



Auckland-wide Network Discharge Consent 2024-2025 Annual Performance Report

Final - December 2025

Watercare 


QUALITY INFORMATION

Document	Annual Performance Report
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Revision History

Rev	Revision Date	Name	Position	Signature
1	27 November 2025	Michiel Jonker	Environmental Care Manager	

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KEY POINTS

This document is a summary of Watercare’s performance against its Auckland-wide Network Discharge Consents. Watercare has eight consents that, when combined, cover Auckland’s wastewater network from Wellsford and Helensville in the north down to Waiuku in the south.

Network performance

The 2024–25 reporting year shows modest but measurable improvement in the wastewater network’s performance compared with recent baselines while also confirming persistent spatial concentrations of risk that require targeted intervention. Headline validated counts for the year were: Total Dry-Weather Overflows (DWOs) 3,637 (–2.2% vs 2023–24; ≈ –10.6% vs the five-year mean), and Total Wet-Weather Overflows (WWOs) 1,049 (no change vs 2023–24; ≈ –23.8% vs the five-year mean). Total uncontrolled overflows (Type-3) and more serious events (Level 3 and 4 events) reduced to 63 (a small year-on-year fall and materially lower than the five-year average). The combined pump station (Type-1) and Type-3 tally was 4,686, down from historical peaks.

Performance drivers and primary causes

- Roots and fats continued to be the leading cause of Type-3 DWOs
- Type-3 WWOs were primarily driven by blockages (roots, fats and rags) together with structural failures such as broken pipes
- Overflow patterns shifted with Type 1 WWOs decreasing, while Type 3 WWOs increased. This indicates a change in how the network fails during storms and highlights the need for catchment-level investigation.

Spatial concentration — high-priority catchments

- The highest frequencies of DWOs remain concentrated in Western Isthmus, Hobson Bay, Henderson Creek and Upper Tāmaki River overall. Hobson Bay, Western Isthmus, Cox’s Bay and Central Auckland recorded the most Engineered Overflow Point (Type-2) DWO alarms
- The highest frequency of Type-1 WWOs were concentrated in Upper Tāmaki River, East Coast Bays and Shoal Bay. Hobson Bay, Henderson Creek, Western Isthmus and Cox’s Bay had the highest Type-2 WWO alarm activity, while East Coast Bays, Upper Tāmaki River, Western Isthmus, Henderson Creek and Hobson Bay recorded the most Type-3 WWOs. The recurring presence of Western Isthmus, Hobson Bay, Upper Tāmaki River and Henderson Creek across categories identifies them as priority catchments for remediation

Interventions delivered and new assets (2024–25)

Completed works and commissioned assets this year strengthen capacity in priority areas and include:

- East Coast Bays Link Sewer (≈2.1 km) - commissioned June 2025; together with planned Mairangi Bay WWPS upgrades this increases transmission capacity and reduces overflow risk at local Engineered Overflow Points (EOPs)
- Warkworth to Snells transfer pipeline (≈5.1 km) — construction completed March 2025 to convey flows to Snells WWTP and cater for local growth
- Northern Interceptor Stage 1 (≈9.7 km) — construction finished; integration to Rosedale WWTP in progress, expected by end-2026
- Local upgrades and pump station completions, Takapu Street WW upgrade (completed June 2025), Taniwha Street WW Pipe Extension (completed July 2024), Rehua Place E76:E93 Stage 2

and Aorere Park WW Pipeline (completed in December 2024), Kahika Rising Main Replacement (completed in January 2025), Judges Bay, Tangaroa Street, Prices Road, Johnson Road, Olga Road and Māngere pump stations (various commissioning dates in 2024–25)

Ōrākei Main Sewer collapse – update

The Ōrākei main sewer relining programme has progressed with the initial section completed in 2024, and further relining works substantially finished. Chambers and site reinstatement are planned next, with final project completion forecast for June 2026. Following a detailed assessment, the inspection frequency for this pipeline has been increased to annual to better monitor asset condition. A comprehensive risk profile assessment is underway to determine renewal needs and prioritise interventions for the entire pipeline section. Additionally, a targeted repair project addressing significant defects identified between MH35 and MH34 in May 2025 is currently in progress, with completion expected by the end of 2026.

Inflow & Infiltration

The 2024–25 inflow and infiltration (I&I) programme continued to focus on reducing stormwater and groundwater inflows that contribute to wastewater network overflows, particularly during wet weather. Targeted investigations—including inspections, smoke testing, CCTV surveys, and flow monitoring—were conducted across high-risk catchments to identify illegal stormwater connections, poorly sealed manholes, and other inflow sources.

A major advancement was the accelerated rollout of smart sensors at manholes and EOPs, providing real-time data to detect inflow events earlier and pinpoint problem areas more precisely. This telemetry, combined with AI-driven filtering and prioritisation, is improving operational response and resource allocation.

Collaboration with Auckland Council’s Healthy Waters progressed with key projects such as the Central Interceptor extension to Point Erin Park and the Herne Bay wastewater collector, currently in design and consenting phase. Completion of stormwater separation works in Point Chevalier and Waterview will also reduce combined sewer overflow risks by diverting surface runoff away from the wastewater system.

These efforts will lead to measurable reductions in inflow volumes and overflow frequency at priority sites going forward. The I&I programme will continue to expand sensor coverage, accelerate remediation, and strengthen partnerships to enhance network resilience.

Network Improvements

The Network Improvements section details Watercare’s efforts to enhance Auckland’s wastewater infrastructure as part of the Wastewater Network Strategy (WWNS), targeting capacity constraints, overflow reduction, and system performance. A region-wide portfolio of capacity and resilience projects is progressing to relieve known constraints, reduce WWO risk and support growth. Key programmes advancing in 2024–25 include:

- Central Interceptor — staged delivery progressing toward commissioning (scheduled completion 2026), providing substantial additional trunk capacity for the Western Isthmus
- Western and Eastern Isthmus Water Quality Improvement Programme (WIWQIP) — multi-stage works continuing through the late 2020s and into the early 2030s to relieve local constraints and reduce overflows in the Western Isthmus catchment

- Northern Interceptor — Stage 1 delivery targeted by end-2026, with complementary catchment upsizing and bottleneck removals underway across Henderson catchment
- Upper Tāmaki River catchment upgrades (Ōtara and Howick capacity works) — staged upgrades in delivery to 2028 and 2031 respectively to increase conveyance and reduce WWO incidence
- Targeted catchment relief in East Coast Bays — a programme of trunk and localised upgrades (including transmission main rerouting and pipe upgrades) largely scheduled for completion in 2026 to reduce peak event overflows
- FY26 Local Wastewater Renewals in Ōrākei — a targeted renewal programme in the Hobson Bay catchment is estimated for completion in 2026 to alleviate overflows

Public Information

Watercare’s public information and engagement activities in 2024–25 have been expanded to raise awareness about wastewater system management and overflow prevention. Key initiatives include the ongoing release of the *Tapped In* newsletter, which has seen increased student participation and broader community reach through schools, local events, and libraries.

New social media campaigns were launched to promote correct wastewater use and system awareness, supported by expanded platforms and higher engagement rates. Additionally, new signage on 14 maintenance vehicles has improved public visibility and reinforced messages about preventing blockages caused by fats, oils, and rags.

From March to June 2025, public engagement was conducted as part of the Metropolitan Servicing Strategy, aimed at raising awareness of wastewater treatment challenges and future water management needs.

In March 2025, Watercare released its first 10-year Business Plan, outlining \$13.8 billion in infrastructure investment focused on managing wastewater overflows, inflow and infiltration, and supporting Auckland’s growth. This plan reinforces Watercare’s commitment to transparency and community involvement.

Digital engagement tools have also been enhanced, including updates to Watercare’s website and the continued use of the *H2Bro* chatbot, improving customer access to information and support related to wastewater services.

Targeted Monitoring Plan

Watercare advanced the Targeted Monitoring Programme (TMP) during 2024/25, completing the first full pilot across freshwater and coastal receiving environments. The TMP has evolved from the original 2015 NIWA framework through several refinements, culminating in a structured pilot focused on high-risk EOPs. The pilot applied routine seasonal monitoring, continuous water-quality sensors, and a broad suite of ecological and physicochemical indicators to identify which parameters respond most reliably to wastewater overflows. Results show that diatoms, nutrients, dissolved oxygen, sediment chemistry, and high-frequency water-quality metrics provide the clearest evidence of potential overflow-related effects in small waterways, while macrofauna, Fluorescence Whitening Agents (FWAs), Pharmaceutical Personal Care Products (PPCPs) and metals may be most informative in marine environments. These findings now provide a defensible basis to streamline the long-term TMP required under Conditions 58–61, with a revised monitoring plan to be prepared and submitted to Auckland Council for certification.

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1 INTRODUCTION

1.1 Background

Watercare Services Limited (Watercare) provides wastewater services across Auckland, from Wellsford in the north to Waiuku in the south. The network that conveys wastewater to Watercare's wastewater treatment plants (WWTPs) can overflow where blockages or surcharging occurs, and Watercare has resource consents for managing the associated discharges to the environment. These consents are known as Watercare's Auckland Wastewater Network Comprehensive Discharge Permits – the Auckland-Wide Network Discharge Consent (NDC). Auckland Council granted the NDC consent in June 2014, and this is the tenth annual report submitted.

The reporting condition is identical over all eight consents and states:

“The Consent Holder shall provide an Annual Wastewater Network Performance Report to the Manager on 30 September of each year. This report shall provide the information specified in the Template for the Annual Network Performance Report (Attachment 9) and include the annually updated version of Attachment 2.”

As such, this annual performance report satisfies condition 57 of:

- DIS60083245 (R/REG/2013/3743) and CST60083182 (R/REG/2013/3755), which are the principal NDC consents
- CST60047515 (COA-63609), which extends the NDC to cover the network in Waiwera
- DIS60047640 (REG-63613), which extends the NDC to cover the network in Parakai
- DIS60047654 (REG-63614), which extends the NDC to cover the network in Helensville
- DIS60050020 (REG-67901), which extends the NDC to cover new pump stations in the Warkworth – Snells Beach catchment
- DIS60083293 (R/REG/2013/3755) and CST60083186 (R/REG/2013/3764) which are specific to the Western Isthmus and the Central Interceptor project

This report provides a summary of overflows that occurred between 1 July 2024 and 30 June 2025, as well as a brief overview of works in each geographical catchment area. These consents do not include Kawakawa Bay, for which the sewerage is transported within a vacuum system, and as such has a separate consent.

1.2 Scope

This report summarises the performance of Watercare's wastewater network, based on the recorded and reported overflows that occurred over the reporting period (1 July 2024 – 30 June 2025). Specifically, this report provides information on the following:

- Wastewater overflows from Watercare's wastewater network, both during times of dry weather and wet weather flows from both types of engineered overflow points:
 - Type-1 pump stations (PS)
 - Type-2 network relief points with telemetry
- Uncontrolled (Type-3) overflows which are typically reported through customer contact
- Watercare's Inflow and Infiltration Programme (I&I)
- The upgrade and improvement projects Watercare undertake to improve network performance
- Additions to the network in response to population growth and urban intensification

- Any updates or additions to the public information made available by Watercare
- An updated Targeted Monitoring Programme (TMP) including presenting the results of the Pilot TMP

1.3 Data limitations

Watercare has strengthened its data collection processes since the previous reporting period. Despite these improvements, some variation remains in the accuracy and level of detail of the information presented, and additional work is required to achieve full consolidation of all Type 2 overflow alarm data.

1.4 Definition, abbreviations and acronyms

This report uses technical language and abbreviations for some terms. Watercare has made all efforts to define these terms in the text. For ease of reading Table 1-1 lists key technical terms and common abbreviations in this document. See Appendix A for further definitions.

Table 1-1 Abbreviations and terms

Abbreviation/ term	Description
Ammonia testing	Semi-quantitative instant tests for ammoniacal nitrogen (NH ₄) and ammonia (NH ₃)
Controlled overflow	A discharge from the network that occurs from an engineered overflow point, either during times of dry or wet weather flows
DWF	Dry-weather flow
DWO	Dry-weather overflow, which occurs when less than or equal to 10 mm of rainfall fell during the preceding 24 hours
EOP	Engineered overflow point
FWA	Fluorescent Whitening Agents – synthetic optical brighteners indicating wastewater contamination.
GWl	Groundwater infiltration
I&I	Inflow and infiltration
Level	The impact of the overflow from Level One spill to Level Five catastrophe (refer to Appendix A for more details)
LIM	Land Information Memorandum
NDC	Auckland-wide Network Discharge Consent
RDII	Rainfall derived inflow and infiltration
Repeat DWO	A Dry Weather Overflow that occurs more than once at the same location within a 12-month period
SCADA	Supervisory Control and Data Acquisition
SMA	Strategic Management Area
Type 1	Engineered overflow points at pump stations
Type 2	Engineered overflow points along the wastewater network

Abbreviation/ term	Description
Type 3	Uncontrolled overflows from the wastewater network
Uncontrolled overflow	A spill from any point in the network, during dry or wet weather flows
WIWQP	Western Isthmus Water Quality Programme
WWO	Wet-weather overflow, which occurs when more than 10mm of rainfall fell during the preceding 24 hours
WWPS	Wastewater pump station
WWTP	Wastewater treatment plant
FOG	Fats Oil Grease

1.5 Watercare's wastewater network

The wastewater network's core function is to convey untreated wastewater from residential, commercial, and industrial sources to a WWTP. These flows consist of dry weather flow and inflow and infiltration.

Dry-weather flow (DWF) includes domestic, commercial, and industrial discharges, along with groundwater infiltration (GWI), which occurs when water from the surrounding groundwater table enters the network. Overflows that occur during relatively dry conditions (≤ 10 mm of rainfall in the previous 24 hours) are classified by Watercare as dry weather overflows (DWOs).

Rainfall-derived inflow and infiltration (RDII) refer to stormwater that enters the wastewater system. This can result from defects such as cracked pipes, unsealed manholes, or incorrectly connected private stormwater drains. When an overflow occurs in wet conditions (> 10 mm of rainfall in the previous 24 hours) or is linked to network surcharging, Watercare records it as a wet weather overflow (WWO).

To reduce the likelihood of wastewater discharging onto private properties, the network has been designed with engineered overflow points (EOPs) that release flows during significant wet weather events. This approach aligns with common international practice among water utilities.

1.6 Sewerage types

There are two key sewerage types within the Auckland region: combined networks, predominantly found in the older areas of metropolitan Auckland, and separated networks.

1.6.1 Combined networks

Combined networks convey both wastewater and stormwater through a single pipe. These systems are designed to overflow during rainfall events, when stormwater inflows reduce available capacity.

To prevent uncontrolled discharges onto private properties or buildings, the network includes dedicated Type-2 EOPs. These EOPs release excess flow via a piped system or designated pathway into the local receiving environment.

Within Watercare's network, combined systems exist only in the Māngere Strategic Management Area (SMA), which encompasses the Māngere WWTP catchment. This area includes parts of the Western Isthmus (served by the Central Interceptor), Cox's Bay, the central business district (CBD),

and Hobson Bay catchments. All other SMAs, including the Rosedale SMA that services much of the North Shore, operate as separated networks.

1.6.2 Separate networks

Separate wastewater networks are designed to carry only dry weather flows, apart from instances where I&I occur. Wet weather impacts on these systems arise from two main sources:

- **Inflow:** water entering the separated wastewater system through incorrectly or illegally connected roof downpipes, surface runoff, flooded manholes, or low-lying gully traps on private properties
- **Infiltration:** groundwater or surface water seeping into the system via cracks, defects, or disjointed joints in pipes. Infiltration affects both public and private wastewater assets

To manage capacity constraints, separate systems are equipped with engineered overflow structures at pump stations (Type-1 EOPs) and at selected points within the network (Type-2 EOPs). These relief points are designed to prevent uncontrolled discharges onto private properties by directing excess flows to locations where risks to public health and the environment are lower.

1.7 Watercare's response to overflows

Watercare manages wastewater overflows through two approaches:

- Immediate response
- Investigation and remediation

An agreed protocol with Auckland Council guides the way overflows are reported and managed. This protocol is set out in the Wastewater Overflow Regional Response Manual which is the Attachment 8 of the consent, originally developed with the Pollution Response and Licensing and Compliance Teams and signed in 2014.

Condition 37 of the Network Discharge Consent permits the consent holder to review and update Attachment 8. Watercare is preparing an update under this provision to reflect its current structure and processes. Since the last reporting period the update has completed an internal review and is now ready for review by the relevant Auckland Council departments, including health teams; once we receive their feedback, we will finalise the update.

1.7.1 Immediate response

Overflows are classified according to risk categories, as outlined in Appendix A. To assess potential sewage contamination, Watercare undertakes ammoniacal nitrogen testing in combination with visual and odour observations. Testing is carried out only when safe to do so and when there is access to the receiving watercourse. Where possible, samples are tested at the point of entry, 5 metres downstream, and 100 metres downstream.

Wastewater overflow pollution events are documented using "wastewater overflow incident assessment forms". For incidents classified as Level 3 and above, the manual requires Watercare to submit these forms to Auckland Council within ten working days.

If ammoniacal nitrogen concentrations exceed 6 ppm, follow-up sampling may be undertaken to confirm that remedial actions have been effective. Additional sampling may also be conducted by Auckland Council's Environmental Health Officers, if required.

1.7.2 Repeat issues

Investigating repeat DWOs can help identify underlying network or operational issues. A repeat DWO is defined as one occurring two or more times within a 12-month period. Overflows caused by blockages are initially addressed on site by contracted service providers following an overflow call-out. To prevent recurrence, service providers typically flush the lines to remove accumulated debris. If the blockage persists, CCTV inspections may be requested to determine the underlying cause. This approach, however, is time-intensive and not cost-effective for every overflow event.

Watercare monitors repeat overflows that remain unresolved within the reporting year and prioritises investigations for issues involving three or more spills over a rolling 24-month period. For dry weather repeats, investigations focus on identifying and mitigating the source of the blockage or damage. For wet weather repeats, the focus is on confirming whether infiltration or capacity constraints, rather than blockages, are contributing factors. Identified issues are escalated to the relevant teams either planning or I&I as they cannot be resolved through routine operational responses.

In some cases, new overflow points may be added to the Type-3 monitoring list (see Appendix C) to improve incident tracking and management.

Watercare monitors key performance metrics and tracks network improvement projects at the catchment level. Considering factors such as geography, population growth, and ongoing development enables Watercare to plan and operate the wastewater network effectively, ensuring reliable service across all Auckland communities.

2.2 Catchment details

This section provides a catchment-by-catchment overview of the wastewater network for the 2024–25 reporting period. For each of the 36 catchments, key network metrics are presented in a table showing how the network has changed compared with the previous fiscal year. Alongside this network overview, each catchment entry also includes brief highlights on network performance, summarising DWOs and WWOs by overflow type for that catchment, together with specific network improvements relevant to that area. For more detailed analysis and trends of DWOs and WWOs, refer to Sections 3 and 4 respectively, and for further information on the improvement projects referenced in each catchment summary, refer to Section 6.

2.2.1 Catchment 1 – Wellsford

Wellsford is a rural township in a predominantly rural pastoral area. Wellsford is approximately 20 km inland from the Kaipara Harbour. Auckland Council has identified two indicative future urban areas to the north and south of Wellsford. Table 2-1 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-1 Wellsford - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	32.33	32.71	+1.2%
Connections	859	868	+1.0%
Connections per km	26.6	26.5	-0.2%
Total EOPs	6	6	0.0%
EOPs/KM pipe	0.19	0.18	-5.2%
Type-1 EOPs (2025 only)	-	6	-
Type-2 EOPs (2025 only)	-	0	-

There was one DWO and one WWO from Type-1 EOPs within this catchment during the reporting period, and no Type-2 overflow alarms were recorded. In addition, Type-3 overflows comprised seventeen DWOs and four WWOs during this period.

This catchment has performed well historically. No significant improvement works were undertaken during the reporting period, and none are planned in the immediate term.

2.2.2 Catchment 2 – Omaha

Omaha is a small beach town on Omaha Bay, north of Auckland city, approximately 75 km north of Auckland on a sandspit that adjoins Tāwharanui Peninsula. The Omaha catchment also includes the Matakana and Point Wells townships. Table 2-2 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-2 Omaha - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	63.11	63.13	+0.0%
Connections	1,797	1,821	+1.3%
Connections per km	28.5	28.8	+1.2%
Total EOPs	9	9	0.0%
EOPs/KM pipe	0.140	0.142	+1.4%
Type-1 EOPs (2025 only)	-	9	-
Type-2 EOPs (2025 only)	-	0	-

There were no recorded Type-1 and Type-2 overflows from the catchment for the reporting period. However, Type-3 overflows comprised eight DWOs and one WWO during this period.

There were no significant improvement works completed, nor imminently planned for the network in this catchment.

2.2.3 Catchment 3 – Warkworth

Warkworth is on the banks of the Mahurangi River at the head of the Mahurangi Harbour. The surrounding land use comprises rural pastoral land in lowland areas and plantation and native forestry in the high country. Auckland Council has identified two indicative future urban areas in Warkworth. Table 2-3 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-3 Warkworth - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	58.68	62.33	+6.2%
Connections	2,249	2,349	+4.4%
Connections per km	38.30	37.76	-1.6%
Total EOPs	5	6	+20.0%
EOPs/KM pipe	0.09	0.08	-11.0%
Type-1 EOPs (2025 only)	-	5	-
Type-2 EOPs (2025 only)	-	1	-

New EOP addition: Type-1 EOP 1644 has been added from the new pump station on Warkworth Street.

There was one Type-1 WWO and fourteen each of Type-2 DWO and WWO alarms recorded for this catchment during the reporting period. Additionally, Type-3 overflows comprised sixteen DWOs and eight WWOs during the same reporting period.

Warkworth's population is projected to grow, and the existing wastewater network is already experiencing capacity constraints. The North-West Growth Servicing Pipeline, currently in the design phase, will address these constraints by supporting planned growth in north Warkworth and reducing the frequency and severity of overflows at the Elizabeth Street EOP. This project is expected to be completed in 2028.

In addition, the Warkworth to Snells Transfer Pipeline project has delivered a new conveyance sewer pipeline from Warkworth to the Snells Wastewater Treatment Plant, including the installation of an

intermediate pump station (Warkworth Street Pump Station). Construction of both the pipeline and the pump station is now fully complete, and the assets are expected to go live before end of 2025.

As an immediate mitigation measure to reduce overflows from the Elizabeth Street EOP, Watercare implemented the Heritage Bridge Over-Pumping Project with construction completed in June 2025. This temporary solution diverts flows downstream of EOP 1540, bypassing the constrained pipeline segment over the bridge and conveying flows further downstream to reduce upstream surcharging at the EOP. This system is expected to go live in August 2025.

2.2.4 Catchment 4 – Snells Beach/Algies Bay

Snells Beach and Algies Bay are adjacent settlements on the east coast of the Mahurangi Peninsula, approximately 10 km from Warkworth. Table 2-3 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-4 Snells Beach/Algies Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	67.17	67.25	+0.1%
Connections	2,153	2,170	+0.8%
Connections per km	32.10	32.27	+0.5%
Total EOPs	9	10	+11.1%
EOPs/KM pipe	0.13	0.15	+14.3%
Type-1 EOPs (2025 only)	-	10	-
Type-2 EOPs (2025 only)	-	0	-

New operational Type-1 EOP 1628 from the Kia Kaha Drive WWPS added to the network.

No Type-1 or Type-2 overflows were recorded in this catchment during the reporting period. However, Type-3 overflows comprised five DWOs and one WWOs during this period for this catchment.

To support growth in the region, the newly constructed Warkworth to Snells conveyance sewer will, once commissioned, provide increased capacity to both the Pump Station and the Wastewater Treatment Plant in Snells.

2.2.5 Catchment 5 – Waiwera

Waiwera is at the southern end of the Waiwera estuary and is characterised by geothermal springs and estuarine environments. The township is surrounded by native bush, small farms, and lifestyle blocks. Table 2-5 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-5 Waiwera - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	4.17	4.17	0.0%
Connections	125	125	0.0%
Connections per km	30.0	29.9	-0.1%
Total EOPs	3	3	0.0%
EOPs/KM pipe	0.72	0.72	0.0%

Metric	2024 Value	2025 Value	Change (%)
Type-1 EOPs (2025 only)	-	3	-
Type-2 EOPs (2025 only)	-	0	-

Historically, there have been no Type-3 WWOs in this catchment. Consistent with this trend, no Type-3 WWOs, nor any Type-1 or Type-2 overflows, were recorded in the catchment during the reporting period. However, there was one Type-3 DWO recorded during the reporting period in the catchment.

‘Waiwera Wastewater Servicing’ project – A new rising main and pump station are being constructed for the Waiwera WWTP. The project is underway and is scheduled for completion by the end of 2026.

2.2.6 Catchment 6 – Helensville

Helensville is on the banks of the Kaipara River at the southern end of the Kaipara Harbour. The Kaipara River catchment comprises mostly rural land uses with plantation forest, horticulture, and lifestyle blocks. The Auckland Council has identified two future urban areas north and south of the current catchment boundary. Table 2-6 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-6 Helensville - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	38.87	39.41	+1.4%
Connections	1,628	1,659	+1.9%
Connections per km	41.9	42.1	+0.5%
Total EOPs	8	8	0.0%
EOPs/KM pipe	0.21	0.20	-3.3%
Type-1 EOPs (2025 only)	-	8	-
Type-2 EOPs (2025 only)	-	0	-

There was one Type-1 WWO and no Type-2 overflows were recorded from the catchment for the reporting period. Additionally, Type-3 overflows comprised eighteen DWOs and four WWOs during the same period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.7 Catchment 7 – Orewa

Orewa is on the Hibiscus Coast, north of the Whangaparāoa Peninsula and approximately 40 km north of central Auckland. The Orewa wastewater network also serves Hatfield Beach and Silverdale North. Parts of the existing urban area are currently undeveloped and therefore not serviced by wastewater infrastructure. Furthermore, there is an extensive area of an indicative future urban area in the west of this catchment. Table 2-7 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-7 Orewa - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	217.3	223.6	+2.9%
Connections	10,191	10,634	+4.3%
Connections per km	46.9	47.5	+1.4%
Total EOPs	12	13	+8.3%
EOPs/KM pipe	0.06	0.05	-10.5%
Type-1 EOPs (2025 only)	-	13	-
Type-2 EOPs (2025 only)	-	0	-

New Type-1 EOP 1607 has been added to the network.

There was one Type-1 WWO, while no Type-2 overflows were recorded from the catchment in the reporting period. In addition, the Type-3 overflows comprised thirty-eight DWOs and five WWOs during the same reporting period.

There are several improvement projects currently underway in this catchment. These include the design of the new Penlink wastewater pipeline, which is in the design phase and scheduled for completion in 2035; the Silverdale West Wastewater Rising Main project, which is in the feasibility stage and planned for completion in 2031; and, as previously noted, the Waiwera Wastewater Servicing project, which will deliver a new conveyance pipeline and pump station for Waiwera. This project is currently in execution and is expected to be completed in 2026.

2.2.8 Catchment 8 – Weiti

The Weiti catchment comprises two town centres: Silverdale and Stillwater. Both Silverdale and Stillwater are on the banks of the Weiti River, with the surrounding land in rural pastoral land use, lifestyle blocks, or forestry. The Weiti Forest lies immediately south of Stillwater town. Table 2-8 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-8 Weiti - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	47.21	48.38	+2.5%
Connections	1,372	1,438	+4.8%
Connections per km	29.10	29.73	+2.2%
Total EOPs	9	10	+11.1%
EOPs/KM pipe	0.19	0.20	+8.7%
Type-1 EOPs (2025 only)	-	10	-
Type-2 EOPs (2025 only)	-	0	-

New EOP addition: Type-1 EOP 1626 confirmed operational at Small Road WWPS.

There were two Type-1 WWOs from the catchment. No Type-2 overflows were reported for the catchment for the reporting period. Additionally, the Type-3 overflows comprised ten DWOs and three WWOs during the same period.

It is expected that both the Penlink Wastewater Pipeline and Silverdale West Wastewater Rising Main projects will improve performance in this catchment also.

2.2.9 Catchment 9 – Whangaparāoa

Whangaparāoa Peninsula is 25 km north of Auckland, extending east for 11 km into the Hauraki Gulf. The town of Whangaparāoa sits on the peninsula's south-western shore. Table 2-9 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-9 Whangaparāoa - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	293.17	293.60	+0.1%
Connections	12,266	12,375	+0.9%
Connections per km	41.80	42.15	+0.8%
Total EOPs	21	22	+4.8%
EOPs/KM pipe	0.070	0.074	+7%
Type-1 EOPs (2025 only)	-	21	-
Type-2 EOPs (2025 only)	-	1	-

New EOP: Confirmed newly identified Type-2 EOP 1652 at 25 Sundown Avenue.

There were six Type-1 WWOs and no Type-2 overflows were recorded from the catchment for the reporting period. In addition, the Type-3 overflows comprised eighty-four DWOs and forty-six WWOs during the same period.

There are several improvement projects underway in this catchment to enhance network resilience and address capacity constraints associated with future growth. These include the Hobbs Bay Pumping Station Contingency project, which is currently in the design phase and scheduled for completion in 2027; the Stanmore Pump Station and Rising Main Upgrade, also in the design phase and slated for completion in 2029; and the Gulf Harbour Wastewater Servicing project, which is in the execution phase and expected to be completed by May 2026. In addition, the Penlink wastewater pipeline is expected to provide further capacity benefits to this catchment.

2.2.10 Catchment 10 – Long Bay

The Long Bay catchment is on Auckland's North Shore, with the Okura River to the north and Long Bay Beach to the east. The catchment is predominantly urban, and at present, the wastewater system covers the residential suburbs and Okura. Table 2-10 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-10 Long Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	76.90	78.68	+2.3%
Connections	3,547	3,724	+5.0%
Connections per km	46.10	47.33	+2.7%
Total EOPs	7	7	0.0%
EOPs/KM pipe	0.09	0.08	-1.1%
Type-1 EOPs (2025 only)	-	4	-
Type-2 EOPs (2025 only)	-	3	-

No Type-1 overflows were recorded from this catchment during the reporting period. One Type-2 DWO and two Type-2 WWOs were recorded. Additionally, Type-3 overflows comprised thirty-four DWOs and three WWOs during the same reporting period.

The Torbay Network Upgrades programme is looking to resolve multiple overflow issues across the East Bay Coast and Long Bay catchments. The project is still under initial scoping phase and is expected to complete end of 2031.

2.2.11 Catchment 11 – East Coast Bays

The East Coast Bays catchment is on Auckland's North Shore. Taiaotea Creek contains the commercial areas of Browns Bay that comprise a significant proportion of the lower catchment, with the rest of the lower catchment being residential. The upper catchment, Wairau Creek, also contains residential land use but has a significant proportion of commercial land use to the west of the Northern Motorway. Table 2-11 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-11 East Coast Bays - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	507.89	510.73	+0.6%
Connections	30,621	31,150	+1.7%
Connections per km	60.30	60.99	+1.2%
Total EOPs	32	33	+3.1%
EOPs/KM pipe	0.060	0.064	+7.6%
Type-1 EOPs (2025 only)	-	26	-
Type-2 EOPs (2025 only)	-	7	-

New EOP: Confirmed Type 2 EOP 1647 installed in February 2025. There were eleven Type-1 WWOs, four Type-2 DWOs, and seventeen Type-2 WWOs recorded for this catchment during the reporting period. Additionally, Type-3 overflows comprised two-hundred and eighty-six DWOs and one hundred and one WWOs during the same period.

Given the high number of overflows reported in this catchment, improving network performance is a high priority. A range of ongoing and recently completed projects are focused on reducing overflows, increasing network capacity, and improving water quality in swimmable areas.

The key capacity-enhancing project - the East Coast Bays Link Sewer Upgrade - was completed in June 2025. This is expected to significantly reduce overflow frequency and improve overall network resilience in the catchment.

Additional projects currently underway, or projects in neighbouring areas that will have an impact on this catchment, include:

- Rerouting of transmission (trunk) system main associated with Alma pump station -Execution phase; expected completion early 2026
- Jonathan Place Pipe Upgrades – Execution phase; expected completion end of 2026
- Wairau Valley Diversion Project – Feasibility phase; expected completion in 2032
- Mairangi Bay Gravity Wastewater Sewer Upgrade – Design phase; expected completion end of 2026

- Wairau Wastewater Pump Station Upgrades – Feasibility phase; expected completion in 2032
- Torbay Wastewater Network Upgrades – Scoping phase; expected completion in 2031
- Forrest Hill Wastewater Catchment Diversion – Feasibility phase; expected completion in 2028
- Northcote–Chatswood Wastewater Network Upgrades – Design phase; expected completion in 2027
- WWT TARP Wairau Valley Branch TS – Design phase; expected completion in August 2026
- Linwood Avenue Pipe Upgrades – Scoping phase; expected completion in 2029

2.2.12 Catchment 12 – Devonport-Takapuna

The Devonport-Takapuna catchment is on Auckland's North Shore and comprises the peninsula's eastern and southern coastal strips. There are no notable surface watercourses within the catchment, and all discharges are to the marine environment. Table 2-12 for the key metrics for the catchment.

Table 2-12 Devonport-Takapuna - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	36.49	36.57	+0.2%
Connections	2,474	2,494	+0.8%
Connections per km	67.80	68.19	+0.6%
Total EOPs	7	7	0.0%
EOPs/KM pipe	0.19	0.19	+0.7%
Type-1 EOPs (2025 only)	-	6	-
Type-2 EOPs (2025 only)	-	1	-

There were five Type-1 WWOs, three Type-2 DWOs and six Type-2 WWOs recorded for this catchment during the reporting period. In addition, the Type-3 overflows comprised twenty-one DWOs and eight WWOs during the reporting period.

The Wairau Pump Station Upgrade project is progressing as planned and is scheduled for completion in 2032. Once delivered, it is expected to significantly reduce high-volume overflows in the area.

2.2.13 Catchment 13 – Shoal Bay

The Shoal Bay catchment is on Auckland's North Shore and is predominantly urban, with significant residential development. The Chelsea Sugar factory is a notable large industrial site within the catchment. Table 2-13 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-13 Shoal Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	288.11	289.24	+0.4%
Connections	17,409	17,636	+1.3%
Connections per km	60.40	60.97	+1.0%
Total EOPs	35	35	0.0%
EOPs/KM pipe	0.120	0.121	+0.8%
Type-1 EOPs (2025 only)	-	23	-
Type-2 EOPs (2025 only)	-	12	-

There were eleven Type-1 WWOs, one Type-2 DWO and eight Type-2 WWOs recorded for this catchment during the reporting period. Additionally, Type-3 overflows comprised one-hundred and ninety DWOs and forty WWOs during the reporting period.

Several improvement projects are planned for the Shoal Bay catchment to reduce overflows from multiple EOPs and to minimise uncontrolled overflows. The renewal and upgrade of the remaining rising main, along with the upgrade of the Lake Road Northcote Pump Station, is currently in the execution phase and is expected to be completed by the end of 2025. In addition, the Northcote–Chatswood Wastewater Network Upgrades (in the design phase, with completion scheduled for 2027) and the Wairau Wastewater Pump Station Upgrades (scheduled for completion in 2032) are expected to further reduce overflow frequency and improve network performance across the catchment.

2.2.14 Catchment 14 – Upper Harbour North

The Upper Harbour North catchment is on Auckland's North Shore. This catchment contains a mix of urban and rural land uses, including many intensifying residential areas. There are widespread subdivisions, medium-density developments in specially zoned areas, and infill growth throughout this catchment. Table 2-14 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-14 Upper Harbour North - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	342.75	348.03	+1.5%
Connections	14,676	14,814	+0.9%
Connections per km	42.80	42.56	-0.6%
Total EOPs	20	20	0.0%
EOPs/KM pipe	0.060	0.057	-4.2%
Type-1 EOPs (2025 only)	-	20	-
Type-2 EOPs (2025 only)	-	0	-

There were four Type-1 WWOs and two Type-1 DWOs recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised one-hundred and seven DWOs and twenty-one WWOs during the reporting period.

One of the key improvement projects in this catchment aimed at alleviating capacity constraints and reducing both controlled and uncontrolled overflows include the 'Unsworth Heights Diversion' project which is currently in the feasibility phase and is scheduled for completion in 2027. In addition, the East Coast Bays Link Sewer Upgrade was completed in June 2025 and is expected to contribute to reduced overflow frequency within the catchment in the next reporting period.

2.2.15 Catchment 15 – Upper Harbour South

The Upper Harbour South catchment is on Auckland's North Shore. Land use within the Upper Harbour South catchment is predominantly residential, with minor commercial activities and several schools. Table 2-15 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-15 Upper Harbour South - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	223.57	226.24	+1.2%
Connections	13,523	13,753	+1.7%
Connections per km	60.50	60.79	+0.5%
Total EOPs	16	16	0.0%
EOPs/KM pipe	0.0700	0.0707	1.0%
Type-1 EOPs (2025 only)	-	13	-
Type-2 EOPs (2025 only)	-	3	-

There was one Type-1 WWO and six Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised one-hundred and forty-nine DWOs and forty-two WWOs during the reporting period.

The Kahika Rising Main Replacement project was completed in June 2025. The Kahika Pump Station Upgrades and Rising Main Extension are currently in the execution phase and are expected to be completed by April 2026. Also, the Beach Haven Diversion project is in feasibility phase and expected to finish only in 2033. Together, these upgrades will support future growth and contribute to reducing overflow occurrences within the catchment.

2.2.16 Catchment 16 – Upper Harbour West

The Upper Harbour West catchment is on the western side of Waitematā Harbour. Land use within the catchment is predominantly residential on the south-eastern side of Hobsonville Road and at Herald Island. The remaining area comprises lifestyle blocks and farmland on the northwest of the catchment and horticultural land use in the northeast towards Hobsonville. Parts of the existing urban area are currently not serviced, but some areas identified as a future urban area. Table 2-16 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-16 Upper Harbour West - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	180.34	184.71	+2.4%
Connections	9,563	10,090	+5.5%
Connections per km	53.0	54.6	+3.0%
Total EOPs	15	18	+20.0%
EOPs/KM pipe	0.080	0.081	+1.5%
Type-1 EOPs (2025 only)	-	18	-
Type-2 EOPs (2025 only)	-	0	-

New EOPs: Type-1 EOPs 1636, 1624 & 1658 confirmed operational. There was one Type-1 WWO recorded from this catchment during the reporting period. No Type-2 overflow alarms were recorded. Additionally, Type-3 overflows comprised forty-four DWOs and seven WWOs during the reporting period.

The Northern Interceptor Stage – 1 is targeted to reduce overflows in this catchment through improved conveyance to the Rosedale Wastewater Treatment Plant. Construction of Northern Interceptor – Stage 1 has been completed, with commissioning scheduled for completion by the end of 2026. The Stages 2 and 4 of this are to be completed in 2029 and 2036 respectively which extends

the interceptor line further to the west. The two additional projects currently planned for this catchment to support future development and growth, include:

- Whenuapai & Redhills Wastewater Servicing – in the execution phase, with completion expected in 2028
- Brighams Creek, Redhills Pump Station and Sewer Upgrade 1 – in the feasibility phase, with completion expected in 2033

2.2.17 Catchment 17 – Henderson Creek

The Henderson Creek catchment is to the west of central Auckland. The catchment contains several notable watercourses, including the Waikumete Stream and Oratia Stream, converging on the Henderson Creek. Land use within the catchment is predominantly residential, with commercial areas. Light industrial uses concentrate in the Henderson Valley and Lincoln areas. Table 2-17 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-17 Henderson Creek - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	785.59	793.57	+1.0%
Connections	43, 886	44, 956	+2.4%
Connections per km	55.9	56.7	+1.3%
Total EOPs	17	17	0.0%
EOPs/KM pipe	0.020	0.021	7.1%
Type-1 EOPs (2025 only)	-	3	-
Type-2 EOPs (2025 only)	-	14	-

There were six Type-1 WWOs, four Type-2 DWOs and sixty-three Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised three-hundred and sixty-nine DWOs and ninety-seven WWOs during the reporting period.

The Northern Interceptor project – stages 1, 2, and 4, once live, will alleviate capacity constraints in Henderson Creek by providing additional capacity in the Western Interceptor. Currently, stage 1 construction is complete, and commissioning is to be completed by end of 2026. Stages 2 and 4 are expected to be completed in 2029 and 2036, delivering substantial benefits to the catchment.

Additionally, the Takapu Street project was completed in June 2025 and is expected to address several uncontrolled overflows in the catchment, with results to be reflected in the next reporting period. Also, the Te Atatū North Wastewater Upgrades, Glen Eden Branch Sewer Upgrade, and Swanson Branch Sewer Upgrade are currently in the scoping phase for implementation. These projects are planned to support future growth and reduce overflows, with an estimated completion date of 2040.

2.2.18 Catchment 18 – Whau River

The Whau River catchment covers approximately 25 km² in the western part of the Auckland Isthmus. The catchment's current land use is predominantly residential, with substantial light industrial and commercial development pockets. Table 2-18 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-18 Whau River - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	362.80	367.62	+1.3%
Connections	22,261	22,758	+2.2%
Connections per km	61.0	61.9	+1.5%
Total EOPs	18	18	0.0%
EOPs/KM pipe	0.05	0.048	-2%
Type-1 EOPs (2025 only)	-	16	-
Type-2 EOPs (2025 only)	-	2	-

There was one Type-1 WWO recorded from this catchment during the reporting period. No Type-2 overflow alarms were recorded. Additionally, Type-3 overflows comprised two-hundred and twelve DWOs and fifty-seven WWOs during the reporting period.

The Northern Interceptor, Te Atatū North Wastewater Upgrades, Glen Eden Branch Sewer Upgrade, and Swanson Branch Sewer Upgrade is expected to alleviate capacity constraints in this catchment also.

2.2.19 Catchment 19 – Laingholm

The Laingholm catchment is in the west of Auckland, along the northern border of the Manukau Harbour. Land use in the catchment is characterised by residential living in a bush environment, with regenerating bush in the Waitākere Ranges Regional Park bordering the catchment to the west. Table 2-19 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-19 Laingholm - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	103.74	103.74	0.0%
Connections	3003	3008	+0.2%
Connections per km	28.9	29.0	+0.3%
Total EOPs	2	2	0.0%
EOPs/KM pipe	0.020	0.019	-3.6%
Type-1 EOPs (2025 only)	-	2	-
Type-2 EOPs (2025 only)	-	0	-

No Type-1 or Type-2 overflows were recorded from this catchment during the reporting period. However, Type-3 overflows comprised forty-seven DWOs and two WWOs during the reporting period.

No major works or improvement projects have taken place during the reporting period nor imminently planned for the network here.

2.2.20 Catchment 20 – Cox's Bay

The Cox's Bay catchment covers approximately 25 km² in the western part of the central Auckland Isthmus. The catchment area is highly developed, being residential, with pockets of open space dotted throughout the catchment. The bulk of wastewater network in the Cox's Bay area uses a combined stormwater-sewer system, and the catchment has a correspondingly high number of Type

2 EOPs. Table 2-20 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-20 Cox's Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	98.38	98.66	+0.3%
Connections	7,510	7,534	+0.3%
Connections per km	76.30	76.37	+0.1%
Total EOPs	60	59	-1.7%
EOPs/KM pipe	0.61	0.59	-1.96%
Type-1 EOPs (2025 only)	-	5	-
Type-2 EOPs (2025 only)	-	54	-

EOP removed: Type-2 EOP 196 decommissioned in November 2024 at 8 Sarsfield.

No Type-1 overflows were recorded while there were one-hundred and five Type-2 DWOs and thirty-nine Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised sixty-five DWOs and seven WWOs during the reporting period.

Because much of the Cox's Bay catchment operates on a combined network, higher overflow frequencies are expected. To address this, a substantial programme of network improvements is underway. The Central Interceptor link sewers and the WIWQIP Oakley (CC9 - Keith Hay Park) collector sewers are scheduled for completion in 2026.

Further improvements under the Western and Eastern Isthmus Water Quality Improvement Programme (WIWQIP) include:

- Westmere Wastewater Catchment Improvement Works – expected completion in 2031
- Grey Lynn Park Stage 1 and Branch 6 Collector – expected completion in 2031
- Branch 5 Herne Bay Upgrade – expected completion in 2028
- Pt Chevalier Catchment Improvement Works – expected completion in 2029
- Avondale Whau CC6 Stage 1 to PS25 Shaft – expected completion in 2029
- Waterview Stage 2 of Avondale Br Sewer CC6 – expected completion in 2028
- Avondale CC7A and CC7A1 to Miranda Shaft – expected completion in 2027
- Avondale–Lynfield Branch to Haycock Shaft – expected completion in 2033
- Grey Lynn Tunnel – construction completed, commissioning to finish in 2026
- Link Sewer to Kelmarna Avenue – expected completion in 2032
- Freemans Bay Wastewater Upgrade – expected completion in 2029
- Oakley Wastewater Catchment Improvement Works – expected completion in 2029

2.2.21 Catchment 21 – Central Auckland (CBD)

The Central Auckland (CBD) catchment is approximately 9 km², extending from Westhaven Marina in the west to Mechanics Bay in the east, and bordered by the Waitematā Harbour in the north. The catchment is characterised by commercial development (low and high-rise office blocks and retail shops), cafes and restaurants, industrial activities (light, automotive), hotels, low, medium, and high-density residential living, entertainment complexes, car parks, churches, and reserve areas. The harbour edge also incorporates port, ferry, and marina activities. Significant open spaces within the

catchment include the Auckland Domain, Albert Park, and Victoria Park. Table 2-21 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-21 Central Auckland (CBD) - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	112.79	113.42	+0.6%
Connections	4,429	4,444	+0.3%
Connections per km	39.30	39.18	-0.3%
Total EOPs	65	64	-1.5%
EOPs/KM pipe	0.58	0.56	-2.7%
Type-1 EOPs (2025 only)	-	4	-
Type-2 EOPs (2025 only)	-	60	-

EOP removed: Type-2 EOP 1020 at 27 New Street decommissioned in November 2024.

No Type-1 overflows were recorded from this catchment during the reporting period. However, there were forty-three Type-2 DWOs and six Type-2 WWOs. Additionally, Type-3 overflows comprised sixty-nine DWOs and thirty-two WWOs during the reporting period.

The wastewater network in the CBD includes a mix of combined areas, partially separated areas, and fully separated stormwater and wastewater systems. As a result, the catchment contains a disproportionately high number of EOPs relative to its size.

The commissioning of the Judges Bay Pump Station in June 2025 addresses flows previously managed by the now-decommissioned Branch 3B Judges Bay transmission line and is expected to improve harbour water quality by reducing uncontrolled overflows in the area. In addition, the Queen Street Diversion project - currently on track and targeting overflow reduction across multiple EOPs in central Auckland - is scheduled for completion in 2027.

2.2.22 Catchment 22 – Hobson Bay

The Hobson Bay catchment is in the central part of the Auckland Isthmus immediately to the east of the CBD. The catchment is mainly residential, with some business and industrial activity centred around Newmarket and Parnell. The wastewater network in this catchment is a mix of combined areas, separated from historically combined sewers and developed as separated areas. This mix is reflected in the number of EOPs in the catchment. Table 2-22 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-22 Hobson Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	444.84	446.71	+0.4%
Connections	31,407	31,632	+0.7%
Connections per km	70.60	70.81	+0.3%
Total EOPs	97	98	+1.0%
EOPs/KM pipe	0.22	0.21	-1.2%
Type-1 EOPs (2025 only)	-	19	-
Type-2 EOPs (2025 only)	-	79	-

New EOP: Type-1 EOP 1655 installed in April 2025 at Judges Bay Rd WWPS.

There were six Type-1 WWOs, two-hundred and fifty-one Type-2 DWOs, and one-hundred and seventy-three Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised two-hundred and seventy-four DWOs and sixty-three WWOs during the reporting period.

The Newmarket Gully project is a major initiative designed to substantially increase storage capacity within the combined network, thereby reducing overflows from multiple engineered overflow points (EOPs) as well as uncontrolled overflow locations. This project is estimated to be completed in 2030.

Additional wastewater improvement projects in the catchment include:

- Clonbern Road Wastewater Diversion – expected completion in 2026
- FY26 Local Wastewater Renewals – Ōrākei – estimated completion in 2026
- Ōrākei Main Sewer (Auckland Zoo) – estimated completion in December 2026

2.2.23 Catchment 23 – Onehunga

The Onehunga catchment covers approximately 23 km² on the northern shores of Māngere Inlet and the Manukau Harbour. The catchment is heavily developed, with a large business and industrial activity area along the coastal margins of Māngere Inlet and Onehunga Township. Further to the north, the catchment is mainly residential and open space zoned land. Table 2-23 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-23 Onehunga - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	265.81	269.71	+1.5%
Connections	18,235	18,373	+0.8%
Connections per km	68.60	68.12	-0.7%
Total EOPs	19	19	0.0%
EOPs/KM pipe	0.07	0.07	0.0%
Type-1 EOPs (2025 only)	-	18	-
Type-2 EOPs (2025 only)	-	1	-

There were two Type-1 DWOs and four Type-1 WWOs recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised one-hundred and thirty-two DWOs and twenty-eight WWOs during the reporting period.

There is one network improvement project currently planned in the Onehunga catchment, intended to ensure levels of service are maintained for a large-scale Kainga Ora development. This project is estimated to be completed in 2028.

2.2.24 Catchment 24 – Māngere

The Māngere catchment is to the south of central Auckland and contains the suburbs of Otahuhu, Māngere East, Māngere, and Māngere Bridge. Several watercourses in the area, including Tararata Creek, Harania Creek, and Tui Creek, converge in the Māngere Inlet. Land use within the catchment is mainly urban, with commercial/industrial services focused around the Māngere Inlet. Table 2-24 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-24 Māngere - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	328.47	335.94	+2.3%
Connections	13,736	13,952	+1.6%
Connections per km	41.80	41.53	-0.6%
Total EOPs	20	20	0.0%
EOPs/KM pipe	0.06	0.06	0.0%
Type-1 EOPs (2025 only)	-	15	-
Type-2 EOPs (2025 only)	-	5	-

There were three Type-1 WWOs recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised one-hundred and nine DWOs and thirty WWOs during the reporting period.

Several network improvement projects are currently underway in the Māngere catchment to support growth, address capacity constraints, and reduce wastewater overflows through new pipeline infrastructure. These include:

- Archboyd Avenue Pump Station and Associated Pipelines – estimated completion in 2031
- KO – Māngere Wastewater Improvements – estimated completion in 2040
- HLC Māngere Wastewater Improvements Programme – estimated completion in 2028

Two projects were completed during the reporting period: ‘DPCIN Māngere Pump Station PS86’, and ‘Rehua Place E76:E93 Stage 2 and Aorere Park Wastewater Pipeline’, both of which were targeted at reducing overflows within the catchment.

2.2.25 Catchment 25 – Lower Tāmaki River

The Lower Tāmaki River catchment is in the east of Auckland and covers areas around the Tāmaki River Estuary. Land use within the bay is predominantly residential, with commercial/ industrial land areas in the southwest of the catchment. There has recently been significant residential development adjacent to Mt Wellington in the former Mt Wellington quarry. Table 2-25 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-25 Lower Tāmaki River - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	315.37	319.98	+1.5%
Connections	19,393	19,789	+2.0%
Connections per km	61.50	61.85	+0.6%
Total EOPs	24	24	0.0%
EOPs/KM pipe	0.08	0.07	-6.24%
Type-1 EOPs (2025 only)	-	15	-
Type-2 EOPs (2025 only)	-	9	-

There were three Type-1 WWOs and four Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised one-hundred and eighty-four DWOs and forty-eight WWOs during the reporting period.

There are several ongoing projects are planned for the catchment to support future growth and reduce both controlled and uncontrolled overflows. These include:

- Dunkirk Stage 2 Rising Main – in the execution phase; expected completion in 2028
- WWT TARP Panmure Basin Rising Main – in execution; expected completion April 2026
- WWT TARP Panmure Basin WWPS – in execution; expected completion in 2026
- PS14 Upgrade (Tāmaki) – in the design phase; expected completion in 2027
- Castledine Catchment Diversion to EIN – in the design phase; expected completion by the end of 2026

Additionally, the Taniwha Street Wastewater Pipe Extension was completed in July 2024 to support growth in the region.

2.2.26 Catchment 26 – Upper Tāmaki River

The Upper Tāmaki River catchment is in the southeast of Auckland. It is the largest geographical catchment of the Auckland wastewater network. Land use within the catchment includes large industrial/commercial land areas around Mt Wellington and Richmond and significant areas of East Tāmaki. There are also areas of the catchment which have very recently developed through expansion and growth. Table 2-26 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-26 Upper Tāmaki River - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	1,150.45	1,162.28	+1.0%
Connections	62,480	64,052	+2.5%
Connections per km	54.30	55.11	+1.5%
Total EOPs	55	57	+3.6%
EOPs/KM pipe	0.05	0.04	-5.35%
Type-1 EOPs (2025 only)	-	43	-
Type-2 EOPs (2025 only)	-	14	-

New EOPs: Type-1 EOPs 1653 & 1654 confirmed operational.

There were fourteen Type-1 WWOs, one Type-2 DWO and twelve Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised four-hundred and thirty-seven DWOs and hundred and one WWOs during the reporting period.

There are three ongoing projects in the catchment aimed at reducing overflows and supporting growth in the region. These include the Ōtara Catchment Wastewater Capacity Upgrades, which are expected to be completed in 2028; the Ōtara Local Network Upgrade, also scheduled for completion in 2028; and the Howick Wastewater Catchment System Upgrades, which are planned for completion in 2031.

2.2.27 Catchment 27 – Cockle Bay

The Cockle Bay catchment is along the eastern coast of the Bucklands Beach peninsula. Land use is predominantly low to medium density residential, with pockets of open space and local retail and commercial areas. There are no industrial sites within the catchment. Table 2-27 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-27 Cockle Bay - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	106.87	106.97	+0.1%
Connections	5,035	5,050	+0.3%
Connections per km	47.10	47.21	+0.2%
Total EOPs	7	7	0.0%
EOPs/KM pipe	0.07	0.06	-6.5%
Type-1 EOPs (2025 only)	-	7	-
Type-2 EOPs (2025 only)	-	0	-

There were three Type-1 WWOs recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised twenty-two DWOs and eight WWOs during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.28 Catchment 28 – Puhinui

The Puhinui catchment is about 18 km southeast of Auckland city centre, to the northeast of Manukau Harbour. The catchment consists predominantly of residential, industrial, and commercial land uses, with some land in horticulture. The Auckland Airport is to the west of the catchment, on the northern side of the Manukau Harbour. Table 2-28 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-28 Puhinui - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	400.96	405.56	+1.1%
Connections	19,682	20,106	+2.2%
Connections per km	49.10	49.58	+1.0%
Total EOPs	13	13	0.0%
EOPs/KM pipe	0.030	0.034	+15.0%
Type-1 EOPs (2025 only)	-	11	-
Type-2 EOPs (2025 only)	-	2	-

No Type-1 overflows were recorded while six Type-2 WWOs were recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised one-hundred and fifty-seven DWOs and eighteen WWOs during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.29 Catchment 29 – Pahurehure Inlet

The Pahurehure Inlet catchment is in south Auckland, with commercial areas in Manurewa and Papakura and a large industrial/commercial zone in Takanini. Substantial growth is expected in this region. Table 2-29 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-29 Pahurehure Inlet - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	708.41	725.27	+2.4%
Connections	15,067	15,523	+3.0%
Connections per km	21.3	21.4	+0.5%
Total EOPs	19	22	+15.8%
EOPs/KM pipe	0.03	0.02	-8.0%
Type-1 EOPs (2025 only)	-	15	-
Type-2 EOPs (2025 only)	-	7	-

New EOP additions: Type-1 EOPs 1593, 1610 & 1625 confirmed operational.

There was one Type-1 WWO recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised one-hundred and one DWOs and fifty-six WWOs during the reporting period.

To support growth in the region, two long-term projects are currently in design to accommodate new developments and divert flows away from the constrained Southern Interceptor. These are the Southern Auckland Wastewater Servicing Scheme and the Drury West Transmission Sewer, both scheduled for completion in 2030.

2.2.30 Catchment 30 – Oneroa

Waiheke Island is in the Hauraki Gulf, approximately 17 km east of the Auckland CBD. Only a small proportion of the island, comprising Oneroa, Blackpool, and part of Surfdale, is currently serviced. Table 2-30 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-30 Oneroa - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	3.08	3.08	0%
Connections	37	38	+2.7%
Connections per km	12.0	12.3	+2.8%
Total EOPs	1	1	0.0%
EOPs/KM pipe	0.320	0.324	+1.5%
Type-1 EOPs (2025 only)	-	1	-
Type-2 EOPs (2025 only)	-	0	-

No controlled or uncontrolled network overflows were recorded from this catchment during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.31 Catchment 31 – Beachlands-Maraetai

The Beachlands-Maraetai catchment includes two seaside suburbs located about 23 km east of central Auckland. Land use within the catchment is predominantly residential. Beachlands has marina facilities at Pine Harbour Marina, and Maraetai has a small boat ramp and breakwater. Table 2-31 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-31 Beachlands-Maraetai - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	111.06	111.31	+0.2%
Connections	3,416	3,474	+1.7%
Connections per km	30.8	31.2	+1.3%
Total EOPs	11	11	0.0%
EOPs/KM pipe	0.100	0.098	-1.1%
Type-1 EOPs (2025 only)	-	11	-
Type-2 EOPs (2025 only)	-	0	-

There was one Type-1 WWO recorded from this catchment during the reporting period. No Type-2 overflows were recorded. Additionally, Type-3 overflows comprised seven DWOs and five WWOs during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.32 Catchment 32 – Clarks Beach

Clarks Beach is a small coastal village located on the south-western shore of the Manukau Harbour between the Waiuku River and Clarks Creek. Land use includes residential properties, the Clarks Beach Golf Club, Clarks Beach Camping Ground, and surrounding rural activities. Table 2-32 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-32 Clarks Beach - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	28.65	32.01	+11.7%
Connections	810	840	+3.7%
Connections per km	28.30	26.25	-7.3%
Total EOPs	13	13	0.0%
EOPs/KM pipe	0.45	0.40	-9.7%
Type-1 EOPs (2025 only)	-	12	-
Type-2 EOPs (2025 only)	-	1	-

No Type-1 or Type-2 overflows were recorded from this catchment during the reporting period. However, Type-3 overflows comprised eight DWOs and two WWOs during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.33 Catchment 33 – Waiuku

Waiuku Township is at the southern end of the Waiuku Estuary, a tidal arm of the Manukau Harbour. The Waiuku Catchment is 420 ha of predominantly residential and rural land, with some light commercial land. The catchment has one golf course, eight parks of significant size, and several schools. Table 2-33 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-33 Waiuku - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	70.13	70.31	+0.3%
Connections	2,884	2,913	+1.0%
Connections per km	41.10	41.43	+0.8%
Total EOPs	12	12	0.0%
EOPs/KM pipe	0.17	0.17	0.0%
Type-1 EOPs (2025 only)	-	12	-
Type-2 EOPs (2025 only)	-	0	-

No Type-1 or Type-2 overflows were recorded from this catchment during the reporting period. However, Type-3 overflows comprised eleven DWOs and five WWOs during the reporting period.

There were no significant improvement works completed, nor imminently planned for the network here.

2.2.34 Catchment 34 – Pukekohe

The Pukekohe catchment is on the southern edge of the Auckland Region, approximately 50 km south of central Auckland. The catchment comprises the Pukekohe urban area, Patumahoe Township and the Paerata Business Park to the north, and Buckland and Tuakau townships to the south. Table 2-34 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-34 Pukekohe - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	230.42	233.61	+1.4%
Connections	8,857	9,155	+3.4%
Connections per km	38.40	39.19	+2.1%
Total EOPs	19	19	0.0%
EOPs/KM pipe	0.080	0.081	+1.6%
Type-1 EOPs (2025 only)	-	19	-
Type-2 EOPs (2025 only)	-	0	-

There was one Type-1 DWO and one Type-1 WWO recorded from this catchment during the reporting period. No Type-2 overflow alarms were recorded. Additionally, Type-3 overflows comprised thirty-two DWOs and nine WWOs during the reporting period.

To support population growth in the area, two ongoing projects are underway to ensure capacity for new developments: the Pukekohe Transmission Sewer – Isabella Pump Station, expected to be completed in May 2028, and the Jutland Pump Station Diversion in Pukekohe, scheduled for completion in July 2026. In addition, the Paerata wastewater servicing project is planned for completion in 2030.

2.2.35 Catchment 35 – Kumeū-Huapai-Riverhead

The Kumeū-Huapai-Riverhead catchment covers approximately 1,270 ha in rural northwest Auckland. There are no existing EOPs in the catchment. However, Watercare has plans for engineered overflow points to cater for future growth identified in the Auckland Plan and proposed

Auckland Unitary Plan. Table 2-35 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-35 Kumeū-Huapai-Riverhead - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	81.42	81.44	+0.0%
Connections	3,102	3,230	+4.1%
Connections per km	38.10	39.66	+4.1%
Total EOPs	0	0	N/A
EOPs/KM pipe	0	0	N/A
Type-1 EOPs (2025 only)	-	N/A	-
Type-2 EOPs (2025 only)	-	0	-

Since there are no EOPs in this catchment no Type-1 or Type-2 overflows are recorded from this catchment. However, Type-3 overflows comprised five DWOs with no WWOs during the reporting period.

The Northern Interceptor Stage 1 is the only current network project improving performance within this catchment and is due to be completed in 2026.

2.2.36 Catchment 36 – Western Isthmus

The Western Isthmus catchment is to the west of central Auckland, with predominantly residential land use. The Central Interceptor, including the additional extension and collector sewers are currently underway to improve performance of the wastewater network here. Table 2-36 compares core network metrics for 2024 and 2025 and highlights changes over the past year.

Table 2-36 Western Isthmus - Network metrics: year-on-year comparison

Metric	2024 Value	2025 Value	Change (%)
Pipe Length (km)	630.24	640.38	+1.6%
Connections	45,035	45,795	+1.7%
Connections per km	71.5	71.5	+0.0%
Total EOPs	119	120	+0.8%
EOPs/KM pipe	0.19	0.18	-2.1%
Type-1 EOPs (2025 only)	-	11	-
Type-2 EOPs (2025 only)	-	109	-

New EOP: Type-1 EOP 1648 confirmed operational.

There were six Type-1 WWOs, one-hundred and forty-seven Type-2 DWOs, and fifty-four Type-2 WWOs recorded from this catchment during the reporting period. Additionally, Type-3 overflows comprised three-hundred and sixty-two DWOs and hundred WWOs during the reporting period.

Several projects under the Western and Eastern Isthmus Water Quality Improvement Programme (WIWQIP) are underway to reduce overflows and improve water quality across the catchment.

These include:

- Herne Bay Branch 5 Upgrade – in design; expected completion June 2026
- Central Interceptor and associated link sewers – in execution; expected completion end of 2026

- Pt Chevalier Catchment Improvement Works (CC1) – in feasibility; expected completion 2029
- Oakley (CC9 – Keith Hay Park) – in construction; expected completion end of 2026
- Avondale–Whau CC6 Stage 1 to PS25 Shaft – in design; expected completion 2029
- Waterview Stage 2 of the Avondale Branch Sewer (CC6) – in design; expected completion June 2028
- Avondale–Whau CC7A and CC7A1 to Miranda Shaft – in feasibility; expected completion end of 2026
- Avondale–Lynfield Branch to Haycock Shaft – in feasibility; expected completion 2033
- Pt Erin Extension to the Central Interceptor – in design; expected completion end of 2026
- Unitec Wastewater Pipe Bridge Upgrade – in execution; expected completion 2040
- Waterview Separation Works – in design; expected completion 2029
- Motions Catchment Improvement Works – in design; expected completion 2031
- Grey Lynn Tunnel and link from the Tawariki link sewer to the Kelmarna Collector – in design; expected completion 2032
- Freemans Bay Wastewater Upgrade – scheduled to start in FY26; expected completion 2029
- Oakley Catchment Improvement Works – scheduled to start in FY26; expected completion 2029

3 DRY WEATHER OVERFLOWS

3.1 Introduction

This section analyses DWOs across the NDC catchments for the 2024–2025 reporting year. Results are presented separately for Type-1, Type-2, and Type-3 events, with both annual outcomes and longer-term trend insights. Comprehensive event lists for the reporting year are provided in Appendix D.

The NDC does not set performance targets for DWO frequency. Nevertheless, systematic analysis, particularly of Type-3 events supports evidence-based decisions on network flushing, preventative maintenance, asset renewals, repeat engineer-led investigations, and targeted community education on wastewater stewardship. Comparisons with historical DWO frequencies provide a view of performance over time; these trends are examined further in Section 3.3.

3.2 Dry weather overflows 2024-2025

Table 3-1 summarises the DWOs that occurred during the 2024–25 reporting period. In comparison with 2023–24, there was a marked reduction in overflows from Type-1 (pump stations) and a slight decrease in Type-2 EOP events, while Type-3 DWOs decreased slightly overall. The reduction in Type-1 overflows reflects improved operational controls and response practices. The small decline in Type-3 DWOs occurred despite persistent customer-driven blockage causes (e.g., wipes, fats etc.), which continue to represent a significant share of overflows. It should be noted that Type-2 DWOs (559) were slightly under-reported in the 2023/24 period. The data presented in this report reflects the corrected figures (577) and provides an accurate year-to-year comparison. Variability in dry-period conditions across the year likely influenced blockage formation and detection, noting that 2024–25 period witnessed mixed weather events. Continued attention to public education on wipes and Fats Oil Grease (FOG), targeted maintenance, and enhanced cause recording will further support DWO reduction.

Table 3-1 Comparison of causes of DWOs between 2023-24 and 2024-25

Cause	Type-1		Type-2		Type-3	
	2023-24	2024-25	2023-24	2024-25	2023-24	2024-25
Broken pipe	6	0	Not recorded		270	255
Fats	0	0		641	645	
Foreign objects	0	0		128	60	
Rags/ wet wipes	0	0		218	334	
Roots	0	0		694	712	
Rubbish	0	0		46	58	
Silt	0	0		71	83	
3 rd party damage	0	0		54	26	
Unknown	5	3		1563	1448	
Power failure	4	2		6	9	
Mechanical	12	1		1	0	
Cross connection	0	0				0
Total overflows	27	6	577	574	3692	3631

3.2.1 Type-1 overflows

Telemetry devices monitor imminent and actual overflows at all 431 Watercare pump stations and storage tanks (Type 1 EOPs). When a DWO alarm is received, staff attend the site to confirm the alarm, undertake remedial works, and complete any required clean-up.

During the 2024–25 reporting period, a total of six DWOs were recorded from Type 1 EOPs across five pump stations. This reflects a substantial reduction of approximately 78% compared to the 2023–24 period. Two events were recorded at Churchouse Road Pump Station (Upper Harbour North) due to power failure. Single events occurred at Cape Hill Road Pump Station (Pukekohe), Aldersgate Road 1 Pump Station (Onehunga), Wesley Bay Glade Pump Station (Onehunga), and Worker Road Pump Station (Wellsford).

The repeat overflow incidents at the Churchouse Road Pump Station were attributed to external power failures. The first occurred due to a failure of the incoming white phase, and the second resulted from a vehicle collision with a transformer located near the station. These events were beyond operational control, and therefore, the potential to investigate or implement effective mitigation measures is limited. The incidents are considered to have arisen from unforeseeable external factors rather than from operational or maintenance deficiencies.

Upper Harbour North and Onehunga each recorded two events, while Pukekohe and Wellsford recorded one event each. The totals for all pump-station overflows are presented in Table 3-2, and event-level details are provided in Appendix D.

Table 3-2 Summarising cause and number of overflows from Type-1 EOPs

Catchment	Facility Name	EOP ID	Cause	Overflows
Pukekohe	Cape Hill Road Pump Station	1247	Mechanical/Maintenance	1
Upper Harbour North	Churchouse Road Pump Station	874	Power Failure	2
Onehunga	Aldersgate Road 1 Pump Station	208	Unknown*	1
	Wesley Bay Glade Pump Station	653	Unknown*	1
Wellsford	Worker Road Pump Station	1128	Unknown*	1

*An unknown cause means that staff responded to the overflow alarm and confirmed that an overflow occurred but were unable to identify the exact cause. This may have been due to a partial blockage that cleared gradually, or network surcharging caused by rainfall less than 10 mm, which would classify it as a DWO rather than a WWO.

3.2.2 Type-2 overflows

Type 2 overflows occur from EOPs distributed across both the local and transmission wastewater networks. Out of 385 Type-2 EOPs, 96 have telemetry devices installed to alert and record potential overflow events. These telemetered alarms are used in this report as indicators of performance. However, the dataset does not represent the full network and has not been validated or cause-assigned.

As per reporting methodology, all alarms recorded following 10 mm or less of rainfall in the preceding 24 hours are classified as DWOs, even when surcharge may have been a factor. A small proportion of false positives is also expected. While this limits reliability for absolute counts, the dataset remains useful for identifying poorly performing EOPs and prioritising follow-up.

During the 2024–25 reporting period, 574 Type-2 DWO alarms were recorded across 51 EOP sites, compared with 577 in 2023–24, a net decrease of 3 overflows (-0.5%). The most affected catchments during 2024-25 were:

- Hobson Bay: 251 alarms
- Western Isthmus (Central Interceptor): 147 alarms
- Cox's Bay: 105 alarms
- Central Auckland (CBD): 43 alarms

Figure 3-1 presents the distribution of Type 2 DWO alarms by catchment.

The highest number of alarms were concentrated at the following EOPs:

- EOP 420 — Nuffield/Mahuru Streets, Newmarket: 55 DWOs
- EOP 740 — Argyle Street, Herne Bay: 47 DWOs
- EOP 734 — Edendale Branch, Morning Star Place, Sandringham: 42 DWOs
- EOP 505 — Scherff Road, Remuera: 41 DWOs
- EOP 201 — Intersection of Sarsfield and Lawrence Streets, Herne Bay: 40 DWOs
- EOP 728 — Branch 8, Mount Albert MH 31 at Haverstock Road, Sandringham: 38 DWOs

Interpretation and Limitations

- Many of the highest-alarm EOPs are on combined network corridors, such as the Central Auckland CBD, Western Isthmus branches, and Hobson Bay. In these areas, small rainfall totals can still trigger surcharge, which explains the concentration of DWO alarms despite the ≤ 10 mm dry-weather screen
- The alarm counts are derived from telemetry records only and not validated against actual overflow events. Nonetheless, the pattern of alarms is a practical indicator of areas requiring investigation and maintenance, with Hobson Bay and the Western Isthmus standing out as priority catchments

Planned Improvements

The Central Interceptor Project, once fully commissioned, will substantially reduce overflows from combined systems, including EOPs in the Western Isthmus, Central Auckland CBD, and Hobson Bay catchments. In parallel, the Herne Bay Branch 5 Upgrade Project (scheduled for completion in 2027) aims to specifically address frequent overflows in the Herne Bay area, covering sites such as EOP 201 and EOP 712. Further details on these and other network improvements are provided in Section 6 of this report.

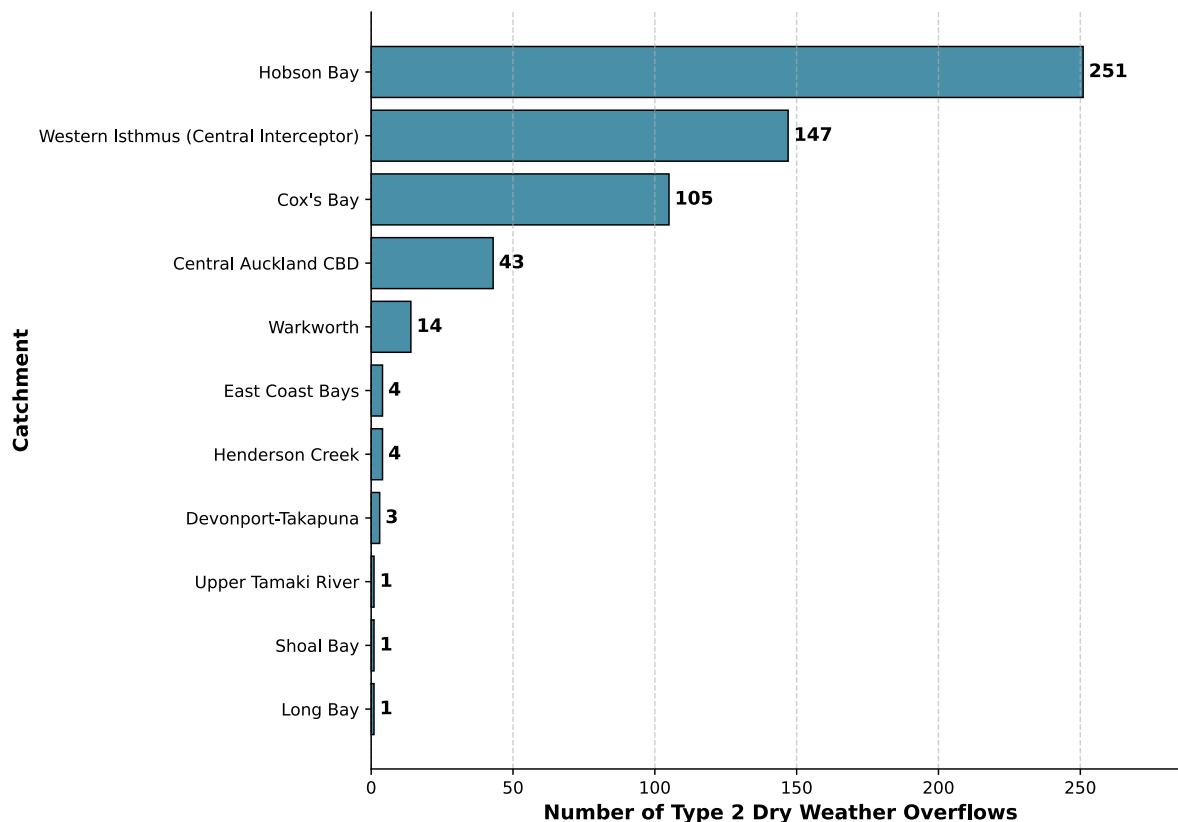


Figure 3-1 Total Type-2 EOP DWO alarms by catchment for the reporting period 2024-25

The high number of Type-2 DWO alarms again does not directly indicate multiple blockages along the network. These EOPs are designed to spill in wet weather, and many of the recorded alarms this year are still likely attributable to network surcharging during low to moderate rainfall rather than dry-weather blockages. Actions to further improve wet-weather performance at those EOPs contributing the highest overflow volumes are summarised in Table 4-4 of Section 4.2.

Comparison of overflow alarm frequencies with the 2023/24 dataset provides insights into year-on-year network behaviour and is outlined in in Figure 3-2. The comparison from this reporting year shows both improvements and emerging risks at the EOP level:

Improvements

The principal decrease sites show a consistent downward trend across recent years, with the 2022/23 spike attributable to heavy-rain conditions rather than persistent asset failure. Figure 3-3 illustrates this pattern:

- EOP 712 (Central Auckland CBD): 42 → 66 → 61 → 36
- EOP 201 (Cox’s Bay): 0 → 61 → 59 → 40
- EOP 739 (Western Isthmus – Central Interceptor): 34 → 56 → 31 → 13

These results show that the interventions are working and the improvements are becoming established, though continued routine monitoring will be needed given the variability in weather conditions.

Emerging risks (step-change increases)

- EOP 740 (Cox’s Bay): 0 → 47 (+47). Step change requiring further investigation (e.g., blockage, telemetry/control fault, upstream constraint)

- EOP 727 (Western Isthmus – Central Interceptor): 0 → 38 (+38). Rapid emergence suggesting a local capacity/operational pinch-point. Performance is expected to normalize as Central Interceptor commissioning/integration completes¹
- EOP 733 (Hobson Bay): 0 → 10 (+10). Newly emerged within a priority catchment

This reporting year shows mixed results, with several sites recording notable decreases, while others demonstrated increases (Figure 3-2). Events are not evenly distributed. Hobson Bay, Western Isthmus (Central Interceptor), and Cox's Bay accounted for most incidents (approximately 88% of the 2024/25 total), indicating that performance is driven by a few geographic hotspots rather than a network wide issue. Management response focuses on maintaining operational control at high-contribution locations, triage step-change EOPs, and sustain or further reduce overflows where possible to ensure compliance. Detailed trend analysis is provided in Section 3.3 below.

¹ Note that 2023/24 reporting may have under-represented this EOP due to differences in monitoring by the Central Interceptor Project team and details not consistently passed onto the relevant team; historical records will be reconciled.

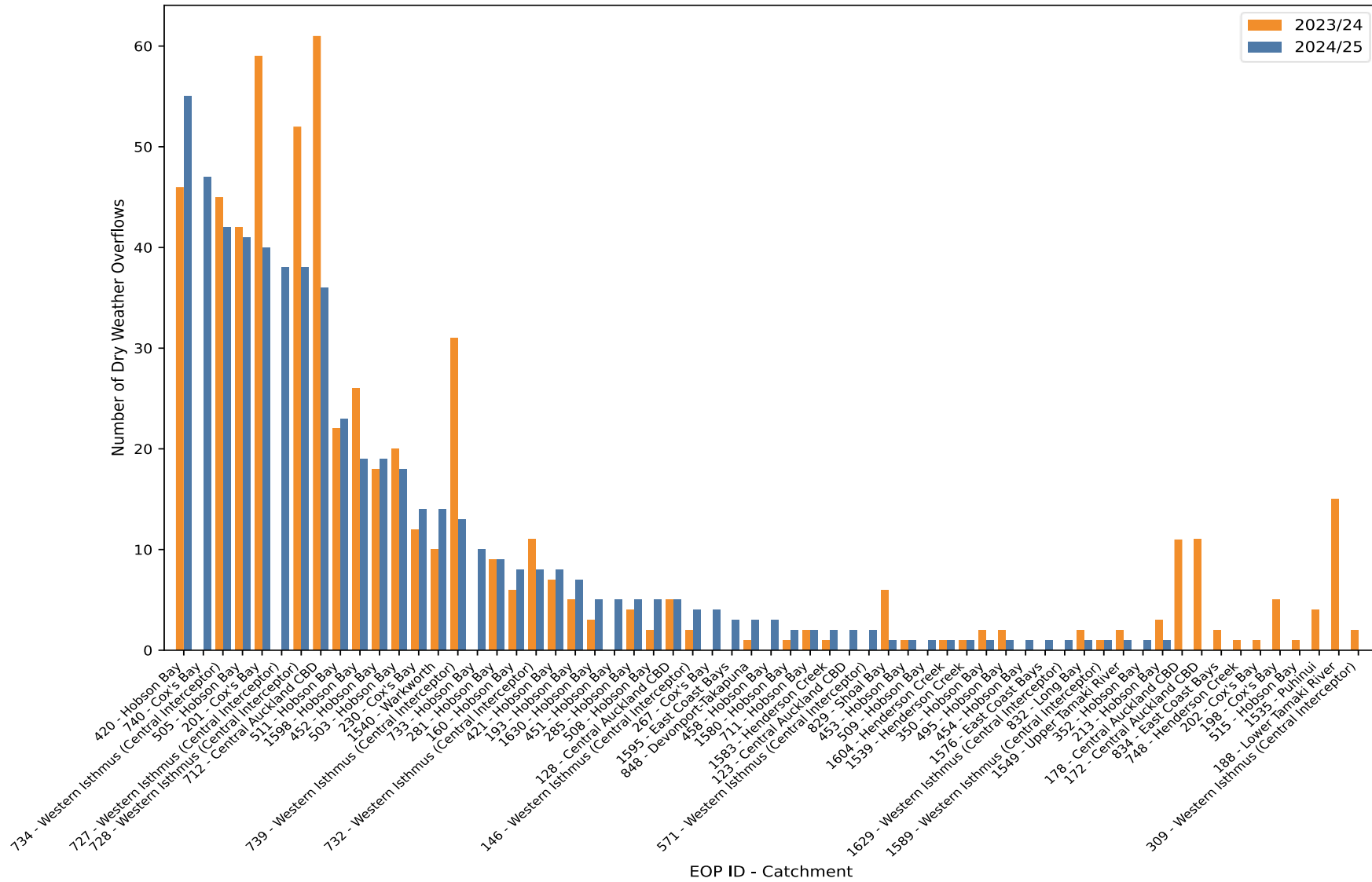


Figure 3-2 Comparison of Type-2 DWO overflow alarms for EOPs recorded in 2024-25 against the 2023-24 frequencies

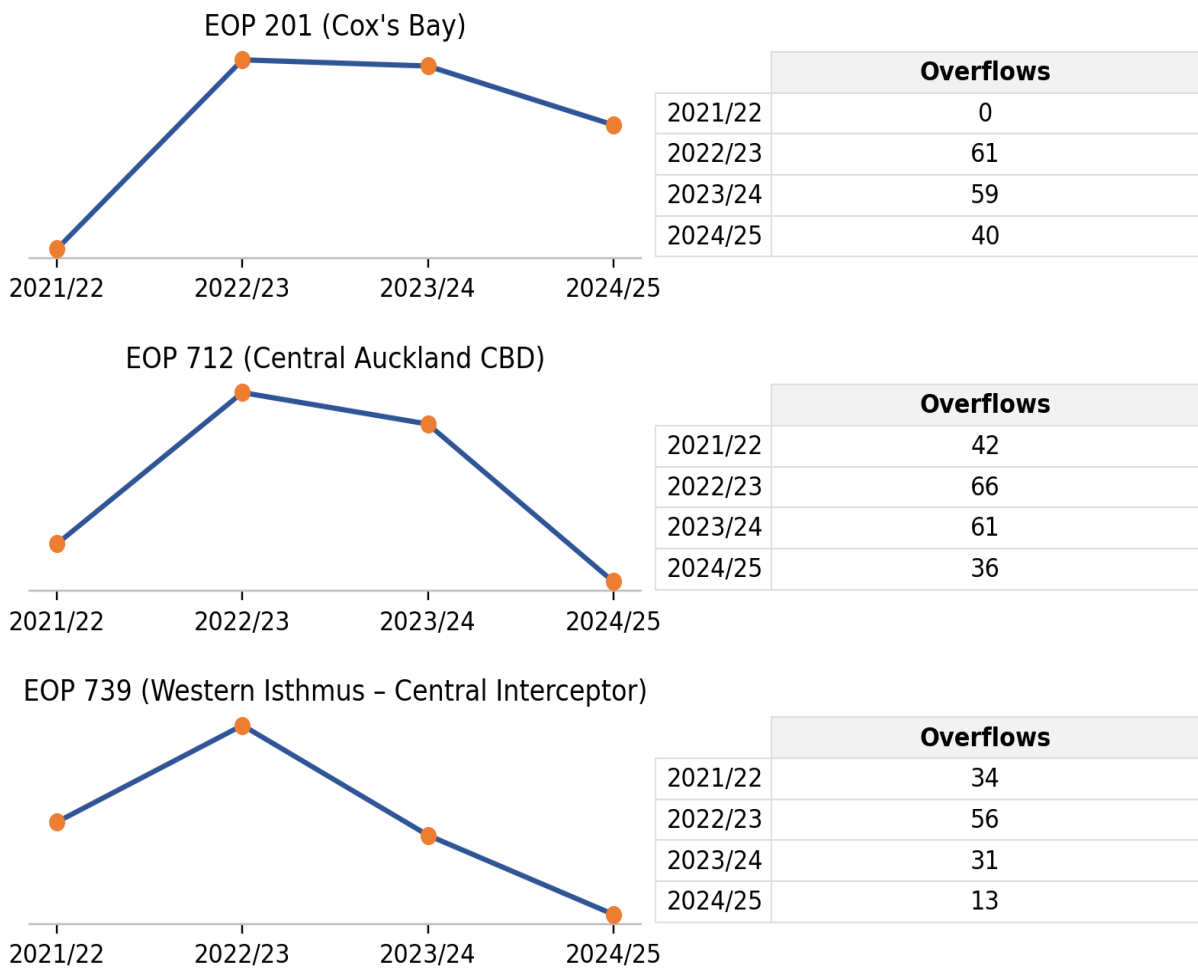


Figure 3-3 Type 2 DWOs – top three EOPs with decreasing trends between 2021 and 2025

3.2.3 Type-3 overflows

Type-3 overflows account for all reported uncontrolled spills onto private and public property from the public network. Overflows typically emerge from gully traps and manholes but can also be traced to broken or faulty pipes. The Type-3 data presented in this Section, and in Section 4 (WWOs), comprise the reported and attended uncontrolled overflows from the public, gravity-fed wastewater network (i.e., the Watercare network). This dataset excludes callouts later confirmed as private property issues.

In 2024/25, a total of 3,631 Type-3 DWOs were recorded, slightly fewer than the 3,692 overflows reported in 2023/24 (1.7% decrease). Of these, 3,626 occurred in the local network and five in the transmission network, highlighting that most uncontrolled overflows still arise within the local reticulation network. Figure 3-4 provides a catchment-wide DWO comparison with the previous reporting year.

Differences in incident levels

Of the total DWOs reported:

- 3,356 (92%) were recorded as Level-1 (contained on private land or limited impact to the environment)
- 218 incidents were designated Level-2² pollution events
- 56 were escalated to Level-3³ pollution incidents
- 1 severe Level-4⁴ incident was reported

These results represent a small but continued improvement compared to the previous year where 3,459 Level-1, 58 Level-3 and 2 Level-4 events were observed. However, an increase in Level-2 events is observed this year as there were 173 reported in the previous year.

Causes of overflows

As in past years, a large proportion (1,448 or 40%) of DWOs were logged with “unknown cause”, reflecting the difficulties in determining cause of blockages after they have been immediately resolved by flushing. For overflows where a cause was determined:

- Root intrusion remained the leading contributor, responsible for 712 overflows (~20% of all DWOs, and 33% of known causes)
- FOG blockages followed closely, accounting for 645 incidents (~18% of all DWOs, 30% of known causes)
- Other reported causes included rags (334), broken pipes (255), silts (83), foreign objects (60), and smaller numbers from rubbish (58), third-party damage (26), and isolated issues such as power/mechanical failure (9)

² Level 2 (Minor Overflow): Routine-scale event involving limited impacts, such as discharge to a watercourse with natural dilution, low downstream ammonia (<3 ppm), minor ecological or property effects, and a small, localised health risk (≤2 households or <10 people).

³ Level 3 (Significant Overflow): Event requiring escalation due to higher impacts, including obvious contamination, stressed or impacted ecology, elevated ammonia (>3 ppm), short-duration high-volume or longer low-volume discharge to sensitive areas, and health risks affecting multiple households or >10 people.

⁴ Level 4 (Major Overflow): High-impact event involving prolonged or high-volume discharge with no effective containment, anoxic or black waterways, definite ecological harm (fish/wildlife deaths), significant public health risk (>10 households or >100 people), and property damage >\$10,000.

Geographic distribution

Just over half of all Type-3 DWOs were concentrated in six catchments:

- Upper Tāmaki River – 437 overflows
- Henderson Creek – 369 overflows
- Western Isthmus (Central Interceptor feeder area) – 362 overflows
- Hobson Bay – 274 overflows
- East Coast Bays – 286 overflows
- Whau River – 212 overflows

The Upper Tāmaki River catchment remains the poorest performer across Auckland. Almost half of the overflows with known causes in this catchment were attributable to FOG-related blockages. Ongoing public education campaigns, including targeted outreach and social media initiatives, continue to raise awareness about safe disposal of fats, oil, and grease.

Network density assessment

To normalise impacts across different catchment sizes, the number of Type 3 DWOs per kilometre of local pipeline has been assessed. See Figure 3-5 for the full illustration.

- Overall density improved slightly year-on-year: 0.419 → 0.407 DWOs/km (–2.9% in total DWOs across ~8,927 km)
- Highest density catchments (indicative hotspots): Cox’s Bay (0.659), Upper Harbour South (0.659), Shoal Bay (0.657), Hobson Bay (0.613) and Central Auckland CBD (0.608). These are predominantly urban, consistent with higher load/complexity
- Lowest density catchments: Kumeu/Huapai/Riverhead (0.061), Beachlands Maraetai (0.063), Snells Beach/Algies Bay (0.074), Omaha (0.127), Pukekohe (0.137)
- Notable density improvements: Central Auckland CBD 0.692 → 0.608; Onehunga 0.677 → 0.489; East Coast Bays 0.624 → 0.560; Pahurehure Inlet 0.191 → 0.139; Henderson Creek 0.503 → 0.465
- Notable density increases: Western Isthmus (Central Interceptor) 0.516 → 0.565; Upper Tamaki River 0.344 → 0.376; Shoal Bay 0.618 → 0.657; Hobson Bay 0.573 → 0.613; Puhinui 0.327 → 0.387

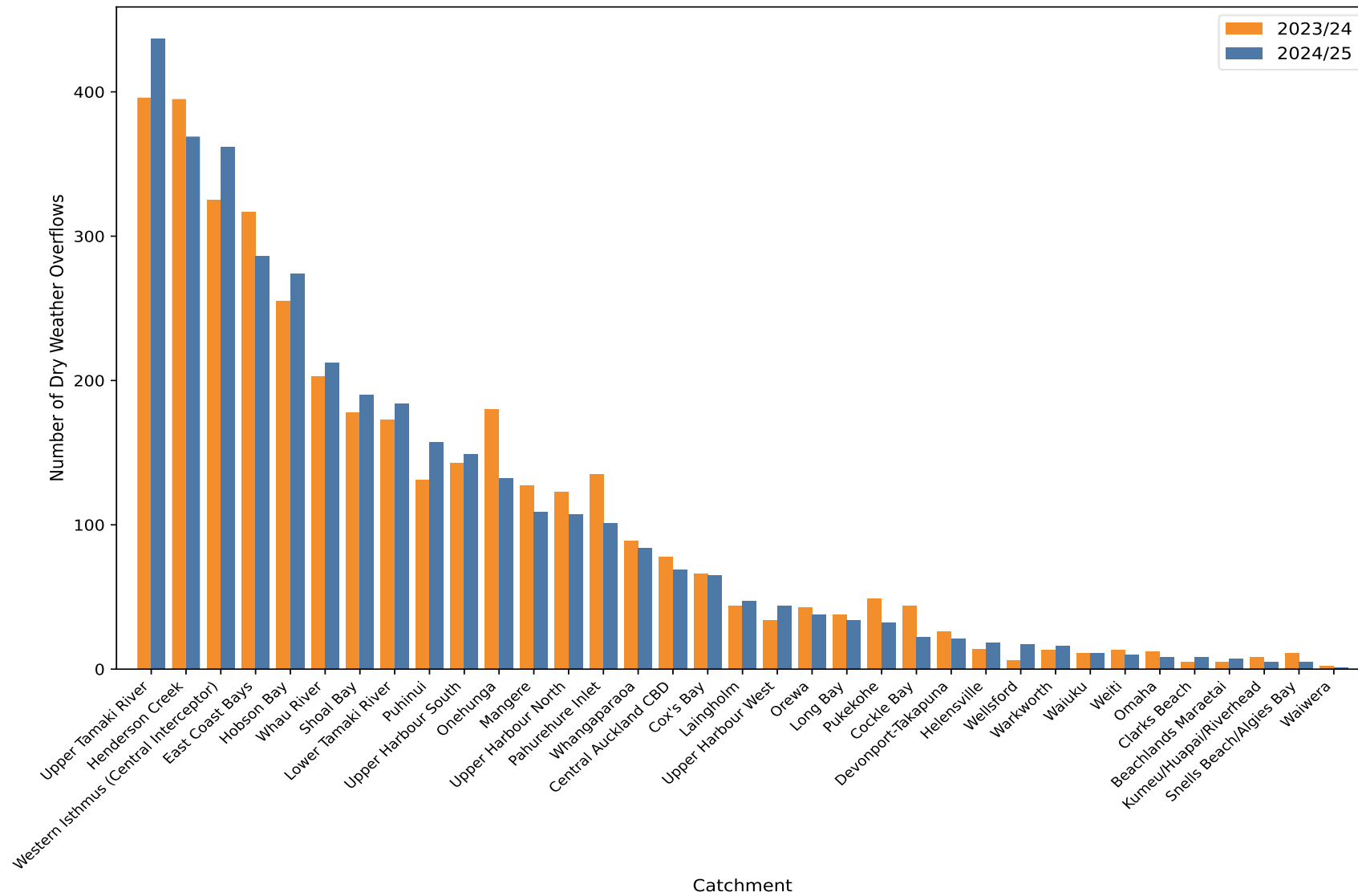


Figure 3-4 Comparison of total number of Type-3 DWOs per catchment during current (2024-25) and previous reporting periods (2023-24)

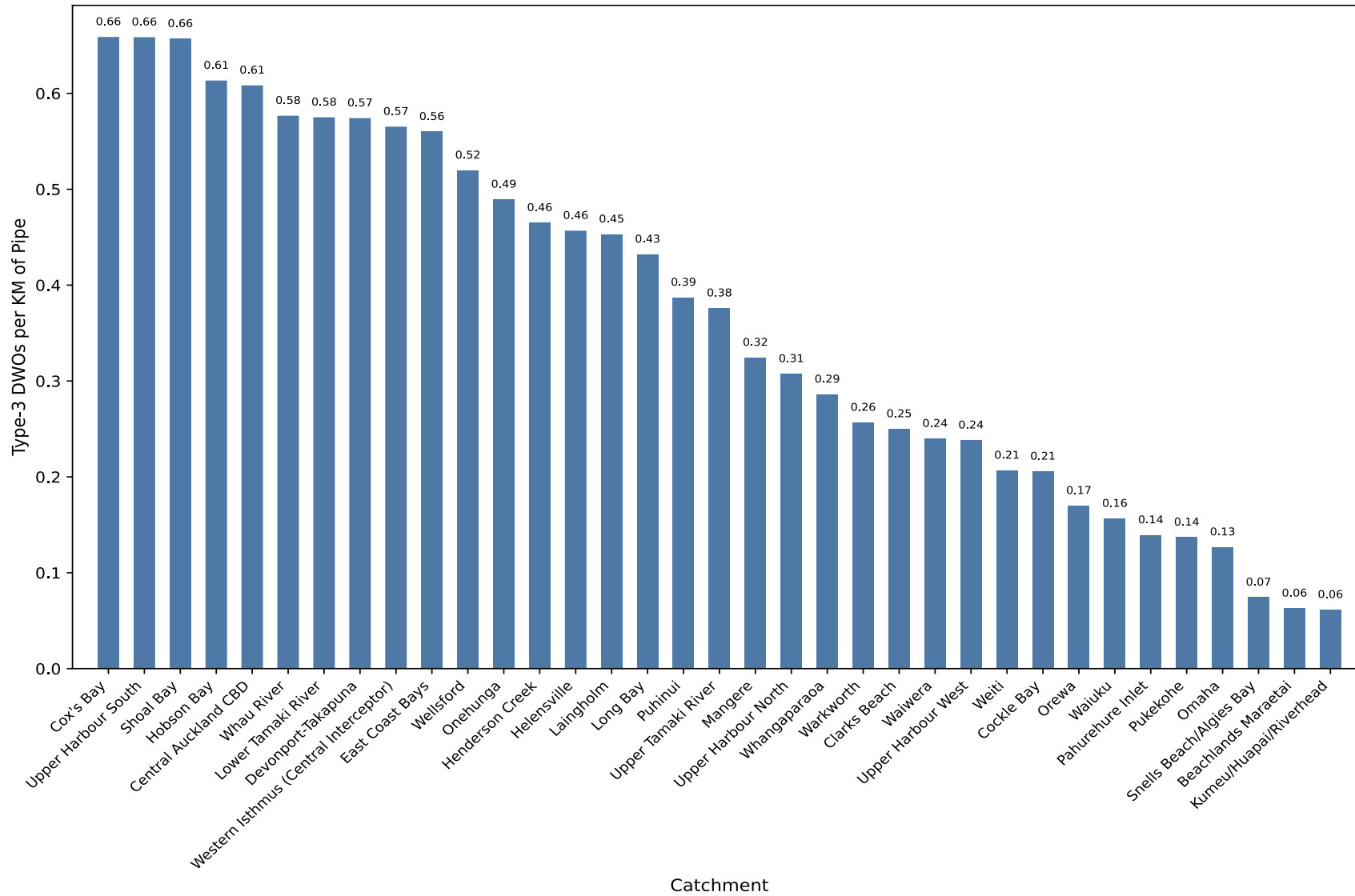


Figure 3-5 Number of Type-3 DWOs per 1 km of wastewater network pipe per catchment in 2024-2025

Repeat DWOs

A repeat DWO is one that occurs twice or more within 12 months and may indicate a systemic network issue. The catchments with the highest number of repeat Type-3 DWO issues were Upper Tamaki River with 19 sites, followed by Western Isthmus with 18 sites, Hobson Bay and Shoal Bay, each with 13 and 12 sites respectively overflowing more than twice during the reporting period. Table 3-3 summarises the number of repeat overflow sites and the number of engineer-led investigations per catchment. Western Isthmus also had the highest number of investigations conducted.

Table 3-3 Summarising number of repeat Type-3 DWOs and engineer-led investigations per catchment for the reporting period 2024-2025

Catchment	No. of repeat overflow sites	No. of Engineer-led Investigations
Central Auckland CBD	3	4
Clarks Beach	1	1
Cox's Bay	2	1
Devonport-Takapuna	2	0
East Coast Bays	6	5
Helensville	1	0
Henderson Creek	9	3
Hobson Bay	13	10
Laingholm	2	1
Lower Tamaki River	7	8
Mangere	3	0
Onehunga	8	8
Orewa	2	0
Pahurehure Inlet	3	2
Puhinui	6	3
Pukekohe	1	1
Shoal Bay	12	4
Upper Harbour North	4	2
Upper Harbour South	6	1
Upper Harbour West	1	0
Upper Tamaki River	19	12
Warkworth	1	0
Wellsford	1	0
Western Isthmus (Central Interceptor)	18	13
Whangaparaoa	4	1
Whau River	10	8

3.2.4 Ōrākei main sewer collapse – update

A rapid operational response was implemented following the Ōrākei main sewer collapse reported in last year's report. Temporary bypass pumping was deployed immediately to protect receiving environments and prevent further environmental harm. Relining of the initially damaged pipeline section, together with associated temporary bypass pumping works, was completed in 2024.

An additional relining phase is now nearing completion: the liner has been installed, and grouting of the annulus is substantially complete. Chambers and site reinstatement works will follow the grouting works, with final project completion currently forecast for June 2026.

Operational and asset-management actions:

- A full assessment of the Ōrākei main was completed in 2024. One immediate change arising from that assessment is the implementation of increased inspection frequency: the Ōrākei main is now subject to annual inspections
- Implementation of more robust asset management systems is in progress to improve defect identification, risk recording and intervention planning for this and similar critical assets
- A risk profile for the Ōrākei main is being developed to support evidence-based prioritisation of any further renewal or remediation works; further detail on the risk assessment and prioritisation approach will be provided in the next annual report

Recent defect discoveries and follow-up works:

- During increased inspection activity in May 2025, two significant defects were identified between MH35 and MH34 within the Auckland Zoo corridor. Both defects required urgent intervention to avoid unplanned failure
- A targeted repair project has been initiated to rectify the identified defects and restore long-term integrity to that section of the main. This project is being progressed alongside the remaining relining and reinstatement activities and is scheduled for completion by the end of 2026

Summary Type-3 DWOs

Immediate mitigation measures (temporary bypass pumping) successfully protected the environment following the collapse. Significant remediation (relining) was completed in 2024, and remaining relining, grouting and reinstatement tasks are well advanced. Increased inspection frequency is already in practice, and complementary improvements to asset management and risk-based prioritisation are under development. The combined programme of remediation, enhanced inspection and strengthened asset management is intended to reduce the likelihood of recurrence and to provide a clearer basis for future renewal investment decisions.

3.3 Dry weather overflows trend analysis

3.3.1 Introduction

This section summarises overflow trends over the last five reporting years (2021–2025) using annual totals, with methods tailored to each DWO type and the quality of the underlying data. For Type-1 DWOs (historical, validated), we apply a rolling five-year average to smooth inter-annual variability and highlight underlying patterns. For Type-2 DWOs (provisional and not validated), we limit analysis to a simple year-on-year comparison of the reporting year against the preceding year; the provisional status of these data constrains the application of more detailed statistical techniques. For Type-3 DWOs, which are compiled as annualised datasets, we assess trends using two complementary approaches:

- Visual inspection of annual counts to indicate the direction and magnitude of change; and
- Ordinary least squares linear regression with a significance threshold of $p < 0.05$

For each regression series, we report the slope (β), 95% confidence interval, p-value, and R^2 . Given that each series comprises only five annual observations, we intentionally keep methods parsimonious and do not apply more complex tests such as Kendall or Mann–Kendall.

3.3.2 Type-1 trends

Of the 431 operational Type-1 EOPs, dry weather overflows have been recorded from 138 sites in the period between July 2017 and June 2025. However, as noted in Section 3.2.1, only 5 pump stations experienced a DWO alarm during the 2024/25 reporting year.

Trends have been assessed through rolling five-year average comparisons, which indicate whether stations are showing increasing, decreasing, or static frequencies of DWOs (see Figure 3-6 and further detail in Appendix D). Of the 138 pump stations analysed:

- 28 show a decreasing trend in overflows
- 107 remain stable with no discernible change and
- 3 sites show an increasing trend, though all remain low in frequency at less than or equal to 2 events per year

Additionally, consistent with improvements across the network, 28 Type-1 EOPs have not recorded a DWO since July 2019, reinforcing the effectiveness of targeted asset renewals and operational maintenance in those areas.

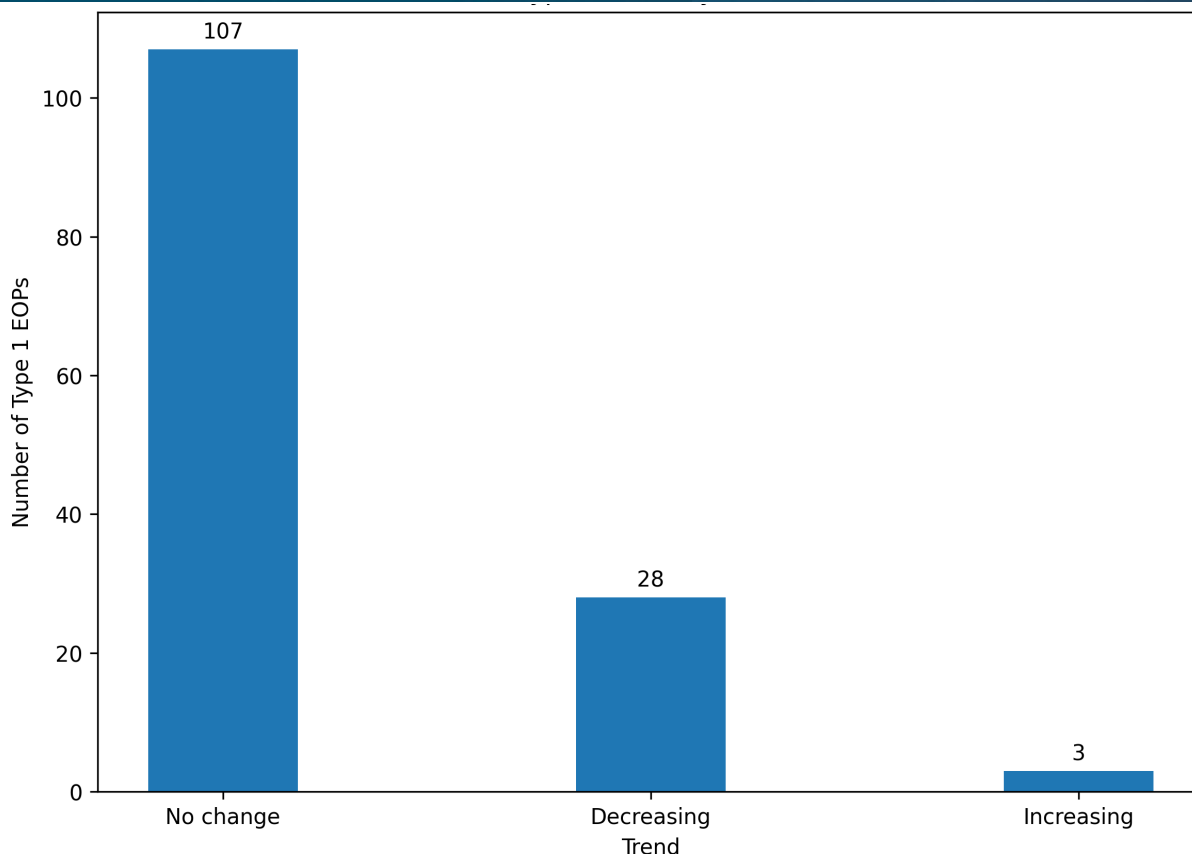


Figure 3-6 Bar graph showing the trend for the number of Type-1 EOPs with DWOs for the rolling five-year average totals.

Figure 3-7 shows a generally stable pattern of Type-1 DWOs year-to-year, with the five-year rolling average trending flat to slightly down in recent years. This smoothing confirms that the reductions observed at individual sites are not being offset elsewhere in the network. The 2024/25 point sits within the recent band of variability and does not indicate any ongoing deterioration. In combination with the low number of sites triggering alarms in 2024/25, the rolling average suggests that targeted asset renewals and maintenance practices are consolidating past gains rather than simply shifting risk within the system.

The Pareto distribution (Figure 3-8) highlights that a small number of pump stations account for a disproportionate share of DWOs over the last five-years. Most of these higher-contributing sites are coded grey, indicating no discernible trend shift, while several are green where interventions have begun to reduce events. Only a very small subset appears in red, and these increasing-trend sites contribute modest counts and are already under targeted operational follow-up. The chart reinforces the effectiveness of focusing renewal and maintenance resources on the few sites that drive most incidents, while continuing routine controls across the broader, largely stable network of pump stations.

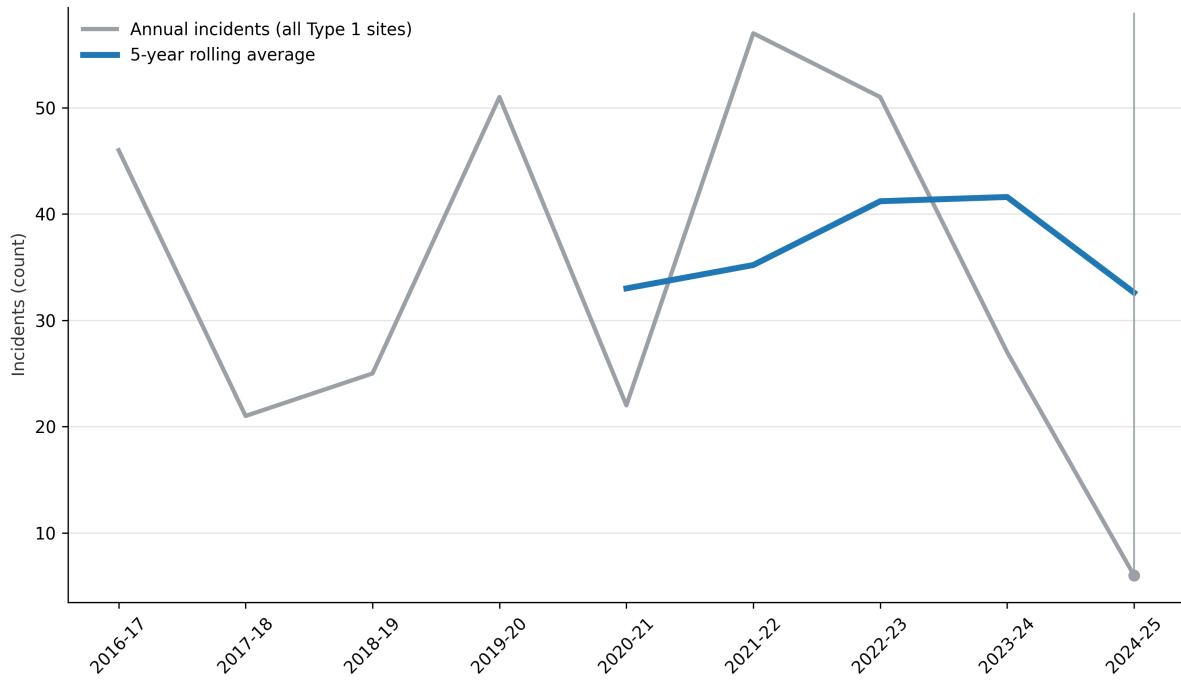


Figure 3-7 Type-1 annual DWOs (2017-2025) overlaid with the 5-year rolling average (2021-2025)

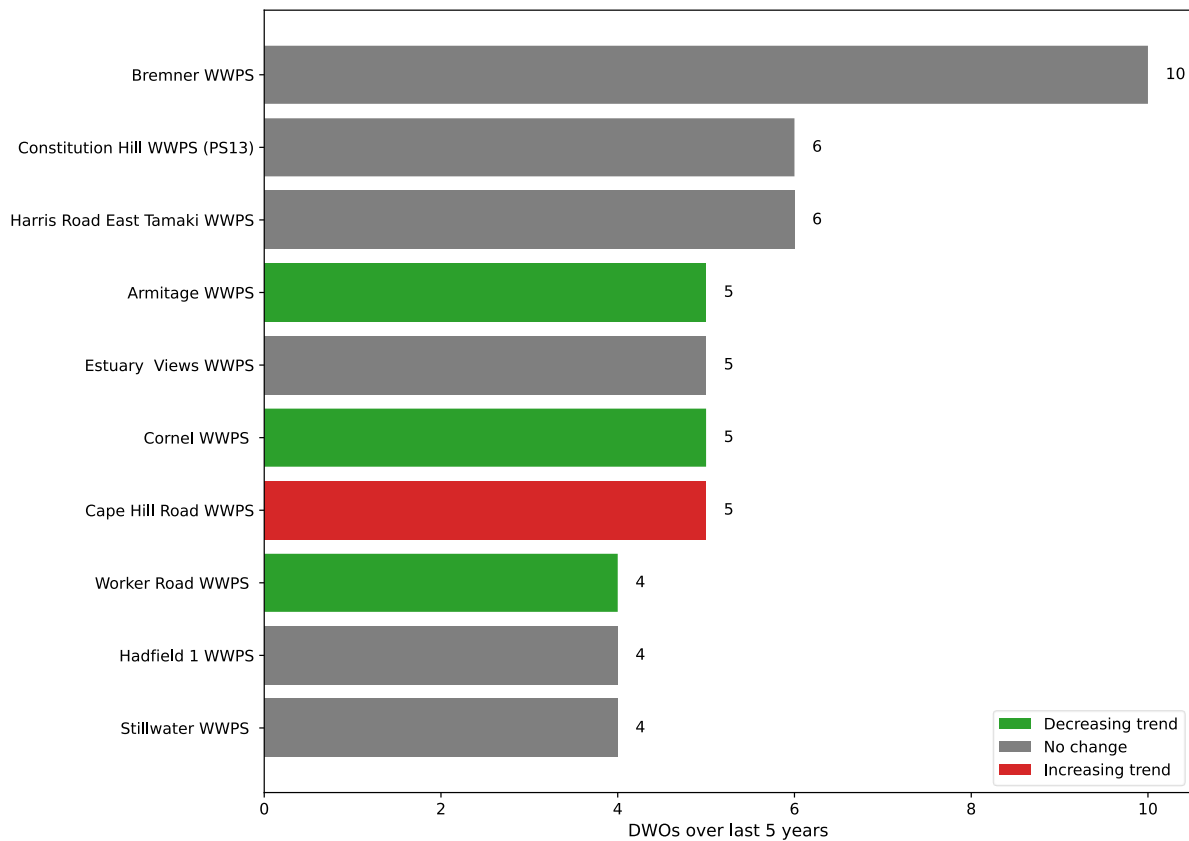


Figure 3-8 Top 10 Type-1 sites by total DWOs in the last five years, with trend based on five-year (2021-2025) average

3.3.3 Type-2 trends

Type-2 DWOs are alarm-derived and not field-validated as explained in the earlier section. There is no explicit consent limit for Type-2 DWOs; the objective is to minimise and, where feasible, avoid DWOs through network enhancements and operational control. The following interpretations therefore guide risk-based prioritisation rather than compliance determinations:

- The top 15 EOPs account for 457 events, or 79.6% of the 2024/25 alarmed total (574) (Figure 3-9). This concentration indicates that targeted actions at a small set of assets can materially reduce the overall alarm burden. The top 15 include persistent contributors and several recent risers that warrant operational attention
- Hobson Bay, Western Isthmus, and Cox's Bay dominate alarm volumes (Figure 3-10:). The companion table, in Figure 3-10, shows which EOPs within each catchment drive the totals—useful for triaging work orders and scheduling inspections. Cox's Bay exhibits a mixed pattern: reductions at EOP 201 alongside a step-change increase at EOP 740. Western Isthmus shows varied movements across assets
- Year-on-year deltas separate improving assets (green) from rising alarm points (red) (Figure 3-10:). Sustained decreases at EOPs such as 201, 712, and 739 are consistent with post-2022/23 recovery and operational interventions. Step-change increases—especially EOP 740 (Cox's Bay) and EOP 727 (Western Isthmus)—signal locations for urgent diagnostic follow-up to prevent alarms from persisting or escalating

Implications for management

The analysis indicates that a small set of EOPs and three catchments—Hobson Bay, Western Isthmus, and Cox's Bay—drive the majority of Type-2 dry weather alarm activity in 2024/25. Watercare will continue to prioritise rapid diagnostics and targeted maintenance at the top-contributing EOPs, while scheduling catchment-level condition assessments and inflow control where alarms are concentrated. Sites showing sustained decreases will continue being monitored to protect gains. Given that Type-2 DWOs are alarm-derived and not field-validated, repeat alarm locations will be selectively verified to confirm root causes and eliminate false positives. These insights will inform FY25/26 work planning, with early-warning KPIs (monthly alarm density and step-change triggers) used to escalate response where thresholds are exceeded. A list of all Type-2 DWO alarms for FY24/25 are provided in Appendix D.

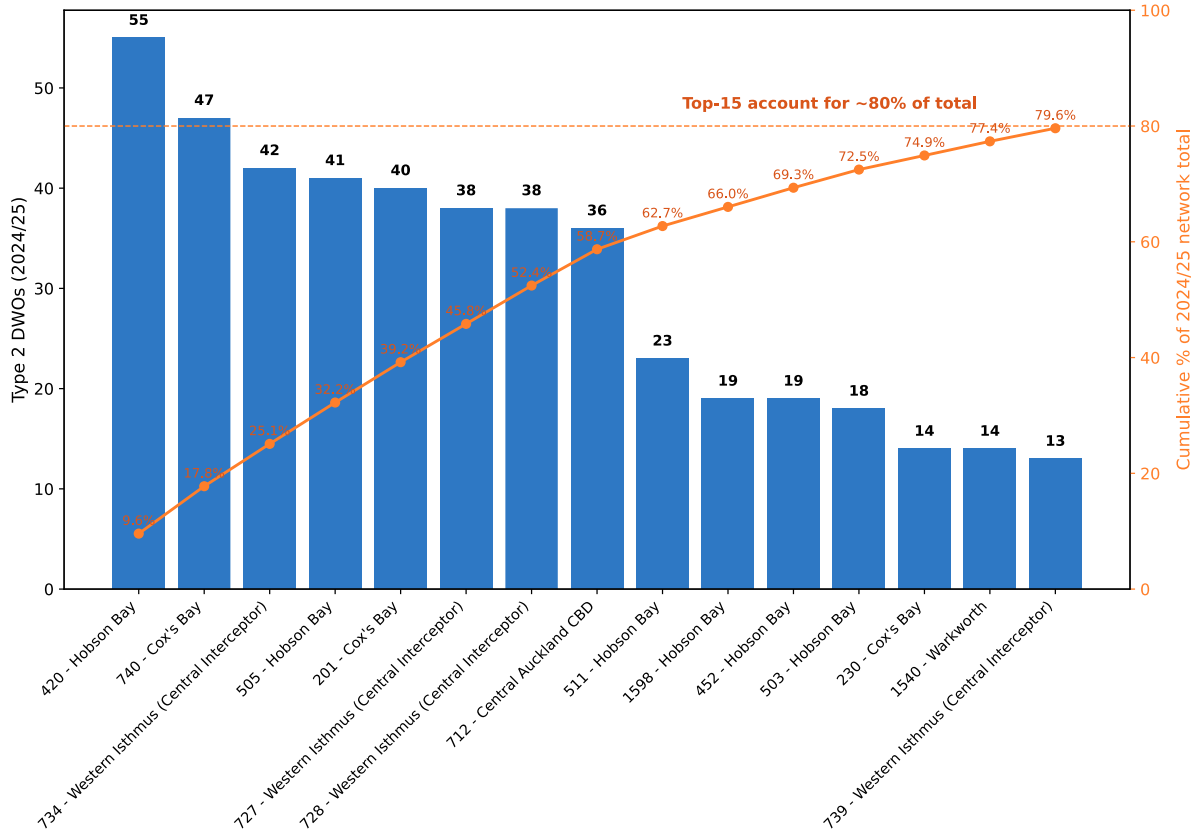
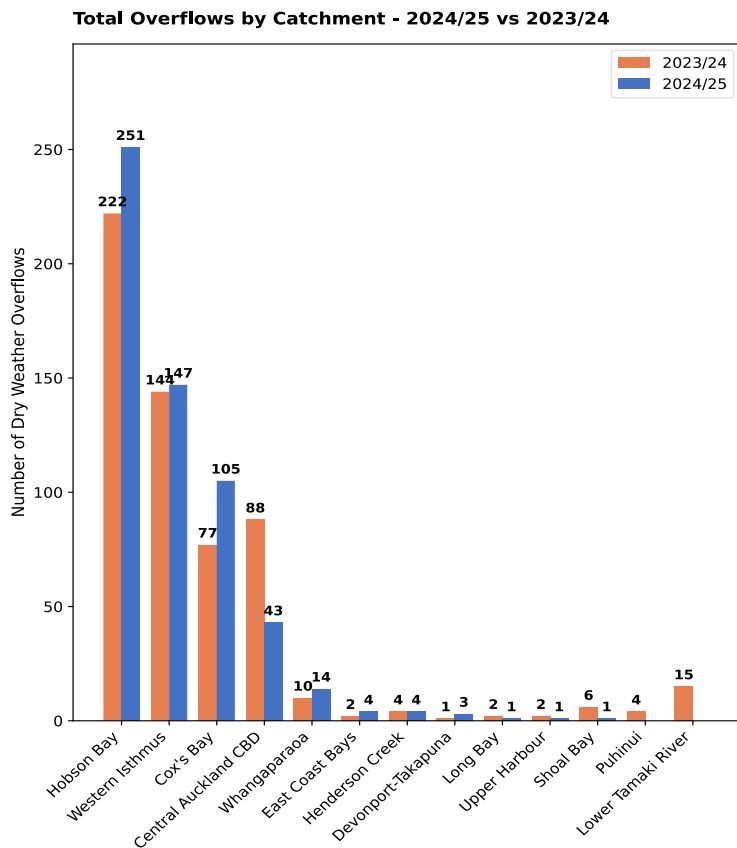


Figure 3-9 Top 15 Type-2 DWO EOPs with pareto in 2024/25



Top EOP Contributors in Top 3 Catchments (by 2024/25)

Catchment	EOP	23/24	24/25	Δ
Hobson Bay	420	46	55	9
Hobson Bay	505	42	41	-1
Hobson Bay	511	22	23	1
Western Isthmus	734	45	42	-3
Western Isthmus	727	0	38	38
Western Isthmus	728	52	38	-14
Cox's Bay	740	0	47	47
Cox's Bay	201	59	40	-19
Cox's Bay	230	12	14	2

Figure 3-10 Total Type-2 DWOs by catchment (2024/25 vs 2023/24) with top contributors

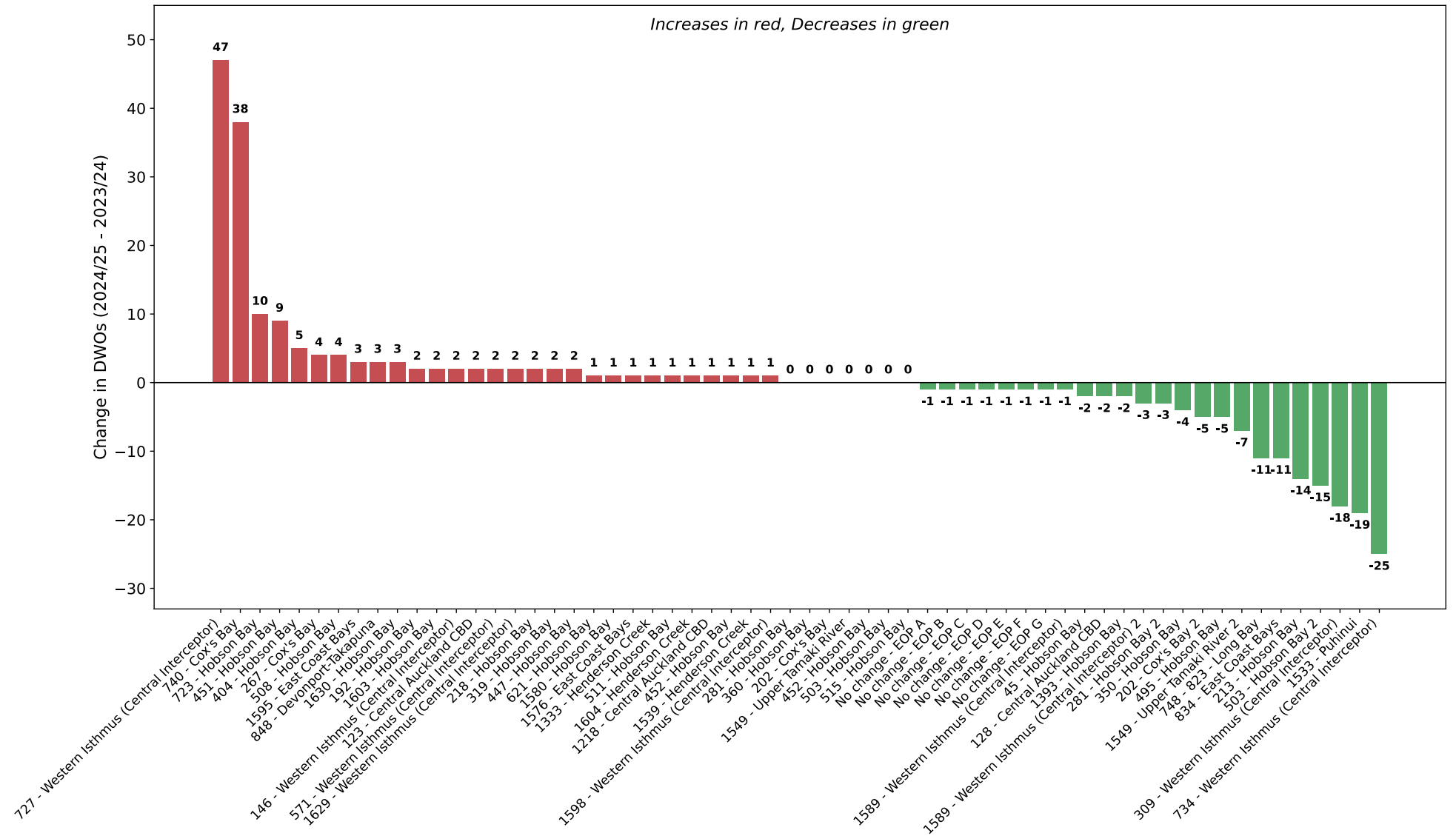


Figure 3-11 Changes in Type-2 DWO alarms by EOP in 2024/25 compared to 2023/24

3.3.4 Type-3 trends

In support of our annual performance reporting requirements, the following analysis details the statistical trends of Type-3 DWOs within the wastewater network from 2021 to 2025, highlighting key findings and areas of focus.

Regional and catchment-level statistical results that follow (Figures to Figure 3-17; Appendix D and Appendix E) identify where observed changes are robust and where further operational verification is recommended.

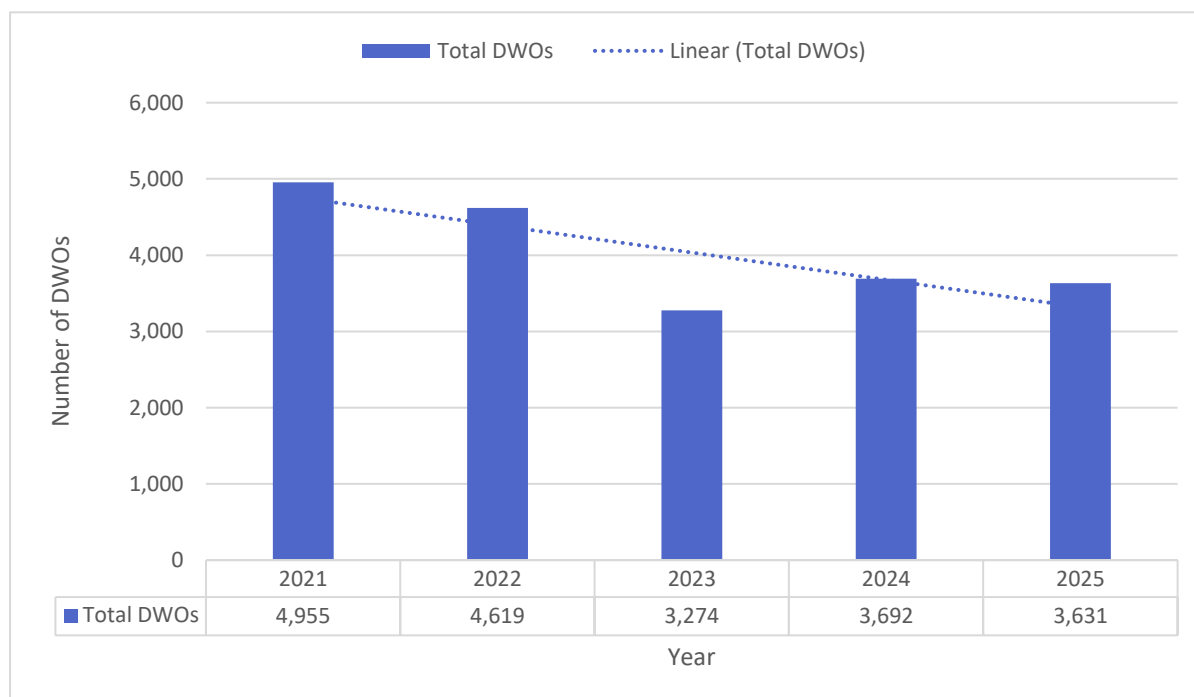


Figure 3-12 Total number of Type-3 DWOs from 2020/21 to 2024/25

Key findings

- The total number of Type-3 DWOs fell from 4,955 in 2021 to 3,631 in 2025, with a dip in 2023 (3,274) and a partial rebound in 2024 (3,692). Overall, this indicates a downward direction over the five-year period. Refer Figure 3-12
- A simple Ordinary Least Squares (OLS) on annual totals estimates a decrease of ~358 DWOs/year; however the 95% CI for the slope (-867 to +152) and $p = 0.112$ mean the regional linear decline is not statistically significant at the 5% threshold. The model’s R^2 of 0.624 suggests that the linear trend explains about 62% of the variation in annual totals, which is reasonably strong for such a short series (five points) but still leaves notable year-to-year variability unaccounted for. The output summary of the regression model is provided in Appendix E
- Auckland-wide by cause (2021–2025): no cause shows a statistically significant regional linear trend at $p < 0.05$. Directionally, the largest declines are for roots and fats; broken pipes show a small, non-significant increase and unknown causes fluctuate (Figure 3-13 and Appendix D). A regional model including cause effects (count ~ cause + year) explains 93.6% of variance (Adj. $R^2 = 91.9\%$; F-test $p < 0.001$)

- Catchment × cause OLS ($p < 0.05$) reveals several locally significant patterns: decreases in fats and roots at specific catchments, local rises in some causes (e.g., unknowns in Omaha), and other cause-specific changes detailed below and in Appendix E
- Under-performing catchments for 2024/25 (highest frequencies and cumulative totals 2021–2025) are Upper Tāmaki River, Henderson Creek and Western Isthmus; fats and roots are the dominant known drivers in these areas (See Figures Figure 3-14 to Figure 3-17)

Methodology

- Primary method: OLS regressions applied to annual counts (2021–2025). Analyses comprise:
 - Regional time-series OLS on annual totals (contextual overview)
 - Regional OLS with cause effects ($\text{count} \sim \text{cause} + \text{year}$) to assess cause contributions across Auckland
 - Separate OLS regressions for each catchment × cause to detect local, cause-specific trends.
- Significance: results reported at $p < 0.05$ unless stated otherwise; full regression summaries and diagnostics are provided in Appendix E. Visual frequency plots and cause tables are in Appendix D and Figures Figure 3-12 to Figure 3-17
- Data scope: annual aggregated counts by catchment and cause for 2021–2025

Auckland wide regional trends by cause (2021–2025)

The annual counts of Type-3 DWOs by different causes across Auckland for the five-year period 2021–2025 are presented in Appendix D. Using OLS ($p < 0.05$), no cause exhibited a statistically significant regional (across Auckland) linear trend across the five-years. Directionally, the largest decreases were observed for roots and fats, while broken pipes showed a small, non-significant increase and unknown causes fluctuated without a significant trend. However, at the regional level, a linear model including cause effects ($\text{count} \sim \text{cause} + \text{year}$) explained 93.6% of the variance in annual counts (Adjusted $R^2 = 91.9\%$; F-test $p < 0.001$). The total frequencies of overflow causes across the region (2021–2025) are presented in Figure 3-13. The full output summary of the model is provided in Appendix E.

Catchment-specific trends

Separate OLS regressions were conducted for each catchment and cause ($p < 0.05$). Significant decreases in fats were identified in East Coast Bays, Pukekohe, Laingholm, and Beachlands Maraetai. Roots decreased significantly in Western Isthmus, Hobson Bay, Onehunga, Lower Tāmaki River, Central Auckland, Beachlands Maraetai and Shoal Bay. Additional decreases were detected for foreign objects in Henderson Creek and Waiuku, silts in Onehunga and power failures in Pukekohe. Unknown causes decreased in Helensville but increased in Omaha. Also, Devonport-Takapuna saw increase in silts as a cause over the period. Refer to Figure 3-14, Figure 3-15 and Figure 3-16 for the catchments with statistically significant trends. In contrast to prior years, broken pipes did not exhibit statistically significant increases in Onehunga, East Coast Bays, or Upper Harbour South over 2021–2025. Output summaries of the regression analysis are provided in Appendix E. Also refer to Table 3-4 for top 10 catchments with highest DWOs for the last five-years.

Under-performing catchments (2024/25 focus)

The Upper Tāmaki River, Henderson Creek, and Western Isthmus catchments again report the highest Type 3 DWO frequencies in 2024/25 and cumulatively across 2021–2025. In Upper Tāmaki

River, fats and roots remain principal drivers among known causes; both peaked earlier in the period and have since declined. Henderson Creek and Western Isthmus continue to be dominated by fats and roots. Broken pipes remain comparatively stable in Upper Tāmaki River, are a more prominent contributor in Western Isthmus, and show a gradual but not statistically significant increase in Henderson Creek over 2021–2025. Other causes fluctuate year-to-year across all three catchments. Refer Figure 3-17 for frequencies of type 3 DWOs by different causes for these three catchments.

Limitations

Our analysis employed OLS regression over a five-year window (2021–2025) to assess trends in DWOs across catchments and blockage causes. This approach provides straightforward interpretation of annual rates of change (beta coefficients) and goodness-of-fit (R^2) for each catchment-cause combination. The OLS method assumes linear trends and normally distributed residuals, which are reasonable approximations for the observed data patterns.

This analysis does not include robustness checks such as nonparametric trend tests, count-data regression models, or multiple testing corrections. The preliminary OLS results presented are broadly consistent with the visual trends observed in the data.

Table 3-4 Top 10 catchments with highest total Type-3 DWOs from 2021 to 2025

Catchment	2021	2022	2023	2024	2025	Total
Upper Tamaki River	600	533	376	396	437	2,342
Western Isthmus	487	450	294	325	362	1,918
Henderson Creek	431	387	320	395	369	1,902
East Coast Bays	449	401	307	317	286	1,760
Hobson Bay	424	415	245	255	274	1,613
Whau River	250	242	173	203	212	1,080
Shoal Bay	246	240	193	178	190	1,047
Lower Tamaki River	250	200	128	173	184	935
Onehunga	219	176	133	180	132	840
Upper Harbour South	191	192	135	143	149	810

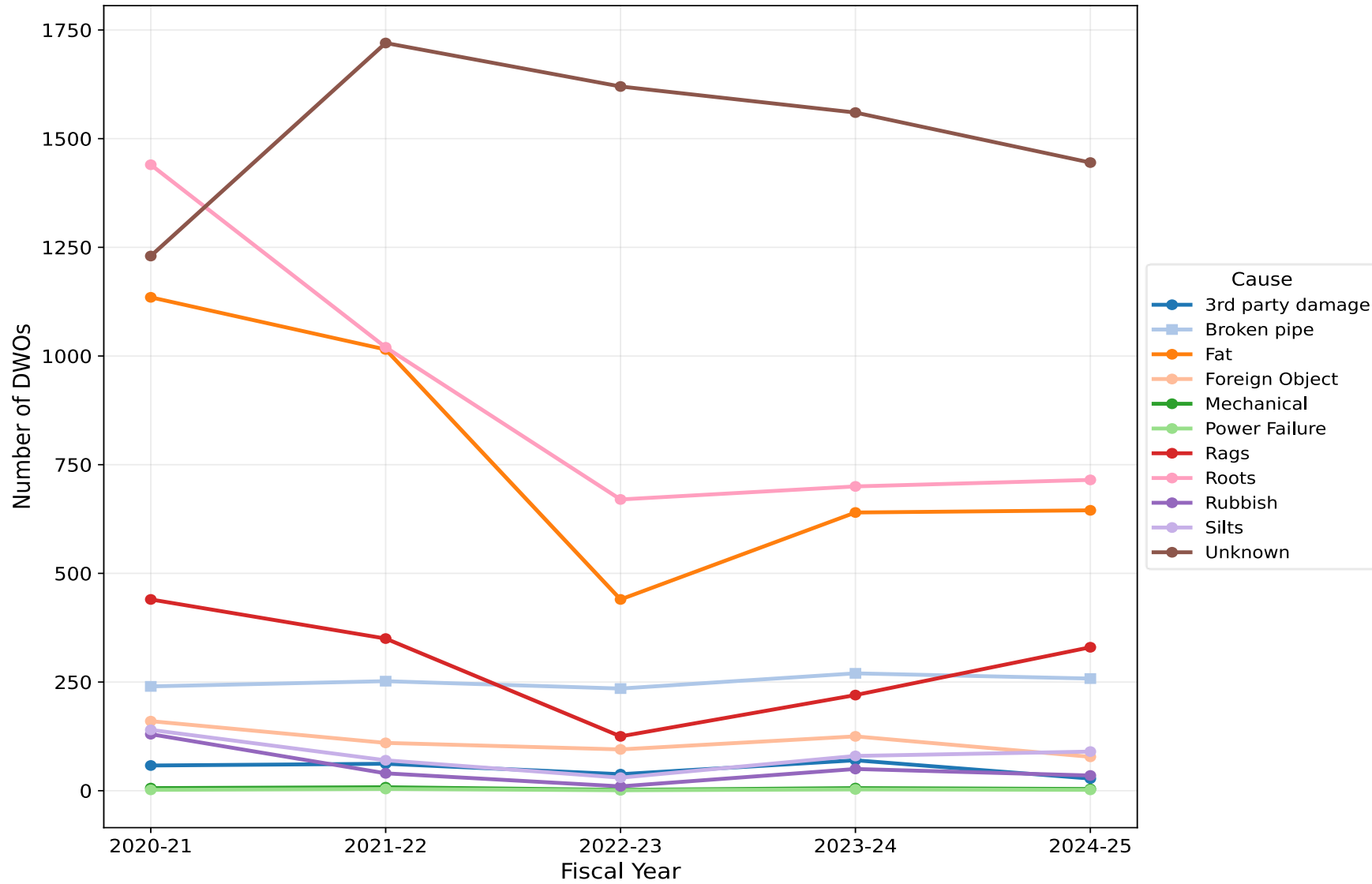


Figure 3-13 Line graph showing the number of Type-3 DWOs per year for the period 2021-2025 for different causes

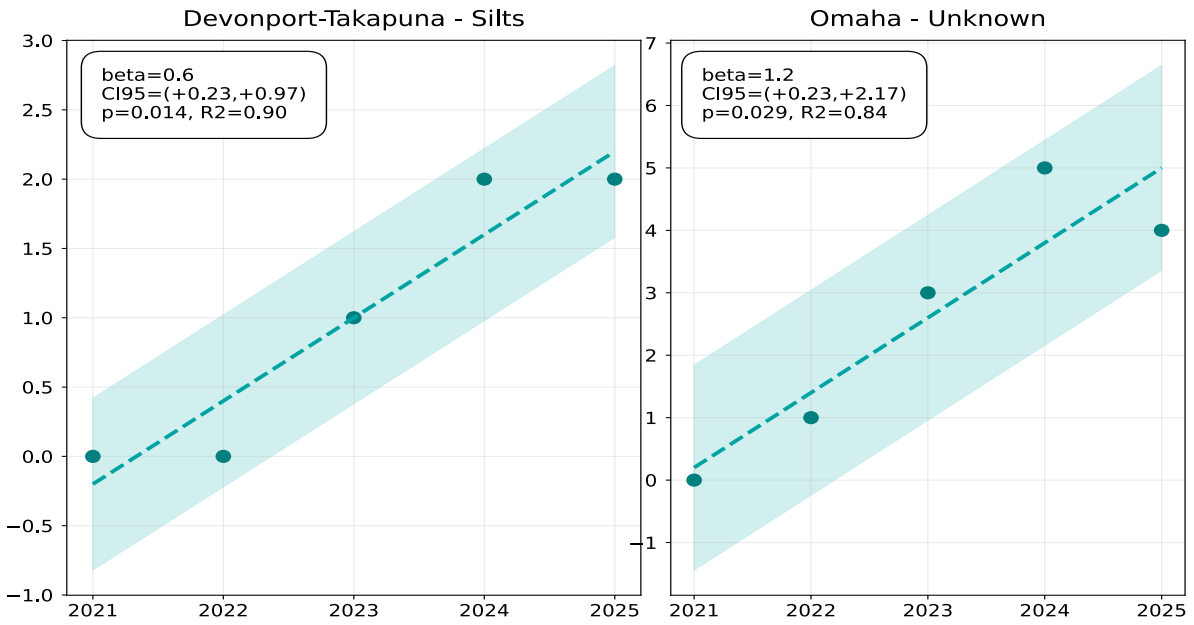


Figure 3-14 Catchments with statistically significant increasing trends for Type-3 DWOs for the period 2021-2025

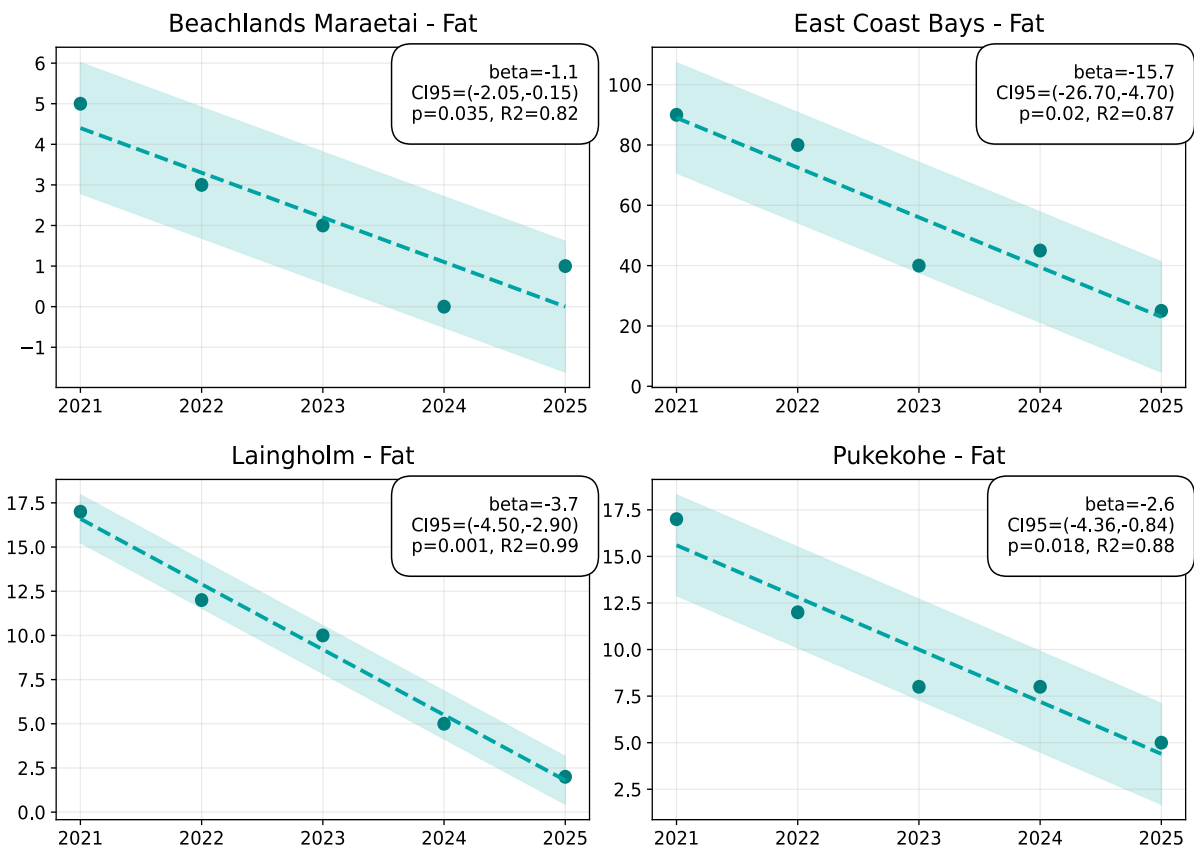


Figure 3-15 Catchments with statistically significant decreasing trends for fats

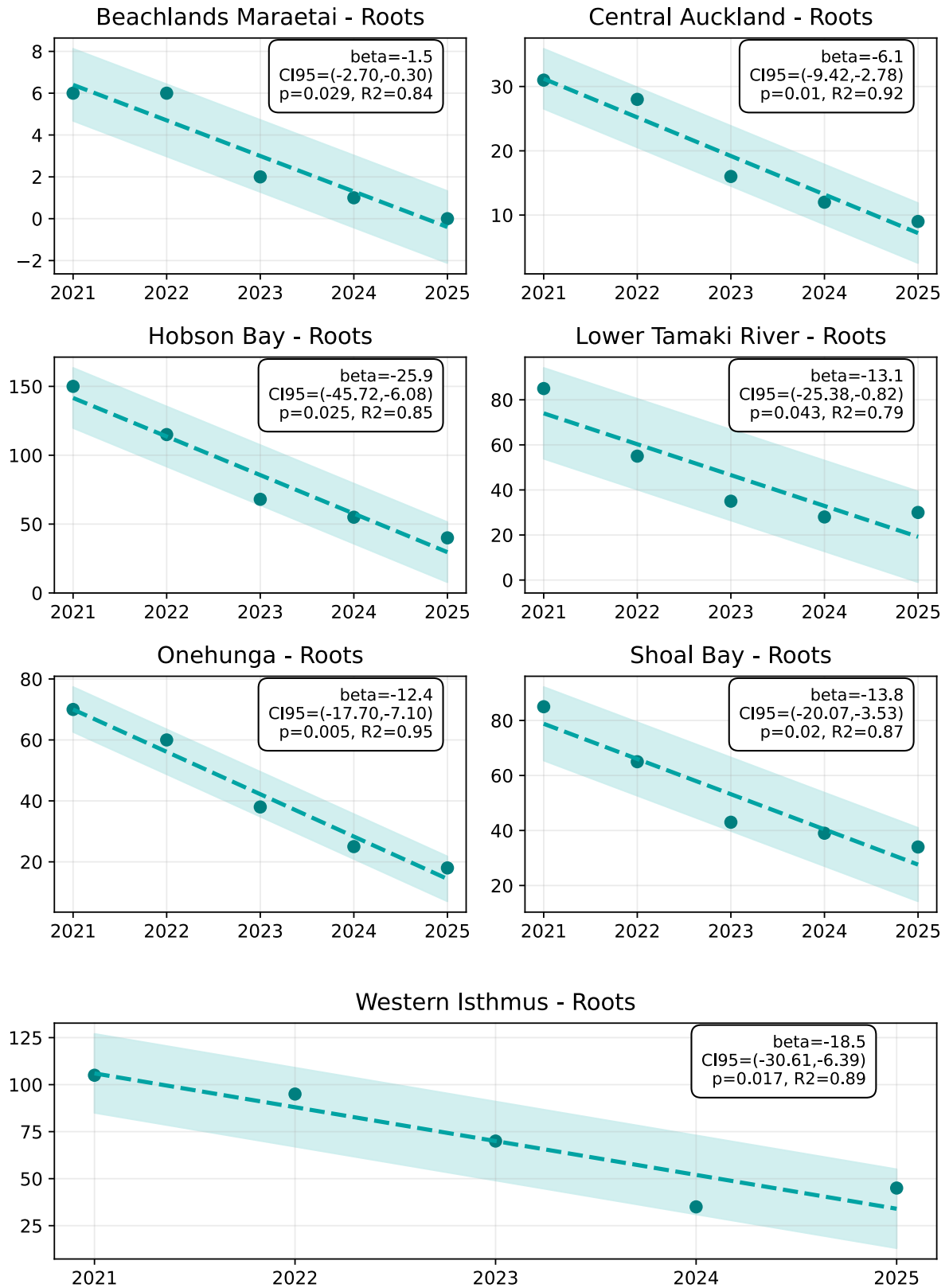


Figure 3-16 Catchments with statistically significant decreasing trends for roots

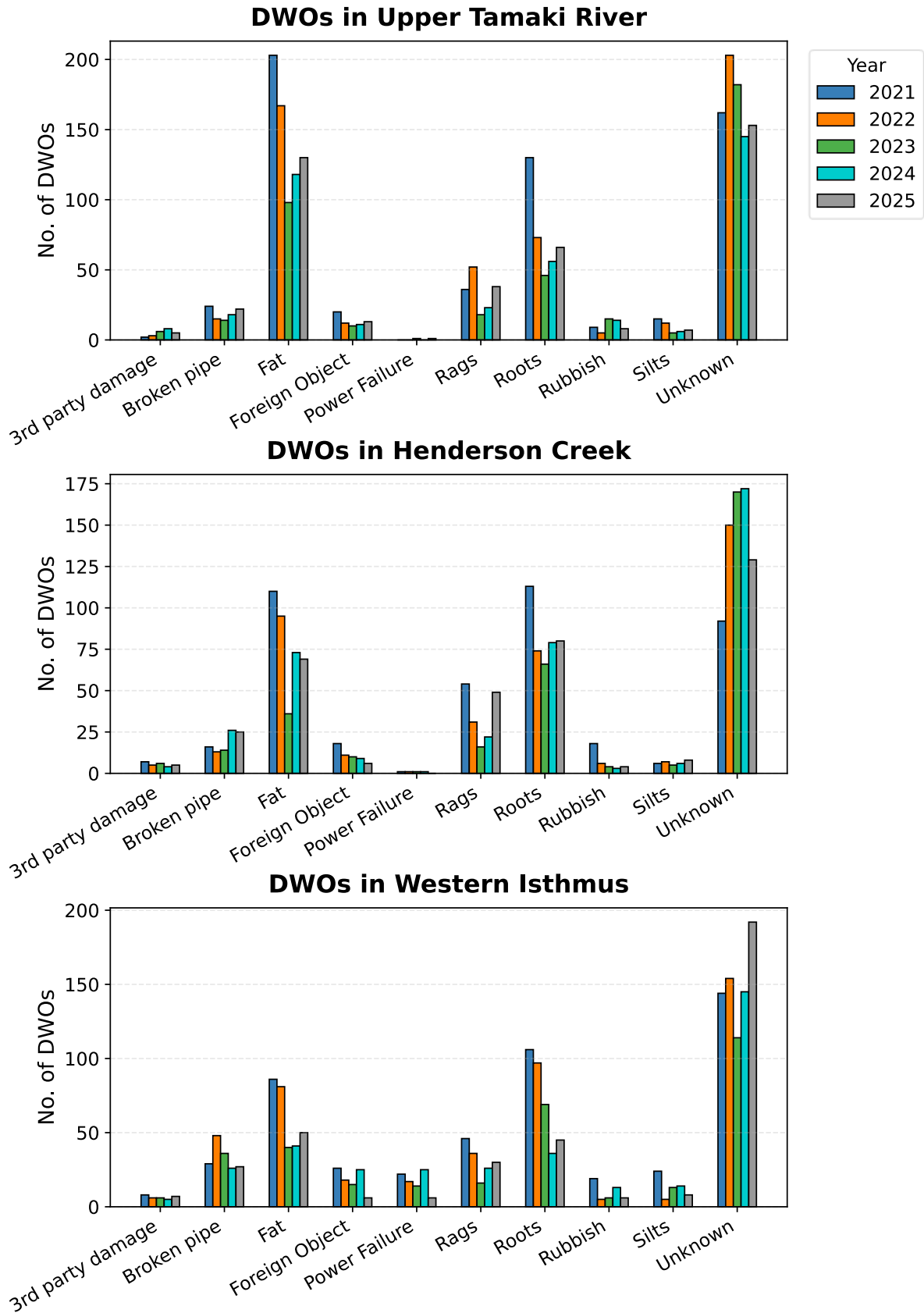


Figure 3-17 Bar graph showing the Type-3 DWO annual frequencies at Upper Tāmaki River, Henderson Creek and Western Isthmus for the period 2021-2025

4 WET WEATHER OVERFLOWS

4.1 Introduction

This section presents the analysis of WWOs from the NDC catchments in 2024-2025. The details of Type-1, Type-2, and Type-3 overflows are presented separately for the monitoring year as well as for longer-term trends. Appendix D has details of all individual WWOs from the monitoring year.

4.2 Wet weather overflows 2024-2025

Table 4-1 provides a summary of WWOs that occurred during the reporting period 1 July 2024 to 30 June 2025. A total of 1,459 WWOs were recorded across Type-1, Type-2, and Type-3 events.

Controlled WWOs from Type-1 EOPs decreased significantly, from 213 in 2023-24 to 94 in 2024-25 (a reduction of more than 44%). This represents an almost 88% reduction when compared to the 2022-23 reporting period which experienced elevated numbers due to major weather events.

Type-2 WWOs increased to 410 events, compared to 343 in 2023-24 with an increase of ≈20%. It should be noted that Type-2 WWOs (337) were under-reported in the 2023/24 period. The data presented in this report reflects the corrected figures to provide an accurate year-to-year comparison.

Type-3 WWOs increased slightly with 955 recorded events compared to 836 in the previous year (an increase of about 14%). The increase is largely attributable to inflow and infiltration effects, as well as a higher number of incidents recorded as “unknown.”

Overall, the reduction in Type-1 WWOs demonstrates ongoing improvements in the management of controlled EOP discharges. However, the rise in uncontrolled Type-3 WWOs underscores the need for continued focus on network performance monitoring, inflow and infiltration management, and refinement of overflow cause attribution.

Table 4-1 Summary and comparison of causes of WWOs between 2023-24 and 2024-25

Cause	Type 1		Type 2		Type 3		
	2023-24	2024-25	2023-24	2024-25	2023-24	2024-25	
Broken pipe	0	0	Not recorded		37	28	
Fats	0	0				111	91
Foreign objects	0	0				19	10
Rags/ wet wipes	0	0				38	44
Roots	0	0				94	100
Rubbish	0	0				4	8
Silt	0	0				13	13
Surcharge/ heavy rain	208	88				284	277
Third party damage	0	0				8	3
Unknown	1	5				225	368
Power failure	1	2				3	13
Mechanical	3	1				0	0
Total overflows	213	94		343	410	836	955

4.2.1 Type-1 overflows

During wet weather events, particularly during periods of heavy rain, multiple pump stations may overflow at the same time. Wet weather data has therefore been validated against rainfall records from rain gauges, alongside flow and level data from telemetry devices. The procedure for recording and validating pump station overflows continues to improve, and it is likely that more events are being captured now than in previous years.

The NDC requires that an average of no more than two, or the determined alternative discharge frequency (ADF), of WWOs should occur from an EOP per year. A total of 94 Type-1 WWOs were recorded during the 2024/25 reporting year across 431 Type-1 EOPs. This equates to an average of ≈ 0.22 overflows per EOP per year. The 94 Type-1 WWOs were predominantly associated with the transmission network, with 68 overflows recorded from transmission sites and 26 overflows from local networks. The catchment with the highest frequency of Type-1 WWOs was the Upper Tāmaki River (14), followed by both East Coast Bays (11) and Shoal Bay (11).

In total, 43 EOPs recorded at least one Type-1 WWO. Across the region, 24 catchments reported at least one Type-1 WWO during this period, while 12 catchments did not record any Type-1 WWOs. The distribution of catchments where there was at least one overflow is presented in Figure 4-1.

To identify underperforming pump stations, we assess a rolling five-year average WWOs and compare it to each station's ADF limit or the NDC limit of an average of no more than two WWOs per year. Using this method, 25 Type-1 EOPs are currently assessed as underperforming.

Performance in the 2024–25 reporting year shows encouraging signs: 15 of the 25 recorded two or fewer WWOs, including seven with no WWOs. The poorest-performing sites by five-year average were Lake Road (Northcote) WWPS and Seabreeze WWPS (both in Shoal Bay), followed by Te Atatū North WWPS (in Henderson) and Weiti WWPS (in Weiti). Full details are provided in Table 4-2, including planned improvement project with start and completions dates

While WWOs decreased for majority of the EOPs with rainfall comparable to the prior year, further observation next year is needed to determine if this reflects a lasting improvement. A notable improvement is Point England WWPS (EOP ID 681) in the Lower Tāmaki River (highlighted green in Table 4-2), has historically recorded high overflow frequencies but recorded zero WWOs in 2024/25 following the commissioning of the Glen Innes Pump Station at the end of June 2024.

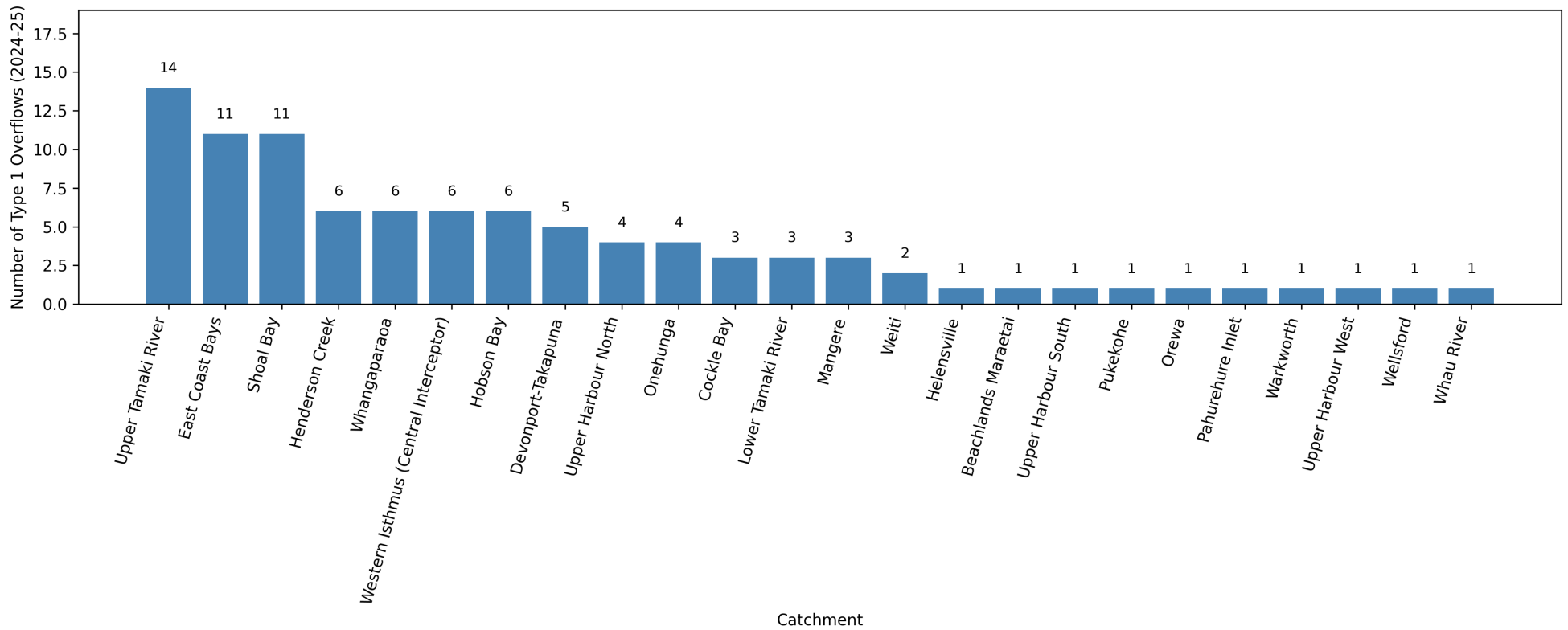


Figure 4-1 Total Type-1 WWOs per catchment for the reporting period 2024-2025

Table 4-2 Summary of poorly performing Type-1 EOPs (for WWOs) based on five-year averages

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPALC	Albany Church PS	930	East Coast Bays	6	1	2	5.6	The overflow has reduced and is under the limit this reporting year. However, WWOs have increased over the past few years. There are a number of improvement projects in place within the East Coast Bays and the Wairau Valley Diversion providing conveyance through a storage tunnel directly to Rosedale should help alleviate capacity issues in the surrounding area and in turn reduce overflows from this EOP.	Wairau Valley Diversion. For other projects in East Coast Bay refer to Table 6-2.	2022-2032 Currently in Feasibility stage.
DPALM	Alma PS	853	East Coast Bays	0	0	2	2.4	The average does not meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and within the 2 and under target.	N/A	N/A
DPARM	Armitage PS	1129	Wellsford	2	0	2.3	5	WWOs returned to lower frequencies in the last two reporting periods with zero WWO this year. There are no improvement projects planned here.	N/A	N/A
DPBAY	Bay Street PS	794	Whangaparāoa	3	0	2.9	3.4	The average does not meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and was zero this reporting year.	N/A	N/A

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPBLA	Black Rock PS	947	East Coast Bays	5	3	3.3	7	Wairau PS upgrades should significantly reduce Black Rock overflow frequencies, as it should not need the current interlock system.	Wairau Wastewater Pump Station Upgrades	2022-2032 Currently in Feasibility stage.
DPBRB	Browns Bay PS	869	East Coast Bays	2	2	2.2	2.8	The average does not meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and within the 2 and under per year limit.	N/A	N/A
DPCHH	Churchouse Road WWPS	874	Upper Harbour North	1	3	2	2.2	The average is slightly over the limit while the WWOs have returned to low counts post the 2022-23 year, except that it was one count higher than the limit this reporting year. Monitor to see if the trend continues to increase and initiate further investigations if needed.	N/A	N/A
DPCRO	Cronin PS	901	Upper Harbour South	8	1	4.5	8.8	There was only one WWO from this EOP this reporting year. However there have been high number of overflows in the past due to the configuration of the local network involving multiple gravity catchments entering the transmission branch here. Capacity in the transmission branch has been diminished by roots and gravel and flushing is ongoing. The planned Beach Haven Diversion will increase capacity in	Beach Haven Diversion	2024-2029 Currently in Feasibility stage.

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
								parts of the catchment and may alleviate some pressure here.		
DPDAL	Daltons PS	1106	Snells Beach/ Algies Bay	2	0	2	2.8	The average doesn't meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and was zero during this reporting year.	N/A	N/A
DPHOW	Howick WWPS (PS 30)	662	Cockle Bay	2	3	2.3	2.6	There seems to an increasing trend in the WWOs the last couple of years. This warrants for a localised investigations to find out the root cause.	N/A	N/A
DPLNO	Lake Road PS	830	Shoal Bay	6	5	2	10	This transmission pump station is an ageing asset that needs an upgrade. Both the pump station and the remainder of the rising main renewal works are underway and is expected to finish in December of 2025. After renewal, there should be fewer capacity related overflows from this pump station.	Renewal and upgrade of remainder of rising main and upgrade Lake Road Northcote pump station	2021-2025 Project is in execution and expected to complete end of 2025.

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPLIL	Lilburn PS	1258	Warkworth	1	0	2	3.4	WWOs was zero during this reporting period. The Warkworth to Snells transfer Pipeline should alleviate capacity constraints here, reducing or containing the number of overflows.	Warkworth to Snells Transfer Pipeline	2024-2025 Installation complete, commissioning underway
DPOTW	Otahuhu West (PS19)	680	Māngere	4	3	3.5	4.8	The average doesn't meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low including this year falling under the ADF limit.	N/A	N/A
DPOTB	Otara PS (PS31)	683	Upper Tāmaki River	9	5	3	6.8	The Otara Catchment WW Capacity Upgrades project is currently in the execution stage and will improve capacity constraints within the catchment. There was a decrease in WWOs this year compared to last year.	Otara Catchment WW Capacity Upgrades	2015- 2028 In execution. Completion in June 2028
DPPAL	Palmer PS	790	Warkworth	4	1	5.3	9.6	The overflow has reduced considerably this year and is under the ADF limit. Going forward the diversion of wet weather flows from the Western interceptors by the Northern Interceptor and along with the commissioning of the Warkworth to Snells transfer pipeline including the Warkworth Street pump station should help contain the	Warkworth to Snells Transfer Pipeline including Warkworth Street WWPS and Northern	Projects in execution and expected to finish end of 2025 and 2026

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
								overflows from this EOP within the maximum threshold.	Interceptor Stage -1	respectively.
DPPUR	Purewa Road PS	632	Hobson Bay	5	1	2	2.8	Before the extreme weather events in 2022-23, annual WWOs remained within the NDC limit. It has reduced greatly this year compared to last year and is under the limit of 2 WWOs per year.	N/A	N/A
DPSEA	Seabreeze PS	849	Shoal Bay	8	5	2	9.2	WWOs has reduced compared to last year. However, further investigations are recommended to identify the WWO root cause as it is over the threshold.	N/A	N/A
DSSIL	Silverfield WW Storage Tank	951	East Coast Bays	4	2	2	2.2	WWOs has increased in the past two years at the site. It is expected that the Forest Hill WW Main Upgrade along with the interventions to the Wairau Valley Branch TS is expected to bring down the overflow counts at this pump station. Details of these projects in Table 6-2 of section 6.	1.WWT TARP Wairau Valley Branch TS, 2.Forrest Hill WW Catchment Diversion	1. Expected completion in August 2026 2. In feasibility phase and completion expected in 2028

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPSTA	Stanmore PS	816	Whangaparāoa	5	5	2	4.8	This PS is currently unmaintainable and WWOs are high and into a bathing beach. The Stanmore PS and Rising Main upgrade is in the Feasibility stage and due to be completed in 2029. Until then, WWOs will likely remain high. However, due to the overflow configuration, it is likely we have over-reported the number of overflows from this site, data accuracy will improve after the installation of a new sensor at the discharge point.	Stanmore PS & RM Upgrade	2022-2029 In Design phase
DPTEN	Te Atatu North (PS42)	692	Henderson Creek	8	3	3	8.8	There are known capacity constraints in the local network that feed into this pump station. The Northern Interceptor is planned to divert catchments away from the Western Interceptors, reducing WWOs at various EOPs including Te Atatu. The construction of the interceptor completed in June 2025.	Northern Interceptor Stage - 1	2021 – 2026 Construction complete, connections to finish end of 2026
DPTHA	Te Hana PS	1133	Wellsford	2	0	2	3.4	The average does not meet the performance target because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and within NDC's target of 2 or less and no WWO was recorded this year.	N/A	N/A

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPWAD	Wade PS	821	Weiti	1	0	2	4.2	The average does not meet the NDC limit because of increased WWOs in 2022-23 in response to the extreme weather events in 2022-23. The remaining annual WWOs remain low and there was no WWO this year.	N/A	N/A
DPWEI	Weiti PS	822	Weiti	3	2	2	7.4	There are currently no specific improvement projects in place that would reduce WWOs at this PS. However, there are growth-related projects in Weiti aimed to remove bottlenecks within the network and improve capacity, which may reduce overflows here.	1. Silverdale West WW Rising Main 2. Penlink Wastewater Pipeline	1. Design phase, expected completion in 2031 2. In design phase and expected completion in 2035.
DPFLN	Western (PS44)	690	Henderson Creek	5	3	5.3	7	The Northern Interceptor project completed in June 2025 and is expected to reduce controlled overflows from EOPs and provide additional capacity to the Western Interceptor which DPFLN feeds into once it becomes fully operational.	Northern Interceptor Stage - 1	2021 – 2026 Construction complete, connections to finish end of 2026

Facility	Name	EOP ID	Catchment	2023-24	2024-25	NDC/ADF Limit*	five-year average	Comments and planned improvement projects	Project name**	Estimated start-completion date
DPWOR	Worker Road PS	1128	Wellsford	3	1	2.8	5.6	WWOs have reduced from this EOP and is under the limit of 2 this year. There are no improvement projects planned here	N/A	N/A
DPENG	Pt England WWPS	681	Lower Tamaki River	10	0	4.0	5.2	The commissioning of Glen Innes pump station in June 2024 has resulted in this outcome.	N/A	N/A

*NDC/ADF Limit refers to either the Network Discharge Consent Condition 9(a) limitations of not more than 2 overflows per year or the calculated Alternate Discharge Frequency (ADF) per year for that EOP as per the WW Network Strategy whichever is applicable. **Refer to section 6 for further details on the projects.

4.2.2 Type-2 overflows

Type-2 EOPs are designed as controlled reliefs during elevated flows to protect private property from wastewater spills. As noted in Section 3.2.2, alarms from Type-2 EOPs are indicative only, as they are not subject to field validation. A total of 96 Type-2 EOPs are currently telemetered. Their purpose is to highlight potential problem sites and areas. Wet and dry weather classification continue to be determined based on the total rainfall in the preceding 24 hours, rather than by confirming the hydraulic cause (e.g. surcharging). It is also noted that only a fraction of Type-2 sites are fitted with telemetry, meaning the alarm frequencies reported here are not representative of total network performance.

For the 2024/25 reporting period, there were 410 Type-2 WWO alarms recorded across 65 of the 96 telemetered sites, an increase of ~20% compared with the previous year. The poorest performing catchment was once again Hobson Bay, which recorded 173 alarms across 30 EOP sites (Figure 4-2). Other catchments with high frequencies included Henderson Creek (63 alarms) and the Western Isthmus (54 alarms).

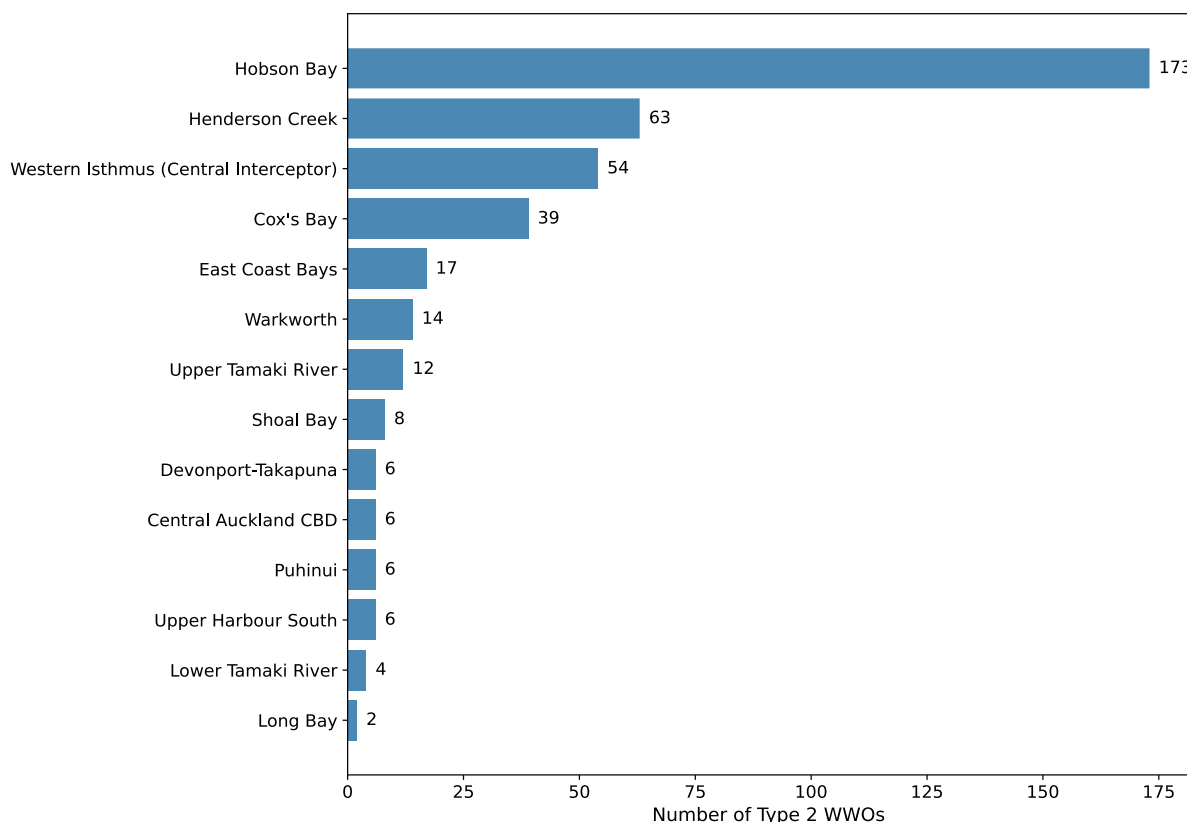


Figure 4-2 Total Type-2 WWOs per catchment for reporting period 2024-2025

Given historical uncertainties in Type-2 overflow records, performance is assessed using only the past two reporting periods to derive a two-year average WWOs per EOP. This two-year average is compared with each EOP’s ADF-based limit or the NDC limit of no more than two WWOs per year. Using this method, 25 Type-2 EOPs are assessed as underperforming. The poorest-performing EOPs by two-year average were EOP 193 (35 Yattendon Road, Hobson Bay), EOP 740 (Branch 5 Herne Bay MH23/Argyle Street, Cox’s bay), and EOP 1629 (2/29, Raven Avenue, Western Isthmus). Full details of Type-2 overflows can be found in Appendix D, and a summary of their performance can be found in Table 4-3.

Table 4-3 Summary of Type-2 EOP performance based on annual average WWOs for each EOP over two years

Catchment	EOP ID	Asset Name/ Address	2023-24 Overflows	2024-25 Overflows	NDC/ADF limit*	Average of Overflows	Compliance of Average	Compliance of 2024-25
Central Auckland CBD	123	12 Mayoral Drive, Auckland CBD	0	2	2.0	1.0	Achieved	Achieved
Central Auckland CBD	128	11 Victoria Street East	4	3	56.0	3.5	Achieved	Achieved
Central Auckland CBD	172	1 London Street	2	0	64.0	1.0	Achieved	Achieved
Central Auckland CBD	178	43 College Hill	2	0	2.0	1.0	Achieved	Achieved
Central Auckland CBD	712	Branch 5 Herne Bay MH2A	17	1	62.0	9.0	Achieved	Achieved
Cox's Bay	198	22 Marine Parade	6	0	74.0	3.0	Achieved	Achieved
Cox's Bay	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	0	2	68.0	1.0	Achieved	Achieved
Cox's Bay	202	69 Hamilton Road	2	4	29.0	3.0	Achieved	Achieved
Cox's Bay	230	42 Wharf Road	2	7	45.0	4.5	Achieved	Achieved
Cox's Bay	267	216 Garnet Rd, Westmere	0	5	2.0	2.5	Under	Under
Cox's Bay	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	0	21	2.0	10.5	Under	Under
Devonport- Takapuna	848	1 Old Lake Rd, Narrow Neck	8	6	2.9	7.0	Under	Under
East Coast Bays	1576	16 Jutland St	2	4	2.0	3.0	Under	Under
East Coast Bays	1595	11 Jonathan Place	7	6	2.0	6.5	Under	Under
East Coast Bays	834	28 Penning Road	6	7	2.0	6.5	Under	Under

Catchment	EOP ID	Asset Name/ Address	2023-24 Overflows	2024-25 Overflows	NDC/ADF limit*	Average of Overflows	Compliance of Average	Compliance of 2024-25
Henderson Creek	1539	Blethyn Place Reserve	4	11	2.0	7.5	Under	Under
Henderson Creek	1583	16 Matipo Rd	7	7	13.0	7.0	Achieved	Achieved
Henderson Creek	1604	10 Celsmere Lane	8	8	30.0	8.0	Achieved	Achieved
Henderson Creek	6	50 Kingdale Road	7	11	33.0	9.0	Achieved	Achieved
Henderson Creek	748	Central Park Drive, Henderson	4	8	10.0	6.0	Achieved	Achieved
Henderson Creek	8	Chilcott Road, Henderson	0	18	2.0	9.0	Under	Under
Hobson Bay	1574	Judges Bay Road, Parnell	0	3	2.0	1.5	Achieved	Under
Hobson Bay	1580	4 St Marks Rd	1	5	2.0	3.0	Under	Under
Hobson Bay	1598	21 Ayr Street	1	5	2.0	3.0	Under	Under
Hobson Bay	160	45 Ascot Avenue	5	5	38.0	5.0	Achieved	Achieved
Hobson Bay	1630	35 James Cook Cres, Remuera	2	3	2.0	2.5	Under	Under
Hobson Bay	193	35 Yattendon Road	10	19	10.0	14.5	Under	Under
Hobson Bay	213	59 Baddeley Avenue	7	8	5.0	7.5	Under	Under
Hobson Bay	215	74 Hawera Road	4	4	2.0	4.0	Under	Under
Hobson Bay	281	49 Ngapuhi Road	12	11	34.0	11.5	Achieved	Achieved
Hobson Bay	285	77 Meadowbank Road	4	7	56.0	5.5	Achieved	Achieved
Hobson Bay	350	44 Rukutai Street	4	5	33.0	4.5	Achieved	Achieved
Hobson Bay	352	49 Rukutai Street, Orakei	0	6	2.0	3.0	Under	Under
Hobson Bay	353	2b Nihill Cres, Misson Bay	5	5	30.0	5.0	Achieved	Achieved
Hobson Bay	420	14 Mahuru Street	3	12	60.0	7.5	Achieved	Achieved

Catchment	EOP ID	Asset Name/ Address	2023-24 Overflows	2024-25 Overflows	NDC/ADF limit*	Average of Overflows	Compliance of Average	Compliance of 2024-25
Hobson Bay	421	29 Ayr Street A	3	4	10.0	3.5	Achieved	Achieved
Hobson Bay	451	27 Ngapipi Road, Orakei	0	8	2.0	4.0	Under	Under
Hobson Bay	452	18 Ngapipi Road, Orakei	6	7	2.0	6.5	Under	Under
Hobson Bay	453	12a Okahu Street	3	6	2.0	4.5	Under	Under
Hobson Bay	454	34-36 Apihai Street	5	4	3.0	4.5	Under	Under
Hobson Bay	455	63 Reihana Street	2	5	2.0	3.5	Under	Under
Hobson Bay	458	88 Paritai Drive	4	5	34.0	4.5	Achieved	Achieved
Hobson Bay	495	43 Tohunga Street	2	0	8.0	1.0	Achieved	Achieved
Hobson Bay	503	68 Portland Road	6	7	9.0	6.5	Achieved	Achieved
Hobson Bay	504	20 Standen Avenue	1	5	12.0	3.0	Achieved	Achieved
Hobson Bay	505	9 Scherff Road	3	4	16.0	3.5	Achieved	Achieved
Hobson Bay	506	20 Hapua Road	1	1	23.0	1.0	Achieved	Achieved
Hobson Bay	508	32 Hapua Street	6	5	41.0	5.5	Achieved	Achieved
Hobson Bay	509	113 Brighton Road, Parnell	0	1	2.0	0.5	Achieved	Achieved
Hobson Bay	511	158 Bassett Road	5	6	40.0	5.5	Achieved	Achieved
Hobson Bay	514	63 Tahapa Crescent	4	5	8.0	4.5	Achieved	Achieved
Hobson Bay	515	11 Purewa Road	1	0	3.0	0.5	Achieved	Achieved
Hobson Bay	711	Branch 3 Newmarket MH 29-Broadway/St Marks Roads, Newmarket	6	2	4.0	4.0	Achieved	Achieved
Long Bay	832	47 Glenvar Road, Torbay	0	2	2.0	1.0	Achieved	Achieved
Lower Tamaki River	1406	61 - 67 Felton Matthew Ave	2	2	3.0	2.0	Achieved	Achieved
Lower Tamaki River	188	6 Concord Place	14	0	63.0	7.0	Achieved	Achieved
Lower Tamaki River	596	197-209 Taniwha Street	5	2	7.0	3.5	Achieved	Achieved

Catchment	EOP ID	Asset Name/ Address	2023-24 Overflows	2024-25 Overflows	NDC/ADF limit*	Average of Overflows	Compliance of Average	Compliance of 2024-25
Puhinui	1535	145-147 Wyllie Road	5	6	2.0	5.5	Under	Under
Shoal Bay	829	28 Waitemata Road	7	8	2.0	7.5	Under	Under
Upper Harbour South	844	28 Gazelle Road	7	6	16.3	6.5	Achieved	Achieved
Upper Tamaki River	1534	22 Graeme Avenue	2	7	6.0	4.5	Achieved	Under
Upper Tamaki River	1549	14 McLean Ave	3	5	7.0	4.0	Achieved	Achieved
Upper Tamaki River	747	Otahuhu East Diversion Branch MH4A	1	0	5.0	0.5	Achieved	Achieved
Warkworth	1540	Elizabeth Street	9	14	20.5	11.5	Achieved	Achieved
Western Isthmus	146	68 Smale Street	9	8	18.0	8.5	Achieved	Achieved
Western Isthmus	1531	68 Olsen Ave	2	1	5.0	1.5	Achieved	Achieved
Western Isthmus	1589	153 Whitney Street	7	6	6.0	6.5	Under	Achieved
Western Isthmus	1629	2/29 Raven Ave	7	12	2.0	9.5	Under	Under
Western Isthmus	309	29 Euston Road	3	1	2.0	2.0	Achieved	Achieved
Western Isthmus	571	102 Penny Avenue, Mt. Roskil	0	11	2.0	5.5	Under	Under
Western Isthmus	728	Branch 8 Mt Albert MH31	15	0	68.0	7.5	Achieved	Achieved

Catchment	EOP ID	Asset Name/ Address	2023-24 Overflows	2024-25 Overflows	NDC/ADF limit*	Average of Overflows	Compliance of Average	Compliance of 2024-25
Western Isthmus	732	MH38 Pasadena Ave Sewer Overflow Level	11	1	25.0	6.0	Achieved	Achieved
Western Isthmus	734	Edendale Branch MH1	14	14	64.0	14.0	Achieved	Achieved
Western Isthmus	739	Branch 8 Mt Albert MH7	15	0	66.0	7.5	Achieved	Achieved
Whau River	752	Rosebank Siphon MH1A	1	0	2.0	0.5	Achieved	Achieved

**NDC/ADF Limit refers to either the Network Discharge Consent Condition 9(a) limitations of not more than 2 overflows per year or the calculated Alternate Discharge Frequency (ADF) per year for that EOP as per the WW Network Strategy whichever is applicable.

The poorest performing EOPs that have not met their performance target based on both the average and this year's frequencies are presented in Table 4-4. This table provides details about the EOPs and the projects planned to reduce capacity constraints and subsequent overflows. All details of newly commissioned, installed and decommissioned Type-2 EOPs can be found in the Overflow Point Schedule in Appendix D.

Table 4-4 Poorest performing EOPs and the projects planned to improve performance

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
Cox's Bay	267	216 Garnet Rd, Westmere	2.5	2	WIWQIP Westmere WW Catchment Improvement Works will help alleviate overflows from EOPs in the catchment.	2023-2031 Currently in feasibility phase
Cox's Bay	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	10.5	2	WIWQIP Herne Bay WW Branch 5 upgrade project is expected to reduce overflows from multiple EOPs including EOP 740.	2022-2028 In design phase
Devonport-Takapuna	848	1 Old Lake Rd, Narrow Neck	7.0	2.9	Forrest Hill Catchment Diversion may help alleviate capacity constraints in this area once it becomes fully operational.	2022 – 2028 In feasibility phase
East Coast Bays	1576	16 Jutland St	3.0	2	Mairangi Bay Gravity Wastewater Sewer Upgrade is targeted at performance improvements and contain overflow from this EOP.	2023 – 2026 In design phase
East Coast Bays	1595	11 Jonathan Place	6.5	2	Jonathan Place Pipe Upgrades project is in execution and	2021 – 2026 In execution

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
					estimated to be complete in 2026. This project will ensure this EOP will reach 2 or less NDC target	
East Coast Bays	834	28 Penning Road	6.5	2	The Forrest Hill WW Catchment Diversion will help reduce controlled overflows into local swim areas within the Forest Hill and Milford areas	2022 – 2028 In feasibility phase
Henderson Creek	1539	Blethyn Place Reserve	7.5	2	The Norther Interceptor will divert wet weather flows from the Western Interceptors, reducing capacity constraints and overflows in Te Atatu. The Northern Interceptor Stage -1 construction completed in June 2025. Commissioning to complete end of 2026. Stage 2 & 4 will be completed end of 2029 & 2036.	Stage 1: 2021 – 2026 Construction complete, connections to finish end of 2026
Henderson Creek	8	Chilcott Road, Henderson	9.0	2	The Norther Interceptor will divert wet weather flows from the Western Interceptors, reducing capacity	Stage 1: 2021 – 2026 Construction complete, connections to finish end of 2026

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
					constraints and overflows in Te Atatu. The Northern Interceptor Stage -1 construction completed in June 2025. Commissioning underway. Stage 2 & 4 will be completed end of 2029 & 2036.	
Hobson Bay	1580	4 St Marks Rd	3.0	2	No Improvement works are planned for this EOP. There has been considerable increase of overflows at this EOP this year. It is recommended to monitor further and conduct localised investigations to find the root cause of the issue. However, we may expect the the Newmarket Gully Storage Tunnel project to have positive impacts on the overflows at this EOP.	N/A
Hobson Bay	1598	21 Ayr Street	3.0	2	Newmarket Gully Storage Tunnel project is expected to alleviate overflows in this area and catchment overall.	2023 – 2030 In feasibility phase

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
Hobson Bay	1630	35 James Cook Cres, Remuera	2.5	2	Newmarket Gully Storage Tunnel project is expected to alleviate overflows in the catchment including this EOP.	2023 – 2030 In feasibility phase
Hobson Bay	193	35 Yattendon Road	14.5	10	No improvement projects are planned to target this EOP. There has been almost two-fold spike in the number of overflows this year compared to last year. Further investigations may be required.	N/A
Hobson Bay	213	59 Baddeley Avenue	7.5	5	There are no improvement projects planned to reduce overflows from this EOP. The WWOs this year are on par with last year's.	N/A
Hobson Bay	215	74 Hawera Road	4.0	2	There are no improvement projects planned for this specific area of Hobson Bay. The WWOs are consistent over the last two years.	N/A
Hobson Bay	352	49 Rukutai Street, Orakei	3.0	2	There are no improvement projects planned in this area. There has been steep increase in the WWOs from zero to 6 this	N/A

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
					year. Localised investigations are recommended.	
Hobson Bay	451	27 Ngapipi Road, Orakei	4.0	2	There are multiple WW pipe renewals (FY26 Local WW pipe renewals - Orakei) in this area of Hobson Bay scheduled to finish mid next year. It is expected that the overflows from a number of EOPs in the area is expected to reduce.	2024 – 2026 In design phase
Hobson Bay	452	18 Ngapipi Road, Orakei	6.5	2	There are multiple WW pipe renewals (FY26 Local WW pipe renewals - Orakei) in this area of Hobson Bay scheduled to finish mid next year. It is expected that the overflows from a number of EOPs in the area is expected to reduce.	2024 – 2026 In design phase
Hobson Bay	453	12a Okahu Street	4.5	2	There are multiple WW pipe renewals (FY26 Local WW pipe renewals - Orakei) in this area of Hobson Bay scheduled to finish mid next year. It is expected that the overflows from a	2024 – 2026 In design phase

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
					number of EOPs in the area is expected to reduce.	
Hobson Bay	454	34-36 Apihai Street	4.5	3	There are multiple WW pipe renewals (FY26 Local WW pipe renewals - Orakei) in this area of Hobson Bay scheduled to finish mid next year. It is expected that the overflows from a number of EOPs in the area is expected to reduce.	2024 – 2026 In design phase
Hobson Bay	455	63 Reihana Street	3.5	2	There are multiple WW pipe renewals (FY26 Local WW pipe renewals - Orakei) in this area of Hobson Bay scheduled to finish mid next year. It is expected that the overflows from a number of EOPs in the area is expected to reduce.	2024 – 2026 In design phase
Puhinui	1535	145-147 Wyllie Road	5.5	2	There are no improvement projects planned for this catchment. The sudden increase in overflows reported in the last two years will require localised investigation.	N/A

Catchment	EOP ID	Asset Name/ Address	Average of Overflows	NDC/ ADF limit	Solutions to Improve Performance	Expected Start/Completion Date
Shoal Bay	829	28 Waitemata Road	7.5	2	There are no improvement projects planned for this specific area. Localised investigations is recommended for implementation.	N/A
Western Isthmus	1629	2/29 Raven Ave	9.5	2	The Central Interceptor is expected to improve performance of this EOP.	2019 – 2026 Commissioning underway
Western Isthmus	571	102 Penny Avenue, Mt. Roskil	5.5	2	‘WIWQIP Avondale Lynfield Branch to Haycock Shaft’ project is targeted at reducing the overflows in this area including this EOP.	2024 – 2033 In feasibility stage.

4.2.3 Type-3 overflows

Type-3 WWOs represent all uncontrolled spills onto private or public property from the wastewater network. These events occur after a 24-hour period with more than 10 mm of rainfall or may be attributed to surcharging within the system. Unlike controlled discharges from EOPs, there are no compliance targets for Type 3 uncontrolled WWOs. However, monitoring these events remains essential as it highlights network capacity constraints, identifies priority areas for I&I investigations, and informs performance tracking of the wastewater network.

During the 2024/25 reporting period, there were 955 Type-3 WWOs, compared to 836 in 2023/24 (Table 4-5). This increase reverses last year’s downward trend and suggests that capacity and wet-weather resilience pressures remain significant in some catchments. We have recorded 72 Type 3 WWOs from the transmission network, compared to 29 in the previous reporting period.

Of the 955 Type-3 WWOs reported, 587 of these have known causes. Of these 587 WWOs, only 277 are attributed to surcharging caused by wet weather, whereas 294 overflows can be attributed to breaks or blockages within the network, i.e. roots, fats, rags, broken pipes etc. Full details of Type 3 overflows are provided in Appendix D.

Table 4-5 Comparison of Type-3 WWO totals and causes (expressed as a percentage of the total) per year for the period 2022 to 2025

	2022-2023	2023-2024	2024-2025
Total overflows	2,326	836	955
Known blockages & broken pipes	17%	39%	31%
Surcharging	66%	34%	29%
3rd party damage, mechanical/power failure and unknowns	17%	27%	40%

The poorest-performing catchments in 2024/25 were:

- East Coast Bays – 101 WWOs
- Upper Tamaki River – 101 WWOs
- Western Isthmus (Central Interceptor) – 100 WWOs
- Henderson Creek – 97 WWOs
- Hobson Bay – 63 WWOs

Collectively, these five catchments contributed 462 WWOs (48% of the total), underscoring an ongoing concentration of overflows in areas historically under pressure. A comparison of catchment totals between the 2023-24 and 2024-25 periods are presented in Figure 4-3. When compared with the 2023/24 results, the composition of the worst-performing group remains largely unchanged, with only slight shifts in their relative positions. This shows a persistent pattern of chronic stress across the same set of catchments, with no significant improvement in their performance year-on-year.

Conversely, several catchments recorded no uncontrolled WWOs this year, including Oneroa (no overflows in this catchment for the last few years), Kumeū/Huapai/Riverhead, Waiwera, and Devonport- Takapuna, demonstrating the varying exposure to overflow risk across the region.

Frequency relative to pipe length

When benchmarked against network size, the highest frequency per kilometre of pipe occurred in Central Auckland CBD (0.28 WWOs/km), followed by East Coast Bays (0.19 WWOs/km) and Upper Harbour South (0.18 WWOs/km). In Central Auckland CBD and Upper Harbour South, relatively small networks experience disproportionately high spill frequencies due to density and capacity stress. In East Coast Bays, although the network is extensive (over 510 km of pipe), I&I challenges and system constraints continue to produce both high per-km ratios and the highest absolute total of WWOs. Details of all catchment frequency ratios is presented in Figure 4-4

Differences in incident levels

During 2024/25, 57 overflows entered the stormwater system or natural waterways. This is an improvement on the 84 Level-2 and upwards incidents reported in 2023/24 and shows continuing reductions in the severity of uncontrolled overflows where they intersect with sensitive environments. Of these, only six were classified as Level-3 incidents (significant overflow), and none were Level-4 (major overflow) which still is an increase from last year which had only four Level 3 and upwards incidents.

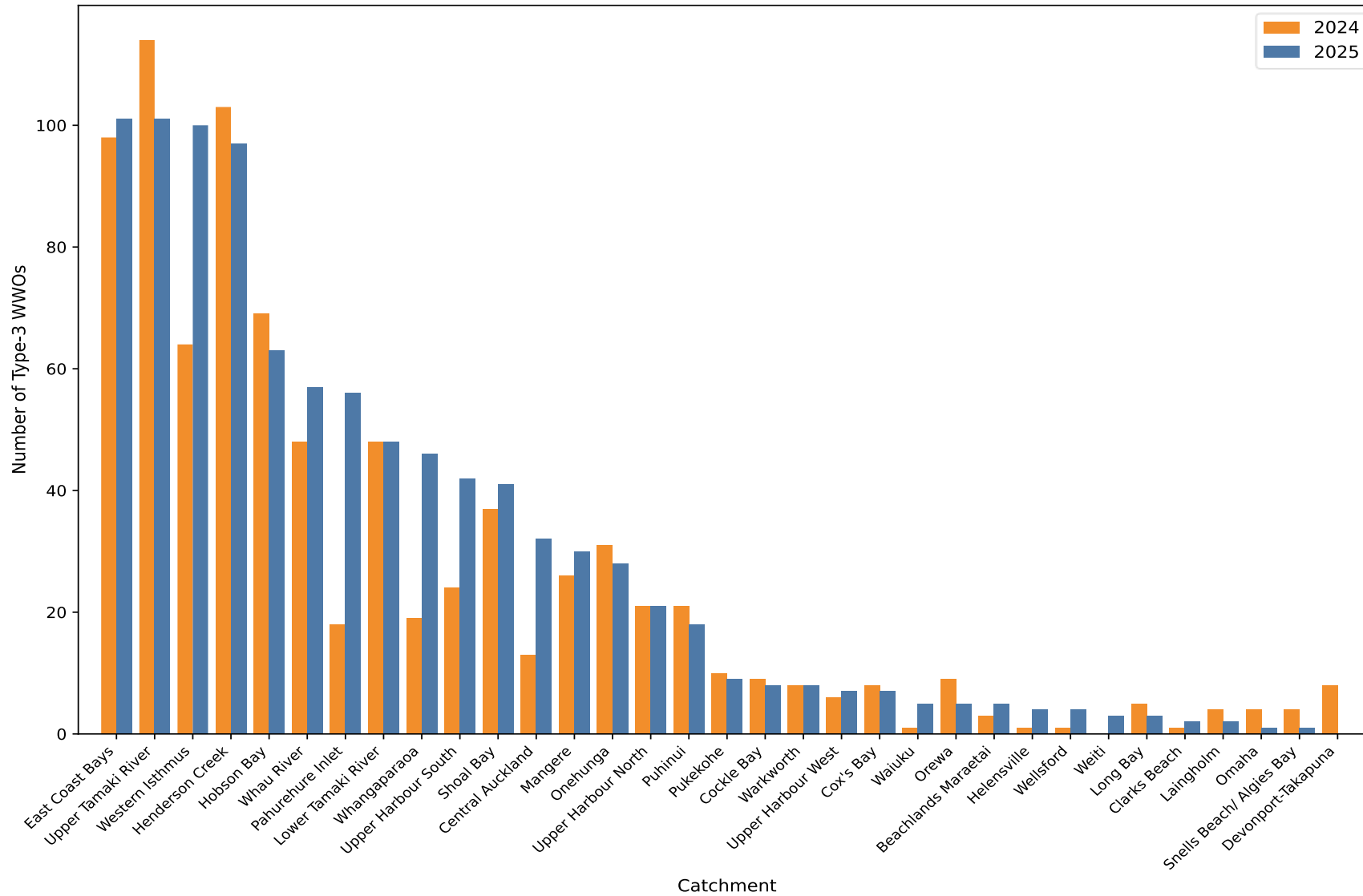


Figure 4-3 Comparison of total number of Type-3 WWOs per catchment during current (2024/25) and previous reporting period (2023/24)

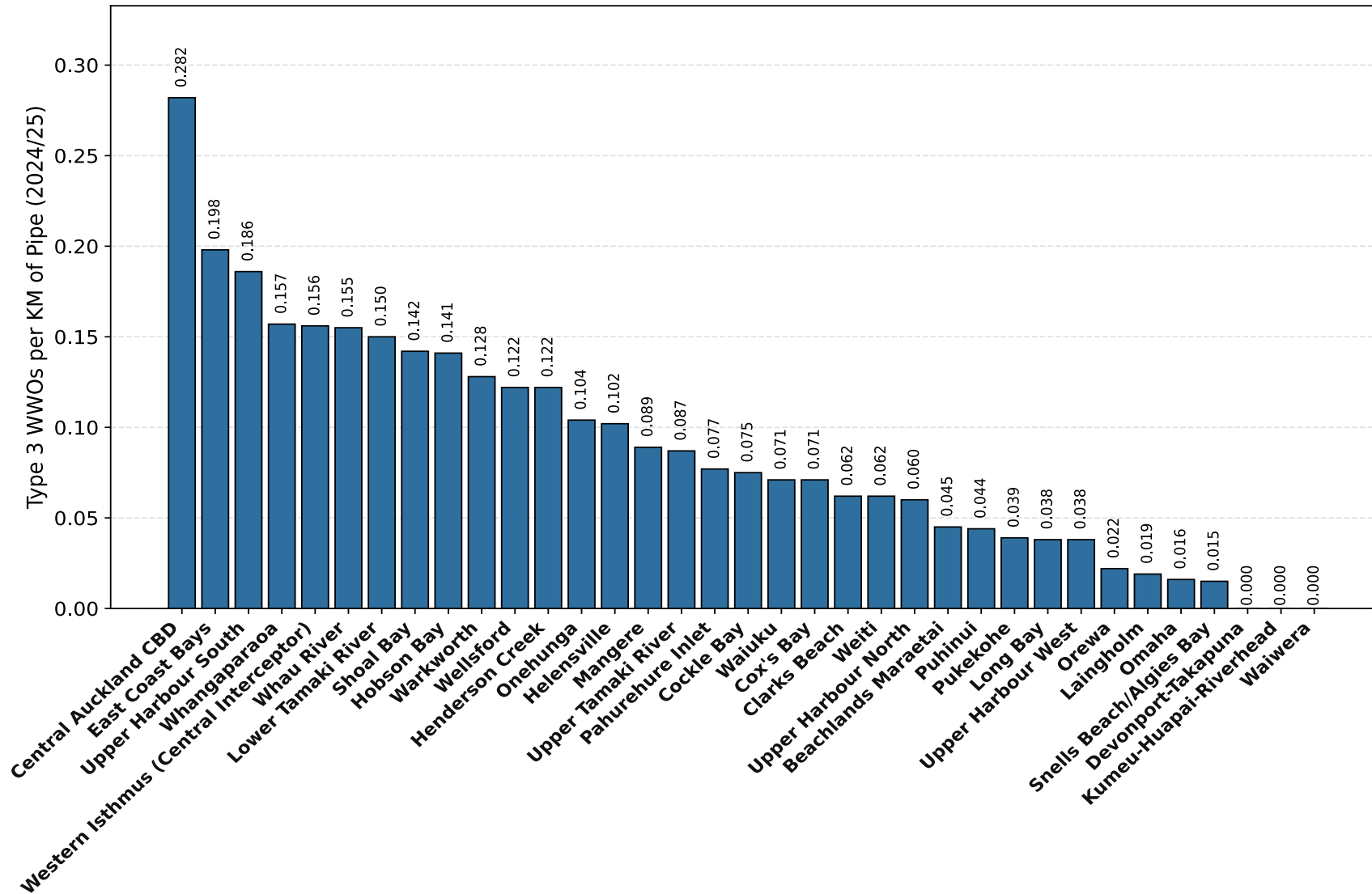


Figure 4-4 Local Type-3 WWOs per 1 km of wastewater network pipe per catchment in 2024-2025

Repeat WWOs

Repeat WWOs can suggest capacity constraints or infiltration and inflow issues that may need further investigating to resolve. The catchments with the highest number of repeat WWO sites where it overflowed more than twice in the reporting period are:

- East Coast Bays with 13 sites
- Henderson creek with 6 sites
- Upper Tāmaki River, Upper Harbour South and Whau River with 5 sites each

A summary of the number of repeat wet weather issues and engineer-led investigations can be found in Table 4-6. The catchment with the highest number of engineer-led investigations was Pahurehure inlet.

Table 4-6 Summarising number of wet weather engineer-led investigations per catchment for the reporting period 2024-2025

Catchment	No. of repeat sites	No. of Engineer Investigations
Beachlands Maraetai	1	1
Central Auckland CBD	2	0
Cockle Bay	1	0
East Coast Bays	13	3
Henderson Creek	6	1
Hobson Bay	2	3
Lower Tamaki River	1	1
Mangere	2	3
Pahurehure Inlet	4	5
Shoal Bay	2	2
Upper Harbour South	5	2
Upper Harbour West	1	0
Upper Tamaki River	5	3
Western Isthmus (Central Interceptor)	3	1
Whangaparaoa	3	2
Whau River	5	1

4.3 Wet weather overflows trend analysis

4.3.1 Introduction

The trend analysis performed on historical Type-1 WWOs uses a rolling five-year average. For Type-2 WWOs (provisional and not validated), we limit analysis to a simple year-on-year comparison of the reporting year against the preceding year; the provisional status of these data constrains the application of more detailed statistical techniques. The trend analysis used for Type-3 WWOs uses annualised data and two techniques:

- Visual assessment
- Statistical analysis using simple linear regression models

Analyses were conducted using a p-value threshold of <0.05 for significance and <0.10 for emerging significance. Given that each series comprises only five annual observations, we intentionally keep methods parsimonious and do not apply more complex tests such as Kendall or Mann–Kendall.

4.3.2 Type-1 trends

Of the 431 operational Type-1 EOPs, there have been overflows from 226 of them between July 2017 and June 2025. Furthermore, as stated in Section 4.2.1, only 43 Type-1 EOPs overflowed during the 2024-2025 reporting period. Analysis of the 226 Type-1 indicates that 15 have not recorded a WWO since July 2017, 26 since July 2019, 43 since July 2021 and 144 pump stations have not recorded an overflow since July 2023. Details of the rolling five-year averages for each of the 226 Type-1 EOPs and the trends observed is provided in Appendix D and summarised in Figure 4-5.

Comparison of the latest five-year averages, ADFs and the consent's not more than 2 overflows per year on average limit, has been discussed in Section 4.2.1. From this we concluded that 25 Type-1 EOPs were found to be under performing. From the trend analysis provided in Appendix D, we have determined four of these EOPs show no change in overflow frequencies, 10 show an increasing trend of overflows and the following 11 show a decreasing trend:

- Te Atatu North WWPS (PS42) in Henderson Creek
- Black Rock WWPS in East Coast Bays
- Western WWPS (PS44) in Henderson Creek
- Armitage WWPS in Wellsford
- Bay Street WWPS in Whangaparoa
- Alma WWPS in East Coast Bays
- Browns Bay WWPS in East Coast Bays
- Palmer WWPS in Warkworth
- Cronin WWPS in Upper Harbour South
- Worker Road WWPS in Wellsford
- Purewa Road WWPS in Hobson Bay

All of the 25 under-performing pump stations are listed in Table 4-2 along with planned projects aimed to mitigate these high overflow frequencies.

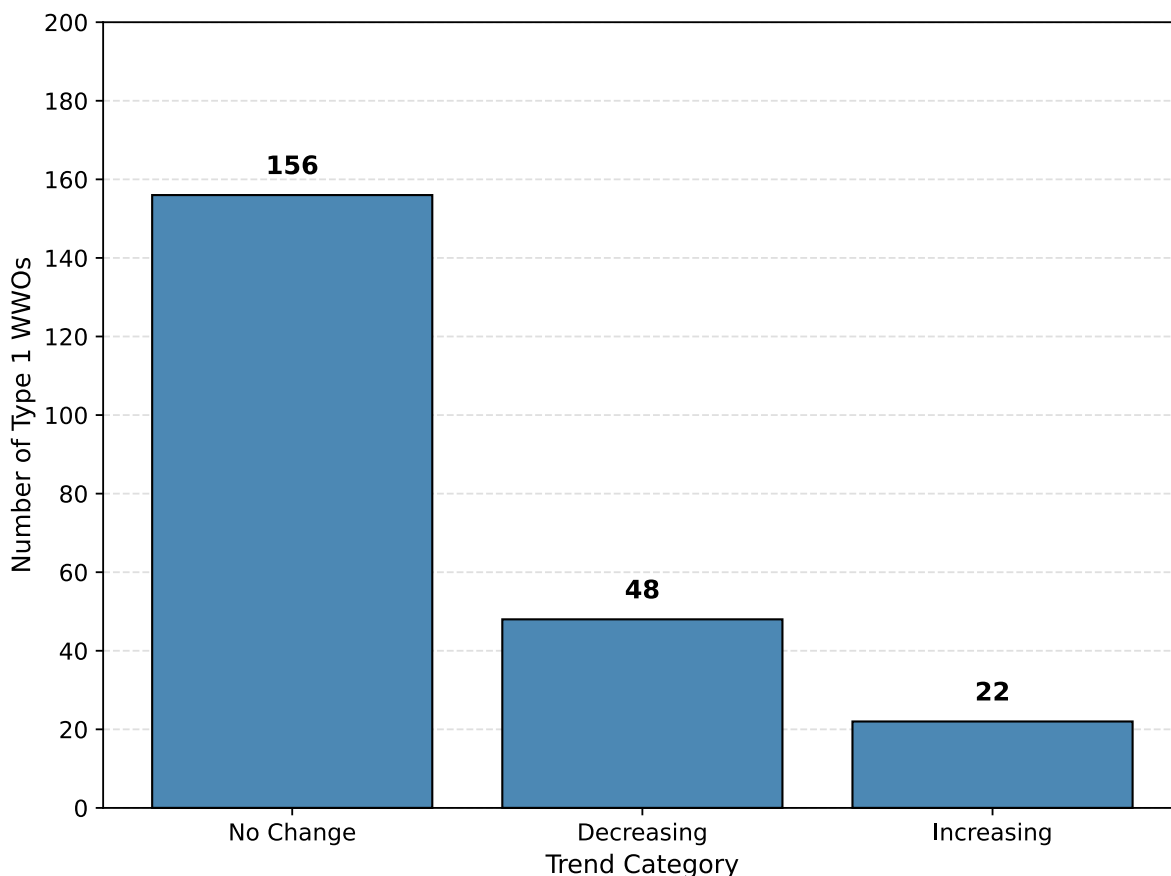


Figure 4-5 Bar graph showing the trend for the number of Type-1 EOPs with WWOs for the rolling five-year average totals

Annual portfolio performance

Figure 4-6 presents the annual Type 1 WWO totals for the network from 2017 to 2025, overlaid with a five-year rolling average to illustrate the underlying trend. The data reveals notable year-to-year variability in overflow events, with annual totals ranging from an exceptional peak of 777 WWOs in 2023 to a low of 94 WWOs in 2025.

The five-year rolling average, shown from 2021 onwards, provides a clearer picture of the long-term trend by smoothing out annual fluctuations. The rolling average increased from 230 in 2021 to a peak of 309 in 2024, before declining slightly to 290 in 2025. This upward trend in the rolling average, despite the sharp reduction in 2025, indicates that the network experienced elevated overflow activity in recent years compared to the 2017-2021 period.

The exceptional spike in 2023 (777 WWOs) represents a significant deviation from the historical pattern and is attributed to heavy rains during that period. This event has substantially influenced the rolling average for subsequent years. The marked decrease to 213 WWOs in 2024 and further reduction to 94 WWOs in 2025 demonstrates improved performance, though continued monitoring is essential to confirm whether this represents a sustained improvement or temporary variation.

Site-Specific Performance

Figure 4-7 identifies the top 10 Type 1 sites by total WWO count over the last five-years (2021-2025), with trend classification indicating the trajectory of performance at each location. These 10 sites collectively represent a significant proportion of the network's overflow activity and are therefore priority locations for operational focus and capital investment.

The analysis reveals a mixed performance picture across these critical sites:

- Decreasing trends (shown in green) are observed at five sites: Palmer WWPS (48 WWOs), Te Atatu North WWPS (44 WWOs), Cronin WWPS (44 WWOs), Western WWPS (35 WWOs), and Black Rock WWPS (35 WWOs). These sites demonstrate that targeted interventions and operational improvements can successfully reduce overflow frequency, even at historically problematic locations
- No change (shown in grey) is not evident at any of the top 10 sites, indicating that all high-frequency overflow locations are experiencing either improvement or deterioration in performance
- Increasing trends (shown in red) are classified at five sites: Lake Road (Northcote) WWPS (50 WWOs), Seabreeze WWPS (46 WWOs), Weiti WWPS (37 WWOs), Otara WWPS (34 WWOs), and Tamaki East WWPS (32 WWOs). However, it is important to note that while these sites show an overall increasing trend across the five-year period, they have demonstrated decreasing overflow activity in recent years, particularly since 2022-23. This suggests that earlier interventions or operational changes are beginning to take effect, and these sites may transition to decreasing trends in future reporting periods if current performance is sustained

Lake Road (Northcote) WWPS remains the highest-frequency overflow site with 50 events over the five-year period. While classified as increasing based on the five-year average, the recent downward trajectory at this and other "increasing trend" sites is an encouraging sign that recent investments and operational improvements are yielding positive results.

The even split between sites with established decreasing trends (five sites) and sites showing recent improvements despite historical increases (five sites) underscores both the effectiveness of targeted interventions and the need for continued site-specific management strategies. Priority should be given to maintaining and accelerating the recent positive momentum at Lake Road (Northcote), Seabreeze, Weiti, Otara, and Tamaki East WWPSs through sustained investment and operational vigilance, while ensuring that the established decreasing-trend sites continue their trajectory of improvement.

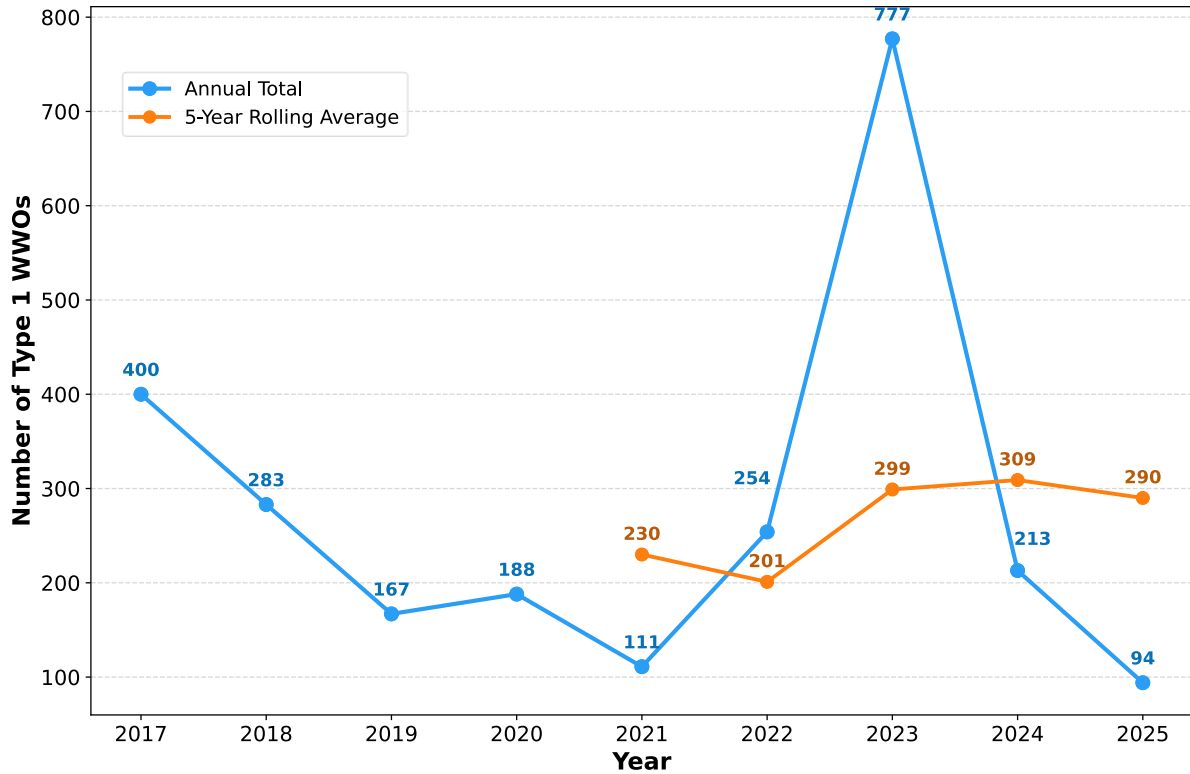


Figure 4-6 Type-1 WWOs annual totals since 2017 overlaid with the five-year rolling average

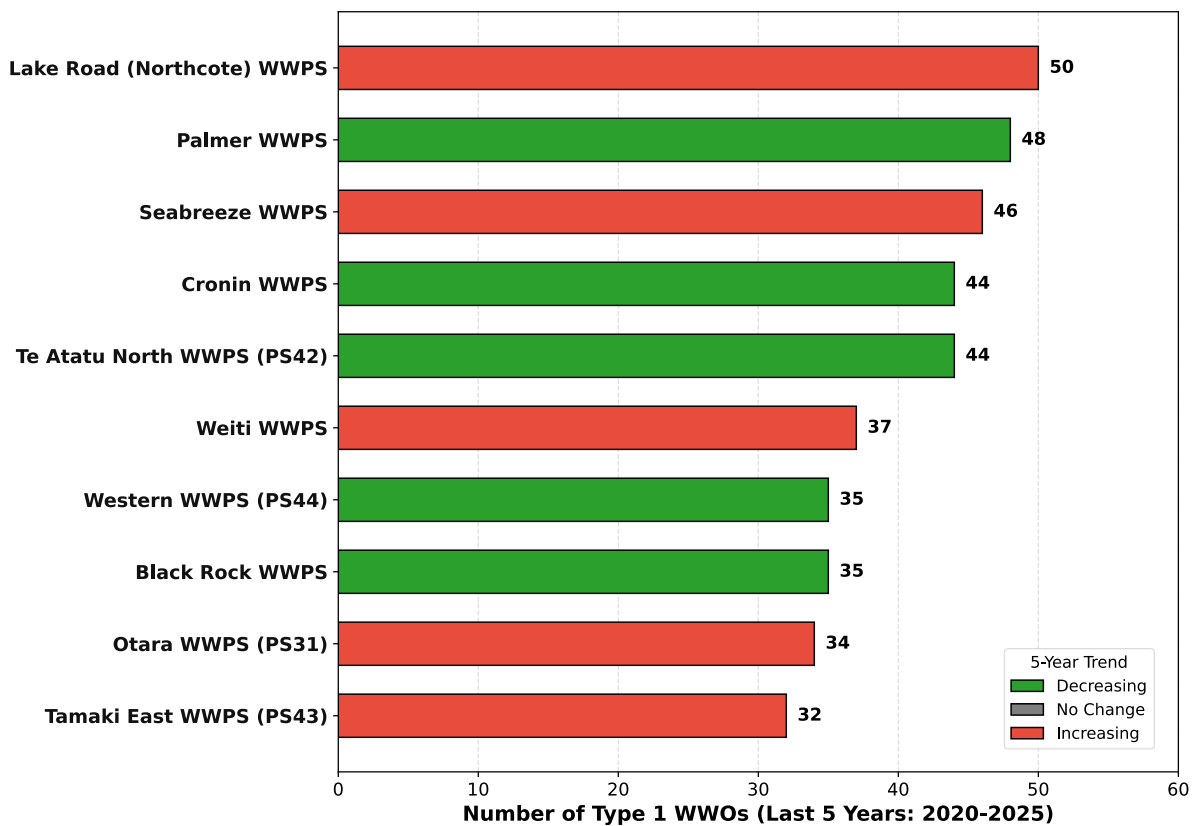


Figure 4-7 Top 10 sites with the total number of Type-1 WWOs in the last five-years, with a trend classification based on five-year (2021-2025) average

4.3.3 Type 2 trends

Type 2 WWOs are alarm-derived and not field-validated as is with all Type 2 alarms. As noted in Section 3.2.2, these data are used to guide risk-based prioritisation rather than to determine consent compliance. The 2024/25 totals indicate a network-level increase relative to 2023/24, with material variation by catchment and asset. Figure 4-8 to Figure 4-11 referenced below summarise concentration, dispersion, change, and geographic drivers to support targeted management actions.

- The distribution of alarmed events is not tightly concentrated (Figure 4-8). The Top-15 EOPs account for approximately 45% of the 2024/25 total, with a further aggregated cohort (EOPs ranked 16–38) required to reach approximately 80% of alarms, and the remainder spread across the “long tail”
- The cumulative contribution curve shows the rate at which alarms accumulate as additional EOPs are included (Figure 4-9). Milestones at Top-15, Top-25, and the “Top-N ~80%” point (Top-38 in 2024/25) demonstrate a diffuse profile compared with Type 2 DWOs. This provides an objective reference for resourcing plans: the number of EOPs that must be actively managed to capture a given share of alarms. However, this trend should be monitored over several years to capture a representative sample size and identify a sustained pattern
- Catchment totals for 2024/25 versus 2023/24 highlight where alarm activity is concentrated (Figure 4-10). Hobson Bay and Henderson Creek show notable increases; Western Isthmus exhibits a net decrease despite localised rises at individual EOPs. The companion table within Figure 4-10 lists the principal EOP contributors in the top catchments and their year-on-year changes, enabling targeted planning of work orders, inspections, and inflow management
- Year-on-year deltas separate rising alarm points (red) from improving assets (green) (Figure 4-11). Step-change increases at specific EOPs (e.g., Cox’s Bay 740; Henderson Creek 8; Western Isthmus 571) warrant rapid diagnostics to confirm root cause and prevent persistence. Substantial decreases at others (e.g., Central Auckland CBD 712; Western Isthmus 728 and 739; Lower Tamaki River 188) are to be verified for consistency with operational interventions and should be protected via light-touch monitoring

Management implications

- The combination of Figure 4-8 and Figure 4-9 indicates that achieving an ~80% reduction target will require coordinated action across roughly 30–40 EOPs, not solely the Top-10 or Top-15. This will be reflected in work planning and contractor allocation.
- Figure 4-10 supports catchment-level packages (e.g., Hobson Bay, Henderson Creek) combining condition assessments, targeted cleaning, defect repair, and inflow control at sub-catchment scale.
- EOPs with step-change increases in Figure 4-11 should receive expedited investigation (telemetry checks, blockage screening, local inflow assessments), with interim operational controls applied where feasible to prevent recurrence during wet-weather periods.
- Because Type 2 WWOs are alarm derived, repeated alarms at the same EOP should be selectively field verified to confirm root causes and to screen for telemetry bias or false positives before committing to capital solutions.
- Establish early warning KPIs - monthly alarm density by catchment and automated “step change” triggers at the EOP level to escalate response when thresholds are breached. Improving sites identified in Figure 4-11 should be placed on a watchlist to sustain gains.

These insights will inform FY25/26 prioritisation, balancing targeted asset interventions at high impact EOPs with catchment level programmes where alarm density is greatest.

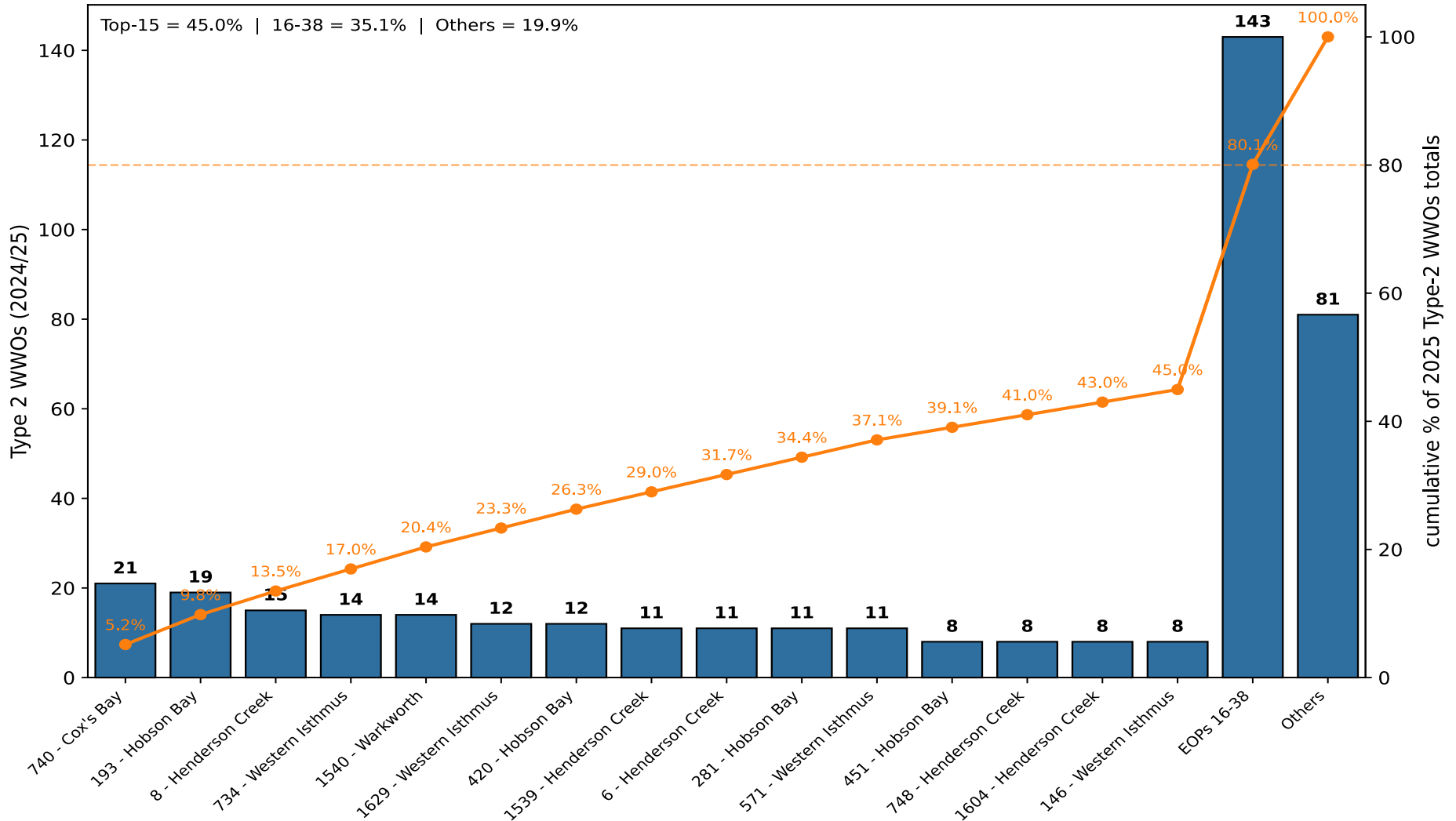


Figure 4-8 Top 15 Type-2 WWO EOPs account for ~45% of Type-2 WWOs, EOPs 16-38 have been aggregated and account ~35% of Type-2 WWOs, plus all "Others" showing diffuse contribution counting to ~20% of Type-2 WWOs

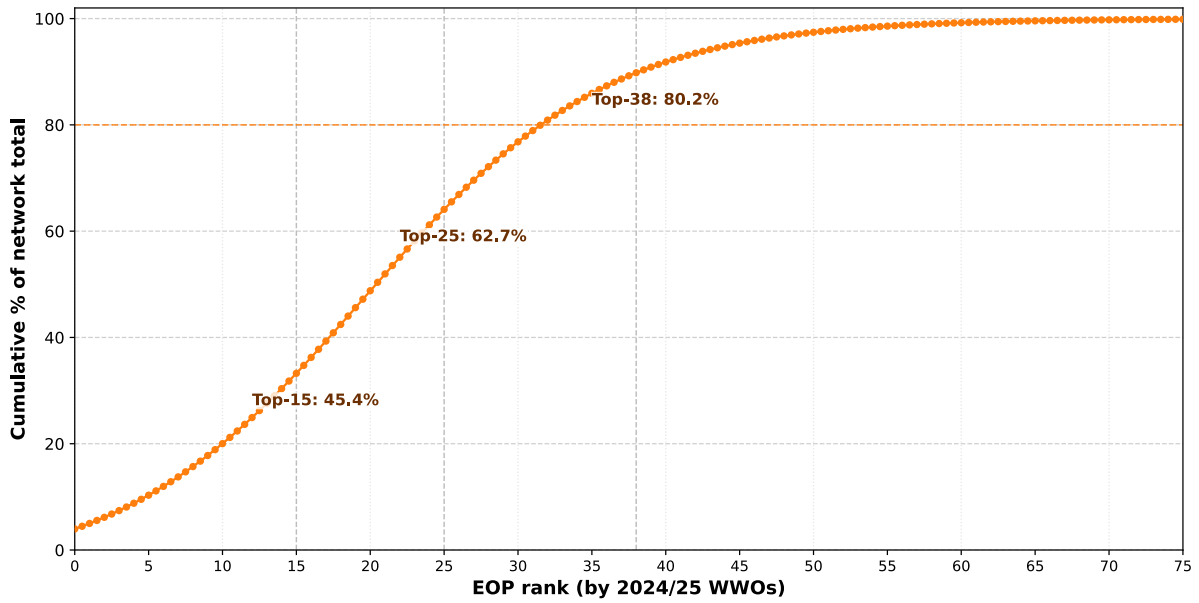
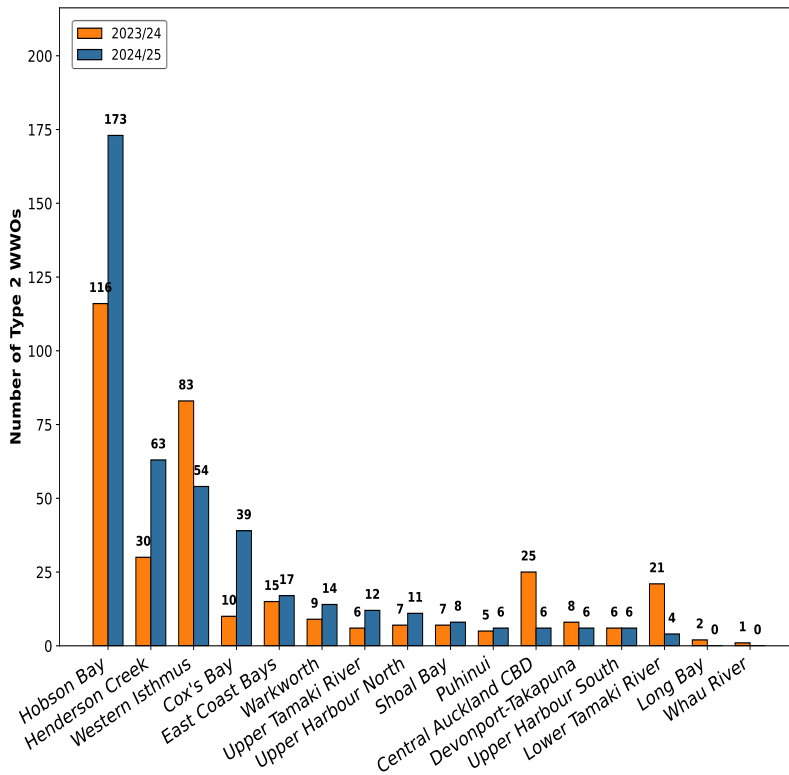


Figure 4-9 Cumulative WWOs vs EOP rank with Top-15, Top-25, and ~80% (Top-38) markers; quantifies dispersion



Top EOP contributors in Top 3 Catchments (by 2024/25)

Area	EOP	23/24	24/25	Δ
Hobson Bay	193	10	19	9
Hobson Bay	420	3	12	9
Hobson Bay	281	12	11	-1
Henderson Creek	8	0	18	18
Henderson Creek	1539	4	11	7
Henderson Creek	6	7	11	4
Western Isthmus	734	14	14	0
Western Isthmus	1629	7	12	5
Western Isthmus	571	0	11	11

Figure 4-10 WWOs by catchment (24/25 vs 23/24) with key EOP contributors and deltas

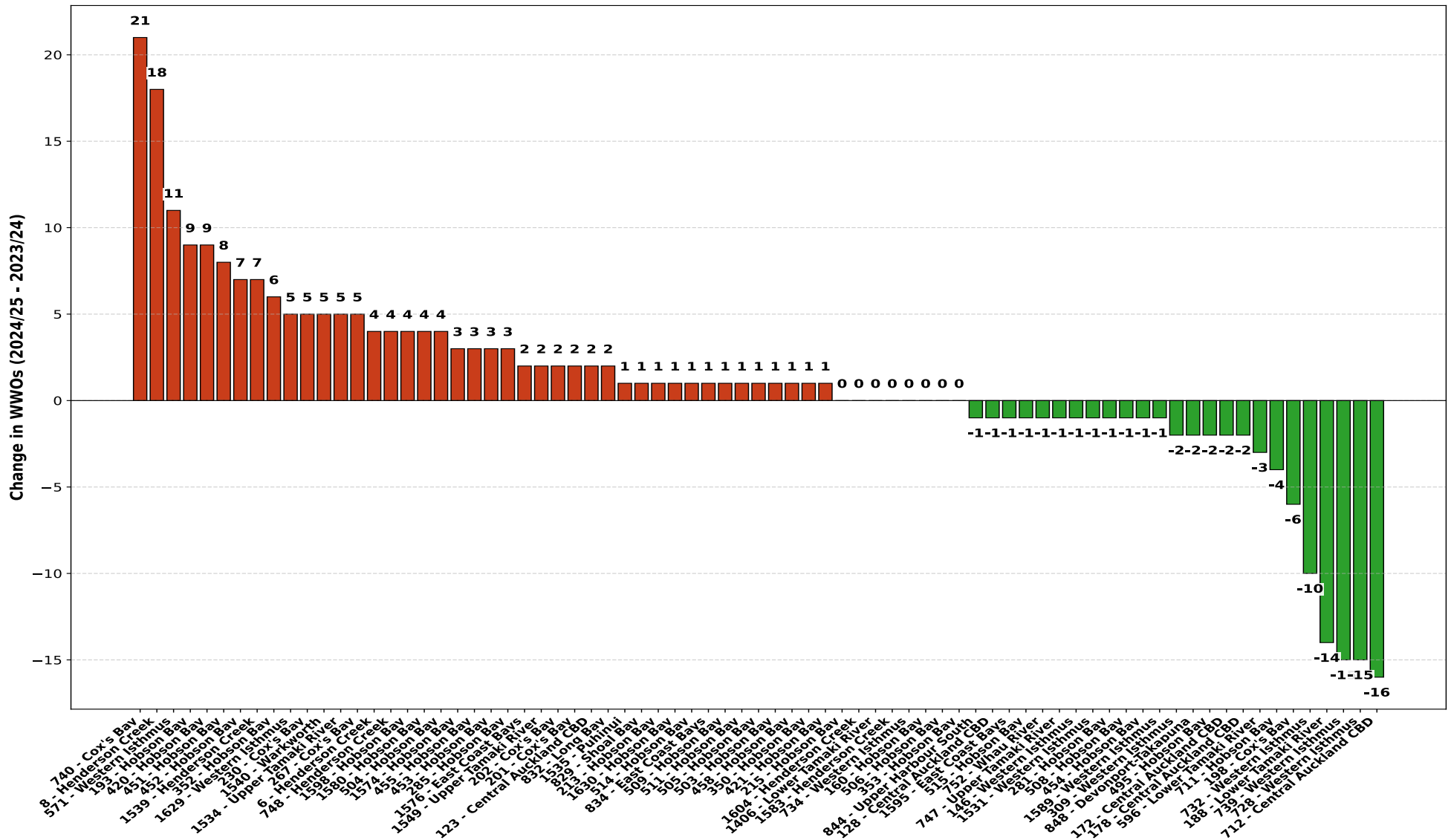


Figure 4-11 Change in Type-2 WWOs from 2023/24 to 2024/25 at each EOP (red↑, green↓), highlighting step-change risers and improving assets

4.3.4 Type-3 trends

Total frequencies of overflow cause across the Auckland region over the past five-years are presented in Figure 4-16. This section presents a comprehensive statistical analysis of Type 3 WWOs across the network for the five-year period from 2021 to 2025. Linear regression analysis was conducted on annual overflow counts by cause category to identify statistically significant trends, with significance assessed at $p < 0.05$ and emerging trends noted at $p < 0.10$.

Key findings

- Total of 5,439 Type-3 WWOs recorded over the five-year period (521, 801, 2326, 836 and 955 from 2021 to 2025 respectively)
- The 2023 extreme weather events resulted in a $\approx 290\%$ increase in WWOs compared to 2022, representing an anomalous spike in the dataset
- Post-2023 recovery shows WWOs returning to near-baseline levels, with 2024-2025 counts comparable to 2021-2022 and 2023-2024
- No causes reached statistical significance at $p < 0.05$ for increasing trends
- Two causes showed emerging trends at $p < 0.10$: Silts ($p = 0.066$, $\beta = 2.40$) and Power Failure ($p = 0.070$, $\beta = 2.90$)
- Surcharging remains the dominant cause (48.6% of all WWOs), though showing no statistically significant trend ($p = 0.923$)
- Unknown causes for WWOs represent 22.3% of total events, with an upward trajectory (368 in 2025 vs. 100 in 2021) requiring attention ($p = 0.150$)
- Infrastructure-related failures (broken pipes and power failures) show upward patterns despite not reaching statistical significance
- Traditional blockage causes (Fat, Rags, Roots) show no statistically significant trends ($p > 0.05$)

Methodology

Linear regression analysis was performed on annual WWO counts for each cause category across the five-year period. The analysis assessed whether overflow frequencies showed statistically significant increasing or decreasing trends over time.

Significance criteria:

- $p < 0.05$: Statistically significant trend
- $p < 0.10$: Emerging trend requiring monitoring
- $p \geq 0.10$: No significant trend detected
- β (Beta coefficient): Rate of change per year (positive = increasing, negative = decreasing)

The analysis was conducted in accordance with standard statistical practices for environmental compliance reporting and aligns with the methodology used in previous annual reports. The full summary output of the analysis can be found in Appendix E.

The 2023 extreme weather events (Auckland Anniversary Weekend flooding and Cyclone Gabrielle) created a significant outlier in the dataset. While this event is included in the statistical analysis, interpretation of trends must account for this anomalous year. The analysis examines both the overall five-year trend and the recovery pattern post-2023.

Overall network performance

The five-year dataset shows a total of 5,439 Type-3 WWOs, with annual counts of 521, 801, 2,326, 836, and 955 from 2021 to 2025 respectively. The 2023 spike represents a 190% increase from 2022, directly attributable to the Auckland Anniversary Weekend flooding and Cyclone Gabrielle extreme weather events.

Critically, the network has demonstrated resilience with post-2023 recovery. The 2024 count (836) represents a 64% reduction from the 2023 peak, returning to levels comparable with 2022. The 2025 count (955) shows a 14% increase from 2024, remaining well below the 2023 anomaly and suggesting relative stable network performance under normal weather conditions. However, there is an increasing trend in gradual steps without the 2023 event. See Figure 4-12 and Figure 4-13 for summary of Type-3 overflows for the last five-years and the year over year changes.

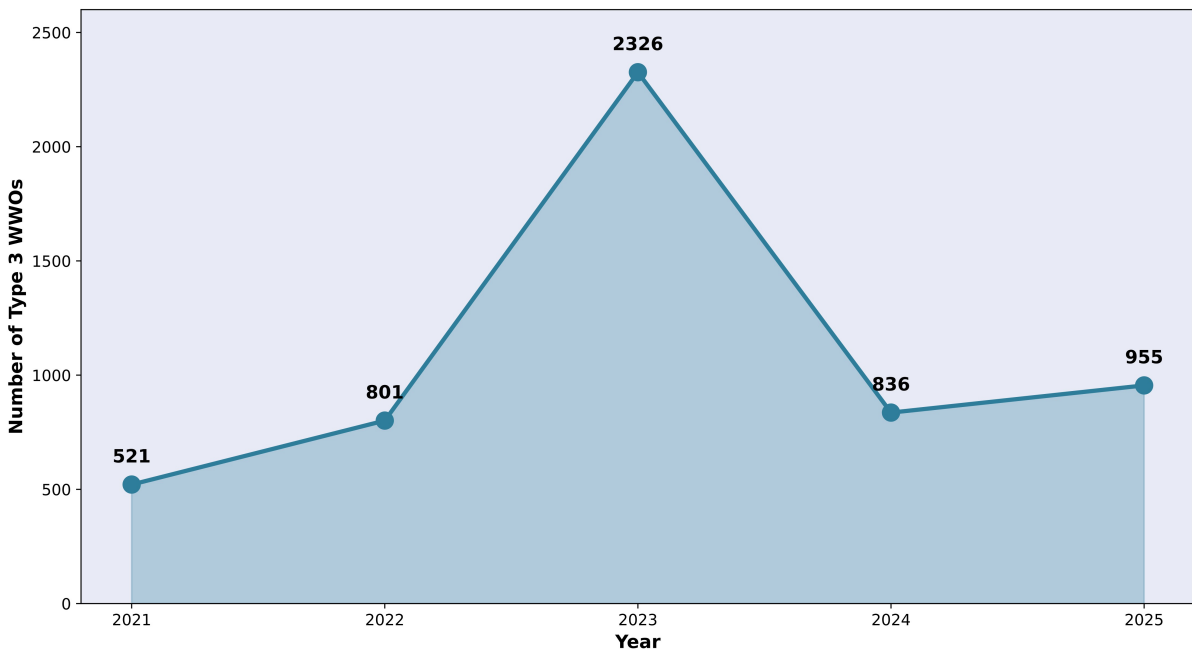


Figure 4-12 Total Type-3 WWOs from 2021 to 2025

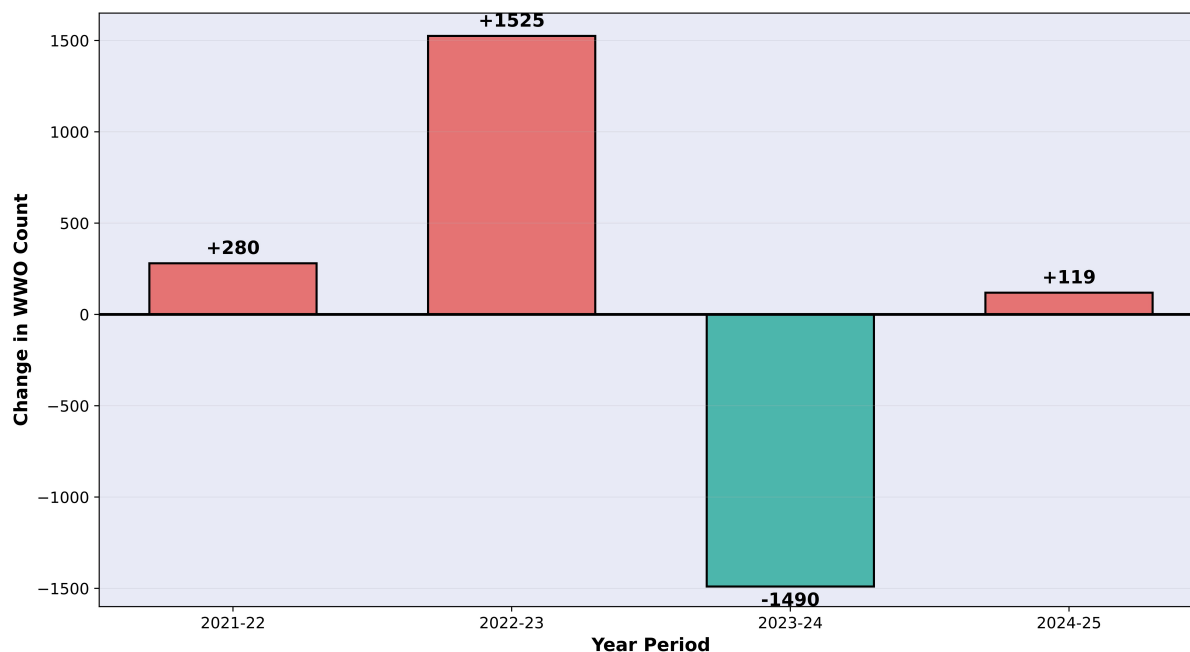


Figure 4-13 Year-over-Year change in total WWOs

Cause-specific analysis

The five most frequent causes of Type-3 WWOs (Figure 4-14) over the analysis period are:

- Surcharging: 2,644 events (48.6%) - Dominant cause, primarily driven by rainfall
- Unknown: 1,212 events (22.3%) - Significant proportion requiring improved investigation protocols
- Roots: 543 events (10.0%) - Persistent infrastructure challenge
- Fat: 505 events (9.3%) - Ongoing public education and trade waste compliance issue.
- Rags: 166 events (3.1%) - Reflects inappropriate disposal practices

These five causes account for 93.3% of all Type-3 WWOs, indicating that targeted interventions in these areas could yield substantial network performance improvements. Refer to Figure 4-16 for Type 3 WWO frequencies for the last five-years for different causes.

Emerging trend requiring monitoring

Linear regression analysis identified two cause categories with emerging trends (Figure 4-15) at the $p < 0.10$ significance level:

- **Silts ($p=0.066$, $\beta=2.40$):** Shows an emerging increasing trend with an average increase of 2.4 events per year. The 2021-2025 period shows growth from 6 to 13 events. While not yet statistically significant at $p < 0.05$, this trend warrants monitoring as it may indicate increasing sediment infiltration issues, potentially related to aging infrastructure or changes in catchment characteristics
- **Power Failure ($p=0.070$, $\beta=2.90$):** Demonstrates an emerging increasing trend with an average increase of 2.9 events per year, growing from 0 events in 2021 to 13 in 2025. This trend may suggest potential issues with pump station resilience, backup power systems, or increased frequency of power supply disruptions. The sharp increase in 2025 (from 3 to 13 events) requires immediate investigation. Summary output of the linear model is provided in Appendix E

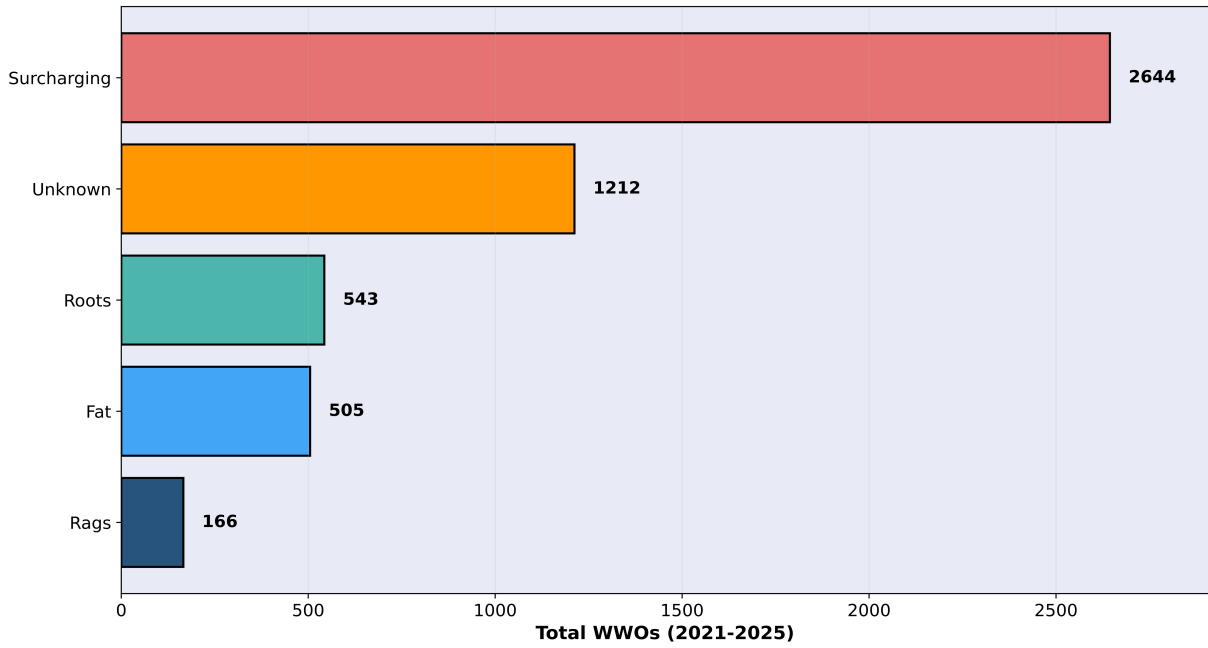


Figure 4-14 Top-5 causes of Type- 3 WWOs (2021-2025)

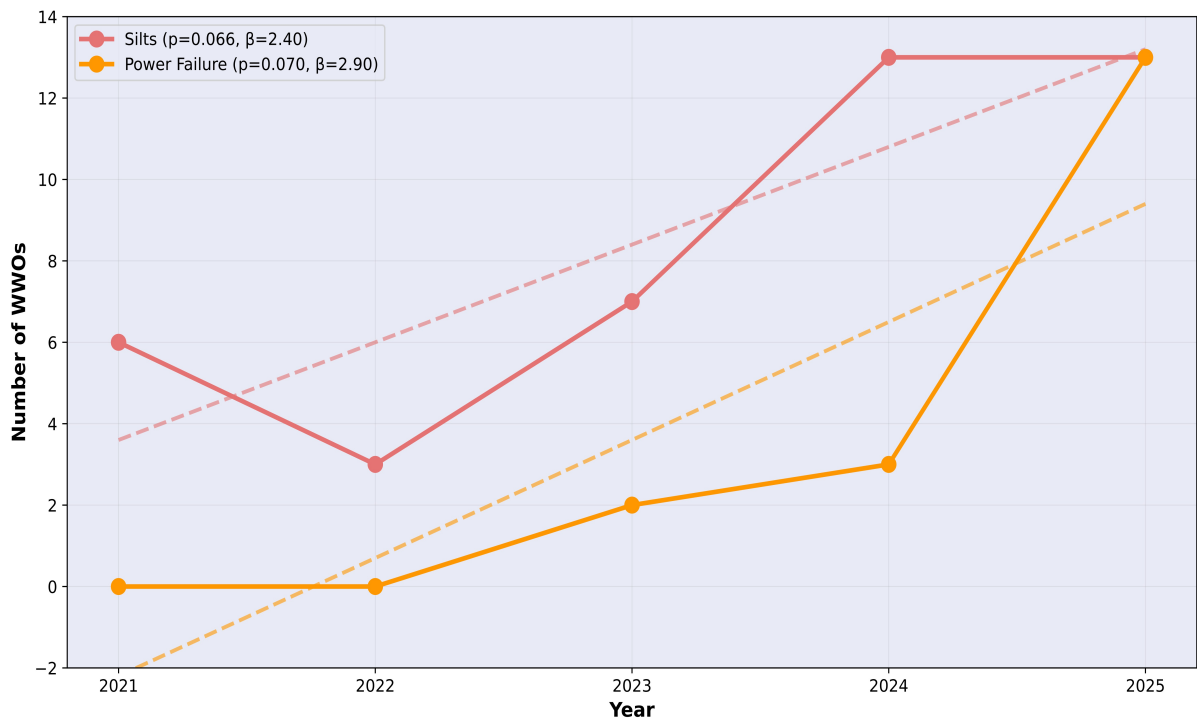


Figure 4-15 Causes with emerging trends (p<0.10)

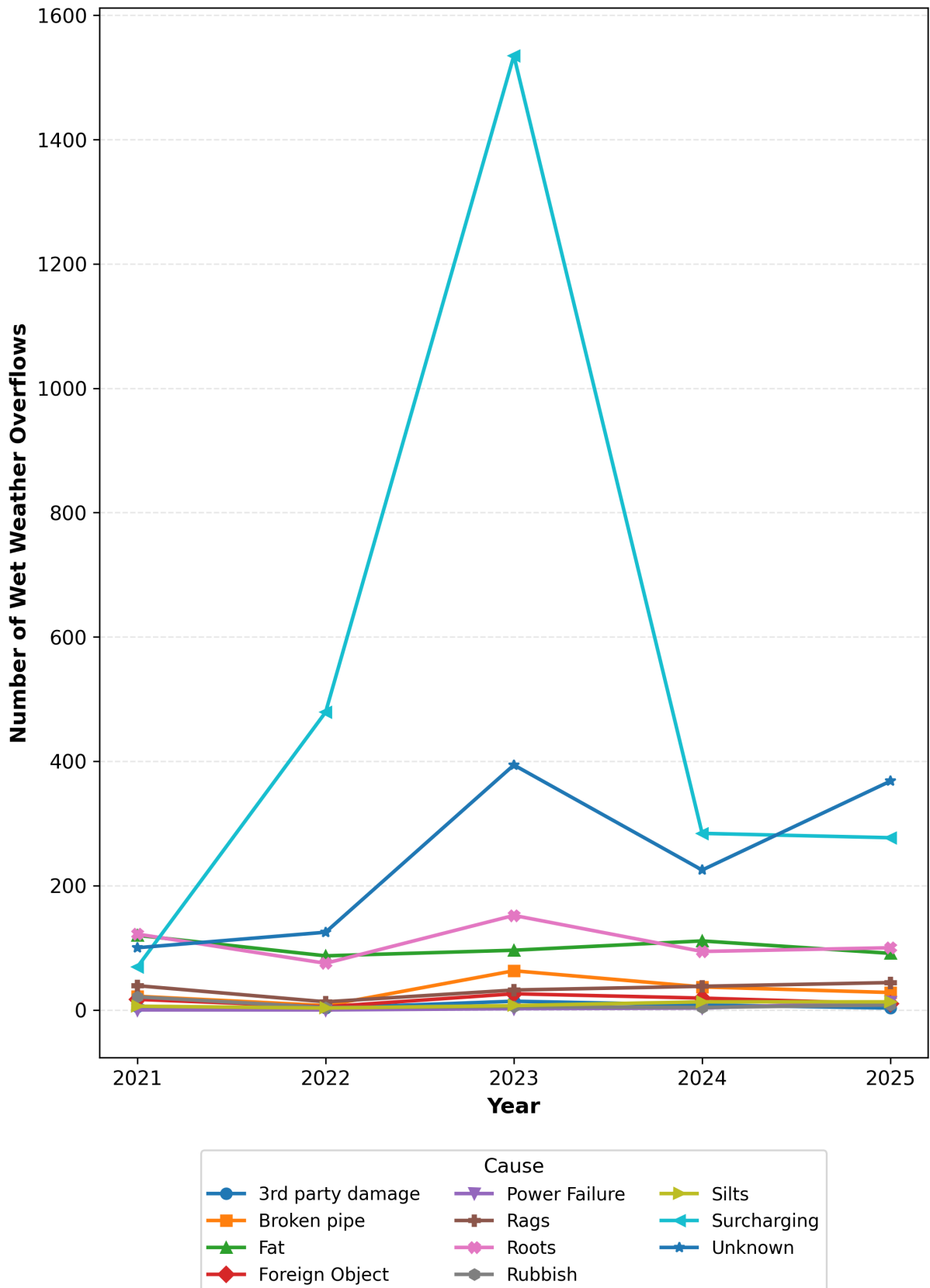


Figure 4-16 Line graph showing the number of Type-3 WWOs per year for the period 2021-2025 for different causes

Statistically non-significant trends

Surcharging events represent the single largest cause of Type 3 WWOs, accounting for 2,644 events (48.6% of total). Statistical analysis shows no significant trend ($p=0.923$, $\beta=-22.10$), indicating stable performance when accounting for weather variability. Refer Figure 4-17 for year over year trends of surcharge counts.

Blockage related causes: Three primary blockage causes—Fat, Rags, and Roots—collectively account for 1,214 WWOs (22.3% of total). Statistical analysis shows high year-to-year variability for **fat-related** blockages (505 events) but no statistically significant trend ($p=0.823$). The 2023 spike (96 events) and subsequent 2024-2025 levels (111 and 91 events) suggest ongoing challenges with trade waste compliance and public behavior, despite education campaigns. **Rags-related** blockages (166 events) remain relatively stable with no significant trend ($p=0.897$). The 2025 increase to 44 events (from 38 in 2024) warrants monitoring, particularly regarding inappropriate disposal of wet wipes and sanitary products. **Root intrusion** (543 events) shows no significant trend ($p=0.635$) despite being the third-highest cause. The 2023 spike (152 events) and subsequent reduction suggest that extreme weather may have exacerbated existing root intrusion vulnerabilities. Ongoing pipe renewal and root management programs appear to be maintaining stable performance. See Figure 4-18 for blockage related cause trends. Full summary output of the statistical analysis for each of the blockage related causes can be found in Appendix E.

Infrastructure Failure Analysis: Infrastructure failures comprising broken pipes, represent a critical concern despite relatively low absolute numbers (191 events total, 3.5% of all WWOs). **Broken pipe** events (157 total) show an upward trajectory ($\beta=+3.70$) but have not reached statistical significance ($p=0.449$). The 2023 spike (63 events) followed by elevated 2024-2025 levels (37 and 28 events) compared to 2021-2022 (22 and 7 events) suggests potential aging infrastructure concerns requiring continued asset management focus.

Unknown causes ($p=0.150$; $\beta=+63.6$): While not statistically significant, the elevated "Unknown" cause events in 2025 (268% above 2021 baseline) and also accounting for 1,212 events over five-years (22.3% of total) - the second-highest cause category warrant attention. The 2025 count of 368 events represents a 64% increase from 2024 (225) and is approaching the 2023 (394) extreme weather year levels, despite 2025 being a relatively normal weather year. See Figure 4-20 for trends. This suggests potential issues with:

- Gaps in overflow investigation procedures
- Resource constraints limiting thorough root cause analysis
- Field staff training and diagnostic capabilities
- CCTV and inspection equipment deployment
- Data recording and classification systems
- Post-event investigation resourcing

Management implications

Watercare operations will look into these potential issues in future including Implementing enhanced overflow investigation protocols and consider additional training for field staff in root cause assessments.

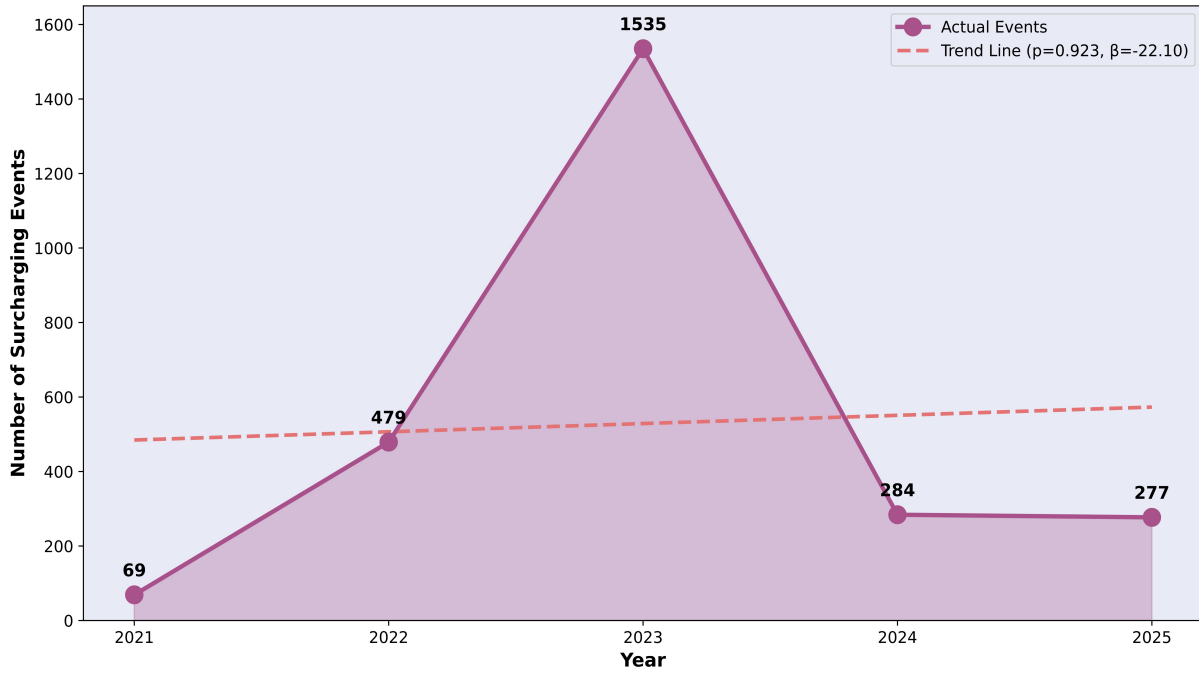


Figure 4-17 Surcharging events as root cause for Type-3 WWOs trend analysis (2021-2025)

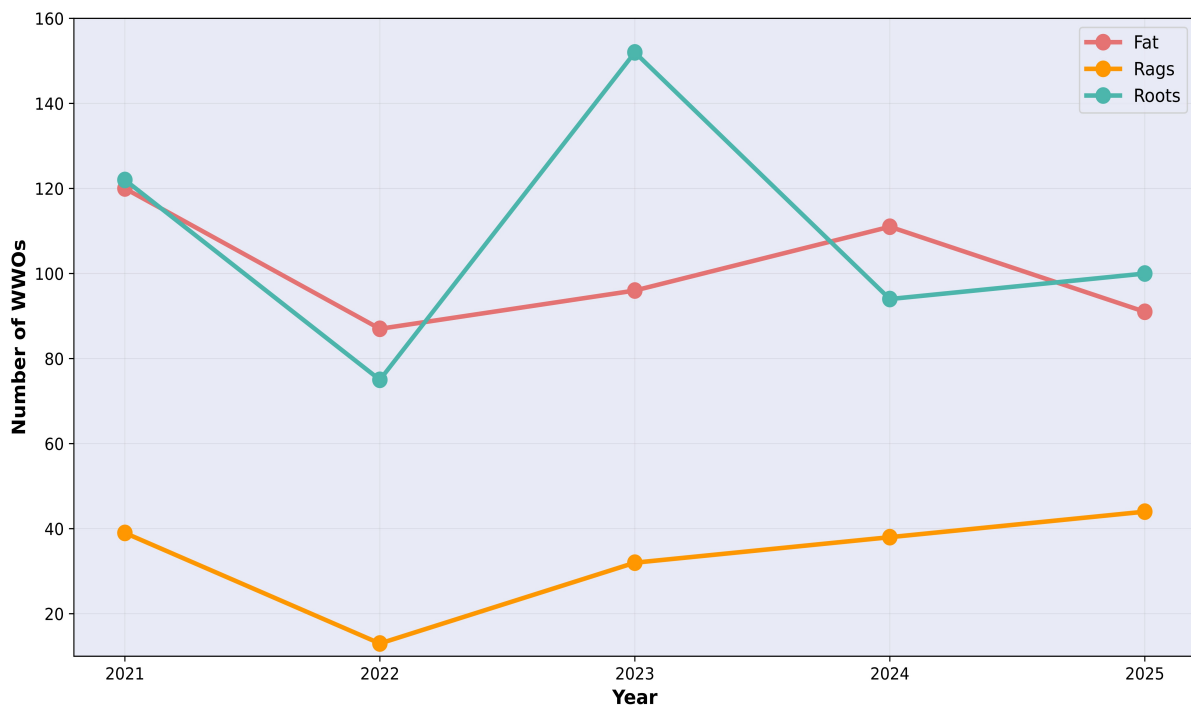


Figure 4-18 Blockage related Type-3 WWOs (2021-2025)

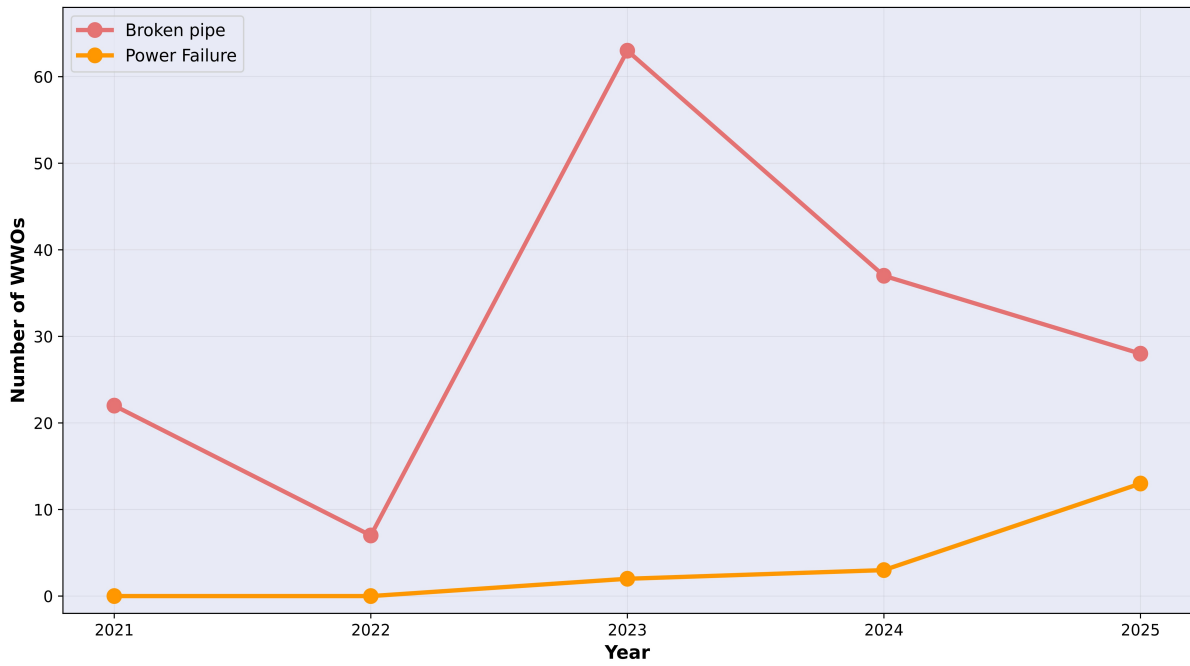


Figure 4-19 Infrastructure failure related Type-3 WWOs (2021-2025)

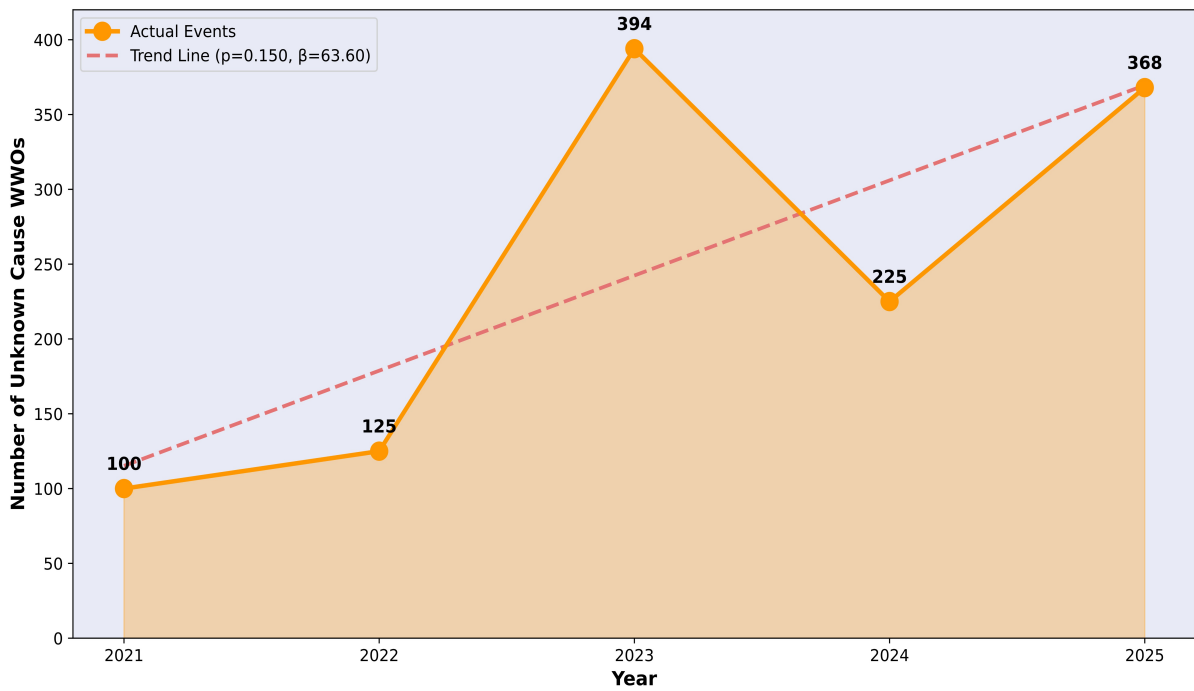


Figure 4-20 Unknown cause Type-3 WWO Trend (2021-2025)

Cause distribution analysis

The 2023 extreme weather events (Auckland Anniversary Weekend flooding and Cyclone Gabrielle) resulted in 2,326 Type 3 WWOs—a 290% increase from 2022. Analysis of the cause distribution during this extreme year provides insights into network vulnerabilities under severe weather conditions.

2023 Cause distribution

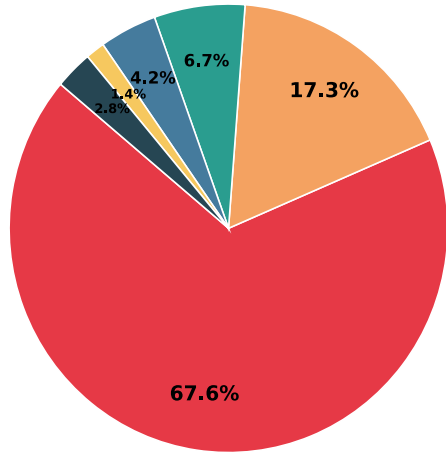
- Surcharging: 1,535 events (66.0%) - Overwhelmingly dominant during extreme rainfall
- Unknown: 394 events (16.9%) - Investigation challenges during emergency response
- Roots: 152 events (6.5%) - Exacerbated by saturated ground conditions
- Fat: 96 events (4.1%) - Continued despite extreme weather focus
- Broken pipe: 63 events (2.7%) - Increased structural failures under stress
- Rags: 32 events (1.4%) - Relatively lower proportion during high-flow conditions

The 2023 distribution shows that surcharging increased from 48.6% of WWOs (five-year average) to 66.0% during extreme weather, confirming that hydraulic capacity exceedance is the primary vulnerability during severe rainfall events (Figure 4-21).

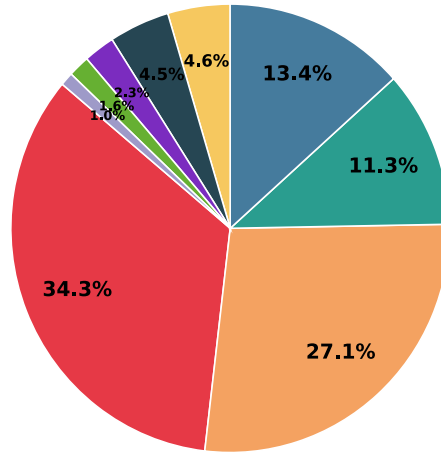
The **2024 cause distribution** (836 total WWOs) demonstrates network recovery post-extreme weather, with cause proportions returning closer to historical norms. This year represents the first full year of post-event recovery and provides a baseline for assessing ongoing network performance.

The **2025 cause distribution** (955 total WWOs) shows continued stable performance with cause proportions consistent with pre-2023 patterns. The modest 14% increase from 2024 is within normal year-to-year variability and does not indicate systemic deterioration.

**2023 Type 3 WWO Causes
(Extreme Weather Year)**



2024 Type 3 WWO Causes



2025 Type 3 WWO Causes

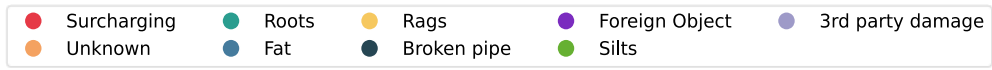
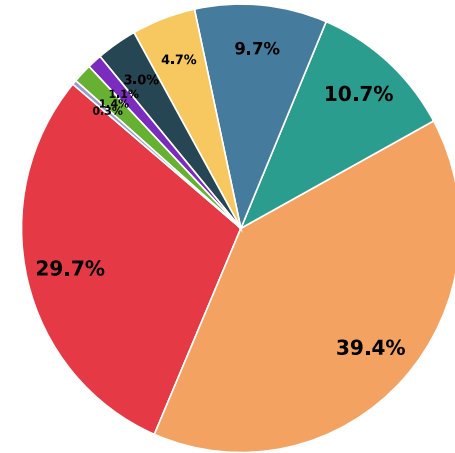


Figure 4-21 Type-3 WWOs causes distribution in 2023, 2024 and 2025

Catchment-specific analysis

Five catchments account for ≈50% of all Type-3 WWOs (2,710 of 5,439 events) (Figure 4-22): These catchments represent priority areas for targeted interventions, capital investment, and enhanced monitoring. Table 4-7 shows the top 10 catchments' year on year Type-3 WWOs counts. Figure 4-23 shows top 3 catchment trends for causes over the last five-years. Catchment-specific regression analysis identified three catchments with statistically significant increasing trends in blockage/breakage-related WWOs, requiring focused attention. Table 4-8 provides a statistical summary of significant and emerging trends.

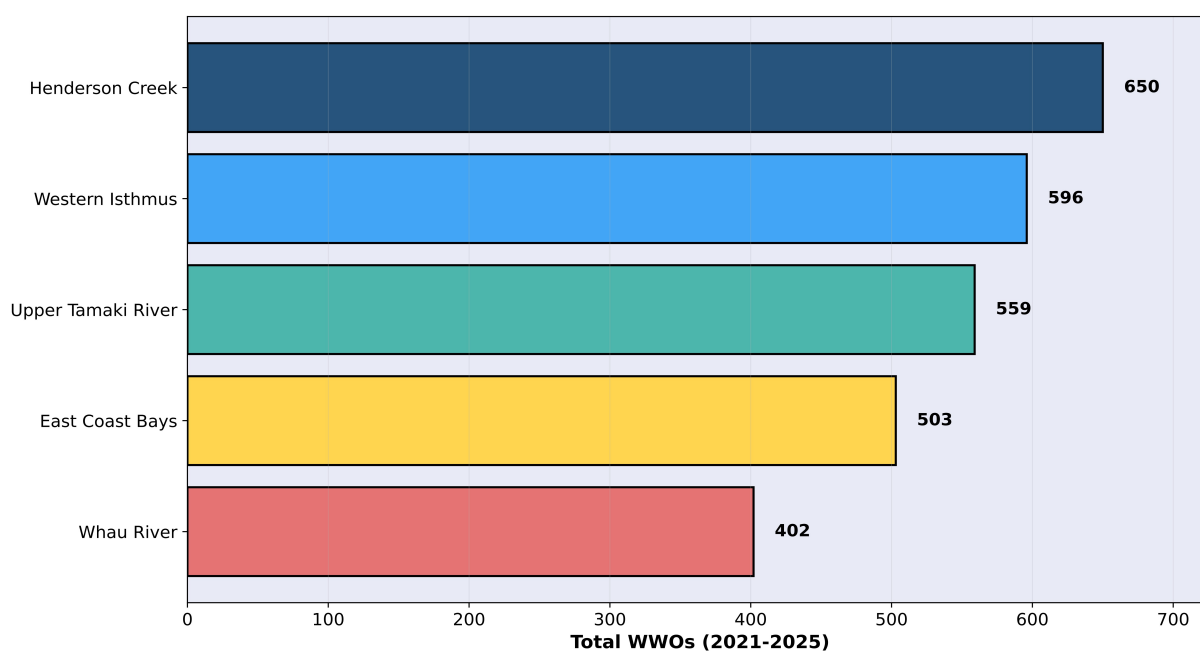


Figure 4-22 Top 5 Catchments by total Type-3 WWOs (2021-2025)

Table 4-7 Top 10 catchments with highest total Type-3 WWOs from 2021 to 2025

Catchment	2021	2022	2023	2024	2025	Total
Henderson Creek	65	82	303	103	97	650
Western Isthmus	64	119	249	64	100	596
Upper Tamaki River	42	86	216	114	101	559
East Coast Bays	36	73	195	98	101	503
Whau River	47	37	213	48	57	402
Hobson Bay	48	65	139	69	63	384
Lower Tamaki River	24	37	87	48	48	244
Shoal Bay	26	39	85	37	41	228
Onehunga	23	24	116	31	28	222
Upper Harbour South	16	26	97	24	42	205

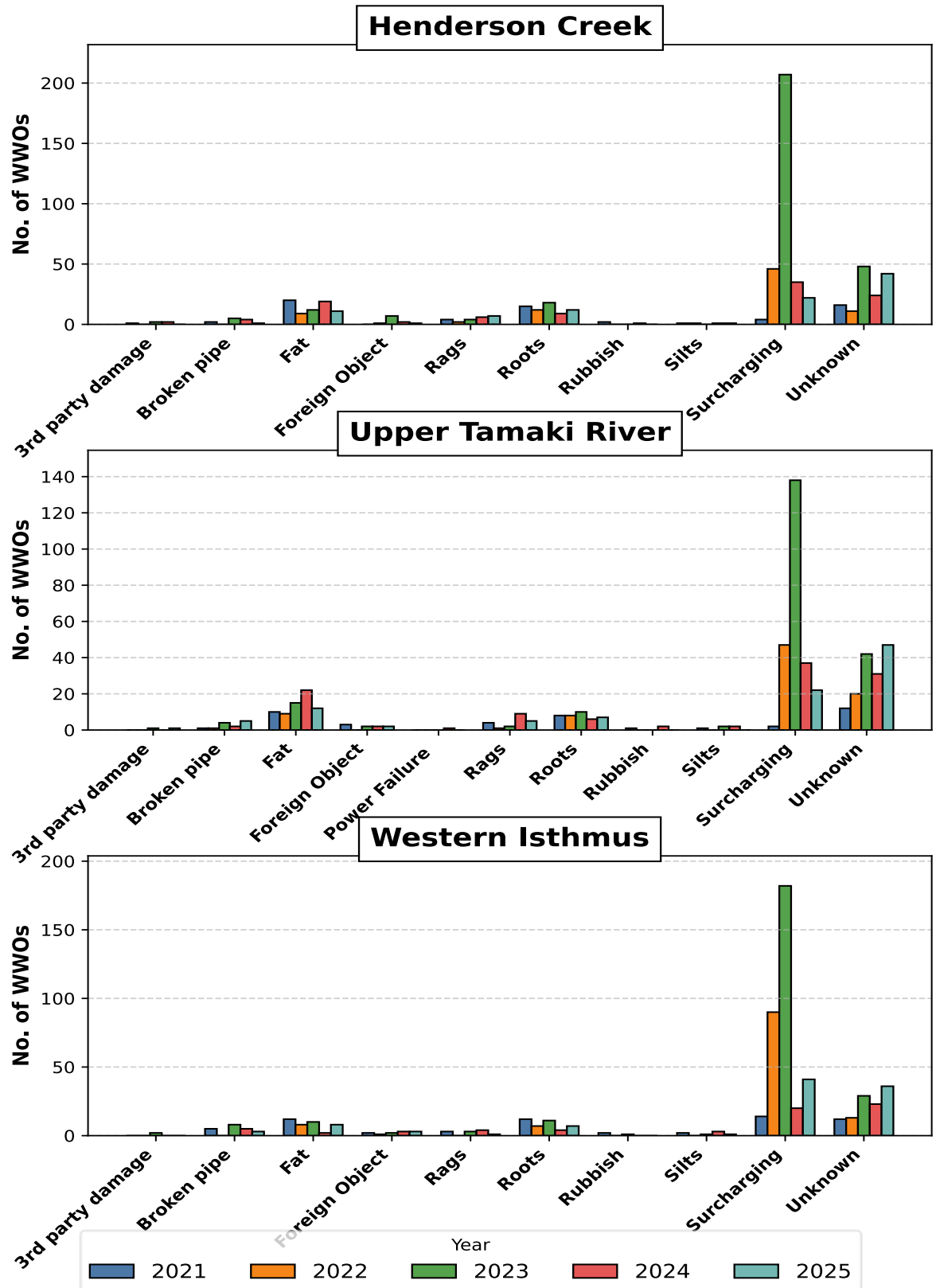


Figure 4-23 WWO frequencies for specific causes for Henderson Creek, Upper Tamaki River and Western Isthmus catchments for the period 2021- 2025

Table 4-8 Significant and emerging trends summary of catchments for various causes

Catchment	Cause	Slope_per_year	P_value	R ²
East Coast Bays	Foreign Object	-1	0	1
Upper Harbour North	Unknown	2	0.0345	0.82
Onehunga	Fat	-1.3	0.0414	0.797
Western Isthmus	Unknown	5.8	0.0434	0.791
Hobson Bay	Broken pipe	0.5	0.0465	0.909
Whau River	Fat	-2.2	0.0503	0.771
Upper Tamaki River	Unknown	8.1	0.0521	0.765
East Coast Bays	Unknown	10	0.0667	0.726
Upper Harbour North	Roots	0.9	0.0679	0.723
Henderson Creek	Rags	1	0.0957	0.658
Shoal Bay	Rags	0.7	0.0963	0.817

Summary Type-3 WWOs trends

The five-year statistical analysis of Type-3 WWOs (2021-2025) demonstrates overall no statistically significant increasing trends at the $p < 0.05$ threshold. The network has shown some resilience in recovering from the 2023 extreme weather events, with 2023-24 and 2024-25 performances returning to pre-event baseline levels.

Two emerging trends at $p < 0.10$ (Silts and Power Failure) require proactive management to prevent progression to statistical significance. The high proportion of Unknown cause WWOs (22.3%) represents an opportunity for improved network understanding through enhanced investigation protocols.

The dominant role of surcharging (48.6% of WWOs) confirms that hydraulic capacity management remains the primary focus for network performance improvement, particularly in the context of climate change and increasing rainfall intensity.

Overall, the statistical analysis supports the conclusion of normal to medium network performance with targeted areas for improvement, consistent with an aging wastewater network under normal operating conditions.

4.3.5 Capacity improvement projects

A coordinated portfolio of major infrastructure programmes is now being delivered across Auckland to address the region's highest-overflow catchments and materially reduce Type-3 WWOs. The main improvement projects related to WWO mitigation are briefly discussed below but are detailed in Section 6.

Within the Western Isthmus, the Central Interceptor which is scheduled for completion in 2026 along with multiple initiatives under the Western and Eastern Isthmus Water Quality Improvement Programme (WIWQIP), with expected completion dates ranging from 2026 to 2033, are anticipated to significantly improve network performance and reduce uncontrolled overflows over the coming years.

In the Henderson Creek catchment, substantial benefits are expected from the Northern Interceptor project, with Stage 1 targeted for completion by the end of 2026. Further wastewater upgrades

within the catchment, including works in Te Atatū North, are also expected to enhance system performance. However, it should be noted that some projects will not be completed until 2030 and beyond, and therefore the full benefits will take time to be realised.

The Takapu Street wastewater upgrade was completed in June 2025, and improved performance with respect to uncontrolled overflows in Henderson Creek catchment is expected going forward.

Within the East Coast Bays catchment, several projects are planned to relieve pressure on the network and reduce uncontrolled overflows. Many of these are scheduled for completion in 2026, including the Rerouting of the Transmission (Trunk) Main associated with the Alma Pump Station, Jonathan Place Pipe Upgrades, the Mairangi Bay Gravity Wastewater Sewer Upgrade, and the WWT TARP Wairau Valley Branch TS project.

The East Coast Bays Link Sewer upgrade, completed in June 2025, together with the Mairangi Bay WWPS upgrade, is also expected to increase network capacity and reduce overflow occurrences.

Similarly, the Ōtara and Howick Wastewater Capacity Upgrades in the Upper Tāmaki River catchment are currently underway and scheduled for completion in 2028 and 2031 respectively. It will provide enhanced capacity and are expected to result in improved wet-weather overflow performance.

While these projects provide a credible pathway to materially improve wet-weather performance and environmental outcomes, the full system benefits will accrue progressively as staged works are completed; several schemes will not deliver their full impact until the late 2020s and early 2030s. Consequently, expected reductions in WWOs should be viewed as phased and catchment-specific rather than immediate and network-wide.

5 INFLOW AND INFILTRATION

5.1 Introduction

This chapter describes the I&I reduction programme for the 2024-2025 reporting period. The focus of the I&I programme is to work closely and collaboratively with the Auckland Council HW Safe Networks and Watercare Network Service Delivery teams to identify sources of rainfall derived inflow and infiltration (RDII) and groundwater infiltration (GWI) to the wastewater network that lead to wastewater overflows and discharges to the environment. The emphasis continues to be on the more frequent overflow sites, and those with larger volume discharges, with added emphasis on wastewater overflows to private property and sensitive receiving environments.

5.1.1 Programme summary

The Inflow and Infiltration Programme comprises four separate bodies of work:

- Watercare's I&I investigations
- Joint Watercare and Auckland Council's Healthy Waters Safe Networks investigations
- Joint Watercare and Healthy Waters Western Isthmus Water Quality Improvement Programme (WIWQIP)
- Joint Watercare and Healthy Waters Eastern Isthmus Water Quality Improvement Programme (EIWQIP)

5.1.2 Watercare's I&I investigations

Investigations are aimed at identifying and removing sources of inflow and infiltration in separated wastewater networks experiencing frequent overflows. Prioritisation of investigation areas is given to overflows impacting private properties, waterways, beaches and other coastal areas and where detailed models have predicted high levels of inflow and infiltration.

Investigations generally begin with a comprehensive investigation of all private drainage within the catchment to identify and remove sources of inflow and infiltration. The next phase, where required, includes targeted investigations of public drainage within the catchment. The scope and extent of public investigations will vary depending on the specific catchment characteristics. Some examples of targeted public investigations are inspections of public manholes, CCTV inspections and investigations to determine if stormwater backflow is occurring via unprotected EOPs.

5.1.3 Enhanced network monitoring

The I&I Programme will soon be benefiting from Watercare's Smart Network Programme which is currently being rolled out.

The Smart Network Programme includes the installation of 5000 wastewater level sensors in public manholes across the Auckland region and will utilize AI for analysis of the data. The data from the sensors will improve prioritisation and enable more targeted investigations.

5.1.4 Optimising wastewater pump station controls in response to I&I

Where available, monitored points within the wastewater network are assessed to determine if modifications to pump station controls could improve overall network performance. Analysis of several of our network wastewater pump stations showed that there was the potential to convey excessive amounts of wastewater downstream early into a wet weather event when the upstream network was still coping well. Assessments are undertaken to determine if utilising available storage (where available) could improve overall network performance.

5.1.5 Investigating large building complexes

Large building complexes such as schools and colleges are usually quite old and have developed in somewhat haphazard ways over the years, with temporary classrooms added in the middle of playgrounds or other areas within the property boundary where at times stormwater and wastewater networks are difficult to connect to. When investigating smaller catchments with frequent manhole 'poppers' (Type 3 overflows) it is not uncommon to find a school or similar institution upstream raising a 'red flag'. Due to sheer scale, removal of inflow from these larger complexes in some instances has been shown to improve surcharging in the wastewater network downstream.

5.1.6 Safe Networks investigations

Where water quality issues consistently pose a risk to public health in watercourses and at beaches, as indicated by Auckland Council's Safeswim programme, or from other prioritised sites, the Healthy Waters Safe Networks team monitors and investigates to identify and track contaminants to their source.

When contaminant sources are confirmed to be derived from human waste, Watercare and Auckland Council's Healthy Waters Safe Networks and Compliance teams collaborate and inspect private and public drainage networks to diagnose, fix or advise on appropriate target interventions to improve the health of our local waterways and beaches. Investigations are also classified as either reactive and planned, depending on the urgency and complexity of the need being addressed and scoped.

In FY24-25 we visited over 2,500 properties across Auckland to inspect private drainage connections as part of our targeted investigations into the causes of poor water quality. Many of the private drainage issues discovered have been fixed and we are working to resolve the rest. Our post-resolutions sampling is important to ensure remediation is effective, monitor for other issues, and to provide updates to other water quality programmes/tools/projects.

5.1.7 WIWQIP and EIWQIP separation investigations

For combined sewer networks (i.e. removal of stormwater runoff and 'legal' stormwater connections), Watercare is building upon their foundation Asset Management Programs of work including the Central Interceptor to improve wastewater transmission capacity and alleviate the high frequency Combined Sewer Overflow discharges. This is now complemented with the Western and Eastern Isthmus Water Quality Improvement Programs (WIWQIP and EIWQIP).

The WIWQIP and EIWQIP separation investigations and delivery programme is funded under the Auckland Council Water Quality targeted rate. Watercare and Auckland Council's Healthy Waters are currently investigating and developing WIWQIP and EIWQIP catchment-specific programmes of

improvement work, which will include new public stormwater networks to enable separation and wastewater network enhancements in local catchments to improve wastewater system performance.

Such interventions will reduce uncontrolled local catchment discharges and optimise the benefits of the wastewater transmission solutions to meet growth needs and achieve discharge consent targets in those parts of Auckland. As part of the WIWQP and EIWQIP programme of works, field separation investigations are conducted to map existing private drainage and develop stormwater separation solutions. In addition, illegal private drainage connections and other network issues are identified and remedied.

Some recent Wins are listed below:

- Auckland Council Healthy Waters and Watercare are to fund the 1.6 km extension of the Central interceptor to Point Erin Park, the Herne Bay wastewater collector and a gravity connection from the St Mary's Bay Pump station to the new central interceptor shaft in Point Erin Park. The design and consenting of these works are ongoing
- A new public stormwater network has been constructed in Point Chevalier Road and was delivered collaboratively with Auckland Transport, during the Point Chevalier Road upgrade. This project diverted the Point Chevalier Road surface runoff from the combined network to a new stormwater network. This will result in reduced combined sewer overflow spills to Meola Creek
- Construction of Waterview stormwater separation package 1 was recently completed. This work involved building new public stormwater networks and some private property drainage separations in the northern part of Waterview. The works will help to reduce combined sewer overflow spills to Oakley Creek in this area. Further separation design work is nearing completion in the Stage 2 area of Waterview in conjunction with the wastewater network enhancements planned by Watercare

5.1.8 Remediation

All urgent identified public network faults affecting service are passed on to Watercare's Service Delivery teams to be promptly fixed. Other public faults are included in Watercare's renewals programme for prioritisation and repair.

Auckland Council's Compliance team (on behalf of Watercare) issues 'Compliance Letters' and 'Notices to Fix' defective private drainage as identified through the programmes and follows-up with property owners. Generally, property owners fix their issues in the permitted time. Depending on the severity of the issue and impact, Auckland Council can issue fines for significant delayed repairs.

In some cases, defective private drainage that property owners do not address go on the property's Land Information Memorandum (LIM). Consequently, owners often address these drainage issues when intending to sell their house. Recent auditing on reportedly 'resolved' private property issues has flagged some ineffective remediation works, and Watercare is working with Auckland Council's Compliance team to tighten up on the follow-up process.

5.1.9 Completed, planned and future investigations

Table 5-1 summarises the status of all projects within the four I&I bodies of work for the reporting year, including projects continuing into the next reporting period. Due to the reactive nature of some of the I&I investigation works, some of the catchment investigations planned for this financial year were either not started or their completion was delayed to next financial year.

Table 5-2 summarises the number of properties, along with the number of private and public issues identified within each investigation area completed during this reporting period.

Table 5-1 Detail of all 2024-25 I&I investigation projects

Programmes / Investigation Projects	Planned 2024-25	In Progress 2024-25	Completed 2024- 25	Planned 2025-26	Comments
WSL I&I Only Investigation Projects					
Glendowie WW PS Catchment Area 4 (Planned) FY25	1		1		Completed
Mt Wellington Aranui Rd 01 (Planned) FY25	1		1		Completed
Oakley Phase 3 (Planned) FY25	1		1		Completed
Wellsford Revists (Reactive) FY25	1		1		Completed
Warkworth Revists (Reactive) FY25	1		1	1	Completed. Further revisits planned for FY26
Red Beach 04				1	Planned for FY26
Otara South (Sub catchment 6)-FY22 (Planned)				1	Planned for FY26
Donegal Ave, Avondale				1	Planned for FY26
Riverview Rd, Tamaki				1	Planned for FY26
Hart Rd, Hauraki				1	Planned for FY26
Castaing Cres, Te Atatu South				1	Planned for FY26
Whitney St / Dundale Ave - FY23 (Planned)				1	Planned for FY26
Waiuku				1	Planned for FY26
Glendowie WW PS Catchment Area 2 (Planned) FY25				1	Planned for FY26
Onehunga Central (Subcatchment 3) (Planned) FY25				1	Planned for FY26
Onehunga East (Subcatchmnet 2) (Planned) FY25				1	Planned for FY26
Sub-total	5	0	5	12	

Programmes / Investigation Projects	Planned 2024-25	In Progress 2024-25	Completed 2024- 25	Planned 2025-26	Comments
Joint WSL I&I and HW Safe Networks Investigation Projects					
CBD - Ports of Auckland FY22					On-going targeted investigations
Kohimarama - FY23					Completed in FY24
Pixie Stream, Te Atatu South - FY23					Completed in FY24
Hobson Bay- Hapua HAP006 - FY24					Completed in FY24
Judges Bay - FY24					Completed in FY24
Flounder Bay - FY24					Completed in FY24
Heapfy St North and South, Blockhouse Bay FY24					Completed in FY24
Red Beach 03 - FY24	1		1		Completed in FY25
Orere Point (01) FY24	1	1			Ongoing investigations
Bucklands Beach Road FY24					Completed in FY24
Wairau Outlet-Milford FY24		1			Ongoing targeted investigations
Wairau Outlet-Lower Forest Hill - FY24		1			Ongoing targeted investigations
Wairau - Hillcrest 01 - FY25	1	1			Ongoing investigations
Pitt Avenue, Weymouth FY24	1	1			Ongoing targeted investigations
Red Beach 01 and 08 - FY25	1		1		Completed in FY25
Lynfield Cove (01 and 02) FY25	1		1		Completed in FY25
Pourewa Creek (03) FY25	1	1			Ongoing wet weather investigations
Orakei Creek (01) FY25	1	1			Ongoing investigations
Lucas Creek (01) FY25	1		1		Completed in FY25
Henderson Creek East 02 -FY25	1		1		Completed in FY25
Henderson Creek East 03 - FY25	1		1		Completed in FY25
Manutewhau 02 - FY25	1	1			Ongoing targeted investigations
Taipari Strand 01 - FY25	1	1			Ongoing targeted investigations

Programmes / Investigation Projects	Planned 2024-25	In Progress 2024-25	Completed 2024- 25	Planned 2025-26	Comments
Henderson Creek West -FY25	1			1	Re-scoped and rescheduled for FY26
Takapuna Beach 02-FY25	1	1			Ongoing targeted investigations
Takapuna Beach 03-FY25	1	1			Ongoing targeted investigations
Waterview 01 - FY25	1	1			Ongoing targeted investigations
Puhinui Creek 01 FY25	1		1		Completed in FY25
Puhinui Creek 02 FY25		1			Ongoing targeted investigations
Puhinui Creek 03 FY25		1			Ongoing targeted investigations
Hakanoa St, Grey Lynn FY25	1		1		Completed in FY25
Waiake Bay - FY25	1	1			Ongoing targeted investigations
Big Manly - FY25	1	1			Ongoing targeted investigations
Glenveagh-FY25	1		1		Completed targeted inspections in FY25
Jellicoe Basin - FY25	1	1			Ongoing targeted investigations
Wai O Taiki 02 FY25	1		1		Completed in FY25
Te Ara-rata 07 FY25	1		1		Completed in FY25
Blackgate Stream - FY25	1	1			Ongoing targeted investigations
Kohimarama 02 - FY25	1	1			Ongoing targeted investigations
CBD 01- FY26				1	Re-scoped and rescheduled for FY26
CBD 02- FY26				1	Re-scoped and rescheduled for FY26
CBD 03-FY26				1	Re-scoped and rescheduled for FY26
CBD 04-FY26				1	Re-scoped and rescheduled for FY26
Te Ara-rata 11 FY26				1	Re-scheduled for FY26
Stanmore Bay FY26				1	Planned for FY26
Freemans Bay Park - FY26				1	Planned for FY26
Pt Chevalier 01 - FY26				1	Planned for FY26
Waiata Stream 02 - FY26				1	Planned for FY26
Portland Stream 02 - FY26				1	Planned for FY26

Programmes / Investigation Projects	Planned 2024-25	In Progress 2024-25	Completed 2024- 25	Planned 2025-26	Comments
Sub-total	27	19	11	11	
Joint WSL and HW Western Water Quality Improvement Programme					
WIWQIP Waterview Private Issues Review and follow up field visits	1	0	1	0	Completed for FY24-25
Joint WSL and HW Eastern Water Quality Improvement Programme					
EIWQIP- Hobson South - Ascot Ave, St Vincents Ave FY24					Started in FY23 and Completed in FY24
EIWQIP-Newmarket - Arney Crescent HAP005 FY24					Completed in FY24
EIWQIP Hobson Branch 2 Portland Rd- FY24					Completed in FY24
EIWQIP Hobson Branch 1 Greenlane East -FY24					Completed in FY24
EIWQIP- Hobson Bay South- Abbots Way Koraha St Kelvin Rd FY24					Completed in FY24
EIWQIP-Stanley, Parnell- Gladstone Rd St Georges Bay Rd Cheshire St FY24					Completed in FY24
EIWQIP Auckland University -FY25	1		1		Completed for FY24-25
EIWQIP Shore Rd / Victoria Ave- FY25	1		1		Completed for FY24-25
EIWQIP Burwood Crescent- FY25	1		1		Completed for FY24-25
EIWQIP Spencer Rd, Ingram Rd, Aldred St- FY25	1		1		Completed for FY24-25
EIWQIP Standen Ave FY25	1		1		Completed for FY24-25
EIWQIP Leys Cres Bell Rd Portland Rd - FY25	1		1		Completed for FY24-25
EIWQIP Crocus Pl Buttle St Arney Rd FY25	1		1		Completed for FY24-25
EIWQIP Victoria Ave Portland Rd - FY25	1		1		Completed for FY24-25
EIWQIP Lingarth St - FY26				1	Planned for FY25-26
EIWQIP Manawa Rd - FY26				1	Planned for FY25-26

Programmes / Investigation Projects	Planned 2024-25	In Progress 2024-25	Completed 2024- 25	Planned 2025-26	Comments
EIWQIP Orakei Rd - FY26				1	Planned for FY25-26
EIWQIP Middleton Rd - FY26				1	Planned for FY25-26
Sub-total	9	0	9	4	

Table 5-2 Details of I&I investigations completed during the 2024-25 reporting period

Programmes / Investigation Projects Completed	Approx. No. of Properties	Total Private Drainage Issues	Total Public Drainage Issues	Comments
WSL I&I Only Investigations Projects				
Glendowie WW PS Catchment Area 4 (Planned) FY25	1037	95	17	Completed in FY25
Mt Wellington Aranui Rd 01 (Planned) FY25	516	50	19	Completed in FY25
Oakley Phase 3 (Planned) FY25	183	58	3	Completed in FY25
Wellsford Revists (Reactive) FY25		8	0	Completed in FY25. Included revisits to no access properties, commercial sites, schools and random checks to verify the compliance.
Warkworth Revists (Reactive) FY25		0	0	Completed in FY25. Included revisits to no access properties, commercial sites, schools and random checks to verify the compliance.
Joint WSL I&I and HW Safe Networks Investigations Projects				
Red Beach 03 - FY24	351	29	1	Completed in FY25
Lynfield Cove (01 and 02) FY25	1854	174	41	Completed in FY25
Red Beach 01 and 08 - FY25	9	2	4	Completed in FY25
Henderson Creek East 02 - FY25	77	9	1	Completed in FY25
Wai O Taiki 01 - FY25	361	11	28	Completed in FY25
Te Ara-rata 07 FY25	200	20	1	Completed in FY25
Lucas Creek (01), Henderson Creek East 03, Puhinui Creek 01, Hakanoa St 01, Glenveagh	15	19	10	Completed in FY25

Programmes / Investigation Projects Completed	Approx. No. of Properties	Total Private Drainage Issues	Total Public Drainage Issues	Comments
Joint WSL and HW Western Isthmus Water Quality Improvement Programme				
WIWQIP Waterview Private Issues Review and follow up field visits	887	562	0	Completed in FY25
Joint WSL and HW Eastern Water Quality Improvement Programme				
EIWQIP Auckland University -FY25	55	9	1	Completed in FY25
EIWQIP Shore Rd / Victoria Ave- FY25	36	18	0	Completed in FY25
EIWQIP Burwood Crescent- FY25	66	15	0	Completed in FY25
EIWQIP Spencer Rd, Ingram Rd, Aldred St- FY25	133	43	0	Completed in FY25
EIWQIP Standen Ave FY25	53	9	0	Completed in FY25
EIWQIP Leys Cres Bell Rd Portland Rd - FY25	144	24	0	Completed in FY25
EIWQIP Crocus Pl Buttle St Arney Rd FY25	142	16	4	Completed in FY25
EIWQIP Victoria Ave Portland Rd - FY25	289	63	8	Completed in FY25

Note: Although many investigations are shown as "Completed in FYXX" it is pointed out that 'compliance' activities can be on-going for several months or even years afterwards.

6 NETWORK IMPROVEMENTS

6.1 Introduction

The summary tables in this section comprise of improvement works projects that are either completed, in progress, or planned, that come from Watercare's Improvement Works Programme. This programme tracks significant network improvement projects across Auckland, and so the projects summarised in Section 6.3, Section 6.4, and Section 6.5 include major works only. Project dates listed in this Section depend on current work plans and all dates are subject to change.

6.1.1 Wastewater Network Strategy

Condition 13 of the NDC requires Watercare to prepare, review and update its Wastewater Network Strategy (WWNS) every six years, and implement the Wastewater Network Improvement Works Programme as set out in the WWNS. Conditions 15, 16, 17, 18, 20, 21 and 22 of the consents outline the requirements of the WWNS. These sections describe network improvement planning and prioritisation of network improvements for a period of six years. Watercare completed the first WWNS in 2017 and the second was completed in June 2023. The next iteration of the WWNS will be started in 2027 with submission in 2029.

6.1.2 Informing catchment analyses and improvements

Condition 9 requires the existing network to achieve an average of no more than two WWO events per EOP per year. If this is not Achieved, an alternative discharge frequency using Best Practicable Option methodology for that EOP must be determined.

System performance analysis is completed during modelling of both the transmission and local networks. This analysis provides a baseline and expected future performance of the network and EOPs. Watercare's modellers can then compare developments and changes to flows within a network to identify any changes to EOP performance.

The frequency and volume of EOPs and overall level of service within a catchment helps to determine the prioritisation of improvements, future projects, and catchment analysis. For each wastewater catchment, multiple criteria are assessed, including, but not limited to:

- EOP overflow volumes and frequencies
- Type 3 overflows (uncontrolled)
- Growth
- Level of service
- System performance
- Operational issues

Watercare's planners and engineers rank these criteria to set a prioritisation programme for catchment studies, options analysis and current and future improvement works within the Asset Management Plan and subsequently the WWNS.

In addition, the network performance is assessed against expected wet weather responses to identify where unexpected issues are occurring. Departures from expected performance feed into inflow and infiltration programmes.

6.2 Central Interceptor Programme

Projects that are specific to the Central Interceptor programme have not been included in this section as there are a high number of these projects and the nature of this programme is complex and extensive.

Information regarding site-specific Central Interceptor works can be found on the Watercare website (<https://www.watercare.co.nz/Central-interceptor>).

The Central Interceptor Tunnel was completed in March 2025 with the southern section going live and operational in January 2025. The full programme remains on track for completion at the end of 2026.

6.3 Works completed between 1 July 2024 and 30 June 2025

Table 6-1 lists wastewater network improvement projects completed during the reporting year. These projects included sewerage upgrades and relining.

Table 6-1 Wastewater network improvement projects completed in 2024-2025

Project Name	Reason for Project	Anticipated Outcome	NDC Catchment
East Coast Bays Link Sewer Upgrade	Install a new transmission sewer to cater for the predicted population growth proposed under the Auckland Unitary Plan. Avoid non-compliant discharges in the East Coast Bays catchment. Installation of 2.10 km of sewer from East Coast Road to the Rosedale Wastewater Treatment Plant. Completed in June 2025.	This new transmission sewer together with the proposed Mairangi Bay WWPS upgrade and new rising main increase the wastewater transmission capacity in the East Coast Bays catchment to service growth and also reduce overflows from EOPs 854 and 855.	East Coast Bays, Upper Harbour North
Warkworth to Snells Transfer Pipeline	Installation of a new conveyance sewer from Warkworth to Snells Wastewater Treatment Plant to increase capacity, including intermediate pump station. Installation complete in March 2025.	Cater for growth in the area and reduce overflows at EOPs 790, 1540 and 1258.	Warkworth
Kahika Rising Main Replacement	This project is to undertake design and construction to replace the Kahika Pump Station rising main and decommission large sections of the Kahika Branch Sewer including the four siphons. This project would increase the level of service, provide for future facility growth, improve health and safety and reduce the risk of an environmental event.	Increase the level of service, reduce overflow frequency, particularly at EOP 862, and provide for growth.	Upper Harbour South
Rehua Place E76:E93 Stage 2 and Aorere Park WW Pipeline	High I&I resulting in capacity constraints and uncontrolled overflows. Completed in December 2024.	Reduction in WWOs	Māngere

Project Name	Reason for Project	Anticipated Outcome	NDC Catchment
Taniwha Street WW Pipe Extension	Cater for population growth in Wai O Taiki Bay. Address network overflows. Project completed in July 2024.	Deliver improved level of service for the neighbourhood of Wai O Taiki Bay and cater for the forecasted growth in the area of approximately 1,200 dwellings by compensating for an existing insufficiency in the network	Lower Tāmaki River
Judges Bay Pump Station	To support the management of flows from the failing Branch 3B transmission line and to help protect and improve water quality in Judges Bay. Completed in June 2025.	To reduce overflows from EOP 730 and see water quality improvement at Judges Bay.	Central Auckland (CBD)
DPCIN Māngere Pump Station PS86	To connect to and support the Central Interceptor sewer line, enabling increased transfer capacity to service the Māngere area.	Reduce overflows in the catchment.	Māngere
Takapu Street WW Upgrade	Frequent uncontrolled overflows on Takapu St, I&I investigation of catchment is completed, however there is capacity constraint. Project completed in June 2025.	Resolution of uncontrolled overflows	Henderson Creek

6.4 Works in progress between 1 July 2024 and 30 June 2025

Table 6-2 provides a summary of all wastewater network improvement projects that took place, but were not completed, during the reporting year. There are many multi-year projects that continue to progress across the entire Auckland region, with a focus on East Coast Bays, Lower and Upper Tāmaki River and Western Isthmus catchments.

Works planned to begin between 1 July 2025 and June 2026

Table 6-3 provides a summary of wastewater network improvement projects Watercare has planned, as of June 2025, to begin in the 2025-2026 period, subject to approval of business cases. These projects are mainly in response to anticipated population growth and to reduce high frequency and volume of overflows in poorly performing areas. Engineered overflow points proposed for installation can be found in Appendix C.

Table 6-2 All projects associated with wastewater network upgrade and improvements that were underway during the reporting year 2024-2025

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Warkworth Growth Servicing	Design	To provide for greenfield growth in the north of Warkworth, by connecting to the existing township network and the Northeast Wastewater Scheme via installation of a 2.1km long wastewater pipeline.	Cater to growth in the area, increase capacity of the wastewater network and reduce WWOs in the network, especially at EOP 1540	2020-2028	Warkworth
DPWWS Warkworth Street Pump Station	Execution	Installation to support conveyance of sewer from Warkworth to Snells Wastewater Treatment Plant to increase capacity. Construction completed, commissioning underway.	Cater for growth in the area and reduce overflows at EOPs 790, 1540 and 1258.	2023-2025	Warkworth
Warkworth Heritage Bridge over pumping	Execution	Installation of over-pumping system on Elizabeth Street, Warkworth, to convey flows to a location downstream of EOP 1540, ensuring the constrained pipeline segment is bypassed	To reduce overflows from EOP 1540 on Elizabeth Street in Warkworth.	2024-2025	Warkworth

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		and mitigating the likelihood of upstream surcharge and overflow at EOP 1540. Construction complete, commissioning to complete by end of 2025.			
Waiwera Wastewater Servicing	Execution	Consolidation of WWTP, enabling decommissioning of non-compliant WW discharge at Waiwera WWTP. Involves constructing a new pipeline and pump station. Design complete and construction has started. Expected to be completed end of 2026.	Conveyance of Waiwera flows to Hatfields beach, ultimate treatment via Army Bay WWTP	2021-2026	Waiwera, Orewa
Silverdale West WW Rising Main (Opportunistic)	Feasibility	To provide wastewater service and to support growth in Silverdale West/Dairy Flat area as this area will become the focus for future light industrial growth north of Auckland	Cater for growth in Silverdale West and Dairy Flat area	2023-2031	Weiti, Orewa

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Hobbs Bay Pumping Station Contingency	Design	Critical condition concern around existing asset, primarily due to high H ₂ S resulting in rapid degradation of wet well structure and difficulties in accessing for maintenance. At detail design phase and revised completion date is 2027	Bypass solution is being enabled, providing resilience in the event of station failure and enabling the station to be taken offline for potential remediation	2022-2027	Whangaparāoa
Stanmore PS & RM Upgrade	Design	The current PS is unmaintainable as the current condition doesn't allow people to enter. Overflows from Stanmore PS is 6-10 per annum, into bathing beach. Currently manually optimised but capacity is constrained. There is also a high risk of failure due to ageing pipes and corrosion due to H ₂ S. Capacity and storage issues at Hobbs Bay Pump Station and significant odour issues	Resolve current capacity issues and support future growth. Build resilience and reduce failure risk. Reduce overflow frequency and improve water quality in stream and bathing beach	2022-2029	Whangaparāoa

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Gulf Harbour Wastewater Servicing	Execution	This project establishes a new 55 L/s pump station and a 200mm 400m rising main to resolve overflows into the Gulf Harbour marina and support development in the catchment. The current gravity pipeline that serves the pipeline is flat and is subject to operational issues, increasing the need for this project. Revised completion date is May 2026.	Resolves existing capacity constraints and uncontrolled overflows within Gulf Harbour, provides additional resilience to existing operational issues on dipped gravity pipeline. Provides for greenfield growth.	2022-2026	Whangaparāoa
Penlink Wastewater Pipeline	Design	Substantial growth is forecast in the Whangaparāoa Peninsula, Wēiti, Orewa, Silverdale and surrounding areas. The existing wastewater conveyance to Army Bay WWTP is unable to accommodate this growth through the existing network. Waka Kotahi's O Mahurangi –	Cater for substantial growth with a new wastewater pipework system that efficiently conveys wastewater to the Army Bay Wastewater Treatment Plant (WWTP) without bottlenecks	2018-2035	Whangaparāoa, Weiti, Orewa

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		Penlink project presents an opportunity to utilise this work to create a new network which avoids existing bottlenecks in the network			
Rerouting of transmission (trunk) system main associated with Alma pump station	Execution	Required to increase capacity to provide for population growth. Expected to complete early 2026.	Reduce overflow frequency and provide for growth. Addresses Type 3 location S28.	2018-2026	East Coast Bays
Jonathan Place Pipe Upgrades	Execution	Multiple overflows and additional customer complaints, 6 overflows per year. Construction to complete January 2026.	To ensure that the level of service target of two overflows (or less) per year are achieved	2021-2026	East Coast Bays
Wairau Valley Diversion	Feasibility	The Wairau branch sewer is currently capacity constrained and will need to be upgraded to continue servicing existing communities and accommodate for future demand of ~150k people. Providing conveyance through a storage tunnel directly	Reduce EOP and Type 3 overflows. Reviewing feasibility of tunnel to treatment plant.	2022-2032	East Coast Bays

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		to the Rosedale WWTP provides the ability to attenuate peak flows and reduce peak flow management and capacity at the WWTP			
Mairangi Bay gravity wastewater sewer upgrade	Design	The project is to construct ~700 m of 300 mm diameter pipe from the new pipe at Monterose Terrace (currently under construction), to resolve reoccurring overflows in the network, especially at 16 Jutland St Mirangi Bay, and remove the EOP from manhole 1295342.	Increase capacity to reduce overflows to Mairangi Bay Stream and beach during wet weather	2023-2026	East Coast Bays
Wairau Wastewater Pump Station Upgrades	Feasibility	Reduce overflow frequency and risk to public health and environment, reduce risk of asset failure. This will be addressed by replacing assets in poor condition and increasing the capacity of the Wairau pump station	Reduce high volume overflow from EOP 951 to under 2 spills/ annum from 5-6 spills/ annum and provide for growth. Reviewing feasibility of tunnel to treatment plant	2022-2032	East Coast Bays, Devonport-Takapuna, Shoal Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Torbay WW Network Upgrades	Studies and Investigation	Program involves 11 separate network capacity upgrades in sewers and pump stations, and provision of wet weather peak flow storage at key locations	Resolve multiple level of service issues and provide for growth	2022-2031	East Coast Bays, Long Bay
Forrest Hill WW Catchment Diversion	Feasibility	New pump station, storage tank and rising main to be built in Forest Hill region to accommodate for 72% growth in population over the next 50 years for Forest Hill, Seaview, Milford and Takapuna. Feasibility to complete December 2025.	The project will help reduce both controlled and uncontrolled overflows into local beaches and swimming areas to help protect public health and the environment	2022-2028	East Coast Bays, Takapuna
Renewal and upgrade of remainder of rising main and upgrade Lake Road Northcote pump station	Execution	Rising main has a history of failure, WWOs in existing and future scenarios, approx. 4 hours storage, high risk of spill if cannot be repaired in this time. On track and expected to finish end of 2025.	Reduced risk of DWOs as a result of asset failure. Reduces overflow volume/frequency at EOPs 830, 863 and Type 3 location S26 and allows for growth	2021-2025	Shoal Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Northcote-Chatswood WW Network Upgrades	Design	There are known existing capacity issues and population is predicted to grow significantly in the Northcote-Chatswood wastewater catchment	Increase capacity and reduce overflow frequency & volume at EOPs 836, 844, 861, 863 and Type 3 location S26 and to allow for growth	2018-2027	Shoal Bay, East Coast Bays
Unsworth Heights Diversion	Feasibility	Multiple uncontrolled overflows during wet weather events and occasionally dry weather due to capacity constraints in local network. Feasibility to complete September 2026.	Reduce multiple uncontrolled overflows. Upsize the pipe to increase flow capacity constraints	2023-2027	Upper Harbour North
Kahika Pump Station Upgrades and RM Extension	Execution	Extension of the Kahika Rising main is required to cope with the future pump rate, and to alleviate surcharge in the tunnel that connects to the Wairau diversion. Revised completion date to April 2026.	To cater for recent development of the area, reduce overflows at EOP862	2023-2026	Upper Harbour South
Whenuapai & Redhills Wastewater Servicing	Execution	Growth of 20k residents in Whenuapai region between 2022 & 2065. This project consist of	Allow for future growth	2018-2028	Upper Harbour West

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		three packages, specifically providing wastewater services to the future urban zone that is currently not serviced			
Brighams Creek, Redhills PS and sewer upgrade 1	Feasibility	Upsize the pump station from the 320L/s current capacity to 1000L/s to cater for growth	Greenfields growth servicing	2028-2033	Upper Harbour West
Northern Interceptor - Stage 1	Execution	To allow wastewater flows to be diverted from the Northern Strategic Growth Area (NorSGA) and South Rodney (Kumeū / Huapai/Riverhead) to the Rosedale wastewater treatment plant. This work will balance flows at the treatment plants and provide additional capacity to the Western Interceptor. The construction of the pipeline completed in June 2025. However, connections to the	Allow for growth and reduce overflows at EOP 1275 and Type 3 overflow locations S20, S21, S24. Allow for load balancing between treatment plants	2021-2026	Upper Harbour West, Kumeū/Huapai, Henderson Creek, Whau River

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		WWTP are underway and is expected to completed end of 2026.			
Northern Interceptor Stage 2	Design	To extend the Northern Interceptor to Westgate to service growth in the northwest and enable the Northern Interceptor Stage 4. The work should be completed by 2029.	Cater to growth and reduce overflows across the north-west of Auckland.	2022-2029	Upper Harbour West, Henderson Creek, Whau River
Northern Interceptor Stage 4	Feasibility	To extend the Northern Interceptor to Henderson to address overflows and increase capacity	Cater to growth and reduce overflows across the north-west of Auckland.	2023-2036	Upper Harbour West, Henderson Creek, Whau River
Te Atatū north wastewater upgrades	Scoping	To identify degrading wastewater assets in the area with already limited capacity and implement improvement measures across the area by undertaking replacements and upgrades to increase capacity.	Allow for growth and reduce overflows.	2025 -2040	Henderson Creek, Whau River
Glen Eden Branch Sewer upgrade	Scoping	Implement upgrades to the aging critical wastewater asset - Glen	To reduce overflows and increase capacity.	2023-2036	Henderson Creek, Whau River

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		Eden Branch Sewer line to address overflows in areas of Henderson and Whau River catchments where there are prevailing capacity issues. The project is in early investigations stage currently.			
Swanson Branch Sewer Upgrade	Scoping	Implement upgrades to the aging critical wastewater asset – Swanson Branch Sewer line to address overflows in areas of Henderson catchment where there are prevailing capacity issues. The project is being defined currently.	To reduce overflows and increase capacity.	2024-2040	Henderson Creek, Whau River
WIWQIP Westmere WW Catchment Improvement Works	Feasibility	Modelled and actual overflows are in excess of the level of service required and in excess of network discharge consent. There are numerous network throttles and restrictions. The throttle to main outlet to Ōrākei	Reduced EOP overflow frequencies to reach target of <2 per year, across the 14 active EOPs. Reduce uncontrolled overflows along the network. Reduce discharge into Motions Creek in turn	2023-2031	Cox's Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		sewer shown as 150mm in GIS, but modelled as a 300mm. There is backwater effects from Ōrākei Main likely to occur	improving water quality of the stream		
WIWQIP Grey Lynn Park Stage 1 & Branch 6 Collector	Design	Modelled and actual overflows are in excess above level of service required and in excess of network discharge consent	Increase stormwater capacity, reduced overflows and I&I, improving health of waterways	2024-2031	Cox's bay
WIWQIP Herne Bay WW Branch 5 Upgrade	Design	Upgrade aging asset to improve efficiency and capacity of network here, reducing overflow volumes and frequencies. Desing to complete end of June 2026.	Reduce EOP overflow frequency and volume to reach NDC targets if <2 p.a in the area serviced by Branch 5, including poorly performing EOPs 712 and 201. Reduce uncontrolled overflows from the branch. In turn, improve water quality of streams in this catchment	2022-2028	Cox's Bay, Western Isthmus

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Central Interceptor and Link Sewers	Execution	Reduce WWO frequency and volumes at the largest overflow sites, provide water quality improvements and allow for growth	The CI and Link Sewers will immediately reduce WWOs from approximately 15 EOPs, including two of Auckland's most significant overflows at Lyons Ave and Haverstock EOPs	2019-2026	Western Isthmus / Cox's Bay
WIWQIP Pt Chev WW Catchment Improvement Works (CC1)	Feasibility	Reduces WWO volume/frequency, provide water quality improvement and allow for growth. This project involves new collector sewers CC1 (gravity sewer to Central Interceptor at Rawalpindi Shaft) in the Pt Chevalier Catchment	Reduction in the frequency and volume of wet weather wastewater overflows in combined sewer area	2023 - 2029	Western Isthmus / Cox's Bay
WIWQIP Oakley (CC9 - Keith Hay Park)	Construction	CC9 Collector sewer to address WWOs, provide water quality improvements and allow for growth	Reduction in the frequency and volume of wet weather wastewater overflows	2023-2026	Western Isthmus / Cox's Bay
WIWQIP Avondale_Whau CC6 Stage 1 to PS25 Shaft	Design	Modelled and actual overflows are in excess of level of service required, and in excess of targets set by NDC	Reduction in the frequency and volume of wet weather wastewater overflows in combined sewer area	2022-2029	Western Isthmus, Cox's Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
WIWQIP Waterview Stage 2 of Avondale Br Sewer CC6	Design	Modelled and actual overflows are in excess above level of service required and in excess of network discharge consent. Revised completion date to June 2028.	Reduction in the frequency and volume of wet weather wastewater overflows in combined sewer area	2023-2028	Western Isthmus, Cox's Bay
WIWQIP Avondale Whau CC7A and CC7A1 to Miranda Shaft	Feasibility	Reduces WWO volume/frequency, provides water quality improvements and allows for growth. This project involves new collector sewers CC7A and CC7A1 (gravity sewers to Central Interceptor at Miranda Shaft) in the Avondale / Whau Catchment. Feasibility to complete end of 2025.	Reduction in the frequency and volume of wet weather wastewater overflows in combined sewer area	2024 - 2027	Western Isthmus, Cox's Bay
WIWQIP Avondale Lynfield Branch To Haycock Shaft	Feasibility	Modelled and actual overflows are in excess above level of service required and in excess of NDC limit. Feasibility to complete in October 2026.	Increase capacity, reduce WWOs from EOPs, reduce volume of inflow and infiltration into the network	2024-2033	Western Isthmus, Cox's Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Queen Street Diversion	Design	To address growth in the CBD area, frequent EOP overflows and the risk of aging assets in poor condition by constructing a new large diameter pipe discharging into the Ōrākei Main Sewer and planned diversion of the upstream local catchment via a new small diameter pipe along Vincent and Albert Streets	Allow for growth and reduce overflows at EOPs 76, 123, 128	2020-2027	Central Auckland (CBD)
Newmarket Gully	Feasibility	The Hobson Bay catchment's combined sewer system is prone to overflows during wet weather events beyond the allowance of the Network Discharge Consent, reducing water quality in Hobson Bay to unsafe levels. A new tunnel is required to increase storage capacity	Mitigate the following EOPs: Newmarket Gully/Branch 3 EOPs: 733, 421, 1630, 424, 511, 704, 509. Branch 2 EOPs: 500, 502, 503, 504, 505, 507, 597, 498. Branch 1 EOPs: 280, 1621, 273, 295, 598, 296, 1522, 286, 279, 272, 586, 587, 588, 274. Using a storage tunnel pumping wet weather flows to PS64, reducing	2023-2030	Hobson Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
			overflows in the Hobson Bay catchment, satisfying the Network Discharge Consent conditions		
HLC Oranga Wastewater Servicing	Feasibility	To maintain the required level of service and support for a large scale Kainga Ora development	Cater for growth, ensuring level of service for large development	2022-2028	Onehunga
Archboyd Ave PS and Associated Pipelines	Execution	Currently not meeting existing level of service, allow for future population increase especially from Kāinga Ora in the Buckland and Wickman, Māngere East and Favona neighbourhoods. On track. Construction to complete in 2027.	Reduce overflow frequency / volume at EOPs 963, 973 and Type 3 location S53	2021-2031	Māngere
KO - Māngere Wastewater Improvements	Execution	To service Kainga Ora housing development programmes. Construction has started.	Ensure adequate infrastructure and services in place for future growth	2022-2040	Māngere
HLC Māngere WW Improvements Programme	Feasibility	Aging assets need to be upgraded to maintain level of service and to support growth in wider	Projects within this programme of works will resolve current capacity issues within	2024-2028	Māngere

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		community. Capacity constraints already present in Māngere catchment, which need to be resolved	the catchment, including reduction in uncontrolled overflows, and accommodate future growth		
Dunkirk Stage 2 Rising Main	Execution	To provide additional capacity for growth in the area by connecting Dunkirk PS to Eastern Interceptor through new rising main	Increase capacity and reduce overflows. Phase2 will provide for ongoing growth in the catchment and resolve all overflows except EOP 163	2021-2028	Lower Tāmaki River
WWT TARP Panmure Basin Rising Main	Execution	The Pump Station has shown evidence of pipe deterioration, which often results in the formation of pinhole leaks. Failure of internal pipework may result in the interruption of service, uncontrolled overflows into Panmure Basin creating a health and safety hazard. Revised finish date in April 2026.	Increased lifespan of the asset by replacement of major operational components as well as a reconfiguration of internal equipment to achieve safe egress requirements	2022-2026	Lower Tāmaki River

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
WWT TARP Panmure Basin WWPS	Execution	The existing rising main is an asbestos cement pipeline and has completed the expected service life. It is also located within private properties making maintenance accessibility not as easily achieved. Revised finish date is April 2026.	Increased lifespan of the asset by replacement, re-alignment of the pipeline for ease of access and continued maintenance and a capacity increase to cater for future demand flow	2022-2026	Lower Tāmaki River
PS14 Upgrade Tāmaki	Design	Population expected to increase. There are current capacity issues, and suspected type 3 overflows. Predicted sea level rise at the current PS site. Feasibility has completed and the project has moved to design stage since last update.	To increase capacity and reduce uncontrolled overflows. Improve resilience to seawater rise at this site	2022-2027	Lower Tāmaki River
Otara Catchment WW Capacity Upgrades	Execution	Provide sufficient wastewater capacity in the Otara catchment to support the projected population growth and resolve transmission network overflows on	Reduce overflow frequency and volume from five Type 3 overflows: S7, S35, S58, S59, and S60 / provide capacity for future growth	2015-2028	Upper Tāmaki River

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		the Southern Interceptor. Revised completion date is June 2028.			
Otara local network upgrade	Design	Project aligned with network discharge consent target of 2 p.a. Population increase of approximately 15,000 over the next 30 years. Housing intensification is largely the driver of growth.	Allow for growth and reduce overflows at EOP 961 and existing uncontrolled overflows in the catchment	2022-2028	Upper Tāmaki River
Howick WW Catchment System Upgrades	Feasibility	The Howick Diversion project has been developed to divert flows from the Howick Interceptor (HIN) and Buckland Beach Branch Sewer (BBH) towards the Tāmaki Interceptor (TIN). The revised completion date is March 2031	Improve capacity in the network to provide for growth, and to reduce overflows	2023-2031	Upper Tāmaki River
Southern Auckland WW Servicing Scheme	Design	To cater for growth by diverting flows away from the constrained Southern Interceptor to	Reduction in overflows at Hingaia WWPS	2018-2030	Pahurehure Inlet

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		provide capacity and resolve subsequent overflows at Hingaia WWPS. Involves constructing new rising main from Hingaia PS to Manurewa South PS			
Drury West Transmission Sewer Design	Design	Cater for substantial growth. On hold due to developer passing away and revised completion date is end of 2030.	Provide new infrastructure for developments	2021-2030	Pahurehure Inlet
Pukekohe TS - Isabella PS	Execution	Business Case for Pukekohe TS - Isabella PS, additional service will be required to support development needs in the Pukekohe and Paerata area. On track and estimated for completion in May 2028.	Support population growth	2021-2028	Pukekohe
Jutland Pump Station Diversion (Pukekohe)	Execution	Jutland Road pump station servicing Belmont Special Housing Area (SHA) is being throttled to 20l/s due to a lack of downstream capacity and limit further development in	The Jutland pump station operational limit can be removed and allow for the full design capacity of 50l/s and allow development in the SHA and Future	2022-2026	Pukekohe

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		the SHA and future urban area. Expected completion date is July 2026.	Urban area of Pukekohe West to continue		
Paerata wastewater servicing	Feasibility	<p>The Pukekohe-Paerata Structure Plan was adopted by Auckland Council on 6 August 2019 and defines a land release schedule.</p> <p>Pukekohe East - Developer interest in the eastern area of Pukekohe has increased with recent Government investment under the Infrastructure Acceleration Fund. The Golding Meadows Development is requesting connection to the system and has proposed a servicing plan. Watercare needs to review this servicing plan to confirm alignment with wider servicing plans and define Watercare servicing scope</p>	Provide service to the projected developments within the northern catchment of the Pukekohe region	2023-2030	Pukekohe

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
WIWQIP Pt Erin Extension to Central Interceptor	Design	Reduces WWO volume/frequency, provides water quality improvements and allows for growth. This project involves construction of an extension of the Central Interceptor to Pt Erin to collect overflows from Branch 5 and improve performance of the St Marys Bay Tunnel	Reduction in the frequency and volume of wet weather wastewater overflows in combined sewer area	2022 - 2026	Western Isthmus
Unitec WW Pipe Bridge Upgrade	Execution	Additional wastewater network capacity will be required to service upcoming developments as well as any future infill growth. Currently there are some substantial capacity constraints in the network downstream of the proposed development. This project has progressed to construction phase since last update.	This project will eliminate overflows from EOP 1519, reducing overall spill volume by approximately 9,000m ³ per year, and enable future development in the catchment	2022-2040	Western Isthmus

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
WIWQIP Waterview Separation Works	Design	High level of redevelopment expected due to HNZ works and currently high frequency overflows in this combined sewer area	Reduction in the frequency and volume of wastewater overflows and provide capacity for growth	2023-2029	Western Isthmus
WIWQIP Motions WW Catchment Improvements Works	Design	Modelled and actual overflows are in excess above level of service required and in excess of the network discharge consent	Reduce EOP overflows to meet < 2 p.a target. Provide increased capacity to service future growth. In turn improve water quality of Motions Creek	2023-2031	Western Isthmus
WIWQIP - Grey Lynn Tunnel	Execution	Reduces WWO volume/frequency, provide water quality and allow for growth. This project involves an extension of the Central Interceptor to Grey Lynn to collect overflows from Kelmarna and Tawariki overflows. Construction is complete and in commissioning stage.	Reduction in the frequency and volume of wastewater overflow in combined sewer area.	2022 - 2026	Western Isthmus, Cox's Bay
WIWQIP Grey Lynn Catchment Improvement Works -	Design	Programme of work to enable growth and reduce wet weather overflows. Improve	Reduction in the frequency and volume of wastewater overflow at Type 2 EOP	2024-2032	Western Isthmus, Cox's Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
Link Sewer to Kelmarna Ave		watercourse and water quality. Construction is expected to start in 2030.			
Clonbern Road WW Diversion	Design	The Clonbern Rd WW Diversion project seeks to address a local networks sewer line that is currently in poor condition, identified in 2021. The project incorporates a new sewer line through the road corridor and includes rehabilitation of the existing sewer line to continue serving the property connections. Flows will be diverted upstream of the failed line in to the new sewer asset and connect back in via MH34 of the Branch 1 Remuera Line. Detail design is being finalised. Revised completion date is end of 2026.	Replace the end-of-life assets and build resilience within the network.	2023-2026	Hobson Bay

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
WWT TARP Wairau Valley Branch TS	Design	This asset has been identified as being in poor condition and is a critical asset to WSL's wastewater network. Design completed and in procurement phase. Construction is expected to start in January 2026 and completion in August 2026.	Reduction in infiltration, increased network resilience and performance	2023-2026	East Coast Bays
Linwood Avenue Pipe Upgrades	In scoping	High number of uncontrolled overflows here are caused by combination of I&I and capacity constraints in downstream pipeline. New wastewater pipes are needed to ensure target of 2 or less overflows from EOPs are achieved	Reduce EOP overflows to meet 2 p.a standard and reduce uncontrolled spills from MH at 9 Woodstock Rd	2025-2029	East Coast Bays
Castledine Catchment diversion to EIN	Design	Kainga Ora development expected to exacerbate the EOP overflows from 6 spills per year to approx. 20+	Reduce overflows at Taniwha St EOP, resolve local network capacity constraints	2024-2026	Lower Tāmaki River

Project Name	Project Stage	Reason for project	Expected Outcome	Estimated Timeframe	Catchments
		spills a year. This needs to be addressed by increasing pipe capacity. Currently at detailed design stage.			
Beach Haven Diversion	Feasibility	To address underperforming EOPs that overflow due to capacity constraints. Our wastewater model shows there is a lack of capacity in the 225mm network. The planned housing development at Birkdale Rd will also exacerbate the problem. The expected completion date is 2033.	Reduce EOP and uncontrolled overflows, support growth by increasing capacity through a new conveyance system	2024-2033	Upper Harbour South
FY26 Local WW renewals - Orakei	Design	To address ageing and underperforming pipeline assets in the Ōrākei area through targeted renewals and replacements	Reduce EOP and uncontrolled overflows in the area.	2024-2026	Hobson Bay

Table 6-3 Planned wastewater network upgrade and improvement projects beginning in 2025-2026 reporting year

Project Name	Reason for Project	Anticipated Outcome	Estimated Timeframe	Catchments
WIWQIP Freemans Bay Wastewater Upgrade	To reduce wet weather overflow volume/ frequency, provides water quality improvements and allows for growth in Freeman's Bay.	Reduce the frequency and volume of wet weather wastewater overflows in combined sewer area (EOP 183)	2026-2029	Western Isthmus / Cox's Bay
Orakei Main Sewer (Auckland Zoo)	May 2025, two significant defects were identified within the Auckland Zoo between MH35 and MH34. These defects required urgent intervention to prevent unplanned failure. The Project is to identify the defects and repair the OMS in this area.	Complete immediate repair on section of OMS to prevent imminent collapse	2025-2026	Hobson Bay
WIWQIP Oakley WW Catchment Improvement Works	Wastewater upgrades to address WWOs, provide water quality improvements and allow for growth. This project is in the scoping phase.	Reduction in the frequency and volume of wet weather wastewater overflows	2025-2029	Western Isthmus (Central Interceptor) / Cox's Bay

7 NEW ASSETS

7.1 Introduction

Continued development and population growth in Auckland require Watercare to make additions to both the local and transmission wastewater networks. This allows Watercare to service areas of urban intensification and greenfield growth.

7.2 New pump stations installed in 2024-2025

There have been four complex assets commissioned during the reporting period, with the details presented in Table 7-1.

Table 7-1 Pump stations installed during 2024-25 reporting period

Facility Code and Name	Catchment	Date Installed	Reason for New Asset
DPTAN Tangaroa Street Pump Station	Lower Tamaki River	March 2025	Replaces Dunkirk Pump Station PS53 to cater to growth in the region.
DPPRC Prices Road Pump Station	Puhinui	August 2024	To service a new industrial development.
DPJSR Johnson Road Pump Station	Pahurehure Inlet	December 2024	To service a new development.
DPOLG Olga Road Pump Station	Upper Tamaki River	January 2025	To service a new development.
DPWWS Warkworth Street Pump Station	Warkworth	August 2024	Cater for growth in the area

7.3 Other network assets

New WW network pipes added to cater to the growth in the region include -

- East Coast Bay Link Sewer line spanning about 2.1 Kilometres was commissioned in July 2024. This new transmission sewer together with the proposed Mairangi Bay WWPS upgrade and new rising main increase the wastewater transmission capacity in the East Coast Bays catchment to service growth in the catchment
- Warkworth to Snells Transfer pipeline works has been completed in March 2025 covering a total distance of about 5.1 Kilometres to provide conveyance of sewer from Warkworth to Snells Wastewater Treatment Plant to increase capacity and cater for growth in the area
- Northern Interceptor Stage -1 has finished construction adding 9.7kms of wastewater pipeline to divert flows from from the Northern Strategic Growth Area (NorSGA) and South Rodney (Kumeū / Huapai/Riverhead) to the Rosedale wastewater treatment plant. Currently integration of this line to the Rosedale WWTP is in progress and is expected to be completed by end of 2026

8 PUBLIC INFORMATION

8.1 Publicly available information

Condition 65 of the NDC requires Watercare to make information about the NDC available to the general public. Specifically, Watercare needs to provide:

- General information on the wastewater network and material about undertaking works in the vicinity of wastewater pipes, to help prevent accidental damage that could result in wastewater discharges
- Information about wastewater and stormwater drainage, and the need and reasons for ensuring that service connections on properties drain into the appropriate system, including advice for property owners on how this can be achieved
- General information for private property owners who believe they may have cross connections about how they can test for this and rectify it
- Information about the general function and operation of the wastewater network, including information about the nature of wet weather wastewater overflows and information directed at raising awareness about the potential effects on the receiving environment
- Information about the location of Engineered Overflow Points that are known to discharge at high volume more than 12 times per year, and the risk of contact recreation at these locations following periods of heavy rain

Watercare hosts a range of pages that include information about the wastewater on its website (www.watercare.co.nz). The following sub-section details the range of information available to the public.

8.1.1 Undertaking works

Watercare presents material about undertaking works in the vicinity of wastewater pipes, to help prevent accidental damage that could result in wastewater discharge:

<https://www.watercare.co.nz/builders-and-developers/about-works-over/working-near-or-over-our-assets>

8.1.2 Wastewater and stormwater drainage

For information on how the wastewater system is designed, and how overflows occur, and what can be done to prevent outflows:

<https://www.watercare.co.nz/home/faults-and-outages/how-we-manage-wastewater-overflows> ; <https://www.watercare.co.nz/residents/learn/what-not-to-flush>

Watercare responsibilities for the wastewater network:

<https://www.watercare.co.nz/residents/help-and-support/who-is-responsible>

Stormwater and wastewater lessons for schools:

<https://www.watercare.co.nz/residents/learn/free-water-education-lessons>

Disposal of fats, oils, and grease: <https://www.watercare.co.nz/residents/learn/what-not-to-flush>

8.1.3 Cross-connections

Information about wastewater and stormwater drainage, and the need and reasons for ensuring that service connections on properties drain into the appropriate system, including advice for property owners on how this can be achieved: <https://www.watercare.co.nz/home/faults-and-outages/how-to-prevent-blockages-and-overflows>

General information for private property owners who believe they may have cross-connections, how to test for this and rectify it: <https://www.watercare.co.nz/home/faults-and-outages/how-to-prevent-blockages-and-overflows>. We now have translations in five different languages.

8.1.4 General function

For general information about the wastewater network:

<https://www.watercare.co.nz/home/about-us/what-we-do/wastewater>

<https://www.watercare.co.nz/home/faults-and-outages/how-wemanage-wastewater-overflows>

In addition to the above, Watercare operates a 24/7 customer call centre. Customer requests for information are logged and responded to accordingly:

<https://www.watercare.co.nz/home/faults-and-outages>

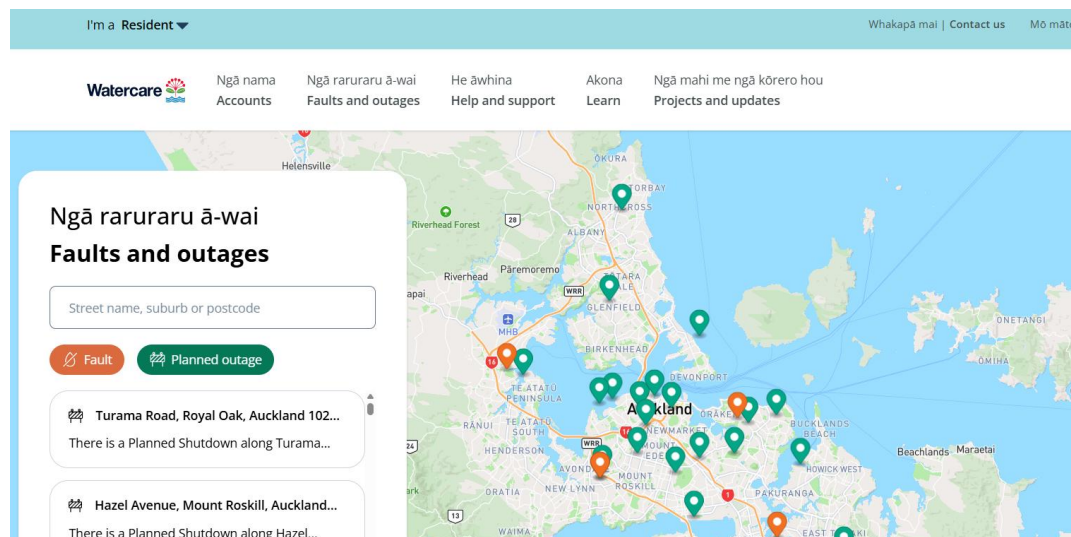


Figure 8-1 Fault and outages used to educate communities

8.1.5 Engineered Overflow Points

Information on wastewater overflow points and performance goals for WWOs, sustainability measures, and projects that reduce overflows:

<https://www.watercare.co.nz/home/faults-and-outages/how-we-manage-wastewater-overflows>;

<https://www.watercare.co.nz/residents/help-and-support/wastewater-faqs>

The Safeswim website provides information on the safety of swimming at Auckland's beaches (<https://safeswim.org.nz>). The Safeswim model uses real-time data from a range of models, including Watercare's wastewater water network models, with the ability for Watercare and HW staff to make manual overrides as appropriate. This is often supported by social media posts notifying public of

new black flags. A report is available upon request which contains information about specific Engineered Overflow Points integrated into the Safeswim system.

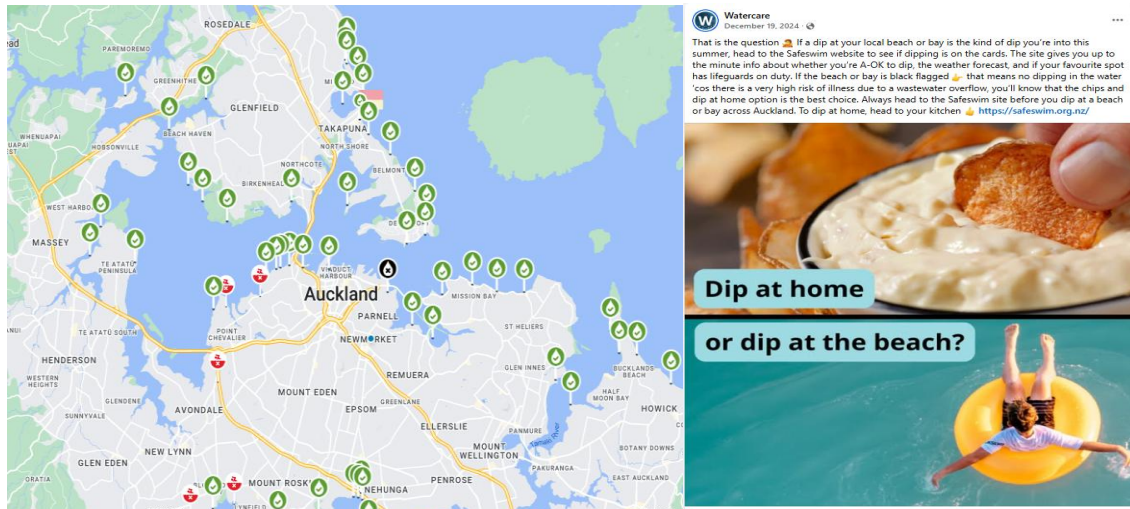


Figure 8-2 Examples of Safeswim website showing swimmable beaches, and a Facebook post associated with Safeswim

8.2 Other initiatives

Key updates since the 2023-24 report

Since the previous reporting period, several key updates have been made across Watercare's public education and engagement activities:

- Ongoing Education (see section 8.2.3): Continued release of *Tapped In* newsletters, with increased student participation in the school education programme and greater community reach through local events and libraries
- Campaigns and Social-Media (see section 8.2.5): New social media campaigns and posts were launched to promote correct wastewater use and system awareness, supported by platform expansion and increased engagement
- Maintenance Vehicle Signage (see section 8.2.6): New signage introduced across 14 maintenance vehicles, improving visibility and reinforcing messages about preventing blockages
- Metropolitan Servicing Strategy (see section 8.2.7): Public engagement undertaken from March–June 2025 to raise awareness of wastewater treatment and future water challenges, with findings to be published in August 2025
- Business Plan (see section 8.2.8): Release of Watercare's first 10-year Business Plan in March 2025, outlining \$13.8 billion in infrastructure investment, including major upgrades to manage wastewater overflows and inflow/infiltration

8.2.1 Website refresh

Watercare launched a new website and 'my account' self-service portal in June 2024. These were designed to provide an intuitive and enhanced customer experience. The improvements are the result of extensive co-design sessions with various customer segments, including homeowners, tenants, and property managers. The website now creates a segmented journey, delivering relevant information tailored to whether our users are residential customers, business owners, property managements, developers or solicitors. This provides information about wastewater and appropriate management that is tailored to each of the customer segment needs. The website

refresh included the addition of information in Mandarin about how to manage accounts, how to reduce overflows:

<https://www.watercare.co.nz/residents/help-and-support/information-on-managing-your-account-for-mandarin-speakers>

8.2.2 Local board engagement

Local Boards receive information from Watercare about how they are delivering the work programme, which includes information about improvements to increase capacity of the wastewater network. This is tailored to local board needs and is delivered in the format required by the local board. This provides local boards with oversight at both major project level, as well as proactive and reactive work. Local boards are also given updates when there are black flag events.

8.2.3 Ongoing education

Watercare continues to educate the public on the causes of overflows and the actions private property owners can take to reduce the frequency and volume of overflows. Efforts include presentations at community events and distributing newsletters in specific communities to educate people about overflows. Tapped in is now released four times a year to distribute general information.

[Tapped in winter 2024](#), Articles: Central Interceptor (CI), Midtown, Dunkirk and Mairangi Bay WW projects (Figure 8-7 shows the cover page and CI coverage from the newsletter)

[Tapped in Autumn 2025](#), Articles: Large wastewater projects (refer Figure 8-8 for a snapshot of the newsletter)

The ‘Keeping your pipes flowing’ poster which shows how to maintain pipes and use them correctly is available on the website in different languages (refer Figure 8-6)

<https://www.watercare.co.nz/home/faults-and-outages/how-to-prevent-blockages-and-overflows>

Our school education programme “WAI” delivered 526 classes across Tāmaki Makaurau to 15,876 students from kindergarten to year 8. A total of 58 schools, 11 libraries, and 47 suburbs were engaged through the public education and awareness programme during this reporting period. Lesson five of the curriculum is focused on helping children learn about the impact of putting the wrong things down the drain and the journey of water to the beaches and waterways, as shown in Figure 8-3.

Lesson 5: Years 0-8

Stormwater and wastewater

Your students will learn about:

- The difference between stormwater and wastewater
- What happens when the wrong things go down the drain
- What they can do at home and school to improve their local environment

This lesson is a hands-on, collaborative outdoor activity where your students create a terrain with lakes and rivers, to consolidate what they learn in class about the journey water makes from lakes, down rivers and smaller waterways to the sea.

Figure 8-3 Overview of Lesson 5 Stormwater and wastewater

8.2.4 Social media initiatives

Watercare has launched onto the TikTok platform for a greater audience reach in May 2022. Tiktok provides an alternative platform where the public can view videos that provide community members education to identifying leaks, using tap water over bottled water, water saving measures and incorrect item disposal: https://www.tiktok.com/@watercare_nz

Disposal of items:

- https://www.tiktok.com/@watercare_nz/video/7381585359630519560
- https://www.tiktok.com/@watercare_nz/video/7340899929822416130
- https://www.tiktok.com/@watercare_nz/video/7490780167930105095

8.2.5 Campaigns

Watercare has run numerous social media campaigns to educate communities on the wastewater network. These were often targeted and in geographical locations where there were known problems occurring in the network. A few examples are shown below.

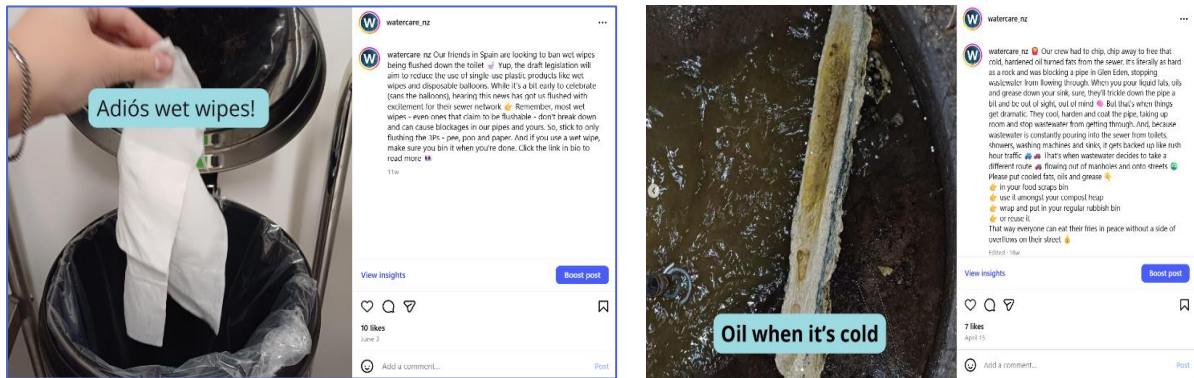


Figure 8-4 Social media posts used to educate communities

8.2.6 Maintenance vehicle signage

Watercare has invested in new signage for 14 of our maintenance vehicles to help raise community awareness of the wastewater network. The signage is designed to be visible across Auckland as our crews work in different neighbourhoods, acting as a moving reminder of what not to flush, to ensure we reduce blockages and keep our pipes flowing.



Figure 8-5 Vehicle signage to educate communities on what not to flush

8.2.7 Metropolitan Servicing Strategy

As part of our Metropolitan Servicing Strategy, from March to June 2025, we have been engaging with communities across Auckland to build understanding of our water and wastewater systems, and the water challenges we face now and into the future.

Through a mix of events, digital resources, and opportunities for feedback, we've helped demonstrate:

- Where Auckland's water comes from
- How it's treated and managed
- The role we all play in supporting a sustainable water future

This work is about empowering Aucklanders with the knowledge and tools to make informed decisions and support long-term water resilience as our region continues to grow.

What we heard from communities across the region, people told us that they want:

- The basics done well – reducing overflows and fixing leaks
- To be prepared for extreme weather events and protecting our assets from these events
- Infrastructure that lasts into the future and ensures a better future for future generations
- Smarter use of existing resources, and safe ways to use new resources in the future

A public engagement report will be published in August 2025 to share the full findings of this consultation and outline the implications for the [Metropolitan Servicing Strategy](#) and Auckland's long-term water planning.

8.2.8 Business plan

In March 2025 we unveiled our first 10-year business plan, which was a critical milestone in our journey to become financially independent of Auckland Council on 1 July 2025. The plan details how we'll invest \$13.8 billion in over 1000 projects while ensuring an affordable price path for customers. Over the next 10 years, we will spend an average of \$3.8 million every day on our infrastructure programme. About half of that investment will be dedicated to replacing or upgrading existing assets and the other half will be spent on expanding our networks to support population growth. The plan includes two mega-programmes of work valued at over \$1 billion. A key focus of our investment is wastewater overflow management, we're upgrading critical infrastructure, deploying smart sensors across the network, and working with property owners to reduce inflow and infiltration. These efforts will significantly reduce the frequency and volume of overflows, improving environmental outcomes and protecting public health.

In west Auckland, we will replace the ageing Huia Water Treatment Plant with a plant that can produce up to 160 million litres a day to improve system resilience. As part of this project, we will replace two watermains that convey water from the dams to the plant and we will build two large storage reservoirs. Our other largest area of investment is the Māngere Wastewater Treatment Plant. We will upgrade equipment and improve processes to ensure we can continue to meet strict discharge requirements protecting the Manukau Harbour.

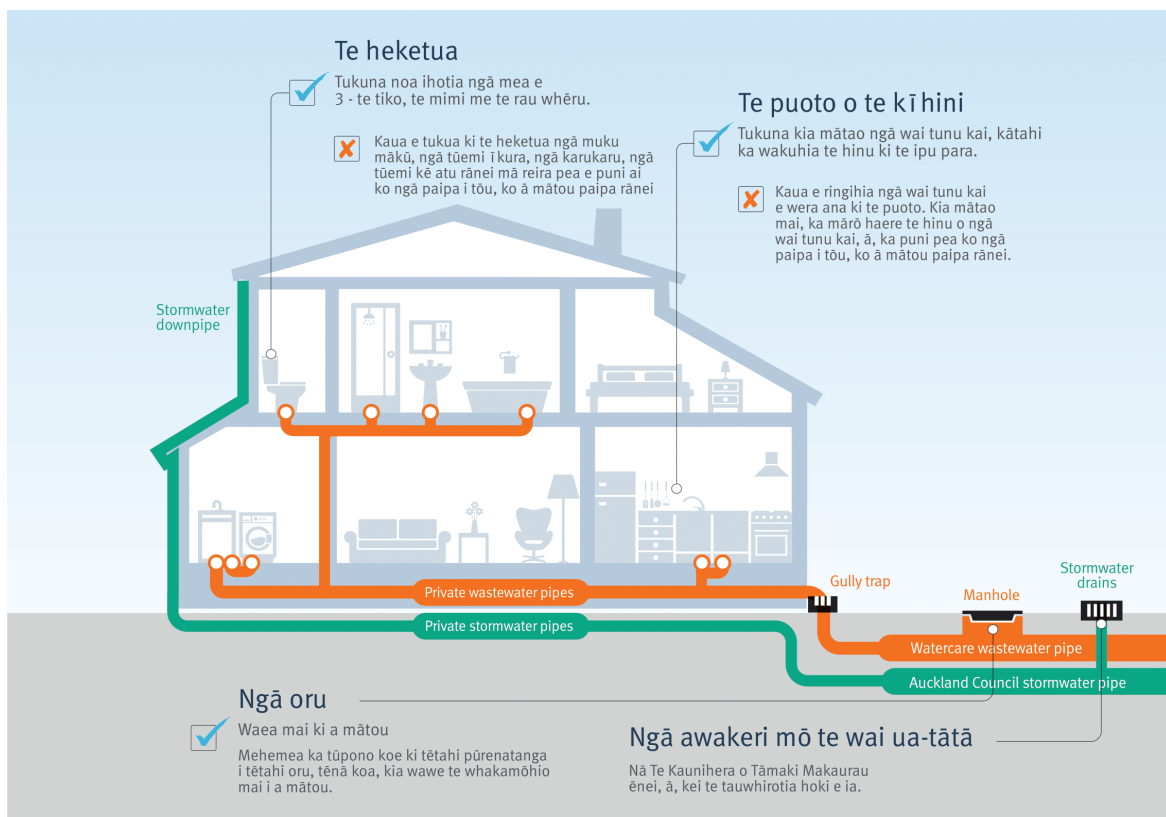
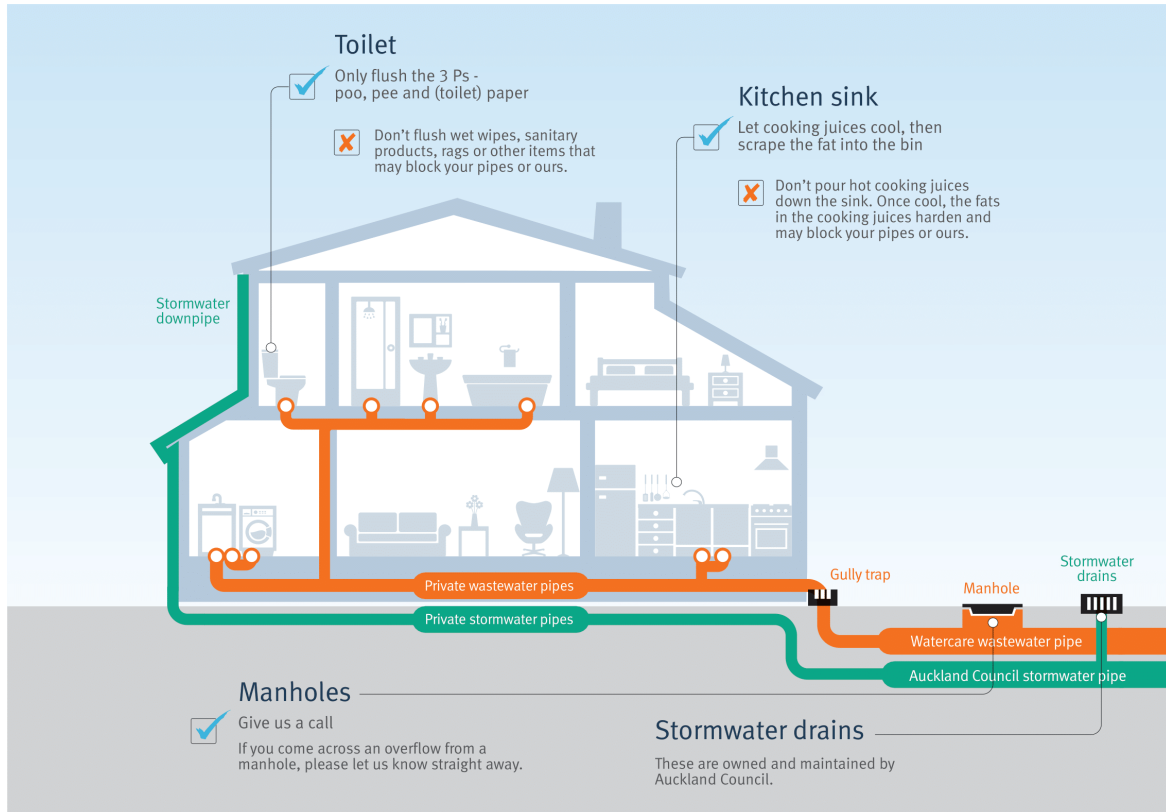
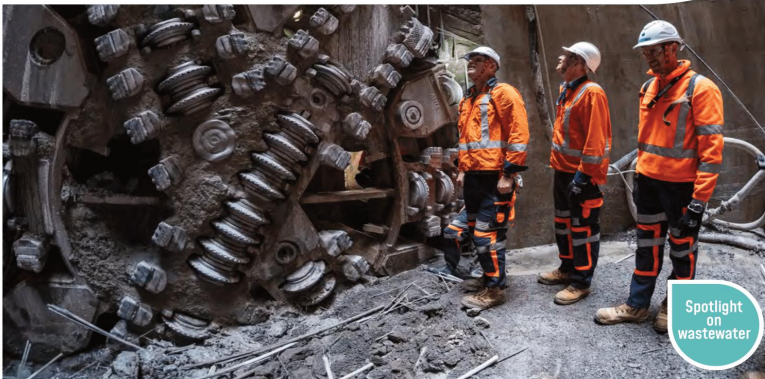


Figure 8-6 Educational poster on reducing local wastewater overflows available to download from watercare's website in different languages

TAPPED IN

Bringing you news, updates and information from Watercare Winter 2024



Spotlight on wastewater

Our Central Interceptor's tunnel boring machine has passed the halfway point in her journey to central Auckland.

Investing in our networks

Investing in our water and wastewater networks is essential to keep Tāmaki Makaurau Auckland's taps flowing and our environment clean and healthy.

The investment also allows our city to grow so more people can call it home, and our businesses can flourish. In the financial year to 30 June, we spent more than \$1 billion on our capital programme. And this financial year, we expect to invest a further \$1.2 billion.

We'll be delivering projects across Auckland, ranging from pipe renewals in suburban streets, to massive conveyance tunnels and upgrades at our water and wastewater treatment plants. We will pay for these projects using the money we receive from you in your water and wastewater bills, infrastructure growth charges, and by borrowing.

Over the next 10 years, we expect to spend \$13.8 billion, which works out at almost \$3.8 million a day, every day, for the next decade.

With our colossal Central Interceptor wastewater nudging closer to the finish line, our next mega project will be the western water supply scheme, which includes a new Huia Water Treatment Plant and two new treated water storage reservoirs, several new major watermains, and upgrades to critical water pump stations and the raw water network. This will benefit most of Auckland by making the metropolitan water network more resilient.

In this newsletter, we shine a spotlight on wastewater. Find out the latest on our Central Interceptor project as well as work underway in your area to improve the wastewater network.



TAPPED IN

Central Interceptor: tunnel extension approved

We're extending the Central Interceptor wastewater tunnel by more than one kilometre from Grey Lynn to Point Erin in Herne Bay. This extension will help reduce wet weather overflows and significantly improve water quality in Herne Bay and St Marys Bay waterways and beaches.

The tunnel extension will ensure combined wastewater and stormwater flows are captured and taken away to Māngere Wastewater Treatment Plant for processing instead of overflowing into waterways and beaches during heavy rain. This is great news for residents who will benefit from a cleaner environment.

The Central Interceptor tunnel runs from Māngere Wastewater Treatment Plant across the Manukau Harbour to central Auckland, with two new link sewers collecting flows from west Auckland. It is the largest wastewater infrastructure project in New Zealand's history and will significantly reduce wet weather overflows into other waterways such as Meola Creek, Oakley Creek and Motions Creek as well as the Waitematā Harbour. Overall, the project will improve resiliency within the wastewater network and allow for future population growth in Tāmaki Makaurau.

The Central Interceptor project is on track for completion in late 2026. By then, it will be fully operational up to Grey Lynn. The Point Erin extension will be commissioned in 2028 when it connects to an upgraded Herne Bay wastewater pipe.

Visit watercare.co.nz or scan the QR code for more information.



DID YOU KNOW?
Our main tunnel boring machine, Hiwa-i-te-Rangi, has travelled more than 11 kilometres since leaving Māngere in August 2021. It is approximately 60m under Mt Albert, heading towards Western Springs.

20.5km of tunnelling in total
Over 60% completed so far
17 sites in central Auckland

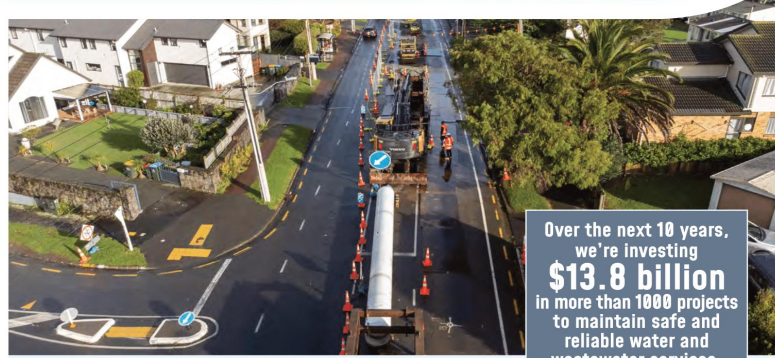
- Central Interceptor route
- Construction site
- Tunnel completed
- Southern section completed, due to go live end of 2024

Our Māngere site includes a new pump station that will send flows from the main tunnel to the treatment plant for processing.

Figure 8-7 Excerpt from the 'Winter 2024 Tapped In' newsletter

TAPPED IN

Bringing you news, updates and information from Watercare Autumn 2025



Pictured above: Work taking place on Donovan Street in Blockhouse Bay last year. This is part of the Hula 1 Watermain replacement project which will soon be completed.

Over the next 10 years, we're investing **\$13.8 billion** in more than **1000** projects to maintain safe and reliable water and wastewater services.

Service reliability at heart of new 10-year plan

Every day, people and businesses in Auckland count on us to supply around 440 million litres of safe drinking water and to carefully treat their wastewater. We take this responsibility seriously and that's why we've placed service reliability at the heart of our new 10-year Business Plan.

The plan outlines how we'll invest \$13.8 billion in more than 1000 projects all over Auckland, from Waiuku to Wellsford. To put that in perspective, we'll be spending an average of \$3.8 million every day until 2034.

About half of the money will go towards replacing or upgrading existing infrastructure, so you continue to receive services you can count on, and the other half will be spent on expanding our networks to support population growth.

Together, the investment will help to keep our treasured environment healthy by reducing the number of wastewater overflows onto land and into waterways.

We're able to deliver this massive investment for Auckland largely thanks to Local Water Done Well legislation, which will see us become financially independent from Auckland Council on 1 July.

This enables us to borrow more to fund our infrastructure programme, ensuring we can carry out necessary construction work while maintaining a smoother price path for our customers.

Much of our infrastructure, including treatment plants and large pipes, is built to last about 100 years. So being able to borrow more over a longer period allows us to spread the costs of this new infrastructure more fairly between current and future customers.

This year, our water and wastewater service charges will increase by 7.2 per cent. For a household with average water use, that's about \$7 more each month.

We look after dozens of treatment plants, hundreds of pump stations and thousands of kilometres of pipes, so it's likely we will be working in every community in the next 10 years.

In this edition of *Tapped In*, learn more about the benefits of the major water and wastewater projects that we'll deliver for Auckland in the next decade, and how we'll fund this investment.



Figure 8-8 Excerpt from the 'Autumn 2025 Tapped In' newsletter

TAPPED IN Autumn 2025

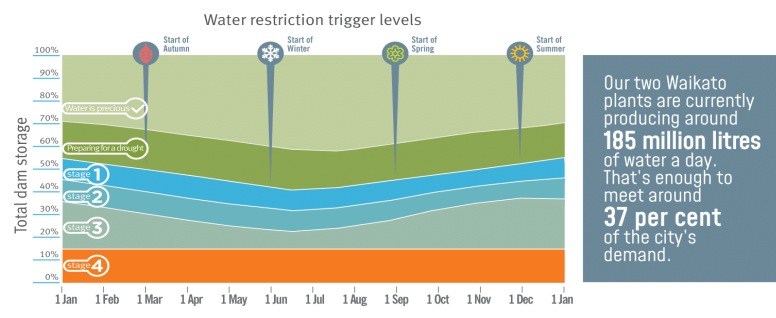
Please be mindful of your water use this autumn

Off the back of a very dry summer, we're encouraging our customers to use water wisely this autumn and to stay tuned for water supply updates from us.

In March, we activated our drought management plan when the total volume of water stored in our dams dipped below 66.5 per cent. You can find out the status of our water supply – including if water restrictions are in place – by visiting watercare.co.nz. We also share important updates via the media.

- Please help preserve the water in our dams by:
- Limiting your outdoor water use: a hose uses around 12 litres a minute!
 - Keeping your shower short – four minutes or less is ideal.
 - Checking your home for leaks.

Visit watercare.co.nz or scan the QR codes for more water-saving tips and to check the latest dam levels.



Help us shape our water future

We're excited to be able to share our 10-year plan, but as Auckland's water service provider, we also need to look further into the future – 70 years and beyond – to make sure our services are safe, reliable and affordable for generations to come.

As Auckland grows, so do our water challenges. We'll need to find new, sustainable water sources, work out the best long-term approach for managing wastewater to protect the environment, and find a solution for dealing with biosolids – a byproduct of the wastewater treatment process.

You can influence our long-term servicing strategy by considering some of these challenges and letting us know what's important to you and your whānau.

Engagement is open from April to May 2025. Join us at one of our community events across Auckland to learn more and share your thoughts.

Can't make it in person? Not a problem, you can help shape the water future by completing our online survey – you'll go into the draw to win one of three Prezzy Cards. See our website for terms and conditions.

To find out more, including when and where we'll be coming to your part of Auckland, scan the QR code or search 'Metropolitan Servicing Strategy' on watercare.co.nz.



Scan the QR code to learn more.

KEEP IN TOUCH

To get in touch, please email our communications team at communications@watercare.co.nz. You can learn more about what we do at watercare.co.nz



9 TARGETED MONITORING PROGRAMME

9.1 Background and programme evolution

The Targeted Monitoring Programme (TMP) has undergone several stages of development since its inception. As outlined in last year's NDC report, the original TMP framework was developed by NIWA in 2015 and approved by Auckland Council in June 2015. A cost-optimised revision prepared in 2016 was subsequently approved in November 2016. Initial monitoring focused on water quality and ecological sampling across three catchments but produced inconclusive outcomes due to limited temporal coverage and inconsistent event capture.

To strengthen the evidence base, Watercare trialled the use of continuous online water-quality probes and commissioned independent ecological assessments from AECOM and Tonkin & Taylor (T+T). In 2024, Watercare prepared the TMP Pilot Plan (Phase 1) to formalise the risk-based design, site-selection logic, and monitoring parameters for a one-year pilot study across freshwater and marine receiving environments (Appendix F) This plan provided the methodological foundation for the full TMP pilot implemented during 2025 (Phase 2). The results of that pilot now support refinement of the full, multi-year NDC monitoring programme required under Conditions 58–61.

9.2 Overview of the Pilot

The 2024 TMP Pilot Plan set out a structured approach centred on high- and very-high-risk EOPs. Key design principles included:

- Selecting sites using ecological risk scores, overflow characteristics, accessibility, and alignment with existing continuous and SOE monitoring.
- Applying routine, seasonally representative monitoring rather than event-based sampling.
- Maximising the number of biological and physicochemical indicators in the first year to identify those that respond most reliably to wastewater overflows.
- Integrating continuous high-frequency monitoring to support detection of short-duration or episodic effects.
- Ensuring consistency with Auckland Council SOE methodologies wherever possible.

The pilot covered small waterways (including continuous water-quality monitoring at five EOPs), estuaries, basins and beaches. Detailed methods for each receiving environment type are provided in the pilot plan (Appendix F-D). Site selection and ecological risk classifications are summarised in Tables 1 and 2 of the TMP Pilot Plan Appendix F-D.

9.3 Freshwater component- small waterways

The freshwater pilot assessed upstream and downstream effects at six EOP sites during summer and winter 2025. Monitoring covered habitat condition, water quality, continuous water quality sensors, sediment chemistry, macroinvertebrates, diatoms and periphyton.

The waterways showed generally poor ecological health, dominated by pollution-tolerant taxa, with all MCI/QMCI values below the national bottom line. Dissolved oxygen was the only in-situ parameter consistently showing upstream–downstream differences, while laboratory analyses identified significant changes in suspended solids and dissolved reactive phosphorus. Nutrients, particularly ammoniacal-N and DRP, were correlated with shifts in biological indices.

Sediment metals—especially nickel and zinc—exceeded guideline values at several sites, though upstream–downstream patterns were variable. Diatoms were the most responsive biological indicator, showing some differences between upstream and downstream conditions and correlations with nutrients, DO and metals. Cotton strip assays were highly variable and not considered reliable for long-term use.

Two sites—EOP 281 and EOP 588—showed the most pronounced ecological signatures across biological indicators and water-quality patterns. The freshwater pilot has confirmed that diatoms, nutrients, DO, and continuous water-quality metrics provide the strongest relationship with potential overflow-related events, although this is generally muted by other catchment stressors.

9.3.1 Continuous water-quality monitoring

Ten continuous water-quality sensors were deployed upstream and downstream of five EOPs, providing high-resolution data on conductivity, pH, dissolved oxygen, turbidity, and temperature. The time-series data showed clear first-flush dilution signals during rainfall, alongside episodic patterns consistent with wastewater influence (EC increases paired with DO depressions at downstream sites).

An automated event-detection and ecological-risk framework was applied to the data. EOP 281 and EOP 588 were consistently ranked as high-risk, aligning with independent biological assessments. EOP 734 and EOP 6 displayed stable water quality with no qualifying discharge events, while EOP 831 recorded turbidity-based triggers likely attributable to catchment inputs rather than wastewater.

This component demonstrated strong integration potential between continuous data and ecological interpretation. The framework provides rapid, scalable, and cost-efficient detection of discharge events and supports prioritisation of mitigation.

9.4 Marine component- estuaries, basins and beaches

Six coastal receiving environments were monitored in summer and winter 2025, covering estuarine mudflats, beaches and sheltered basins. Sampling included benthic macrofauna, redox potential discontinuity (RPD), sediment grain size, nutrients, heavy metals, fluorescent whitening agents (FWAs), and pharmaceuticals and personal care products (PPCPs).

Clear spatial patterns were observed. Motions Creek and Coxs Bay showed elevated concentrations of metals (copper, zinc, cadmium, chromium) and higher levels of FWAs and PPCPs, indicating consistent wastewater and stormwater influence. Waterview exhibited moderate levels of contamination. Judges Bay displayed elevated lead and mercury, while Hobson Bay had the lowest overall contaminant load.

Benthic macrofauna diversity was highest at Curran Street and Judges Bay and lowest at Motions Creek and Waterview. Seasonal variation was site-specific rather than uniform, with RPD depths consistently shallower in winter across most sites, indicating reduced sediment oxygenation.

Overall, the coastal pilot confirmed that the selected sites represent an appropriate gradient of ecological condition and wastewater exposure. The combined use of macrofauna, sediment chemistry, FWAs and PPCPs provides a robust basis for ongoing monitoring.

9.5 Next steps

The TMP has confirmed which indicators at high-risk sites provide the most reliable assessment of potential overflow-related effects across freshwater and coastal environments. These findings now give Watercare a clear basis to refine the TMP into a long-term monitoring framework as per the consent.

The next step is to use the pilot results to prepare a revised TMP, streamlined around the most responsive parameters and priority sites. This revised plan will be submitted to Auckland Council for certification, as required under the NDC, and will form the basis of the multi-year monitoring programme going forward.

10 SUMMARY AND CONCLUSIONS

10.1 Network performance

The 2024–25 reporting year shows a modest but meaningful improvement in the wastewater network’s performance relative to recent baselines, while also highlighting persistent spatial and categorical risks that require targeted intervention. Aggregate counts for 2024–25 indicate total DWOs of 3,637 (a 2.2% reduction versus 2023–24 and ~10.6% below the five-year mean) and total WWOs of 1,049 (unchanged versus 2023–24 and ~23.8% below the five-year mean). Highest-severity Category-3 Level-3+ events declined to 63 (a small year-on-year reduction and materially lower than the five-year average), while the combined Type-1 and Type-3 aggregate fell to 4,686, reflecting an overall downwards movement from historical peaks. Table 10-1 provides a summary of overflow counts for the past five-years.

Table 10-1 Summary of total dry and WWOs over the past 5 reporting periods

Type		2020-21	2021-22	2022-23	2023-24	2024-25
DWO	Type 1	18	57	51	27	6
	Type 2 (alarms only)	473	557	803	577	574
	Type 3	4,957	4,618	3,274	3,692	3,631
	Type 3 L3+	117	199	80	60	57
WWO	Type 1	102	254	777	213	94
	Type 2 (alarms only)	326	328	642	343	410
	Type 3	519	801	2,326	836	955
	Type 3 L3+	9	11	49	4	6
Overall	Total DWOs (without Type 2 alarms)	4,975	4,675	3,325	3,719	3,637
	Total WWOs (without Type 2 alarms)	621	1,055	3,106	1,049	1,049
	Total T3 L3+	126	210	132	64	63
	Total T1 & T3 overflows	5,596	5,730	6,431	4,768	4,686

10.2 Spatial concentration and operational risk

Overflows remain concentrated in a small number of catchments. Dry-weather Type-2 alarms were most prevalent in Hobson Bay, Western Isthmus, Cox’s Bay and Central Auckland. Type-3 DWOs were concentrated in Upper Tamaki River, Henderson Creek, Western Isthmus, Hobson Bay, East Coast Bays and Whau River. Severe wet-weather (Type-1 WWO) activity was highest in Upper Tamaki River, East Coast Bays and Shoal Bay while Hobson Bay, Henderson Creek, Western Isthmus and Cox’s Bay recorded the most Type-2 WWO alarms. East Coast Bays, Upper Tamaki River, Western Isthmus, Henderson Creek and Hobson Bay experienced the highest Type-3 WWOs. The repeated identification of Western Isthmus, Hobson Bay and Upper Tamaki River across categories marks these catchments as persistent high priorities for remedial action. Trend analysis of historic overflow data indicates that roots and fats continued to be the leading causes of Type-3 DWOs, while blockages - principally roots, fats and rags together with structural failures such as broken pipes, remained the primary drivers of Type-3 WWOs.

10.3 Network improvement projects and public information

Watercare has advanced a broad programme of engineering and operational improvements to address these pressures. The inflow and infiltration programme expanded targeted investigations (smoke testing, CCTV, flow monitoring) and accelerated deployment of smart sensors and AI-enabled analytics to detect and prioritise inflow sources, supported by joint work with Auckland Council's Healthy Waters on separation and joint projects such as the Central Interceptor extension to Point Erin and the Herne Bay collector. These initiatives are expected to reduce stormwater-driven inflows and overflow frequency at priority sites over the coming years.

Major network improvement projects progressed across key catchments, including staged delivery of the Central Interceptor and Western Isthmus Water Quality Improvement Programme, Northern Interceptor works in Henderson Creek, capacity upgrades in the Upper Tāmaki area, and targeted relief schemes in East Coast Bays. In parallel, several new pump stations and trunk assets were commissioned to service growth areas and relieve local constraints (e.g. East Coast Bays Link Sewer, Warkworth–Snells transfer, new pump stations in Lower Tāmaki River, Puhinui, Pahurehure Inlet, Upper Tāmaki River and Warkworth), strengthening capacity in both growth and high-risk catchments.

Public information and engagement activities have also been strengthened. Safeswim continues to provide real-time public health advice on beach water quality, supported by manual overrides and social media updates. Education and engagement have been broadened through the Tapped In school and community programme, targeted campaigns on correct wastewater use, new maintenance vehicle signage, extensive consultation on the Metropolitan Servicing Strategy, and a refreshed website and self-service portal (including additional language support) to improve access to overflow and network information.

10.4 Targeted Monitoring Programme

The first full year of the Targeted Monitoring Programme (TMP) pilot has now been completed across freshwater and coastal receiving environments, supported by long-term and high-frequency continuous monitoring. The pilot has identified the indicators and locations that are potentially most diagnostic of overflow-related effects and confirmed strong alignment between TMP sites and the highest-risk NDC catchments. The next step is to use these findings to refine the monitoring design and submit a revised TMP to Auckland Council for certification under Conditions 58–61, with site selection focused on the poorest-performing catchments identified in this report.

10.5 Immediate priorities

By combining targeted diagnostics, expanded telemetry and focused delivery of renewals and capacity improvement projects, Watercare can convert the present relative improvements into sustained reductions in overflow frequency and severity and demonstrate improved environmental and consent performance in subsequent reporting years.

Appendix A. Definitions and Overflow Incident Assessment

Table of definitions

Auckland	The geographical area defined in section 4(1) of the Local Government (Auckland Council) Act 2009
Best Practicable Option (BPO)	<p>In relation to a discharge of a contaminant or an emission of noise, means the best method for preventing or minimising the adverse effects on the environment having regard, among other things, to—</p> <ul style="list-style-type: none"> a) the nature of the discharge or emission and the sensitivity of the receiving environment to adverse effects; and b) the financial implications, and the effects on the environment, of that option when compared with other options; and c) the current state of technical knowledge and the likelihood that the option can be successfully applied <p>(Resource Management Act 1991)</p>
Class 1 Recreational Receiving Environment	<p>An area where contact recreation is known to occur (i.e. located on a known bathing beach). If the beach is a SafeSwim site this is deemed to be an indicator of</p> <ul style="list-style-type: none"> a) high use; and/or b) a known shellfish gathering site; and/or c) aquaculture areas
Computer Modelling	The formal simulation of the wastewater network using a mathematical model to predict network performance from a set of parameters and conditions, using a combination of hydrologic (such as MOUSE-ROI) and hydraulic (such as MOUSE) programmes.
Consultation	Engagement in a spirit of good will and open-mindedness to ensure that the Consent Holder is fully informed of the other parties' concerns and issues when preparing and reviewing the Wastewater Network Strategy
Controlled overflow	A discharge from the network that occurs from an engineered overflow point, either during times of dry or wet weather flows
Dry Weather Flow	<p>The flow in the wastewater network that would occur during a normal day in a dry weather period, including wastewater, trade waste and groundwater infiltration.</p> <p>Groundwater is defined as any natural water, including salt water, which has not become mixed with wastewater or trade waste</p>
Dry Weather Overflow (DWO)	An overflow that occurs during dry weather flow from any part of the network, usually as a result of blockage, breakage, mechanical or power failure at pump stations or storage facilities, system failure or the lack of hydraulic capacity in the network during periods of dry weather flow
Engineered Overflow Point	A location where a discharge from an engineered overflow structure occurs
Existing Network	The separated and combined wastewater network owned and operated by Watercare Services Limited (as the Auckland water organisation) at the time the Auckland Wastewater Network Comprehensive Discharge Permit commences.

	For avoidance of doubt, any additional or New Engineered Overflow Points become part of the Existing Network after the engineered overflow structure has been built
Existing Urban Area	Any area within the metropolitan urban limits, and; Any area included within the urban zones (under an operative district plan) of a rural or coastal settlement; at the time the Auckland Wastewater Network Comprehensive Discharge Permit commences
Future Network	The <i>Network</i> , including Engineered Overflow Points and other Network assets, in currently un-serviced areas within any <i>Existing Urban Area</i> ; or to be constructed within any <i>Indicative Future Urban Area</i> after the area has been given an urban zoning
Indicative Future Urban Area	Any area shown in the maps in Attachment 1 as Indicative Future Urban Area
Manager	The designated person authorised by the Auckland Council, or their delegate.
Metropolitan Urban Limit	The boundary between rural area and urban area delineated on the Map Series 1, Sheets 1- 20 of the Auckland Council Regional Policy Statement (July 1999) and subsequent amendments
Network	The wastewater network owned and operated by Watercare Services Limited (as the Auckland water organisation), including all assets necessary for the operation of the network, including but not limited to pipelines, pipe bridges, siphons, rising mains, overflow structures, storage facilities and pump stations The Network includes the transmission system (the larger pipes that convey wastewater collected by local network pipes to the wastewater treatment plant.) and the local system (the smaller pipes that convey wastewater from individual properties or housing or commercial developments to the transmission network)
New Engineered Overflow Point	An Engineered Overflow Point that is an addition to the Network after the Auckland Wastewater Network Comprehensive Discharge Permit commences
Normal Operation (of the Network)	Excludes events which are due to circumstances beyond the Consent Holder's control and which cannot be provided against, and are defined as follows: (a) Chokes. Network Failure, a force majeure (including vandalism and for terrorism); (b) Heavy rain which occurs at the same time maintenance or construction or re-construction of the Network and is beyond the diversion capacity.
Overflow or Wastewater Overflow	A discharge from the Network that occurs in either a controlled manner from an Engineered Overflow Point or in an uncontrolled manner from any other point in the network, either during times of Dry Weather Flow or Wet Weather Flow
Overflow Point	An existing or future physical discharge location where the discharge is from an engineered overflow structure in the wastewater network.
Repeat Dry Weather Overflow	A Dry Weather Overflow that occurs more than once at the same location within a 12 month period

Replacement Engineered Overflow Point	A like-for-like replacement (including a minor upgrade of the Engineered Overflow Structure) of the existing Engineered Overflow Point.
Reported Wastewater Overflow	An Overflow that is reported by any person to the Watercare Control Room or that has been identified as having occurred by Watercare's telemetry system.
SEA-M1	Significant Ecological Area – Marine 1, as defined in the Proposed Auckland Unitary Plan notified 30 September 2013. An area which, due to its physical form, scale or inherent values, is considered to be the most vulnerable to any adverse effects of inappropriate subdivision, use and development.
Similar Location	A location within a radius of 500 metres of the original location provided that it is within the same receiving environment.
Type 1 Overflow Points	Engineered structures associated with a WWPS
Type 2 Overflow Points	Engineered structures that provide a relief point on the network, including combined sewer overflows (CSOs)
Type 3 Overflows Points	Uncontrolled overflow points that usually discharge from a manhole as the result of surcharging during wet weather.
Uncontrolled overflow	A discharge from any point in the network, either during times of dry or wet weather flows
Wastewater	Liquid (and liquids containing solids) waste from domestic, industrial, institutional or commercial premises including (but not limited to) toilet wastes, sillage, trade wastes and gross solids.
Wastewater Network	A system of pipes, open channels and associated ancillary structures for the purpose of conveying, diverting, storing, treating or discharging wastewater.
Wastewater Network Strategy	The document that describes network improvement planning and prioritisation of network improvements for a period of six years
Wastewater Overflow or Overflow	A discharge from the network that occurs in either a controlled manner from an engineered overflow point or in an uncontrolled manner from any other point in the network, either during times of dry weather flow or wet weather flow
Wet Weather Flow	The flow within a wastewater network that is greater than the dry weather flow, and which occurs as a result of rainfall (directly or indirectly) entering the Network
Wet Weather Overflow (WWO)	A wastewater overflow during times of wet weather flow
Wet Weather Overflow Event	One or more wet weather overflows that end(s) when all overflows have ceased discharging for more than 24 hours. Where the overflow stops and then recommences within 24 hours as a result of a single continuous or intermittent rainfall event, it is considered a single wet weather overflow event

Overflow incident level assessment

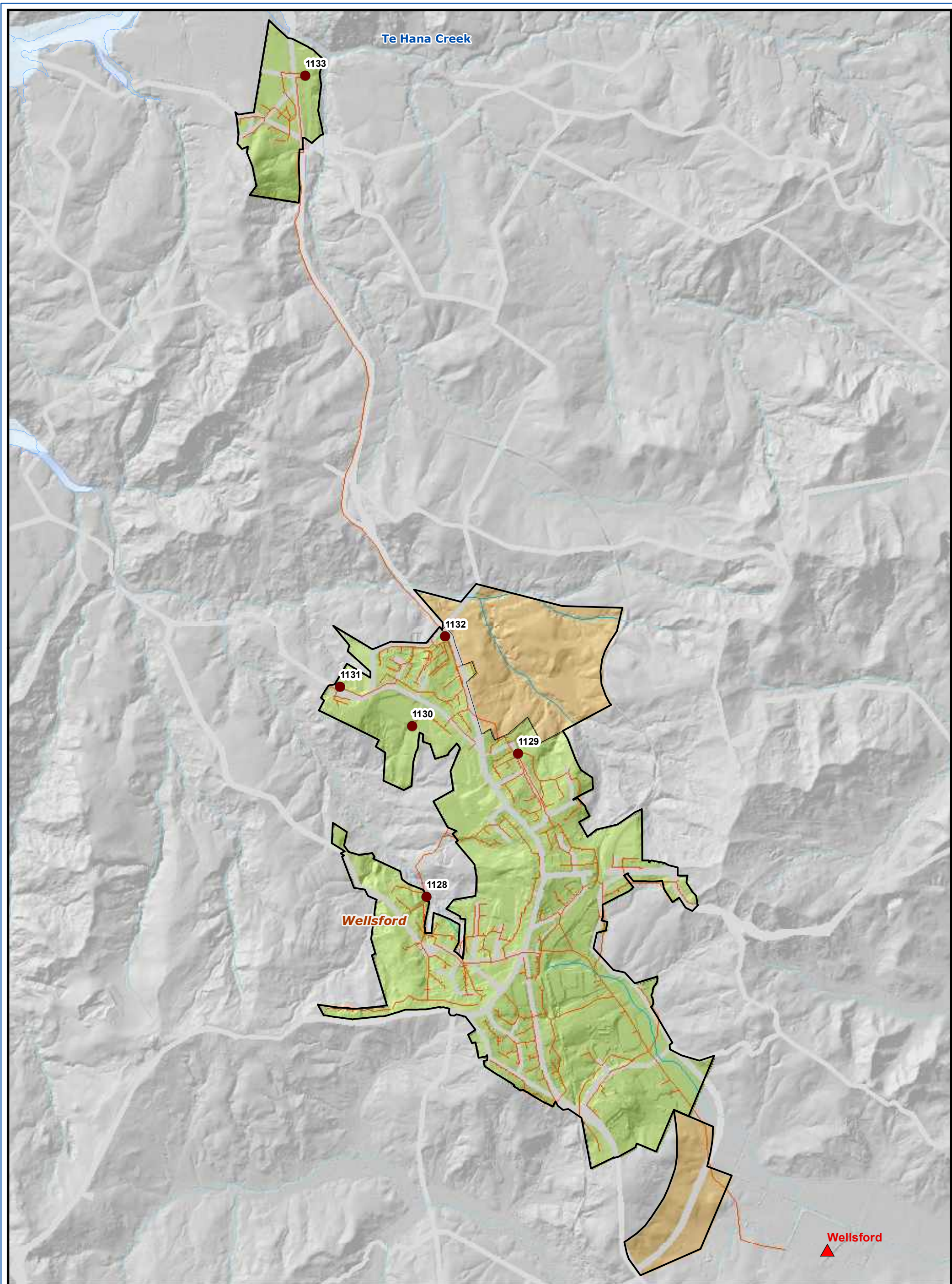
<p>Level 1 (Spill)</p>	<p>A Level 1 incident is capable of being managed as a matter of routine operations, resolved in a reasonable timeframe and where there is one or more of the following:</p> <ul style="list-style-type: none"> • ground containment • no discharge to a water course • contamination of less than 50 m² of adjacent ground • no property damage • public health risk limited to one household (private property) • no affect on in-stream ecology
<p>Level 2 (Minor Overflow)</p>	<p>A Level 2 incident is capable of being managed as a matter of routine operations, resolved in a reasonable timeframe and where there is one or more of the following:</p> <ul style="list-style-type: none"> • a discharge to an open water course or stormwater system and where natural dilution or containment minimises the impact on the water body • there is a low ammonia reading 100m downstream (<3ppm) • potential impact on fish/wildlife • contamination of greater than 50 m² of adjacent ground • minimal effect on in-stream ecology • property damage less than \$1000 • potential health risk limited to 2 households (private property); or • potential health risk limited to less than 10 people (sensitive public place)
<p>Level 3 (Significant Overflow)</p>	<p>A Level 3 incident requires escalation due to complexity, consequential effects and involvement of Communications and other specialist support where there is one or more of the following:</p> <ul style="list-style-type: none"> • short term of less than 4 hours of high volume/rate or an extended duration of less than 12 hours (from time of notification) of low volume/rate discharge to water body or sensitive land and where minimal dilution or containment is possible • there is obvious contamination of stream/water body or the stream is anoxic and or black • there is reasonably high ammonia readings (>3ppm) 100m downstream • potential impact on in-stream ecology • in-stream ecology is stressed • potential impact on shellfish gathering • potential impact on recreational bathing • property damage less than \$10,000 • health risk to more than 2 households (private property) • health risk to more than 10 people (sensitive public place) • prosecution is possible
<p>Level 4 (Major Overflow)</p>	<p>A Level 4 incident requires escalation due to complexity, consequential effects and involvement of Communications and other specialist support where there is:</p> <ul style="list-style-type: none"> • prolonged duration of greater than 4 hours of high volume/rate or greater than 12 hours (from time of notification) of low volume discharge to waterbody or sensitive land where no containment is possible • the stream is anoxic and/or black • definite impact on fish/wildlife, severely stressed or dead

	<ul style="list-style-type: none"> • definite impact on shellfish gathering • definite impact on recreational bathing • property damage greater than \$10,000 • definite health risk to more than 10 households (private property) • definite health risk to more than 100 people (sensitive public place) • prosecution is likely
<p>Level 5 (Catastrophe)</p>	<p>A Level 5 incident is a catastrophe or a Civil Defence State of Emergency. A Level 5 incident is coordinated by the Executive Management Team due to consequential effects, incident management complexity and multi-agency involvement and may be triggered by a Regional or National Civil Defence Emergency or a regional Water Services event of extreme nature</p>

Appendix B. Catchment Maps

B-1 Catchment maps detailing EOPs and sewer network

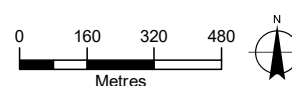
B-2 Proposed assets catchment maps detailing planned projects



LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

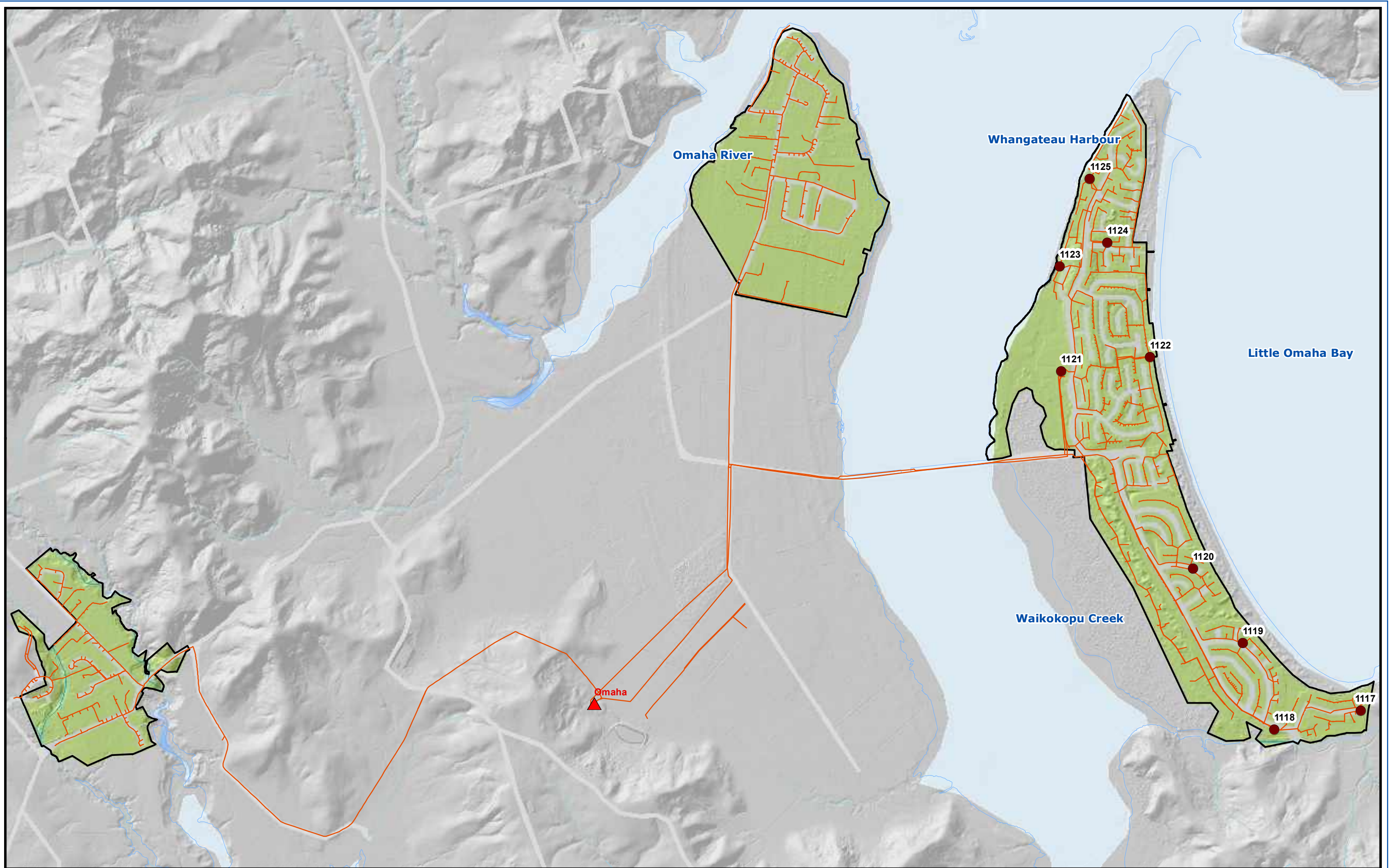
BASE MAP
Wellsford Catchment



SCALE: 1:18,000 @A3 CREATED BY: ASARIBALI
DATE: 08 August 2025 MAP NO: PR24035_2

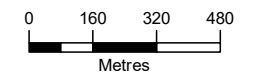


DISCLAIMER
Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.



- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

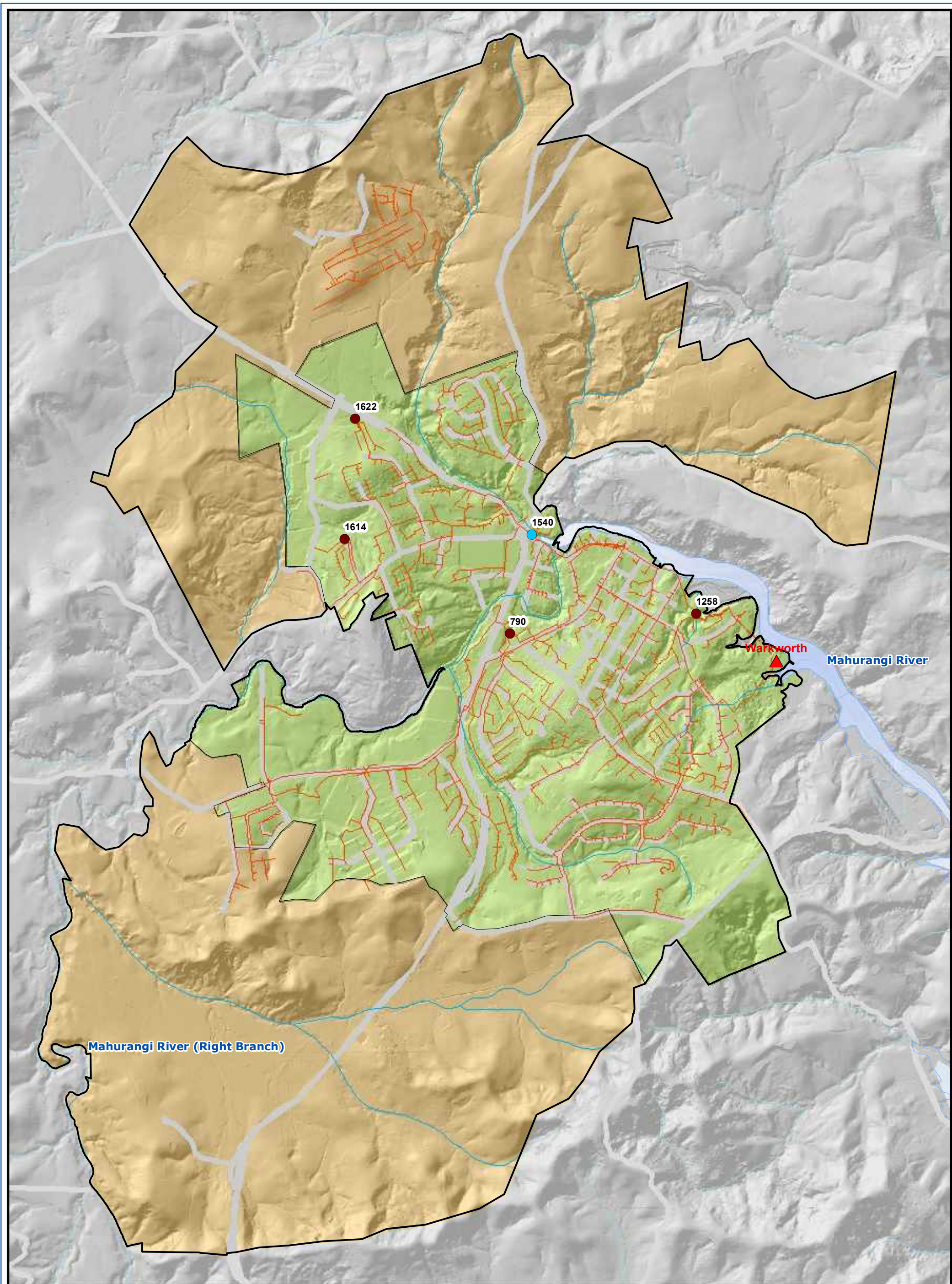
BASE MAP
Omaha Catchment



SCALE: 1:19,000 @A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24034_2

Watercare
 An Auckland Council Organisation

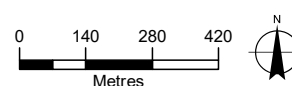
DISCLAIMER
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LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

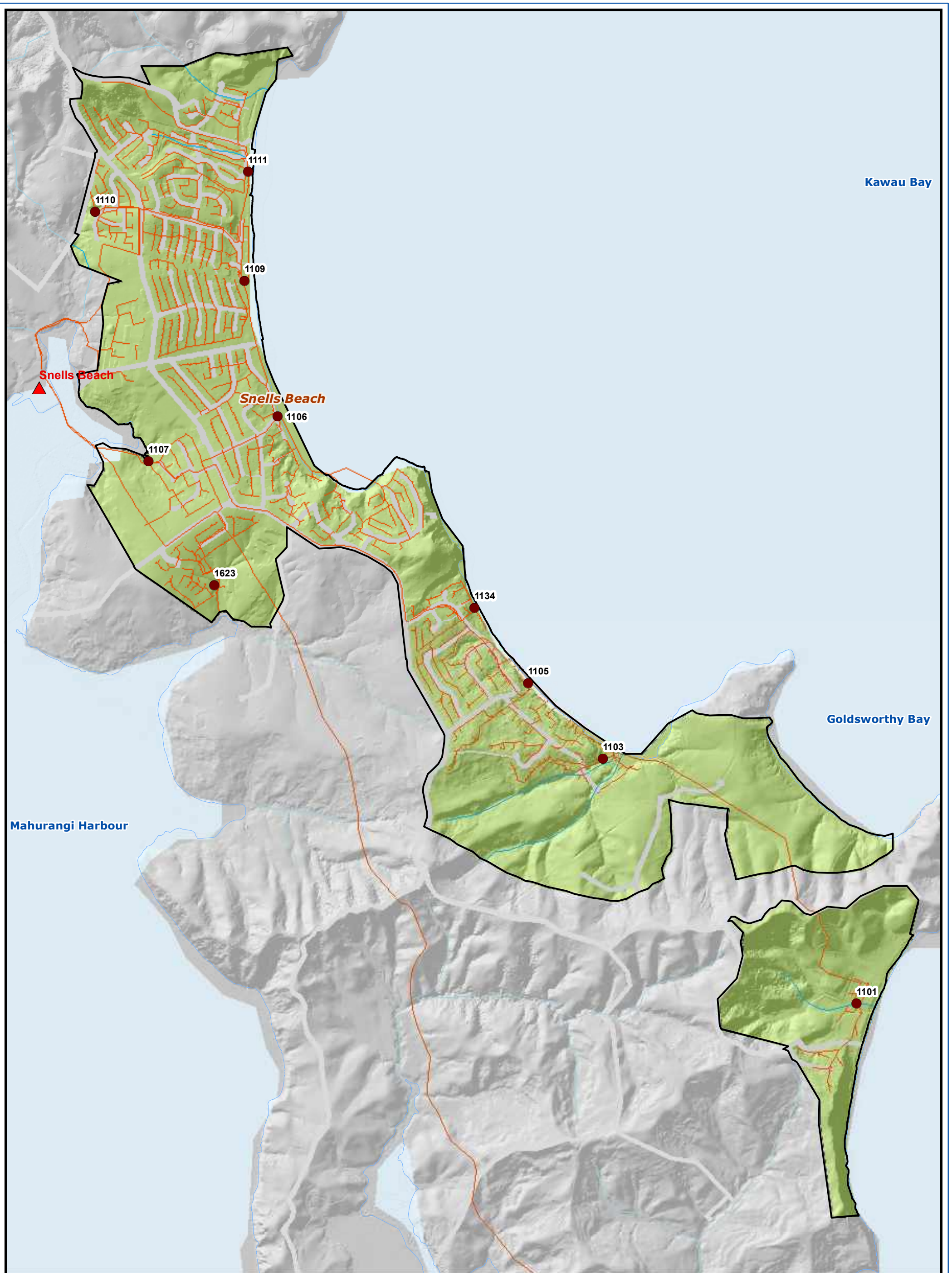
BASE MAP
Warkworth Catchment



SCALE: 1:16,000 @ A3 CREATED BY: ASARIBALI
DATE: 08 August 2025 MAP NO: PR24035_2



DISCLAIMER
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Kawau Bay

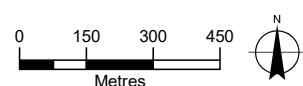
Goldsworthy Bay

Mahurangi Harbour

LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

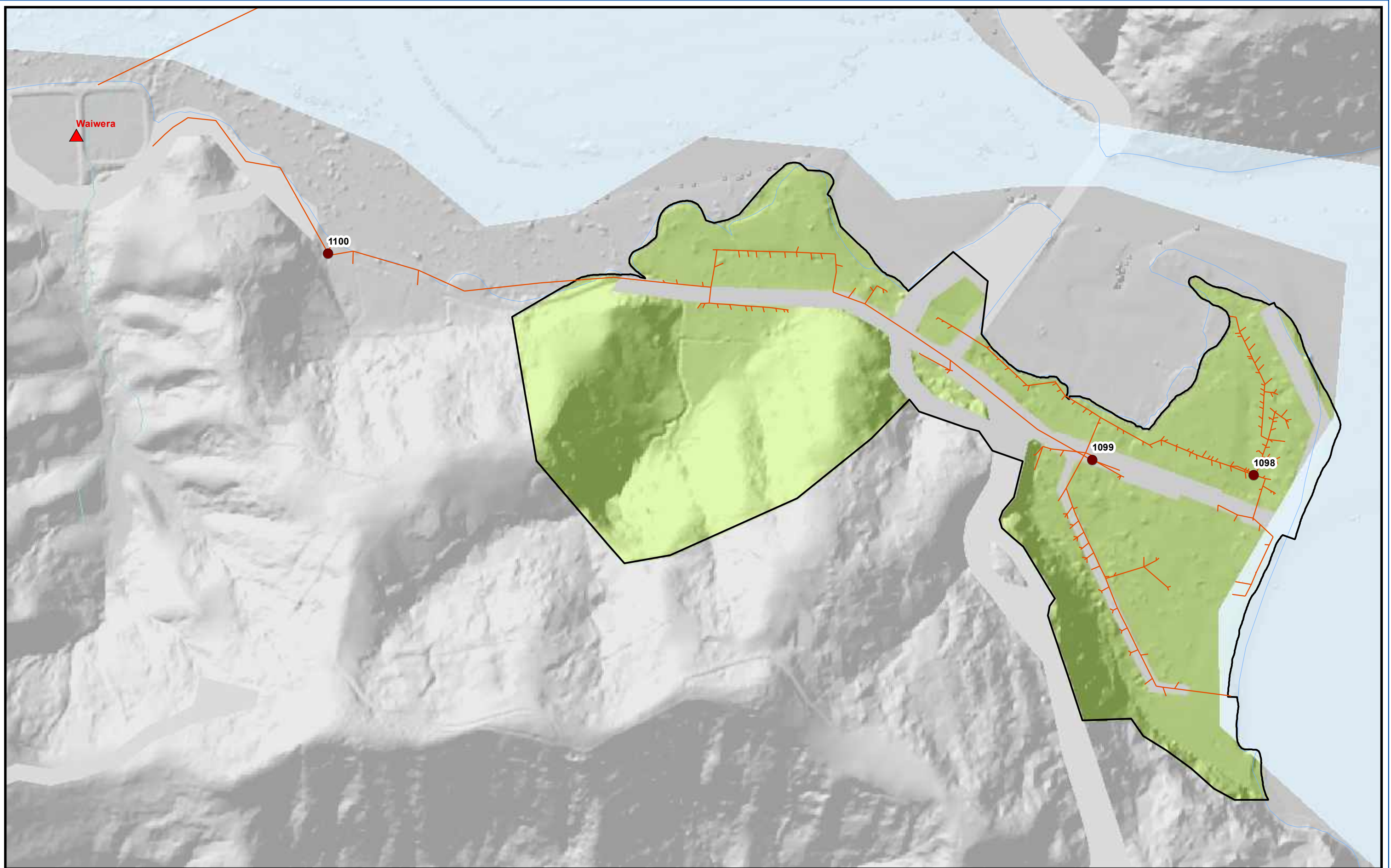
BASE MAP
Snells Beach-Algies Bay Catchment



SCALE: 1:17,000 @ A3 CREATED BY: ASARIBALI
DATE: 08 August 2025 MAP NO: PR24035_2

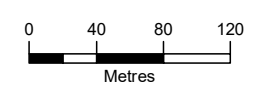


DISCLAIMER
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

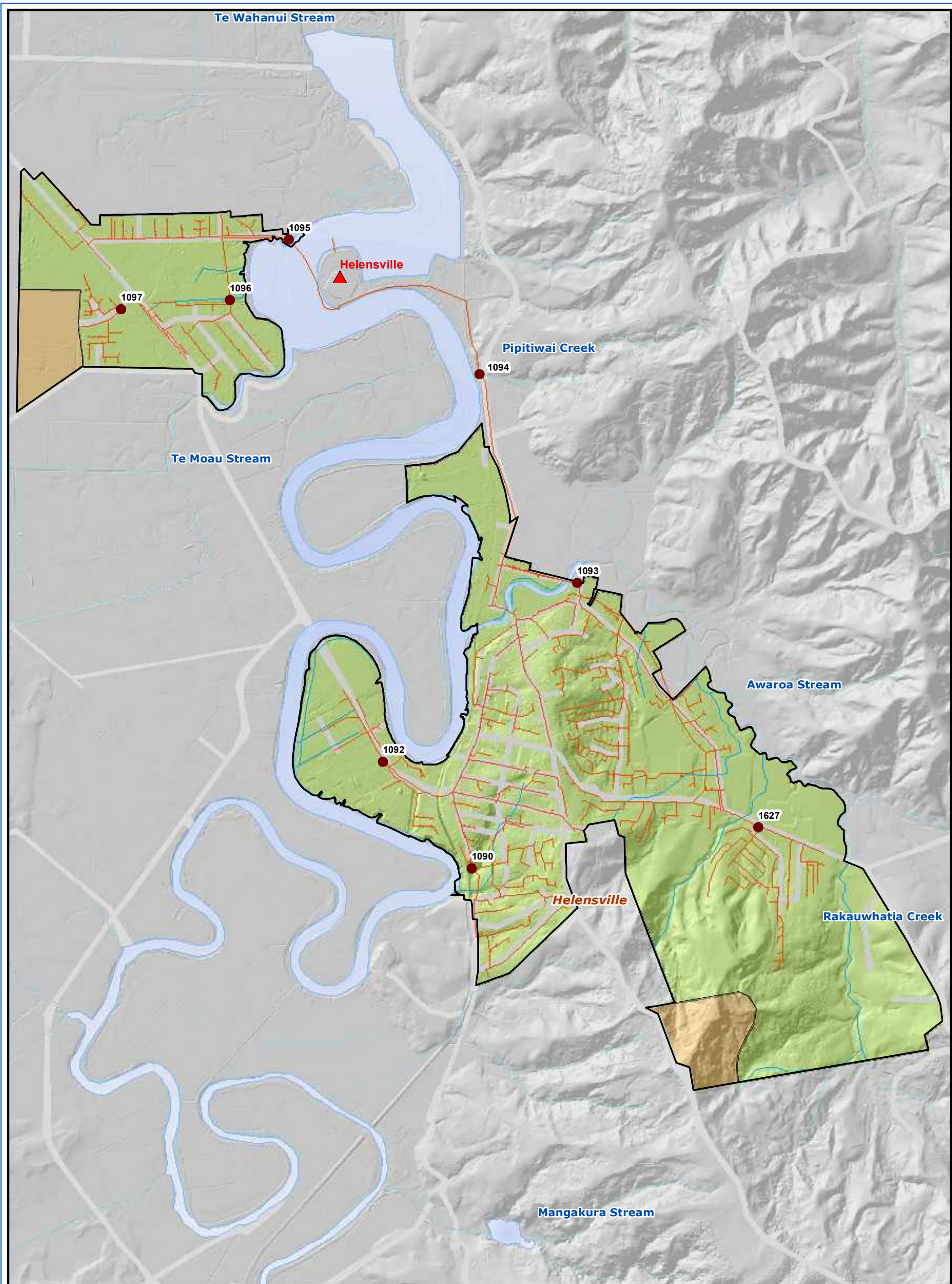
BASE MAP
Waiwera Catchment



SCALE: 1:4,500 @A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24034_2

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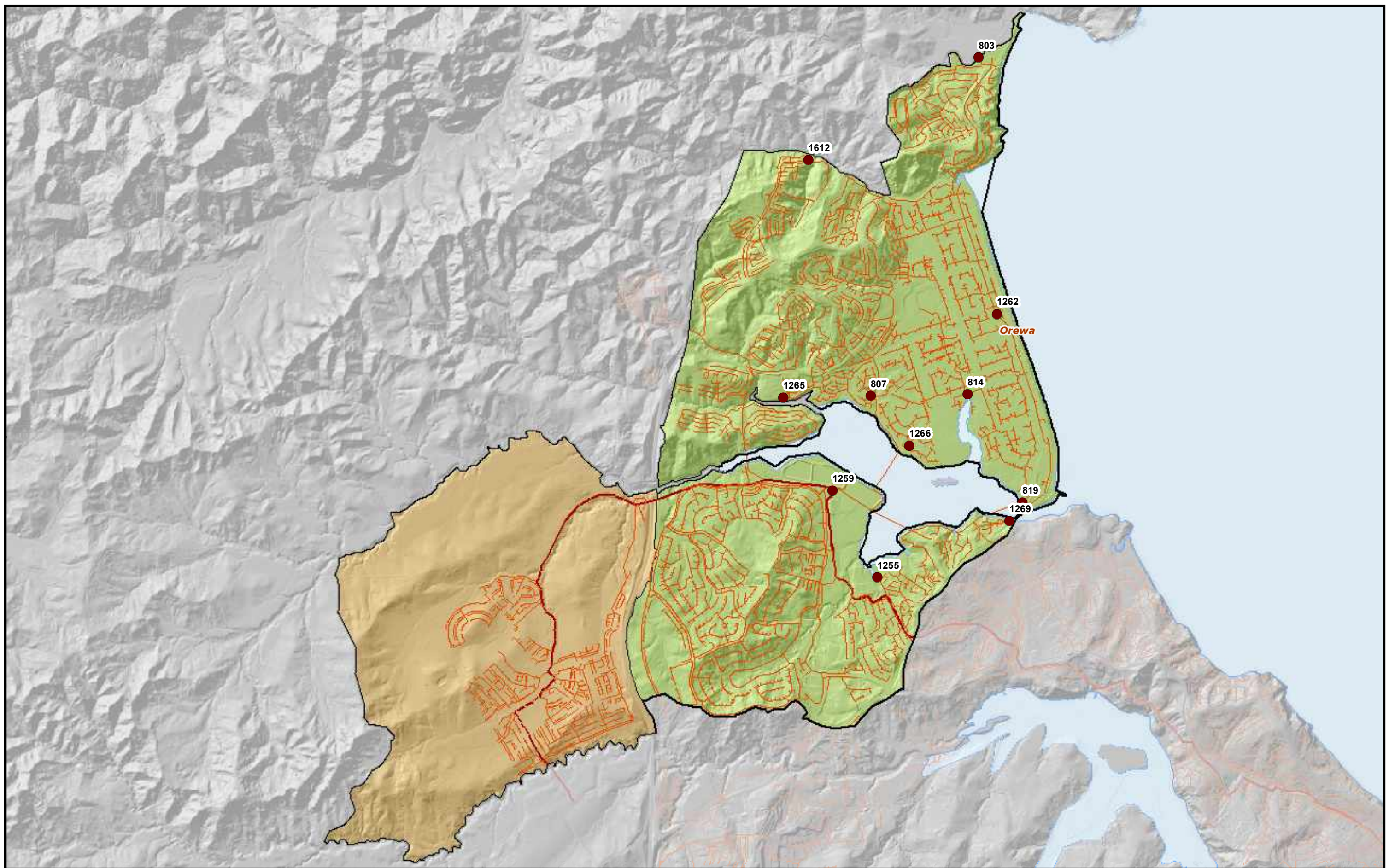
DISCLAIMER
 Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.



LEGEND		BASE MAP Helensville Catchment	0 140 280 420 Metres		SCALE: 1:15,500 @ A3 CREATED BY: ASARIBALI
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational — Local Network Pipe — Transmission Network Pipe 	<ul style="list-style-type: none"> ▲ Local Treatment Plant ▲ Transmission Treatment Plant Existing Urban Area (as defined in NDC) Indicative Future Urban Area (as defined in NDC) 				DATE: 08 August 2025 MAP NO: PR24035_2

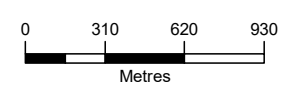
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DISCLAIMER
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Areas (as defined in NDC)

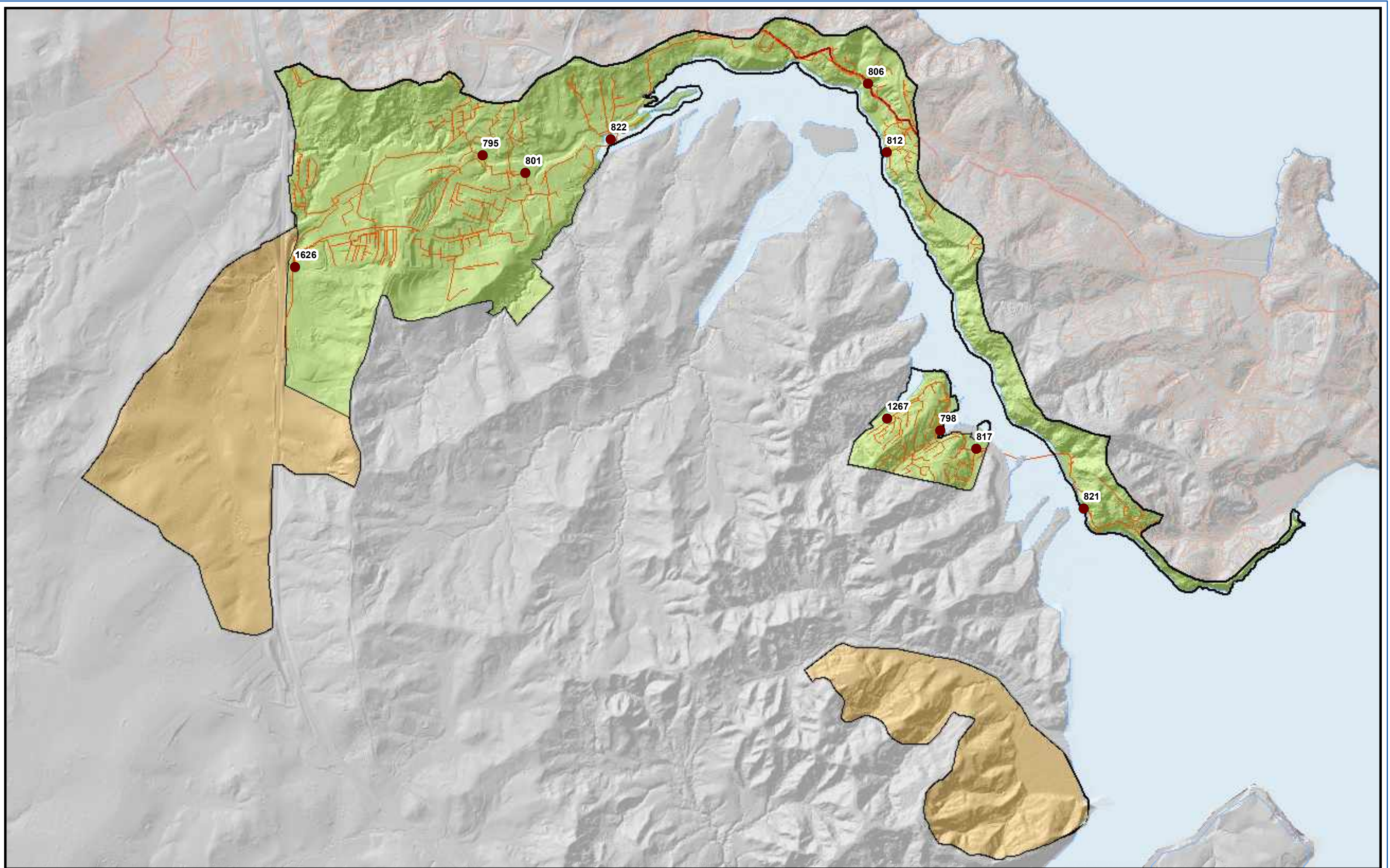
BASE MAP
HBC-Orewa Catchment



SCALE: 1:29,500 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2

Watercare
 An Auckland Council Organisation

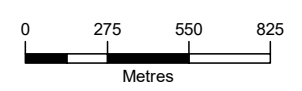
DISCLAIMER
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LEGEND

● Type 1 Operational	— Local Network Pipe
● Type 2 Operational	— Transmission Network Pipe
▲ Local Treatment Plant	Existing Urban Area (as defined in NDC)
▲ Transmission Treatment Plant	Indicative Future Urban Areas (as defined in NDC)

BASE MAP
HBC-Weiti Catchment



SCALE: 1:25,500 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2

Watercare
 An Auckland Council Organisation

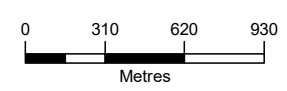
DISCLAIMER
 Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.



LEGEND

● Type 1 Operational	— Local Network Pipe
● Type 2 Operational	— Transmission Network Pipe
▲ Local Treatment Plant	 Existing Urban Area (as defined in NDC)
▲ Transmission Treatment Plant	 Indicative Future Urban Areas (as defined in NDC)

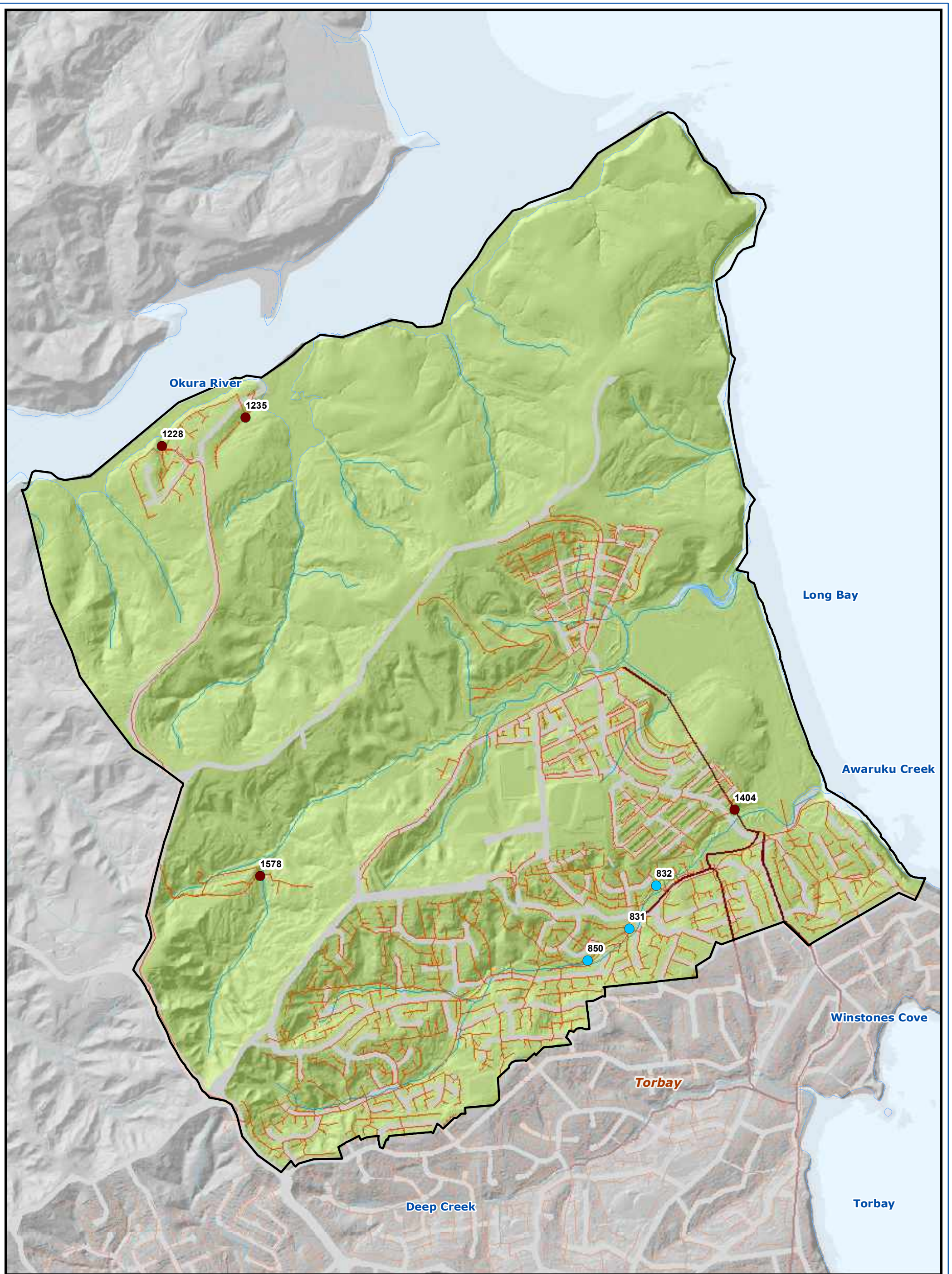
BASE MAP
HBC-Whangaparaoa Catchment



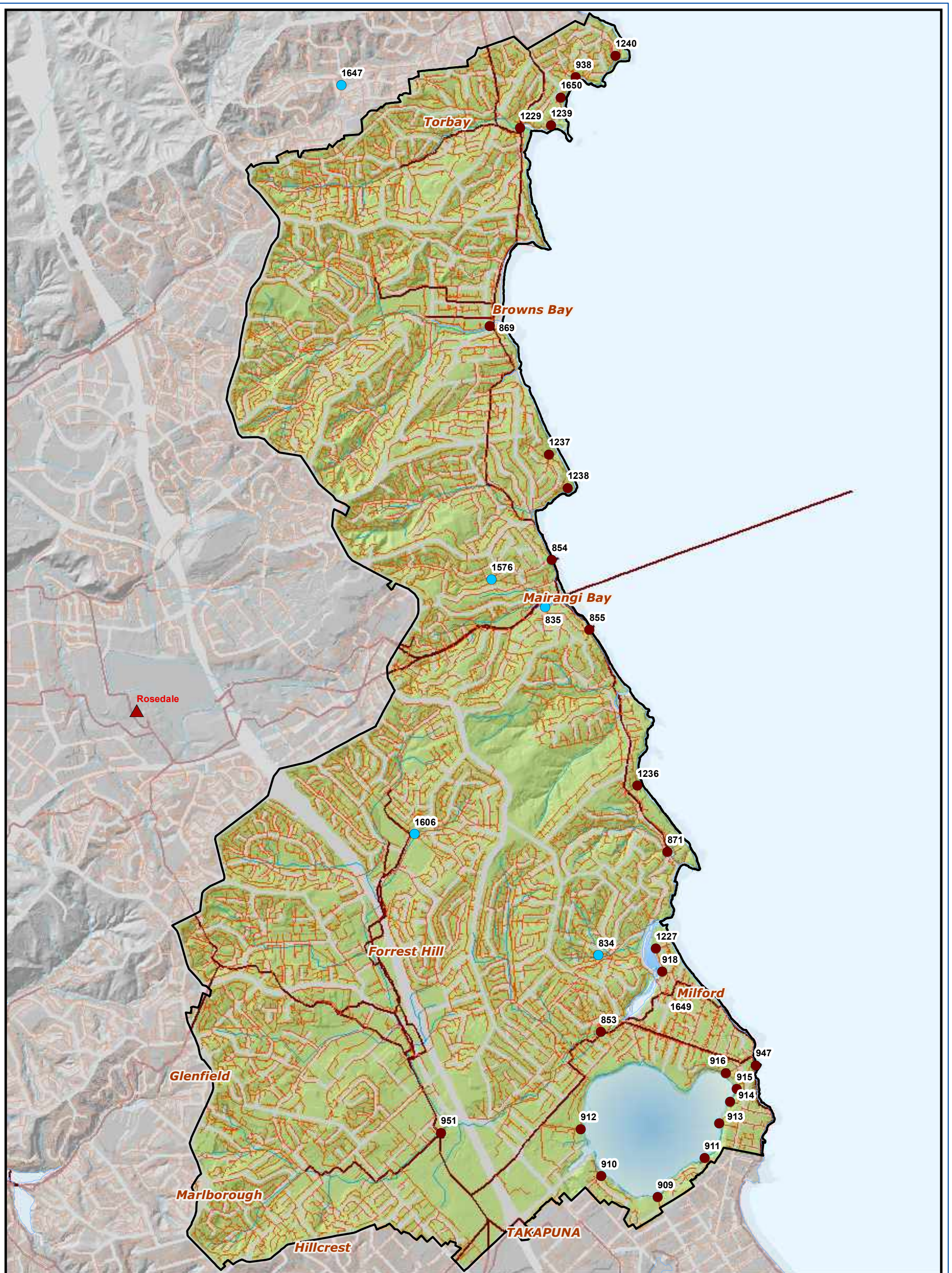
SCALE: 1:29,500 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2


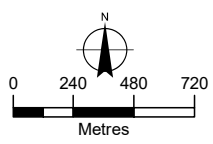
Watercare
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DISCLAIMER
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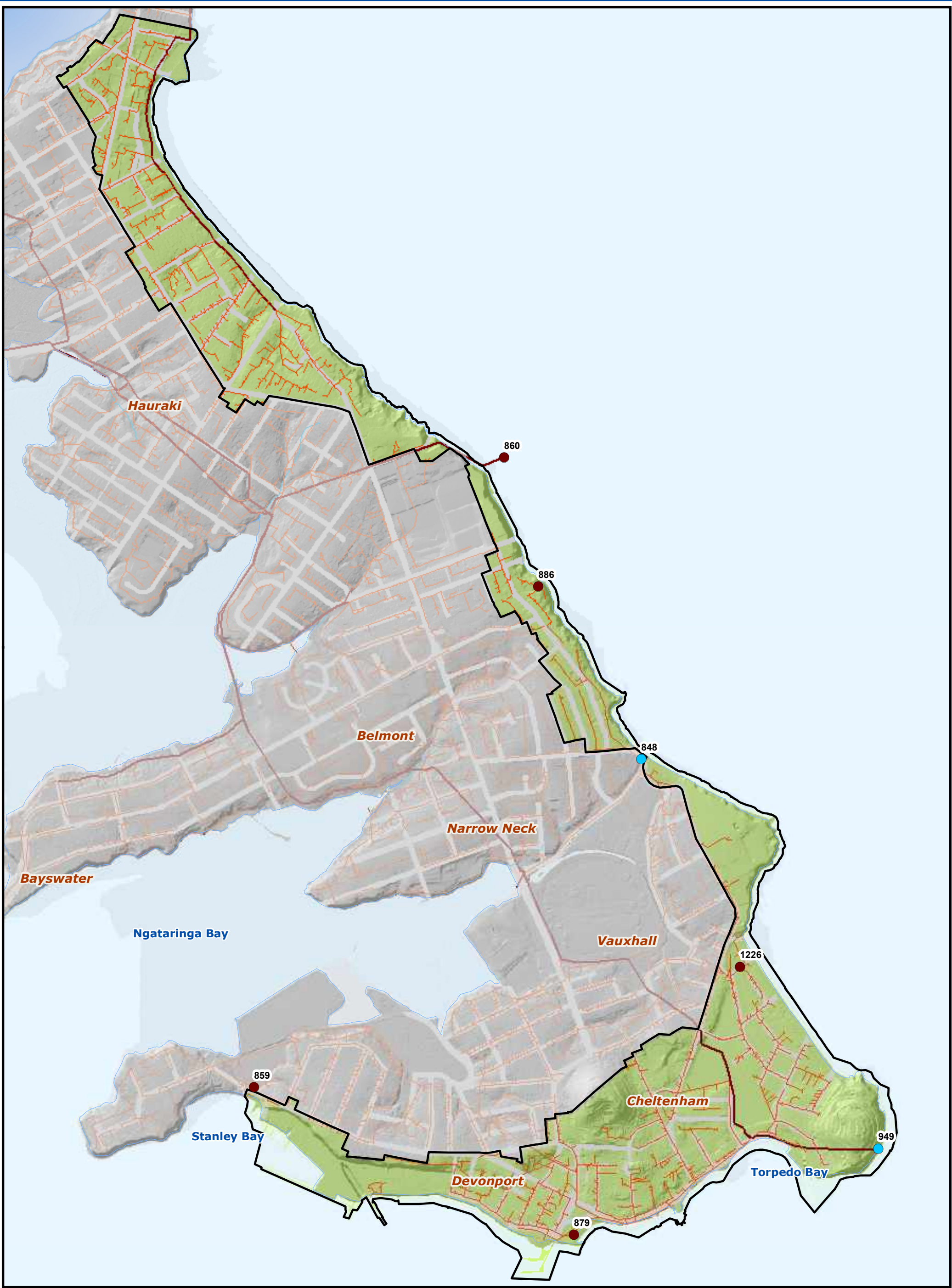


LEGEND		BASE MAP			<p>SCALE: 1:16,000 @A3 CREATED BY: ASARIBALI DATE: 11 August 2025 MAP NO: PR24035_2</p> <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe ■ Existing Urban Area (as defined in NDC) ■ Indicative Future Urban Area (as defined in NDC) 	<p>Long Bay Catchment</p>			



LEGEND		BASE MAP		SCALE: 1:30,000 @A3 CREATED BY: ASARIBALI DATE: 11 August 2025 MAP NO: PR24035_2  An Auckland Council Organisation <small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe Existing Urban Area (as defined in NDC) Indicative Future Urban Area (as defined in NDC) 	East Coast Bays Catchment 		

Appendix B-1 Network Catchment Maps

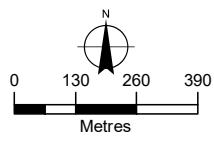


LEGEND

- Type 1 Operational
- Type 2 Operational
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

BASE MAP

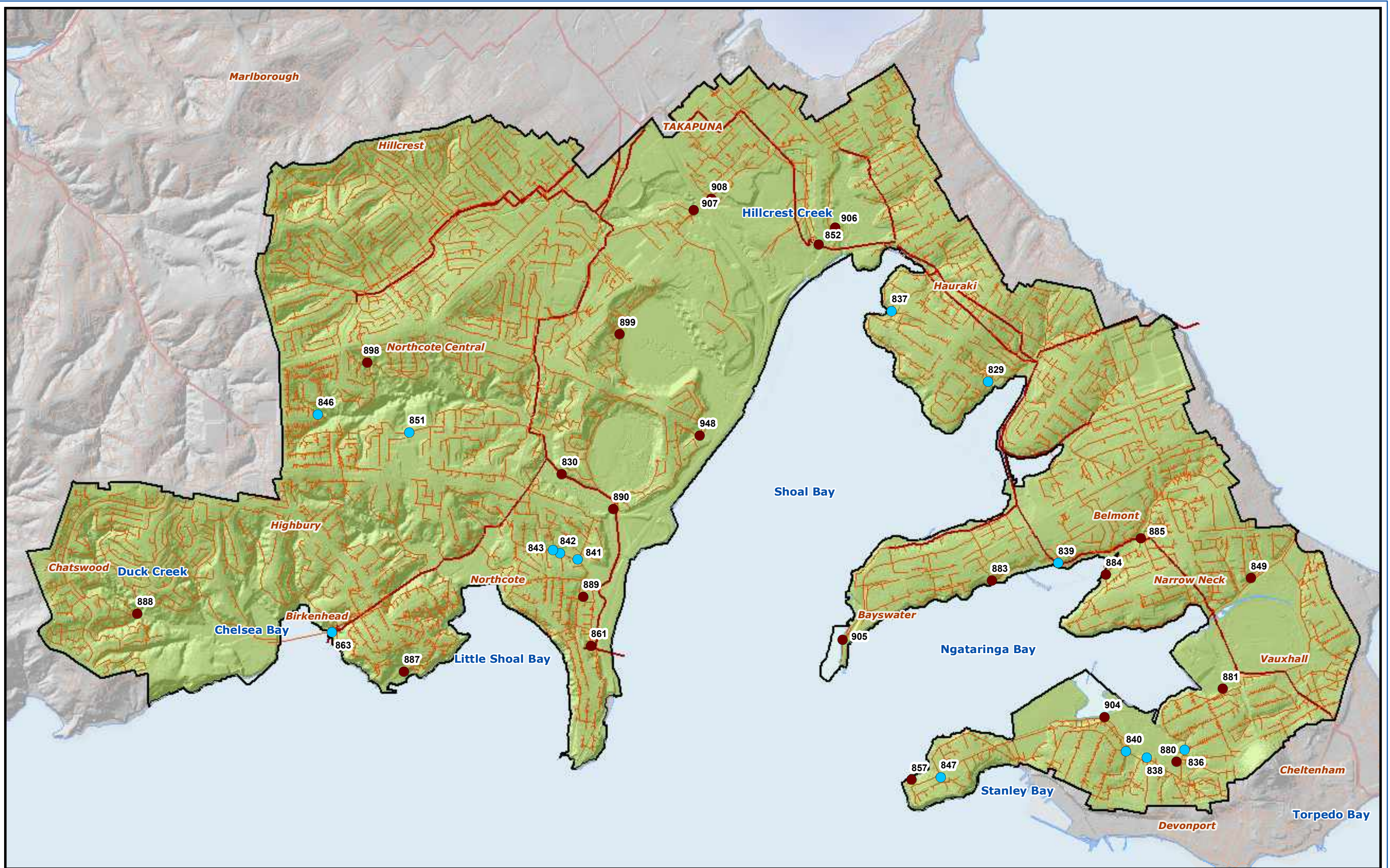
Devonport-Takapuna Catchment



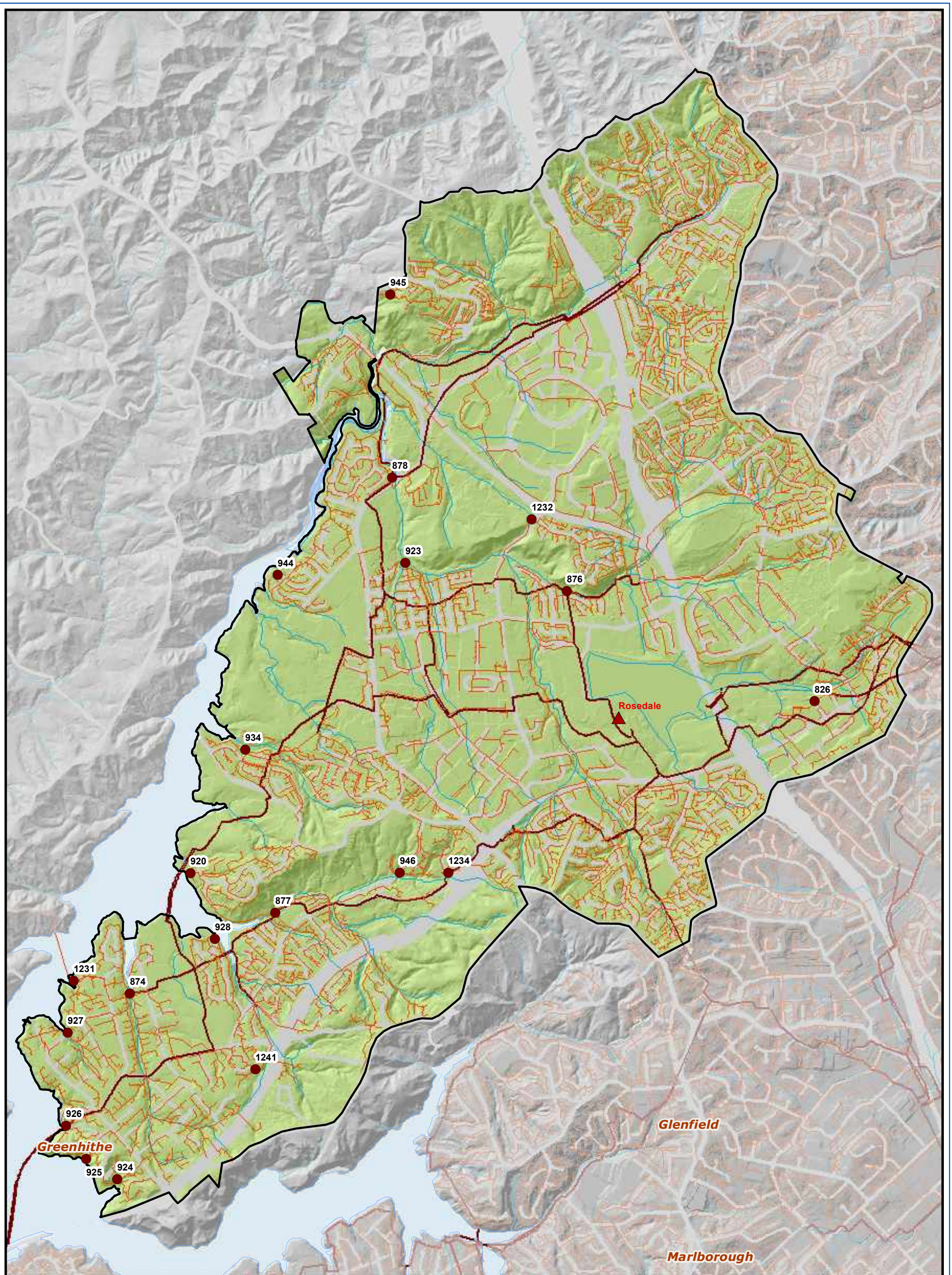
SCALE: 1:16,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

Watercare
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DISCLAIMER
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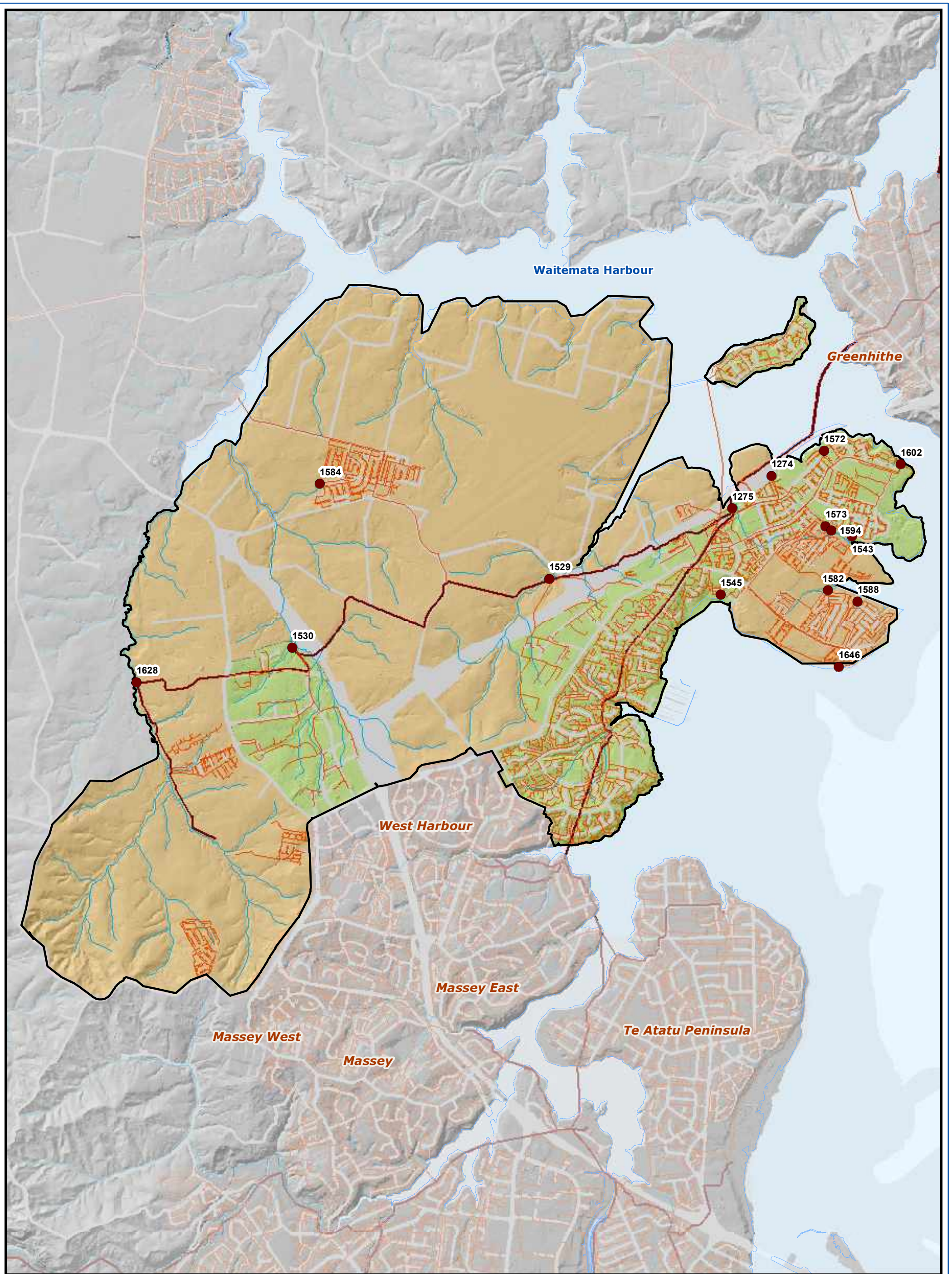
LEGEND		BASE MAP		SCALE: 1:23,000 @A3 CREATED BY : ASARIBALI DATE: 08 August 2025 MAP NO: PR24035_2	
● Type 1 Operational	— Local Network Pipe	Shoal Bay Catchment		 	
● Type 2 Operational	— Transmission Network Pipe				
▲ Local Treatment Plant	Existing Urban Area (as defined in NDC)			 <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>	
▲ Transmission Treatment Plant	Indicative Future Urban Areas (as defined in NDC)				



LEGEND		BASE MAP		 SCALE: 1:27,000 @A3 CREATED BY: ASARIBALI DATE: 11 August 2025 MAP NO: PR24035_2 Watercare An Auckland Council Organisation <small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe ■ Existing Urban Area (as defined in NDC) ■ Indicative Future Urban Area (as defined in NDC) 	Upper Harbour North Catchment		



LEGEND		BASE MAP			<p>SCALE: 1:20,000 @A3 CREATED BY: ASARIBALI DATE: 11 August 2025 MAP NO: PR24035_2</p> <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe Existing Urban Area (as defined in NDC) Indicative Future Urban Area (as defined in NDC) 	<p>Upper Harbour South Catchment</p>			

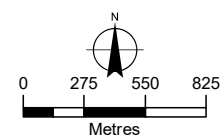


- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant

- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

BASE MAP

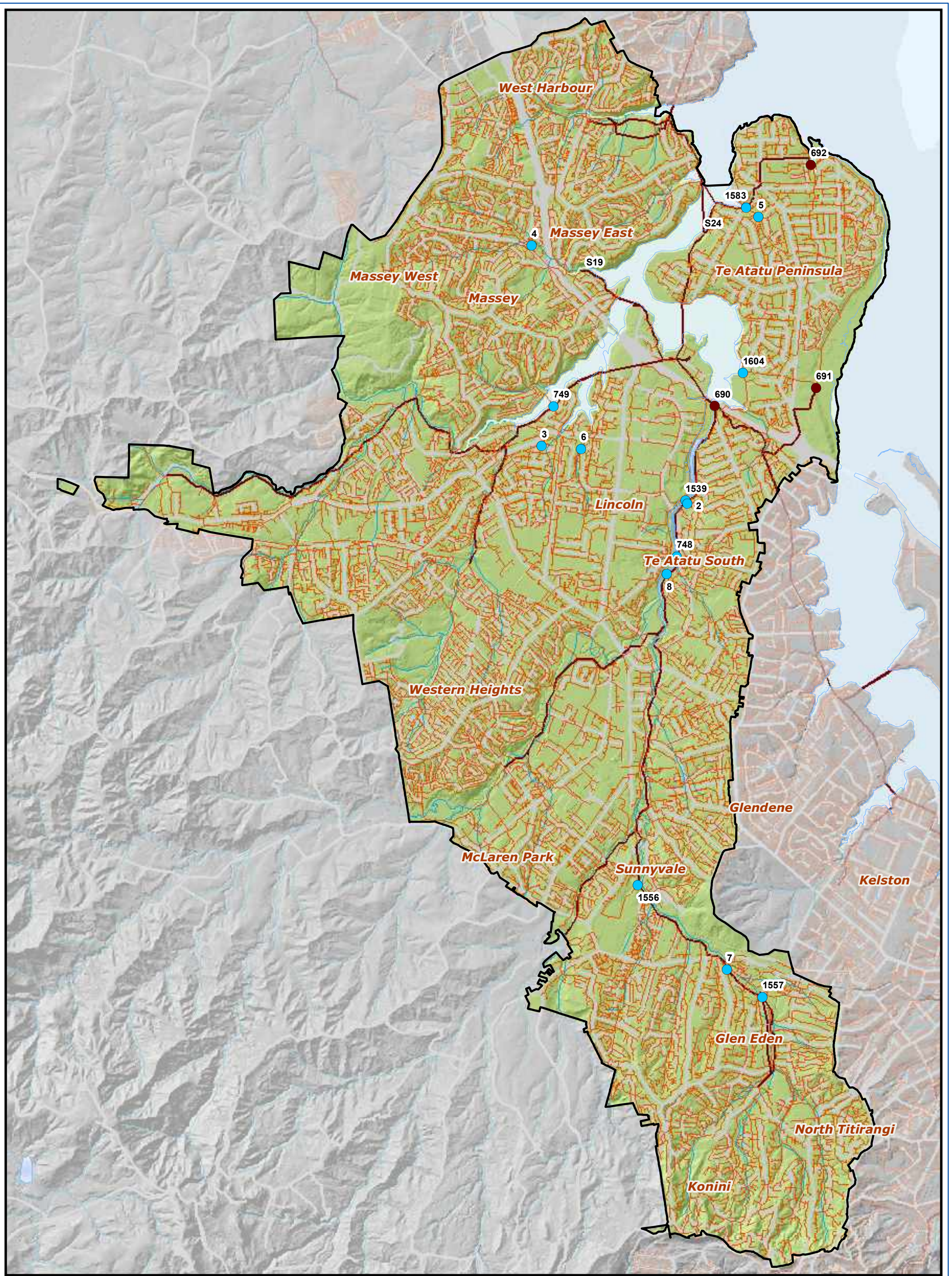
Upper Harbour West Catchment



SCALE: 1:34,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

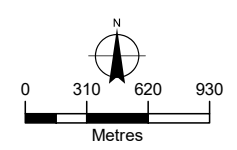
Watercare
 An Auckland Council Organisation

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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

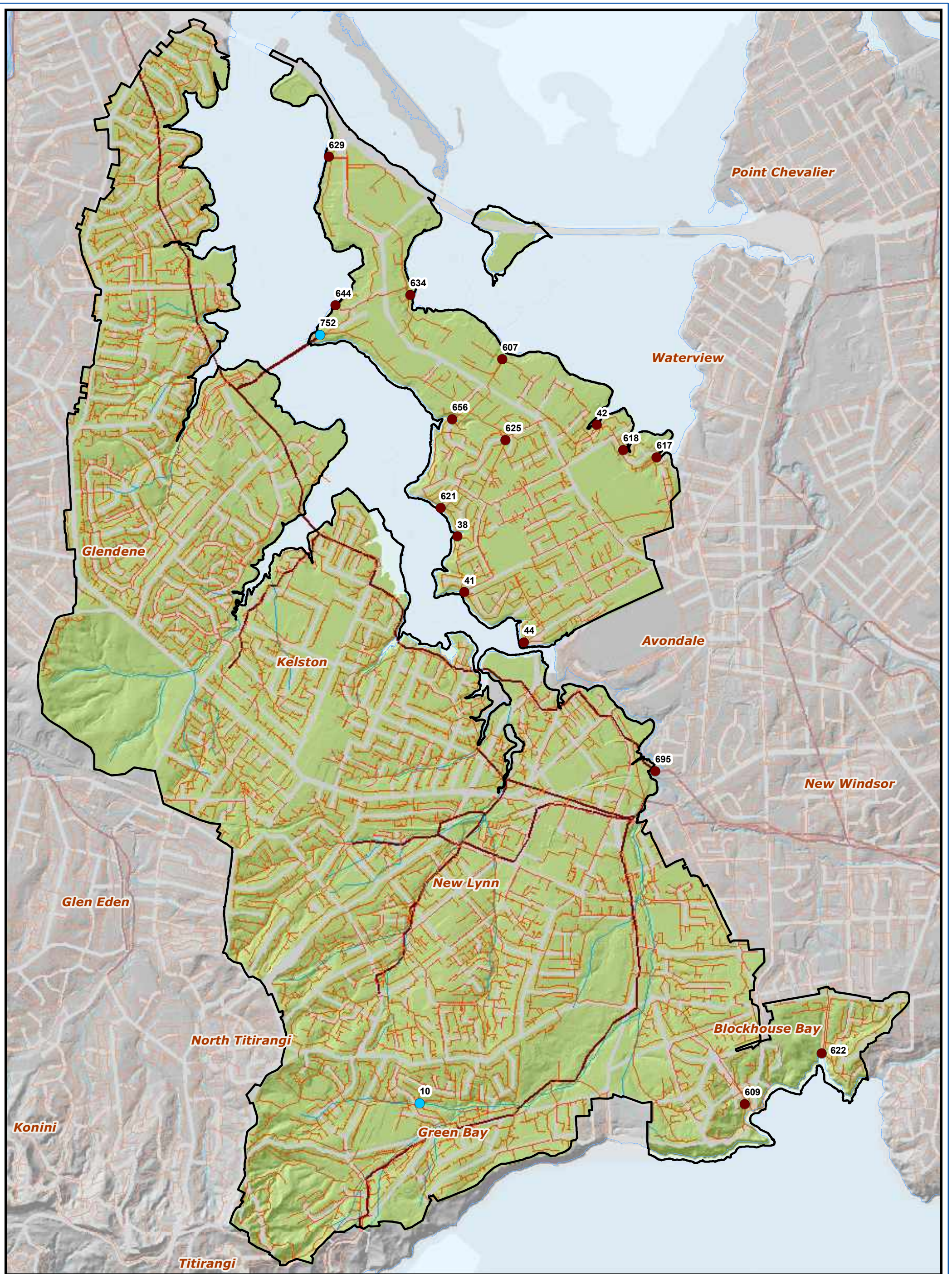
BASE MAP
Henderson Creek Catchment



SCALE: 1:38,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

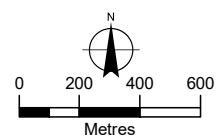
Watercare
 An Auckland Council Organisation

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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

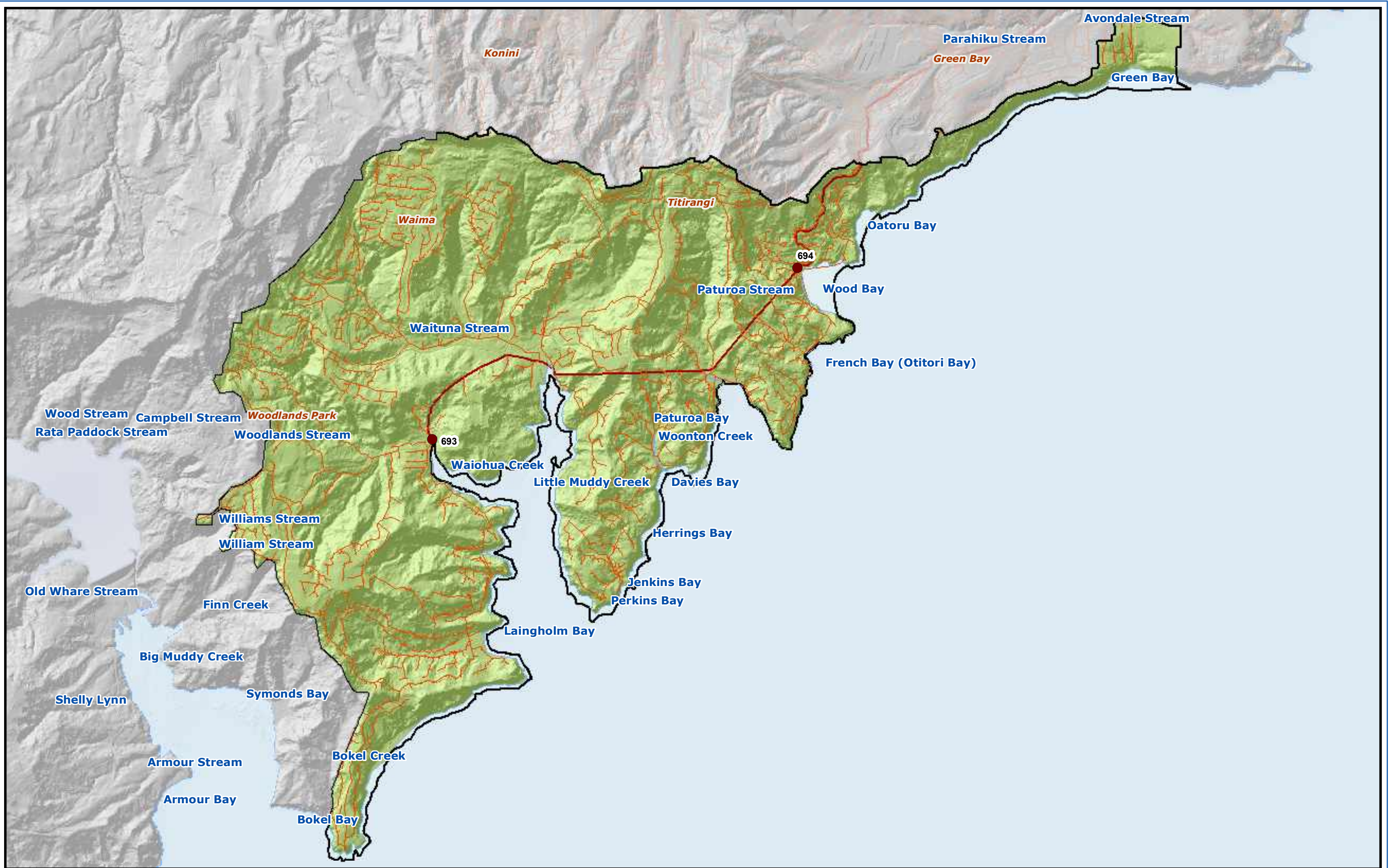
BASE MAP
Whau River Catchment



SCALE: 1:25,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

Watercare
 An Auckland Council Organisation

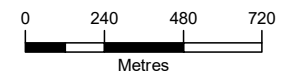
DISCLAIMER
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LEGEND

● Type 1 Operational	— Local Network Pipe
● Type 2 Operational	— Transmission Network Pipe
▲ Local Treatment Plant	■ Existing Urban Area (as defined in NDC)
▲ Transmission Treatment Plant	■ Indicative Future Urban Areas (as defined in NDC)

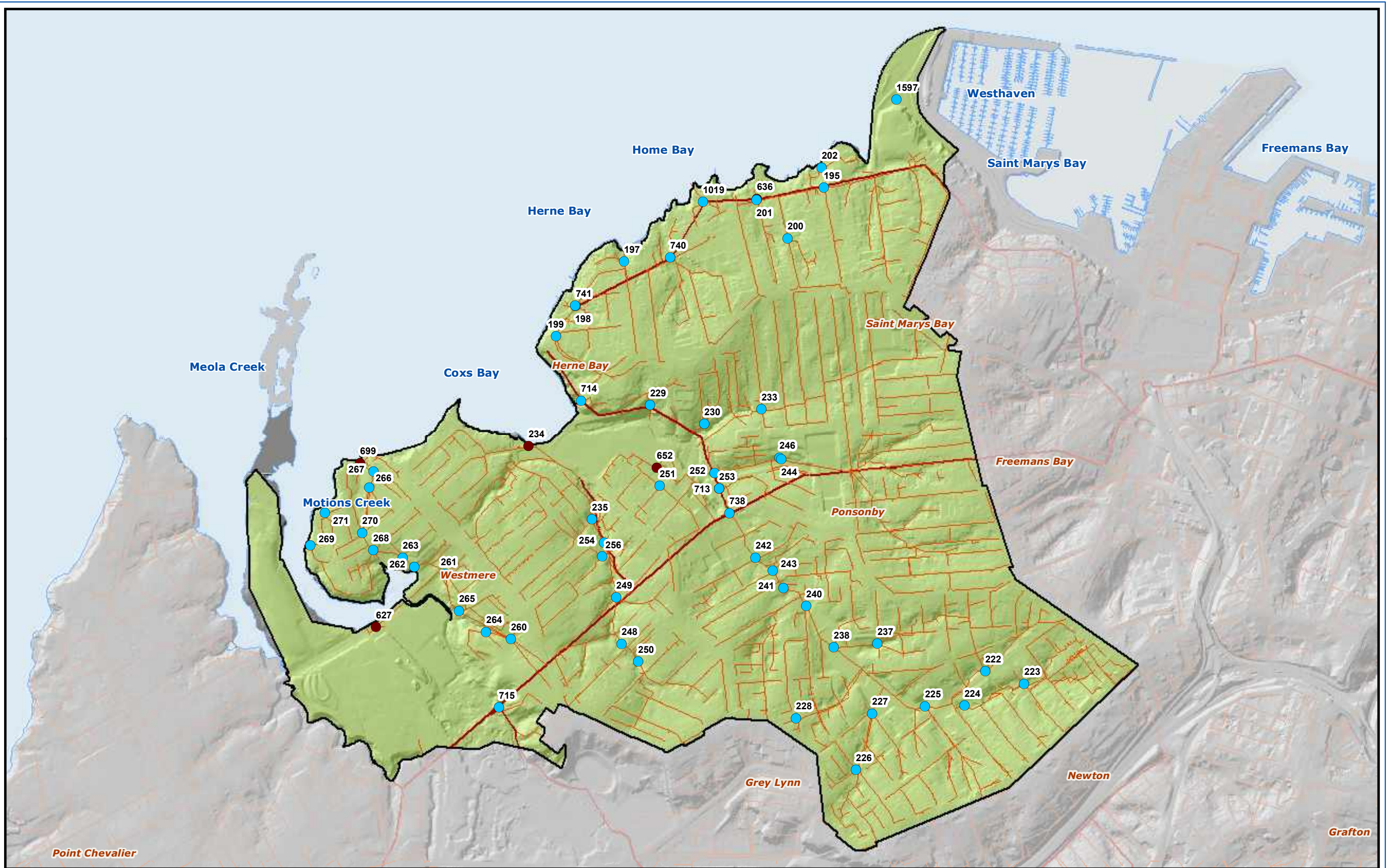
BASE MAP
Laingholm Catchment

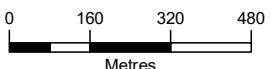




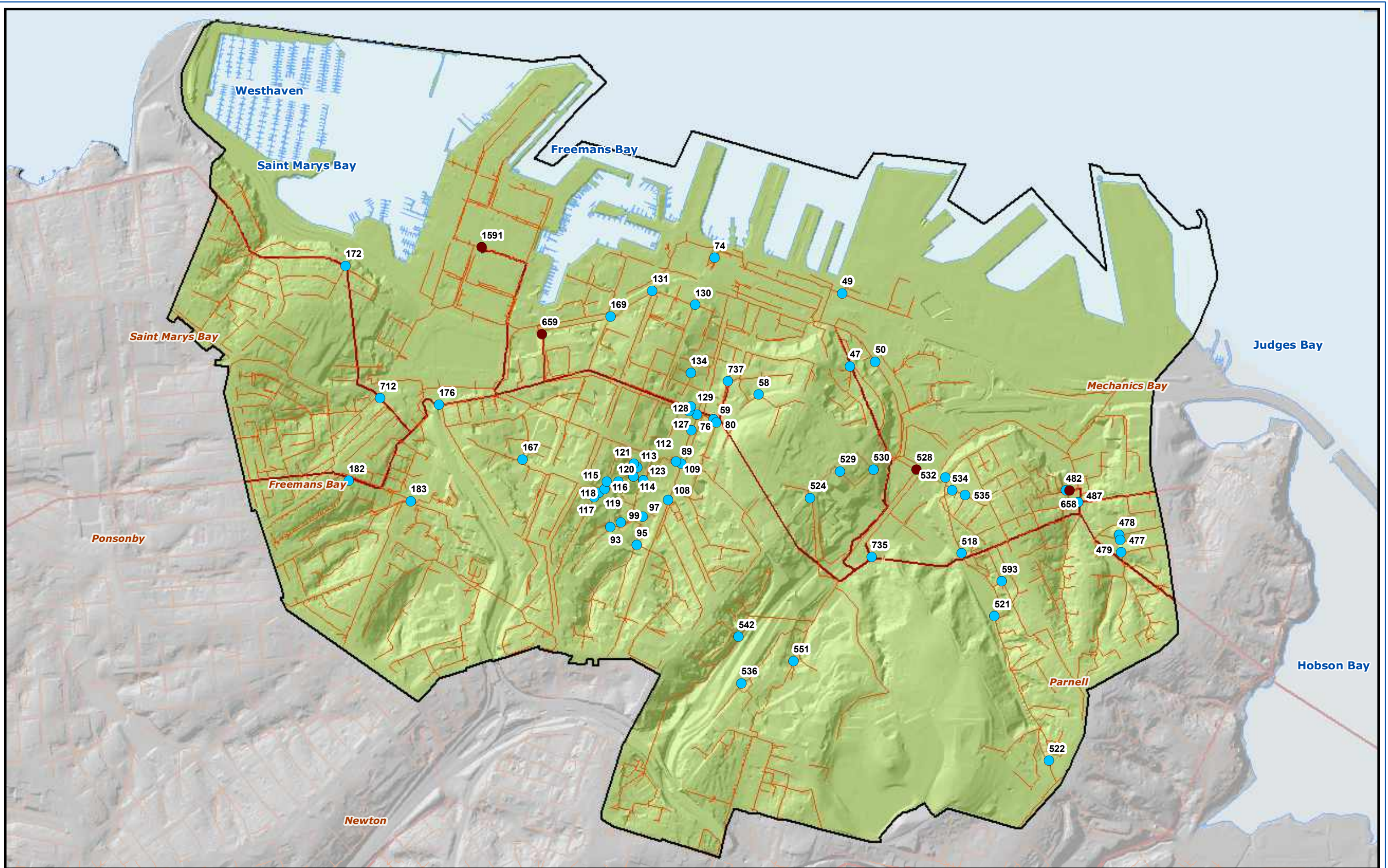
SCALE: 1:23,000 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2

Watercare
 An Auckland Council Organisation

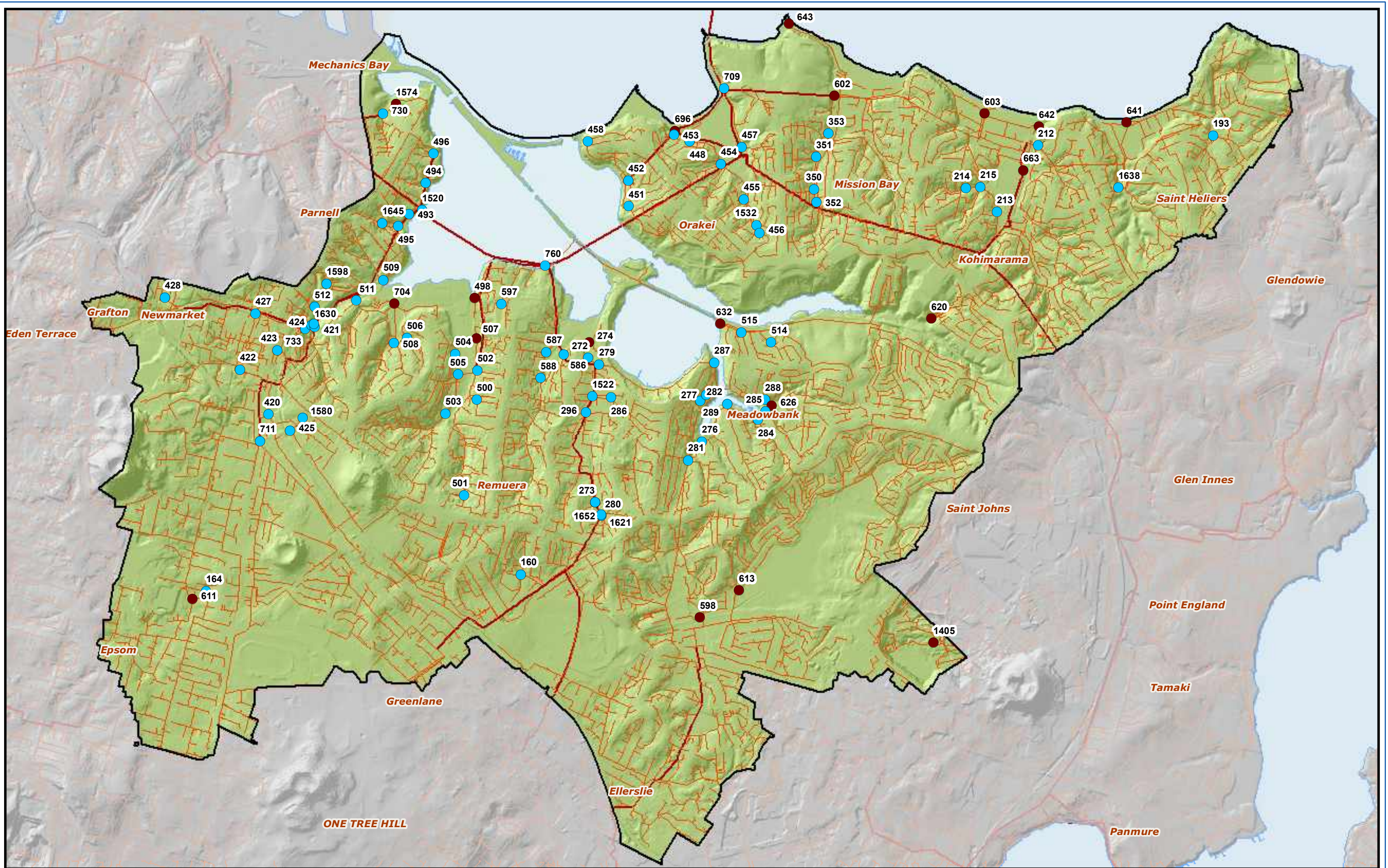
DISCLAIMER
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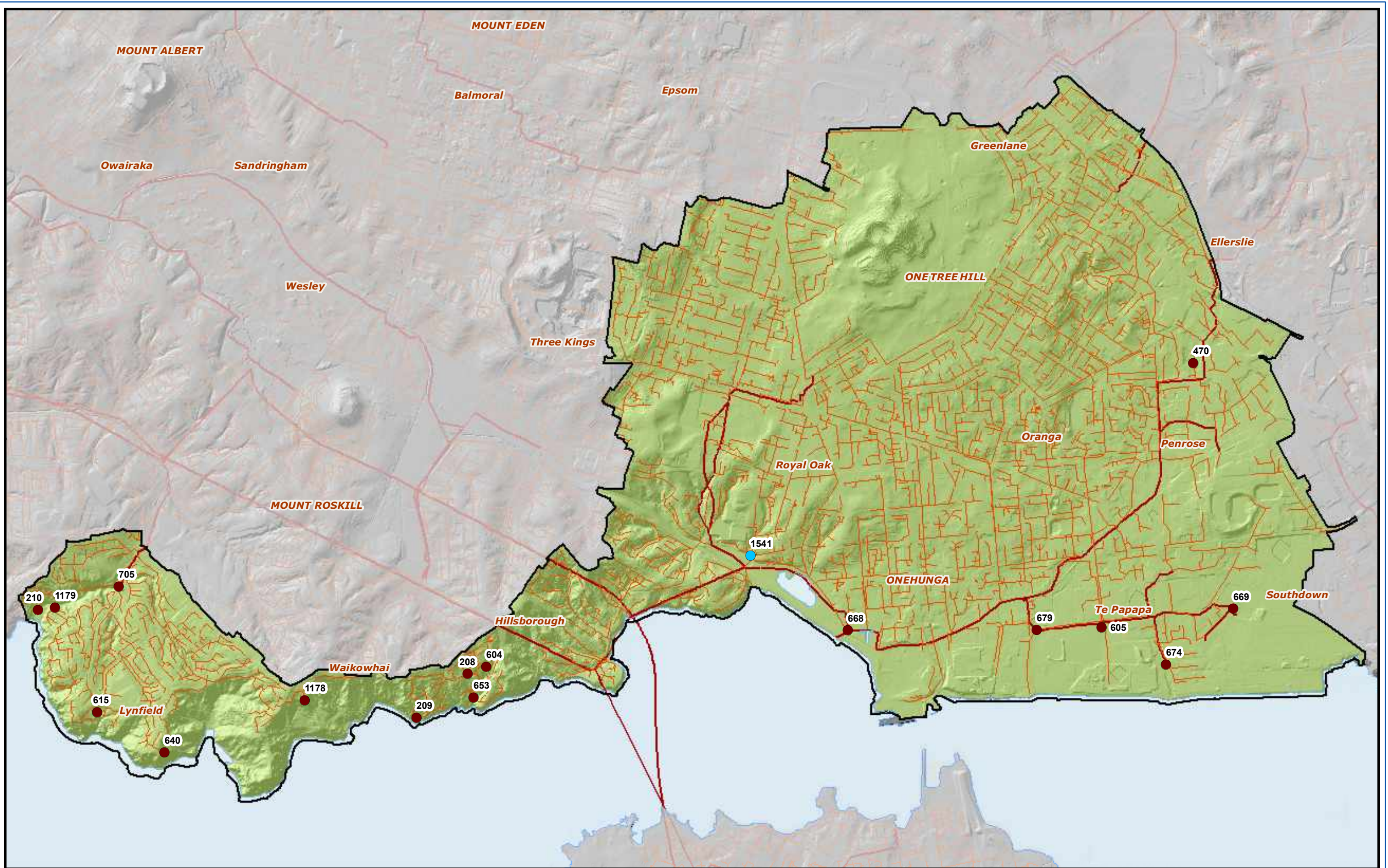
LEGEND		BASE MAP		SCALE: 1:15,000 @A3 CREATED BY : ASARIBALI DATE: 08 August 2025 MAP NO: PR24035_2	
● Type 1 Operational	— Local Network Pipe	Coxs Bay Catchment		 	
● Type 2 Operational	— Transmission Network Pipe				
▲ Local Treatment Plant	Existing Urban Area (as defined in NDC)			 <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>	
▲ Transmission Treatment Plant	Indicative Future Urban Areas (as defined in NDC)				



LEGEND		BASE MAP		SCALE: 1:14,000 @A3 CREATED BY : ASARIBALI DATE: 08 August 2025 MAP NO: PR24035_2	
● Type 1 Operational	— Local Network Pipe	Central Auckland (CBD) Catchment			
● Type 2 Operational	— Transmission Network Pipe				
▲ Local Treatment Plant	Existing Urban Area (as defined in NDC)	 			
▲ Transmission Treatment Plant	Indicative Future Urban Areas (as defined in NDC)				

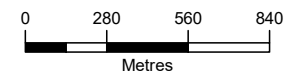


LEGEND		BASE MAP Hobson Bay Catchment				<p>SCALE: 1:28,000 @A3 CREATED BY : ASARIBALI DATE: 08 August 2025 MAP NO: PR24035_2</p> <p>Watercare An Auckland Council Organisation</p> <p>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</p>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe Existing Urban Area (as defined in NDC) Indicative Future Urban Areas (as defined in NDC) 					



BASE MAP
Onehunga Catchment

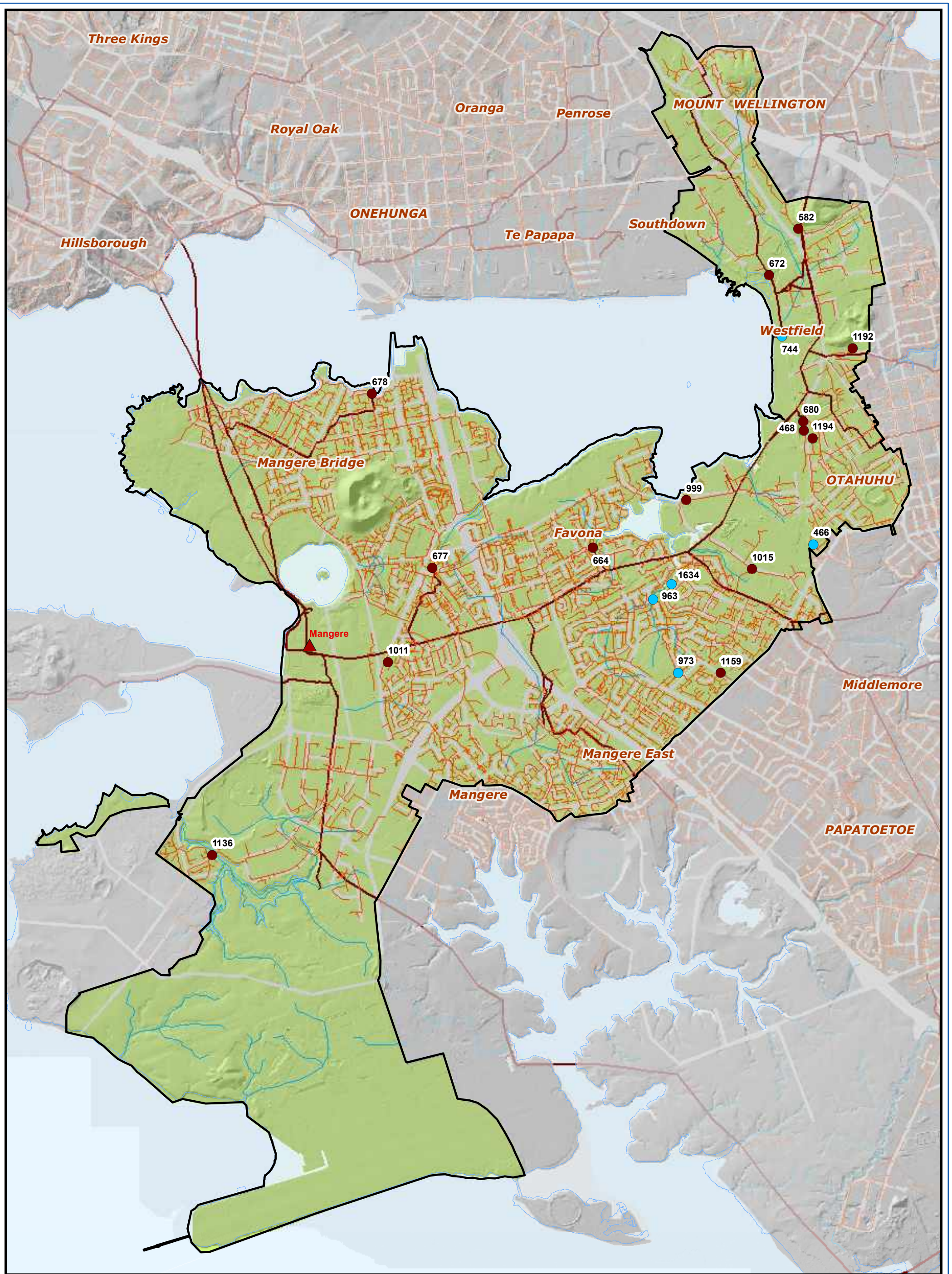
- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Areas (as defined in NDC)



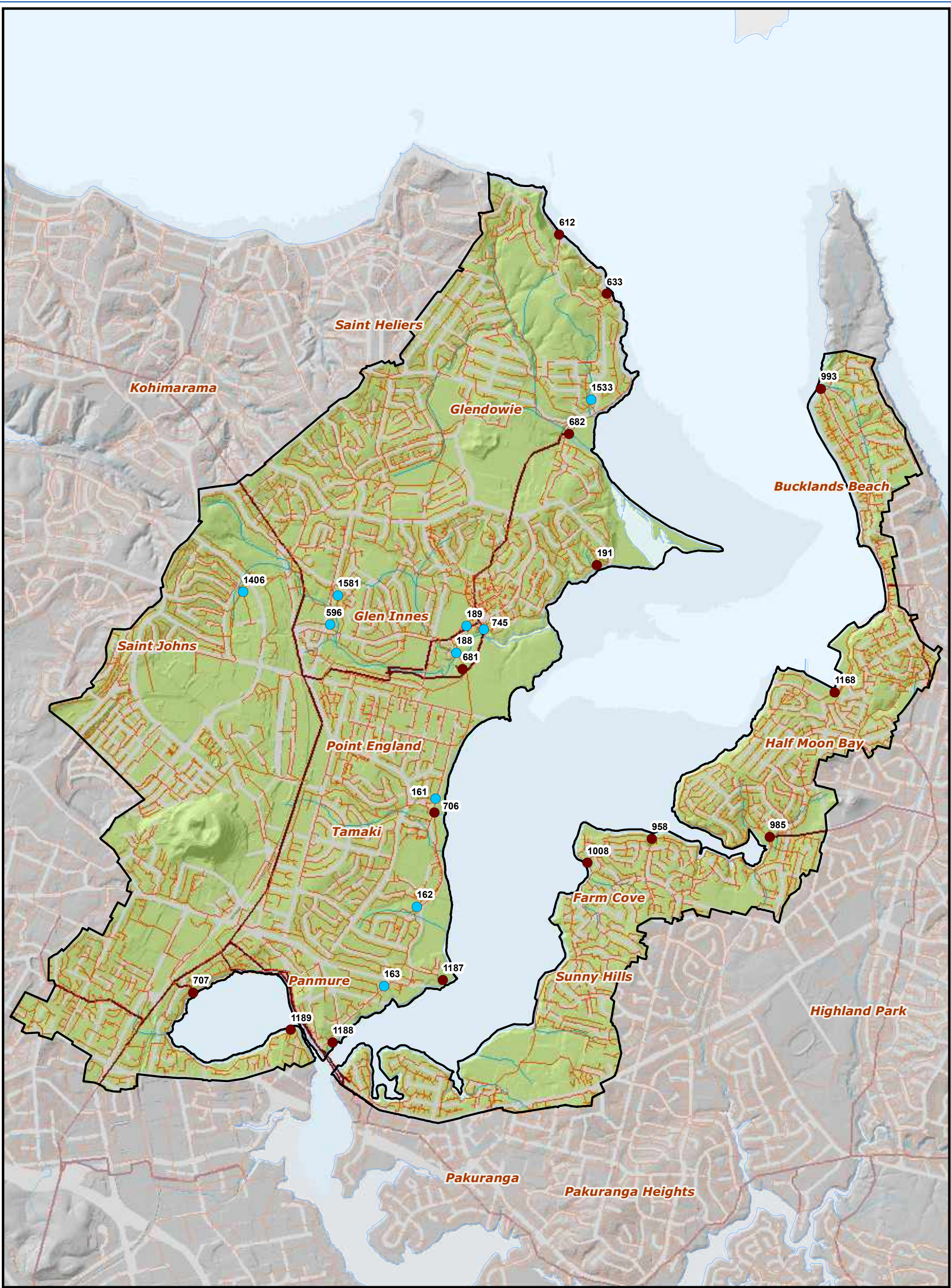
SCALE: 1:26,000 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2

Watercare
 An Auckland Council Organisation

DISCLAIMER
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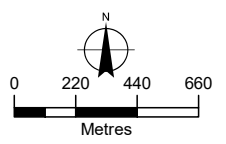
LEGEND		BASE MAP			<p>SCALE: 1:35,000 @A3 CREATED BY: ASARIBALI DATE: 11 August 2025 MAP NO: PR24035_2</p> <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>
<ul style="list-style-type: none"> ● Type 1 Operational ● Type 2 Operational ▲ Local Treatment Plant ▲ Transmission Treatment Plant 	<ul style="list-style-type: none"> — Local Network Pipe — Transmission Network Pipe Existing Urban Area (as defined in NDC) Indicative Future Urban Area (as defined in NDC) 	<p>Mangere Catchment</p>			



- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

BASE MAP

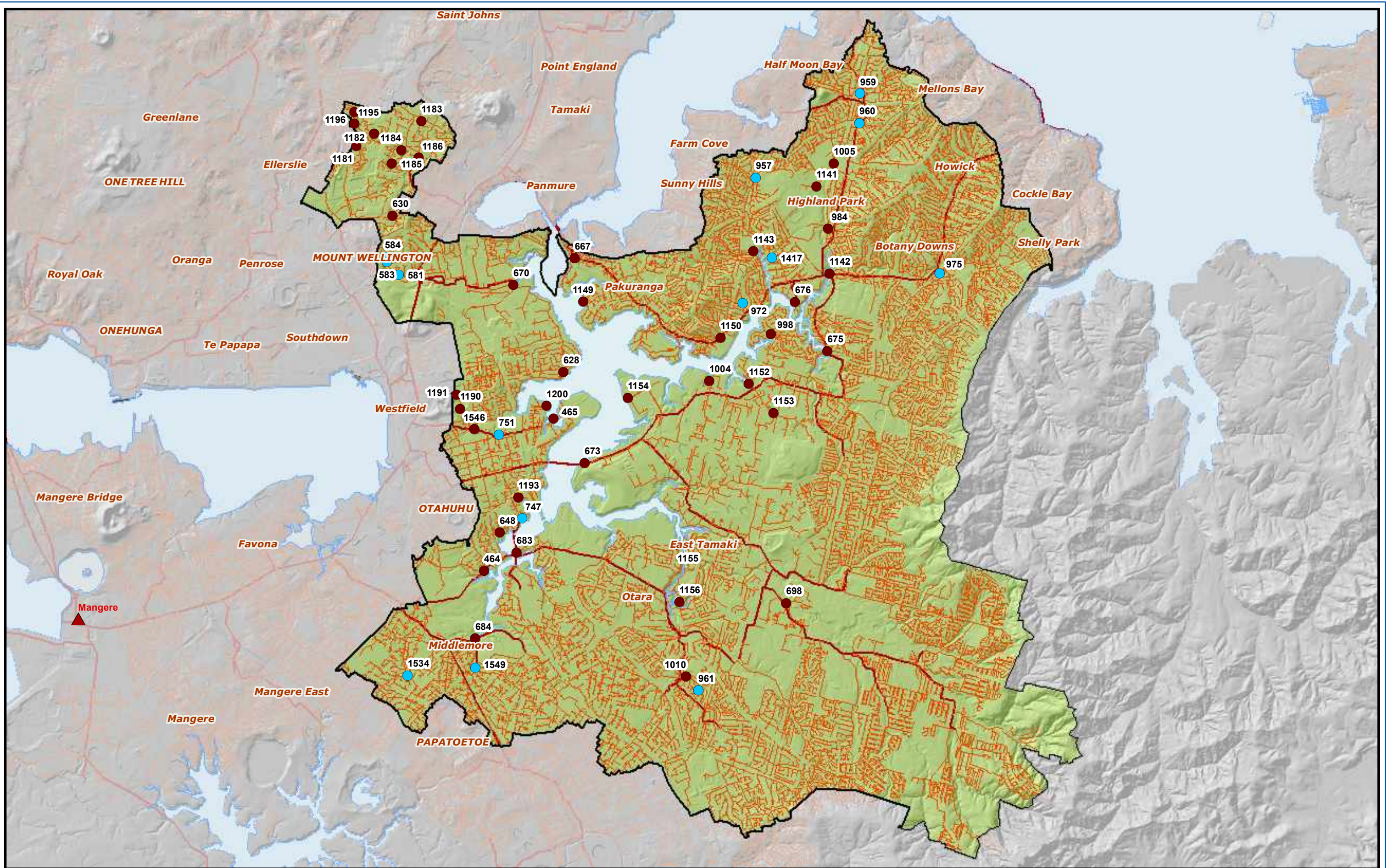
Lower Tamaki River Catchment

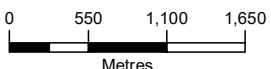




SCALE: 1:27,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

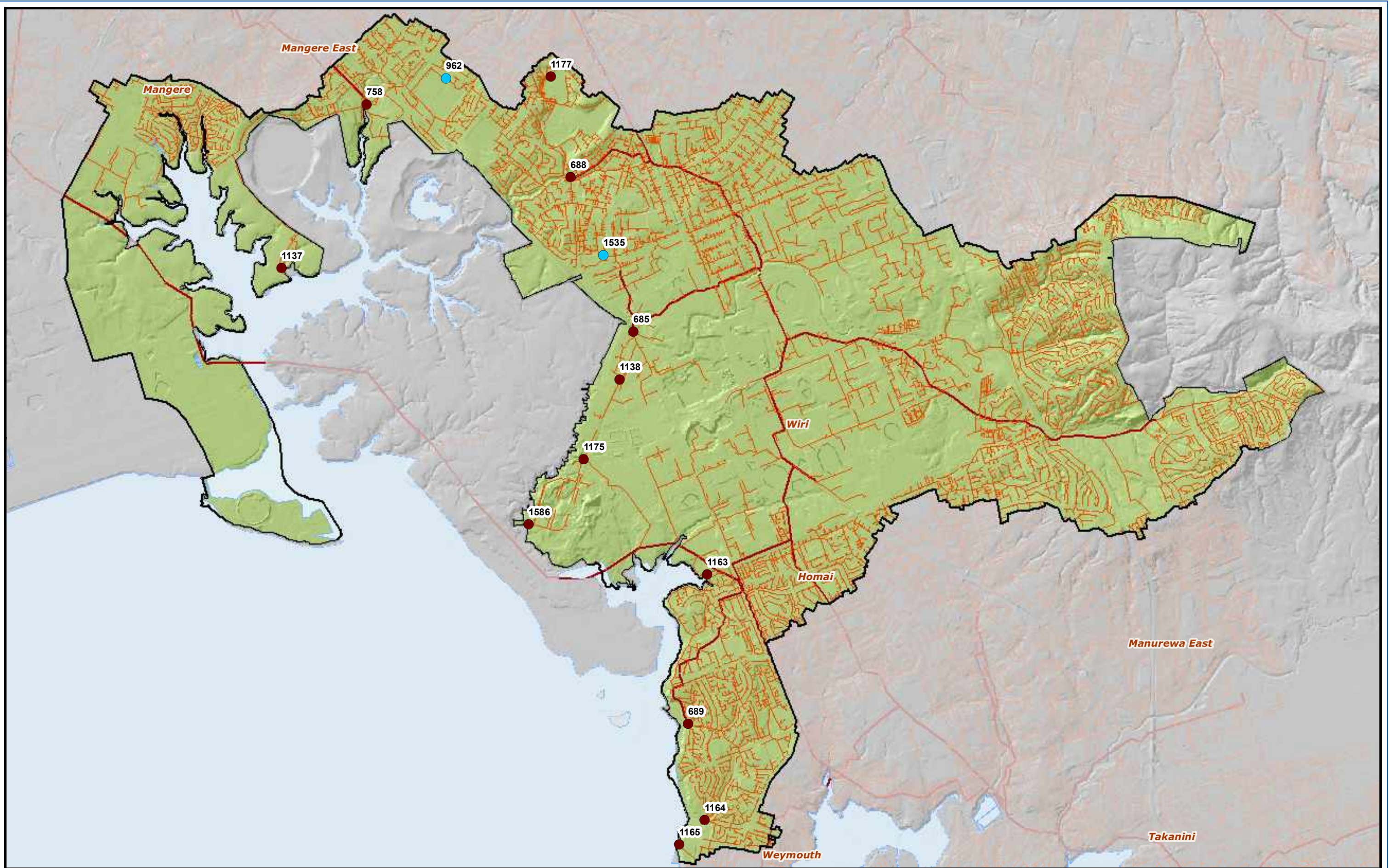
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LEGEND		BASE MAP		SCALE: 1:53,000 @A3 CREATED BY : ASARIBALI DATE: 08 August 2025 MAP NO: PR24035_2	
● Type 1 Operational	— Local Network Pipe	Upper Tamaki River Catchment			
● Type 2 Operational	— Transmission Network Pipe				
▲ Local Treatment Plant	Existing Urban Area (as defined in NDC)			 <small>Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small>	
▲ Transmission Treatment Plant	Indicative Future Urban Areas (as defined in NDC)				

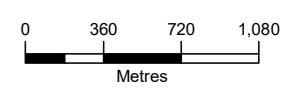




LEGEND

● Type 1 Operational	— Local Network Pipe
● Type 2 Operational	— Transmission Network Pipe
▲ Local Treatment Plant	■ Existing Urban Area (as defined in NDC)
▲ Transmission Treatment Plant	■ Indicative Future Urban Areas (as defined in NDC)

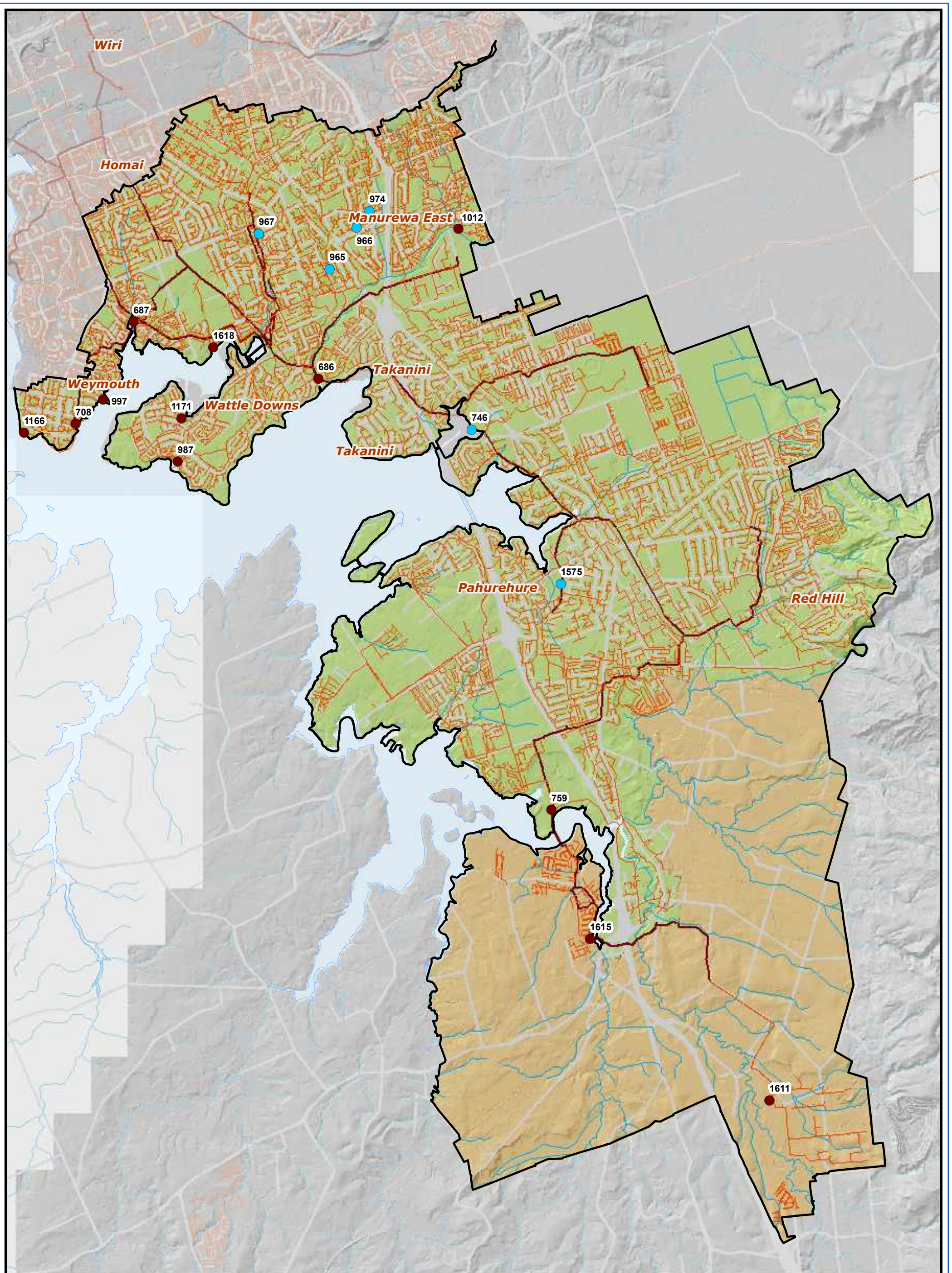
BASE MAP
Puhinui Catchment



SCALE: 1:35,000 @A3 CREATED BY : ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2

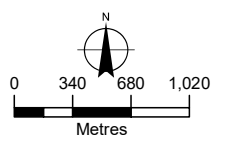
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant
 - Local Network Pipe
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

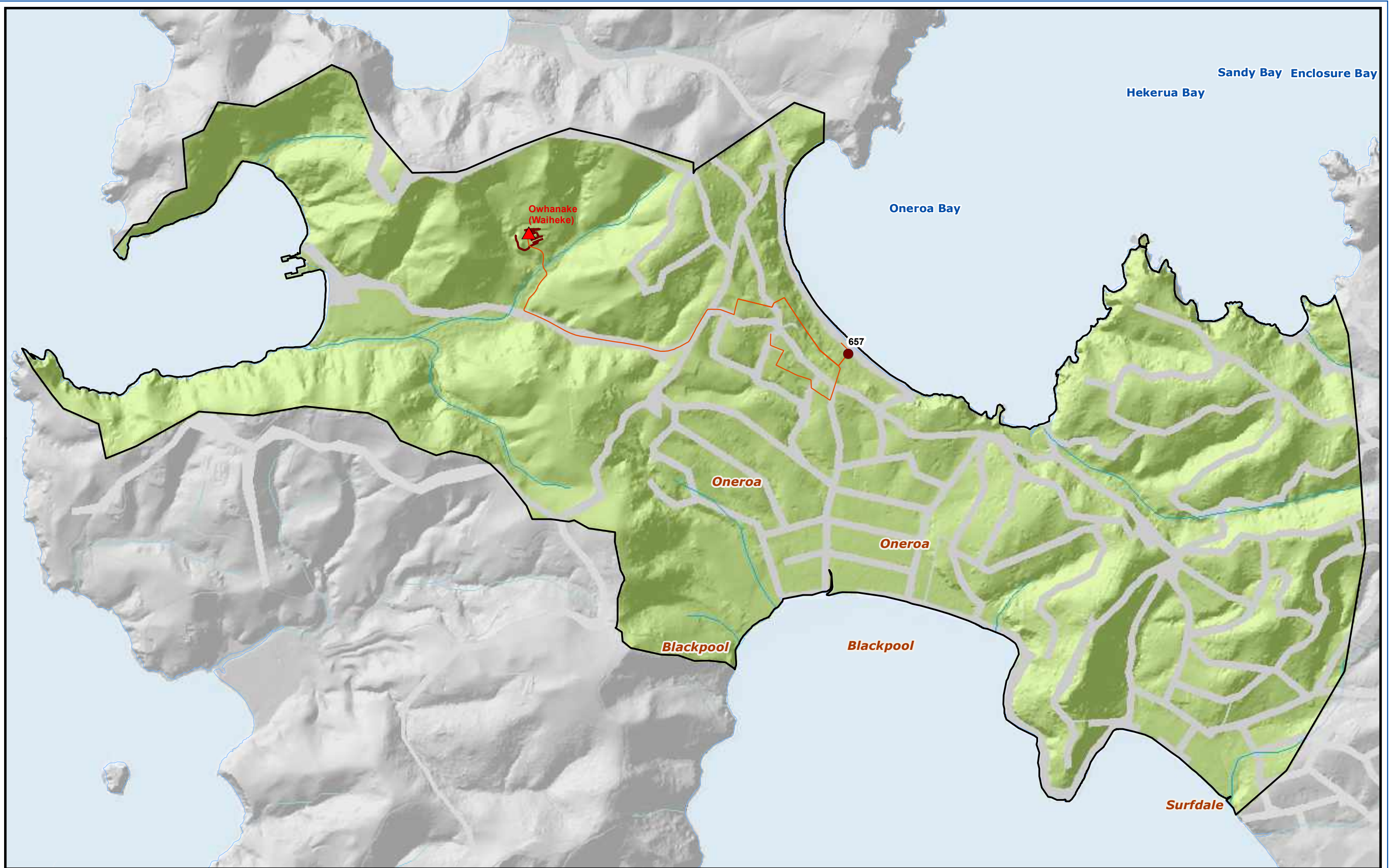
BASE MAP
Pahurehure Inlet Catchment



SCALE: 1:44,000 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

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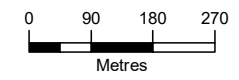
DISCLAIMER
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant

- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

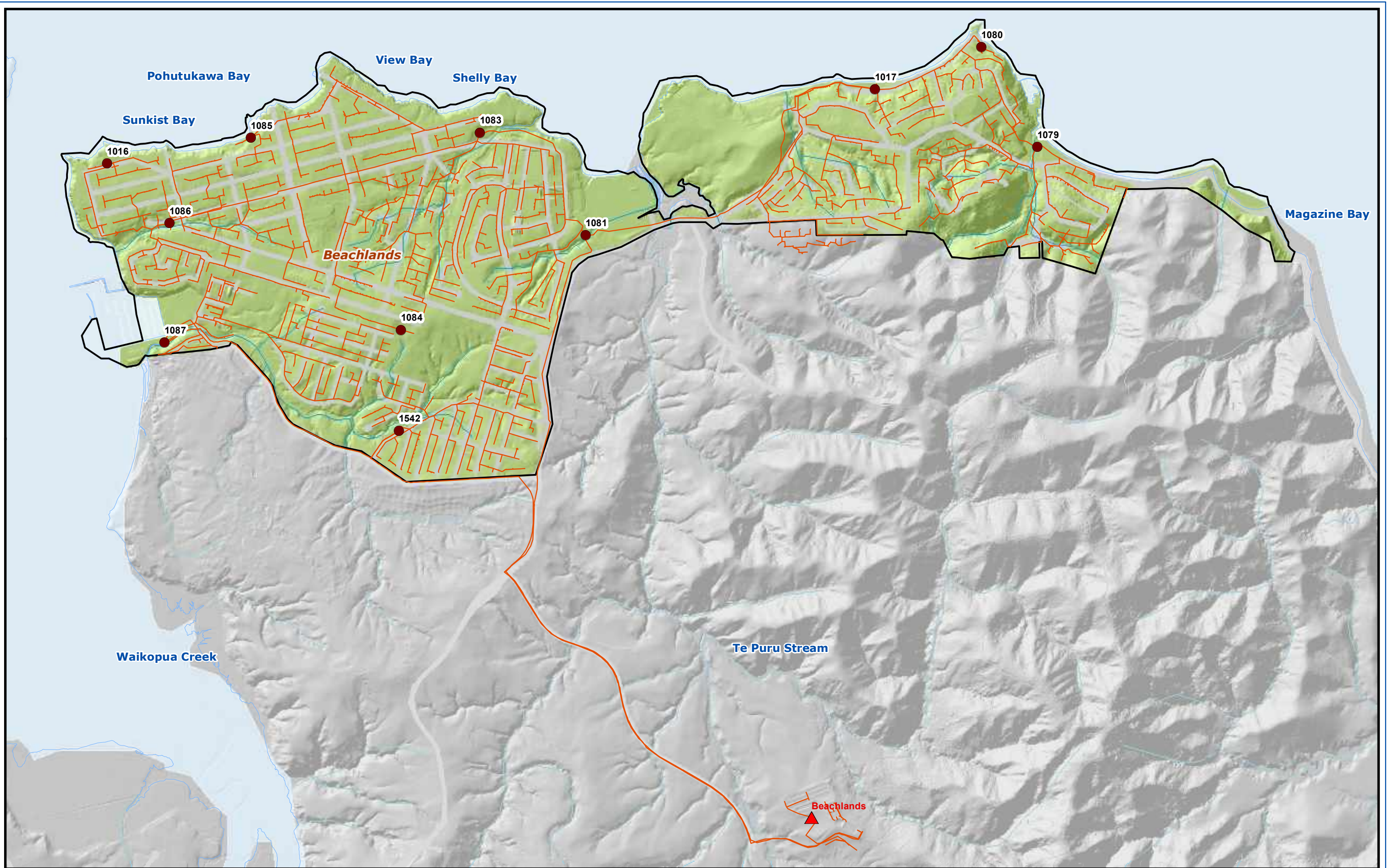
BASE MAP
Oneroa Catchment



SCALE: 1:11,000 @A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24034_2

Watercare
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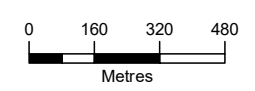
DISCLAIMER
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant

- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

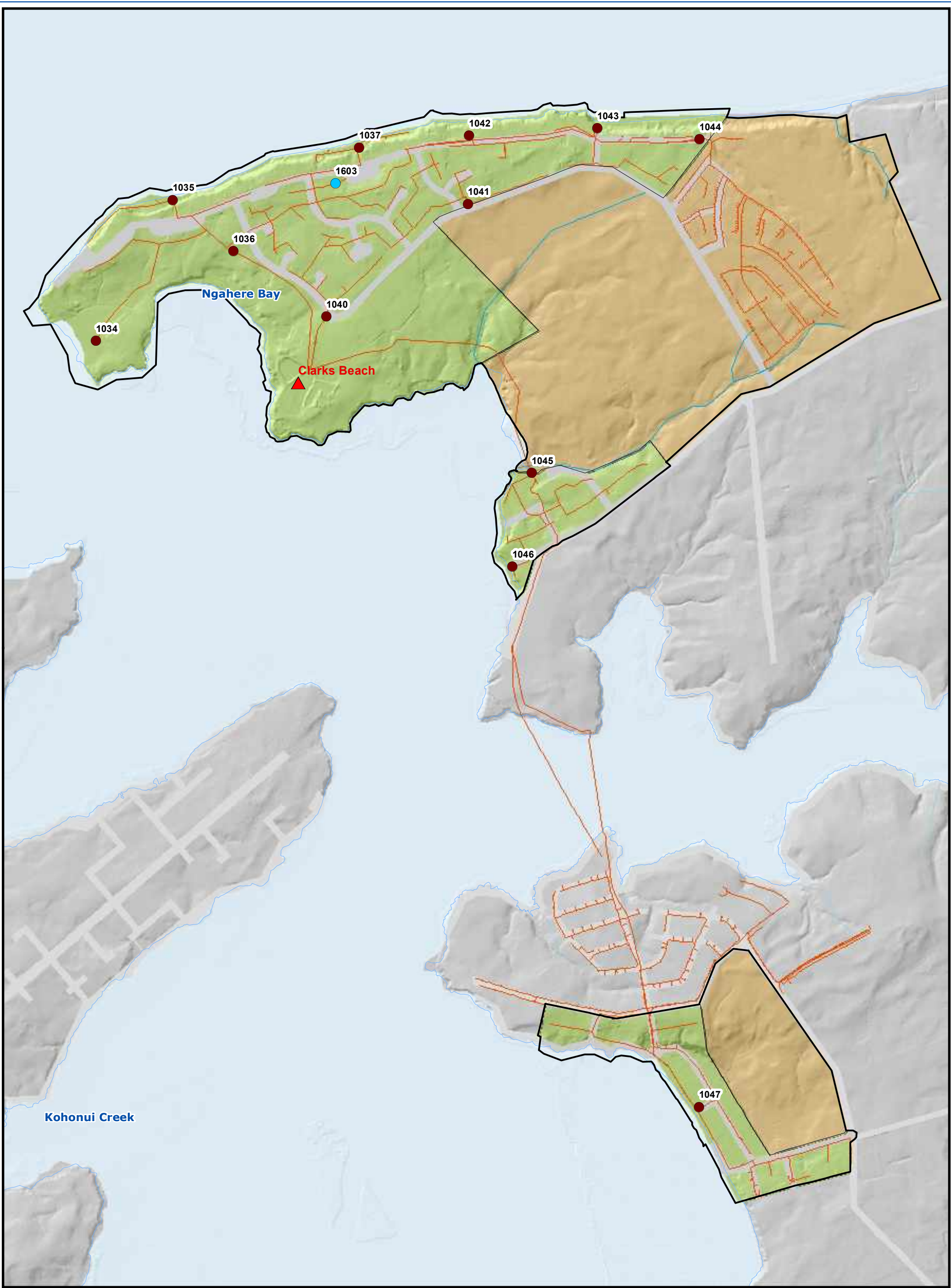
BASE MAP
Beachlands-Maraetai Catchment



SCALE: 1:18,500 @A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24034_2

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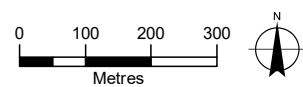
DISCLAIMER
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LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

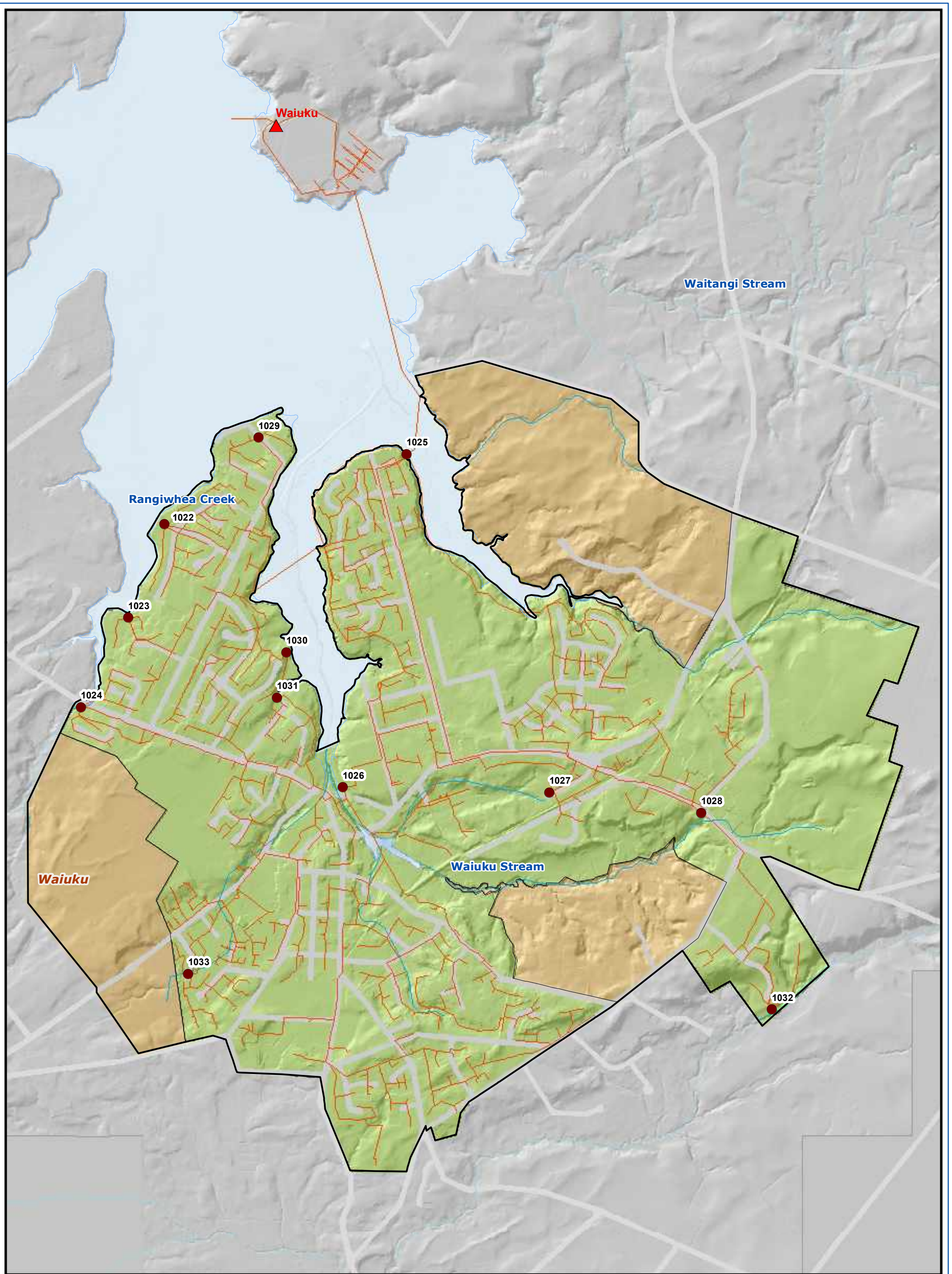
BASE MAP
Clarks Beach Catchment



SCALE:1:11,500 @A3 CREATED BY: ASARIBALI
DATE:08 August 2025 MAP NO: PR24035_2



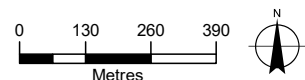
DISCLAIMER
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LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

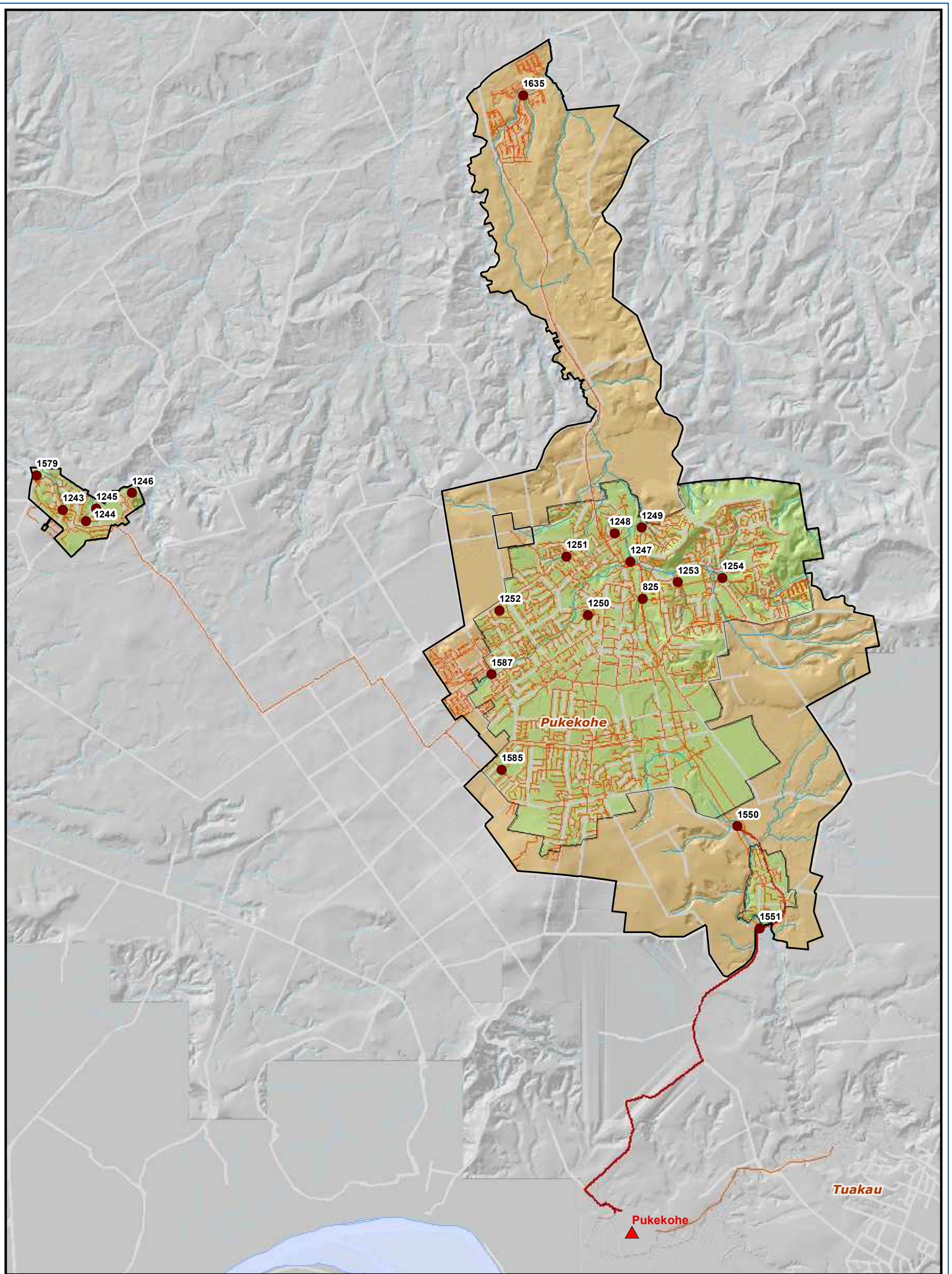
BASE MAP
Waiuku Catchment



SCALE: 1:15,000 @ A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24035_2



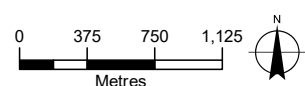
DISCLAIMER
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LEGEND

- Type 1 Operational
- Type 2 Operational
- Local Network Pipe
- Transmission Network Pipe
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

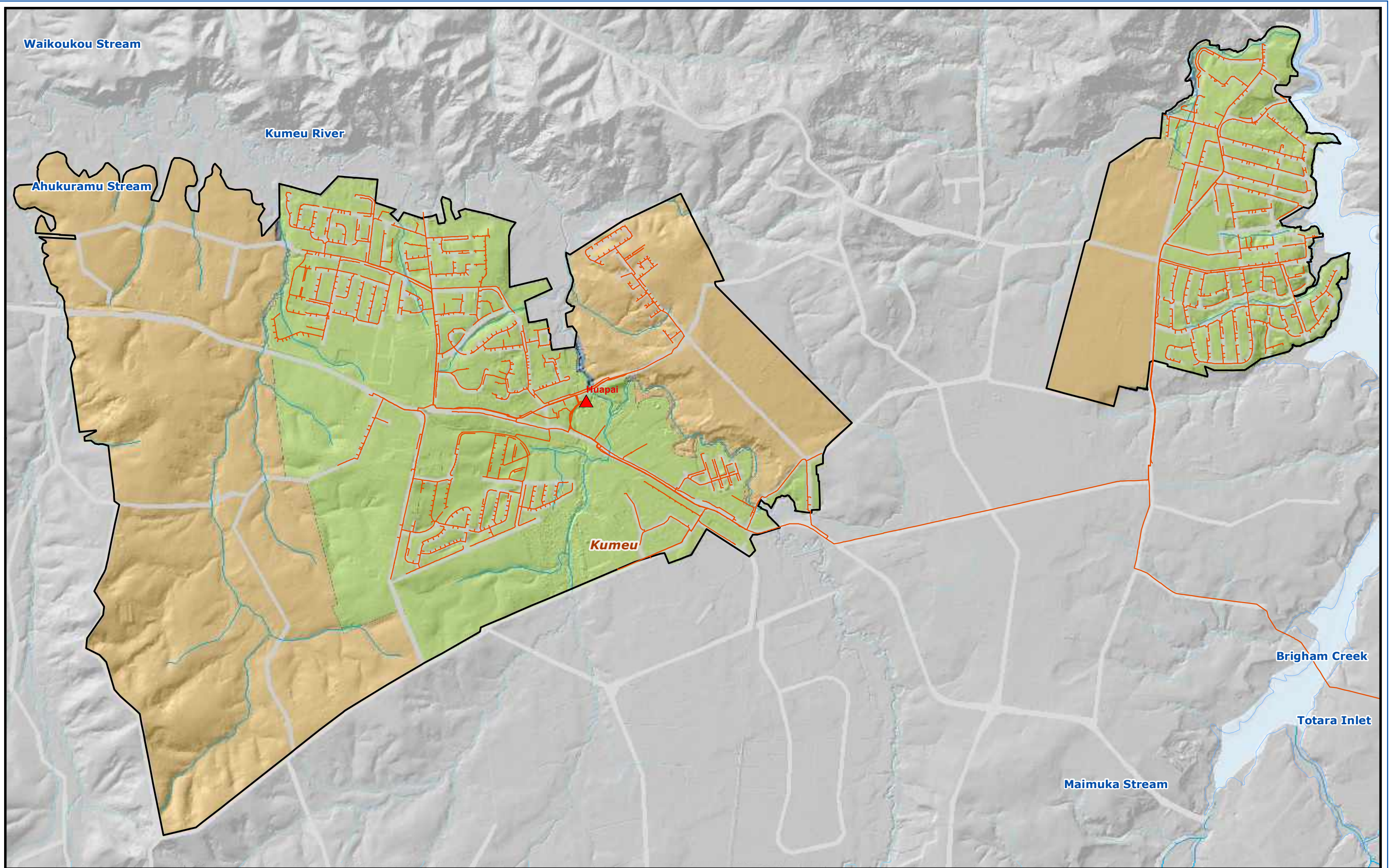
BASE MAP
Pukekohe Catchment



SCALE: 1:42,000 @ A3 CREATED BY: ASARIBALI
DATE: 08 August 2025 MAP NO: PR24035_2



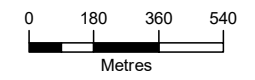
DISCLAIMER
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- LEGEND**
- Type 1 Operational
 - Type 2 Operational
 - ▲ Local Treatment Plant
 - ▲ Transmission Treatment Plant

- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

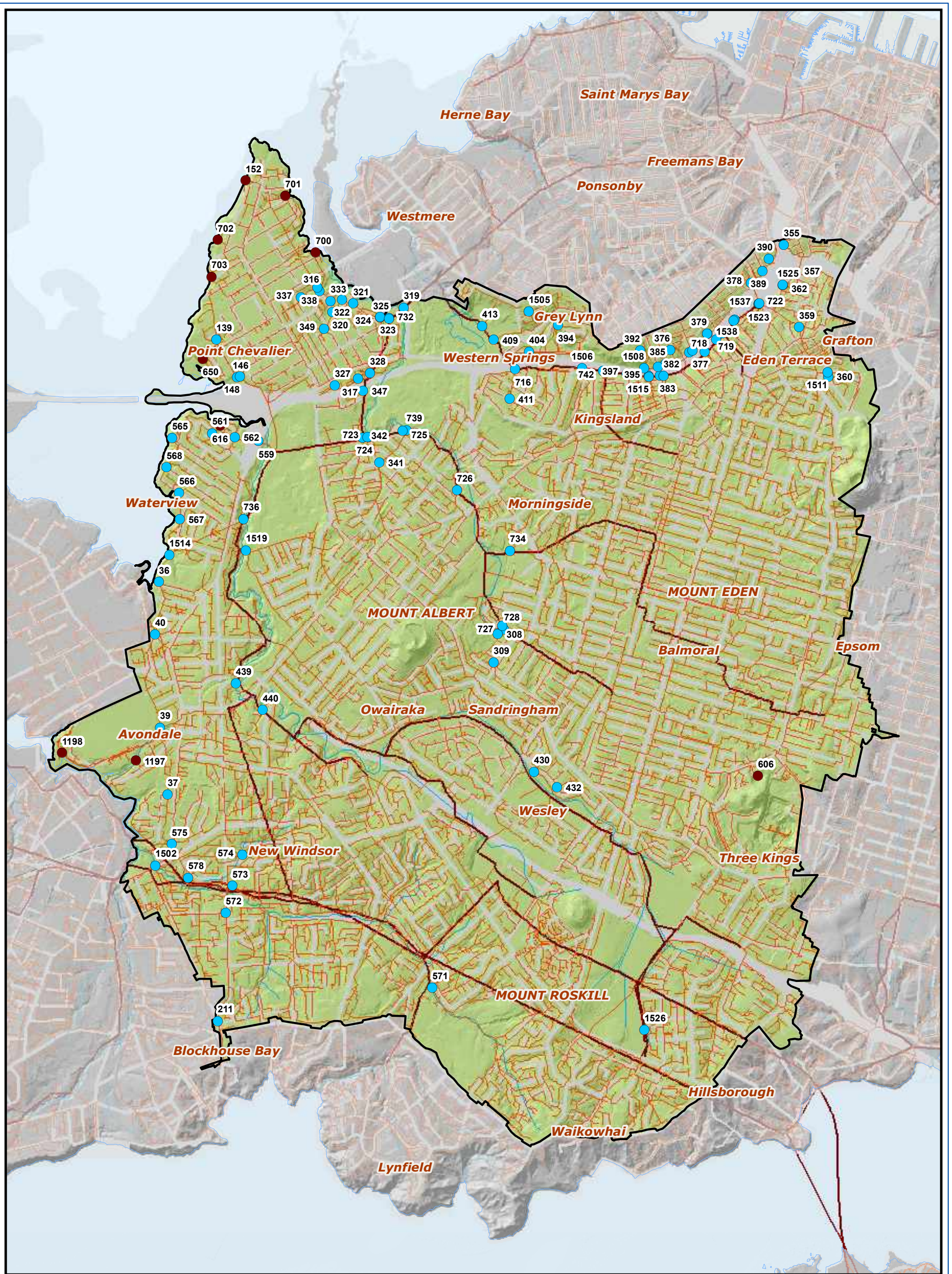
BASE MAP
Kumeu-Huapai-Riverhead Catchment



SCALE: 1:21,000 @A3 CREATED BY: ASARIBALI
 DATE: 08 August 2025 MAP NO: PR24034_2

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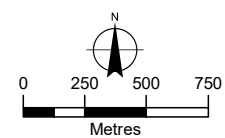
DISCLAIMER
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LEGEND

- Type 1 Operational
- Type 2 Operational
- ▲ Local Treatment Plant
- ▲ Transmission Treatment Plant
- Local Network Pipe
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

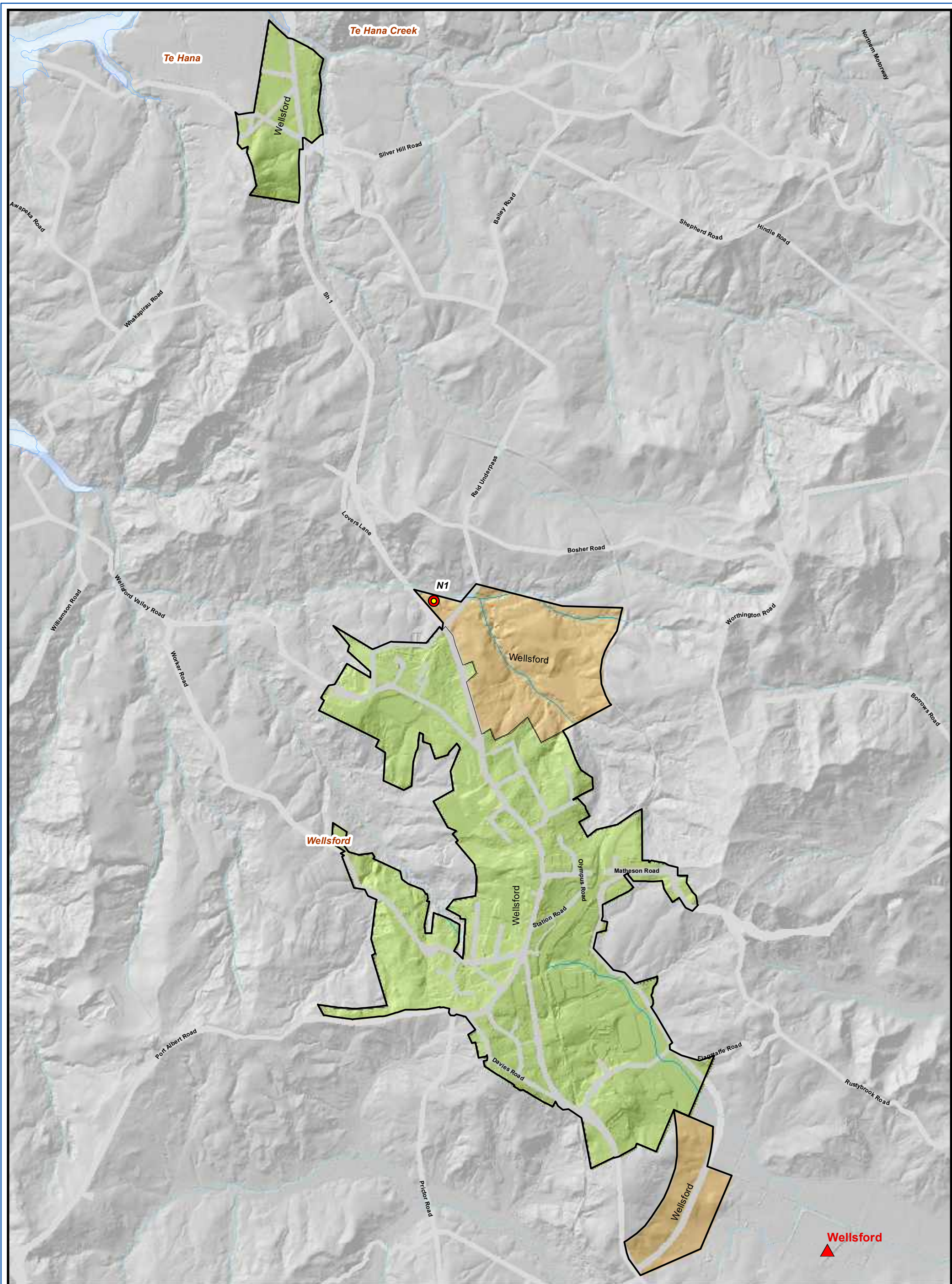
BASE MAP
Western Isthmus (CI) Catchment



SCALE: 1:30,600 @A3 CREATED BY: ASARIBALI
 DATE: 11 August 2025 MAP NO: PR24035_2

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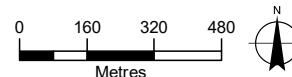


LEGEND

- Proposed Future Overflow Location
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)
- WWLT_Proposed
- Transmission Network Pipe

PROPOSED ASSETS MAP

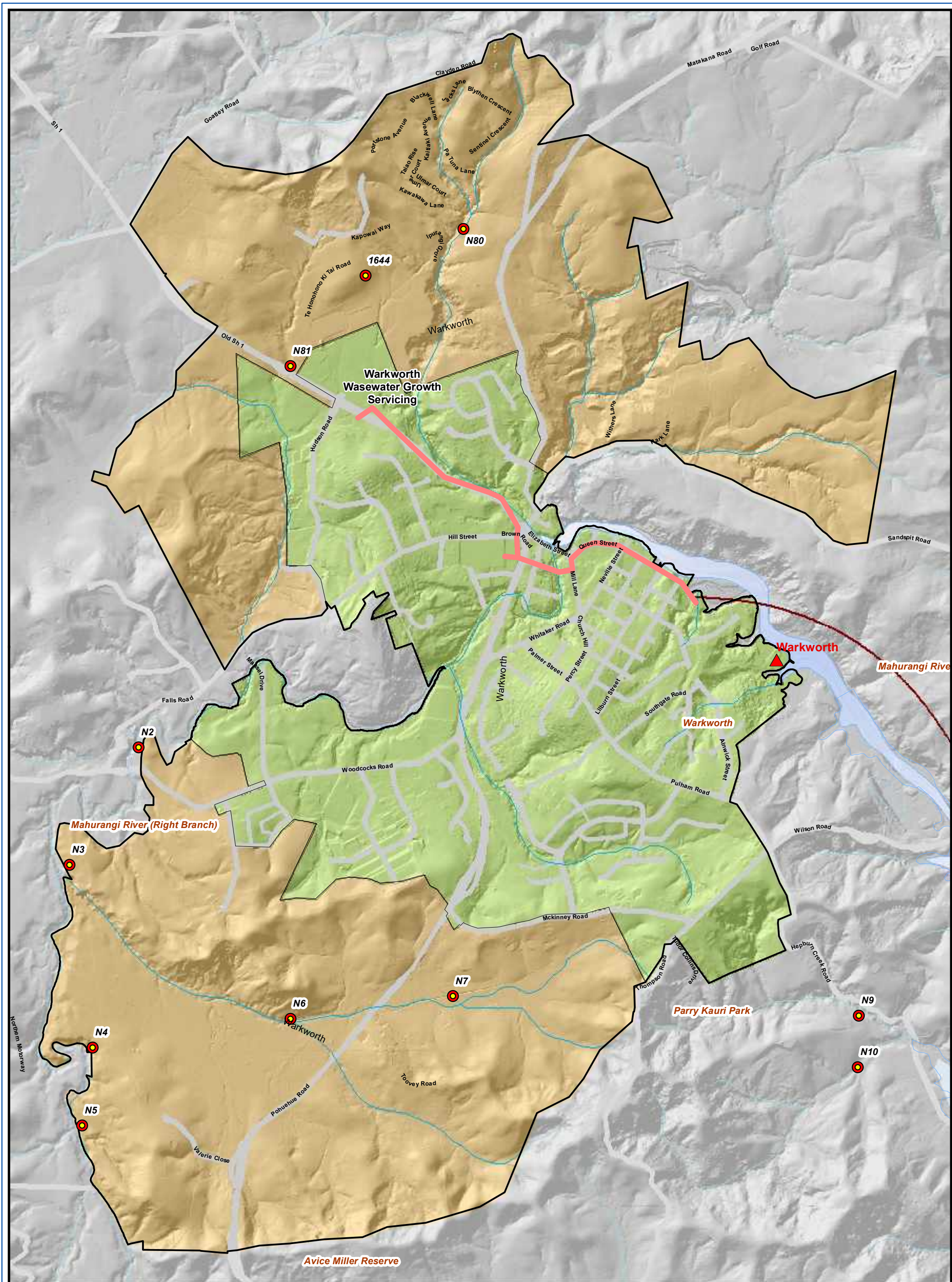
Wellsford Catchment



SCALE: 1:18,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25035_03



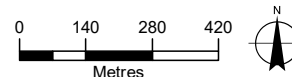
DISCLAIMER
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LEGEND

- Proposed Future Overflow Location
- Existing Urban Area (as defined in NDC)
- WWLT_Proposed
- Indicative Future Urban Area (as defined in NDC)
- Transmission Network Pipe

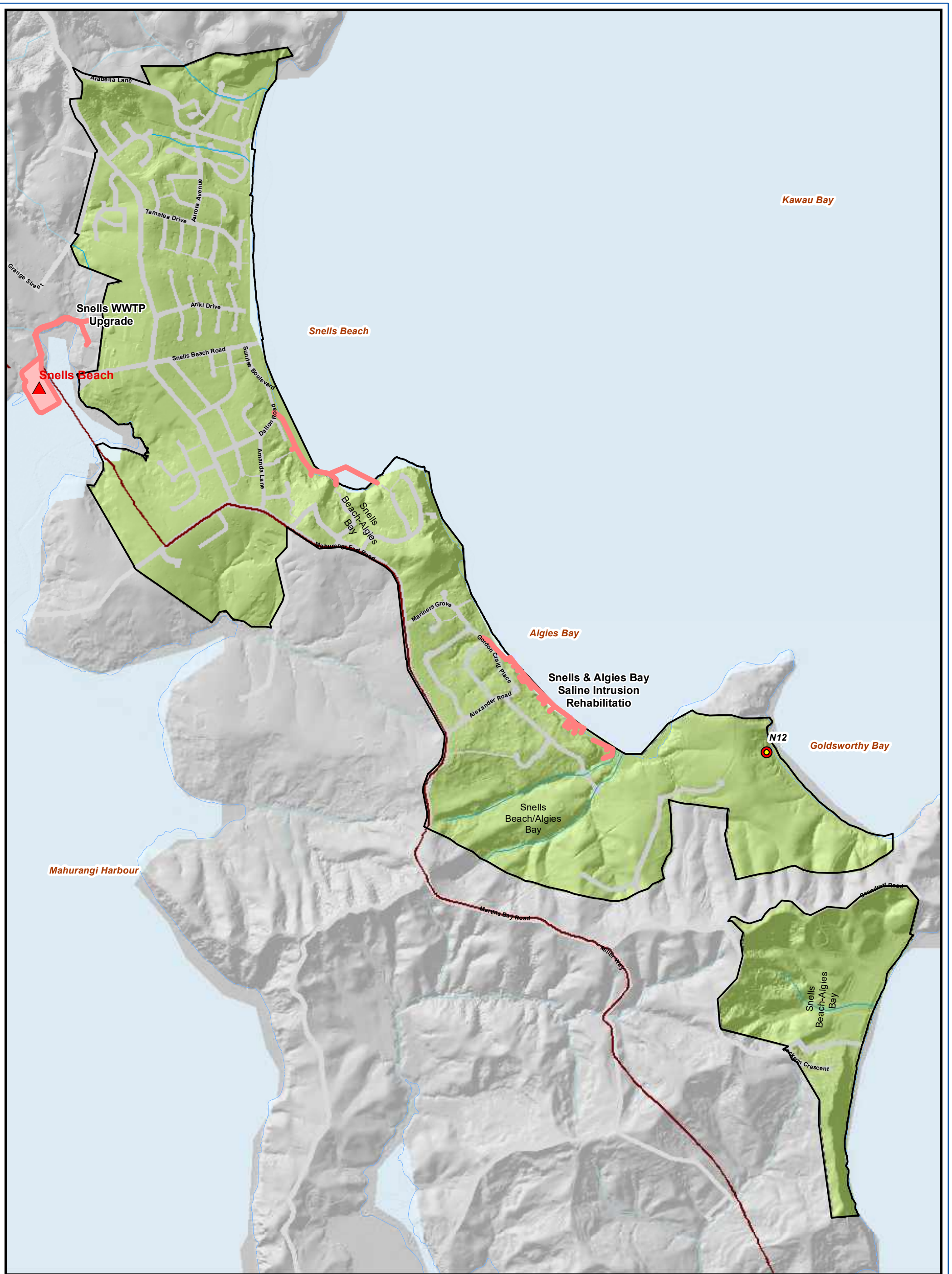
PROPOSED ASSETS MAP
Warkworth Catchment



SCALE: 1:16,000 @A3 CREATED BY: ASARIBALI
DATE: 21 November 2025 MAP NO: PR25035_03



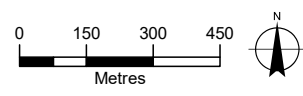
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LEGEND

- Proposed Future Overflow Location
- ▲ WWLT_Proposed
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Area (as defined in NDC)

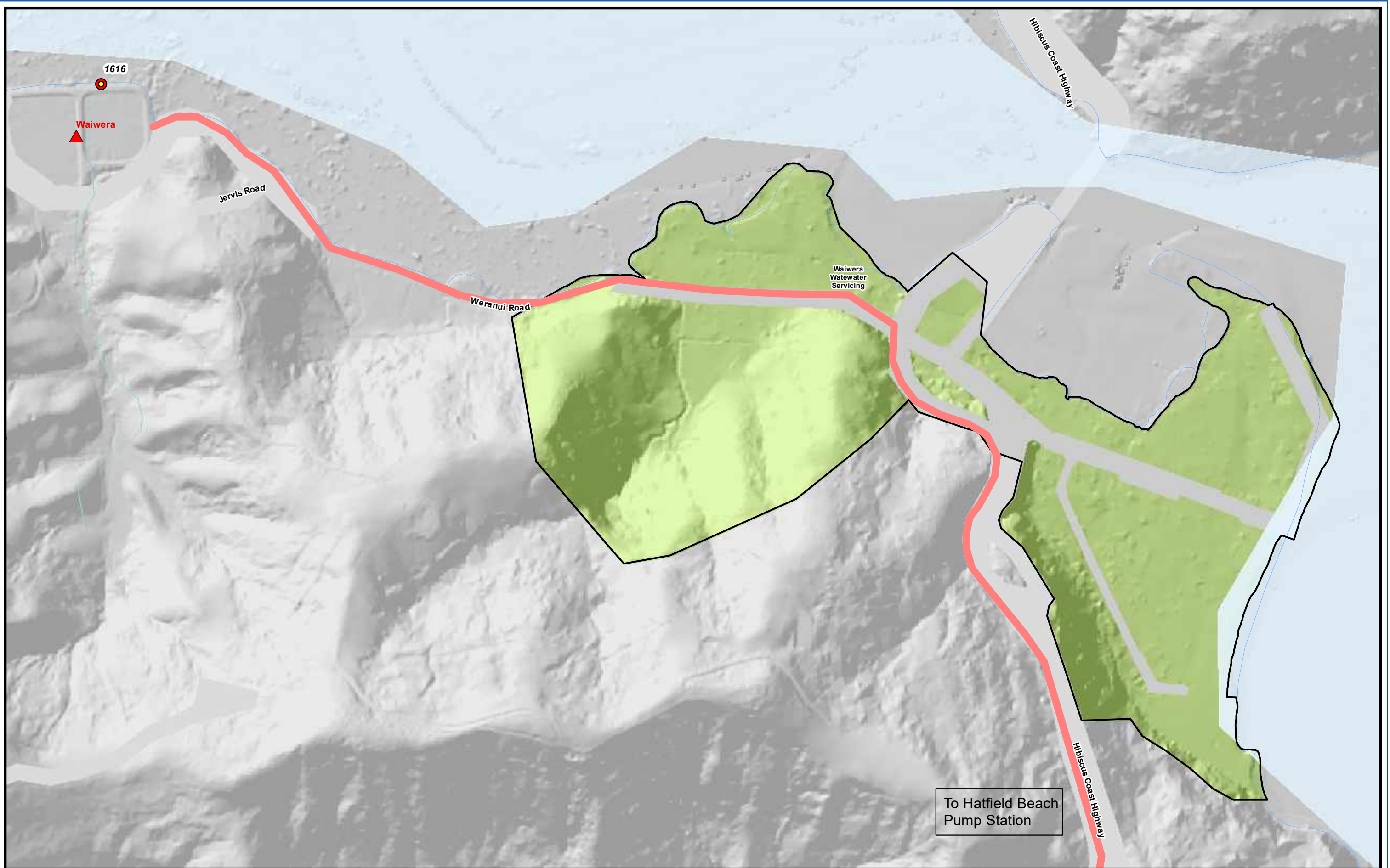
PROPOSED ASSETS MAP
Snells Beach-Algies Bay Catchment



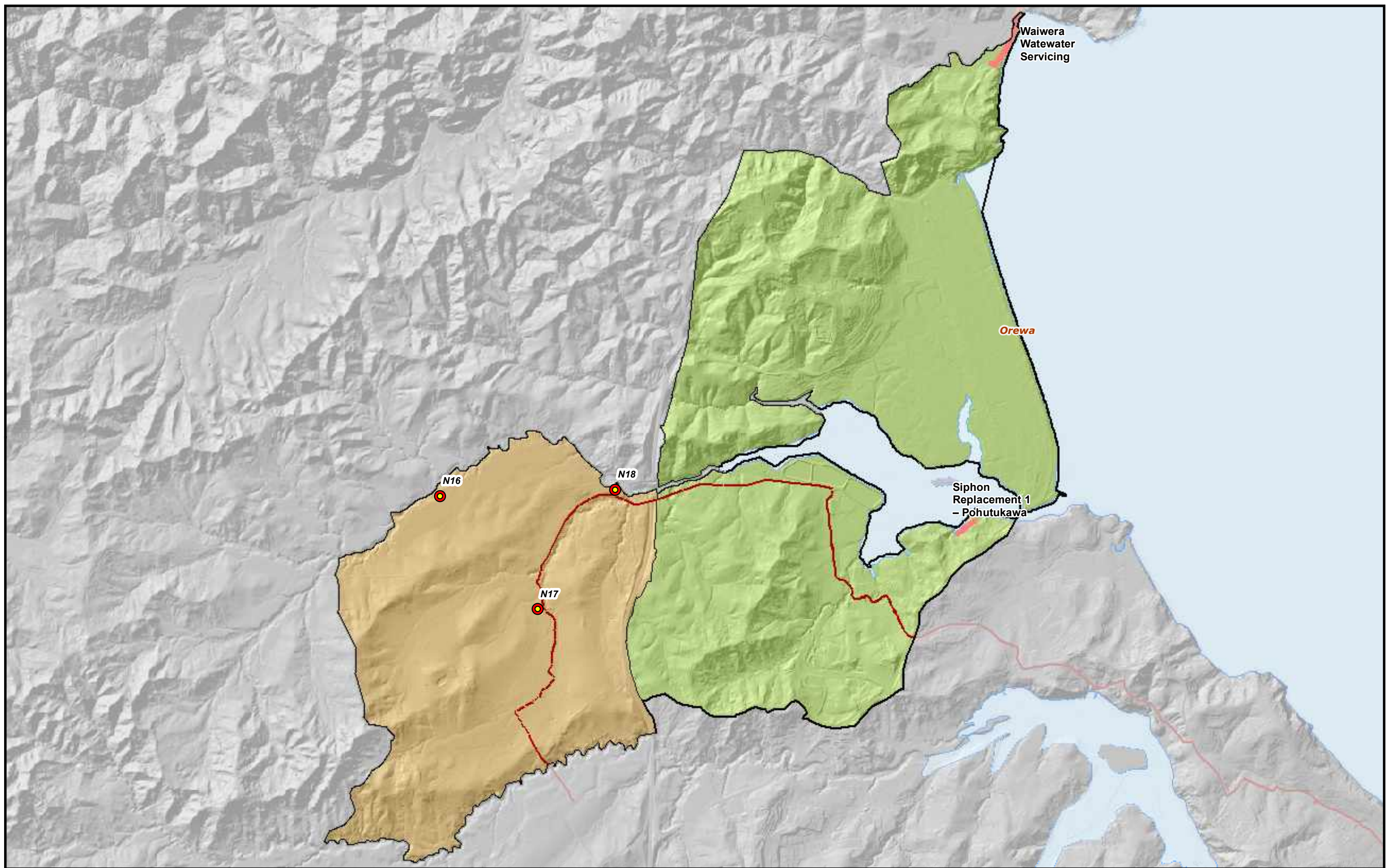
SCALE:1:17,000 @A3 CREATED BY:ASARIBALI
 DATE:21 November 2025 MAP NO:PR25035_03

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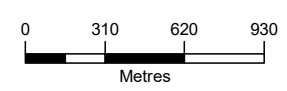


LEGEND	<ul style="list-style-type: none"> Proposed Future Overflow Location Existing Urban Area (as defined in NDC) Indicative Future Urban Area (as defined in NDC) WWLT__Proposed Transmission Network Pipe 	<p>PROPOSED ASSETS MAP</p> <p>Waiwera Catchment</p>	<p>0 40 80 120</p> <p>Metres</p>		<p>SCALE: 1:4,500 @A3 CREATED BY: ASARIBALI</p> <p>DATE: 21 November 2025 MAP NO: PR25034_03</p> <p>Watercare An Auckland Council Organisation</p> <p>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</p>
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- LEGEND**
- Proposed Future Overflow Location
 - Existing Urban Area (as defined in NDC)
 - WWLT__Proposed
 - Indicative Future Urban Areas (as defined in NDC)
 - Transmission Network Pipe

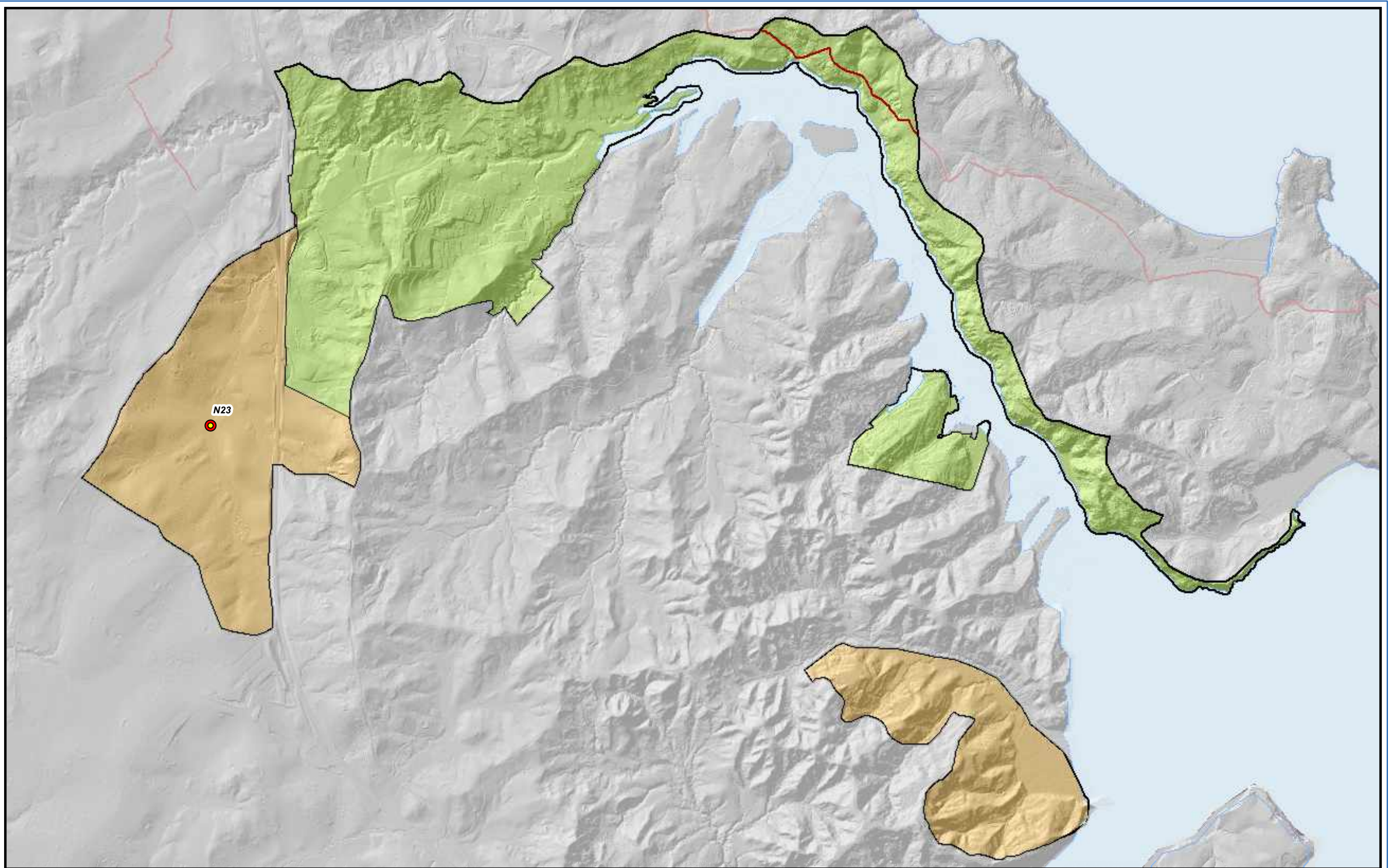
BASE MAP
HBC-Orewa Catchment



SCALE: 1:29,500 @A3 CREATED BY : ASARIBALI
 DATE: 20 November 2025 MAP NO: PR25034_03

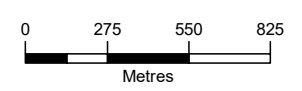
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- LEGEND**
- Proposed Future Overflow Location
 - Existing Urban Area (as defined in NDC)
 - WWLT__Proposed
 - Indicative Future Urban Areas (as defined in NDC)
 - Transmission Network Pipe

BASE MAP
HBC-Weiti Catchment



SCALE: 1:25,500 @A3 CREATED BY : ASARIBALI
 DATE: 20 November 2025 MAP NO: PR25034_03

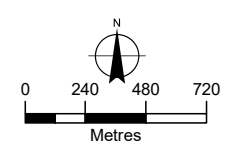
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

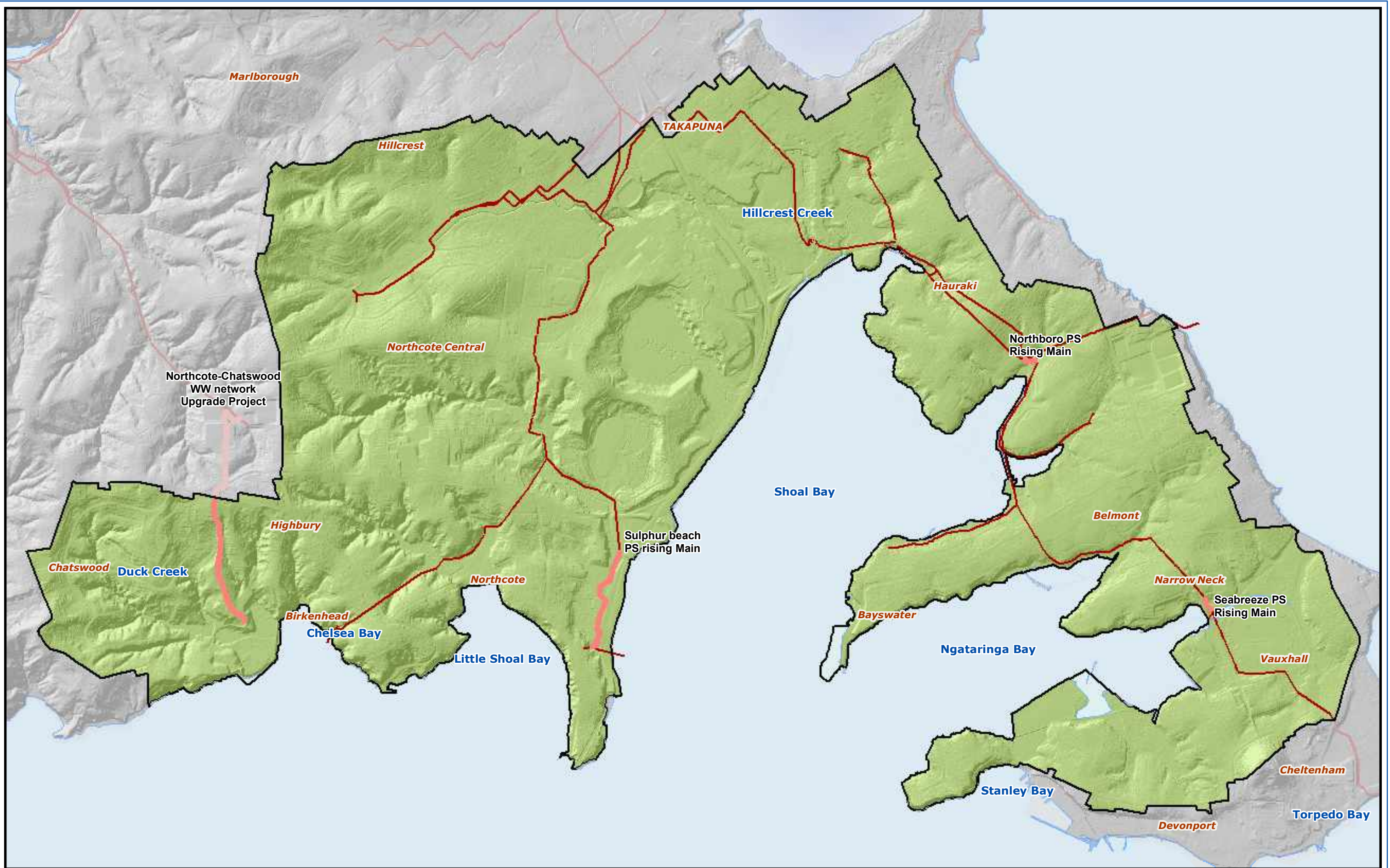
PROPOSED ASSETS MAP
East Coast Bays Catchment



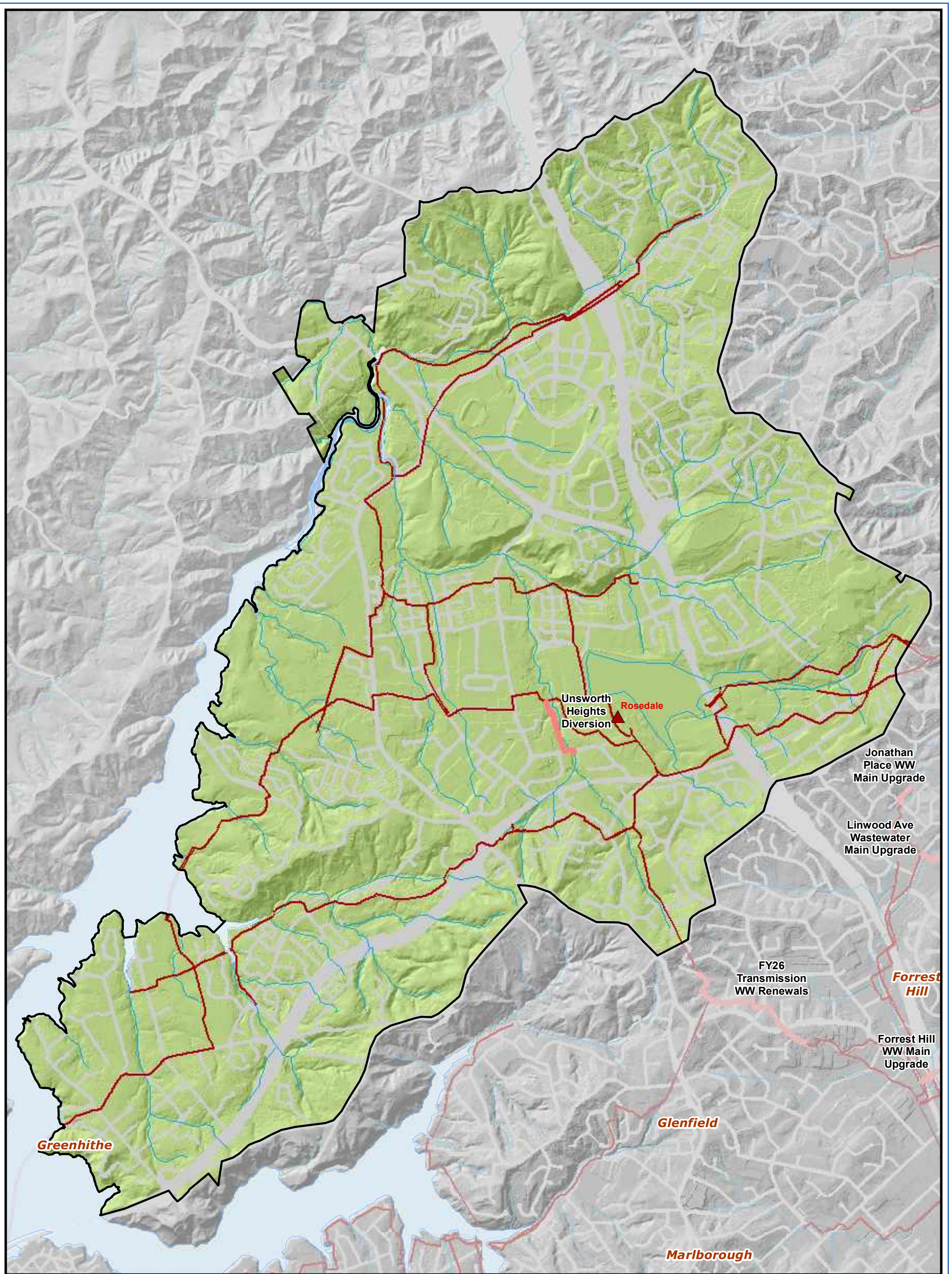
SCALE: 1:30,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25034_03

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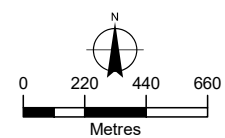


LEGEND		BASE MAP Shoal Bay Catchment	 0 240 480 720 Metres	 N	Proposed Future Overflow Location	Existing Urban Area (as defined in NDC)	SCALE: 1:23,000 @A3 CREATED BY : ASARIBALI DATE: 20 November 2025 MAP NO: PR25034_03 Watercare An Auckland Council Organisation DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.
WWLT__Proposed	Indicative Future Urban Areas (as defined in NDC)						
Transmission Network Pipe							



- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP
Upper Harbour North Catchment



SCALE: 1:27,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25034_03

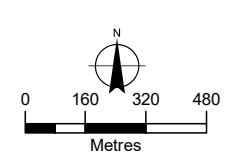
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

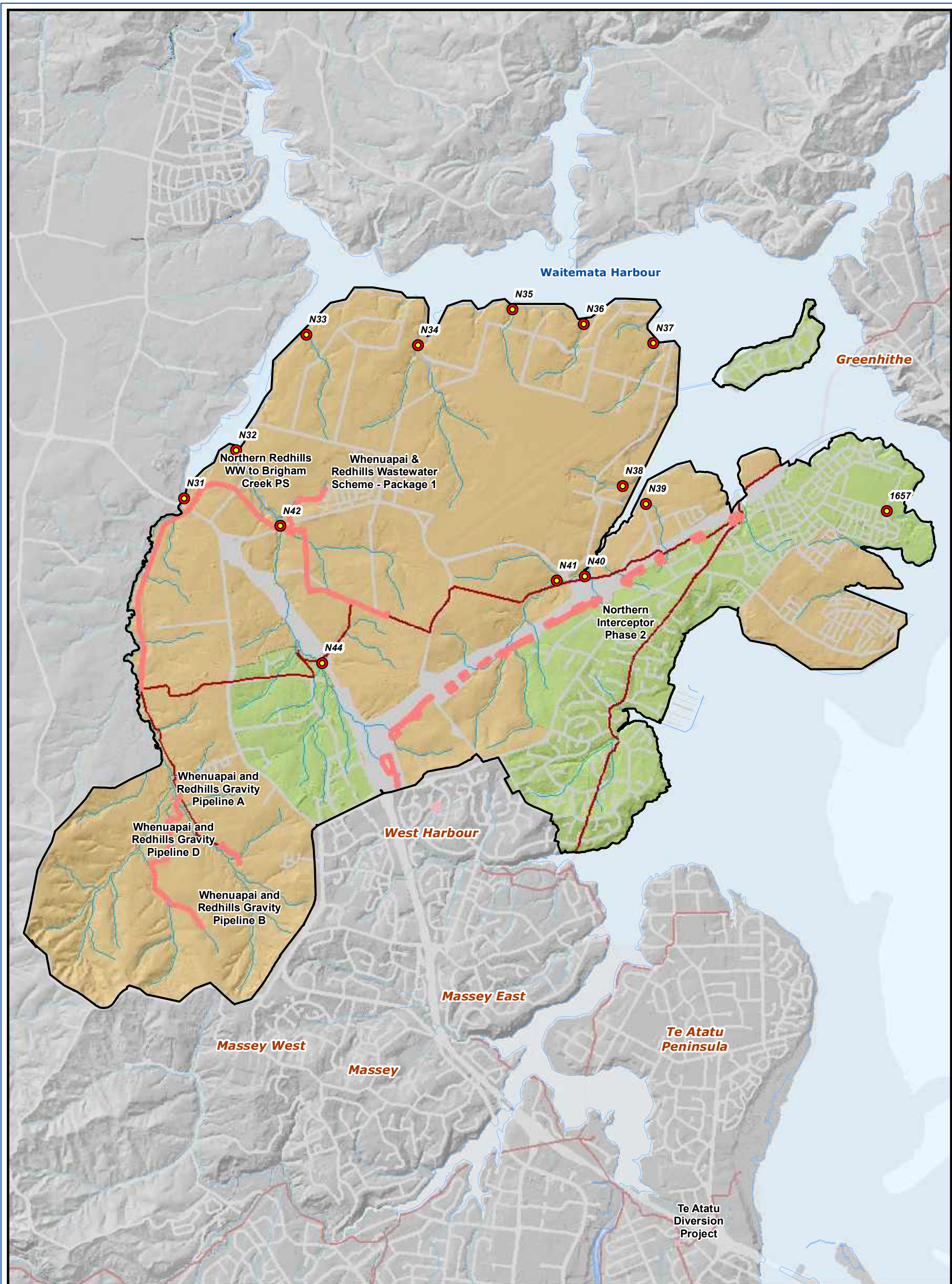
PROPOSED ASSETS MAP
Upper Harbour South Catchment



SCALE: 1:20,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25034_03

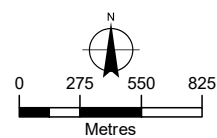
Watercare
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- LEGEND**
- Proposed Future Overflow Location
 - WWT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

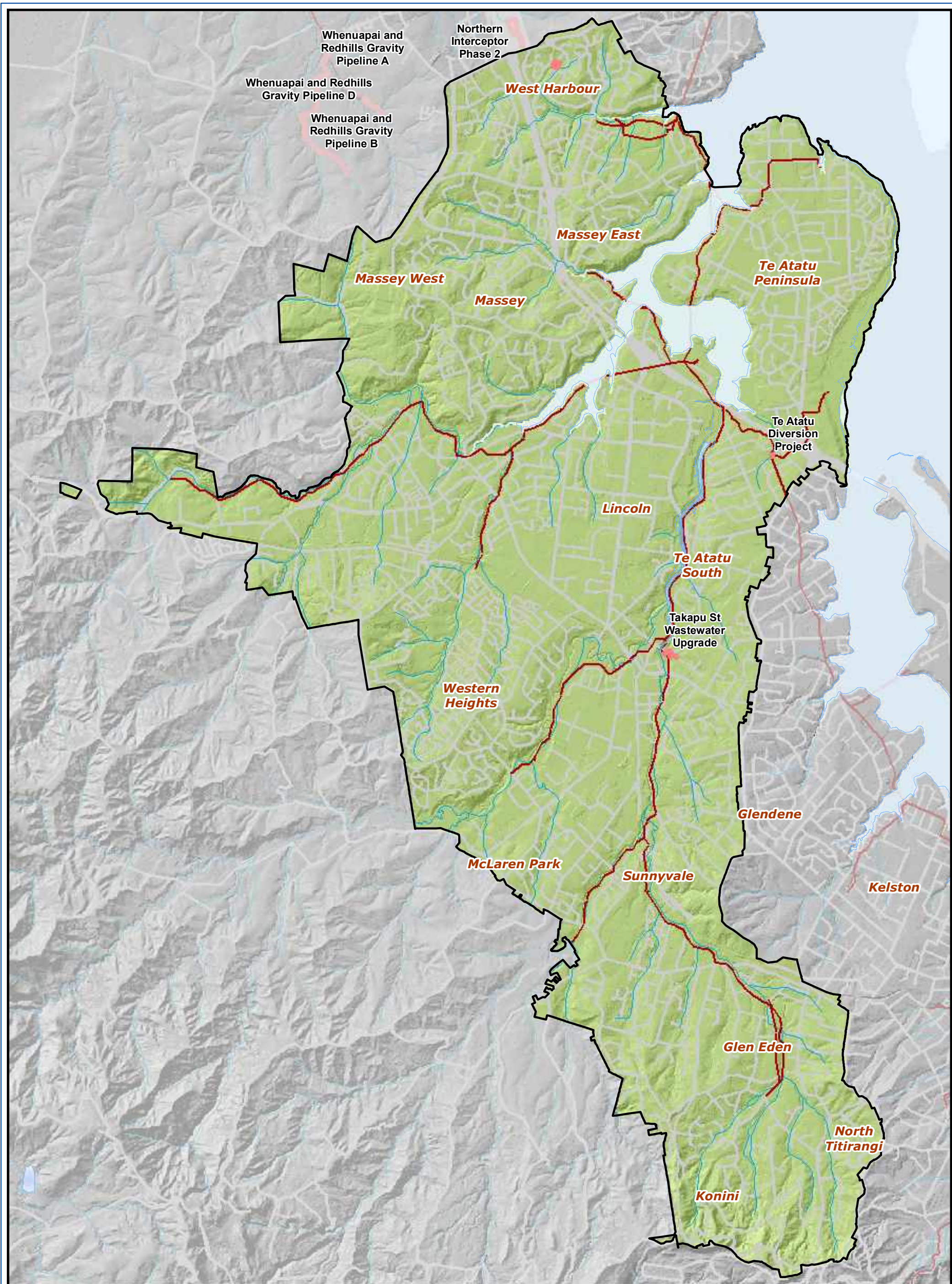
PROPOSED ASSETS MAP
Upper Harbour West Catchment



SCALE: 1:34,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25034_03

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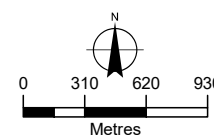
DISCLAIMER
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- LEGEND**
- Proposed Future Overflow Location
 - WWT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP

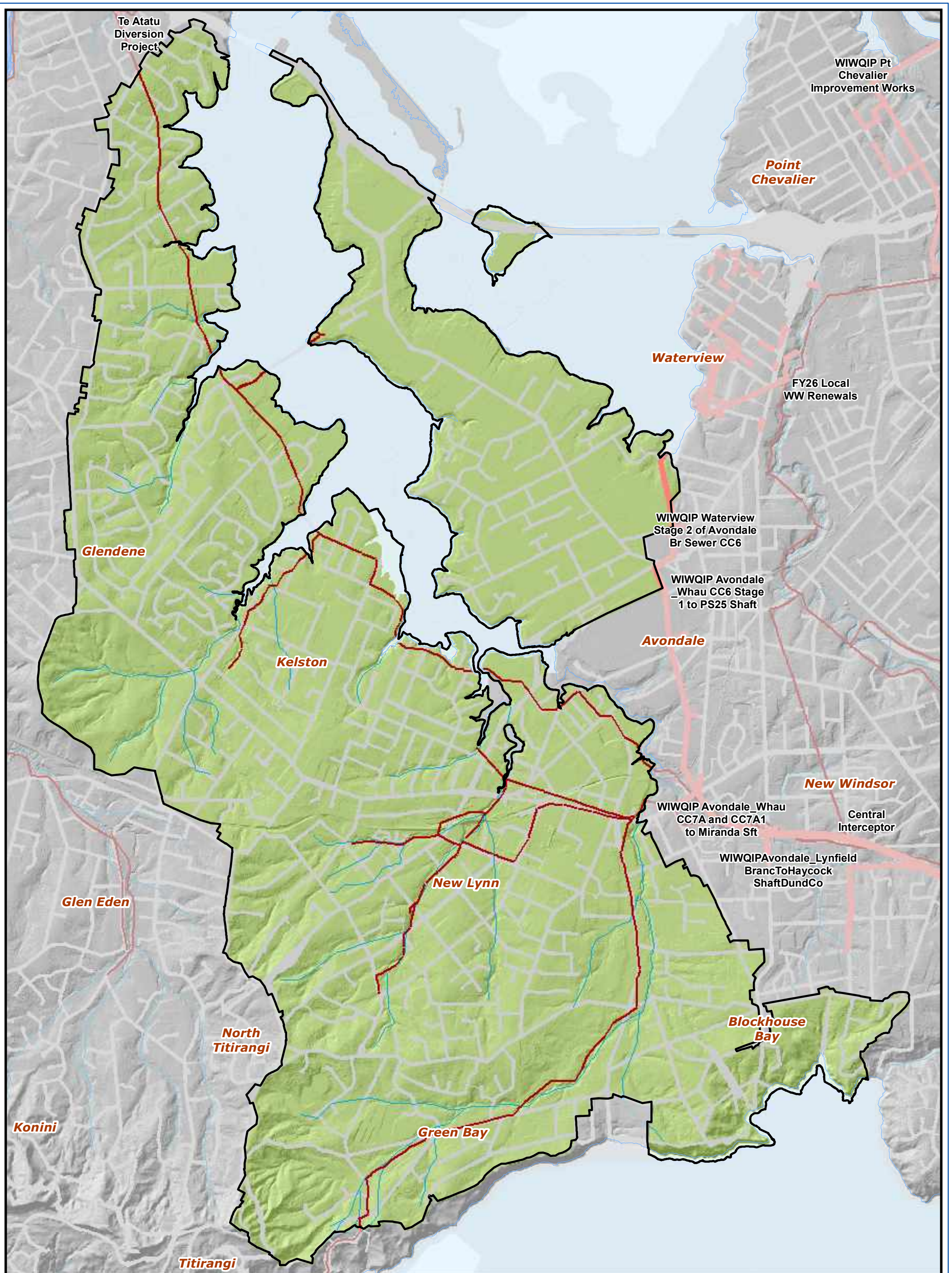
Henderson Creek Catchment



SCALE: 1:38,000 @A3 CREATED BY: ASARIBALI
 DATE: 21 November 2025 MAP NO: PR25034_03



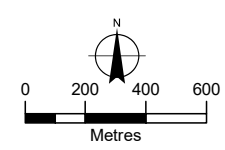
DISCLAIMER
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP

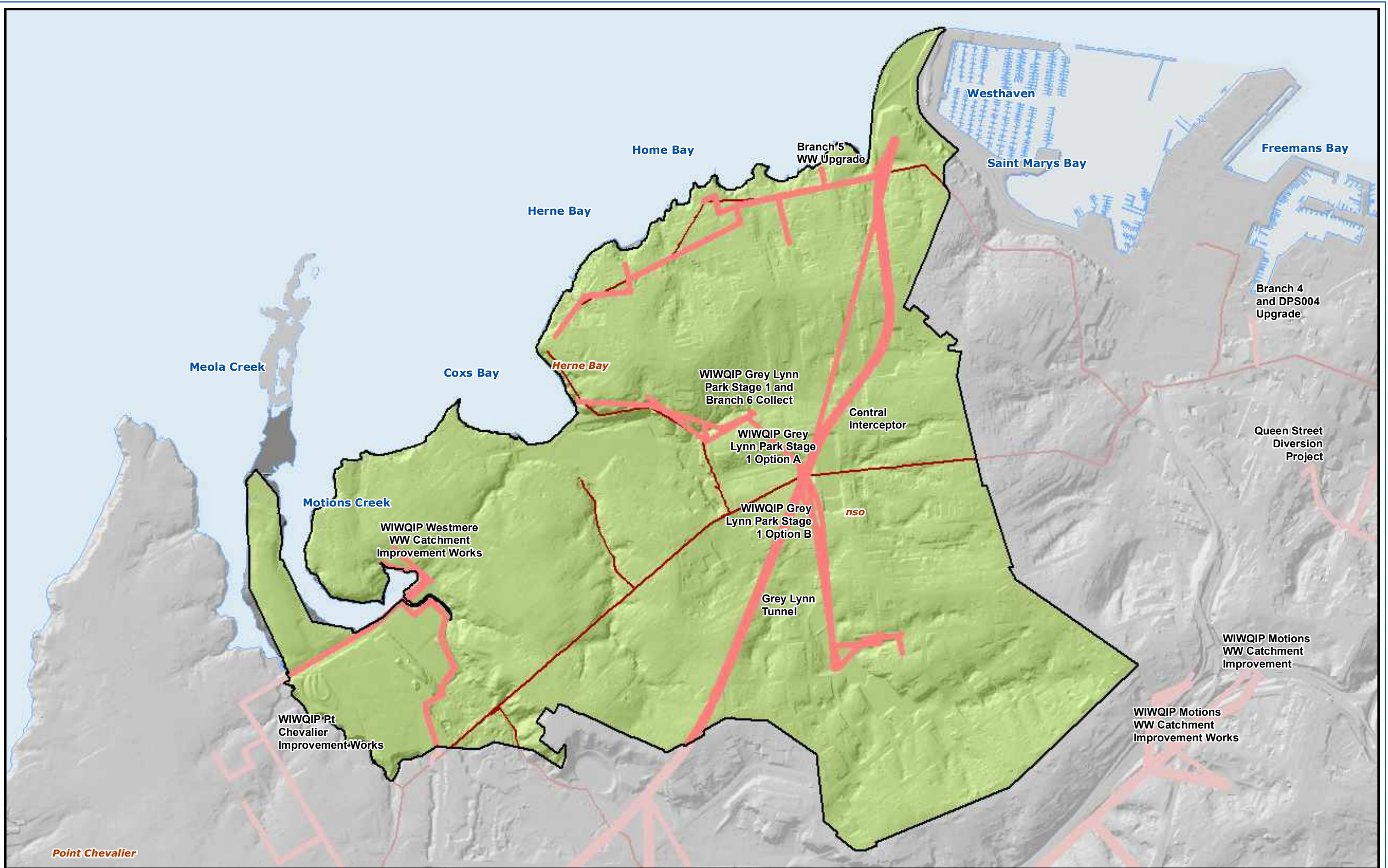
Whau River Catchment



SCALE:1:25,000 @A3 CREATED BY: ASARIBALI
 DATE:21 November 2025 MAP NO: PR25034_03

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LEGEND

- Proposed Future Overflow Location
- WWLT__Proposed
- Transmission Network Pipe
- Existing Urban Area (as defined in NDC)
- Indicative Future Urban Areas (as defined in NDC)

BASE MAP
Coxs Bay Catchment

SCALE: 1:15,000 @A3 CREATED BY : ASARIBALI
DATE: 20 November 2025 MAP NO: PR25034_03

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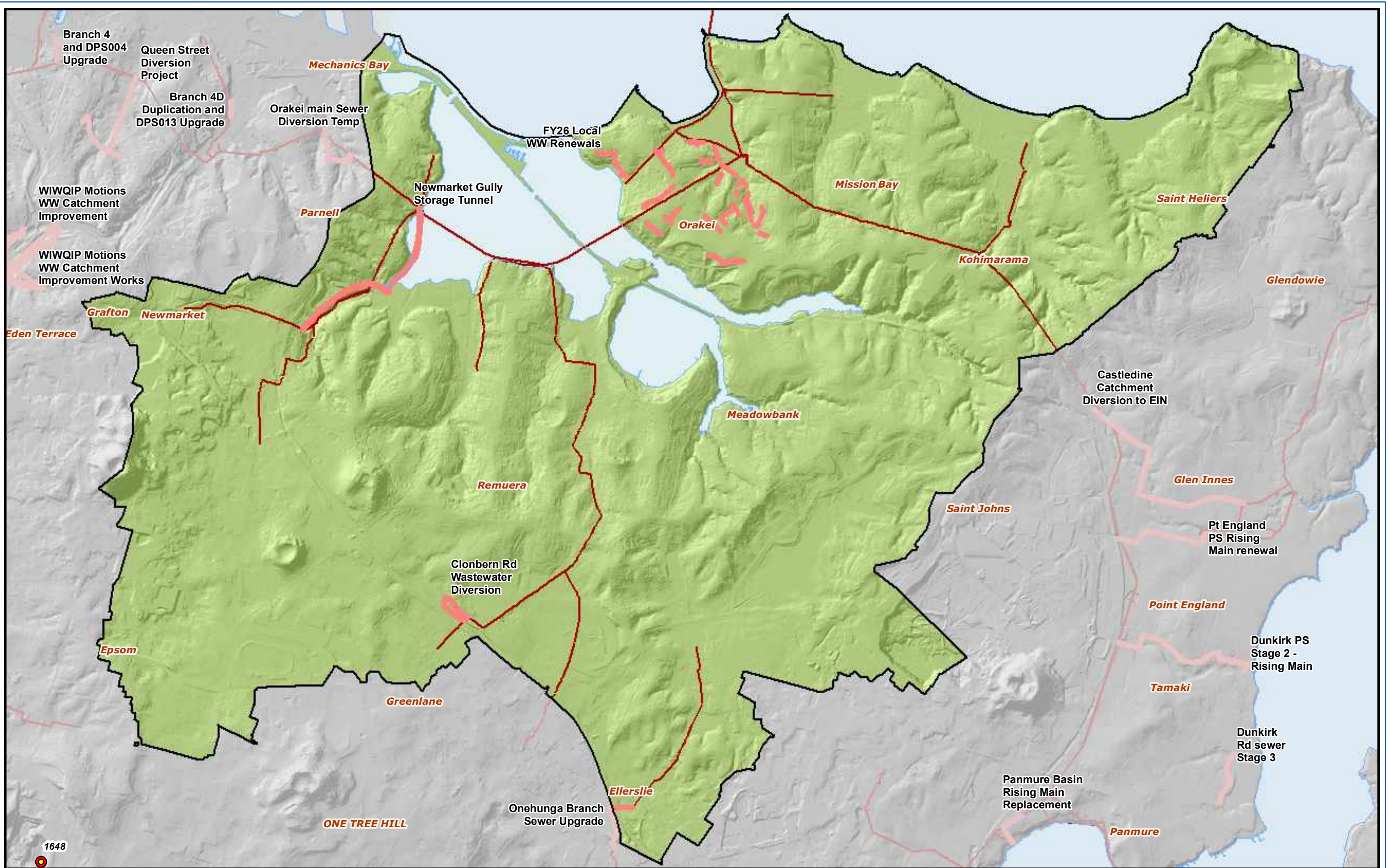
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0 160 320 480
Metres

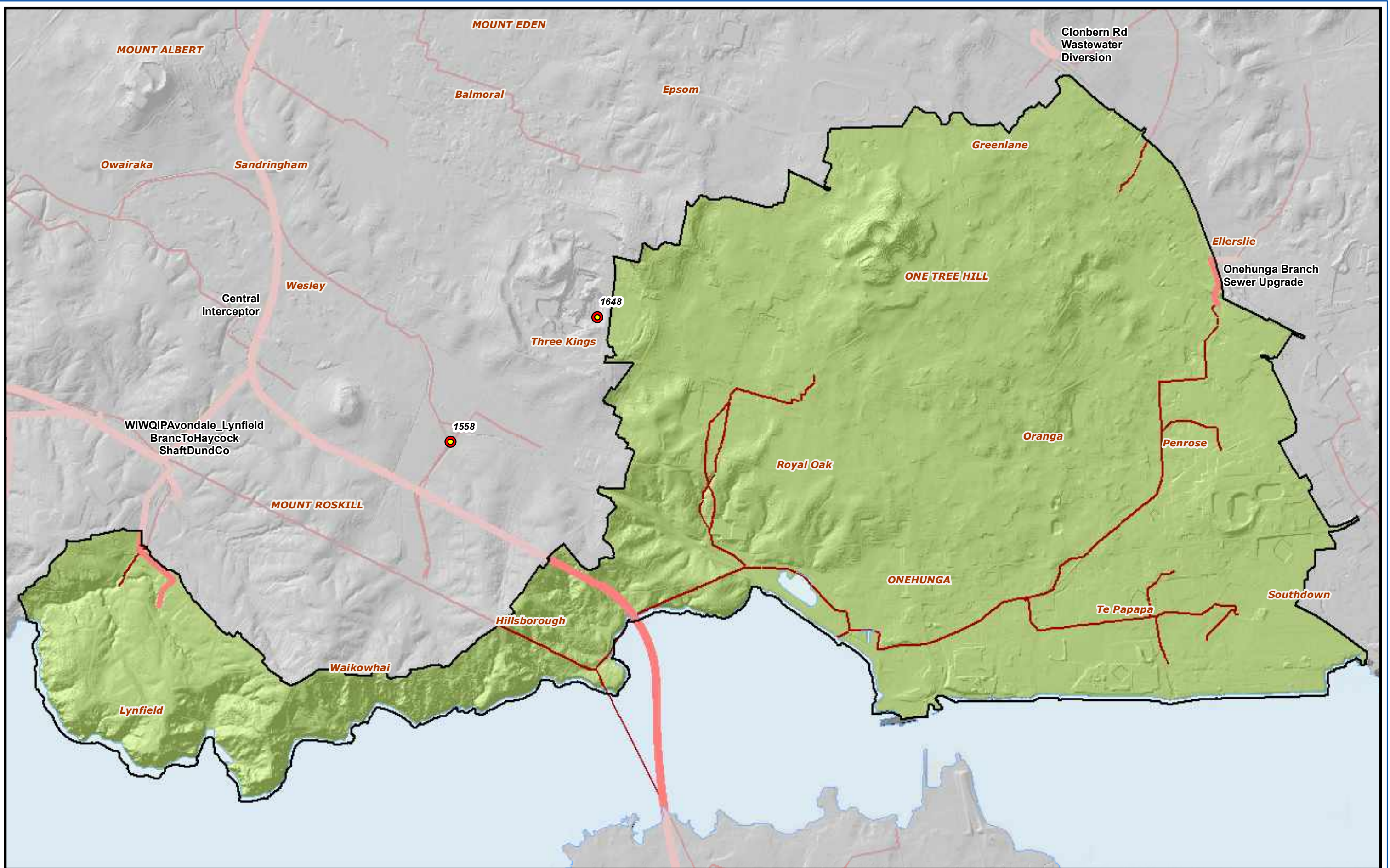
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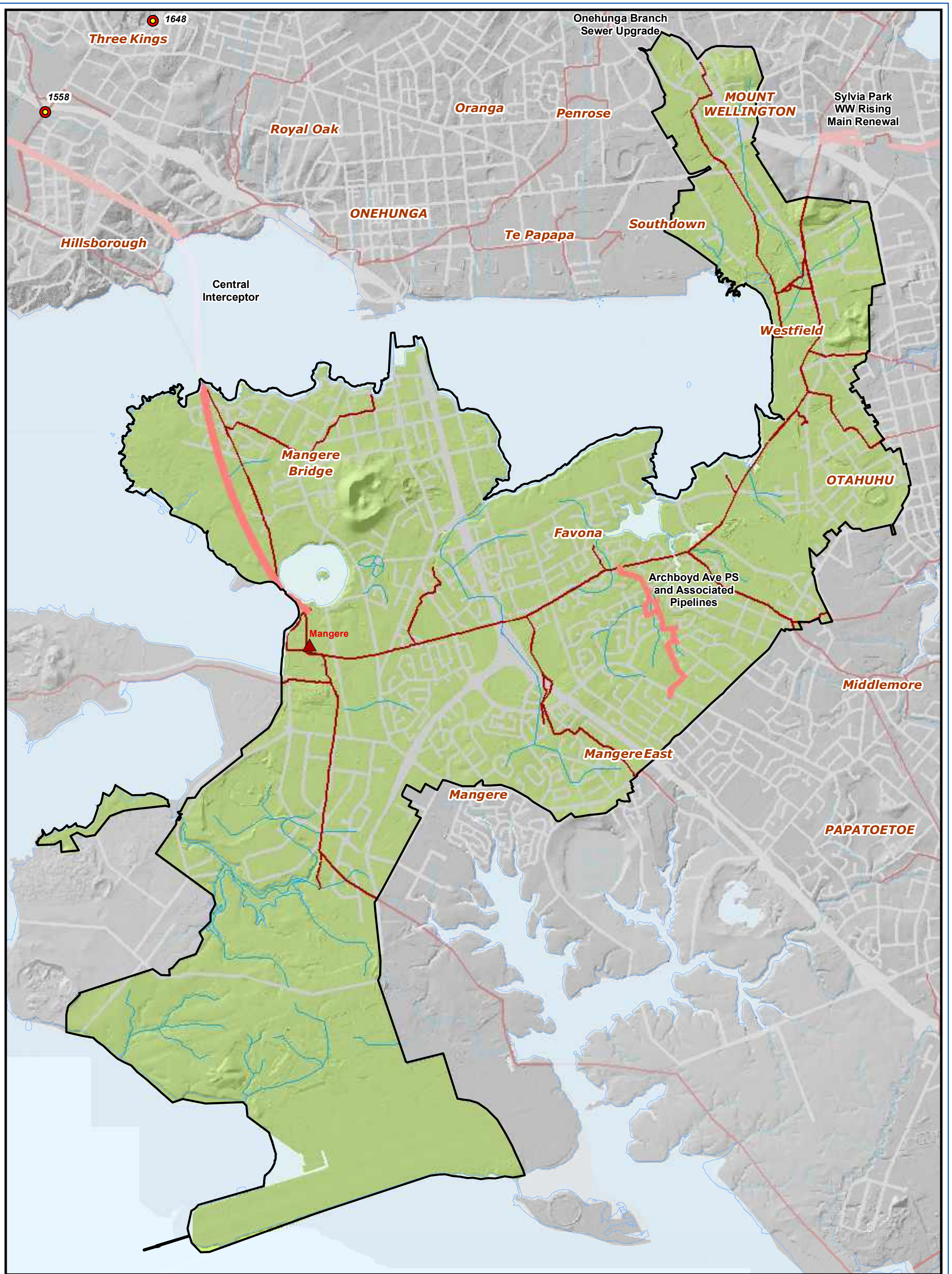
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	Proposed Future Overflow Location					Existing Urban Area (as defined in NDC)
	WWLT_Proposed					Indicative Future Urban Areas (as defined in NDC)
	Transmission Network Pipe					



LEGEND		BASE MAP		SCALE: 1:28,000 @A3 CREATED BY : ASARIBALI DATE: 20 November 2025 MAP NO: PR25034_03	
	Proposed Future Overflow Location		Existing Urban Area (as defined in NDC)	 	
	WWLT__Proposed		Indicative Future Urban Areas (as defined in NDC)		
	Transmission Network Pipe				
Hobson Bay Catchment				 <small>Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small>	



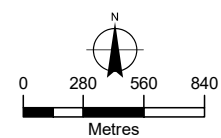
LEGEND	<ul style="list-style-type: none"> ● Proposed Future Overflow Location — WWLT__Proposed — Transmission Network Pipe Existing Urban Area (as defined in NDC) Indicative Future Urban Areas (as defined in NDC) 	<p>BASE MAP</p> <p>Onehunga Catchment</p>	<p>SCALE: 1:26,000 @A3 CREATED BY : ASARIBALI DATE: 20 November 2025 MAP NO: PR25034_03</p> <p>Watercare An Auckland Council Organisation</p> <p><small>DISCLAIMER Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare, the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.</small></p>
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP

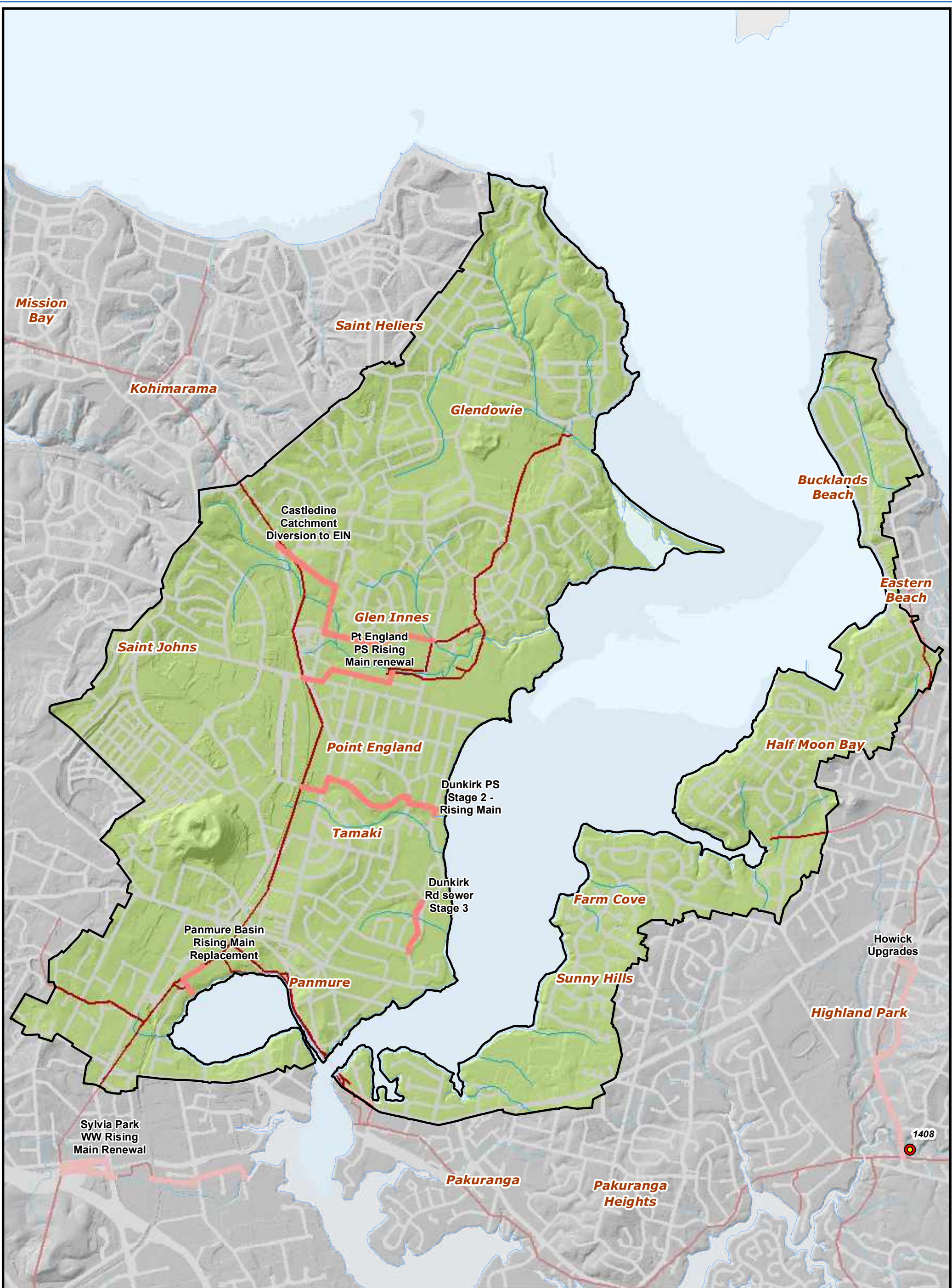
Mangere Catchment



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 DATE: 21 November 2025 MAP NO: PR25034_03

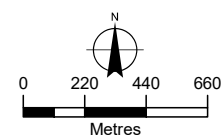
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

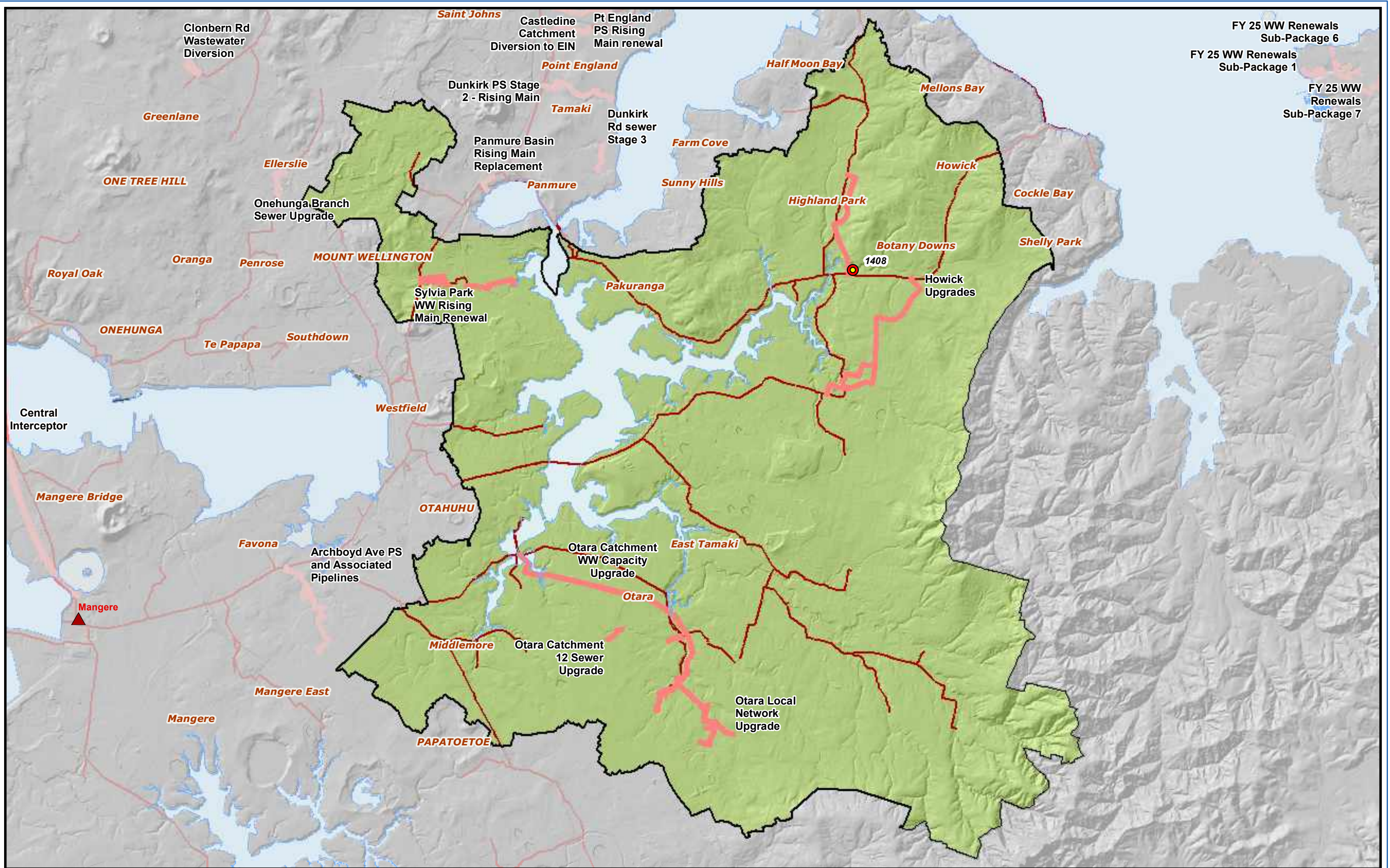
PROPOSED ASSETS MAP
Lower Tamaki River Catchment



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 DATE: 21 November 2025 MAP NO: PR25034_03

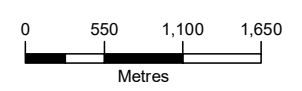
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Areas (as defined in NDC)

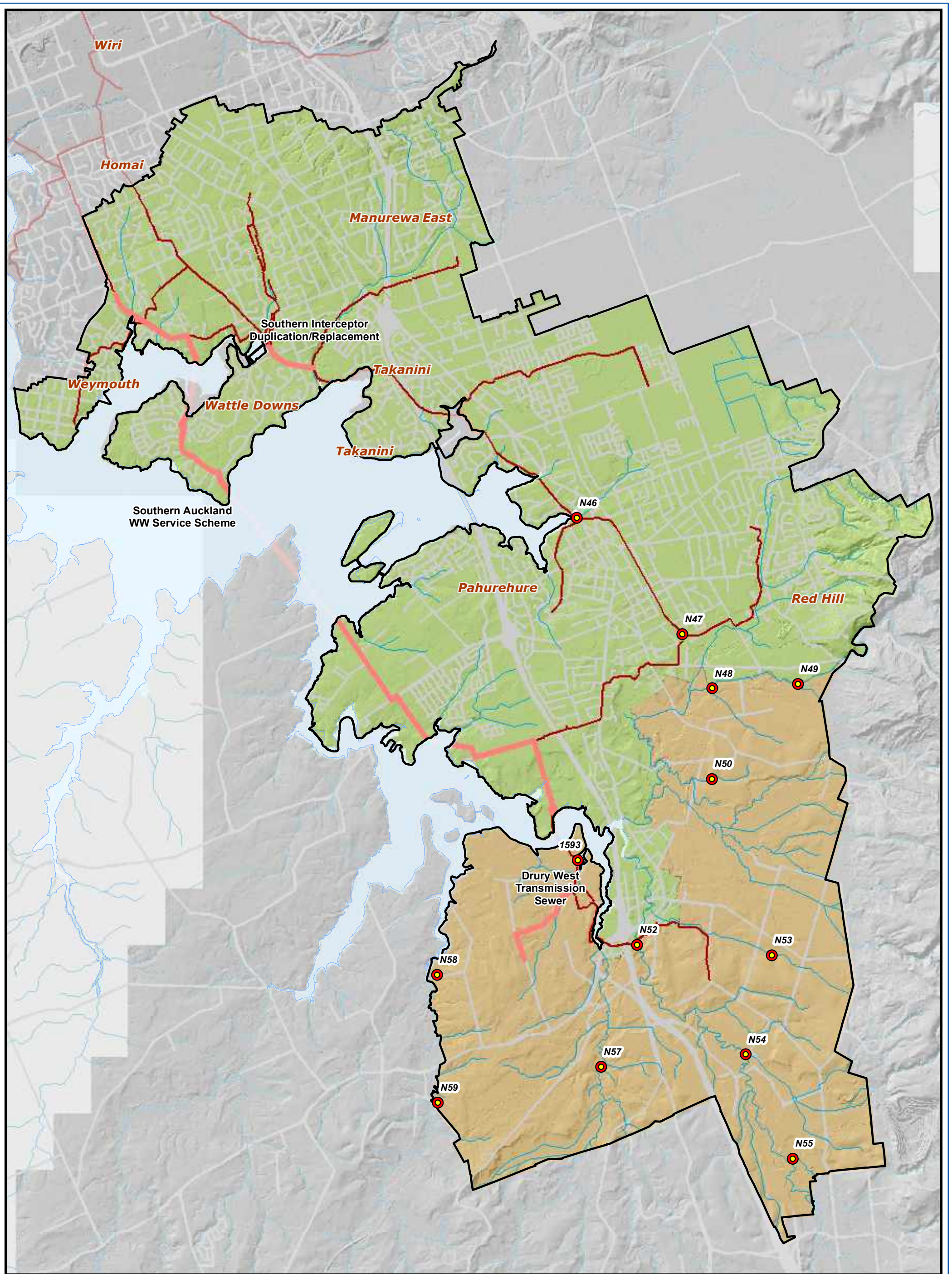
BASE MAP
Upper Tamaki River Catchment



SCALE: 1:53,000 @A3 CREATED BY: ASARIBALI
 DATE: 20 November 2025 MAP NO: PR25034_03

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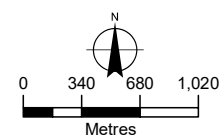
DISCLAIMER
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- LEGEND**
- Proposed Future Overflow Location
 - WWT_Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP

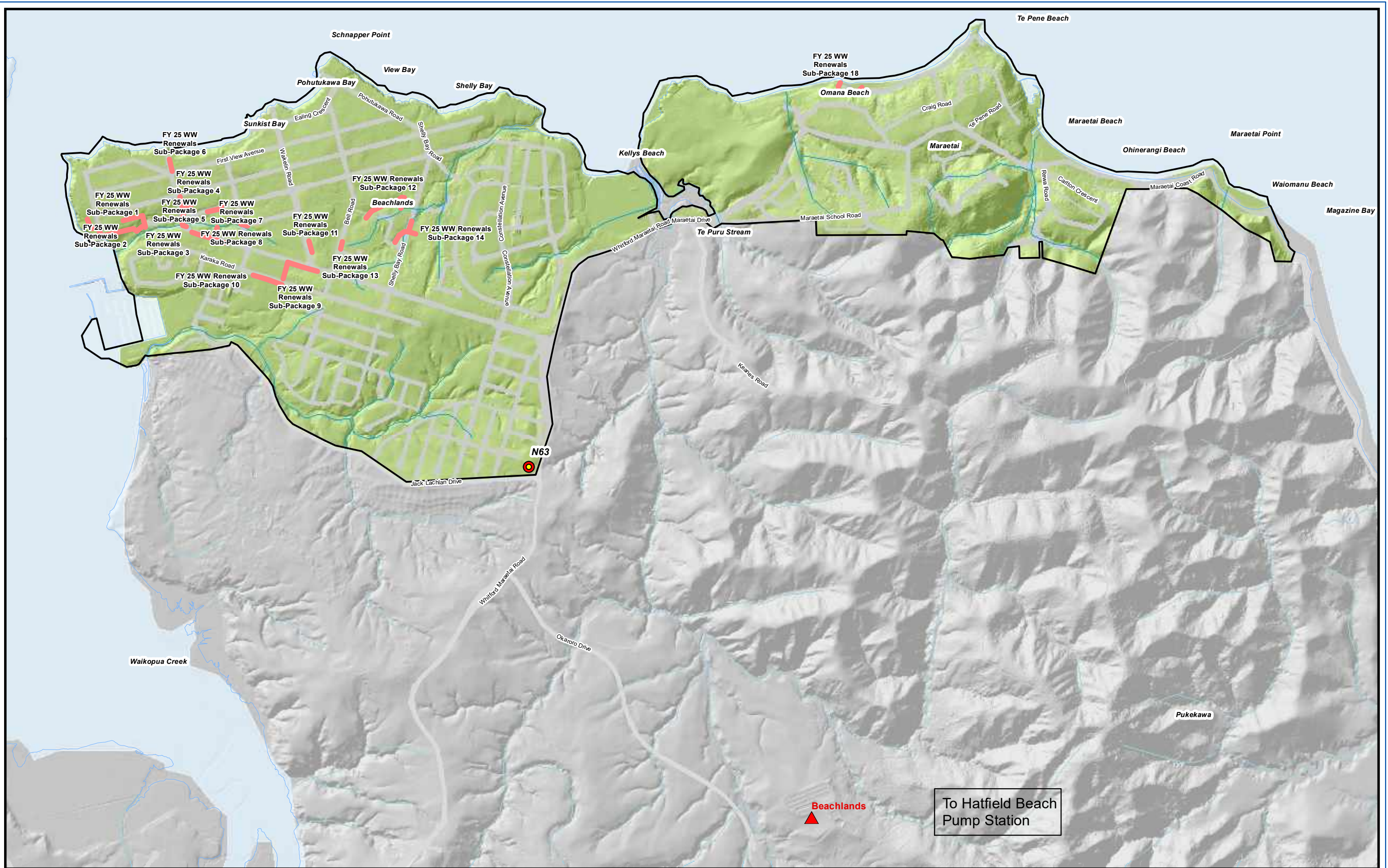
Pahurehure Inlet Catchment



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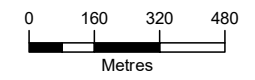
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- LEGEND**
- Proposed Future Overflow Location
 - WWLT__Proposed
 - Transmission Network Pipe
 - Existing Urban Area (as defined in NDC)
 - Indicative Future Urban Area (as defined in NDC)

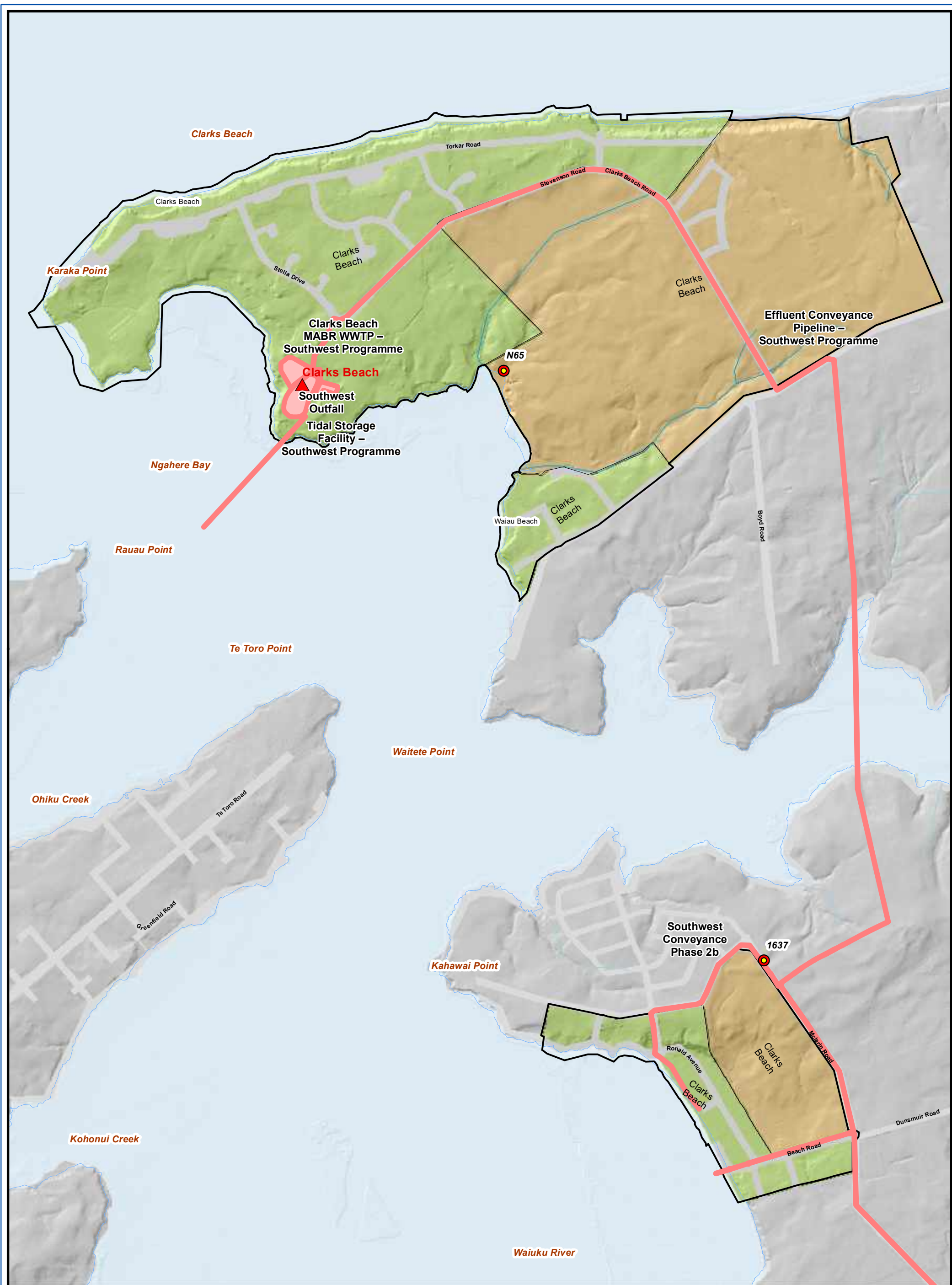
PROPOSED ASSETS MAP
Beachlands-Maraetai Catchment



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 DATE: 21 November 2025 MAP NO: PR25034_03

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LEGEND

- Proposed Future Overflow Location
- Existing Urban Area (as defined in NDC)
- WWLT_Proposed
- Indicative Future Urban Area (as defined in NDC)
- Transmission Network Pipe

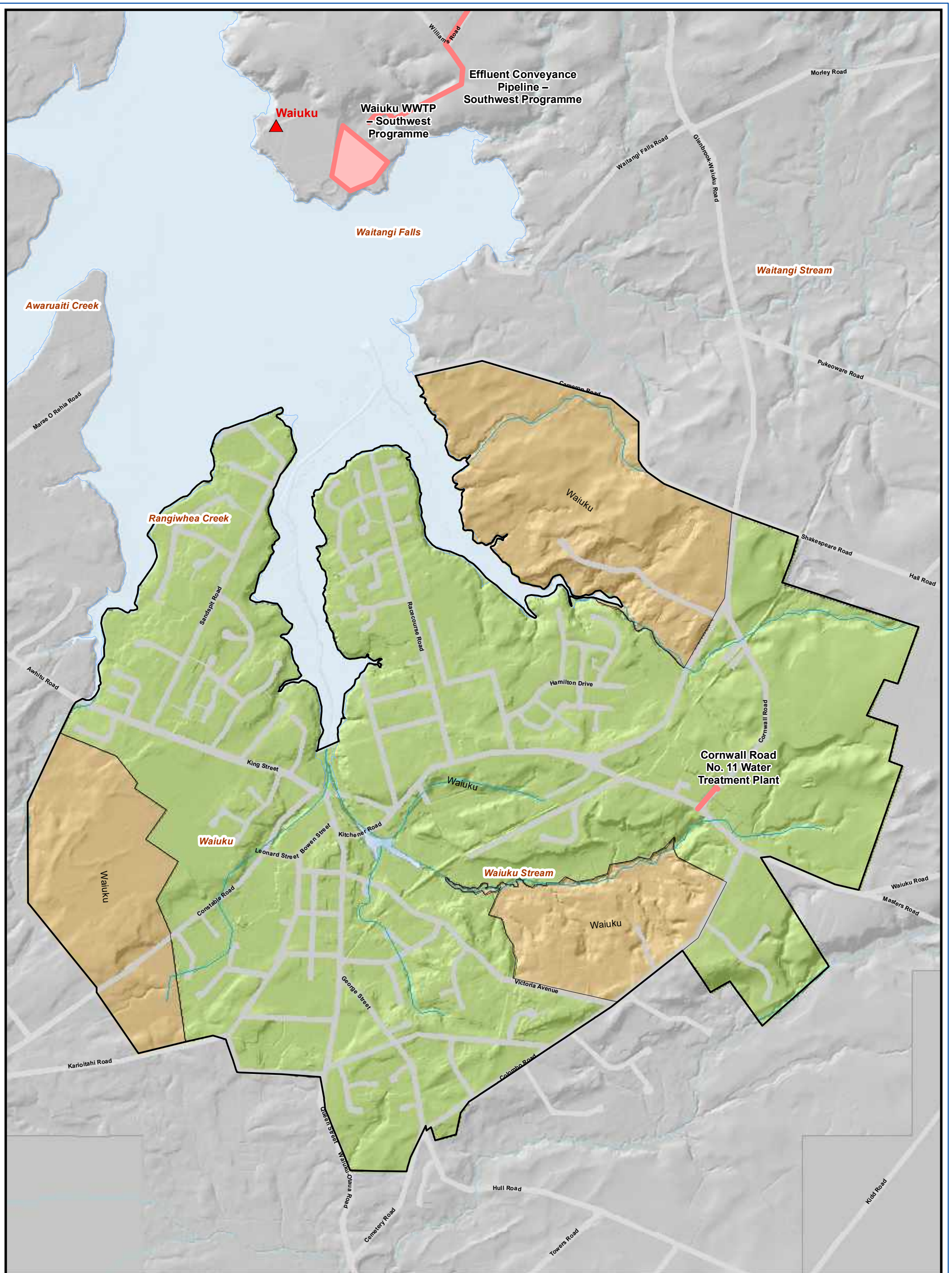
PROPOSED ASSETS MAP
Clarks Beach Catchment



SCALE: 1:11,500 @A3 CREATED BY: ASARIBALI
DATE: 21 November 2025 MAP NO: PR25035_03



DISCLAIMER
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LEGEND

- Proposed Future Overflow Location
- Existing Urban Area (as defined in NDC)
- WWLT_Proposed
- Indicative Future Urban Area (as defined in NDC)
- Transmission Network Pipe

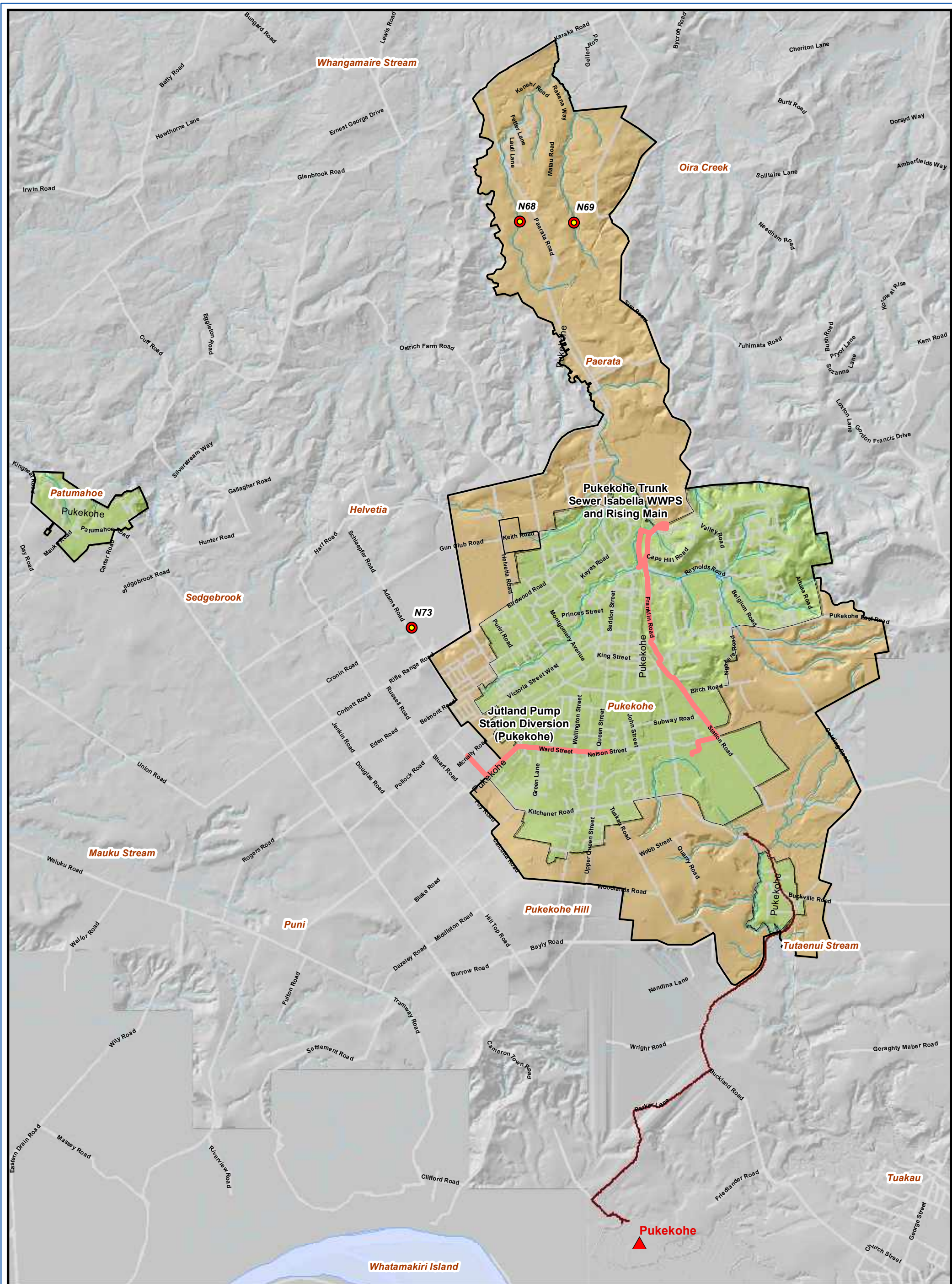
PROPOSED ASSETS MAP
Waiuku Catchment



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 DATE: 21 November 2025 MAP NO: PR25035_03

Watercare
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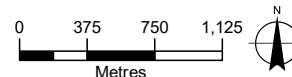
DISCLAIMER
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LEGEND

- Proposed Future Overflow Location
- Existing Urban Area (as defined in NDC)
- WWLT_Proposed
- Indicative Future Urban Area (as defined in NDC)
- Transmission Network Pipe

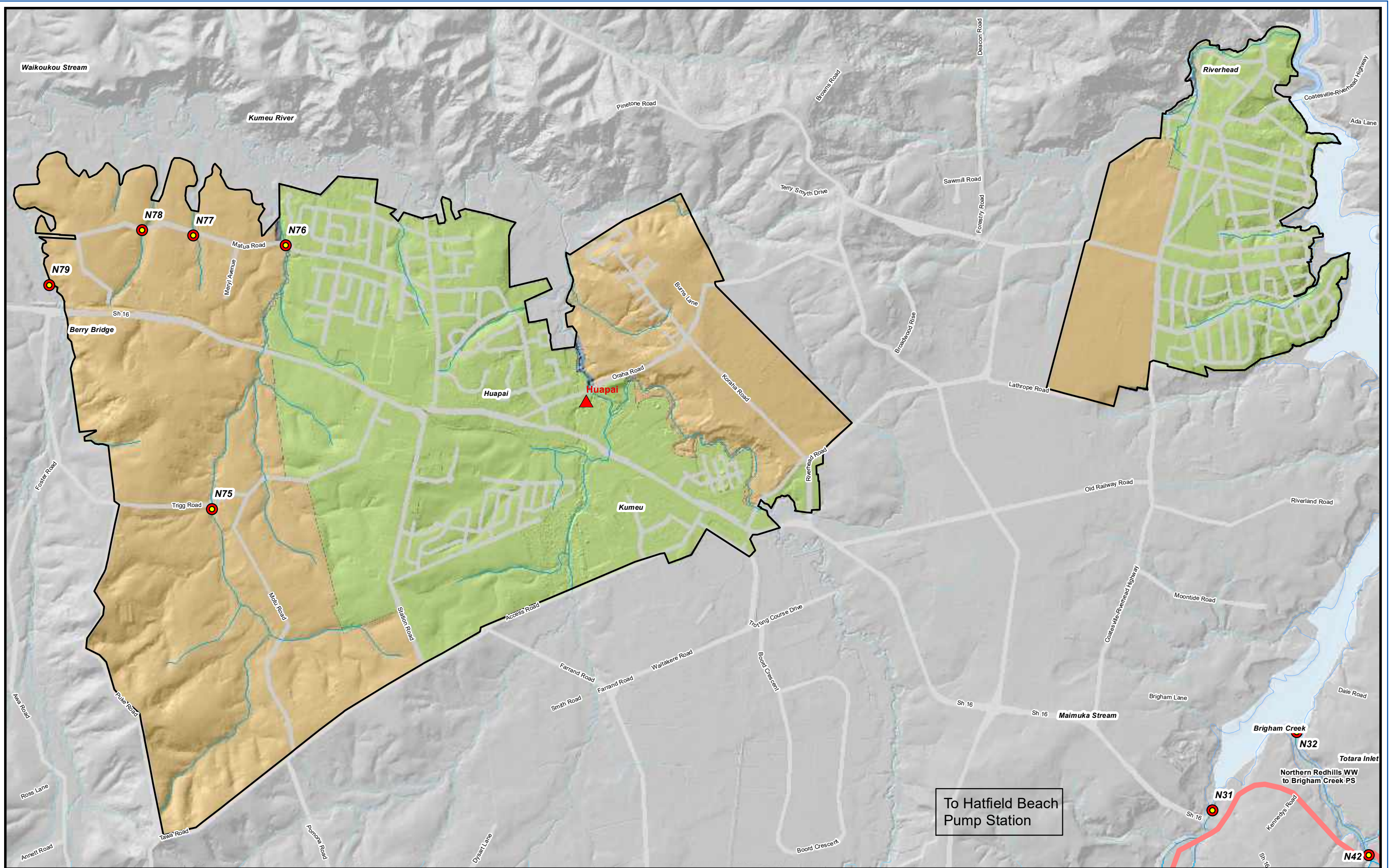
PROPOSED ASSETS MAP
Pukekohe Catchment



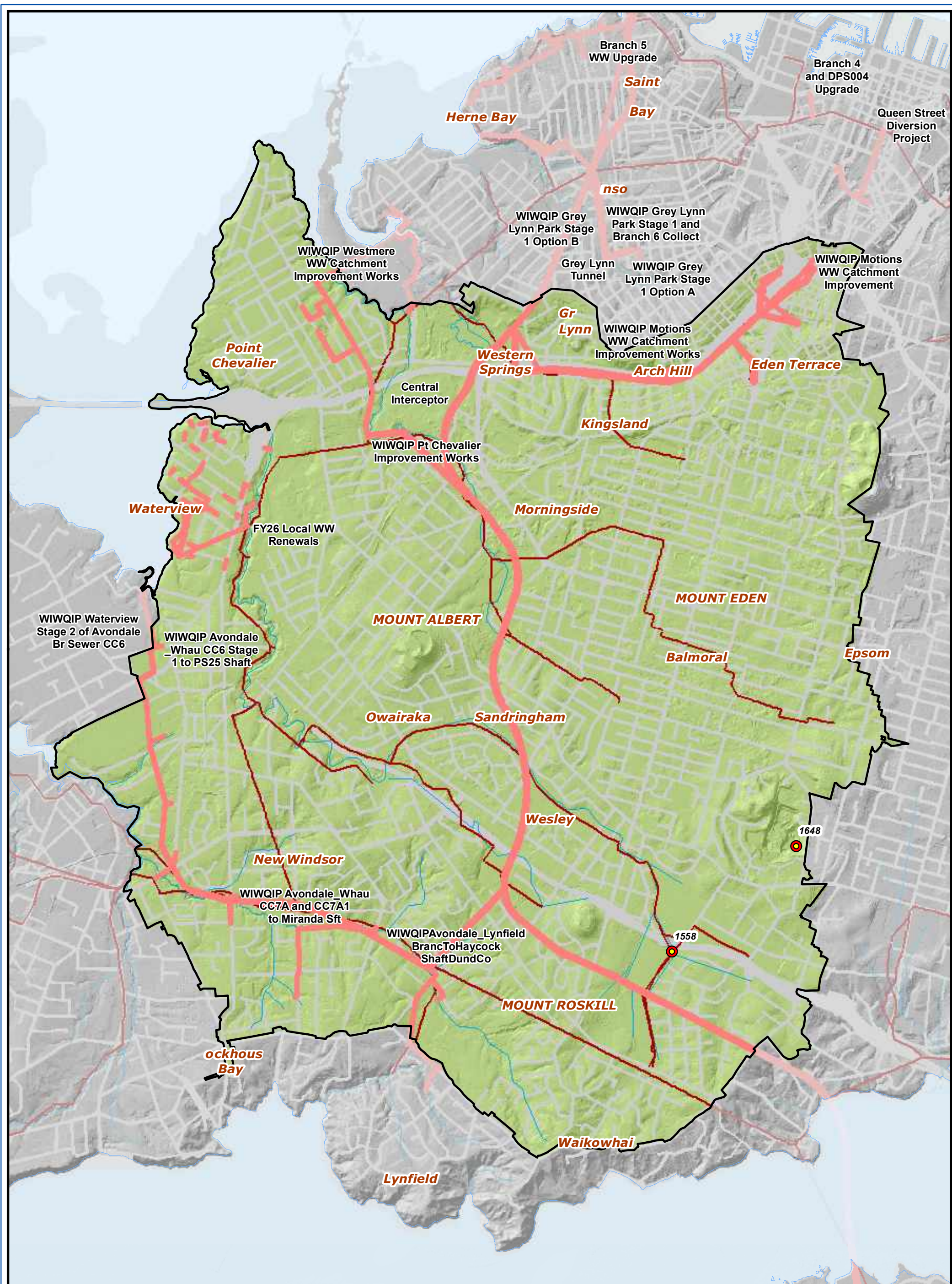
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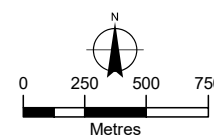


LEGEND		PROPOSED ASSETS MAP Kumeu-Huapai-Riverhead Catchment	 0 180 360 540 Metres	 N	SCALE: 1:21,000 @A3 CREATED BY: ASARIBALI DATE: 21 November 2025 MAP NO: PR25034_03 Watercare An Auckland Council Organisation <small>DISCLAIMER</small> Watercare accepts no responsibility for the accuracy of these service records. If requested by Watercare the exact position of services must be verified by carrying out a site investigation prior to commencement of any works.		
	Proposed Future Overflow Location						Existing Urban Area (as defined in NDC)
	WWLT_Proposed						Indicative Future Urban Area (as defined in NDC)
	Transmission Network Pipe						



- LEGEND**
-  Proposed Future Overflow Location
 -  WWT_Proposed
 -  Transmission Network Pipe
 -  Existing Urban Area (as defined in NDC)
 -  Indicative Future Urban Area (as defined in NDC)

PROPOSED ASSETS MAP
Western Isthmus (CI) Catchment



SCALE:1:30,600 @A3 CREATED BY: ASARIBALI
 DATE:21 November 2025 MAP NO: PR25034_03
Watercare
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DISCLAIMER
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Appendix C. Engineered Overflow Point Schedules

Table C-1 Schedule of engineered overflow points

Table C-2 Schedule of overflows to private property

Table C-1 Schedule of engineered overflow points in the existing wastewater network, current on June 2025. The highlighted rows show where changes have been made to the schedule during the 2024-25 reporting period.

Blue: EOPs that have been discovered or missed the list previously, green: newly proposed, commissioned, decommissioned or sealed EOPs.

EOP ID	Facility Code	EOP Name	X coord	Y coord	EOP Type	ADF	Status	System	Network	Catchment	Receiving Environment	RE Type	Recreational Class	Ecological Class	Cultural Class	Aesthetic Class	Public Health Risk	Ecological Risk	Available Storage Hours	Volume Range	Frequency Range
1658	DPKAR	Kauri Amber Road Pump Station			1		Operational	Separate	Local	Upper Harbour West Catchment	Ngongetepara Stream	Large waterway	3	2	2	1	Very Low	Very Low			
1655	DPJBR	JudgesBay Road Wastewater Pump Station			1		Operational	Separate	Local	Hobson Bay Catchment	Judges Bay	Basin	1	1	1	1	High	High			
1654	DPHSP	Hospital Road Pump Station			1		Operational	Separate	Local	Upper Tamaki River Catchment	Unnamed tributary of Upper Tamaki River (Middlemore Arm)	Small waterway	3	2	1	1	Very Low	Moderate			
1653	DPOLG	Olga Road Pump Station			1		Operational	Separate	Local	Upper Tamaki River Catchment	Unnamed tributary of Otara Creek (east)	Small waterway	3	2	1	1	Very low	Very low			
1652		25 Sundown Ave	1,757,130	5,943,923	2		Operational	Separate	Local	HBC-Whangaparaoa Catchment	Little Manly Beach	Beach	1	2	1	1	Very High	Very High			
1651		35 Entrican Avenue	1,761,101	5,916,992	2		Operational	Separate	Local	Hobson Bay	Unnamed stream flowing to Hobson Bay	Small waterway	2	1	2	1	Very High	Very High			
1650	DPRO1	Rock Isle 1 Pump Station	1,756,801	5,937,045	1		Operational	Separate	Local	East Coast Bays	Winstones Cove	Beach	2	2	2	1	Low	Very Low			
1649		21 Cecil Road	1,757,945	5,929,199	2		Operational	Separate	Local	East Coast Bays	Waitemata Harbour	Harbour	2	3	1	1	Very High	Moderate			
1648	DPTHK	Three Kings Pump Station	1,756,608	5,914,100	1		Operational	Separate	Local	Western Isthmus	Swale	Swale	3	3	2	2	Very Low	Very Low			
1647						8	Proposed	Separate	Local	East Coast Bays	Awaruku Creek	Small waterway	3	3	1	1	Low	Moderate			
1646	DPSC5	Scott Point 5 Pump Station	1,748,557	5,925,221	1		Operational	Separate	Local	Upper Harbour West	Limeburners Bay	Estuary	2	2	1	2	Very Low	Very Low			
1645		42 Tohunga Cres	1,759,382	5,919,250	2		Operational	Separate	Local	Hobson Bay	Hobson Bay	Basin	2	1	1	1	Very High	Very High			
1644	DPWWN	Warkworth North Pump Station			2		proposed	Separate	Local	Warkworth	Manukau Harbour (as per Elizabeth St EOP)	Harbour	3	2	1	1	Low	Low			
1642		CRL EOP (replacement Motions network)					Proposed			Western Isthmus			0	0	0	0	0	0			
1641		Heron Park EOP					Proposed			Western Isthmus			0	0	0	0	0	0			
1640		CC7 EOP Miranda Reserve			2		Proposed			Western Isthmus			0	0	0	0	0	0			
1639		Archboyd Pump Station					Proposed			Māngere			0	0	0	0	0	0			
1638		23 Dingle Road	1,765,327	5,919,529	2		Operational	Separate	Local	Hobson Bay	St Heliers Bay	Beach	1	2	1	1	Very High	High			
1637		Mclarin Rd					Proposed			Clarks Beach			0	0	0	0	0	0			
1636		4 Scott Road	1,747,468	5,925,842			Operational	Separate	Local	Upper Harbour West	Limeburners Bay	Estuary	2	2	1	2	Low	Low			
1635	DPTEP	Te Paea PS	1,767,785	5,887,983	1		Operational	Separate	Local	Pukekohe	Unnamed Tributary to Whangapouri Creek	Small waterway	3	2	2	1	Very Low	Moderate			
1634		160 Tennessee	1,761,926	5,908,338	2		Operational	Separate	Local	Māngere	Unnamed tributary to Harania Creek (South)	Small waterway	3	2	2	1	Very Low	Moderate			
1633		6 Alfriston Road	1,769,019	5,900,961	2		Operational	Separate	Local	Pahurehure Inlet	Papakura Stream	Large waterway	3	2	1	1	Very Low	Very Low			
1631	DPDNK	Dunkirk Pump Station			1		Proposed	Separate	Transmission	Lower Tamaki River	Lower Tamaki River	Estuary	2	1	1	1	Low	Low			
1630	DSB0314	35 James Cook Cres, Remuera	1,758,804	5,918,424	2		Operational	Combined	Local	Hobson Bay	Newmarket Stream	Small waterway	3	2	1	1	Moderate	Very Low			
1629		2/29 Raven Ave	1,755,453	5,912,410	2		Operational	Separate	Local	Western Isthmus	Oakley Creek (Keith Hay Park)	Small waterway	2	3	2	1	0	0			
1628	DPRHL	Redhills Pump Station	1,741,592	5,925,063	1		Operational	Separate	Local	Upper Harbour West	Ngongetepara Stream	Large waterway	3	2	2	1	Very Low	Very Low			
1627	DPRAW	Rautawhiri Rd PS	1,730,860	5,939,443	1		Operational	Separate	Local	Helensville	Awaroa Stream	Large waterway	3	2	2	1	Very Low	Very Low			
1626	DPSML	Small Road Pump Station	1,718,738	5,945,153	1		Operational	Separate	Local	Weiti	John Creek	Small waterway	3	2	2	2	Very Low	Moderate			
1625		Was N51	1,773,367	5,891,562	1		Proposed	Separate	Local	Pahurehure Inlet	Unnamed tributary of Hingaia Stream	Small waterway	3	2	2	1	Very Low	Moderate			
1624	DPSC6	Scott Point 6 WWPS	1,748,655	5,926,446	1		Operational	Separate	Local	Upper Harbour West	Bomb Bay	Estuary	3	1	1	2	Very Low	Very Low			
1623	DPKIA	Kia Kaha Drive PS	1,754,906	5,966,794	1		Operational	Separate	Local	Snells Beach-Algies Bay	Northern arm of Mahurangi Harbour (Cornell Circle)	Estuary	3	1	2	2	Very Low	Very Low			
1622	DPWIK	14 Wikitoria Lane	1,748,156	5,971,249	1		Operational	Separate	Local	Warkworth	Mill Stream	Small waterway	3	3	2	2	Very Low	Very Low			
1621	DSB0123	12 Woodley Ave, Remuera	1,761,151	5,916,897	2		Operational	Separate	Local	Hobson Bay	Orakei Basin	Basin	1	1	1	1	Moderate	High			
1620	DPGOD	Godwit Place Wastewater Pump Station	1,752,987	5,911,045	1		Operational	Separate	Local	Māngere	Manukau Harbour edge (between Lynfield Cove and Wattle Bay)	Harbour	3	1	2	2	Very low	Very low			

EOP ID	Facility Code	EOP Name	X coord	Y coord	EOP Type	ADF	Status	System	Network	Catchment	Receiving Environment	RE Type	Recreational Class	Ecological Class	Cultural Class	Aesthetic Class	Public Health Risk	Ecological Risk	Available Storage Hours	Volume Range	Frequency Range
1619	DPSY1	Sylvania Crescent 1 Wastewater Pump Station	1,753,194	5,910,910	1		Operational	Separate	Local	Onehunga	Manukau Harbour edge (between Lynfield Cove and Wattle Bay)	Harbour	3	1	2	2	Very low	Very low			
1618	DPMAH	194 Mahia Rd	1,767,662	5,898,935	1		Operational	Separate	Local	Pahurehure Inlet	Waimahia Creek	Estuary	2	2	1	1	Very Low	Very Low			
1617	DPPAR	Paremoremo Wastewater Pumpstation	1,746,524	5,931,331	1		Operational	Separate	Local	Outside			0	0	0	0	0	0			
1616		Waivera WWTP	1,751,413	5,954,774	2		Proposed	Separate	Local	Waivera	Waivera Estuary	Estuary	1	1	1	1	0	0			
1615	DPBR1	132 Bremner Road	1,772,519	5,891,353	1		Operational	Separate	Local	Pahurehure Inlet	Ngakoroa Stream	Small waterway	3	2	2	1	Very Low	Very Low			
1614	DPFAL	84 Falls Road	1,748,107	5,970,693	1		Operational	Separate	Local	Warkworth	Unnamed watercourse	Small waterway	3	3	2	2	Very Low	Very Low			
1613	DPWH2	217 West Hoe Heights, Orewa	1,750,024	5,950,844	1		Operational	Separate	Local	Orewa	Nukumea Stream	Small waterway	3	1	2	1	Very Low	High			
1612	DPWH1	217 West Hoe Heights, Orewa	1,750,053	5,951,160	1		Operational	Separate	Local	Orewa	Nukumea Stream	Small waterway	3	1	2	1	Very Low	High			
1611	DPQUY	355 Quarry Road	1,774,808	5,889,272	1		Operational	Separate	Local	Pahurehure Inlet	Hingaia Stream	Large waterway	3	2	2	2	Very Low	Very Low			
1610	DPBR2	269 Bremner Road			1		Operational	Separate	Local	Pahurehure Inlet	Unnamed Tributary to Drury Creek	Small waterway	3	2	1	1	Very Low	Moderate			
1608		9 Woodstock Road			2		Proposed	Separate	Local	East Coast Bays	Unamed tributary of Wairau Stream	Small waterway	3	3	2	1	Low	Low			
1607		Weitii Pump Station	1,747,895	5,946,133	1		Proposed	Separate	Local	Orewa	Weiti Stream	Large waterway	2	2	2	2	0	0			
1606		83 Sunnynook Road	1,755,522	5,930,599	2		Operational	Separate	Local	East Coast Bays	Unamed tributary of Wairau Stream	Small waterway	3	3	2	1	Low	Low			
1605	DSBHV40	29a Cresta Ave			2		Proposed	Separate	Local				0	0	0	0	0	0			
1604		10 Celsmere Lane	1,746,650	5,920,482	2	7.6	Operational	Separate	Local	Henderson Creek Catchment	Henderson Creek (southern arm)	Estuary	2	2	1	1	High	High			
1603		84 Torkar Rd	1,750,920	5,888,722	2		Operational	Separate	Local	Clarks Beach	Clarks Beach	Beach	1	1	1	1	Low	Very Low			
1602	DPHO3	Hobsonville 3 Pump Station	1,749,168	5,927,225	1		Operational	Separate	Transmission	Upper Harbour West	Harrier Point	Beach	1	2	2	2	Low	Very Low			
1601		2/3 Chartwell Ave			2	6.8	Proposed	Separate	Transmission				0	0	0	0	0	0			
1599	DSECB	49 Masterton Rd			2	5.4	Proposed	Separate	Transmission				0	0	0	0	0	0			
1598		21 Ayr Street	1,758,933	5,918,759	2		Operational	Separate	Local	Hobson Bay	Newmarket Stream	Small waterway	3	2	1	1	Moderate	Very Low			
1597		St Marys Bay Diversion			2		Proposed	Separate	Transmission				0	0	0	0	0	0			
1595		11 Jonathan Place	1,755,409	5,931,106	2	2.5	Operational	Separate	Local	East Coast Bays	Unnamed tributary of Wairau Stream	Small waterway	3	3	2	1	Low	Low			
1594	DPSC1	Scott Point 1 WWPS			1		Operational	Separate	Local	Upper Harbour West	Bomb Bay	Estuary	3	1	1	2	Very Low	Very Low			
1593		Bremner Rd PS (207 Bremner Road)			1		Proposed	Separate	Local	Pahurehure Inlet	Unnamed Tributary to Drury Creek	Small waterway	3	2	2	1	Very Low	Moderate			
1592	DPFRD	84 Fred Taylor Drive PS			1		Operational	Separate	Local	Upper Harbour West	Ngongetepara Stream	Large waterway	3	2	2	1	Very Low	Very Low			
1591	DPWYN	PS85 Wynyard Quarter PS	1,756,500	5,921,073	1		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate			
1589		153 Whitney Street	1,752,206	5,913,308	2		Operational	Separate	Local	Western Isthmus	Whau Creek	Small waterway	3	1	2	1	0	0			
1588	DPSC3	Scott Point 3 WWPS	1,748,744	5,925,864	1		Operational	Separate	Local	Upper Harbour West	Nimrod Inlet	Estuary	3	1	1	2	0	0			
1587	DPJUT	Jutland Rd WWPS	1,767,402	5,880,894	1		Operational	Separate	Local	Pukekohe	Unnamed tributary of Whangapouri Creek (Adams Rd)	Small waterway	3	2	2	1	Very Low	Moderate			
1586	DPHAB	Harbour Ridge Drive PS	1,763,580	5,901,817	1		Operational	Separate	Local	Puhinui	Puhinui Stream	Large waterway	2	2	1	1	Moderate	Moderate			
1585	DPROW	Rowles Rd PS	1,767,515	5,879,719	1		Operational	Separate	Local	Pukekohe	Stormwater pond (Wai Shing Place)	Small waterway	3	3	2	1	Very Low	Very Low			
1584	DPWHV	Whenuapai Village PS	1,743,407	5,927,036	1		Operational	Separate	Local	Upper Harbour West	Stormwater pond (Tamiro Road)	Small waterway	3	3	2	1	0	0			
1583		16 Matipo Rd	1,746,685	5,922,320	2	12	Operational	Separate	Local	Henderson Creek	Unnamed tributary to Henderson Creek	Small waterway	3	1	2	1	Very low	Very low			
1582	DPSC2	Scott Point 2 WWPS	1,748,450	5,925,980	1		Operational	Separate	Local	Upper Harbour West	Nimrod Inlet	Estuary	3	1	1	2	0	0			
1580		4 St Marks Rd	1,758,738	5,917,679	2		Operational	Separate	Local	Hobson Bay	Newmarket Stream	Small waterway	3	2	1	1	Moderate	Very Low			
1579	DPPAM	Pamela Christine Pump Station	1,761,818	5,883,329	1		Operational	Separate	Local	Pukekohe	Stormwater pond (Pamela Christine Road)	Small waterway	3	3	2	1	Very Low	Very Low			
1578	DPOKR	Okura River Rd Pump Station	1,753,948	5,937,792	1		Operational	Separate	Local	Long Bay	Unnamed tributary (1) to Vaughan Stream	Small waterway	2	2	1	1	0	0			
1577	DPORU	Oruarangi Pump Station	1,757,100	5,904,811	1		Operational	Separate	Local	Māngere	Oruarangi Creek	Small waterway	1	2	1	1	High	Moderate			

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1109	DPTMT	Tamatea Wastewater Pump Station	1,755,024	5,968,434	1		Operational	Separate	Local	Snells Beach-Algies Bay	Snells Beach	Beach	1	2	1	1	Low	Very low	> 8	Low	Low
1107	DPCNL	Cornel Wastewater Pump Station	1,754,548	5,967,539	1		Operational	Separate	Local	Snells Beach-Algies Bay	Northern arm of Mahurangi Harbour (Cornell Circle)	Estuary	2	1	2	1	Very low	Very low	> 8	Low	Low
1106	DPDAL	Dalton Wastewater Pump Station	1,755,189	5,967,762	1		Operational	Separate	Local	Snells Beach-Algies Bay	Snells Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
1105	DPALE	Alexander Wastewater Pump Station	1,756,431	5,966,439	1		Operational	Separate	Local	Snells Beach-Algies Bay	Algies Bay Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
1103	DPWLJ	Willjames Wastewater Pump Station	1,756,803	5,966,064	1		Operational	Separate	Local	Snells Beach-Algies Bay	Unnamed stream (flowing to Algies Bay)	Small waterway	3	2	1	1	Very low	Moderate	> 8	Low	Low
1101	DPMBC	Martins Bay Camp Wastewater Pump Station	1,758,060	5,964,849	1		Operational	Separate	Local	Snells Beach-Algies Bay	Martins Bay Beach	Beach	1	2	2	1	Low	Very low	> 8	Low	Low
1100	DPWER	Weranui Wastewater Pump Station	1,751,711	5,954,556	1		Operational	Separate	Local	Waiwera	Wairewa Estuary	Estuary							4-8		
1099	DPWWR	Waiwera Town Wastewater Pump Station	1,752,701	5,954,288	1		Operational	Separate	Local	Waiwera	Waiwera Estuary	Estuary	1	1	1	1	Low	Low	4-8	Low	Low
1098	DPWAC	Waiwera Camp Wastewater Pump Station	1,752,910	5,954,269	1		Operational	Separate	Local	Waiwera	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	4-8	Low	Low
1097	DPCIC	Chic Wastewater Pump Station	1,727,990	5,941,774	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway	2	2	1	1	Very low	Very low	4-8	Low	Low
1096	DPPAI	Parakai Wastewater Pump Station	1,728,479	5,941,816	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway	2	2	1	1	Very low	Very low	> 8	Low	Low
1095	DPSPR	Springs Road Wastewater Pump Station	1,728,743	5,942,088	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway							4-8		
1094	DPOUT	Outfall Wastewater Pump Station	1,729,598	5,941,489	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway							< 1		
1093	DPMRO	Miro Street Wastewater Pump Station	1,730,036	5,940,548	1		Operational	Separate	Local	Helensville	Awaroa Stream	Large Waterway	3	2	2	1	Very low	Very low	4-8	Low	Low
1092	DPMIL	Mill Road Wastewater Pump Station	1,729,166	5,939,746	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway	2	2	1	1	Very low	Very low	4-8	Low	Low
1090	DPKOW	Kowhai Wastewater Pump Station	1,729,564	5,939,266	1		Operational	Separate	Local	Helensville	Kaipara River	Large waterway	2	2	1	1	Very low	Very low	4-8	Low	Low
1087	DPPHM	Pine Harbour Marina Wastewater Pump Station	1,777,316	5,915,445	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Pine Harbour Marina Beach (South)	Small Waterway	3	2	1	2	Very Low	Moderate	> 8	Low	Low
1086	DPTOO	Toomer Place Wastewater Pump Station	1,777,342	5,916,082	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Pine Harbour Marina Beach (North)	Small Waterway	3	2	1	1	Very Low	Moderate	> 8	Low	Low
1085	DPSKB	Sunkist Bay Wastewater Pump Station	1,777,777	5,916,537	1		Operational	Separate	Local	Beachlands Maraetai	Sunkist Bay Beach	Beach	1	1	1	1	Low	Very Low		Low	Low
1084	DPKKA	Karaka Road Wastewater Pump Station	1,778,578	5,915,511	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Pine Harbour Marina Beach (South)	Small Waterway	3	2	1	2	Very Low	Moderate		Low	Low
1083	DPTVW	Third Avenue Wastewater Pump Station	1,778,995	5,916,555	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Kelly's Beach (North)	Small Waterway	3	3	1	2	Very Low	Moderate		Low	Low
1081	DPTPR	Te Puru Wastewater Pump Station	1,779,562	5,916,016	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Kelly's Beach (South)	Small Waterway	3	2	1	1	Very Low	Moderate		Low	Low
1080	DPTPN	Te Pene Wastewater Pump Station	1,781,675	5,917,021	1		Operational	Separate	Local	Beachlands Maraetai	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land		Low	Low
1079	DPMTI	Maraetai Domain Wastewater Pump Station	1,781,973	5,916,489	1		Operational	Separate	Local	Beachlands Maraetai	Unnamed stream to Maraetai Beach	Small Waterway	2	2	1	2	Moderate	Moderate	> 8	Low	Low
1047	DPGLB	Glenbrook Beach Wastewater Pump Station	1,752,090	5,885,638	1		Operational	Separate	Local	Clarks Beach	Glenbrook Beach	Beach	2	2	1	1	Low	Very Low	> 8	Low	Low
1046	DPCHV	Channel View Road Wastewater Pump Station	1,751,471	5,887,432	1		Operational	Separate	Local	Clarks Beach	Waiiau Beach	Beach	2	2	1	1	Low	Very Low	> 8	Low	Low
1045	DPKEV	Keven Road (Waiiau 1) Wastewater Pump Station	1,751,535	5,887,742	1		Operational	Separate	Local	Clarks Beach	Waiiau Beach	Beach	2	2	1	1	Low	Very Low	> 8	Low	Low
1044	DPCRI	Crisp Rd Wastewater Pump Station	1,752,091	5,888,850	1		Operational	Separate	Local	Clarks Beach	Clarks Beach	Beach	1	1	1	1	Low	Very Low	> 8	Low	Low
1043	DPHOS	Hoskings Clarks Beach Wastewater Pump Station	1,751,752	5,888,887	1		Operational	Separate	Local	Clarks Beach	Clarks Beach	Beach	1	1	1	1	Low	Very Low	> 8	Low	Low
1042	DPKNI	Knights Walkway Wastewater Pump Station	1,751,327	5,888,863	1		Operational	Separate	Local	Clarks Beach	Clarks Beach	Beach	1	1	1	1	Low	Very Low	> 8	Low	Low
1041	DPSTV	Stevenson Road Wastewater Pump Station	1,751,324	5,888,635	1		Operational	Separate	Local	Clarks Beach	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	> 8	Low	Low

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993	DTPD	The Parade Wastewater Pump Station	1,769,367	5,918,950	1		Operational	Separate	Local	Lower Tamaki River	Bucklands Beach	Beach	1	1	1	1	Low	Very low	1-4	Low	Low
987	DPSAC	St Anne's Crescent Wastewater Pump Station	1,767,118	5,897,373	1		Operational	Separate	Local	Pahurehure Inlet	St Anne's Foreshore	Beach	2	2	2	1	Low	Very low	> 8	Low	Low
985	DPPKN	Pakuranga North Wholesale Wastewater Pump Station	1,768,968	5,915,457	1		Operational	Separate	Local	Lower Tamaki River	Wakaaranga Creek	Estuary	3	1	1	1	Very low	Very low	4-8	Low	Low
984	DPAVI	Aviemoore Drive Wastewater Pump Station	1,769,689	5,913,679	1		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Pakuranga Creek (Highland Park)	Small waterway	3	2	1	1	Very low	Moderate		Low	Low
976	DPSAN	Sandspit Road Wastewater Pump Station	1,774,119	5,913,495	1		Operational	Separate	Local	Cockle Bay	Shelly Park Beach	Beach	2	1	1	1	Low	Very low	1-4	Low	Low
975		16 Windsong Ct	1,771,400	5,912,996	2		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Pakuranga Creek (Botany Downs)	Small waterway	3	3	2	1	Very low	Very low		Low	Low
974		2 Browning Street	1,769,670	5,900,687	2		Operational	Separate	Local	Pahurehure Inlet	Papakura Stream	Large waterway	3	2	1	1	Very low	Very low		Low	Low
973		4 Chalfont Street	1,761,994	5,907,434	2		Operational	Separate	Local	Māngere	Unnamed tributary to Harania Creek (south)	Small waterway	3	2	2	1	Very low	Moderate		Low	Low
972		123 Ennis Ave	1,768,389	5,912,544	2		Operational	Separate	Local	Upper Tamaki River	Pakuranga Creek	Estuary	3	1	1	1	Very low	Low		Low	Low
967		14 Percival Street	1,768,249	5,900,395	2		Operational	Separate	Local	Pahurehure Inlet	Unnamed stream near Percival Street	Small waterway	3	2	2	1	Very low	Moderate		Low	Low
966		17 McDougall Street	1,769,504	5,900,477	2		Operational	Separate	Local	Pahurehure Inlet	Papakura Stream	Large waterway	3	2	1	1	Very low	Very low		Low	Low
965		105R Beaumonts Way	1,769,158	5,899,940	2		Operational	Separate	Local	Pahurehure Inlet	Papakura Stream	Large waterway	3	2	1	1	Very low	Very low		Low	Low
963		62 Chelburn Crescent	1,761,738	5,908,184	2		Operational	Separate	Local	Māngere	Unnamed tributary to Harania Creek (south)	Small waterway	3	2	2	1	Very low	Moderate		Low	Low
962		53R Raglan Street	1,762,768	5,906,302	2		Operational	Separate	Local	Puhinui	Unnamed Stream in Aorere Park	Small waterway	3	2	1	1	Very low	Moderate		Low	Low
961		16 Ingram Crescent	1,767,705	5,906,620	2		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Otara Creek (west)	Small waterway	3	3	1	1	Very low	Very low		Medium	Low
960		30 Minaret Drive	1,770,167	5,915,294	2		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Pakuranga Creek (Highland Park)	Small waterway	3	2	1	1	Very low	Moderate		Low	Low
959		12 Udall Place	1,770,183	5,915,749	2		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Pakuranga Creek (Highland Park)	Small waterway	3	2	1	1	Very low	Moderate		Low	Low
958	DPBEL	Belmere Rise Pump Station	1,768,050	5,915,443	1		Operational	Separate	Local	Lower Tamaki River Catchment	Wakaaranga Creek	Estuary	3	1	1	1	Very low	Very low			
957		38 Whiteacres Drive	1,768,586	5,914,465	2		Operational	Separate	Local	Upper Tamaki River	Unnamed tributary of Pakuranga Creek (Whiteacres Drive)	Small waterway	3	3	1	2	Low	Low		Medium	Low
951	DSSIL	Silverfield Storage Tank	1,755,753	5,927,979	1	2	Operational	Separate	Transmission	East Coast Bays	Wairau Stream	Small waterway	3	3	2	1	Low	Low	> 8	Medium	Low
949	DSKED	King Edward Parade Storage Tank Overflow	1,761,724	5,922,619	1		Operational	Separate	Transmission	Devonport-Takapuna	North Head	Harbour	2	1	1	1	High	High	> 8	High	Medium
948	DPEXM	Exmouth Wastewater Pump Station	1,756,695	5,925,056	1		Operational	Separate	Local	Shoal Bay	Tuff Crater	Basin	3	1	1	2	Very low	Low	4-8	Low	Low
947	DPBLA	Black Rock Wastewater Pump Station	1,758,510	5,928,571	1		Operational	Separate	Transmission	East Coast Bays	Thorne Bay	Beach	2	1	1	1	Moderate	Low	> 8	Medium	Low
946	DPKY2	Kyle 2 Wastewater Pump Station	1,751,368	5,930,457	1		Operational	Separate	Local	Upper Harbour North	Kyle Stream	Small waterway	3	2	1	1	Very low	Moderate	4-8	Low	Low
945	DPCLP	Carol Lee Place Wastewater Pump Station	1,751,295	5,935,005	1		Operational	Separate	Local	Upper Harbour North	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	4-8	Low	Low
944	DPMHO	Mahoney Wastewater Pump Station	1,750,407	5,932,799	1		Operational	Separate	Local	Upper Harbour North	Lucas Creek	Estuary	2	1	1	1	Very low	Very low	> 8	Low	Low
943	DPNEP	Neptune Wastewater Pump Station	1,750,227	5,926,166	1		Operational	Separate	Local	Upper Harbour South	Beach Haven Coast	Beach	3	2	1	1	Very low	Very low	4-8	Low	Low
938	DPGYS	Grays Wastewater Pump Station	1,756,934	5,937,225	1		Operational	Separate	Local	East Coast Bays	Winstones Cove	Beach	2	2	2	1	Low	Very low	4-8	Low	Low
934	DPALY	Aberly Wastewater Pump Station	1,750,153	5,931,426	1		Operational	Separate	Local	Upper Harbour North	Aberley Creek	Small waterway	3	1	2	1	Very low	Moderate	4-8	Low	Low
930	DPALC	Albany Church Wastewater Pump Station	1,753,162	5,929,868	1		Operational	Separate	Local	Upper Harbour South	Lignite Stream	Small waterway	3	1	2	1	Very low	High	1-4	Low	Low
928	DPWNI	Wainoni Wastewater Pump Station	1,749,913	5,929,936	1		Operational	Separate	Local	Upper Harbour North	Te Wharau Creek	Estuary	3	1	2	1	Very low	Very low	4-8	Low	Low

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927	DPAWA	Awatahi Wastewater Pump Station	1,748,755	5,929,200	1		Operational	Separate	Local	Upper Harbour North	Lucas Creek	Estuary	2	1	1	1	Very low	Very low	1-4	Low	Low
926	DPRAH	Rahui Wastewater Pump Station	1,748,741	5,928,466	1		Operational	Separate	Local	Upper Harbour North	Greenhithe Coast	Estuary	2	2	2	1	Very low	Very low	4-8	Low	Low
925	DPKKI	Koki Wastewater Pump Station	1,748,900	5,928,205	1		Operational	Separate	Local	Upper Harbour North	Greenhithe Coast	Estuary	2	2	2	1	Very low	Very low	1-4	Low	Low
924	DPREM	Remu Wastewater Pump Station	1,749,145	5,928,046	1		Operational	Separate	Local	Upper Harbour North	Greenhithe Coast	Estuary	2	2	2	1	Very low	Very low	1-4	Low	Low
923	DPVAN	Van Der Bilt Wastewater Pump Station	1,751,427	5,932,861	1		Operational	Separate	Local	Upper Harbour North	Oteha Stream	Small waterway	3	2	1	1	Very low	Moderate	4-8	Low	Low
920	DPKER	Kerema Wastewater Pump Station	1,749,720	5,930,454	1		Operational	Separate	Local	Upper Harbour North	Lucas Creek	Estuary	2	1	1	1	Very low	Very low	> 8	Low	Low
918	DPONA	Omana Wastewater Pump Station	1,757,690	5,929,393	1		Operational	Separate	Local	East Coast Bays	Wairau Creek	Estuary	2	3	1	1	Very low	Very low	> 8	Low	Low
917	DPGLU	Glendu Wastewater Pump Station	1,752,025	5,929,183	1		Operational	Separate	Local	Upper Harbour South	Lignite Stream	Small waterway	3	1	2	1	Very low	High	> 8	Low	Low
916	DPERI	Eric Price Wastewater Pump Station	1,758,248	5,928,503	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	> 8	Low	Low
915	DPHM1	Hurstmere 1 Wastewater Pump Station	1,758,340	5,928,365	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	4-8	Low	Low
914	DPHM2	Hurstmere 2 Wastewater Pump Station	1,758,285	5,928,253	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	> 8	Low	Low
913	DPHM3	Hurstmere 3 Wastewater Pump Station	1,758,188	5,928,064	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	> 8	Low	Low
912	DPSHE	Shea Hospital Wastewater Pump Station	1,756,975	5,928,012	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	1-4	Low	Low
911	DPPRO	Promenade Wastewater Pump Station	1,758,062	5,927,759	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	> 8	Low	Low
910	DPLAK	Lake View Wastewater Pump Station	1,757,149	5,927,609	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	4-8	Low	Low
909	DPKIL	Killarney Wastewater Pump Station	1,757,653	5,927,412	1		Operational	Separate	Local	East Coast Bays	Lake Pupuke	Basin	1	1	1	1	Low	Low	4-8	Low	Low
908	DPDMN	Dominion Wastewater Pump Station	1,756,770	5,926,625	1		Operational	Separate	Local	Shoal Bay	Hillcrest Creek	Small waterway	3	2	1	1	Very low	Moderate	4-8	Low	Low
907	DPKWO	Kitewao Wastewater Pump Station	1,756,654	5,926,549	1		Operational	Separate	Local	Shoal Bay	Hillcrest Creek	Small waterway	3	2	1	1	Very low	Moderate	> 8	Low	Low
906	DPBPO	Barrys Point Local Wastewater Pump Station	1,757,591	5,926,435	1		Operational	Separate	Local	Shoal Bay	Shoal Bay	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
905	DPBYS	Bayswater Wastewater Pump Station	1,757,642	5,923,703	1		Operational	Separate	Local	Shoal Bay	Shoal Bay	Estuary	2	1	1	1	Very low	Very low	> 8	Low	Low
904	DPJIM	Jim Tichener Wastewater Pump Station	1,759,376	5,923,189	1		Operational	Separate	Local	Shoal Bay	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	4-8	Low	Low
903	DPCRE	Cresta Wastewater Pump Station	1,750,462	5,927,278	1		Operational	Separate	Local	Upper Harbour South	Hellyers Creek	Estuary	2	1	1	1	Very low	Very low	1-4	Low	Low
902	DPBEN	Beachaven Wastewater Pump Station	1,750,008	5,927,176	1		Operational	Separate	Local	Upper Harbour South	Hellyers Creek	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
901	DPCRO	Cronin Wastewater Pump Station	1,750,198	5,926,733	1		Operational	Separate	Local	Upper Harbour South	Beach Haven Beach	Beach	1	2	1	1	Low	Very low	1-4	Low	Low
900	DPRMP	Rosecamp Wastewater Pump Station	1,750,483	5,925,867	1		Operational	Separate	Local	Upper Harbour South	Charcoal Bay	Beach	2	2	1	1	Low	Very low	1-4	Low	Low
899	DPARH	Arahia Wastewater Pump Station	1,756,163	5,925,728	1		Operational	Separate	Local	Shoal Bay	Tuff Crater	Basin	3	1	1	2	Very low	Moderate	1-4	Low	Medium
898	DPHVN	Havenwood Wastewater Pump Station	1,754,493	5,925,539	1		Operational	Separate	Local	Shoal Bay	Waiurutoa Stream	Small waterway	3	1	1	1	Very low	High	< 1	Low	Low
897	DPCAM	Caram Wastewater Pump Station	1,752,739	5,925,165	1		Operational	Separate	Local	Upper Harbour South	Eskdale Stream	Small waterway	3	2	1	1	Very low	Moderate	> 8	Low	Low
894	DPHD2	Hadfield 2 Wastewater Pump Station	1,750,919	5,925,105	1		Operational	Separate	Local	Upper Harbour South	Island Bay	Beach	2	2	1	1	Low	Very low	1-4	Low	Low
893	DPHD1	Hadfield 1 Wastewater Pump Station	1,750,899	5,924,984	1		Operational	Separate	Local	Upper Harbour South	Island Bay	Beach	2	2	1	1	Low	Very low	1-4	Low	Low
891	DPVIA	Valkyria Wastewater Pump Station	1,751,003	5,924,630	1		Operational	Separate	Local	Upper Harbour South	Soldiers Bay	Beach	2	1	2	1	Low	Very low	1-4	Low	Low
890	DPSYV	Sylvan Wastewater Pump Station	1,756,123	5,924,570	1		Operational	Separate	Local	Shoal Bay	Onepoto Stream	Estuary	3	1	1	1	Very low	Low	> 8	Low	Medium

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842		48 Richmond Ave	1,755,768	5,924,278	2		Operational	Separate	Local	Shoal Bay	Onepoto Stream	Estuary	2	1	1	1	Low	Low		Low	Medium
841		14 Denby Lane	1,755,886	5,924,236	2		Operational	Separate	Local	Shoal Bay	Onepoto Stream	Estuary	2	1	1	1	Low	Low		Low	Medium
840		44 William Bond Street	1,759,519	5,922,963	2		Operational	Separate	Local	Shoal Bay	Ngataringa Bay	Estuary	2	1	1	1	Low	Low		Low	Medium
839		51 Plymouth Cres	1,759,069	5,924,212	2		Operational	Separate	Local	Shoal Bay	Ngataringa Bay	Estuary	2	1	1	1	Very low	Very low		Low	Low
838		39 Kiwi Road	1,759,655	5,922,922	2		Operational	Separate	Local	Shoal Bay	Ngataringa Bay	Estuary	2	1	1	1	Very low	Very low		Low	Low
837		10 Charles Street	1,757,966	5,925,882	2		Operational	Separate	Local	Shoal Bay	Shoal Bay	Estuary	2	1	1	1	Very low	Very low		Low	Low
836		24 Patuone Place	1,759,907	5,922,974	2		Operational	Separate	Local	Shoal Bay	Ngataringa Bay	Estuary	2	1	1	1	Low	Low		Low	Medium
835		3 Sidmouth Road	1,756,665	5,932,586	2		Operational	Separate	Local	East Coast Bays	Mairangi Bay Stream	Small waterway	3	2	2	2	Low	High		Low	Medium
834		28 Penning Road	1,757,130	5,929,535	2	2.5	Operational	Separate	Local	East Coast Bays	Unnamed tributary of Wairau Creek	Small waterway	3	2	2	1	Low	Low		Low	Medium
832		47 Glenvar Road	1,755,797	5,937,747	2		Operational	Separate	Local	Long Bay	Awaruku Creek	Small Waterway	2	2	1	1	Moderate	Moderate		Low	Low
831		97 Awaruku Road	1,755,672	5,937,545	2		Operational	Separate	Local	Long Bay	Awaruku Creek	Small Waterway	2	2	1	1	Moderate	Moderate		Low	Low
830	DPLNO	Lake Northcote Wastewater Pump Station	1,755,780	5,924,800	1		Operational	Separate	Transmission	Shoal Bay	Onepoto Stream	Estuary	3	1	1	1	Very low	Moderate	1-4	Medium	Medium
829		28 Waitemata Road	1,758,606	5,925,415	2		Operational	Separate	Local	Shoal Bay	Shoal Bay	Estuary	2	1	1	1	Very low	Very low		Low	Low
827	DPSEW	Seaview Wastewater Pump Station	1,757,407	5,929,545	1		Operational	Separate	Transmission	East Coast Bays	Unnamed tributary of Wairau Creek	Small Waterway	3	2	2	1	Very low	Very low	1-4		
826	DPATL	Atlas Wastewater Pump Station	1,769,246	5,931,884	1		Operational	Separate	Local	Upper Harbour North	Alexandra Stream	Small waterway	3	1	2	1	Very low	High	4-8	Low	Low
825	DPFRA	Franklin Road Wastewater Pump Station	1,769,246	5,881,820	1		Operational	Separate	Local	Pukekohe	Unnamed tributary of Whangapouri Creek (Franklin Rd)	Small waterway	3	2	2	1	Very low	Moderate	1-4	Low	Low
822	DPWEI	Weiti Wastewater Pump Station	1,751,093	5,946,091	1		Operational	Separate	Local	Weiti	Weiti River	Estuary	2	2	2	2	Low	Low	> 8	Low	Medium
821	DPWAD	Wade Wastewater Pump Station	1,754,566	5,943,378	1		Operational	Separate	Local	Weiti	Weiti Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
820	DPTDL	Tindalls Wastewater Pump Station	1,758,411	5,945,990	1		Operational	Separate	Local	Whangaparāoa	Tindalls Beach	Beach	1	2	1	1	Low	Very low	1-4	Low	Low
819	DPTER	Terminal Wastewater Pump Station	1,751,841	5,948,263	1		Operational	Separate	Local	Orewa	Orewa river estuary	Estuary	1	1	1	1	Very low	Very low	4-8	Low	Low
818	DPSWB	Swann Beach Wastewater Pump Station	1,756,260	5,945,606	1		Operational	Separate	Local	Whangaparāoa	Swann Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
817	DPSTW	Stillwater Wastewater Pump Station	1,753,777	5,943,819	1		Operational	Separate	Local	Weiti	Weiti Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
816	DPSTA	Stanmore Wastewater Pump Station	1,755,844	5,945,025	1		Operational	Separate	Local	Whangaparāoa	Unnamed stream flowing to Stanmore Bay	Small waterway	3	2	2	1	Very low	Moderate	4-8	Low	Low
815	DPSIE	Siesta Wastewater Pump Station	1,759,524	5,947,516	1		Operational	Separate	Local	Whangaparāoa	Coal Mine Bay Beach	Beach	2	2	1	1	Low	Very low	4-8	Low	Low
814	DPRVS	Riverside Wastewater Pump Station	1,751,377	5,949,184	1		Operational	Separate	Local	Orewa	Unnamed tributary of Orewa river estuary (east)	Estuary	3	1	1	1	Very low	Very low	4-8	Low	Low
813	DPPUA	Puawai Wastewater Pump Station	1,753,520	5,946,836	1		Operational	Separate	Local	Whangaparāoa	Puawai Bay Beach	Beach	2	2	1	1	Low	Very low	4-8	Low	Low
812	DPPOP	Poplar Wastewater Pump Station	1,753,119	5,945,996	1		Operational	Separate	Local	Weiti	Weiti Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
811	DPOKO	Okoromai Wastewater Pump Station	1,761,709	5,947,127	1		Operational	Separate	Local	Whangaparāoa	Okoromai Bay Beach	Beach	1	1	1	1	Low	Very low	> 8	Low	Low
810	DPMIA	Matakatia Wastewater Pump Station	1,758,535	5,945,370	1		Operational	Separate	Local	Whangaparāoa	Matakatia Bay Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
809	DPMLY	Manly Wastewater Pump Station	1,757,892	5,945,140	1		Operational	Separate	Local	Whangaparāoa	Big Manly Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
808	DPLIT	Little Manly Wastewater Pump Station	1,757,667	5,944,064	1		Operational	Separate	Local	Whangaparāoa	Little Manly Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
807	DPLKE	Lakeside Wastewater Pump Station	1,750,555	5,949,169	1		Operational	Separate	Local	Orewa	Orewa river estuary	Estuary	1	1	1	1	Very low	Very low	> 8	Low	Low
806	DPKCC	Karaka Cove Wastewater Pump Station	1,752,983	5,946,501	1		Operational	Separate	Local	Weiti	Unnamed Stream (Karaka Cove)	Small waterway	2	3	2	2	Moderate	Very low	4-8	Low	Low
805	DPHUR	Hurdlow Wastewater Pump Station	1,756,371	5,945,296	1		Operational	Separate	Local	Whangaparāoa	Swann Beach	Beach	1	2	1	1	Low	Very low	4-8	Low	Low
804	DPHBB	Hobbs Bay Wastewater Pump Station	1,760,277	5,946,490	1		Operational	Separate	Local	Whangaparāoa	Laurie Southwick Parade Stream	Small waterway	3	2	2	1	Very low	Moderate	1-4	Low	Low

EOP ID	Facility Code	EOP Name	X coord	Y coord	EOP Type	ADF	Status	System	Network	Catchment	Receiving Environment	RE Type	Recreational Class	Ecological Class	Cultural Class	Aesthetic Class	Public Health Risk	Ecological Risk	Available Storage Hours	Volume Range	Frequency Range
684	DPMID	Middlemore Wholesale Wastewater Pump Station	1,764,297	5,907,411	1		Operational	Separate	Transmission	Upper Tamaki River	Upper Tamaki River (Middlemore Arm)	Estuary	3	2	1	1	Low	Moderate	1-4	Medium	Medium
683	DPOTB	Otara Wholesale Wastewater Pump Station	1,764,926	5,908,728	1		Operational	Separate	Transmission	Upper Tamaki River	Upper Tamaki River (Middlemore Arm)	Estuary	3	2	1	1	Very low	Very low	1-4	Low	Low
682	DPGND	Glendowie Wholesale Wastewater Pump Station	1,767,404	5,918,598	1		Operational	Separate	Transmission	Lower Tamaki River	Glendowie Stream	Small waterway	3	3	2	1	Very low	Very low	1-4	Low	Low
681	DPENG	Pt England Wholesale Wastewater Pump Station	1,766,596	5,916,759	1		Operational	Separate	Transmission	Lower Tamaki River	Omaru Creek	Small waterway	3	3	1	1	Low	Low	1-4	High	Medium
680	DPOTW	Otahuhu West Wholesale Wastewater Pump Station	1,763,311	5,910,003	1		Operational	Separate	Transmission	Māngere	Tui Creek	Small waterway	3	2	2	2	Very low	Moderate	1-4	Low	Low
679	DPONT	Onehunga Wholesale Wastewater Pump Station	1,759,926	5,911,752	1		Operational	Separate	Transmission	Onehunga	Mangere Inlet North	Basin	2	1	1	2	Moderate	Moderate	1-4	Medium	Low
678	DPMGB	Māngere Bridge Wholesale Wastewater Pump Station	1,758,869	5,910,282	1		Operational	Separate	Transmission	Māngere	Ambury Shoreline	Beach	1	1	1	1	Low	Very low	1-4	Low	Low
677	DPTRC	Black Bridge Wholesale Wastewater Pump Station	1,759,480	5,908,505	1		Operational	Separate	Transmission	Māngere	Tararata Creek	Small waterway	3	2	1	1	Low	High	1-4	High	Medium
676	DPPKS	Pakuranga South Wholesale Wastewater Pump Station	1,769,184	5,912,560	1		Operational	Separate	Transmission	Upper Tamaki River	Pakuranga Creek	Estuary	3	1	1	1	Very low	Low	1-4	Low	Low
675	DPBOT	Botany Wholesale Wastewater Pump Station	1,769,682	5,911,806	1		Operational	Separate	Transmission	Upper Tamaki River	Pakuranga Creek	Estuary	3	1	1	1	Very low	Low	1-4	Low	Low
674	DPPPT	Pikes Point Wholesale Wastewater Pump Station	1,760,896	5,911,494	1		Operational	Separate	Transmission	Onehunga	Unnamed stream (Miami Parade)	Small Waterway	3	3	2	2	Very low	Very low	1-4	Low	Low
673	DPTIN	Tamaki East Wholesale Wastewater Pump Station	1,765,968	5,910,094	1		Operational	Separate	Transmission	Upper Tamaki River	Upper Tamaki River	Estuary	1	1	1	1	Very low	Very low	1-4	Low	Low
672	DPWTF	Westfield Wholesale Wastewater Pump Station	1,762,920	5,911,492	1		Operational	Separate	Transmission	Māngere	Ann's Creek	Estuary	3	1	1	2	Low	Low	1-4	Low	Medium
670	DPSPK	Sylvia Park Wholesale Wastewater Pump Station	1,764,880	5,912,820	1		Operational	Separate	Transmission	Upper Tamaki River	Upper Tamaki River	Estuary	1	1	1	1	Very low	Very low	< 1	Medium	Low
669	DPSMT	Mt Smart Wholesale Wastewater Pump Station	1,761,401	5,911,912	1		Operational	Separate	Transmission	Onehunga	Mangere Inlet North	Basin	2	1	1	2	Low	Low	< 1	Low	Low
668	DPONE	Hillsborough Wholesale Wastewater Pump Station	1,758,511	5,911,748	1		Operational	Separate	Transmission	Onehunga	Onehunga Bay	Beach	2	2	1	1	Low	Low	1-4	Medium	Low
667	DPHIN	Pakuranga Wholesale Wastewater Pump Station	1,765,816	5,913,225	1		Operational	Separate	Transmission	Upper Tamaki River	Upper Tamaki River	Estuary	1	1	1	1	High	High	< 1	High	Medium
664	DPFAV	Favona Road Wholesale Wastewater Pump Station	1,761,120	5,908,712	1		Operational	Separate	Transmission	Māngere	Harania Creek	Estuary	3	2	1	2	Very low	Low	1-4	Medium	Low
663	DPKOH	Kohimarama Wholesale Wastewater Pump Station	1,764,582	5,919,662	1		Operational	Separate	Transmission	Hobson Bay	Madill's Stream	Small waterway	3	2	1	1	Very low	Moderate	1-4	Medium	Medium
662	DPHOW	Howick Wholesale Wastewater Pump Station	1,773,589	5,915,082	1		Operational	Separate	Transmission	Cockle Bay	Howick Beach	Beach	1	1	1	1	Low	Very low	1-4	Low	Low
659	DPFAN	PS4 Fanshawe Street Pump Station	1,756,748	5,920,737	1		Operational	Separate	Transmission	Central Auckland	Waitemata Harbour - CBD Edge	Harbour							4-8		
658	DPFRN	Farnham Street Wholesale Wastewater Pump Station	1,758,878	5,920,106	1		Operational	Separate	Transmission	Central Auckland	Waitemata Harbour - CBD Edge	Harbour							> 8		
657	DPONR	Oneroa Waiheke Wastewater Pump Station	1,779,483	5,927,363	1		Operational	Separate	Local	Oneroa	Oneroa Beach	Beach	1	2	1	1	Low	Very Low	> 8	Low	Low
656	DPESM	Esmeralda Avenue Wastewater Pump Station	1,749,318	5,916,633	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	1-4	Low	Low
653	DPWBG	Wesley Bay Glade Wastewater Pump Station	1,755,705	5,911,244	1		Operational	Separate	Local	Onehunga	Unnamed stream (flowing to Wesley Bay)	Small waterway	2	2	1	1	Moderate	Moderate	1-4	Low	Low
652	DPWEB	Webber Street Wastewater Pump Station	1,754,174	5,920,100	1		Operational	Combined	Local	Coxs Bay	Cox's Creek	Small waterway	3	2	1	1	Moderate	Very high	> 8	Low	Low
650	DPWA1	Walker Road 1 Wastewater Pump Station	1,751,405	5,918,363	1		Operational	Separate	Local	Western Isthmus	Walker Road	Freshwater Wetlands	3	1	2	1	#N/A	#N/A	> 8		
648	DPTAH	Tahatai Street Wastewater Pump Station	1,764,668	5,909,033	1		Operational	Separate	Local	Upper Tamaki River	Upper Tamaki River (Middlemore Arm)	Estuary	3	2	1	1	Very low	Very low	4-8	Low	Low
644	DPTIM	Timothy Place Wastewater Pump Station	1,748,468	5,917,464	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	> 8	Low	Low
643	DPTYC	Tamaki Yacht Club Wastewater Pump Station	1,762,666	5,920,862	1		Operational	Separate	Local	Hobson Bay	Tamaki Yacht Club	Beach	2	2	1	1	Low	Very low	> 8	Low	Low
642	DPTAM	Tamaki Drive Wastewater Pump Station	1,764,684	5,920,029	1		Operational	Separate	Local	Hobson Bay	Madill's Stream	Small waterway	3	2	1	1	Very low	Moderate	> 8	Low	Low
641	DPSTH	St Heliers Wastewater Pump Station	1,765,393	5,920,063	1		Operational	Separate	Local	Hobson Bay	St Heliers Bay	Beach	1	2	1	1	Very High	High	4-8	Low	Medium

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640	DPSY2	Sylvania Crescent 2 Wastewater Pump Station	1,753,386	5,910,832	1		Operational	Separate	Local	Onehunga	Manukau Harbour edge (between Lynfield Cove and Wattle Bay)	Harbour	3	1	2	2	Very low	Very low	> 8	Low	Low
636	DPSAR	Sarsfield Street Wastewater Pump Station	1,754,600	5,921,267	1		Operational	Combined	Local	Coxs Bay	Home Bay	Beach	1	2	1	1	Very high	Very high	4-8	Low	Low
634	DPRB2	Rosebank Road 2 Wastewater Pump Station	1,749,015	5,917,538	1		Operational	Separate	Local	Whau River	Waterview Embayment	Basin	2	1	1	1	Low	Low	4-8	Low	Low
633	DPRID	Riddell Road Wastewater Pump Station	1,767,698	5,919,689	1		Operational	Separate	Local	Lower Tamaki River	Riddell Road Beach	Beach	2	2	2	2	Low	Very low	4-8	Low	Low
632	DPPUR	Purewa Road Wastewater Pump Station	1,762,111	5,918,436	1		Operational	Separate	Local	Hobson Bay	To land	To land							1-4		
630	DPPEN	Penrose Road Wastewater Pump Station	1,763,031	5,913,878	1		Operational	Separate	Local	Upper Tamaki River	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	4-8	Low	Low
629	DPPKI	Patiki Road Wastewater Pump Station	1,748,419	5,918,548	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
628	DPPNA	Panama Road Wastewater Pump Station	1,765,642	5,911,484	1		Operational	Separate	Local	Upper Tamaki River	Otahuhu Creek	Estuary	3	2	1	2	Very low	Very low	4-8	Low	Low
627	DPMLA	Meola Road Wastewater Pump Station	1,752,953	5,919,416	1		Operational	Separate	Local	Coxs Bay	Motions Creek Estuary	Estuary	2	2	1	1	Very high	Very high	1-4	Low	Low
626	DPMEA	Meadowbank Road Wastewater Pump Station	1,762,527	5,917,774	1		Operational	Separate	Local	Hobson Bay	Meadowbank Stream East	Small waterway	3	3	2	1	Very low	Very low	> 8	Low	Low
625	DPMED	Mead Street Wastewater Pump Station	1,749,709	5,916,482	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	1-4	Low	Low
624	DPMAC	Masefield Avenue Wastewater Pump Station	1,755,037	5,921,442	1		Sealed	Separate	Local	Coxs Bay	Home Bay	Beach	1	2	1	1	Very high	Very high	> 8	Low	Low
622	DPLEW	Lewis Street Wastewater Pump Station	1,752,015	5,912,008	1		Operational	Separate	Local	Whau River	Blockhouse Bay	Beach	1	2	1	1	Low	Very low	> 8	Low	Low
621	DPKEY	Kenley Place Wastewater Pump Station	1,749,236	5,915,985	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	1-4	Low	Low
620	DPJRP	John Rymer Place Wastewater Pump Station	1,763,816	5,918,478	1		Operational	Separate	Local	Hobson Bay	Purewa Stream	Small waterway	3	2	2	1	Very low	Moderate	4-8	Low	Low
618	DPHS2	Holly Street 2 Wastewater Pump Station	1,750,568	5,916,407	1		Operational	Separate	Local	Whau River	Waterview Embayment	Basin	2	1	1	1	Low	Low	> 8	Low	Low
617	DPHS1	Holly Street 1 Wastewater Pump Station	1,750,812	5,916,355	1		Operational	Separate	Local	Whau River	Waterview Embayment	Basin	2	1	1	1	Low	Low	1-4	Low	Low
616	DPWTB	Waterbank Crescent Wastewater Pump Station	1,751,562	5,917,766	1		Operational	Separate	Local	Western Isthmus	Lower Oakley Creek	Estuary	3	1	1	1	#N/A	#N/A	4-8		
615	DPHIM	Himalaya Crescent Wastewater Pump Station	1,752,881	5,911,134	1		Operational	Separate	Local	Onehunga	Manukau Harbour edge (between Lynfield Cove and Wattle Bay)	Harbour	3	1	2	2	Very low	Very low	4-8	Low	Low
613	DPGRA	Grand Drive Wastewater Pump Station	1,762,261	5,916,282	1		Operational	Separate	Local	Hobson Bay	Waiatarua Reserve Stream	Small waterway	3	3	2	1	Very low	Very low	> 8	Low	Low
612	DPKRA	Karaka Bay Wastewater Pump Station	1,767,328	5,920,151	1		Operational	Separate	Local	Lower Tamaki River	Karaka Bay	Beach	2	2	1	1	Low	Very low	> 8	Low	Low
611	DPGIL	Gillies Avenue Wastewater Pump Station	1,757,854	5,916,212	1		Operational	Separate	Local	Hobson Bay	To land	To land							4-8		
609	DPEND	Endeavour Street Wastewater Pump Station	1,751,453	5,911,636	1		Operational	Separate	Local	Whau River	Blockhouse Bay	Beach	1	2	1	1	Low	Very low	> 8	Low	Low
607	DPRB1	Rosebank Road 1 Wastewater Pump Station	1,749,684	5,917,070	1		Operational	Separate	Local	Whau River	Waterview Embayment	Basin	2	1	1	1	Low	Low	4-8	Low	Low
606	DPCLY	Connolly Avenue Wastewater Pump Station	1,756,364	5,914,640	1		Operational	Combined	Local	Western Isthmus	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land	> 8		
605	DPCSR	Captain Springs Road Wastewater Pump Station	1,760,412	5,911,772	1		Operational	Separate	Local	Onehunga	Mangere Inlet North	Basin	2	1	1	2	Low	Low	> 8	Low	Low
604	DPBJD	Ben James Drive Wastewater Pump Station	1,755,800	5,911,474	1		Operational	Separate	Local	Onehunga	Unnamed stream (flowing to Wesley Bay)	Small waterway	2	2	1	1	Moderate	Moderate	1-4	Low	Low
603	DPAVE	Averill Avenue Wastewater Pump Station	1,764,246	5,920,135	1		Operational	Separate	Local	Hobson Bay	Kohimarama Beach	Beach	1	2	1	1	Moderate	Low	1-4	Low	Low
602	DPATK	Atkin Avenue Wastewater Pump Station	1,763,032	5,920,278	1		Operational	Separate	Local	Hobson Bay	Unnamed stream - Mission Bay	Small waterway	3	3	1	1	Low	Low	> 8	Low	Low
598	DPABB	Abbotts Way Wastewater Pump Station	1,761,947	5,916,064	1		Operational	Separate	Local	Hobson Bay	Waiatarua Reserve Stream	Small waterway	3	3	2	1	Very low	Very low	4-8	Low	Low
597		296 Victoria Avenue	17,603,546	5,918,596	2		Operational	Separate	Local	Hobson Bay Catchment	Waitaramoa Stream	Small waterway	3	1	1	1	Low	Very high			

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196		8 Sarsfield Street	1,755,262	5,921,402	2		Decommissioned	Separate	Local	Coxs Bay	Home Bay	Beach	1	2	1	1	Very high	Very high		High	High
195		54 Sarsfield Street	1,754,890	5,921,317	2		Operational	Separate	Local	Coxs Bay	Home Bay	Beach	1	2	1	1	Very high	Very high		Low	Low
194		28 Sarsfield Street	1,755,138	5,921,375	2		Operational	Separate	Local	Coxs Bay	Home Bay	Beach	1	2	1	1	Very high	Very high		High	High
193		35 Yattendon Road	1,766,093	5,919,956	2		Operational	Separate	Local	Hobson Bay	St Heliers Bay	Beach	1	2	1	1	Very High	High		Medium	High
191	DPWTR	West Tamaki Road Wastewater Pump Station	1,767,621	5,917,576	1		Operational	Separate	Local	Lower Tamaki River	Lower Tamaki River	Estuary	2	1	1	1	Very low	Very low	> 8	Low	Low
189		109 Taniwha Street	1,766,605	5,917,102	2		Operational	Separate	Local	Lower Tamaki River	Omaru Creek	Small waterway	3	3	1	1	Moderate	Moderate		High	High
188		6 Concord Place	1,766,526	5,916,894	2		Operational	Separate	Local	Lower Tamaki River	Omaru Creek	Small waterway	3	3	1	1	Very low	Very low		Low	Low
185		53 Franklin Road	1,755,903	5,920,161	2		Operational	Separate	Local	Central Auckland (CBD) Catchment	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate			
183	DPWTN	95 Wellington Street	1,756,219	5,920,064	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
182		124 Collingwood Street	1,755,969	5,920,146	2		Operational	Separate	Local	Central Auckland (CBD) Catchment	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate			
176		Union Street	1,756,333	5,920,453	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Medium	High
172		1 London Street	1,755,956	5,921,014	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
169		Fanshawe Street/ Nelson Street	1,757,026	5,920,810	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
167		74 Cook Street	1,756,671	5,920,233	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
164		23A Inverary Avenue	1,757,959	5,916,278	2		Operational	Separate	Local	Hobson Bay	To land	To land	2	2	2	1	To Land	To Land		Low	Low
163		34 Riverview Road	1,765,964	5,914,295	2		Operational	Separate	Local	Lower Tamaki River	Lower Tamaki River	Estuary	2	2	2	1	Low	Low		Low	Medium
162		49 Dunkirk Road	1,766,220	5,914,916	2		Operational	Separate	Local	Lower Tamaki River	Lower Tamaki River	Estuary	2	2	2	1	Moderate	Moderate		Medium	Medium
161		155 Riverside Avenue	1,766,365	5,915,758	2		Operational	Separate	Local	Lower Tamaki River	Lower Tamaki River	Estuary	2	2	2	1	Very low	Very low		Low	Low
160		45 Ascot Avenue	1,760,504	5,916,412	2		Operational	Separate	Local	Hobson Bay	Waatarua Reserve Stream	Small waterway	2	2	2	1	Very low	Very low		Low	Low
152	DPJOA	Joan Street Wastewater Pump Station	1,751,787	5,919,957	1		Operational	Separate	Local	Western Isthmus	Point Chevalier Beach	Beach	1	2	1	1	Moderate	Low	> 8		
148		64 Smale Street	1,751,738	5,918,205	2		Operational	Separate	Local	Western Isthmus	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land			
146		68 Smale Street	1,751,709	5,918,200	2		Operational	Separate	Local	Western Isthmus	To land	To land	To Land	To Land	To Land	To Land	To Land	To Land			
139		18 Wainoni Avenue	1,751,527	5,918,539	2		Operational	Separate	Local	Western Isthmus	Coast near Bambury Close	Beach	2	2	2	1	#N/A	#N/A			
134		Durham Lane	1,757,350	5,920,581	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
131		Wolfe Street/ Hobson Street	1,757,195	5,920,913	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
130		15 Albert Street	1,757,368	5,920,856	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
129		19 Victoria Street West	1,757,350	5,920,445	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
128		11 Victoria Street East	1,757,375	5,920,413	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
127		1 Victoria Street West	1,757,344	5,920,426	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour									
123		12 Mayoral Drive B	1,757,159	5,920,147	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
121		11 Mayoral Drive	1,757,120	5,920,214	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
120		14 Mayoral Drive	1,757,057	5,920,143	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
119		67 Vincent Street B	1,756,978	5,920,098	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
118		162 Cook Street	1,757,001	5,920,112	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
117		67 Vincent Street A	1,756,959	5,920,079	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
116		15 Mayoral Drive B	1,757,119	5,920,162	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour									

EOP ID	Facility Code	EOP Name	X coord	Y coord	EOP Type	ADF	Status	System	Network	Catchment	Receiving Environment	RE Type	Recreational Class	Ecological Class	Cultural Class	Aesthetic Class	Public Health Risk	Ecological Risk	Available Storage Hours	Volume Range	Frequency Range
115		12 Mayoral Drive A	1,757,010	5,920,142	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
114		15 Mayoral Drive	1,757,118	5,920,164	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
113		8 Mayoral Drive	1,757,134	5,920,200	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
112		Wellesley Street West	1,757,197	5,920,247	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
109		267 Queen Street	1,757,291	5,920,223	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
108		301 Queen Street B	1,757,258	5,920,069	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
99		1 Greys Avenue	1,757,067	5,919,979	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
97		301 Queen Street A	1,757,155	5,920,000	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
95		327 Queen Street	1,757,131	5,919,887	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
93		89 Mayoral Drive	1,757,025	5,919,960	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
89		292 Queen Street	1,757,312	5,920,216	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
80		Lorne Street/ Victoria Street East	1,757,452	5,920,381	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
76		242 Queen Street	1,757,352	5,920,351	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
74		3a Lower Albert St	1,757,444	5,921,042	2		Operational	Separate	Local	Central Auckland (CBD) Catchment	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate			
59		27 Victoria Street	1,757,441	5,920,394	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
58		41 Kitchener Street	1,757,623	5,920,495	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
50		61 Beach Road	1,758,094	5,920,626	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
49		Quay Street	1,757,961	5,920,903	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
47		Short Street/ Anzac Avenue	1,757,993	5,920,609	2		Operational	Separate	Local	Central Auckland	Waitemata Harbour - CBD Edge	Harbour	2	3	1	1	Very high	Moderate		Low	Low
44	DPASH	Ash Street Wastewater Pump Station	1,749,843	5,915,004	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
42	DPLID	Lidcombe Place Wastewater Pump Station	1,750,374	5,916,592	1		Operational	Combined	Local	Whau River	Waterview Embayment	Basin	2	1	1	1	Low	Low	1-4	Low	Low
41	DPRVD	Riversdale Road Wastewater Pump Station	1,749,408	5,915,370	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	2	1	1	1	Very low	Very low	4-8	Low	Low
40		17 Victor Street	1,750,980	5,915,903	2		Operational	Separate	Local	Western Isthmus	Waterview Inlet (Saltaire Street)	Estuary	3	1	1	1	Moderate	Moderate			
39		Avondale Racecourse	1,751,023	5,915,074	2		Operational	Combined	Local	Western Isthmus	Small tributary of Whau Creek 1	Small Waterway	3	2	2	1	#N/A	#N/A			
38	DPSTR	Sceptre Place Wastewater Pump Station	1,749,357	5,915,778	1		Operational	Separate	Local	Whau River	Whau River Estuary	Estuary	3	2	2	1	Very low	Very low	4-8	Low	Low
37		3 Kelvinside Terrace	1,751,090	5,914,475	2		Operational	Separate	Local	Western Isthmus	Small tributary of Whau Creek 2	Small Waterway	3	2	2	1	#N/A	#N/A			
36		37 Saltaire Street	1,751,012	5,916,371	2		Operational	Separate	Local	Western Isthmus	Waterview Inlet (Saltaire Street)	Estuary	3	1	1	1	Moderate	Moderate			
10		38 La Rosa Street	1,749,083	5,911,643	2		Operational	Separate	Local	Whau River	Avondale Stream	Small waterway	3	3	1	1	Very low	Very low		Low	Low
8		16 Chilcot Road	1,745,804	5,918,257	2		Operational	Separate	Local	Henderson Creek	Henderson Creek (southern arm)	Estuary	2	1	1	1	Very low	Very low		Low	Low
7		14B Woodglen Road	1,746,473	5,913,873	2		Operational	Separate	Local	Henderson Creek	Waikumete Stream	Large waterway	3	2	2	1	Very low	Very low		Low	Low
6		50 Kingdale Road	1,744,853	5,919,642	2		Operational	Separate	Local	Henderson Creek	Lincoln Stream	Small waterway	3	2	2	1	Low	High		Medium	Medium
5		9 Glenford Lane	1,746,820	5,922,215	2		Operational	Separate	Local	Henderson Creek	Unnamed tributary to Henderson Creek	Small waterway	3	1	2	1	Very low	Very low		Low	Low
4		144-160 Triangle Road	1,744,306	5,921,899	2		Operational	Separate	Local	Henderson Creek	Rarawaru Stream	Small waterway	3	2	2	1	Low	High		Low	Medium
3		13 Ascot Avenue	1,744,420	5,919,675	2		Operational	Separate	Local	Henderson Creek	Taikata Stream	Small waterway	3	3	2	1	Very low	Very low		Low	Low

EOP ID	Facility Code	EOP Name	X coord	Y coord	EOP Type	ADF	Status	System	Network	Catchment	Receiving Environment	RE Type	Recreational Class	Ecological Class	Cultural Class	Aesthetic Class	Public Health Risk	Ecological Risk	Available Storage Hours	Volume Range	Frequency Range
2		25 Blethyn Place	1,746,033	5,919,037	2		Operational	Separate	Local	Henderson Creek	Henderson Creek (southern arm)	Estuary	2	1	1	1	Very low	Very low		Low	Low

Table C-2 Type 3 Overflows to Private Property Schedule, current June 2025. No new overflow sites were added to the schedule during this reporting period.

ID	Catchment	Type 3 Overflow Name	Estimated Freq (spills/ yr)	Estimated Freq Range	Estimated Vol Range	Receiving Environment	Accessibility	Public Health Effect	Aesthetic Effect	Aesthetic Risk	Public Health Risk
S137	Whau River	Karaka Street	0	Low	Low	Private Land	Good	High	High	Low	Yes
S136	Whau River	Kohekohe Street	0	Low	Low	Private Land	Good	High	High	Low	Yes
S105	Western Isthmus	A Richardson Rd	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S103	Onehunga	Canberra Ave	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S102	Western Isthmus	Parkinson Ave	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S101	Henderson Creek	Railside Ave	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S100	Pukekohe	Reynolds Rd	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S99	Whau River	Meredith St	1.6	Low	Low	Private Land	Good	High	High	Low	Yes
S97	Whau River	Taylor St	1.6	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S96	Upper Tamaki River	Clutha Cres	2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S95	Upper Tamaki River	Water St	2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S94	Upper Tamaki River	Barrie Ave	2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S93	Upper Tamaki River	Swaffield Rd	2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S92	Orewa	Moffat Rd	2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S91	East Coast Bays	Selwyn Cres	2.4	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S90	Onehunga	Epworth Ave	2.4	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S89	East Coast Bays	Rock Isle Rd	3.2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S88	Onehunga	Athenic Ave	3.2	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S87	Whangaparaoa	Zealandia Rd	3.6	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S86	Henderson Creek	Vodanovich Rd	4	Low	Low	Private Land	Good	High	High	Low	Yes
S81	Pukekohe	Helvetia Rd	4	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S80	Western Isthmus	Whitney St	3	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S79	Upper Harbour South	Gladys Ave	10	Medium	Low	Private Land	Good	High	High	Moderate	Yes

S77	Laingholm	Kauri Point Road	13	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S75	East Coast Bays	Beach Road	7	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S74	Henderson Creek	Candia Road	5	Medium	Low	Private Land	Good	High	High	Moderate	Yes
S72	Pahurehure Inlet	Crampton Place	1	Low	Low	Private Land	Good	High	High	Low	Yes
S68	East Coast Bays	Sunnybrae Branch Sewer MH 32	1	Low	Low	Private Land	Good	High	High	Low	Yes
S67	East Coast Bays	Masterton Rd	1	Low	Low	Private Land	Good	High	High	Low	Yes
S61	Whau River	West Lynn Branch MH 09	2	Low	Low	Private Land	Good	High	High	Low	Yes
S57	Mangere	Mangere Bridge Branch MH 01	1	Low	Low	Private Land	Good	High	High	Low	Yes
S56	Henderson Creek	Matipo Rd	1	Low	Low	Private Land	Good	High	High	Low	Yes
S53	Mangere	McKinstry Avenue	1	Low	Low	Private Land	Good	High	High	Low	Yes
S51	Western Isthmus	Seaview Tce	1	Low	Low	Private Land	Good	High	High	Low	Yes
S50	Western Isthmus	Carlton St	1	Low	Low	Private Land	Good	High	High	Low	Yes
S49	Western Isthmus	Dundale Ave	1	Low	Low	Private Land	Good	High	High	Low	Yes
S46	Western Isthmus	Hasbury Ave	2	Low	Low	Private Land	Good	High	High	Low	Yes
S45	Warkworth	Elizabeth St	5.5	Low	Low	Private Land	Good	High	High	Low	Yes
S40	Whau River	Gardner Avenue	1	Low	Low	Private Land	Good	High	High	Low	Yes
S37	Whau River	Hutchinson Ave	2.5	Low	Low	Private Land	Good	High	High	Low	Yes
S32	Mangere	Walmsely Road	2	Low	Low	Private Land	Good	High	High	Low	Yes
S29	East Coast Bays	Montrose Terrace	6.2	Medium	Low	Private Land	Limited	Medium	Low	Low	Yes
S28	East Coast Bays	A Nile Road	8	Medium	Low	Private Land	Limited	Medium	Low	Low	Yes
S27	East Coast Bays	Selwyn Crescent	3.6	Medium	Low	Private Land	Limited	Medium	Low	Low	Yes
S10	Whau River	A Firlle Place	0.6	Low	Low	Private Land	Good	High	High	Low	Yes
S7	Upper Tamaki River	Crown Crescent	1.6	Low	Low	Private Land	Limited	Medium	Low	Low	Yes
S5	Puhinui	Hain Ave	1.3	Low	Low	Private Land	Limited	Medium	Low	Low	Yes
S2	Mangere	Wedgwood Avenue	1.1	Low	Low	Private Land	Limited	Medium	Low	Low	Yes
S1	Mangere	Mascot Avenue	1.2	Low	Low	Private Land	Limited	Medium	Low	Low	Yes

Appendix D. Overflow Records for 2024-2025

Table D-1 All DWOs for 2024-25 reporting period

Table D-2 All WWOs for 2024-25 reporting period

Table D-3 Type 1 DWO trends

Table D-4 Type 1 WWO trends

Table D-5 Type 3 DWO trends

Table D-6 Type 3 WWO trends

Table D-1 All DWOs for 2024-25

Catchment	Date	EOP Type	Asset ID/ Facility Code/ Compkey2	Asset Name/ Address	Start time	Duration (mins)	Cause	Repeat (y/n)	Immediate Receiving Env	Pollution Level	Network	Pollution RE	Risk to public	Risk of stream contam	Risk of SW contam	Contam risk to beach/rec area	Overflow monitoring (y/n)	Ammonia level (ppm)	Prevent re- occurrence
Beachlands Maraetai	16/08/2024	3	2563094	Great North RD		n/a	Unknown	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	Flushed line, CCTV
Beachlands Maraetai	7/01/2025	3	2569826	Araminta PL		n/a	Fat	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	unblocked (no notes)
Beachlands Maraetai	8/01/2025	3	2569826	Araminta PL		n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	flushed line
Beachlands Maraetai	27/02/2025	3	2554937	Liberty CRES		n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	rods
Beachlands Maraetai	4/03/2025	3	2572090	Maraetai DR		n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	flushed line
Beachlands Maraetai	15/05/2025	3	2570246	Bell RD		n/a	Roots	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	CCTVd, flushed line.
Beachlands Maraetai	13/06/2025	3	2923938	Gateway AVE		n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	Jetted, clean up and disso.
Central Auckland CBD	5/07/2024	3	2487517	Franklin RD		n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	Unblocked line, CCTV
Central Auckland CBD	21/07/2024	3	2603606	Stratford ST		n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	Flushed line, CCTV, sucker truck, excavation
Central Auckland CBD	24/07/2024	3	2407284	Symonds ST		n/a	Unknown	No	Road/ footpath	L2	Local	SW network	yes	no	yes		n/a uncontrol- led	No info.	Flushed line
Central Auckland CBD	2/08/2024	3	2597545	Fanshawe ST		n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	Flushed line
Central Auckland CBD	13/08/2024	3	2599454	Hepburn ST		n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	Unblocked from IP
Central Auckland CBD	20/12/2024	3	2486270	Vincent ST		n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	flushed line
Central Auckland CBD	6/01/2025	3	2486270	Vincent ST		n/a	Rags	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol- led	No info.	flushed line
Central Auckland CBD	8/01/2025	3	2486270	Vincent ST		n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	flushed line
Central Auckland CBD	16/08/2024	3	81015773	Franklin RD		n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol- led	No info.	Back flushed line

Central Auckland CBD	16/08/2024	3	2598133	Wellington ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:49													
Central Auckland CBD	23/08/2024	3	2400758	Symonds ST	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line
					12:34													
Central Auckland CBD	11/09/2024	3	2487774	Greys AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:41													
Central Auckland CBD	10/10/2024	3	2488273	Vincent ST	n/a	Unknown	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:27													
Central Auckland CBD	8/11/2024	3	2488273	Vincent ST	n/a	Unknown	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:38													
Central Auckland CBD	22/09/2024	3	2489226	Howe ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:42													
Central Auckland CBD	25/09/2024	3	2515670	Maunsell RD	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed foreign debris and fat, cctv
					17:08													
Central Auckland CBD	21/10/2024	3	2402409	Greys AVE	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:19													
Central Auckland CBD	23/10/2024	3	2487459	White ST	n/a	Broken pipe	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, repair pipe
					8:45													
Central Auckland CBD	28/10/2024	3	2596312	Beresford SQ	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed wood from MH
					16:54													
Central Auckland CBD	2/11/2024	3	2484820	Franklin RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:38													
Central Auckland CBD	5/11/2024	3	2510916	Wakefield ST	n/a	Roots	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.5	removed roots
					10:48													
Central Auckland CBD	5/11/2024	3	2404013	Grafton RD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, sucked out debris
					12:35													
Central Auckland CBD	7/11/2024	3	2586136	Victoria ST-E	n/a	Foreign Object	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, removed concrete
					13:36													
Central Auckland CBD	13/11/2024	3	2487463	Queen ST	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, repair broken pipe
					8:54													
Central Auckland CBD	23/12/2024	3	2595774	Queen ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:30													

Central Auckland CBD	8/01/2025	3	2401601	Queen ST	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, flow test, CCTV requested
					15:02													
Central Auckland CBD	11/12/2024	3	2487723	Angelsea ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:36													
Central Auckland CBD	23/12/2024	3	2560496	Franklin RD	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	plunger
					23:44													
Central Auckland CBD	30/12/2024	3	2596062	Franklin RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repair pipe
					17:28													
Central Auckland CBD	10/01/2025	3	2596313	Hobson ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:35													
Central Auckland CBD	11/03/2025	3	2596313	Hobson ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					14:28													
Central Auckland CBD	5/01/2025	3	2590324	Quay ST	n/a	Fat	No	Road/footpath	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	Oppm	plunger
					16:29													
Central Auckland CBD	6/01/2025	3	2613473	Princes ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed mains, CSE requested, raised to central networks
					13:03													
Central Auckland CBD	13/01/2025	3	81004849	Percival PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:48													
Central Auckland CBD	14/01/2025	3	2487724	Ponsonby RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:58													
Central Auckland CBD	24/01/2025	3	2484900	Franklin RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:26													
Central Auckland CBD	28/01/2025	3	2608772	Parnell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock. Further investigations ordered.
					11:50													
Central Auckland CBD	4/02/2025	3	2508954	Sturdee ST	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:32													
Central Auckland CBD	17/02/2025	3	81016276	Vincent ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:30													
Central Auckland CBD	17/02/2025	3	2614961	Claybrook RD	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	1ppm	needs flushing
					15:57													

Central Auckland CBD	23/02/2025	3	2400585	Te Taou CRES	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					17:49													
Central Auckland CBD	24/02/2025	3	2483830	Princes ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:26													
Central Auckland CBD	27/02/2025	3	2400178	Mahuhu CRES	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					7:34													
Central Auckland CBD	2/03/2025	3	2454405	Beaumont ST	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:12													
Central Auckland CBD	6/03/2025	3	2590642	Beresford SQ	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:19													
Central Auckland CBD	10/03/2025	3	2481716	Victoria ST-W	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	remove bitumen via sucker truck
					23:35													
Central Auckland CBD	25/03/2025	3	2486270	Vincent ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:01													
Central Auckland CBD	2/04/2025	3	2616459	Corunna AVE	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.25ppm	Further work required, CCTV
					9:02													
Central Auckland CBD	3/04/2025	3	2597531	Viaduct Harbour AVE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:31													
Central Auckland CBD	28/01/2025	3	2404316	Carlton Gore RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:33													
Central Auckland CBD	28/01/2025	3	2404316	Carlton Gore RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					20:23													
Central Auckland CBD	29/01/2025	3	2404316	Carlton Gore RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:22													
Central Auckland CBD	24/04/2025	3	2405853	Margaret ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:50													
Central Auckland CBD	8/05/2025	3	2598056	Beresford ST	n/a	Unknown	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0	Flushed line.
					16:07													
Central Auckland CBD	1/05/2025	3	2499024	Symonds ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unable to find bloakge in main line. Needs further work.
					12:56													

Central Auckland CBD	10/06/2025	3	2602518	Beresford ST	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, wash down and disso.
					12:46													
Central Auckland CBD	12/06/2025	3	2602518	Beresford ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Escalated to unblock dropper in MH.
					22:29													
Central Auckland CBD	15/05/2025	3	1547973	Picton ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso
					20:08													
Central Auckland CBD	20/05/2025	3	2490826	Parliament ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblcoked, cleaned up and disso.
					19:48													
Central Auckland CBD	20/05/2025	3	2494686	Parnell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:42													
Central Auckland CBD	22/04/2025	3	2406263	Symonds ST	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Uncleared itself.
					9:11													
Central Auckland CBD	2/08/2024	3	2596062	Franklin RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed multiple times
					9:09													
Central Auckland CBD	24/09/2024	3	2596062	Franklin RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					8:51													
Central Auckland CBD	8/06/2025	3	2487509	Dedwood TCE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd and further works/investigations underway to fix the broken pipe.
					16:39													
Central Auckland CBD	13/06/2025	3	2484185	Wellington ST	n/a	Rubbish	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	Flushed, cleaned up.
					10:00													
Central Auckland CBD	10/04/2025	3	2487049	Jervois RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					15:11													
Central Auckland CBD	8/05/2025	3	2484000	Customs ST-W	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:23													
Central Auckland CBD	30/06/2025	3	2403104	Georgina ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked.
					10:29													

Central Auckland CBD	16/09/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	32	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	2/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	786	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	5/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	61	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	6/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	7	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	8/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	108	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	13/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	25	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	26/10/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	161	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	14/11/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	534	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	21/11/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	42	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	29/11/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	358	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	9/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	127	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	11/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	256	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	16/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	111	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	20/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	30	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	22/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	52	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	25/12/2024	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	65	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	3/01/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	84	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	20/01/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	50	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	25/01/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	141	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	16/02/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	58	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	17/03/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	23	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	19/03/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	90	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	2/04/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	1351	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	7/04/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	55	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	17/04/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	1016	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	26/04/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	964	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	29/04/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	1294	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	8/05/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	1018	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	18/05/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	59	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	26/05/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	818	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	28/05/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	306	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	3/06/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	978	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	8/06/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	1277	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	14/06/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	330	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	19/06/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	101	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	26/06/2025	2	712	Branch 5 Herne Bay MH2A/Overflow Scotland St Sewer Overflow Level	545	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmission	Harbour	yes	no	no	yes	yes	No info.	No info.

Central Auckland CBD	1/05/2025	3	2487049	Jervois RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed GT. Further works under progress.
					10:24													
Central Auckland CBD	2/10/2024	2	123	12 Mayoral Drive, Auckland CBD	60	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					21:15													
Central Auckland CBD	2/10/2024	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	70	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					21:10													
Central Auckland CBD	26/10/2024	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	15	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					17:25													
Central Auckland CBD	18/04/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	85	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					23:20													
Central Auckland CBD	4/06/2025	2	123	12 Mayoral Drive, Auckland CBD	30	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					13:20													

Central Auckland CBD	4/06/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	80	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					13:25													
Central Auckland CBD	27/06/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	55	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					3:40													
Clarks Beach	8/07/2024	3	2425143	Ronald AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					14:35													
Clarks Beach	22/10/2024	3	2425642	Torkar RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:40													
Clarks Beach	2/01/2025	3	2417559	Second AVE	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair pipe
					10:30													
Clarks Beach	14/03/2025	3	2563947	Mutetai RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	sucked out fats
					9:31													
Clarks Beach	19/03/2025	3	2530002	Stella DR	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pipe repair
					13:54													
Clarks Beach	14/09/2024	3	2532842	Torkar RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:11													
Clarks Beach	6/01/2025	3	2532842	Torkar RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to remove pipe
					11:53													
Clarks Beach	24/05/2025	3	2423919	Stella DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock and cleaned up.
					13:01													
Cockle Bay	15/07/2024	3	2458427	Bleakhouse RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:48													

Cockle Bay	23/07/2024	3	2562857	Alexander ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, new WO for repairs
					18:03													
Cockle Bay	24/07/2024	3	2569424	John Gill RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					18:29													
Cockle Bay	9/08/2024	3	2456633	The Esplanade	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:34													
Cockle Bay	12/08/2024	3	2482832	Cheriton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:11													
Cockle Bay	23/08/2024	3	2573235	Trident PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CSE
					7:49													
Cockle Bay	25/04/2025	3	2464175	View RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up and disso. Fat also present
					14:08													
Cockle Bay	1/11/2024	3	2566456	Alexander ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:32													
Cockle Bay	5/11/2024	3	2460891	McMillan PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rootcut, CCTV
					10:10													
Cockle Bay	29/11/2024	3	2562264	Uxbridge RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					7:50													
Cockle Bay	8/12/2024	3	2480108	Shelly Beach PDE	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:56													
Cockle Bay	21/12/2024	3	2567308	Sunnyview AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					10:50													
Cockle Bay	7/01/2025	3	2570261	Pohutukawa AVE	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	flushed line, pigtail
					16:09													
Cockle Bay	31/12/2024	3	2480108	Shelly Beach PDE	n/a	Fat	Yes	Car park	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	No info.	root removal
					9:20													
Cockle Bay	18/02/2025	3	2565842	Lastel PL	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:21													
Cockle Bay	19/02/2025	3	2457704	Trelawn PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtails
					10:58													
Cockle Bay	23/02/2025	3	2573243	The Glebe	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	Oppm	flushed line, root cut
					16:28													

Cockle Bay	4/03/2025	3	2457444	Tanglewood PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal, flushed line
					20:33													
Cockle Bay	11/03/2025	3	82816164	Jern PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:11													
Cockle Bay	21/04/2025	3	2457757	Sunnyview AVE	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Concrete, debris removed. Flushed and jetted. Raised MH to ground level.
					14:20													
Cockle Bay	5/05/2025	3	2562481	Mellons Bay RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso. Lime used.
					9:33													
Cockle Bay	14/06/2025	3	2454647	Pohutukawa AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal using rod.
					14:35													
Cox's Bay	18/07/2024	3	2599968	Summer ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:51													
Cox's Bay	27/07/2024	3	2593216	Firth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:03													
Cox's Bay	29/07/2024	3	2485598	Herne Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	FDEN raised to investigate cause
					9:26													
Cox's Bay	29/07/2024	3	2494509	Fife ST	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.25	Flushed line
					11:51													
Cox's Bay	2/08/2024	3	2485187	Summer ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dye test, CCTV, escalated to engineers
					11:57													
Cox's Bay	6/08/2024	3	2590116	Curran ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, rootcut
					11:10													
Cox's Bay	6/08/2024	3	2486015	Lincoln ST	n/a	Unknown	No	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrolled	3	Disinfect drain
					16:58													
Cox's Bay	19/08/2024	3	2507061	Webber ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					19:45													
Cox's Bay	19/08/2024	3	2604516	Crummer RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:53													

Cox's Bay	3/03/2025	3	2604516	Crummer RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared
					9:39													
Cox's Bay	4/09/2024	3	2485076	Selbourne ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up & repair, root removal
					10:13													
Cox's Bay	12/09/2024	3	2492742	Pompallier TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:49													
Cox's Bay	14/09/2024	3	2605166	Baildon RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:14													
Cox's Bay	4/10/2024	3	2602136	Herne Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, root removal
					12:16													
Cox's Bay	22/10/2024	3	2604522	Richmond RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:18													
Cox's Bay	26/07/2024	3	2596690	Faulder AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:27													
Cox's Bay	16/02/2025	3	2489386	Faulder AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:23													
Cox's Bay	23/01/2025	3	2487286	Faulder AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:07													
Cox's Bay	23/05/2025	3	2487286	Faulder AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					8:42													
Cox's Bay	30/10/2024	3	2461205	Browning ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:09													
Cox's Bay	5/11/2024	3	2598779	Williamson AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rootcut
					9:41													
Cox's Bay	12/11/2024	3	2552989	Schofield ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:32													
Cox's Bay	2/12/2024	3	2494504	Browning ST	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					6:42													
Cox's Bay	18/12/2024	3	2494504	Browning ST	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:02													
Cox's Bay	11/02/2025	3	2602653	Edgars RD	n/a	Foreign Object	Yes	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	flushed line
					9:05													

Cox's Bay	16/02/2025	3	2401595	Edgars RD	n/a	Unknown	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line, heavy flush and CCTV requested
					8:55													
Cox's Bay	2/12/2024	3	2494504	Browning ST	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	rootcut
					20:01													
Cox's Bay	15/12/2024	3	2485068	Grosvenor ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					9:14													
Cox's Bay	18/12/2024	3	2488035	Nottingha m ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					17:57													
Cox's Bay	21/12/2024	3	2486834	Chester AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line, cleared roots
					15:28													
Cox's Bay	6/01/2025	3	2606385	William Denny AVE	n/a	Unknown	Yes	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrol led	6 (at point of OF)	flushed line
					23:06													
Cox's Bay	10/01/2025	3	2606385	William Denny AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					11:22													
Cox's Bay	22/01/2025	3	2488012	Scanlan ST	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	CCTV, flushed line, escalated for further work (repair)
					14:25													
Cox's Bay	27/01/2025	3	2495052	O'Neill ST	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					12:20													
Cox's Bay	5/02/2025	3	2491953	Regina ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					12:38													
Cox's Bay	25/02/2025	3	2592090	Francis ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					15:42													
Cox's Bay	4/03/2025	3	2592090	Francis ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					13:39													
Cox's Bay	20/04/2025	3	2592090	Francis ST	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	further investigatio n required
					14:51													
Cox's Bay	26/04/2025	3	2592090	Francis ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed, clean up and disso. Cross connection issues
					9:56													

Cox's Bay	4/05/2025	3	2592090	Francis ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removed partially. Needs further work.
					10:11													
Cox's Bay	20/02/2025	3	2494504	Browning ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:17													
Cox's Bay	21/02/2025	3	2494512	West End RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					14:37													
Cox's Bay	26/02/2025	3	2599102	Jervois RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:16													
Cox's Bay	28/02/2025	3	2484437	Selwyn AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:28													
Cox's Bay	18/03/2025	3	2487362	Clarence ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:04													
Cox's Bay	13/08/2024	3	81005344	Selbourne ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:19													
Cox's Bay	22/11/2024	3	81005344	Selbourne ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, root removal, repair pipe
					12:18													
Cox's Bay	11/12/2024	3	81005344	Selbourne ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, escalated for further works.
					21:02													
Cox's Bay	17/04/2025	3	2485863	Selbourne ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:13													
Cox's Bay	18/04/2025	3	2486027	Selbourne ST	n/a	Roots	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25	Flushed line, recovered large roots, SW OF
					20:51													
Cox's Bay	25/03/2025	3	2599972	Westmorel and ST-E	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush, CCTV
					11:49													
Cox's Bay	31/03/2025	3	2594631	Winsome CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:18													
Cox's Bay	22/04/2025	3	2482144	John ST	n/a	3rd party damage	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Broken lateral to be fixed.
					10:05													
Cox's Bay	25/04/2025	3	2493238	Hakanoa ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, broken pipe needs to be fixed
					14:33													

Cox's Bay	26/04/2025	3	2482154	Old Mill RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Roots removed. Further works req.
					9:31													
Cox's Bay	16/06/2025	3	2482154	Old Mill RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:28													
Cox's Bay	3/05/2025	3	2605012	Meola RD	n/a	Unknown	No	Reserve/ park	L3	Local	Stream	yes	yes	no	no	n/a	6	Type 2 OF from EOP. Heavy Flushing.
					17:15													
Cox's Bay	5/05/2025	3	2496344	Richard ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Temporary fix - backfill hole and steel plate. More works underway.
					11:09													
Cox's Bay	1/02/2025	3	2595227	Sackville ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:26													
Cox's Bay	1/06/2025	3	2595227	Sackville ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed from IP, cleaned up and disso.
					14:46													
Cox's Bay	12/06/2025	3	2605137	Kelmarna AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunged to unblock, clean up and disso.
					11:02													
Cox's Bay	23/06/2025	3	2489624	Selbourne ST	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Roots removed.
					11:46													
Cox's Bay	5/08/2024	3	2488034	West End RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, sucker truck
					11:22													
Cox's Bay	19/08/2024	3	2488034	West End RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, dig up and remove roots
					10:44													
Cox's Bay	30/06/2025	3	2596365	Warnock ST	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Partial removal of roots. Escalated to complete roots removal.
					12:07													
Cox's Bay	21/07/2024	2	230	42 Wharf Road, Westmere	20	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:50													

Cox's Bay	31/07/2024	2	230	42 Wharf Road, Westmere	200	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:05													
Cox's Bay	3/08/2024	2	230	42 Wharf Road, Westmere	140	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:30													
Cox's Bay	17/08/2024	2	230	42 Wharf Road, Westmere	50	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:20													
Cox's Bay	5/09/2024	2	230	42 Wharf Road, Westmere	140	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:00													
Cox's Bay	8/09/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					2:15													
Cox's Bay	8/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	100	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					1:35													
Cox's Bay	10/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	35	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					18:20													
Cox's Bay	14/09/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	110	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					15:30													
Cox's Bay	14/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	415	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					15:25													
Cox's Bay	16/09/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	65	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					18:10													

Cox's Bay	16/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	1300	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					18:10													
Cox's Bay	19/09/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	270	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					8:10													
Cox's Bay	23/09/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	15	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					4:00													
Cox's Bay	23/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	40	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					4:00													
Cox's Bay	27/09/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	30	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:00													
Cox's Bay	2/10/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	475	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					20:05													
Cox's Bay	2/10/2024	2	267	216 Garnet Rd, Westmere	35	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:15													
Cox's Bay	2/10/2024	2	230	42 Wharf Road, Westmere	190	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Cox's Bay	2/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	980	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					19:15													

Cox's Bay	5/10/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	15	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	5/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	13:35	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	6/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	145	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	9/10/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	19:55	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	9/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	1:05	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	9/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	0:30	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	13/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	105	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	14/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	6:40	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	14/10/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	22:35	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	26/10/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	80	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	26/10/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	17:10	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.

Cox's Bay	26/10/2024	2	267	216 Garnet Rd, Westmere	15	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:25													
Cox's Bay	26/10/2024	2	230	42 Wharf Road, Westmere	50	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:05													
Cox's Bay	26/10/2024	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	265	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					16:55													
Cox's Bay	30/10/2024	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	55	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					0:25													
Cox's Bay	15/11/2024	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	305	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
					8:05													
Cox's Bay	15/11/2024	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	685	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					3:55													
Cox's Bay	21/11/2024	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	65	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					10:50													
Cox's Bay	30/11/2024	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	55	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
					8:05													
Cox's Bay	30/11/2024	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	705	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					7:50													

Cox's Bay	9/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	80	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	9/12/2024	2	230	42 Wharf Road, Westmere	50	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Cox's Bay	9/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	155	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	11/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	130	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	11/12/2024	2	230	42 Wharf Road, Westmere	30	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Cox's Bay	11/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	410	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	16/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	35	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	16/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	215	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	20/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	15	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.

Cox's Bay	20/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	50	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					18:00													
Cox's Bay	23/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	25	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					8:10													
Cox's Bay	23/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	110	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					3:45													
Cox's Bay	25/12/2024	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	95	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					23:45													
Cox's Bay	26/12/2024	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					2:10													
Cox's Bay	3/01/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	190	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:00													
Cox's Bay	21/01/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	15	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					12:00													
Cox's Bay	21/01/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	95	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					4:55													

Cox's Bay	25/01/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	90	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	25/01/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	290	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	17/02/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	90	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	19/03/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	55	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	3/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	835	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	3/04/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	1390	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	17/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	450	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	17/04/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	1415	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	17/04/2025	2	230	42 Wharf Road, Westmere	150	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.

Cox's Bay	18/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	70	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	18/04/2025	2	267	216 Garnet Rd, Westmere	145	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	20/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	40	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	20/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	50	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	27/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	70	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	27/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	90	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	27/04/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	1650	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	29/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	40	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	29/04/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	2080	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	2/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	70	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.

Cox's Bay	2/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	80	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					10:20												
Cox's Bay	4/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	160	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					7:25												
Cox's Bay	5/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	160	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					4:00												
Cox's Bay	6/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					6:55												
Cox's Bay	6/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	100	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					4:00												
Cox's Bay	8/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					18:05												
Cox's Bay	8/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	720	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					15:50												
Cox's Bay	8/05/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	2300	Unknown	Yes	Home Bay	Unknown	Local Beach	yes	no	no	yes	yes	No info.	No info.
					15:50												
Cox's Bay	8/05/2025	2	230	42 Wharf Road, Westmere	120	Unknown	Yes	Grey Lynn	Unknown	Local Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:40												
Cox's Bay	18/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission Beach	yes	no	no	yes	yes	No info.	No info.
					18:25												

Cox's Bay	18/05/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	300	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					16:10													
Cox's Bay	26/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	130	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					18:55													
Cox's Bay	26/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					16:45													
Cox's Bay	26/05/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	2250	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					16:50													
Cox's Bay	26/05/2025	2	230	42 Wharf Road, Westmere	20	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:05													
Cox's Bay	29/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					22:05													
Cox's Bay	29/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	50	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					17:45													
Cox's Bay	4/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	90	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					12:45													
Cox's Bay	4/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	460	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					11:20													

Cox's Bay	4/06/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	3235	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					10:35													
Cox's Bay	4/06/2025	2	230	42 Wharf Road, Westmere	80	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:00													
Cox's Bay	4/06/2025	2	267	216 Garnet Rd, Westmere	65	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:00													
Cox's Bay	8/06/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	3510	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					23:25													
Cox's Bay	14/06/2025	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	40	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
					21:55													
Cox's Bay	14/06/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	975	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					21:45													
Cox's Bay	15/06/2025	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
					0:45													
Cox's Bay	20/06/2025	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmissio n	Beach	yes	no	no	yes	yes	No info.	No info.
					2:10													
Cox's Bay	20/06/2025	2	201	Intersectio n of 97 Sarsfield and Lawrence Streets, Herne Bay	140	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					1:10													

Cox's Bay	26/06/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	1070	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					18:30													
Cox's Bay	27/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	440	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					8:10													
Cox's Bay	27/06/2025	2	230	42 Wharf Road, Westmere	120	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:30													
Cox's Bay	28/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					11:05													
Devonport-Takapuna	7/07/2024	3	2431758	Cameron ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:14													
Devonport-Takapuna	18/07/2024	3	2536587	Church ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared line, CCTVd
					11:37													
Devonport-Takapuna	5/08/2024	3	2436215	Vauxhall RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Rod line, flushed line
					12:59													
Devonport-Takapuna	8/08/2024	3	2527748	Mays ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, cleared roots
					13:33													
Devonport-Takapuna	9/08/2024	3	2430551	Beacholm RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:27													
Devonport-Takapuna	9/08/2024	3	2437037	Anzac ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:38													
Devonport-Takapuna	22/08/2024	3	2437037	Anzac ST	n/a	Broken pipe	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, CCTV, dig up and repair
					12:39													
Devonport-Takapuna	6/09/2024	3	2431638	Anzac ST	n/a	Broken pipe	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:44													
Devonport-Takapuna	28/09/2024	3	2440747	Sanders AVE	n/a	Broken pipe	No	On property	L3	Local	Beach	yes	no	no	yes	n/a uncontrolled	No info.	flushed line, cctv, repair dislodgments
					13:21													

Devonport-Takapuna	12/10/2024	3	2437069	Rewiti AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:57											n/a	uncontrolled	
Devonport-Takapuna	26/10/2024	3	2437752	Clifton RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, root removal
					16:19											n/a	uncontrolled	
Devonport-Takapuna	12/11/2024	3	2433847	Oratia DR	n/a	Foreign Object	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	plunger
					9:32											n/a	uncontrolled	
Devonport-Takapuna	14/01/2025	3	2441240	Clarence ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:01											n/a	uncontrolled	
Devonport-Takapuna	17/01/2025	3	2542541	Cheltenham RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, pig tail
					7:43											n/a	uncontrolled	
Devonport-Takapuna	12/01/2025	3	2541784	Jubilee AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root cut
					11:27											n/a	uncontrolled	
Devonport-Takapuna	24/01/2025	3	2522449	Old Lake RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					14:13											n/a	uncontrolled	
Devonport-Takapuna	28/01/2025	3	2546678	Gibbons RD	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line to remove grout inside line
					22:28											n/a	uncontrolled	
Devonport-Takapuna	30/01/2025	3	2546678	Blomfield Spa	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CSE to remove solids, flushed line, further investigation required
					21:16											n/a	uncontrolled	
Devonport-Takapuna	20/02/2025	3	81154875	Ewen ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:15											n/a	uncontrolled	
Devonport-Takapuna	5/05/2025	3	2437772	Lake RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Remove roots, flushed line, clean up and disso.
					2:59											n/a	uncontrolled	
Devonport-Takapuna	21/06/2025	3	2439196	The Promenade	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:16											n/a	uncontrolled	
Devonport-Takapuna	11/12/2024	2	848	1 Old Lake Rd, Narrow Neck	20	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					21:00													

Devonport-Takapuna	22/04/2025	2	848	1 Old Lake Rd, Narrow Neck	7600	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					16:45													
Devonport-Takapuna	22/04/2025	2	848	1 Old Lake Rd, Narrow Neck	7600	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:55													
East Coast Bays	20/02/2025	3	2424600	Anne RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:46													
East Coast Bays	22/03/2025	3	2424600	Anne RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:32													
East Coast Bays	1/07/2024	3	2435699	Carina CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, new WO for CCTV to confirm broken pipe
					20:17													
East Coast Bays	8/01/2025	3	2533042	Kiri PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:49													
East Coast Bays	12/04/2025	3	2438159	Kiri PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, CSE, rods
					14:39													
East Coast Bays	3/07/2024	3	2536872	Red Bluff RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					9:05													
East Coast Bays	4/07/2024	3	2539877	Weetman DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:30													
East Coast Bays	13/12/2024	3	2540846	Heathcote RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					20:41													
East Coast Bays	6/07/2024	3	2534422	Beach RD	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	Flushed line, suction CP
					12:51													
East Coast Bays	7/07/2024	3	2531227	Bond CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:59													
East Coast Bays	8/07/2024	3	2424150	Parr TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, roots removal
					8:23													
East Coast Bays	1/11/2024	3	2558800	Tonkin DR	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:51													
East Coast Bays	26/12/2024	3	2531894	Tonkin DR	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					7:17													

East Coast Bays	8/07/2024	3	2552298	Beechwood RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:12													
East Coast Bays	10/07/2024	3	2437989	Lake Pupuke DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:30													
East Coast Bays	12/07/2024	3	2429678	Downing ST	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV + root removal
					9:20													
East Coast Bays	5/02/2025	3	2551519	Craig RD	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:34													
East Coast Bays	8/02/2025	3	2548159	Craig RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:39													
East Coast Bays	4/03/2025	3	2540104	Craig RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:51													
East Coast Bays	6/03/2025	3	2551519	Craig RD	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:01													
East Coast Bays	18/09/2024	3	2535654	View RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:34													
East Coast Bays	19/09/2024	3	2535654	View RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:48													
East Coast Bays	21/07/2024	3	2544530	Phillipa PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:20													
East Coast Bays	21/07/2024	3	2437304	Cliff RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:55													
East Coast Bays	23/07/2024	3	2539780	Oaktree AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					10:19													
East Coast Bays	25/07/2024	3	2544889	Penzance RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:12													
East Coast Bays	25/07/2024	3	2431342	Target RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:25													
East Coast Bays	26/07/2024	3	2541037	East Coast RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:55													
East Coast Bays	26/07/2024	3	2453765	Penzance RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck
					8:13													

East Coast Bays	29/07/2024	3	2437484	Sandford ST	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes	n/a	0	Unblocked line
					12:14												
East Coast Bays	1/08/2024	3	2535234	Island Bay RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					10:57												
East Coast Bays	3/08/2024	3	2536168	Lyttelton AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line, removed roots
					22:07												
East Coast Bays	5/08/2024	3	2435633	Tyne RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Rod + flushed line
					12:17												
East Coast Bays	8/08/2024	3	2541578	Celina PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Rod line
					18:03												
East Coast Bays	8/08/2024	3	2538210	Lavery PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line, CCTV
					9:17												
East Coast Bays	9/08/2024	3	2531287	Fenwick AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					10:14												
East Coast Bays	14/08/2024	3	2541791	Cliff RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					10:08												
East Coast Bays	21/05/2025	3	2429792	Castor Bay RD	n/a	Fat	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info. Unblocked, washdown and disso.
					7:50												
East Coast Bays	24/05/2025	3	2429792	Castor Bay RD	n/a	Unknown	Yes	On property	L3	Local	SW network	no	no	yes	no	n/a	No info. Flushed to unblock, clean up and disso.
					14:53												
East Coast Bays	21/08/2024	3	2532105	Coronation RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line, removed roots from MH
					15:32												
East Coast Bays	21/08/2024	3	2429567	Sycamore DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					13:03												
East Coast Bays	24/08/2024	3	2449985	Beatrice AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					15:28												
East Coast Bays	25/08/2024	3	2436944	Sylvan Park AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Unblocked line from MH
					14:43												
East Coast Bays	26/08/2024	3	2431581	Beach RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					16:08												

East Coast Bays	26/08/2024	3	2536583	Penguin DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					8:58													
East Coast Bays	27/08/2024	3	2429833	Brian AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:25													
East Coast Bays	18/10/2024	3	2427256	Glamorgan DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked line
					11:23													
East Coast Bays	21/10/2024	3	2537880	Glamorgan DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV
					11:33													
East Coast Bays	27/08/2024	3	2550135	Sylvan Park AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblock
					9:39													
East Coast Bays	28/08/2024	3	2432633	Hogans RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:57													
East Coast Bays	30/08/2024	3	2435834	Honeysuckle LN	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:30													
East Coast Bays	30/08/2024	3	2531862	Bournemouth TCE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, escalate for repair
					8:33													
East Coast Bays	12/07/2024	3	2530209	Kitchener RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:30													
East Coast Bays	13/07/2024	3	2530209	Kitchener RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Didn't the pipe that wasn't previously
					18:05													
East Coast Bays	13/10/2024	3	2531327	Nile RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:23													
East Coast Bays	24/03/2025	3	2531327	Nile RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:01													
East Coast Bays	5/09/2024	3	2536539	Cockayne CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					19:00													
East Coast Bays	5/09/2024	3	2541043	Alexander AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:03													
East Coast Bays	10/09/2024	3	2426138	Alma RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:05													
East Coast Bays	12/09/2024	3	2532660	Glenvale PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, flushed line
					8:41													

East Coast Bays	16/09/2024	3	2431557	Quebec RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, rod, heavy flush
					13:32													
East Coast Bays	18/09/2024	3	2432985	The Promenade	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to remove roots
					14:46													
East Coast Bays	19/09/2024	3	2541418	Woodridge AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, roots removed
					14:30													
East Coast Bays	20/09/2024	3	1511842	Sharland AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					12:09													
East Coast Bays	22/09/2024	3	2535224	Prestige PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	root removal
					18:05													
East Coast Bays	23/09/2024	3	2532303	Midway AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:58													
East Coast Bays	24/09/2024	3	2528008	East Coast RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:15													
East Coast Bays	25/09/2024	3	2537022	Woodlands CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					11:30													
East Coast Bays	25/09/2024	3	2425481	Otakau RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					22:08													
East Coast Bays	26/09/2024	3	2541238	Picton ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:02													
East Coast Bays	26/09/2024	3	2541238	Hebron RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:09													
East Coast Bays	27/09/2024	3	2434677	Beach RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up & repair displaced joint
					20:50													
East Coast Bays	28/09/2024	3	2425042	Hogans RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					12:57													
East Coast Bays	30/09/2024	3	2543246	Oaktree AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted.
					9:45													
East Coast Bays	1/10/2024	3	2460040	Inverness RD	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					7:33													
East Coast Bays	2/10/2024	3	2543604	Blakeborough DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:51													

East Coast Bays	2/10/2024	3	2543699	Ceramco PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:57											n/a uncontrolled		
East Coast Bays	6/10/2024	3	2533759	Midway AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:44													
East Coast Bays	10/10/2024	3	2530071	Target RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:21													
East Coast Bays	12/10/2024	3	2530209	Kitchener RD	n/a	Fat	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	1	flushed line, CCTV
					8:52													
East Coast Bays	13/10/2024	3	2435607	Sunnynook RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:28													
East Coast Bays	14/10/2024	3	2548916	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, flushed line.
					21:07													
East Coast Bays	15/10/2024	3	1505897	East Coast RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:09													
East Coast Bays	11/05/2025	3	2444086	Fraser RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso. Heavy flush needed.
					11:59													
East Coast Bays	16/10/2024	3	2435649	Channel View RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lines.
					9:11													
East Coast Bays	16/10/2024	3	2432340	Wairau RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lines.
					10:29													
East Coast Bays	16/10/2024	3	2529271	Hillside RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	flushed line
					17:31													
East Coast Bays	24/09/2024	3	2530209	Kitchener RD	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:04													
East Coast Bays	20/10/2024	3	2540116	Malters PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					15:49													
East Coast Bays	20/10/2024	3	2540993	View RD	n/a	Silts	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0	flushed line
					10:51													
East Coast Bays	21/10/2024	3	2528814	Lingfield ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:04													
East Coast Bays	25/10/2024	3	2441148	Freya PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:55													

East Coast Bays	14/02/2025	3	2537703	Browns Bay RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, concrete breaker, bypass pump,
					14:41													
East Coast Bays	29/10/2024	3	2438190	Hurstmere RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					7:40													
East Coast Bays	29/10/2024	3	2454653	Sharon RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					10:17													
East Coast Bays	21/06/2025	3	2537703	Browns Bay RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:17													
East Coast Bays	30/10/2024	3	2433640	Clematis AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:58													
East Coast Bays	7/03/2025	3	2444081	Dalmeny CL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:17													
East Coast Bays	31/10/2024	3	2436438	Anzac RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:17													
East Coast Bays	14/03/2025	3	2438471	Dalmeny CL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:35													
East Coast Bays	1/11/2024	3	2424775	Wolsley AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots, fat + silt
					12:08													
East Coast Bays	5/11/2024	3	2526878	Bruce RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					10:51													
East Coast Bays	6/11/2024	3	2430000	Ceramco PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:01													
East Coast Bays	7/11/2024	3	2533236	Lake View RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:56													
East Coast Bays	7/11/2024	3	2426323	Hillside RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:00													
East Coast Bays	8/11/2024	3	2435000	Capricorn PL	n/a	Unknown	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Blockage cleared.
					7:33													
East Coast Bays	8/11/2024	3	2441629	East Coast RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:20													
East Coast Bays	6/12/2024	3	2533802	Rangitoto TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse to remove roots
					9:29													

East Coast Bays	21/02/2025	3	2533802	Rangitoto TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:53													
East Coast Bays	10/11/2024	3	2432375	Sherwood GRV	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a	1	repair displaced pipe
					8:42													
East Coast Bays	11/11/2024	3	2434958	Jeanette PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:33													
East Coast Bays	11/11/2024	3	2429605	Churchill RD	n/a	Rubbish	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cleared blockage
					11:59													
East Coast Bays	7/10/2024	3	2534949	Hogans RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	dig up & repair
					19:04													
East Coast Bays	17/11/2024	3	2425348	Marlborough AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rootcut
					11:06													
East Coast Bays	20/11/2024	3	2437231	Woodlands CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Blockage cleared.
					11:48													
East Coast Bays	20/11/2024	3	2537022	Woodlands CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	no notes
					8:15													
East Coast Bays	8/04/2025	3	2437204	Park RISE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:43													
East Coast Bays	12/08/2024	3	2538576	Datura PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:43													
East Coast Bays	19/08/2024	3	2538576	Datura PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:42													
East Coast Bays	13/03/2025	3	2538576	Datura PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flush
					10:33													
East Coast Bays	25/11/2024	3	2539235	Beach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:41													
East Coast Bays	31/03/2025	3	2431766	Holland RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:01													
East Coast Bays	3/04/2025	3	2431766	Holland RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, escalated for dig up and repair
					9:50													
East Coast Bays	22/11/2024	3	2535294	Limmer PL	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	no notes
					8:47													
East Coast Bays	21/12/2024	3	2535294	Limmer PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Repair pipe
					16:50													

East Coast Bays	29/11/2024	3	2548463	Braemar RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, escalated
					13:18													
East Coast Bays	2/12/2024	3	2430713	Heather PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					6:53													
East Coast Bays	2/12/2024	3	81012582	Tonkin DR	n/a	Unknown	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a	Oppm	flushed line
					10:39													
East Coast Bays	2/12/2024	3	2538501	Acacia RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:40													
East Coast Bays	6/12/2024	3	2428914	Maxwelton DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:29													
East Coast Bays	16/09/2024	3	2528276	Kitchener RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:01													
East Coast Bays	15/12/2024	3	2530209	Kitchener RD	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:39													
East Coast Bays	13/12/2024	3	2435516	Saddleback RISE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flushed line.
					9:11													
East Coast Bays	16/12/2024	3	2437313	Manutara AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pigtail, wash down
					9:43													
East Coast Bays	13/10/2024	3	1492531	Shakespeare RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:26													
East Coast Bays	7/06/2025	3	2539077	Wyoming AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					13:06													
East Coast Bays	21/12/2024	3	2528011	Glamorgan DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	pigtails, warthog, heavy flush
					12:17													
East Coast Bays	22/12/2024	3	2536285	Morton AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line,
					19:54													
East Coast Bays	27/12/2024	3	2435628	Kennedy AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CSE, flushed line
					18:31													
East Coast Bays	27/12/2024	3	2533562	Livingstone ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:30													
East Coast Bays	29/12/2024	3	2530900	Inga RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:12													
East Coast Bays	31/12/2024	3	2538585	Downing ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:45													

East Coast Bays	2/01/2025	3	2535255	Halder PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rods
					19:47													
East Coast Bays	3/01/2025	3	2435907	Wairau RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					15:36													
East Coast Bays	10/01/2025	3	2535366	Nile RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:59													
East Coast Bays	10/01/2025	3	2429178	Salamanca RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					9:09													
East Coast Bays	10/01/2025	3	2429178	Salamanca RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					10:22													
East Coast Bays	6/03/2025	3	2543339	Rock Isle RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:13													
East Coast Bays	17/01/2025	3	2533109	Katui ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV investigation required
					15:25													
East Coast Bays	20/01/2025	3	2539675	Brian AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					9:14													
East Coast Bays	20/01/2025	3	2527327	East Coast RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, escalated for pipe repair
					14:59													
East Coast Bays	20/01/2025	3	2549194	Nor'East DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root cut
					15:58													
East Coast Bays	22/01/2025	3	2523885	Ramillies PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:18													
East Coast Bays	23/01/2025	3	2534671	Merriefield AVE	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	CSE to remove roots
					10:20													
East Coast Bays	29/01/2025	3	2530073	Cypress PL	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, escalated for CSE
					8:35													
East Coast Bays	30/01/2025	3	2537062	Hogans RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:33													
East Coast Bays	30/01/2025	3	2428921	Manurere AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:44													
East Coast Bays	2/02/2025	3	2540241	John Downs DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:22													

East Coast Bays	2/02/2025	3	2429478	Knightsbridge DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					8:42													
East Coast Bays	2/02/2025	3	2537062	Normanton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					12:42													
East Coast Bays	4/02/2025	3	2540884	East Coast RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush uncontrolled
					10:10													
East Coast Bays	12/11/2024	3	2430769	Beacon AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					17:18													
East Coast Bays	21/11/2024	3	2430769	Beacon AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					16:59													
East Coast Bays	8/02/2025	3	2429778	Aberdeen RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					12:51													
East Coast Bays	22/12/2024	3	2430769	Beacon AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					15:23													
East Coast Bays	17/03/2025	3	2536846	Beacon AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					13:31													
East Coast Bays	8/02/2025	3	2535984	Saltburn RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					13:20													
East Coast Bays	8/02/2025	3	2547708	Penguin DR	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, heavy flush, ongoing flushes
					20:44													
East Coast Bays	20/04/2025	3	2430769	Beacon AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					12:35													
East Coast Bays	9/02/2025	3	2534647	Aberdeen RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					12:59													
East Coast Bays	9/02/2025	3	2532002	Quebec RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rootcut, escalated for CCTV and heavy flush
					14:20													
East Coast Bays	11/02/2025	3	2437341	Craig RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, more investigation required
					20:14													
East Coast Bays	12/02/2025	3	2536815	Shakespeare RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					11:26													

East Coast Bays	14/02/2025	3	2430244	Knightsbridge DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:17													
East Coast Bays	15/02/2025	3	81149400	Wolsley AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					22:25													
East Coast Bays	17/02/2025	3	2523883	Lyford CRES	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:30													
East Coast Bays	21/02/2025	3	2435750	Beach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCT, further investigation required
					10:42													
East Coast Bays	22/02/2025	3	2435321	Bellbird RISE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, root cut
					19:49													
East Coast Bays	16/10/2024	3	2438600	Kitchener RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lines to remove roots.
					9:07													
East Coast Bays	20/03/2025	3	2438600	Kitchener RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root cut, CSE
					11:31													
East Coast Bays	22/04/2025	3	2438600	Kitchener RD	n/a	Broken pipe	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleared blockage temporarily. Escalated to fix the broken pipe.
					15:22													
East Coast Bays	23/02/2025	3	2430961	Hillside RD	n/a	Rags	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:31													
East Coast Bays	24/02/2025	3	2439612	Marigold PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					16:23													
East Coast Bays	25/02/2025	3	2527297	Manutara AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:26													
East Coast Bays	26/02/2025	3	2544085	Phillipa PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtail, rods and Cse to remove roots
					17:14													
East Coast Bays	4/02/2025	3	2535068	Manutara AVE	n/a	Roots	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	1ppm	CSE to remove roots
					20:41													

East Coast Bays	27/02/2025	3	2432264	Stratford AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush, CCTV
					22:26													
East Coast Bays	28/02/2025	3	2429596	Rothesay Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flushing, CCTV requested
					9:12													
East Coast Bays	2/03/2025	3	2542376	Marlborough AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, flushed line
					8:43													
East Coast Bays	2/03/2025	3	2543506	Sylvan Park AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:38													
East Coast Bays	5/03/2025	3	2541063	Coromandel CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed line
					9:01													
East Coast Bays	6/03/2025	3	2542011	The Esplanade	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:30													
East Coast Bays	6/03/2025	3	2540896	Sylvan Park AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:00													
East Coast Bays	7/03/2025	3	2536703	Prospect TCE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Restore broken pipe
					12:30													
East Coast Bays	9/03/2025	3	2537703	Browns Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:42													
East Coast Bays	15/03/2025	3	2542702	Penguin DR	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:03													
East Coast Bays	18/03/2025	3	2532827	Tahu CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:40													
East Coast Bays	19/03/2025	3	2435777	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, pigtails, flushed line, CSE
					21:07													
East Coast Bays	20/03/2025	3	2538481	Celina PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtail, plunger, CSE
					18:20													
East Coast Bays	21/03/2025	3	2434465	Celina PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:23													
East Coast Bays	21/03/2025	3	2437484	Sandford ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Root removal
					15:52													

East Coast Bays	21/03/2025	3	2425634	Sunhaven AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:44											uncontrolled		
East Coast Bays	23/03/2025	3	2429744	Park RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root cut
					13:30											uncontrolled		
East Coast Bays	22/09/2024	3	2544204	Acacia RD	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	0	flushed line
					10:22											uncontrolled		
East Coast Bays	24/03/2025	3	2542097	Sandown RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:37											uncontrolled		
East Coast Bays	3/04/2025	3	2531353	Capricorn PL	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:27											uncontrolled		
East Coast Bays	5/04/2025	3	2548364	Beach RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:55											uncontrolled		
East Coast Bays	6/04/2025	3	2547707	Beach RD	n/a	Fat	No	Road/footpath	L2	Local	Estuary	yes	no	no	no	n/a	Oppm	flushed line
					18:13											uncontrolled		
East Coast Bays	7/04/2025	3	1510553	Beach RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:56											uncontrolled		
East Coast Bays	7/04/2025	3	2431355	Sunnynook RD	n/a	Unknown	No	On property	L3	Local	SW network	no	no	yes	no	n/a	No info.	flushed line
					22:12											uncontrolled		
East Coast Bays	10/04/2025	3	2534992	Valley RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:06											uncontrolled		
East Coast Bays	10/03/2025	3	2544204	Acacia RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:45											uncontrolled		
East Coast Bays	13/04/2025	3	2430772	Rae RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:46											uncontrolled		
East Coast Bays	13/04/2025	3	2430156	Centennial PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, escalated for repair
					9:29											uncontrolled		
East Coast Bays	14/04/2025	3	2440628	Carlisle RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:31											uncontrolled		
East Coast Bays	15/04/2025	3	2439591	Robin LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:24											uncontrolled		
East Coast Bays	18/04/2025	3	2432234	Commodore Parry RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:11											uncontrolled		
East Coast Bays	18/04/2025	3	2533075	Forrest Hill RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line. Fats also
					12:44											uncontrolled		

East Coast Bays	18/04/2025	3	1398808	Kiri PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					11:37													
East Coast Bays	15/08/2024	3	2424705	Otakau RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					12:28													
East Coast Bays	16/08/2024	3	2424705	Otakau RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Several rounds of flushing
					10:51													
East Coast Bays	7/12/2024	3	2424705	Otakau RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:59													
East Coast Bays	16/06/2025	3	2529784	Hatherlow ST	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed.
					12:13													
East Coast Bays	22/04/2025	3	2424964	Wykeham PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail used to remove roots and rubbish.
					9:33													
East Coast Bays	24/04/2025	3	2536294	Beach RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:29													
East Coast Bays	20/10/2024	3	2538063	Parr TCE	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line, repair dislodged joint
					9:39													
East Coast Bays	20/11/2024	3	2538063	Parr TCE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV requested
					22:21													
East Coast Bays	27/04/2025	3	2435079	Catalina CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, wash down and disso.
					9:07													
East Coast Bays	4/05/2025	3	2532534	Becroft DR	n/a	Unknown	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes		n/a uncontrolled	Not tested	Flushed, cleaned up and disso.
					8:18													
East Coast Bays	22/09/2024	3	2529803	East Coast RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repaired bypass pump
					11:25													
East Coast Bays	5/10/2024	3	2529803	East Coast RD	n/a	Power Failure	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repaired aqua sensor pump
					17:05													
East Coast Bays	5/05/2025	3	2431995	Shakespeare RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger. Cleaned up and disso.
					12:02													

East Coast Bays	5/05/2025	3	2537081	Hurstmere RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	damaged pipe fixed and service restored.
					9:43													
East Coast Bays	6/05/2025	3	2428364	Seine RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					12:23													
East Coast Bays	6/05/2025	3	2433526	Hillside RD	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					11:14													
East Coast Bays	8/05/2025	3	2527670	Target RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CSE to remove roots.
					13:45													
East Coast Bays	10/08/2024	3	2434951	Penguin DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					14:54													
East Coast Bays	5/01/2025	3	2540127	Penguin DR	n/a	Rags	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	3ppm	flushed line
					17:23													
East Coast Bays	10/03/2025	3	2435455	Squirrel LN	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed line
					11:05													
East Coast Bays	7/06/2025	3	2538181	Squirrel LN	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, cleaned up and disso.
					22:33													
East Coast Bays	11/05/2025	3	2533427	Braemar RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:55													
East Coast Bays	11/05/2025	3	2431481	Becroft DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					18:12													
East Coast Bays	11/05/2025	3	2435511	Freya PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					18:17													
East Coast Bays	12/05/2025	3	2527284	Sequoia PL	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleared roots.
					7:40													
East Coast Bays	12/05/2025	3	2440864	Wylie AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, Exscalated for CCTV and roots removal.
					9:30													
East Coast Bays	12/05/2025	3	2435511	Freya PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots.
					17:37													

East Coast Bays	13/05/2025	3	2429792	Castor Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and removed roots. Cleanup and disso.
					9:46													
East Coast Bays	13/05/2025	3	1516522	Bond CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned and disso.
					9:10													
East Coast Bays	13/05/2025	3	1386819	Kitchener RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots. Cleanup and disso.
					13:35													
East Coast Bays	17/05/2025	3	2423550	Nile RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:24													
East Coast Bays	17/05/2025	3	2537782	Glamorgan DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE root removal, clean up and disso.
					11:33													
East Coast Bays	18/05/2025	3	2440627	Nor'east DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Works still underway.
					15:59													
East Coast Bays	20/05/2025	3	2439593	Oaktree AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso. Needs further CSE to remove roots.
					14:39													
East Coast Bays	20/05/2025	3	2436813	Hebron RD	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Fixed 300mm pipe.
					15:56													
East Coast Bays	21/05/2025	3	2429153	Sequoia PL	n/a	Roots	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots. CCTVd and further investigations underway.
					17:16													
East Coast Bays	22/05/2025	3	2542433	Galaxy DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removal of roots, Flushed, clean up and disso.
					12:36													
East Coast Bays	25/05/2025	3	2430855	Castor Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd. Escalated to root removal.
					15:07													

East Coast Bays	25/05/2025	3	2540263	Richards AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked with rod. Disso used.
					15:04													
East Coast Bays	22/10/2024	3	2423550	Corunna RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:51													
East Coast Bays	17/05/2025	3	1392489	Corunna RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:59													
East Coast Bays	16/05/2025	3	2531110	Muritai RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up & disso
					9:16													
East Coast Bays	31/05/2025	3	2531110	Muritai RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal, flushed & CCTVd.
					16:40													
East Coast Bays	25/02/2025	3	2432334	Glenfield RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:32													
East Coast Bays	1/04/2025	3	1500591	Glenfield RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:17													
East Coast Bays	12/10/2024	3	2435643	Maxwelton DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked line
					12:39													
East Coast Bays	3/06/2025	3	1523878	Calypto PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, flushed and disso.
					15:46													
East Coast Bays	4/06/2025	3	2444459	Glamorgan DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Brokwn pipe fixed and reinstated.
					7:01													
East Coast Bays	6/06/2025	3	2437211	Landvale CT	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:54													
East Coast Bays	6/06/2025	3	2440505	Nigel RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Vacuum to unblock and CSE to clear roots
					11:38													
East Coast Bays	10/06/2025	3	2542199	Celina PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Pigtail to remove roots, flush, wash down and disso.
					14:37													
East Coast Bays	10/06/2025	3	2537204	Quebec RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned and disso.
					10:06													

East Coast Bays	14/06/2025	3	2548973	Beach RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso. CCTVd.
					14:55													
East Coast Bays	16/06/2025	3	2548973	Beach RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush, cctv
					16:02													
East Coast Bays	17/06/2025	3	2533993	Bond CRES	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up by Hydrox.
					16:22													
East Coast Bays	19/06/2025	3	2543603	Linwood AVE	n/a	Power Failure	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Fixed pump. Clean up and disso.
					9:43													
East Coast Bays	24/06/2025	3	2430911	Bournemo uth TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					11:47													
East Coast Bays	24/06/2025	3	2431068	Ellice RD	n/a	Silts	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes	no	n/a uncontrolled	No info.	Sucked up silt, flushed line, CCTVd.
					16:50													
East Coast Bays	28/06/2025	3	2433246	Sunnynook RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					16:28													
East Coast Bays	30/06/2025	3	2430916	Churchill RD	n/a	Foreign Object	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd, bypass pump setup until furtehr works conclude.
					14:47													
East Coast Bays	12/07/2024	3	DSMFD	Milford Branch Sewer TS6	n/a	Unknown	No	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					0:00													
East Coast Bays	3/07/2024	3	N/A	Tonkin Drive, Sunnynook . Overflow point is a gull trap located within the same property	20	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					12:00													
East Coast Bays	29/07/2024	3	N/A	Asbury Crescent, Campbells Bay	230	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					15:50													

East Coast Bays	9/12/2024	2	1595	11 Jonathan Place, Sunnynook	30	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:25													
East Coast Bays	11/12/2024	2	1595	11 Jonathan Place, Sunnynook	70	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:55													
East Coast Bays	9/12/2024	3	N/A	Woodstock Road, Forrest Hill	40	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					20:20													
East Coast Bays	11/12/2024	3	N/A	Woodstock Road, Forrest Hill	80	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					20:50													
East Coast Bays	14/06/2025	2	1595	11 Jonathan Place, Sunnynook	100	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:40													
East Coast Bays	14/06/2025	2	1576	16 Jutland Street Mairangi Bay	40	Unknown	Yes	Mairangi Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
East Coast Bays	10/06/2025	3	N/A	Woodstock Road, Forrest Hill	70	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					19:15													
East Coast Bays	30/06/2025	3	N/A	Woodstock Road, Forrest Hill	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					14:15													
Helensville	26/07/2024	3	2448210	Karaka ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:01													
Helensville	21/08/2024	3	2552575	Garfield RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck, escalated CCTV
					19:16													
Helensville	4/11/2024	3	2552575	Garfield RD	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed pipebridge
					18:04													
Helensville	16/09/2024	3	2546276	Makiri ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:29													
Helensville	2/10/2024	3	2548019	Parkhurst RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:41													

Helensville	3/11/2024	3	2551626	Makiri ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:34											n/a		
Helensville	3/11/2024	3	2551626	Ngaiwi ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:21											n/a		
Helensville	16/12/2024	3	2549654	Parkhurst RD	n/a	Fat	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:02											n/a		
Helensville	13/01/2025	3	2448210	Karaka ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pipe repair, rehaunching, tree removal
					10:27											n/a		
Helensville	7/12/2024	3	2442305	Springs RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, whipping hose
					15:30											n/a		
Helensville	3/02/2025	3	2444676	Springs RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:52											n/a		
Helensville	19/03/2025	3	2444676	Springs RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:39											n/a		
Helensville	4/12/2024	3	2542057	Springs RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:01											n/a		
Helensville	22/02/2025	3	2553123	Springs RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:05											n/a		
Helensville	25/03/2025	3	2548943	Cabeleigh DR	n/a	Unknown	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:45											n/a		
Helensville	23/04/2025	3	2549133	Mill RD	n/a	Broken pipe	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Fixed broken rising main.
					9:51											n/a		
Helensville	26/05/2025	3	2548945	Rautawhiri RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, CCTVd, cleaned up, vaccum WW chamber.
					16:43											n/a		
Helensville	22/06/2025	3	2550329	Commercial RD	n/a	Unknown	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Blockage Cleared.
					7:02											n/a		
Henderson Creek	1/07/2024	3	81010879	Glengarry RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots, flushed line
					13:13											n/a		

Henderson Creek	1/07/2024	3	81007248	Martin Jugum LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed line
					10:25													
Henderson Creek	1/07/2024	3	2511670	Kohu RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					8:53													
Henderson Creek	3/07/2024	3	2407763	Sunnyside RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:58													
Henderson Creek	4/07/2024	3	2416582	Poinsettia PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					17:09													
Henderson Creek	4/07/2024	3	2519296	Keegan DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:58													
Henderson Creek	7/07/2024	3	2404123	Cedar Heights AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:18													
Henderson Creek	8/07/2024	3	2418343	Moire RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					20:11													
Henderson Creek	3/01/2025	3	2410483	Sturges RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:48													
Henderson Creek	13/07/2024	3	2408287	Seymour RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line, removed roots + fat
					11:42													
Henderson Creek	17/07/2024	3	2522883	Lasque PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cut & removed roots, flushed line
					11:25													
Henderson Creek	6/07/2024	3	2412290	Millbrook RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:39													
Henderson Creek	8/07/2024	3	2412900	Millbrook RD	n/a	Roots	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line
					15:51													
Henderson Creek	15/06/2025	3	2409119	Matuhi RISE	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					17:40													
Henderson Creek	19/07/2024	3	2510134	Tagor ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					13:09													
Henderson Creek	4/02/2025	3	2420995	Faram PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:27													

Henderson Creek	25/07/2024	3	2409093	Tumanaka PL	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0	Flushed line several times
					11:50													
Henderson Creek	25/07/2024	3	2410966	Border RD	n/a	Rags	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					6:44													
Henderson Creek	25/07/2024	3	2414059	View RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:16													
Henderson Creek	9/04/2025	3	2420995	Faram PL	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:39													
Henderson Creek	26/07/2024	3	2516217	Pooks RD	n/a	Unknown	No	On property	L2	Local	Garden pond	yes	no	no	no	n/a uncontrolled	0.5	Flushed line
					17:49													
Henderson Creek	14/11/2024	3	2513337	Pyrite ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed roots, flushed line
					11:57													
Henderson Creek	16/12/2024	3	2513337	Pyrite ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger
					11:19													
Henderson Creek	2/08/2024	3	81008924	Triangle RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:07													
Henderson Creek	4/08/2024	3	2411848	Woodglen RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:30													
Henderson Creek	6/08/2024	3	2407298	Railside AVE	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Rod + flushed line
					19:38													
Henderson Creek	19/08/2024	3	2519209	Vodanovich RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:29													
Henderson Creek	29/08/2024	3	2519209	Vodanovich RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:42													
Henderson Creek	7/08/2024	3	2417650	Woodglen RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucker truck
					13:05													
Henderson Creek	3/09/2024	3	2519209	Vodanovich RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:03													
Henderson Creek	10/08/2024	3	81006558	Ciprian PL	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dig up + repair
					17:17													
Henderson Creek	10/08/2024	3	82840318	Tudor RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed line
					13:41													

Henderson Creek	16/03/2025	3	2406455	Kashmir RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:51													
Henderson Creek	21/03/2025	3	2407225	Kashmir RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:17													
Henderson Creek	12/08/2024	3	2409307	Aldern RD	n/a	Broken pipe	No	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Repaired pipe
					14:37													
Henderson Creek	12/08/2024	3	2416767	Metcalfe RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck
					17:52													
Henderson Creek	20/02/2025	3	2416767	Metcalfe RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:56													
Henderson Creek	14/08/2024	3	2520468	Brookwood DR	n/a	Unknown	No	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Rod line, flushed line
					13:39													
Henderson Creek	15/08/2024	3	81156454	Edmonton RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line many times
					16:16													
Henderson Creek	15/08/2024	3	2407307	Bruce McLaren RD	n/a	Fat	No	On property	L3	Local	SW network	no	yes	yes	no	n/a uncontrolled	No info.	Flushed line
					7:50													
Henderson Creek	15/08/2024	3	2512438	Flanshaw RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:57													
Henderson Creek	16/08/2024	3	2413654	Sunvue RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dye test,CCTV, escalated job
					7:31													
Henderson Creek	16/08/2024	3	2452032	San Prospero CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucker truck, flushed line
					8:25													
Henderson Creek	16/08/2024	3	2412008	Vintage DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times
					8:25													
Henderson Creek	16/08/2024	3	2451977	Sturges RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:07													
Henderson Creek	16/08/2024	3	2424567	Midhurst AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:09													
Henderson Creek	16/08/2024	3	2412976	Summerland DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					19:21													
Henderson Creek	19/08/2024	3	2418283	Charlenne CL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:16													

Henderson Creek	20/08/2024	3	82510541	Barrel CRES	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:38													
Henderson Creek	20/08/2024	3	2412076	Tawini RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:27													
Henderson Creek	21/08/2024	3	2523170	Cirrus WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line, removed roots
					10:37													
Henderson Creek	28/01/2025	3	2411215	Armada DR	n/a	Rags	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	3	flushed line
					14:48													
Henderson Creek	31/05/2025	3	2521897	Armada DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					12:52													
Henderson Creek	22/08/2024	3	2420094	Colwill RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line from DS MH
					9:14													
Henderson Creek	9/07/2024	3	2565750	Choice AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line several times
					9:19													
Henderson Creek	16/07/2024	3	2565750	Choice AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					15:01													
Henderson Creek	23/08/2024	3	2517349	Don Buck RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck
					20:48													
Henderson Creek	25/08/2024	3	81006900	Konini RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					19:01													
Henderson Creek	27/08/2024	3	81156524	Kaurimu RISE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dig up + repair
					17:10													
Henderson Creek	28/08/2024	3	2416379	Redlands GRV	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:42													
Henderson Creek	28/08/2024	3	2417330	Fitzherbert AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:01													
Henderson Creek	30/08/2024	3	82786884	Yeovil RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:25													
Henderson Creek	2/09/2024	3	2423403	West Coast RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:53													
Henderson Creek	3/09/2024	3	2406765	John Webster PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	remove iron rod from manhole
					18:35													

Henderson Creek	10/09/2024	3	1479253	Ulrich DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:54											n/a	uncontrolled	
Henderson Creek	11/09/2024	3	2420185	Titirangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:17											n/a	uncontrolled	
Henderson Creek	13/09/2024	3	2406479	Autumn AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, pipe repair
					8:57											n/a	uncontrolled	
Henderson Creek	14/09/2024	3	2411008	Glendale RD	n/a	Fat	No	On property	L3	Local	Stream	no	yes	no	no	n/a	3ppm	flushed line, heavy flush, CCTV, CSE
					15:57											n/a	uncontrolled	
Henderson Creek	11/07/2024	3	2409215	Newington RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for CCTV
					12:03											n/a	uncontrolled	
Henderson Creek	13/10/2024	3	2409533	Thomas AVE	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					14:03											n/a	uncontrolled	
Henderson Creek	28/12/2024	3	2409533	Thomas AVE	n/a	Broken pipe	Yes	On property	L2	Local	Estuary	yes	no	no	no	n/a	No info.	flushed line, escalated for review
					9:17											n/a	uncontrolled	
Henderson Creek	20/02/2025	3	2411418	Metcalfe RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					6:53											n/a	uncontrolled	
Henderson Creek	21/09/2024	3	2415460	West Harbour DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					15:15											n/a	uncontrolled	
Henderson Creek	22/08/2024	3	2417385	Sabot PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Back-flushed line
					8:40											n/a	uncontrolled	
Henderson Creek	5/09/2024	3	2421353	Sabot PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:53											n/a	uncontrolled	
Henderson Creek	22/09/2024	3	2413258	Seymour RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal, cctv, dig up & repair break
					13:46											n/a	uncontrolled	
Henderson Creek	21/09/2024	3	2417657	Sabot PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:43											n/a	uncontrolled	
Henderson Creek	23/09/2024	3	2408458	View RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cse to remove roots
					14:01											n/a	uncontrolled	
Henderson Creek	25/09/2024	3	2406765	John Webster PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cse for root removal
					6:36											n/a	uncontrolled	

Henderson Creek	25/09/2024	3	2524005	Simpson RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:41													
Henderson Creek	25/09/2024	3	2412250	Titirangi RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:42													
Henderson Creek	26/09/2024	3	2416548	Waimumu RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed
					13:23													
Henderson Creek	27/09/2024	3	1460412	Simmental CRES	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	roots removed
					11:10													
Henderson Creek	27/09/2024	3	2409540	Royal View RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed
					9:20													
Henderson Creek	27/09/2024	3	2406781	Onedin PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:09													
Henderson Creek	29/09/2024	3	2416259	Swanson RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					22:59													
Henderson Creek	30/09/2024	3	2414247	Pomaria RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repositioned bypass hose
					13:20													
Henderson Creek	18/06/2025	3	2407117	Backhurst GRV	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:23													
Henderson Creek	24/06/2025	3	2509680	Backhurst GRV	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Backflushed to unblock, washdown and disso.
					15:33													
Henderson Creek	12/07/2024	3	2407883	Taranui PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:36													
Henderson Creek	7/09/2024	3	2407883	Taranui PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:28													
Henderson Creek	12/04/2025	3	2408969	The Drive	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:25													
Henderson Creek	5/10/2024	3	2404938	Triangle RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:35													
Henderson Creek	20/04/2025	3	1345354	Universal DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up, disso & CCTV
					17:18													
Henderson Creek	6/10/2024	3	2562417	Titirangi RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:19													

Henderson Creek	8/10/2024	3	2407782	View RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:45											n/a		
Henderson Creek	11/10/2024	3	2412640	Cherry Tree PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:18											n/a		
Henderson Creek	11/10/2024	3	2406467	Atkinson RD	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a	0	flushed line
					19:03											n/a		
Henderson Creek	14/10/2024	3	2412177	Glenbervie CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					22:33											n/a		
Henderson Creek	16/10/2024	3	2513680	Te Atatu RD	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:21											n/a		
Henderson Creek	17/10/2024	3	2408150	Brunner RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					12:22											n/a		
Henderson Creek	17/10/2024	3	1419578	Kaikoura ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots and flushed line.
					20:28											n/a		
Henderson Creek	18/01/2025	3	2411332	Konini RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pigtail, flushed line
					13:08											n/a		
Henderson Creek	18/10/2024	3	1473331	Newland GRV	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					9:06											n/a		
Henderson Creek	13/07/2024	3	2408547	Kereru ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					16:55											n/a		
Henderson Creek	18/05/2025	3	2408547	Kereru ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					11:03											n/a		
Henderson Creek	21/10/2024	3	2513672	Universal DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:26											n/a		
Henderson Creek	1/06/2025	3	2408547	Kereru ST	n/a	Rags	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	0	Flushed main line, clean up and disso.
					16:27											n/a		
Henderson Creek	22/10/2024	3	1421784	Spence RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	dig up & repair
					11:53											n/a		
Henderson Creek	18/02/2025	3	2408951	Lincoln RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:02											n/a		
Henderson Creek	21/02/2025	3	2408951	Lincoln RD	n/a	Roots	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					7:28											n/a		
Henderson Creek	22/10/2024	3	2418277	Tollana RD	n/a	Broken pipe	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	No info.	bypass installed
					16:27											n/a		

Henderson Creek	23/10/2024	3	2524069	Harbour View RD	n/a	Broken pipe	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0.5	repair underway, bypass replaced with larger one
					8:02													
Henderson Creek	23/10/2024	3	2406781	Onedin PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. CCTVd.
					13:28													
Henderson Creek	25/10/2024	3	2409416	Harrington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:11													
Henderson Creek	27/01/2025	3	2415918	Don Buck RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, displaced joint repaired
					18:44													
Henderson Creek	29/10/2024	3	2414035	Autumn AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:57													
Henderson Creek	31/10/2024	3	2416796	Glendale RD	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	repair broken joint
					8:38													
Henderson Creek	6/07/2024	3	2417855	Universal DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					13:29													
Henderson Creek	1/11/2024	3	2403899	Sturm AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:56													
Henderson Creek	11/05/2025	3	1351369	Universal DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					7:58													
Henderson Creek	2/11/2024	3	2519136	Swanson RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:28													
Henderson Creek	2/11/2024	3	2514405	Woodfern CRES	n/a	Unknown	No	Reserve/park	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	Oppm	flushed line
					9:32													
Henderson Creek	5/11/2024	3	2409064	Woodside RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:57													
Henderson Creek	5/11/2024	3	1349943	Flanshaw RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:12													
Henderson Creek	7/11/2024	3	2412760	Cinnabar PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:27													
Henderson Creek	8/11/2024	3	2530929	Puketitiro ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to fix benching
					12:02													

Henderson Creek	11/11/2024	3	2509519	Evans RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	remove roots, repair dislodged pipe
					12:49													
Henderson Creek	31/01/2025	3	2407334	West Coast RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					6:11													
Henderson Creek	10/02/2025	3	2509204	West Coast RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:38													
Henderson Creek	12/11/2024	3	2510740	South Pacific PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:50													
Henderson Creek	14/11/2024	3	2525033	Millbrook RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					21:48													
Henderson Creek	5/07/2024	3	2404446	McLeod RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:08													
Henderson Creek	14/11/2024	3	2420170	Colwill RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Replacement pipe installed.
					8:18													
Henderson Creek	22/07/2024	3	2412290	Millbrook RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:14													
Henderson Creek	30/03/2025	3	2412290	Millbrook RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:19													
Henderson Creek	19/11/2024	3	2414255	Palomino DR	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	rootcut
					19:30													
Henderson Creek	21/11/2024	3	2508807	Pankhurst PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:04													
Henderson Creek	24/11/2024	3	2406764	Stallard PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					8:33													
Henderson Creek	25/11/2024	3	1466647	Sturges RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for CCTV due to repeat OFs
					8:39													
Henderson Creek	25/11/2024	3	2409503	Rehia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:14													
Henderson Creek	30/11/2024	3	2415378	Swanson RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					16:16													
Henderson Creek	3/12/2024	3	2408961	Seymour RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:27													

Henderson Creek	3/12/2024	3	2410652	Kotuku ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	break down fats
					8:49													
Henderson Creek	24/09/2024	3	2516364	Pomaria RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, heavy flush
					9:59													
Henderson Creek	6/02/2025	3	2413885	Pomaria RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:45													
Henderson Creek	4/12/2024	3	81007168	Te Atatu RD	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					15:37													
Henderson Creek	5/12/2024	3	2521054	Lowtherhurst RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:16													
Henderson Creek	7/12/2024	3	2408645	Lowtherhurst RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:02													
Henderson Creek	8/12/2024	3	2414199	Vintage DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:45													
Henderson Creek	8/12/2024	3	2424306	Totara RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					3:14													
Henderson Creek	13/12/2024	3	2511300	Coburg ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					11:13													
Henderson Creek	14/12/2024	3	2509830	Vintage DR	n/a	Fat	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	No info.	flushed line
					19:37													
Henderson Creek	14/12/2024	3	2507427	Great North RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					9:16													
Henderson Creek	14/12/2024	3	2408567	Sunhill RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repaired the sewer pipe
					19:08													
Henderson Creek	14/12/2024	3	2409000	Kervil AVE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:33													
Henderson Creek	16/12/2024	3	2518037	Bayside AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:25													
Henderson Creek	16/12/2024	3	2522859	Vodanovich RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:34													
Henderson Creek	18/12/2024	3	2415227	Riverpark CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:43													
Henderson Creek	18/12/2024	3	2510617	Kotuku ST	n/a	Silts	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	CCTV, flushed line
					14:36													

Henderson Creek	19/12/2024	3	2415341	Poinsettia PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					9:47													
Henderson Creek	19/12/2024	3	2407430	Colwill RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:46													
Henderson Creek	21/12/2024	3	2413303	Captain Scott RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:07													
Henderson Creek	28/11/2024	3	2410310	Glendale RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:00													
Henderson Creek	23/12/2024	3	2408127	Brunner RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:33													
Henderson Creek	23/12/2024	3	2516312	Edmonton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:24													
Henderson Creek	23/12/2024	3	2509711	Cedar Heights AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:08													
Henderson Creek	11/12/2024	3	2410310	Glendale RD	n/a	Roots	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, cctv, root removal with pigtailed
					10:29													
Henderson Creek	23/12/2024	3	2412878	Kopiko RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods
					14:29													
Henderson Creek	24/12/2024	3	2519625	Taranui PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv, root cut
					11:40													
Henderson Creek	24/12/2024	3	2408778	Alidade PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:26													
Henderson Creek	26/12/2024	3	2410094	Blockhouse Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					16:31													
Henderson Creek	26/12/2024	3	2410094	Wilson RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:01													
Henderson Creek	5/01/2025	3	2414362	Oratia DR	n/a	Unknown	Yes	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					18:35													
Henderson Creek	27/12/2024	3	2409578	Wilsher CRES	n/a	Rags	No	Reserve/ park	L2	Local	Estuary	yes	no	no	no	n/a	No info.	flushed line
					9:37													
Henderson Creek	27/12/2024	3	2408121	Palomino DR	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, cctv
					6:27													

Henderson Creek	27/12/2024	3	2406248	Woodfern CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:26											n/a uncontrolled		
Henderson Creek	24/08/2024	3	81158087	Konini RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Rod line
					13:21											n/a uncontrolled		
Henderson Creek	19/01/2025	3	2407848	Konini RD	n/a	Fat	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	steel rods
					8:47											n/a uncontrolled		
Henderson Creek	30/12/2024	3	2528137	Aldern RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Nova coil repair
					6:57											n/a uncontrolled		
Henderson Creek	30/12/2024	3	2413477	View RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:33											n/a uncontrolled		
Henderson Creek	30/12/2024	3	2409043	Flanshaw RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CSE root removal
					14:29											n/a uncontrolled		
Henderson Creek	30/05/2025	3	2409165	Rathgar RD	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					10:46											n/a uncontrolled		
Henderson Creek	3/01/2025	3	2510617	Kotuku ST	n/a	Fat	No	Road/footpath	L3	Local	SW network	yes	no	yes		n/a	0.5ppm	flushed line
					13:30											n/a uncontrolled		
Henderson Creek	22/07/2024	3	2518282	Edmonton RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					12:57											n/a uncontrolled		
Henderson Creek	25/07/2024	3	2518282	Edmonton RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					11:59											n/a uncontrolled		
Henderson Creek	5/01/2025	3	2421592	Easter PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE to remove roots
					18:50											n/a uncontrolled		
Henderson Creek	5/01/2025	3	2406881	Konini RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:41											n/a uncontrolled		
Henderson Creek	6/01/2025	3	2415341	Poinsettia PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:55											n/a uncontrolled		
Henderson Creek	6/01/2025	3	81008143	Triangle RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	no notes
					10:45											n/a uncontrolled		
Henderson Creek	6/01/2025	3	2518026	Taikata RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					19:37											n/a uncontrolled		
Henderson Creek	7/01/2025	3	2412886	Clover DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:42											n/a uncontrolled		
Henderson Creek	7/01/2025	3	2514506	Konini RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:24											n/a uncontrolled		

Henderson Creek	8/01/2025	3	2410424	Oates RD	n/a	Unknown	No	Reserve/ park	L2	Local	Stream	yes	yes	no	no	n/a uncontrol led	0.25ppm	CCTV requeste d
					22:34													
Henderson Creek	8/01/2025	3	2616385	McWhirter s Farm LN	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	heavy flush
					13:45													
Henderson Creek	8/01/2025	3	2412296	Konini RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	CCTV, no further notes
					16:45													
Henderson Creek	9/01/2025	3	81009143	Glengarry RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					17:13													
Henderson Creek	10/01/2025	3	2513545	Glengarry RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	heavy flush
					11:34													
Henderson Creek	11/01/2025	3	2410916	Glengarry RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					13:07													
Henderson Creek	12/01/2025	3	2520694	Malmo PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line, pushcam recommen ded
					14:44													
Henderson Creek	13/01/2025	3	81156577	KONINI RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line, CSE
					20:26													
Henderson Creek	15/01/2025	3	2510875	West Coast RD	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					10:05													
Henderson Creek	15/01/2025	3	2416892	Kellett RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	CCTV - no further notes
					7:04													
Henderson Creek	18/01/2025	3	81153738	Cumulus WAY	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					12:43													
Henderson Creek	8/11/2024	3	2521882	Garton DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					19:41													
Henderson Creek	18/01/2025	3	2521882	Garton DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					8:14													
Henderson Creek	20/01/2025	3	2514491	Atkinson RD	n/a	Unknown	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrol led	0.25- 0.5ppm	flushed line
					17:32													
Henderson Creek	23/01/2025	3	2407447	Spargo RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	pigtail, CSE to remove roots
					9:57													
Henderson Creek	23/01/2025	3	81156257	Royal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					7:36													

Henderson Creek	25/01/2025	3	2407447	Spargo RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed line
					12:37													
Henderson Creek	25/01/2025	3	2528154	Royal RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	roots removed
					15:27													
Henderson Creek	27/01/2025	3	2412699	Pallister DR	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	1	Flushed line.
					12:50													
Henderson Creek	28/01/2025	3	2524006	Marinich DR	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					20:07													
Henderson Creek	29/01/2025	3	2512243	Royal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:40													
Henderson Creek	29/01/2025	3	2523983	Landsdale PL	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, further escalation
					13:50													
Henderson Creek	31/01/2025	3	2511138	Garton DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, repair pipe, CCT - further unblocks?
					17:54													
Henderson Creek	31/01/2025	3	2414506	Chorley AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	sealed the holes and gaps on benching and channel.
					11:37													
Henderson Creek	1/02/2025	3	2403723	Holmes DR-S	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to cut roots
					13:30													
Henderson Creek	12/04/2025	3	1350458	Lincoln RD	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:16													
Henderson Creek	14/04/2025	3	1350458	Lincoln RD	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					13:35													
Henderson Creek	16/05/2025	3	2404791	Triangle RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:02													
Henderson Creek	22/06/2025	3	2404791	Triangle RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:27													
Henderson Creek	25/10/2024	3	2414222	Glengarry RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:32													

Henderson Creek	24/03/2025	3	2414222	Glengarry RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:23													
Henderson Creek	5/02/2025	3	2413288	West Coast RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					22:26													
Henderson Creek	6/02/2025	3	2516004	Afton PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:50													
Henderson Creek	7/02/2025	3	2411802	Paewai RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for repair
					10:49													
Henderson Creek	18/07/2024	3	2509309	Albert Pryor AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					19:35													
Henderson Creek	9/02/2025	3	2412370	Royal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, needs flushing or dig up
					8:32													
Henderson Creek	10/02/2025	3	2407830	Captain Scott RD	n/a	Broken pipe	No	Road/footpath	L2	Local	SW network	yes	no	yes	n/a uncontrolled	No info.	flushed line, repair of pipe, escalated for hydro excavation	
					11:16													
Henderson Creek	10/02/2025	3	2407610	View RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:42													
Henderson Creek	7/12/2024	3	81012163	Mulvaney CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:54													
Henderson Creek	27/12/2024	3	2517544	Mulvaney CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:38													
Henderson Creek	12/02/2025	3	2407830	Captain Scott RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:41													
Henderson Creek	12/02/2025	3	81007687	Choice AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, remove roots
					18:10													
Henderson Creek	12/02/2025	3	2408093	Central Park DR	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					21:04													
Henderson Creek	15/02/2025	3	81007734	Jillian DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repair, flushed line
					11:17													
Henderson Creek	8/07/2024	3	2408640	Reynella DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:42													

Henderson Creek	23/03/2025	3	2408640	Reynella DR	n/a	Rags	Yes	Reserve/ park	L3	Local	Estuary	yes	no	no	no	n/a	6	flushed line
					18:18											uncontrolled		
Henderson Creek	18/02/2025	3	2408089	Garelja RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:50											uncontrolled		
Henderson Creek	21/10/2024	3	1520154	Sandwick DR	n/a	Fat	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:17											uncontrolled		
Henderson Creek	19/02/2025	3	2412133	Jillian DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:26											uncontrolled		
Henderson Creek	19/02/2025	3	81155826	Swanson RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					19:52											uncontrolled		
Henderson Creek	20/02/2025	3	81008358	Central Park DR	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					23:40											uncontrolled		
Henderson Creek	20/02/2025	3	2415748	Kotuku ST	n/a	Roots	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:11											uncontrolled		
Henderson Creek	20/02/2025	3	2413048	Tawini RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:02											uncontrolled		
Henderson Creek	22/02/2025	3	2521334	McCormick RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:48											uncontrolled		
Henderson Creek	21/06/2025	3	2404498	Triangle RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:18											uncontrolled		
Henderson Creek	22/06/2025	3	2404498	Triangle RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cse to repair dropper
					15:31											uncontrolled		
Henderson Creek	24/02/2025	3	81006502	Petrel PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:01											uncontrolled		
Henderson Creek	25/02/2025	3	81007179	Luxor PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, partially unblocked - escalated for CCTV
					8:41											uncontrolled		
Henderson Creek	26/02/2025	3	2512428	Alma ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:53											uncontrolled		
Henderson Creek	26/02/2025	3	82694344	Mackenzie ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	no action yet, dye test
					15:55											uncontrolled		
Henderson Creek	27/02/2025	3	2571466	Muriels View LN	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	clean up and disinfect
					18:11											uncontrolled		

Henderson Creek	28/02/2025	3	81157141	Don Buck RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:14													
Henderson Creek	2/03/2025	3	2409165	Rathgar RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root cut
					12:25													
Henderson Creek	2/03/2025	3	2407184	Waerenga PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rods, pigtail
					18:52													
Henderson Creek	4/03/2025	3	2515366	Woodglen RD	n/a	Unknown	No	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	6	flushed line, CCTV
					18:09													
Henderson Creek	6/03/2025	3	2514516	Imperial PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:43													
Henderson Creek	6/03/2025	3	81007256	Basra DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:56													
Henderson Creek	7/03/2025	3	81156767	Sari PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:51													
Henderson Creek	7/03/2025	3	81007750	Onemana WAY	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:39													
Henderson Creek	10/03/2025	3	81157746	Swanson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:01													
Henderson Creek	13/03/2025	3	2411509	Levy RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush, CCTV
					10:50													
Henderson Creek	13/03/2025	3	1461064	Awaroa RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:04													
Henderson Creek	14/03/2025	3	1402667	Woodfern CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					12:59													
Henderson Creek	5/10/2024	3	2412179	Lucienne DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:21													
Henderson Creek	15/03/2025	3	2512452	Triangle RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:55													
Henderson Creek	6/02/2025	3	2412777	Lucienne DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					12:07													
Henderson Creek	16/03/2025	3	2411124	O'Neills RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:41													
Henderson Creek	17/03/2025	3	2407693	Longfellow PDE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:47													

Henderson Creek	17/03/2025	3	2423706	Kaurilands RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:58											n/a	uncontrolled	
Henderson Creek	18/03/2025	3	81010061	Luanda DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE< heavy flush, CCTV
					13:20											n/a	uncontrolled	
Henderson Creek	18/03/2025	3	2508679	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE
					17:19											n/a	uncontrolled	
Henderson Creek	19/03/2025	3	2522874	Humphrey Kemp AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					14:45											n/a	uncontrolled	
Henderson Creek	19/03/2025	3	2411819	Seymour RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:56											n/a	uncontrolled	
Henderson Creek	20/03/2025	3	81156211	San Pablo WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE
					19:16											n/a	uncontrolled	
Henderson Creek	20/03/2025	3	2512298	Atkinson RD	n/a	Broken pipe	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	0.5ppm	repair pipe, CCTV
					20:01											n/a	uncontrolled	
Henderson Creek	21/03/2025	3	2408071	Rathgar RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, Cse
					17:23											n/a	uncontrolled	
Henderson Creek	21/03/2025	3	2415163	Don Buck RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:15											n/a	uncontrolled	
Henderson Creek	22/03/2025	3	2409074	Jarrah PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:51											n/a	uncontrolled	
Henderson Creek	22/03/2025	3	2413361	View RD	n/a	Rags	No	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a	3ppm	Reported DWO
					17:12											n/a	uncontrolled	
Henderson Creek	25/03/2025	3	81157551	Malmo PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:34											n/a	uncontrolled	
Henderson Creek	25/03/2025	3	2403583	Lilburn CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:46											n/a	uncontrolled	
Henderson Creek	27/03/2025	3	2408806	Sturges RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, further work required
					12:21											n/a	uncontrolled	
Henderson Creek	27/03/2025	3	81157785	Elder PL	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	nothing yet
					12:28											n/a	uncontrolled	
Henderson Creek	29/03/2025	3	2509677	Ribblesdale RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleared roots.
					16:31											n/a	uncontrolled	

Henderson Creek	29/03/2025	3	2411349	Triangle RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:28													
Henderson Creek	29/03/2025	3	2408779	Swanson RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:09													
Henderson Creek	29/03/2025	3	2509260	Gwendoline AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:50													
Henderson Creek	1/04/2025	3	81010050	Solar RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:54													
Henderson Creek	18/02/2025	3	2409008	Sherwood AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:42													
Henderson Creek	24/05/2025	3	2409008	Sherwood AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, cleaned up, disso and reinstate lawn.
					11:19													
Henderson Creek	2/04/2025	3	2414746	Sunnyside RD	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	pipe repair needed
					14:14													
Henderson Creek	2/04/2025	3	2413551	Marie CRES	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	pigtail, flushed line
					18:37													
Henderson Creek	3/04/2025	3	2412227	Don Buck RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flush, CCTV
					10:56													
Henderson Creek	10/04/2025	3	2415106	Lincoln RD	n/a	Fat	No	Inside property	L2	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:46													
Henderson Creek	11/04/2025	3	2568120	Glendale RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					17:04													
Henderson Creek	11/04/2025	3	2414935	Sel Peacock DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:28													
Henderson Creek	12/04/2025	3	2509299	Te Kanawa CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:29													
Henderson Creek	12/04/2025	3	2516084	Atkinson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:49													
Henderson Creek	16/04/2025	3	1408483	Kaurilands RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:22													

Henderson Creek	21/04/2025	3	2423441	Lake Panorama DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail to retrieve roots, heavy flush
					19:03													
Henderson Creek	23/04/2025	3	2418336	Metcalf RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and removed roots, rags. Cleanup and disso.
					16:43													
Henderson Creek	24/04/2025	3	1525783	Great North RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed roots, flushed line. Clean up and disso
					10:17													
Henderson Creek	24/04/2025	3	2558162	Millbrook RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Job transferred to Transmission Team
					9:23													
Henderson Creek	24/04/2025	3	2406901	Woodfern CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					13:10													
Henderson Creek	25/04/2025	3	1367687	Wallace RD	n/a	Roots	No	Reserve/park	L3	Local	Lake/basin /pond	yes	yes	no	no	n/a uncontrolled	6	removed roots, further CSE to remove all roots. Overflow to pond, SW MH contained pond using sucker pump.
					9:38													
Henderson Creek	27/04/2025	3	1350996	Ribblesdale RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					10:04													
Henderson Creek	4/07/2024	3	2413654	Sunvue RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					9:02													
Henderson Creek	15/08/2024	3	2413654	Sunvue RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					19:55													
Henderson Creek	7/08/2024	3	82897413	West Coast RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:28													
Henderson Creek	19/09/2024	3	2509813	West Coast RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:54													

Henderson Creek	23/11/2024	3	81006917	Redwood DR	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed lateral
					8:36													
Henderson Creek	21/12/2024	3	81006917	Redwood DR	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:44													
Henderson Creek	25/01/2025	3	81006917	Redwood DR	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					8:49													
Henderson Creek	3/05/2025	3	2524333	Jadewynn DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for further works. Denso tape allied to stop seepage temporarily.
					13:15													
Henderson Creek	3/05/2025	3	2523737	Titoki ST	n/a	Rags	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					13:16													
Henderson Creek	4/05/2025	3	2507341	Oates RD	n/a	Unknown	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					7:41													
Henderson Creek	4/05/2025	3	2450207	Kingdale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:30													
Henderson Creek	5/05/2025	3	2413347	Rosier RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned and disso.
					12:44													
Henderson Creek	6/05/2025	3	2417593	Ranui AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, cleaned up and disso.
					18:27													
Henderson Creek	12/05/2025	3	2512029	Great North RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lines, cleaned up and disso.
					7:33													
Henderson Creek	12/05/2025	3	2516355	Newington RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE root removal.
					10:00													
Henderson Creek	14/08/2024	3	2413443	Fairdene AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck
					16:35													
Henderson Creek	16/09/2024	3	2413443	Fairdene AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:26													

Henderson Creek	15/10/2024	3	2413443	Fairdene AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush the line. Sinkhole identified and New WO raised to fix it.
					19:17													
Henderson Creek	14/05/2025	3	2412370	Royal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					7:38													
Henderson Creek	18/05/2025	3	2408178	Edmonton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					9:45													
Henderson Creek	20/05/2025	3	2407949	Kereru ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTV, cleaned up and disso. Escalated for full fats removal with heavy flush.
					12:26													
Henderson Creek	21/05/2025	3	2408344	Edwards AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					18:27													
Henderson Creek	22/05/2025	3	2422049	Glengarry RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso.
					16:19													
Henderson Creek	28/05/2025	3	2416001	Albizia AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pig tail to remove roots, cleaned up and disso.
					14:59													
Henderson Creek	22/11/2024	3	2414937	Universal DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed fat, rat & nappy
					0:56													
Henderson Creek	10/01/2025	3	2414937	Universal DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, escalated for repair
					10:24													
Henderson Creek	31/05/2025	3	2405220	Triangle RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CSE to clear fats, clean up and disso.
					15:05													
Henderson Creek	31/05/2025	3	2516391	Ulrich DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT, clean up and disso.
					10:48													

Henderson Creek	3/06/2025	3	1480330	Don Buck RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail, CSE to remove roots, flushed, clean up and disso.
					16:42													
Henderson Creek	3/06/2025	3	1467382	Elizabeth DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked and dye tested.
					9:48													
Henderson Creek	6/02/2025	3	2412692	Metcalfe RD	n/a	Unknown	Yes	On property	L3	Local	Lake/basin /pond	yes	no	no	no	n/a uncontrolled	3ppm	flushed line
					23:03													
Henderson Creek	8/11/2024	3	2512769	Te Atatu RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger
					21:00													
Henderson Creek	21/11/2024	3	2512769	Te Atatu RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for CCTV due to repeat OFs
					16:15													
Henderson Creek	6/06/2025	3	2408677	Buscomb AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rootcut
					8:20													
Henderson Creek	7/06/2025	3	2414742	Takapu ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, washed down and disso.
					7:32													
Henderson Creek	26/07/2024	3	82703488	West Harbour DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:39													
Henderson Creek	5/10/2024	3	2415709	West Harbour DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:34													
Henderson Creek	27/08/2024	3	81158426	Woodside RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:41													
Henderson Creek	19/09/2024	3	2510444	Woodside RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:29													
Henderson Creek	13/06/2025	3	2509796	Silverstone PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CSE root removal, cleanup and disso.
					15:35													
Henderson Creek	16/06/2025	3	2413661	Woodglen RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No more blockage.
					9:39													
Henderson Creek	17/06/2025	3	2405862	Glendale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					16:58													

Henderson Creek	17/06/2025	3	2414685	Royal RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, root cut, CCTV, clean up and disso.
					10:40													
Henderson Creek	17/06/2025	3	1355618	Pankhurst PL	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					14:32													
Henderson Creek	29/01/2025	3	2522424	Metcalfe RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:17													
Henderson Creek	21/06/2025	3	2511392	Osmond CT	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	cctv, repaired break
					13:46													
Henderson Creek	18/01/2025	3	2422647	Rangeview RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:54													
Henderson Creek	31/01/2025	3	2422647	Rangeview RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removed, heavy flush line and CCTV
					20:06													
Henderson Creek	24/02/2025	3	81012159	Rangeview RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:44													
Henderson Creek	23/06/2025	3	2420611	West Coast RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line. Wash down.
					15:10													
Henderson Creek	10/10/2024	3	2407789	Rathgar RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:21													
Henderson Creek	5/11/2024	3	2406617	Glendale RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Partial unblock, needs heavy flush
					12:14													
Henderson Creek	19/03/2025	3	2417229	Glen RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					19:49													
Henderson Creek	29/06/2025	3	2408964	Waikaukau RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, washdown and disso. Broken pipe is being repaired.
					11:32													
Henderson Creek	29/06/2025	3	2529066	Lucienne DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					9:33													

Henderson Creek	29/06/2025	3	2418946	Luckens RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd. Escalated to mill the line to remove concrete.
					14:03													
Henderson Creek	31/08/2024	2	1583	16 Matipo Road, Te Atatu Peninsula	255	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:05													
Henderson Creek	31/08/2024	2	1604	10 Celsmere Lane, Te Atatu	260	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					8:50													
Henderson Creek	2/05/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	30	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:10													
Henderson Creek	31/08/2024	3	N/A	Taikata Road, Te Atatu	90	Unknown	Yes	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					10:10													
Henderson Creek	13/11/2024	3	N/A	Taikata Road, Te Atatu	20	Unknown	Yes	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					12:10													
Henderson Creek	6/06/2025	3	N/A	Taikata Road, Te Atatu	60	Unknown	Yes	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					11:10													
Henderson Creek	14/06/2025	3	N/A	Taikata Road, Te Atatu	230	Unknown	Yes	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					12:00													
Henderson Creek	14/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	40	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					12:55													
Hobson Bay	2/07/2024	3	2399132	Mahoe AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:07													
Hobson Bay	8/07/2024	3	2596327	Kenneth Small PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:38													
Hobson Bay	9/07/2024	3	2602537	Great South RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots + flushed line + dye test
					22:00													
Hobson Bay	10/07/2024	3	2508226	Allum ST	n/a	Unknown	No	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	6	Rod line
					17:27													
Hobson Bay	10/07/2024	3	2608643	Papahia ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					10:22													

Hobson Bay	12/07/2024	3	2605773	Glen Atkinson ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:46											n/a	uncontrolled	
Hobson Bay	5/10/2024	3	1552161	Atkin AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					14:55											n/a	uncontrolled	
Hobson Bay	22/12/2024	3	2600923	Atkin AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:13											n/a	uncontrolled	
Hobson Bay	17/07/2024	3	2485396	Gavin ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:03											n/a	uncontrolled	
Hobson Bay	18/07/2024	3	2601040	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line, removed roots
					17:58											n/a	uncontrolled	
Hobson Bay	19/07/2024	3	81003128	St Stephens AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV & dye test to find breaks
					10:14											n/a	uncontrolled	
Hobson Bay	21/07/2024	3	2604039	The Parade	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					12:28											n/a	uncontrolled	
Hobson Bay	22/07/2024	3	2487405	Richard Farrell AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:49											n/a	uncontrolled	
Hobson Bay	22/07/2024	3	81010662	Upland RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					13:11											n/a	uncontrolled	
Hobson Bay	22/07/2024	3	2494721	Remuera RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:41											n/a	uncontrolled	
Hobson Bay	23/07/2024	3	2488968	Ballin ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV
					17:06											n/a	uncontrolled	
Hobson Bay	23/07/2024	3	2603930	Dunholme RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush
					17:35											n/a	uncontrolled	
Hobson Bay	27/07/2024	3	2509942	Victoria AVE	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a	1	Removed roots
					15:39											n/a	uncontrolled	
Hobson Bay	2/08/2024	3	2598736	Khyber Pass RD	n/a	Foreign Object	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Back flush line, flushed line
					18:08											n/a	uncontrolled	
Hobson Bay	12/07/2024	3	2599016	Clonbern RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:54											n/a	uncontrolled	
Hobson Bay	24/07/2024	3	2599016	Clonbern RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Job ongoing
					17:06											n/a	uncontrolled	
Hobson Bay	9/08/2024	3	2599016	Clonbern RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Repair broken service line
					16:25											n/a	uncontrolled	

Hobson Bay	5/08/2024	3	2482739	Pohutukawa PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					16:23														
Hobson Bay	8/08/2024	3	81003908	Ascot AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, sucker truck
					13:22														
Hobson Bay	12/08/2024	3	2594966	Savannah ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Previous CCTV, flushed line, repaired seal
					13:26														
Hobson Bay	12/08/2024	3	2490116	Bay RD	n/a	Roots	No	On property	L2	Local	SW network	no	no	yes	no	n/a	uncontrolled	0	Flushed line, pulled roots
					8:18														
Hobson Bay	13/08/2024	3	2485995	Ronaki RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flush, CCTV, excavate, repair pipe
					11:56														
Hobson Bay	13/08/2024	3	81159341	Shore RD	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a	uncontrolled	No info.	Repair break
					14:43														
Hobson Bay	18/11/2024	3	2494812	Railway ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CSE to remove obstruction
					11:17														
Hobson Bay	14/08/2024	3	2602620	Temple ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, removed some roots
					17:39														
Hobson Bay	14/08/2024	3	2610799	Rautara ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, dye test
					8:10														
Hobson Bay	15/08/2024	3	2484294	Long DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, excavation, CCTV, repair
					12:56														
Hobson Bay	20/08/2024	3	2497825	Wheturangi RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line several times
					17:55														
Hobson Bay	22/08/2024	3	81001793	Coates AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					12:07														
Hobson Bay	23/08/2024	3	2596525	Marama AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					14:41														

Hobson Bay	27/08/2024	3	2600363	Benson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					18:28											n/a		
Hobson Bay	28/08/2024	3	2491530	Selwyn AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, root cut
					11:04											n/a		
Hobson Bay	29/08/2024	3	81156477	Rangitoto AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					17:56											n/a		
Hobson Bay	30/08/2024	3	2479890	St Johns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					17:08											n/a		
Hobson Bay	2/09/2024	3	2493551	Remuera RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					9:05											n/a		
Hobson Bay	3/09/2024	3	2493655	Rukutai ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:58											n/a		
Hobson Bay	4/09/2024	3	2485865	Remuera RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:02											n/a		
Hobson Bay	5/09/2024	3	2494373	Ellerslie Park RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	dig up & repair, flush and cctv
					15:08											n/a		
Hobson Bay	5/09/2024	3	2613679	Arney CRES	n/a	Roots	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	rootcut, flushed line
					9:42											n/a		
Hobson Bay	5/09/2024	3	2455468	Spencer ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					10:16											n/a		
Hobson Bay	1/01/2025	3	2491477	Market RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:41											n/a		
Hobson Bay	10/02/2025	3	2491477	Market RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:40											n/a		
Hobson Bay	16/02/2025	3	2491477	Market RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, further work required
					19:44											n/a		
Hobson Bay	12/09/2024	3	2600394	MacMurra y RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:18											n/a		
Hobson Bay	16/09/2024	3	2591203	Speight RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:30											n/a		
Hobson Bay	22/06/2025	3	2593315	Amy ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv
					10:45											n/a		

Hobson Bay	28/06/2025	3	2586790	Amy ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed with warthog. Clean up and disso.
					13:53													
Hobson Bay	19/09/2024	3	2403105	Broadway	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:53													
Hobson Bay	22/04/2025	3	2601827	Tautari ST	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line and CCTV.
					14:34													
Hobson Bay	23/09/2024	3	2493140	Remuera RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:51													
Hobson Bay	26/09/2024	3	2480510	Bracken AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line to unblock
					11:29													
Hobson Bay	4/10/2024	3	2492336	Amy ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, further investigation requested
					14:55													
Hobson Bay	27/09/2024	3	2601254	Westbourne RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rootcut
					19:39													
Hobson Bay	28/09/2024	3	2588965	Grand DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:23													
Hobson Bay	30/09/2024	3	2404547	Tamaki DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:34													
Hobson Bay	1/10/2024	3	2490262	Castle DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:31													
Hobson Bay	5/10/2024	3	2593315	Amy ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, repair breaks
					10:14													
Hobson Bay	1/10/2024	3	2510391	Broadway	n/a	Foreign Object	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed concrete from line
					10:02													
Hobson Bay	4/10/2024	3	2403277	Dromorne RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:21													
Hobson Bay	4/10/2024	3	2596298	Edmund ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, unblocked & removed rubbish & rags
					11:41													
Hobson Bay	10/10/2024	3	2494997	Rukutai ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:12													

Hobson Bay	11/10/2024	3	2499057	Tipene PL	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:05											uncontrolled		
Hobson Bay	12/10/2024	3	2487719	Rangiatea RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					9:17											uncontrolled		
Hobson Bay	13/10/2024	3	2495632	Tamaki DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:54											uncontrolled		
Hobson Bay	13/10/2024	3	2596335	Wimbledo n WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					15:47											uncontrolled		
Hobson Bay	18/10/2024	3	2602402	Kent ST	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	removed fats from MH
					12:55											uncontrolled		
Hobson Bay	20/10/2024	3	2399401	Victoria AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:50											uncontrolled		
Hobson Bay	23/10/2024	3	2479183	Koraha ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, repair displaced pipe
					13:14											uncontrolled		
Hobson Bay	24/10/2024	3	2610536	Rutherford TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:06											uncontrolled		
Hobson Bay	30/10/2024	3	2601816	Market RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:07											uncontrolled		
Hobson Bay	31/10/2024	3	2608803	Harvey PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					11:34											uncontrolled		
Hobson Bay	31/10/2024	3	2600938	Codrington CRES	n/a	3rd party damage	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:37											uncontrolled		
Hobson Bay	31/10/2024	3	2406073	Cliff RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	0.5	Flushed line.
					17:06											uncontrolled		
Hobson Bay	1/11/2024	3	2511327	Pukeora AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	self cleared
					12:36											uncontrolled		
Hobson Bay	1/11/2024	3	2594046	St Heliers Bay RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots, planned dig up and repair
					9:54											uncontrolled		
Hobson Bay	6/11/2024	3	2596087	Cornwall Park AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:48											uncontrolled		
Hobson Bay	6/11/2024	3	2496710	Comins CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repair dislocated pipe
					8:37											uncontrolled		
Hobson Bay	22/07/2024	3	2611323	Vale RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					10:29											uncontrolled		

Hobson Bay	25/07/2024	3	2611323	Vale RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					7:34											n/a		
Hobson Bay	4/08/2024	3	2611323	Vale RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line from GT
					18:08											n/a		
Hobson Bay	6/08/2024	3	2611323	Vale RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, sucker truck, escalated for repair
					7:30											n/a		
Hobson Bay	10/11/2024	3	2600942	Kurahaupo ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV to confirm displacement
					13:45											n/a		
Hobson Bay	10/11/2024	3	2404552	Entrican AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Blockage cleared.
					18:19											n/a		
Hobson Bay	12/11/2024	3	2599824	Waimarie ST	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:20											n/a		
Hobson Bay	13/11/2024	3	2495718	Middleton RD	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	repair break
					12:14											n/a		
Hobson Bay	14/11/2024	3	81001085	Bell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, blockage not found, cctv of mains required, works still underway
					10:49											n/a		
Hobson Bay	15/11/2024	3	2400589	Holgate RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:23											n/a		
Hobson Bay	16/11/2024	3	2492163	Arron ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:22											n/a		
Hobson Bay	17/11/2024	3	81014783	Carlton Gore RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv
					8:44											n/a		
Hobson Bay	18/11/2024	3	81002566	Kepa RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Blockage cleared.
					18:19											n/a		
Hobson Bay	19/11/2024	3	2607193	Comins CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:10											n/a		
Hobson Bay	19/11/2024	3	2592453	Mainston RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv
					10:34											n/a		

Hobson Bay	19/11/2024	3	2478230	Market RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:33											n/a	uncontroll ed	
Hobson Bay	21/11/2024	3	2491221	McArthur AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, dig up & repair damage by roots
					9:05											n/a	uncontroll ed	
Hobson Bay	22/11/2024	3	2607225	Tahapa CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:17											n/a	uncontroll ed	
Hobson Bay	24/11/2024	3	2483126	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cut roots
					10:15											n/a	uncontroll ed	
Hobson Bay	26/11/2024	3	2597378	Mountain RD	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	escalated
					21:29											n/a	uncontroll ed	
Hobson Bay	4/12/2024	3	2499748	Abbotts WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:52											n/a	uncontroll ed	
Hobson Bay	4/12/2024	3	2493413	Martin AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:52											n/a	uncontroll ed	
Hobson Bay	7/12/2024	3	2488049	Peek ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repair faulty joint
					9:13											n/a	uncontroll ed	
Hobson Bay	9/12/2024	3	2605864	Godden CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:48											n/a	uncontroll ed	
Hobson Bay	9/12/2024	3	2490113	Challenger ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					19:34											n/a	uncontroll ed	
Hobson Bay	11/12/2024	3	81012096	Tarawera TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					10:10											n/a	uncontroll ed	
Hobson Bay	3/12/2024	3	2490905	Meadowbank RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv requested
					18:42											n/a	uncontroll ed	
Hobson Bay	13/12/2024	3	2602325	Mamie ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	Oppm	flushed line
					8:44											n/a	uncontroll ed	
Hobson Bay	6/12/2024	3	2490905	Meadowbank RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:41											n/a	uncontroll ed	
Hobson Bay	15/12/2024	3	2594315	Ballarat ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE, repaired benching and channel
					15:08											n/a	uncontroll ed	
Hobson Bay	18/02/2025	3	2488547	Corinth ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:01											n/a	uncontroll ed	

Hobson Bay	20/02/2025	3	81222287	Corinth ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:54											n/a	uncontrolled	
Hobson Bay	23/02/2025	3	81222287	Corinth ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	clean up and disinfect
					17:35											n/a	uncontrolled	
Hobson Bay	17/12/2024	3	2485932	Clonbern RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					19:55											n/a	uncontrolled	
Hobson Bay	18/12/2024	3	2483018	Lillington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:45											n/a	uncontrolled	
Hobson Bay	19/12/2024	3	2399406	Victoria AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	root removal
					17:38											n/a	uncontrolled	
Hobson Bay	19/12/2024	3	2599018	Dromorne RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					20:57											n/a	uncontrolled	
Hobson Bay	21/12/2024	3	2586790	Amy ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:30											n/a	uncontrolled	
Hobson Bay	20/05/2025	3	2490146	Glen Atkinson ST	n/a	Unknown	Yes	Retail/commercial/public	L3	Local	Stream	yes	yes	no	no	n/a	6	Works still underway.
					9:23											n/a	uncontrolled	
Hobson Bay	25/06/2025	3	2490146	Glen Atkinson ST	n/a	Unknown	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	3	Flushed line.
					13:45											n/a	uncontrolled	
Hobson Bay	23/12/2024	3	2592280	Glover RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:05											n/a	uncontrolled	
Hobson Bay	13/05/2025	3	2497749	Tahapa CRES	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked.
					14:16											n/a	uncontrolled	
Hobson Bay	24/10/2024	3	2592654	Remuera RD	n/a	Silts	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cleared debris build up
					9:22											n/a	uncontrolled	
Hobson Bay	28/10/2024	3	2496166	Remuera RD	n/a	Silts	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cctv to determine cause
					12:52											n/a	uncontrolled	
Hobson Bay	19/03/2025	3	2492832	Great South RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:45											n/a	uncontrolled	
Hobson Bay	21/03/2025	3	2492832	Great South RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:58											n/a	uncontrolled	
Hobson Bay	12/09/2024	3	2606509	The Glen	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					18:08											n/a	uncontrolled	
Hobson Bay	27/11/2024	3	2606509	The Glen	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Escalated for further investigation
					15:28											n/a	uncontrolled	

Hobson Bay	1/05/2025	3	2600396	The Glen	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	disso. WSL excavation work.
					12:58													
Hobson Bay	6/01/2025	3	2490146	Cheverton PL	n/a	Foreign Object	No	Reserve/park	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	1ppm	flushed line
					9:07													
Hobson Bay	7/01/2025	3	2589807	Rangiata RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV recommended
					13:52													
Hobson Bay	13/01/2025	3	81002255	Victoria AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:01													
Hobson Bay	13/01/2025	3	2591703	Greenbank DR	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:34													
Hobson Bay	17/01/2025	3	2487320	Rarangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root cut
					15:04													
Hobson Bay	20/01/2025	3	2597583	Sayegh ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:36													
Hobson Bay	21/01/2025	3	2399400	Chatfield PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					9:01													
Hobson Bay	22/01/2025	3	2483492	Onslow AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:38													
Hobson Bay	17/07/2024	3	81011687	Rutherford TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					8:15													
Hobson Bay	18/07/2024	3	81011687	Rutherford TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:22													
Hobson Bay	31/10/2024	3	2602460	Rutherford TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, rootcut
					18:21													
Hobson Bay	16/11/2024	3	81011687	Rutherford TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:40													
Hobson Bay	30/01/2025	3	2494162	Margot ST	n/a	3rd party damage	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	contractors to repair line
					6:58													
Hobson Bay	4/02/2025	3	2604647	Gowing DR	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:48													
Hobson Bay	5/02/2025	3	2604602	Te Kowhai PL	n/a	Roots	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0ppm	repair needed
					12:07													
Hobson Bay	9/10/2024	3	81013772	Thatcher ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:44													

Hobson Bay	4/01/2025	3	2606136	Thatcher ST	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.25ppm	flushed line, rods
					11:04													
Hobson Bay	2/02/2025	3	81013772	Thatcher ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:14													
Hobson Bay	6/02/2025	3	2480418	Woodside CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:50													
Hobson Bay	7/02/2025	3	81002255	Victoria AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					11:22													
Hobson Bay	7/02/2025	3	2487444	Abbotts WAY	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CTV, flushed line
					15:30													
Hobson Bay	9/02/2025	3	81015116	Dempsey ST	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	1ppm	flushed line
					16:05													
Hobson Bay	10/02/2025	3	2600497	Melanesia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					16:00													
Hobson Bay	10/02/2025	3	2488981	Hopkins CRES	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:46													
Hobson Bay	14/05/2025	3	2499055	Rutherford TCE	n/a	Broken pipe	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.5	Fixing still underway.
					21:25													
Hobson Bay	1/06/2025	3	2499055	Rutherford TCE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to partially unblock, Escaltd for further works.
					9:16													
Hobson Bay	13/02/2025	3	2499869	Arthur ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:30													
Hobson Bay	13/02/2025	3	2587943	Lawry ST	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:05													
Hobson Bay	13/02/2025	3	2601758	Temple ST	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	1ppm	pipe repair?
					7:37													
Hobson Bay	10/06/2025	3	2610256	Rutherford TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots flushed, cleaned up and disso.
					8:54													
Hobson Bay	18/02/2025	3	2487340	Kohimarama RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:19													
Hobson Bay	18/02/2025	3	2594884	Lucerne RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:54													

Hobson Bay	7/02/2025	3	2495379	Eastbourne RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:57														
Hobson Bay	11/04/2025	3	2495379	Eastbourne RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					15:57														
Hobson Bay	29/05/2025	3	2495379	Eastbourne RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed, wash down and disso.
					9:44														
Hobson Bay	25/09/2024	3	2600728	Kelvin RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:36														
Hobson Bay	26/09/2024	3	2488497	Kelvin RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line, cctv
					11:39														
Hobson Bay	27/09/2024	3	2488497	Kelvin RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line, cctv requested
					11:52														
Hobson Bay	18/04/2025	3	2614367	Rutherford TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					21:05														
Hobson Bay	23/02/2025	3	2489660	Corinth ST	n/a	Rags	No	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a	uncontrolled	6	flushed line
					11:41														
Hobson Bay	25/02/2025	3	2606509	Seaview RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Vacuumed line stop overflow. Repair planned to fix the broken line.
					17:31														
Hobson Bay	28/02/2025	3	2495660	Bracken AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					11:20														
Hobson Bay	16/05/2025	3	2404682	Rangitoto AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed lateral line, cleaned up and disso.
					12:50														
Hobson Bay	1/03/2025	3	2484585	Kimberley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					14:51														
Hobson Bay	1/03/2025	3	2589507	Ohinerau ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					11:56														

Hobson Bay	20/05/2025	3	2489696	Rangitoto AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and cleared some roots to partially unblock. Further works needed to restore full service.
					17:16													
Hobson Bay	3/03/2025	3	2493646	Selwyn AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushing required, repair needed
					11:15													
Hobson Bay	3/03/2025	3	81000199	Portland RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:13													
Hobson Bay	4/03/2025	3	2406026	Pukeora AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line, dig up and repair requested
					12:09													
Hobson Bay	5/03/2025	3	2590905	Abbotts WAY	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:37													
Hobson Bay	7/03/2025	3	2490420	Patteson AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:07													
Hobson Bay	11/10/2024	3	2484295	Melanesia RD	n/a	Silts	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush, CCTV
					15:04													
Hobson Bay	18/06/2025	3	2591759	Melanesia RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed lateral, clean up and disso.
					10:52													
Hobson Bay	19/06/2025	3	2484295	Melanesia RD	n/a	Roots	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed lateral, clean up and disso. CCTV found displacement and escalated.
					22:41													
Hobson Bay	9/03/2025	3	2495377	Te Kowhai PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:12													
Hobson Bay	11/03/2025	3	2598064	Godfrey PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:18													

Hobson Bay	12/03/2025	3	2607031	Arney RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunger
					11:12											n/a	uncontrolled	
Hobson Bay	21/01/2025	3	2593316	Marua RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:27											n/a	uncontrolled	
Hobson Bay	4/02/2025	3	2599002	Marua RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:25											n/a	uncontrolled	
Hobson Bay	13/03/2025	3	2499748	Abbotts WAY	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv, repair
					17:49											n/a	uncontrolled	
Hobson Bay	3/09/2024	3	2609147	Shore RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:15											n/a	uncontrolled	
Hobson Bay	14/03/2025	3	2563251	Manukau RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:16											n/a	uncontrolled	
Hobson Bay	20/03/2025	3	81001640	Arney CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, pigtail, CCTV recommended
					7:15											n/a	uncontrolled	
Hobson Bay	20/03/2025	3	2490455	Dilworth AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:58											n/a	uncontrolled	
Hobson Bay	21/03/2025	3	2564258	Awarua CRES	n/a	Roots	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	0.5ppm	flushed line
					19:38											n/a	uncontrolled	
Hobson Bay	25/03/2025	3	2593043	Platina ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:12											n/a	uncontrolled	
Hobson Bay	27/03/2025	3	2603795	Kohimarama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Blockage cleared
					11:05											n/a	uncontrolled	
Hobson Bay	30/03/2025	3	2489584	Selwyn AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, dig up required
					13:52											n/a	uncontrolled	
Hobson Bay	31/03/2025	3	2483139	Owens RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:33											n/a	uncontrolled	
Hobson Bay	6/04/2025	3	2489694	Lucerne RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:46											n/a	uncontrolled	
Hobson Bay	7/04/2025	3	2496569	Ngaiwi ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					20:58											n/a	uncontrolled	
Hobson Bay	13/04/2025	3	2497890	MacMurray RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:28											n/a	uncontrolled	

Hobson Bay	14/04/2025	3	2485455	Hanene ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, bypass, further work required
					12:17													
Hobson Bay	15/04/2025	3	2504791	Maungawhau RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:19													
Hobson Bay	17/04/2025	3	2399467	Mahoe AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, further escalation
					15:57													
Hobson Bay	25/10/2024	3	2595128	Yattendon RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:42													
Hobson Bay	13/06/2025	3	2595128	Yattendon RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and disso.
					11:25													
Hobson Bay	20/04/2025	3	2508055	Morrin ST	n/a	Fat	No	Inside property	L3	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					17:54													
Hobson Bay	21/04/2025	3	2511219	Remuera RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Further CSE req.
					10:43													
Hobson Bay	21/04/2025	3	2511327	Pukeora AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No information.
					15:28													
Hobson Bay	21/04/2025	3	2511327	Pukeora AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					15:32													
Hobson Bay	22/04/2025	3	2599351	Piccadilly PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso
					8:59													
Hobson Bay	22/04/2025	3	2597512	Armadale RD	n/a	Broken pipe	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted, CCTV, clean up and disso, Further work to fix the broken lateral net door
					9:32													
Hobson Bay	23/03/2025	3	2603459	Waimarie ST	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:32													
Hobson Bay	23/04/2025	3	2495108	Ayr ST	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	No Info.
					18:39													

Hobson Bay	20/05/2025	3	2603459	Waimarie ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					10:48													
Hobson Bay	25/04/2025	3	2399870	Lingarth ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					11:10													
Hobson Bay	30/01/2025	3	2494633	Comins CRES	n/a	Broken pipe	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	further repairs required
					18:56													
Hobson Bay	22/03/2025	3	2494633	Comins CRES	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	1ppm	escalated for CCTV
					11:11													
Hobson Bay	29/04/2025	3	2489540	Kohimarama RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:00													
Hobson Bay	18/07/2024	3	2496184	Michaels AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:45													
Hobson Bay	6/05/2025	3	2590860	Wilkinson RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					13:01													
Hobson Bay	19/09/2024	3	2490516	Speight RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:06													
Hobson Bay	25/11/2024	3	2487149	Speight RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:48													
Hobson Bay	22/06/2025	3	2598888	Glover RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:55													
Hobson Bay	22/06/2025	3	2488743	Glover RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	escalated for cctv
					19:03													
Hobson Bay	25/08/2024	3	2600535	Mount St John AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line from IP
					10:18													
Hobson Bay	28/08/2024	3	2600535	Mount St John AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cctv, removed roots
					12:30													
Hobson Bay	29/04/2025	3	2602399	Mount St John AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:25													
Hobson Bay	24/10/2024	3	2610536	Rutherford TCE	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, removed rags & rat
					8:49													
Hobson Bay	12/05/2025	3	2486518	Rangiatea RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					14:24													

Hobson Bay	12/05/2025	3	2401413	Portland RD	n/a	Roots	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV'd. Removal of roots. May need further works
					10:56													
Hobson Bay	15/05/2025	3	2594782	Grand DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT. Clean up and disso.
					18:40													
Hobson Bay	15/05/2025	3	2488479	Tuhimata ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots.
					8:25													
Hobson Bay	15/05/2025	3	2486006	Grampian RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed ;ine. Escalated to CCTV.
					15:24													
Hobson Bay	16/05/2025	3	2492726	Hampton DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					8:56													
Hobson Bay	17/05/2025	3	2480871	Cheeseman PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:55													
Hobson Bay	17/05/2025	3	2499966	Tohunga CRES	n/a	Unknown	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:07													
Hobson Bay	17/05/2025	3	2604408	Crescent RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					10:14													
Hobson Bay	17/05/2025	3	2480834	Charles Fox PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up & disso. Escalated to CCTV.
					7:52													
Hobson Bay	24/05/2025	3	81205818	Rutherford TCE	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked.
					20:17													
Hobson Bay	19/05/2025	3	2595164	Rangitoto AVE	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	6.5 (at point of OF)	Flushed, cleaned up and disso. Ammonia in the SW MH
					17:49													
Hobson Bay	21/05/2025	3	2481625	Shipherds AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from D/S, clean up and disso.
					9:37													
Hobson Bay	21/05/2025	3	2594615	Lucia GLD	n/a	Fat	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed lines. Cleared blockage
					12:55													

Hobson Bay	21/05/2025	3	2599026	MacPherson ST	n/a	Unknown	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed and unblocked.
					11:30													
Hobson Bay	22/05/2025	3	2592606	Bracken AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Works underway.
					15:55													
Hobson Bay	22/05/2025	3	2603791	Lammermoor DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed tree roots, clean up.
					14:33													
Hobson Bay	24/05/2025	3	2603795	Kohimarama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					6:25													
Hobson Bay	27/02/2025	3	2610572	St Stephens AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:54													
Hobson Bay	25/05/2025	3	2587869	Balmoral RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked using warthog and disso with lime.
					17:49													
Hobson Bay	24/01/2025	3	2488870	Brilliant ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					8:20													
Hobson Bay	28/05/2025	3	2603572	Kohimarama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					16:31													
Hobson Bay	7/10/2024	3	2492448	Rukutai ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:50													
Hobson Bay	11/10/2024	3	2490755	Rukutai ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:29													
Hobson Bay	8/11/2024	3	2492448	Rukutai ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:35													
Hobson Bay	12/11/2024	3	2490755	Rukutai ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv recommended
					8:08													
Hobson Bay	7/12/2024	3	2493079	Meadowbank RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:34													
Hobson Bay	8/12/2024	3	2490905	Meadowbank RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv
					11:23													
Hobson Bay	23/02/2025	3	2489647	Hawthorne PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:46													
Hobson Bay	21/07/2024	3	2509144	Hiriri AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:02													

Hobson Bay	23/11/2024	3	2507918	Hiriri AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:42											n/a		
Hobson Bay	9/03/2025	3	2509144	Hiriri AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, incomplete
					15:44											n/a		
Hobson Bay	8/06/2025	3	2599555	Godden CRES	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CSE to remove roots, cleaned up and disso.
					18:51											n/a		
Hobson Bay	10/06/2025	3	1531749	Norana AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed.
					13:26											n/a		
Hobson Bay	10/06/2025	3	2613020	Portland RD	n/a	Broken pipe	No	Unknown	L2	Local	Stream	no	yes	no	no	n/a	1	Flushed, cleaned up and disso u/s MH. Escalated to fix the broken pipe.
					14:28											n/a		
Hobson Bay	16/06/2025	3	2399906	Mahoe AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked. Cleaned up and disso.
					8:36											n/a		
Hobson Bay	18/06/2025	3	2926649	New Bond ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Repair completed. CCTVd.
					10:32											n/a		
Hobson Bay	20/06/2025	3	2489036	Kohimarama RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, clean up and disso.
					13:35											n/a		
Hobson Bay	21/06/2025	3	2591204	Hawera RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:35											n/a		
Hobson Bay	24/06/2025	3	2487548	Kohimarama RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Fixed connection.
					10:59											n/a		
Hobson Bay	25/06/2025	3	2497118	Patteson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed main line.
					9:04											n/a		
Hobson Bay	29/06/2025	3	2496585	Crescent RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line., vacuum, washdown and disso.
					9:55											n/a		
Hobson Bay	30/06/2025	3	2590418	Norman Lesser DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:31											n/a		

Hobson Bay	2/10/2024	2	733	Overflow Hells Gate Sewer Overflow Level	142	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:14													
Hobson Bay	5/10/2024	2	733	Overflow Hells Gate Sewer Overflow Level	18	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:45													
Hobson Bay	26/10/2024	2	733	Overflow Hells Gate Sewer Overflow Level	191	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:21													
Hobson Bay	10/04/2025	2	733	Overflow Hells Gate Sewer Overflow Level	5571	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:26													
Hobson Bay	8/05/2025	2	733	Overflow Hells Gate Sewer Overflow Level	111	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:59													
Hobson Bay	26/05/2025	2	733	Overflow Hells Gate Sewer Overflow Level	22	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:20													
Hobson Bay	29/05/2025	2	733	Overflow Hells Gate Sewer Overflow Level	38	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:55													
Hobson Bay	4/06/2025	2	733	Overflow Hells Gate Sewer Overflow Level	137	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:26													
Hobson Bay	8/06/2025	2	733	Overflow Hells Gate Sewer Overflow Level	34	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:00													
Hobson Bay	10/06/2025	2	733	Overflow Hells Gate Sewer Overflow Level	52	Unknown	Yes	Newmarket Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:30													
Hobson Bay	1/07/2024	2	505	9 Scherff Road, Remuera	45	Unknown	Yes	Waitaramoa Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:40													

Hobson Bay	1/07/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	120	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:40													
Hobson Bay	15/07/2024	2	505	9 Scherff Road, Remuera	70	Unknown	Yes	Waitaramoa Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:45													
Hobson Bay	15/07/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	150	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:15													
Hobson Bay	15/07/2024	2	1598	21 Ayr Street, Parnell	15	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:35													
Hobson Bay	15/07/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	100	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:25													
Hobson Bay	17/07/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	140	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:20													
Hobson Bay	19/07/2024	2	452	18 Ngapipi Road, Orakei	100	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:30													
Hobson Bay	19/07/2024	2	503	68 Portland Road, Remuera	20	Unknown	Yes	Waitaramoa Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:05													
Hobson Bay	19/07/2024	2	511	158 Bassett Road, Remuera	130	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:55													
Hobson Bay	19/07/2024	2	1598	21 Ayr Street, Parnell	20	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:55													
Hobson Bay	19/07/2024	2	505	9 Scherff Road, Remuera	725	Unknown	Yes	Waitaramoa Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:50													
Hobson Bay	19/07/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	990	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:20													
Hobson Bay	21/07/2024	2	452	18 Ngapipi Road, Orakei	45	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					7:35													

Hobson Bay	21/07/2024	2	193	35 Yattendon Road, Sandringha m	60	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:45													
Hobson Bay	21/07/2024	2	1598	21 Ayr Street, Parnell	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:55													
Hobson Bay	21/07/2024	2	503	68 Portland Road, Remuera	25	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:40													
Hobson Bay	23/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:55													
Hobson Bay	23/07/2024	2	505	9 Scherff Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:05													
Hobson Bay	29/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	310	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:00													
Hobson Bay	31/07/2024	2	505	9 Scherff Road, Remuera	160	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:15													
Hobson Bay	31/07/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:15													
Hobson Bay	31/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	210	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Hobson Bay	12/08/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:10													
Hobson Bay	16/08/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	530	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:25													
Hobson Bay	17/08/2024	2	511	158 Bassett Road, Remuera	70	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:50													

Hobson Bay	17/08/2024	2	505	9 Scherff Road, Remuera	275	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				14:45														
Hobson Bay	27/08/2024	2	505	9 Scherff Road, Remuera	40	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				8:20														
Hobson Bay	27/08/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	140	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				7:10														
Hobson Bay	29/08/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				21:45														
Hobson Bay	29/08/2024	2	505	9 Scherff Road, Remuera	60	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:05														
Hobson Bay	29/08/2024	2	503	68 Portland Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				18:55														
Hobson Bay	29/08/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	50	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				18:50														
Hobson Bay	31/08/2024	2	452	18 Ngapipi Road, Orakei	95	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				9:05														
Hobson Bay	31/08/2024	2	451	27 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				9:15														
Hobson Bay	31/08/2024	2	1580	4 St. Marks Road, Remuera	15	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				9:20														
Hobson Bay	31/08/2024	2	160	45 Ascot Avenue, Remuera	35	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
				9:15														
Hobson Bay	31/08/2024	2	281	49 Ngapuhi Road, Remuera	220	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				9:15														
Hobson Bay	31/08/2024	2	285	77 Meadowbank Road, Meadowbank	25	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				9:10														

Hobson Bay	31/08/2024	2	421	29 Ayr Street A/Middlet on Road, Newmarket.	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.	
Hobson Bay	31/08/2024	2	508	32 Hapua Street, Remuera	9:10	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
Hobson Bay	31/08/2024	2	503	68 Portland Road, Remuera	9:05	160	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	31/08/2024	2	511	158 Bassett Road, Remuera	9:00	280	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	31/08/2024	2	505	9 Scherff Road, Remuera	8:55	495	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	31/08/2024	2	1598	21 Ayr Street, Parnell	8:50	95	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	31/08/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	8:20	80	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	3/09/2024	2	505	9 Scherff Road, Remuera	14:50	25	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	3/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	14:30	70	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	5/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20:15	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	8/09/2024	2	505	9 Scherff Road, Remuera	2:15	25	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	8/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	1:35	80	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	14/09/2024	2	505	9 Scherff Road, Remuera	20:10	80	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.

Hobson Bay	14/09/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	280	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	16/09/2024	2	452	18 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
Hobson Bay	16/09/2024	2	505	9 Scherff Road, Remuera	120	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	16/09/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	16/09/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	190	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	20/09/2024	2	452	18 Ngapipi Road, Orakei	60	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
Hobson Bay	20/09/2024	2	503	68 Portland Road, Remuera	70	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	20/09/2024	2	505	9 Scherff Road, Remuera	405	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	20/09/2024	2	511	158 Bassett Road, Remuera	220	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	20/09/2024	2	1598	21 Ayr Street, Parnell	85	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	20/09/2024	2	421	29 Ayr Street A/Middlet on Road, Newmarke t.	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	23/09/2024	2	503	68 Portland Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	23/09/2024	2	505	9 Scherff Road, Remuera	45	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.

Hobson Bay	23/09/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:00													
Hobson Bay	24/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	1340	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:30													
Hobson Bay	25/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:30													
Hobson Bay	26/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	730	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:05													
Hobson Bay	2/10/2024	2	452	18 Ngapipi Road, Orakei	205	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:15													
Hobson Bay	2/10/2024	2	451	27 Ngapipi Road, Orakei	75	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:25													
Hobson Bay	2/10/2024	2	281	49 Ngapuhi Road, Remuera	285	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:30													
Hobson Bay	2/10/2024	2	508	32 Hapua Street, Remuera	110	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					21:20													
Hobson Bay	2/10/2024	2	160	45 Ascot Avenue, Remuera	85	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					21:20													
Hobson Bay	2/10/2024	2	1630	35 James Cook Crescent, Remuera.	20	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:15													
Hobson Bay	2/10/2024	2	503	68 Portland Road, Remuera	200	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:10													
Hobson Bay	2/10/2024	2	421	29 Ayr Street A/Middleton Road, Newmarket.	100	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:10													

Hobson Bay	2/10/2024	2	1598	21 Ayr Street, Parnell	150	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:05													
Hobson Bay	2/10/2024	2	505	9 Scherff Road, Remuera	645	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	2/10/2024	2	511	158 Bassett Road, Remuera	360	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	2/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	660	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:00													
Hobson Bay	5/10/2024	2	452	18 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:50													
Hobson Bay	5/10/2024	2	281	49 Ngapuhi Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:05													
Hobson Bay	5/10/2024	2	505	9 Scherff Road, Remuera	40	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:50													
Hobson Bay	5/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:40													
Hobson Bay	6/10/2024	2	505	9 Scherff Road, Remuera	35	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Hobson Bay	6/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	90	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:55													
Hobson Bay	8/10/2024	2	1630	35 James Cook Crescent, Remuera.	180	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:40													
Hobson Bay	9/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:20													
Hobson Bay	26/10/2024	2	452	18 Ngapipi Road, Orakei	20	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:20													

Hobson Bay	26/10/2024	2	503	68 Portland Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:25													
Hobson Bay	26/10/2024	2	505	9 Scherff Road, Remuera	95	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:20													
Hobson Bay	26/10/2024	2	511	158 Bassett Road, Remuera	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:15													
Hobson Bay	26/10/2024	2	1598	21 Ayr Street, Parnell	35	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:10													
Hobson Bay	26/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	90	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:05													
Hobson Bay	28/10/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:20													
Hobson Bay	1/11/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:40													
Hobson Bay	15/11/2024	2	505	9 Scherff Road, Remuera	385	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:35													
Hobson Bay	15/11/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	400	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:00													
Hobson Bay	21/11/2024	2	505	9 Scherff Road, Remuera	50	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:05													
Hobson Bay	21/11/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:55													
Hobson Bay	26/11/2024	2	193	35 Yattendon Road, Sandringham	70	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:30													
Hobson Bay	30/11/2024	2	505	9 Scherff Road, Remuera	60	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:20													

Hobson Bay	30/11/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:20													
Hobson Bay	30/11/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:15													
Hobson Bay	30/11/2024	2	1598	21 Ayr Street, Parnell	25	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:05													
Hobson Bay	9/12/2024	2	452	18 Ngapipi Road, Orakei	35	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:45													
Hobson Bay	9/12/2024	2	281	49 Ngapuhi Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:45													
Hobson Bay	9/12/2024	2	503	68 Portland Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:25													
Hobson Bay	9/12/2024	2	505	9 Scherff Road, Remuera	90	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:25													
Hobson Bay	9/12/2024	2	160	45 Ascot Avenue, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					19:25													
Hobson Bay	9/12/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	85	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Hobson Bay	9/12/2024	2	511	158 Bassett Road, Remuera	60	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Hobson Bay	9/12/2024	2	1598	21 Ayr Street, Parnell	50	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:15													
Hobson Bay	11/12/2024	2	452	18 Ngapipi Road, Orakei	50	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:55													
Hobson Bay	11/12/2024	2	451	27 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:05													

Hobson Bay	11/12/2024	2	281	49 Ngapuhi Road, Remuera	55	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:25													
Hobson Bay	11/12/2024	2	193	35 Yattendon Road, Sandringham	100	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					21:10													
Hobson Bay	11/12/2024	2	160	45 Ascot Avenue, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					21:00													
Hobson Bay	11/12/2024	2	511	158 Bassett Road, Remuera	90	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	11/12/2024	2	1598	21 Ayr Street, Parnell	65	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	11/12/2024	2	505	9 Scherff Road, Remuera	210	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:00													
Hobson Bay	11/12/2024	2	503	68 Portland Road, Remuera	55	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:50													
Hobson Bay	11/12/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	130	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:50													
Hobson Bay	16/12/2024	2	452	18 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:15													
Hobson Bay	16/12/2024	2	505	9 Scherff Road, Remuera	45	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:15													
Hobson Bay	16/12/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:10													
Hobson Bay	16/12/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:10													
Hobson Bay	26/12/2024	2	505	9 Scherff Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:45													

Hobson Bay	26/12/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:20													
Hobson Bay	7/01/2025	2	453	12a Okahu Street, Orakei	20	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					15:15													
Hobson Bay	21/01/2025	2	505	9 Scherff Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:55													
Hobson Bay	21/01/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:50													
Hobson Bay	25/01/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	70	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:20													
Hobson Bay	26/01/2025	2	505	9 Scherff Road, Remuera	35	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:20													
Hobson Bay	11/02/2025	2	281	49 Ngapuhi Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:10													
Hobson Bay	4/03/2025	2	711	Branch 3 Newmarke t MH 29- Broadway/ St Marks Roads, Newmarke t	1760	Unknown	Yes	Epsom Newmarket	Unknown	Transmissio n	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:10													
Hobson Bay	19/03/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:35													
Hobson Bay	2/04/2025	2	1598	21 Ayr Street, Parnell	2770	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:05													
Hobson Bay	8/04/2025	2	505	9 Scherff Road, Remuera	55	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:30													
Hobson Bay	8/04/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	55	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:10													

Hobson Bay	17/04/2025	2	505	9 Scherff Road, Remuera	20	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Hobson Bay	17/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:20													
Hobson Bay	18/04/2025	2	505	9 Scherff Road, Remuera	335	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:40													
Hobson Bay	18/04/2025	2	160	45 Ascot Avenue, Remuera	65	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					23:40													
Hobson Bay	18/04/2025	2	509	113 Brighton Road, Parnell	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	503	68 Portland Road, Remuera	160	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	508	32 Hapua Street, Remuera	100	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	1630	35 James Cook Crescent, Remuera.	60	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	511	158 Bassett Road, Remuera	240	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	1598	21 Ayr Street, Parnell	115	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Hobson Bay	18/04/2025	2	421	29 Ayr Street A/Middleton Road, Newmarket.	120	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:30													
Hobson Bay	18/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	290	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:10													
Hobson Bay	19/04/2025	2	452	18 Ngapipi Road, Orakei	155	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:25													

Hobson Bay	19/04/2025	2	451	27 Ngapipi Road, Orakei	60	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:25													
Hobson Bay	19/04/2025	2	352	49 Rukutai Street, Orakei	65	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:25													
Hobson Bay	19/04/2025	2	285	77 Meadowbank Road, Meadowbank	120	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:20													
Hobson Bay	19/04/2025	2	711	Branch 3 Newmarket MH 29-Broadway/St Marks Roads, Newmarket	40	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:15													
Hobson Bay	20/04/2025	2	452	18 Ngapipi Road, Orakei	25	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					16:00													
Hobson Bay	20/04/2025	2	503	68 Portland Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:45													
Hobson Bay	20/04/2025	2	505	9 Scherff Road, Remuera	60	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:45													
Hobson Bay	20/04/2025	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:40													
Hobson Bay	20/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:35													
Hobson Bay	20/04/2025	2	281	49 Ngapuhi Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:20													
Hobson Bay	26/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	500	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:50													

Hobson Bay	27/04/2025	2	511	158 Bassett Road, Remuera	380	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:50													
Hobson Bay	27/04/2025	2	505	9 Scherff Road, Remuera	655	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:40													
Hobson Bay	29/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	60	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Hobson Bay	1/05/2025	2	452	18 Ngapipi Road, Orakei	35	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:05													
Hobson Bay	1/05/2025	2	505	9 Scherff Road, Remuera	80	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:15													
Hobson Bay	2/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:55													
Hobson Bay	2/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	50	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:10													
Hobson Bay	8/05/2025	2	452	18 Ngapipi Road, Orakei	250	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:10													
Hobson Bay	8/05/2025	2	451	27 Ngapipi Road, Orakei	155	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:15													
Hobson Bay	8/05/2025	2	160	45 Ascot Avenue, Remuera	110	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					19:20													
Hobson Bay	8/05/2025	2	281	49 Ngapuhi Road, Remuera	445	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Hobson Bay	8/05/2025	2	454	34-36 Apihai Street, Orakei	105	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					19:20													
Hobson Bay	8/05/2025	2	350	44 Rukutai Street, Orakei	70	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													

Hobson Bay	8/05/2025	2	503	68 Portland Road, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:15													
Hobson Bay	8/05/2025	2	505	9 Scherff Road, Remuera	645	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:10													
Hobson Bay	8/05/2025	2	508	32 Hapua Street, Remuera	150	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					19:10													
Hobson Bay	8/05/2025	2	421	29 Ayr Street A/Middlet on Road, Newmarket.	110	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:00													
Hobson Bay	8/05/2025	2	511	158 Bassett Road, Remuera	360	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:10													
Hobson Bay	8/05/2025	2	1630	35 James Cook Crescent, Remuera.	40	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:00													
Hobson Bay	8/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	430	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:55													
Hobson Bay	8/05/2025	2	1598	21 Ayr Street, Parnell	80	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:55													
Hobson Bay	8/05/2025	2	285	77 Meadowbank Road, Meadowbank	130	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					15:50													
Hobson Bay	10/05/2025	2	1598	21 Ayr Street, Parnell	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:50													
Hobson Bay	12/05/2025	2	421	29 Ayr Street A/Middlet on Road, Newmarket.	9790	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:50													
Hobson Bay	12/05/2025	2	193	35 Yattendon Road, Sandringham	230	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:50													

Hobson Bay	16/05/2025	2	213	59 Baddeley Avenue, Kohimarama	25	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:15													
Hobson Bay	18/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:30													
Hobson Bay	26/05/2025	2	452	18 Ngapipi Road, Orakei	115	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:00													
Hobson Bay	26/05/2025	2	503	68 Portland Road, Remuera	80	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:15													
Hobson Bay	26/05/2025	2	511	158 Bassett Road, Remuera	260	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:40													
Hobson Bay	26/05/2025	2	505	9 Scherff Road, Remuera	470	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Hobson Bay	26/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	320	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:50													
Hobson Bay	26/05/2025	2	1598	21 Ayr Street, Parnell	55	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:25													
Hobson Bay	28/05/2025	2	452	18 Ngapipi Road, Orakei	25	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:00													
Hobson Bay	28/05/2025	2	193	35 Yattendon Road, Sandringham	60	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					19:20													
Hobson Bay	31/05/2025	2	193	35 Yattendon Road, Sandringham	60	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					10:00													
Hobson Bay	31/05/2025	2	193	35 Yattendon Road, Sandringham	60	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					3:25													

Hobson Bay	4/06/2025	2	285	77 Meadowbank Road, Meadowbank	170	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:40													
Hobson Bay	4/06/2025	2	503	68 Portland Road, Remuera	50	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	505	9 Scherff Road, Remuera	650	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	508	32 Hapua Street, Remuera	160	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	160	45 Ascot Avenue, Remuera	95	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	511	158 Bassett Road, Remuera	270	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	495	43 Tohunga Crescent, Parnell	55	Unknown	No	Epsom Newmarket	Unknown	Local	Basin	yes	no	no	yes	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	1580	4 St. Marks Road, Remuera	100	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:30													
Hobson Bay	4/06/2025	2	1598	21 Ayr Street, Parnell	70	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:25													
Hobson Bay	4/06/2025	2	421	29 Ayr Street A/Middleton Road, Newmarket	7940	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:20													
Hobson Bay	4/06/2025	2	1630	35 James Cook Crescent, Remuera.	50	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:20													
Hobson Bay	4/06/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	350	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:25													
Hobson Bay	6/06/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	50	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:30													

Hobson Bay	8/06/2025	2	505	9 Scherff Road, Remuera	370	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				23:45														
Hobson Bay	8/06/2025	2	503	68 Portland Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				23:40														
Hobson Bay	8/06/2025	2	511	158 Bassett Road, Remuera	110	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				23:40														
Hobson Bay	8/06/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	190	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				23:35														
Hobson Bay	8/06/2025	2	1598	21 Ayr Street, Parnell	45	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				10:00														
Hobson Bay	10/06/2025	2	452	18 Ngapipi Road, Orakei	130	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				19:25														
Hobson Bay	10/06/2025	2	281	49 Ngapuhi Road, Remuera	290	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:25														
Hobson Bay	10/06/2025	2	285	77 Meadowbank Road, Meadowbank	40	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				19:20														
Hobson Bay	10/06/2025	2	503	68 Portland Road, Remuera	100	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:15														
Hobson Bay	10/06/2025	2	1598	21 Ayr Street, Parnell	85	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:15														
Hobson Bay	10/06/2025	2	505	9 Scherff Road, Remuera	360	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:00														
Hobson Bay	10/06/2025	2	458	88 Paritai Drive, Orakei	1040	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
				19:00														
Hobson Bay	10/06/2025	2	511	158 Bassett Road, Remuera	190	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
				19:00														

Hobson Bay	10/06/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	220	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:45													
Hobson Bay	20/06/2025	2	505	9 Scherff Road, Remuera	20	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Hobson Bay	20/06/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:20													
Hobson Bay	27/06/2025	2	452	18 Ngapipi Road, Orakei	250	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					3:10													
Hobson Bay	27/06/2025	2	458	88 Paritai Drive, Orakei	820	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					4:10													
Hobson Bay	27/06/2025	2	160	45 Ascot Avenue, Remuera	90	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					3:50													
Hobson Bay	27/06/2025	2	1598	21 Ayr Street, Parnell	145	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:45													
Hobson Bay	27/06/2025	2	503	68 Portland Road, Remuera	25	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:20													
Hobson Bay	27/06/2025	2	505	9 Scherff Road, Remuera	650	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:20													
Hobson Bay	27/06/2025	2	421	29 Ayr Street A/Middlet on Road, Newmarke t.	4650	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:20													
Hobson Bay	27/06/2025	2	511	158 Bassett Road, Remuera	440	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:20													
Hobson Bay	27/06/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	60	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:15													
Hobson Bay	29/06/2025	2	458	88 Paritai Drive, Orakei	1120	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					12:00													

Laingholm	26/10/2024	3	2405022	South Titirangi RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair temporary repair that was leaking
					15:00													
Laingholm	27/10/2024	3	2512313	Western RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:25													
Laingholm	29/10/2024	3	1517988	Minnehaha AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv found dip in line, flushed line
					11:56													
Laingholm	2/11/2024	3	2417659	Paturua RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed roots
					10:14													
Laingholm	5/11/2024	3	2518872	Valley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:52													
Laingholm	18/11/2024	3	81158191	Otitori Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:29													
Laingholm	29/11/2024	3	81008510	Aydon RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtail
					17:56													
Laingholm	2/12/2024	3	2410268	South Titirangi RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:56													
Laingholm	3/12/2024	3	81008591	Otitori Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					12:29													
Laingholm	9/12/2024	3	2410002	Rimutaka PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:00													
Laingholm	11/12/2024	3	2416326	Huia RD	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pigtails to unblock
					22:18													
Laingholm	15/12/2024	3	2404295	Grendon RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:59													
Laingholm	19/12/2024	3	2410338	Huia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:03													
Laingholm	31/12/2024	3	2412098	Park RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:24													
Laingholm	17/01/2025	3	2403855	Tane RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:50													
Laingholm	5/08/2024	3	2407104	Tane RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:12													

Laingholm	10/01/2025	3	2408299	Tane RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	flushed line
					12:28											uncontrolled		
Laingholm	6/02/2025	3	2407423	Lookout DR	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	flushed line
					12:32											uncontrolled		
Laingholm	14/02/2025	3	2405300	South Titirangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					9:52											uncontrolled		
Laingholm	27/02/2025	3	2404647	Huia RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:22											uncontrolled		
Laingholm	25/03/2025	3	2404957	Kauri Point RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, pig tails
					12:44											uncontrolled		
Laingholm	31/03/2025	3	81157450	Tane RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:01											uncontrolled		
Laingholm	31/03/2025	3	2409696	South Titirangi RD	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	pig tail, CSE required
					7:37											uncontrolled		
Laingholm	2/11/2024	3	2512409	Sylvan Valley AVE	n/a	Rags	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a	3	repair pipe bridge, cctv
					12:19											uncontrolled		
Laingholm	25/11/2024	3	2416771	Sylvan Valley AVE	n/a	Silts	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	1	flushed line
					17:58											uncontrolled		
Laingholm	13/02/2025	3	2416771	Sylvan Valley AVE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:27											uncontrolled		
Laingholm	14/05/2025	3	1518647	South Titirangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Roots cut and removed.
					13:42											uncontrolled		
Laingholm	2/10/2024	3	2405022	South Titirangi RD	n/a	Broken pipe	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	repair dislodged pipe
					7:12											uncontrolled		
Laingholm	16/10/2024	3	2405022	South Titirangi RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:34											uncontrolled		
Laingholm	23/10/2024	3	2405022	South Titirangi RD	n/a	Broken pipe	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	temporary repair on pipe bridge was leaking, denso tape replaced
					8:44											uncontrolled		
Laingholm	20/05/2025	3	2511506	Huia RD	n/a	Unknown	No	Unknown	L3	Local	Stream	no info	yes	no	no	n/a	No info.	Unblocked using steel rods. Haystacks to contain OF.
					13:11											uncontrolled		

Laingholm	29/05/2025	3	2408550	Karen RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, wash down and disso.
					20:44													
Laingholm	30/10/2024	3	2404531	Kauri Point RD	n/a	Silts	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	0.2	flushed line, haybales used for containment
					10:51													
Laingholm	17/06/2025	3	2404120	Wood Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					15:54													
Laingholm	7/11/2024	3	2404531	Kauri Point RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:52													
Long Bay	23/09/2024	3	2435142	Lingham CRES	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:33													
Long Bay	2/02/2025	3	2538021	Deborah PL	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	pigtail
					20:01													
Long Bay	23/07/2024	3	2433667	Awaruku RD	n/a	Unknown	No	On property	L2	Local	Stream	no	yes	no	no	n/a	0	Back flushed line
					7:56													
Long Bay	25/07/2024	3	2542346	Awaruku RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:11													
Long Bay	29/07/2024	3	2539618	Battensburg PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, removed roots, escalated for CCTV
					15:38													
Long Bay	1/08/2024	3	2541997	Tainui ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					7:46													
Long Bay	2/08/2024	3	2444334	Awaruku RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:48													
Long Bay	24/08/2024	3	2436564	Stredwick DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV
					16:23													
Long Bay	8/09/2024	3	2428312	June PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv
					9:42													
Long Bay	12/09/2024	3	2548966	Stredwick DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, dig up and repair
					9:31													
Long Bay	20/10/2024	3	2534835	Stredwick DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					14:32													

Long Bay	21/10/2024	3	2538914	Stredwick DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					11:00											n/a		
Long Bay	12/10/2024	3	2536646	Thelma CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:02											n/a		
Long Bay	20/10/2024	3	2536646	Thelma CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, flushed line
					8:34											n/a		
Long Bay	23/10/2024	3	2565311	Carex WAY	n/a	Unknown	No	Reserve/ park	L3	Local	Stream	yes	yes	no	no	n/a	No info.	heavy flush, cctv requested
					16:42											n/a		
Long Bay	23/10/2024	3	2437271	Awaruku RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	DSECB unblocked
					9:41											n/a		
Long Bay	4/11/2024	3	2436161	Awaruku RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:33											n/a		
Long Bay	7/11/2024	3	2453056	Okura River RD	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	escalated
					18:31											n/a		
Long Bay	10/11/2024	3	2537102	Ian Sage AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:23											n/a		
Long Bay	26/11/2024	3	2532586	Flavia CL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:44											n/a		
Long Bay	7/01/2025	3	2538306	Flavia CL	n/a	Roots	No	Reserve/ park	L3	Local	Stream	yes	yes	no	no	n/a	6	rods
					11:15											n/a		
Long Bay	8/01/2025	3	2540077	Flavia CL	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:49											n/a		
Long Bay	15/02/2025	3	2529229	Danbury DR	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:19											n/a		
Long Bay	9/09/2024	3	2428499	Awaruku RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	sucker truck, cctv
					9:18											n/a		
Long Bay	19/02/2025	3	2552287	Battenburg PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush, CCTV
					12:30											n/a		
Long Bay	12/09/2024	3	2428499	Awaruku RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, Heavy flush, CCTV
					14:52											n/a		
Long Bay	21/02/2025	3	2427679	Morice PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:10											n/a		
Long Bay	6/03/2025	3	2543519	Waiiau ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:11											n/a		

Long Bay	14/03/2025	3	2436163	Thelma CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:07											n/a		
Long Bay	25/03/2025	3	2542067	Tallington CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:45											n/a		
Long Bay	15/04/2025	3	2540974	Kate Sheppard AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:33											n/a		
Long Bay	18/05/2025	3	2442758	Stredwick DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, and unblocked. Works underway to fix the broken pipe.
					8:21											n/a		
Long Bay	6/06/2025	3	2535137	Kura PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to clear roots, cleaned up and disso.
					10:44											n/a		
Long Bay	24/06/2025	3	2537395	Okura River RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, hay bale for reinstatement.
					17:18											n/a		
Long Bay	20/04/2025	2	832	47 Glenvar Road, Torbay	3660	Unknown	Yes	Torbay	Unknown	Local	Small Waterway	yes	yes	no	yes	yes	No info.	No info.
					8:50											n/a		
Lower Tamaki River	1/07/2024	3	2499149	Penrose RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:44											n/a		
Lower Tamaki River	5/07/2024	3	2568698	Musick Point RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:00											n/a		
Lower Tamaki River	5/07/2024	3	82503702	Castledine CRES	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					16:48											n/a		
Lower Tamaki River	7/07/2024	3	2489460	St Heliers Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					13:13											n/a		
Lower Tamaki River	10/07/2024	3	2596834	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV
					13:59											n/a		
Lower Tamaki River	11/07/2024	3	2601038	Riddell RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, Repaired pipe
					11:57											n/a		

Lower Tamaki River	12/07/2024	3	82423825	Sloane ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line many times, CCTV
					20:24													
Lower Tamaki River	22/07/2024	3	2603444	Holland AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:53													
Lower Tamaki River	25/12/2024	3	2591217	Clouston ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rods
					15:21													
Lower Tamaki River	26/02/2025	3	2482314	Clouston ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:12													
Lower Tamaki River	23/07/2024	3	2597148	Overlea RD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:57													
Lower Tamaki River	25/07/2024	3	2591544	Stewart AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:50													
Lower Tamaki River	19/12/2024	3	2483181	Paddington ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:52													
Lower Tamaki River	24/03/2025	3	2483181	Paddington ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:17													
Lower Tamaki River	25/04/2025	3	2483181	Paddington ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					9:38													
Lower Tamaki River	6/08/2024	3	2595826	Silverton AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, vacuum
					19:20													
Lower Tamaki River	7/08/2024	3	2571212	William Bryan DR	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, light flush, repair pipe
					13:01													
Lower Tamaki River	7/08/2024	3	2568274	Majesty PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, heavy flushed line
					7:39													
Lower Tamaki River	7/08/2024	3	2578825	Manor PK	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, rod line for root removal
					17:00													
Lower Tamaki River	7/08/2024	3	2614977	Marine LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots from line
					10:38													
Lower Tamaki River	10/08/2024	3	2577135	Majesty PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucker truck
					9:08													
Lower Tamaki River	12/08/2024	3	2591467	Kings RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:30													

Lower Tamaki River	17/04/2025	3	2496280	Mount Wellington HWY	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					16:36														
Lower Tamaki River	15/08/2024	3	2603389	West Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					9:08														
Lower Tamaki River	16/08/2024	3	2456658	Loloma DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					9:21														
Lower Tamaki River	22/08/2024	3	2593365	Tunis RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					17:10														
Lower Tamaki River	23/08/2024	3	2504710	Penrose RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Unblocked line
					16:09														
Lower Tamaki River	25/08/2024	3	2487287	Odessa CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, dye test
					14:40														
Lower Tamaki River	16/07/2024	3	2485247	Taniwha ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					13:01														
Lower Tamaki River	3/08/2024	3	2593838	Taniwha ST	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					14:38														
Lower Tamaki River	29/08/2024	3	2604477	Panapa DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, waterblast, sucker truck
					8:09														
Lower Tamaki River	30/08/2024	3	2589039	Courtland AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					10:10														
Lower Tamaki River	30/08/2024	3	2593832	Leybourne CIR	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	uncontrolled	No info.	Flushed line, sucker truck
					9:01														
Lower Tamaki River	4/09/2024	3	2483137	Jellicoe RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed to remove blockage
					18:05														
Lower Tamaki River	10/06/2025	3	2569461	Musick Point RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Jetted to unblock.
					18:21														
Lower Tamaki River	11/09/2024	3	2456712	Thurston PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:09														
Lower Tamaki River	12/09/2024	3	2481957	Riddell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					10:42														
Lower Tamaki River	12/09/2024	3	2573549	Steeple RISE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					7:51														

Lower Tamaki River	16/09/2024	3	2490339	Maxine PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunger
					10:50											n/a uncontrolled		
Lower Tamaki River	20/09/2024	3	2594825	Tobruk RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:57											n/a uncontrolled		
Lower Tamaki River	23/09/2024	3	2485818	Kildare AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:05											n/a uncontrolled		
Lower Tamaki River	23/09/2024	3	2554565	Korere TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					11:12											n/a uncontrolled		
Lower Tamaki River	26/09/2024	3	2406261	Esperance RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	obstruction removed
					9:43											n/a uncontrolled		
Lower Tamaki River	26/09/2024	3	2406362	Donnelly ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:27											n/a uncontrolled		
Lower Tamaki River	28/09/2024	3	2597635	Kildare AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:48											n/a uncontrolled		
Lower Tamaki River	4/10/2024	3	2483059	Rochdale AVE	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a	0	flushed line
					15:34											n/a uncontrolled		
Lower Tamaki River	17/05/2025	3	2466798	Pakuranga RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked, clean up. CCTVd
					11:02											n/a uncontrolled		
Lower Tamaki River	7/10/2024	3	2484649	Vanessa CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	unblock line
					16:19											n/a uncontrolled		
Lower Tamaki River	9/10/2024	3	2481607	Kesteven AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv requested
					15:08											n/a uncontrolled		
Lower Tamaki River	12/10/2024	3	2402882	Brian Slater WAY	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:05											n/a uncontrolled		
Lower Tamaki River	14/10/2024	3	2399301	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					18:06											n/a uncontrolled		
Lower Tamaki River	17/10/2024	3	2483070	Castledine CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	further investigation
					10:04											n/a uncontrolled		
Lower Tamaki River	21/10/2024	3	2481761	Helen PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, root removal
					19:09											n/a uncontrolled		
Lower Tamaki River	23/10/2024	3	2485519	Karaka Park PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:53											n/a uncontrolled		
Lower Tamaki River	26/10/2024	3	2492692	Abraham PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					14:00											n/a uncontrolled		

Lower Tamaki River	29/10/2024	3	2490947	Kings RD	n/a	Unknown	No	Inside property	L3	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:02													
Lower Tamaki River	29/10/2024	3	2595598	Maybury ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:28													
Lower Tamaki River	1/11/2024	3	2593709	Castledine CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					21:08													
Lower Tamaki River	2/11/2024	3	81006215	Wendover RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:52													
Lower Tamaki River	7/11/2024	3	2591467	Kings RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:59													
Lower Tamaki River	19/11/2024	3	2593208	Riverview RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cleared obstruction
					13:34													
Lower Tamaki River	10/11/2024	3	2594361	Modena CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:39													
Lower Tamaki River	10/11/2024	3	2487709	Tobruk RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					19:42													
Lower Tamaki River	12/11/2024	3	2507604	Tidey RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					19:25													
Lower Tamaki River	13/11/2024	3	2507604	Harding AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:15													
Lower Tamaki River	13/11/2024	3	81001277	Peterson RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:13													
Lower Tamaki River	13/11/2024	3	2602064	Felton Mathew AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:43													
Lower Tamaki River	14/11/2024	3	2568032	Sunderlands RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:27													
Lower Tamaki River	19/11/2024	3	2605871	Barrack RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line.
					16:29													
Lower Tamaki River	19/11/2024	3	81004550	Cleary RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:04													
Lower Tamaki River	24/11/2024	3	2597624	Evesham AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:08													
Lower Tamaki River	27/11/2024	3	2401935	Apirana AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:40													

Lower Tamaki River	28/11/2024	3	2484899	Riddell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:03													
Lower Tamaki River	28/11/2024	3	2608277	Lagoon DR	n/a	Unknown	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes	n/a	0	flushed line	
					10:20													
Lower Tamaki River	2/12/2024	3	2569105	Manor PK	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:55													
Lower Tamaki River	3/12/2024	3	2462583	Waller AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					7:35													
Lower Tamaki River	21/04/2025	3	2595664	Lush AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flshed line. Wash down and disso
					22:51													
Lower Tamaki River	22/04/2025	3	2595664	Lush AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso
					17:16													
Lower Tamaki River	3/12/2024	3	2467302	Acmena LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					9:21													
Lower Tamaki River	3/09/2024	3	2466635	Bramley DR	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	remove concrete from line
					12:38													
Lower Tamaki River	7/06/2025	3	2466635	Bramley DR	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked and cleaned up.
					10:26													
Lower Tamaki River	8/12/2024	3	2567041	Lilian PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	PRIVATE
					8:19													
Lower Tamaki River	9/12/2024	3	2485138	Riddell RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:14													
Lower Tamaki River	16/12/2024	3	2491506	Line RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:48													
Lower Tamaki River	17/12/2024	3	82945051	Taniwha ST	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, remove roots
					19:30													
Lower Tamaki River	19/12/2024	3	2603435	Silverton AVE	n/a	Fat	No	On property	L3	Local	SW network	no	no	yes	no	n/a	3ppm	flushed line
					7:25													
Lower Tamaki River	17/01/2025	3	2578096	Pakuranga RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, repair to be done under WO5254511
					15:00													

Lower Tamaki River	21/12/2024	3	2463983	Bungalore PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root cut, additional root cut needed
					6:25													
Lower Tamaki River	23/01/2025	3	2578096	Pakuranga RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up and repair pipe
					19:48													
Lower Tamaki River	29/01/2025	3	2578096	Pakuranga RD	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Dig up and repair required, flushed line, CCTV
					19:21													
Lower Tamaki River	28/12/2024	3	2597108	Ashby AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:19													
Lower Tamaki River	2/01/2025	3	2604031	Point England RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:29													
Lower Tamaki River	10/01/2025	3	2593526	Evesham AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					9:33													
Lower Tamaki River	12/01/2025	3	2563759	Clovelly RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:27													
Lower Tamaki River	15/01/2025	3	2467806	Curacao PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:02													
Lower Tamaki River	15/01/2025	3	2551866	Waddell AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for repair
					19:27													
Lower Tamaki River	16/01/2025	3	2569924	Davita PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:34													
Lower Tamaki River	16/01/2025	3	2401935	Apirana AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:50													
Lower Tamaki River	19/01/2025	3	2589564	Castledine CRES	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, root cut
					14:00													
Lower Tamaki River	22/01/2025	3	2596275	Esperance RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:03													
Lower Tamaki River	21/12/2024	3	2483612	West Tamaki RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:58													
Lower Tamaki River	31/01/2025	3	2608861	Mount Wellington HWY	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					8:45													
Lower Tamaki River	4/02/2025	3	2489830	Castledine CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:07													

Lower Tamaki River	4/02/2025	3	2467202	Fisher PDE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					12:07													
Lower Tamaki River	6/02/2025	3	2588491	Roberta AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:27													
Lower Tamaki River	6/02/2025	3	2570019	Manor PK	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock
					13:39													
Lower Tamaki River	12/02/2025	3	2482784	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:34													
Lower Tamaki River	14/02/2025	3	2512993	Bluegrey AVE	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25ppm	flushed line
					9:31													
Lower Tamaki River	15/02/2025	3	2615135	Ev Perry WAY	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:22													
Lower Tamaki River	17/02/2025	3	2402963	Riddell RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					22:20													
Lower Tamaki River	17/02/2025	3	2591217	Clouston ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:04													
Lower Tamaki River	18/02/2025	3	2467809	Takutai AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					18:11													
Lower Tamaki River	24/02/2025	3	2597698	Forfar RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					22:14													
Lower Tamaki River	25/02/2025	3	2456322	Musick Point RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, dig up and repair
					9:50													
Lower Tamaki River	7/06/2025	3	2594942	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock.
					12:46													
Lower Tamaki River	27/02/2025	3	2576393	Suzetta PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair needed
					8:42													
Lower Tamaki River	11/10/2024	3	2456007	Morrow AVE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					8:48													
Lower Tamaki River	7/06/2025	3	2577011	Morrow AVE	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd, removed roots
					11:39													
Lower Tamaki River	3/12/2024	3	2554268	Eastview RD	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:32													
Lower Tamaki River	11/12/2024	3	2554268	Eastview RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:24													

Lower Tamaki River	6/03/2025	3	2485200	West Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:41													
Lower Tamaki River	8/03/2025	3	2490613	Paddington ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:42													
Lower Tamaki River	27/11/2024	3	2601039	Karaka Park PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:20													
Lower Tamaki River	10/03/2025	3	2583023	Ara Tai	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:08													
Lower Tamaki River	16/05/2025	3	2601039	Karaka Park PL	n/a	Rubbish	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Removed timber. Cleaned up and disso.
					14:52													
Lower Tamaki River	18/05/2025	3	2601039	Karaka Park PL	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					8:41													
Lower Tamaki River	20/05/2025	3	2601039	Karaka Park PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked.
					9:12													
Lower Tamaki River	11/03/2025	3	2482225	West Tamaki RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, root cut
					7:12													
Lower Tamaki River	27/07/2024	3	2483858	Ngarimu RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:54													
Lower Tamaki River	24/03/2025	3	2599276	Morrin RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:49													
Lower Tamaki River	24/03/2025	3	2599276	Morrin RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:46													
Lower Tamaki River	30/03/2025	3	2594519	West Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared
					9:10													
Lower Tamaki River	2/04/2025	3	2591489	Apirana AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:27													
Lower Tamaki River	2/04/2025	3	2562099	Kings RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:34													
Lower Tamaki River	6/04/2025	3	2605264	Lunn AVE	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:36													
Lower Tamaki River	16/11/2024	3	2507604	Harding AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, remove fats & roots
					18:13													

Lower Tamaki River	14/04/2025	3	2598661	Sierra ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:06											uncontrolled		
Lower Tamaki River	25/04/2025	3	2480889	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Further work required, CCTV
					17:03											uncontrolled		
Lower Tamaki River	3/05/2025	3	2480889	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					11:21											uncontrolled		
Lower Tamaki River	5/05/2025	3	2480889	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					12:45											uncontrolled		
Lower Tamaki River	16/05/2025	3	2480889	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, cleaned up and disso.
					13:28											uncontrolled		
Lower Tamaki River	18/04/2025	3	2597631	Athlone RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, further escalation for CSE to remove roots
					15:43											uncontrolled		
Lower Tamaki River	19/02/2025	3	2483066	Kiano PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:56											uncontrolled		
Lower Tamaki River	23/02/2025	3	2483066	Kiano PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:14											uncontrolled		
Lower Tamaki River	21/04/2025	3	2597469	Line RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted and flushed line. Clean up and disso.
					11:37											uncontrolled		
Lower Tamaki River	22/04/2025	3	2598215	Epping ST	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed lateral through to mains. Washed down and disso.
					21:21											uncontrolled		
Lower Tamaki River	23/04/2025	3	2590950	Chelmsford AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Works & Investiagtions still underway.
					15:43											uncontrolled		
Lower Tamaki River	25/04/2025	3	2403117	Esperance RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso
					10:17											uncontrolled		
Lower Tamaki River	29/04/2025	3	2609655	Cleary RD	n/a	Fat	No	Reserve/park	L2	Local	Lake/basin /pond	yes	yes	no	no	n/a	No info.	flushed line
					8:35											uncontrolled		

Lower Tamaki River	11/05/2025	3	2615430	Waipuna RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleared blockage and disso.
					15:16													
Lower Tamaki River	19/08/2024	3	2484850	Riddell RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Arranged repairs
					16:57													
Lower Tamaki River	23/09/2024	3	2598913	Riddell RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed multiple lines
					8:39													
Lower Tamaki River	10/08/2024	3	81001908	Ellerslie-Panmure HWY	n/a	Fat	Yes	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrolled	6	Flushed line, sucker truck
					10:43													
Lower Tamaki River	18/09/2024	3	2498990	Ellerslie-Panmure HWY	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:00													
Lower Tamaki River	9/12/2024	3	2498990	Ellerslie-Panmure HWY	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:44													
Lower Tamaki River	14/05/2025	3	2488925	Whitehaven RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					16:27													
Lower Tamaki River	19/05/2025	3	2482069	Sierra ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso.
					8:12													
Lower Tamaki River	20/05/2025	3	2605520	Peterson RD	n/a	Unknown	No	Retail/commercial/public	L2	Local	Lake/basin /pond	yes	yes	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					8:18													
Lower Tamaki River	21/05/2025	3	2570119	Anna Watson RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock. Also raised MH by 75mm
					17:24													
Lower Tamaki River	25/05/2025	3	2594790	Riddell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT, wash down and disso.
					20:38													
Lower Tamaki River	25/05/2025	3	2488841	West Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and disso.
					15:34													
Lower Tamaki River	3/06/2025	3	2482518	Caulton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, wash down and disso.
					10:40													
Lower Tamaki River	12/09/2024	3	2484821	Esperance RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, dig up and repair
					16:40													

Lower Tamaki River	21/09/2024	3	2407643	Esperance RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv requested
					18:16													
Lower Tamaki River	6/06/2025	3	2463163	Venus PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed.
					10:35													
Lower Tamaki River	4/03/2025	3	2469418	Sarah PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:34													
Lower Tamaki River	5/03/2025	3	2575555	Sarah PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:53													
Lower Tamaki River	23/10/2024	3	2603070	Boakes RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:27													
Lower Tamaki River	13/03/2025	3	2503705	Boakes RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:46													
Lower Tamaki River	12/06/2025	3	2596172	Castledine CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked with plunger, cleaned up and disso.
					7:56													
Lower Tamaki River	28/07/2024	3	2588442	Vista CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:14													
Lower Tamaki River	31/07/2024	3	2588442	Vista CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flushed several times, cut roots
					20:00													
Lower Tamaki River	15/06/2025	3	2603400	Heritage RISE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					14:33													
Lower Tamaki River	16/06/2025	3	2455315	Merton RD	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					8:28													
Lower Tamaki River	16/06/2025	3	2571382	Fisher PDE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked line
					10:42													
Lower Tamaki River	28/05/2025	3	2487791	West Tamaki RD	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed main line, clean up and disso.
					16:10													
Lower Tamaki River	7/10/2024	3	2452878	Merton RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared blockage and flushed line.
					15:36													
Lower Tamaki River	30/10/2024	3	2459340	Merton RD	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					19:38													

Lower Tamaki River	20/06/2025	3	2499843	Cleary RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					16:22													
Lower Tamaki River	25/06/2025	3	2595254	Aragon AVE	n/a	Foreign Object	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line.
					12:41													
Lower Tamaki River	11/01/2025	3	2455183	Musick Point RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods for root removal
					11:11													
Lower Tamaki River	31/03/2025	3	2569461	Musick Point RD	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, rods
					21:26													
Lower Tamaki River	4/05/2025	3	2570895	Musick Point RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted, clean up and disso.
					15:45													
Lower Tamaki River	10/06/2025	3	2455183	Musick Point RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleared line.
					9:35													
Mangere	1/07/2024	3	2510104	Penrose RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					11:11													
Mangere	3/07/2024	3	2473331	Royton AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:41													
Mangere	11/08/2024	3	2580594	Miller RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, heavy flush
					15:16													
Mangere	9/07/2024	3	2600907	Marjorie Jayne CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					10:42													
Mangere	9/07/2024	3	2615671	Hugo Johnston DR	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked line
					11:07													
Mangere	12/07/2024	3	2467035	Wellesley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					11:38													
Mangere	14/07/2024	3	2474520	Dewhurst PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:44													
Mangere	22/07/2024	3	81001423	Sims RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	Flushed line.
					15:28													
Mangere	23/07/2024	3	2577769	Walmsley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					13:29													
Mangere	28/07/2024	3	2472372	Chelburn CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:48													
Mangere	2/08/2024	3	2574294	Bader DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, rods numerous times
					20:32													

Mangere	29/11/2024	3	2464017	Favona RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:15											n/a	uncontroll ed	
Mangere	9/01/2025	3	2464017	Favona RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV requested
					12:21											n/a	uncontroll ed	
Mangere	5/08/2024	3	2470366	Clyro PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:24											n/a	uncontroll ed	
Mangere	10/08/2024	3	2470355	Favona RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush
					15:25											n/a	uncontroll ed	
Mangere	12/08/2024	3	2592033	Mona AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					21:21											n/a	uncontroll ed	
Mangere	13/08/2024	3	2472176	Kaka ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, pipe tp be repaired
					14:46											n/a	uncontroll ed	
Mangere	22/08/2024	3	2469130	Ascot RD	n/a	Unknown	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, CCTV
					16:04											n/a	uncontroll ed	
Mangere	3/09/2024	3	81012327	Hugo Johnston DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					13:51											n/a	uncontroll ed	
Mangere	7/09/2024	3	2576250	Rush PL	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					12:27											n/a	uncontroll ed	
Mangere	9/09/2024	3	2576665	Robertson RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:58											n/a	uncontroll ed	
Mangere	11/09/2024	3	2473050	Massey RD	n/a	Foreign Object	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:37											n/a	uncontroll ed	
Mangere	14/09/2024	3	2399375	Aranui RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:59											n/a	uncontroll ed	
Mangere	14/09/2024	3	2499662	Station RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:43											n/a	uncontroll ed	
Mangere	17/09/2024	3	2400093	Church ST-E	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:07											n/a	uncontroll ed	
Mangere	17/10/2024	3	2612418	Bell AVE	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	0	flushed line
					13:35											n/a	uncontroll ed	
Mangere	9/12/2024	3	2612418	Bell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:06											n/a	uncontroll ed	
Mangere	4/10/2024	3	2570364	Chelburn CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	dig up & repair broken pipe
					9:52											n/a	uncontroll ed	

Mangere	17/05/2025	3	2472751	Rush PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					8:54													
Mangere	10/10/2024	3	2583128	Mascot AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	unblocked line
					6:47													
Mangere	30/10/2024	3	2572187	Killington CRES	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted to clear blockage
					15:30													
Mangere	1/11/2024	3	2572740	Blake RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:15													
Mangere	8/11/2024	3	2471182	Imrie AVE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:37													
Mangere	9/11/2024	3	2475179	Pershire PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					8:32													
Mangere	26/11/2024	3	2469906	Waddon PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	removed roots
					8:16													
Mangere	25/10/2024	3	2570364	Chelburn CRES	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repair diplaced joint
					11:58													
Mangere	26/10/2024	3	2470366	Chelburn CRES	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line to remove fat blockage, cctv
					18:05													
Mangere	30/10/2024	3	2470366	Chelburn CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:06													
Mangere	3/12/2024	3	2588024	Vine ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:49													
Mangere	4/12/2024	3	2469853	Muir AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rehaunching
					20:46													
Mangere	6/12/2024	3	2586797	Vine ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:34													
Mangere	7/06/2025	3	2580665	Vine ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock and cleaned up.
					10:40													
Mangere	9/12/2024	3	2574305	Driver RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:14													
Mangere	11/12/2024	3	2471769	Imrie AVE	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:56													

Mangere	13/12/2024	3	2584275	Dewhurst PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:21											n/a	uncontrolled	
Mangere	13/12/2024	3	2471662	Mangere Town SQ	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, heavy flush
					10:03											n/a	uncontrolled	
Mangere	15/12/2024	3	2572548	Favona RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:59											n/a	uncontrolled	
Mangere	16/12/2024	3	2469849	Vickers CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:57											n/a	uncontrolled	
Mangere	1/01/2025	3	2465224	Taylor RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:55											n/a	uncontrolled	
Mangere	1/01/2025	3	81014664	Nikau RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:48											n/a	uncontrolled	
Mangere	19/07/2024	3	2577584	Ferguson ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, heavy flush
					9:30											n/a	uncontrolled	
Mangere	6/01/2025	3	82778291	Wakefield RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:50											n/a	uncontrolled	
Mangere	7/08/2024	3	2577584	Ferguson ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, Rrepaired pipe
					8:32											n/a	uncontrolled	
Mangere	7/01/2025	3	2574021	Taylor RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV requested
					18:51											n/a	uncontrolled	
Mangere	10/01/2025	3	2465229	Mona AVE	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					22:23											n/a	uncontrolled	
Mangere	12/06/2025	3	2577624	Buckland RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up.
					9:34											n/a	uncontrolled	
Mangere	19/01/2025	3	81000402	Nikau RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:54											n/a	uncontrolled	
Mangere	3/02/2025	3	2566383	Chelsea AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, dig up and repair pipe
					9:02											n/a	uncontrolled	
Mangere	10/02/2025	3	2579316	Staverton CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:20											n/a	uncontrolled	
Mangere	28/11/2024	3	2470114	Garus AVE	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					4:58											n/a	uncontrolled	
Mangere	9/01/2025	3	2470114	Garus AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flush
					10:04											n/a	uncontrolled	

Mangere	17/02/2025	3	81001423	Sims RD	n/a	Broken pipe	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	CCTV, flushed line, repair pipe
					14:29													
Mangere	22/02/2025	3	2475918	Tanners RD	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					12:50													
Mangere	26/02/2025	3	2569740	Favona RD	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					13:09													
Mangere	6/03/2025	3	2577766	Calthorp CL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line, heavy flush
					10:08													
Mangere	10/03/2025	3	2477384	Valiant ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					12:48													
Mangere	19/03/2025	3	2585047	Robertson RD	n/a	Roots	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					9:33													
Mangere	20/03/2025	3	2574024	Korimako AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					17:47													
Mangere	20/03/2025	3	2472962	Tarata CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	heavy flush, CCTV
					18:57													
Mangere	23/03/2025	3	2584694	Waterview RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					21:17													
Mangere	24/03/2025	3	2472919	Robertson RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					12:26													
Mangere	30/03/2025	3	2468522	Archboyd AVE	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					12:04													
Mangere	14/04/2025	3	2499385	Mangere RD	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line, CCTV
					13:17													
Mangere	22/04/2025	3	1346512	Duggan AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Clean up complete. No other info.
					17:18													
Mangere	26/11/2024	3	2576724	Tilberg ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	heavy flush
					21:37													
Mangere	29/11/2024	3	2590635	Tilberg ST	n/a	Fat	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	flushed line
					10:47													
Mangere	29/04/2025	3	1467818	Garus AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	flushed line
					11:27													

Mangere	1/05/2025	3	2583060	Garus AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso. CCTVd.
					15:10													
Mangere	4/05/2025	3	82609350	John Main DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Needs a check - replace valve and controller.
					11:20													
Mangere	7/05/2025	3	2455367	Walmsley RD	n/a	Fat	No	Construction site	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					11:57													
Mangere	8/05/2025	3	2581586	Crawford AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed multiple lines. Cleaned up and disso.
					7:10													
Mangere	14/12/2024	3	2576759	Maitland PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:20													
Mangere	25/12/2024	3	2574824	Maitland PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					17:17													
Mangere	18/06/2025	3	2576759	Maitland PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to clear, wash down and disso.
					9:13													
Mangere	22/06/2025	3	2574824	Maitland PL	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:26													
Mangere	12/09/2024	3	2612656	Hall AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:59													
Mangere	25/06/2025	3	2497068	Hall AVE	n/a	Fat	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					13:36													
Mangere	13/05/2025	3	2464652	Imrie AVE	n/a	Rubbish	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Heavy flushing, removed solids, debris with CSE.
					20:36													
Mangere	16/05/2025	3	2576250	Rush PL	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted. Clean up and disso.
					12:38													
Mangere	18/05/2025	3	2578528	Ashmore PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked.
					10:41													

Mangere	24/05/2025	3	2615070	Coronation RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted to unblock.
					21:48													
Mangere	25/05/2025	3	2473712	Mountain RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed,
					10:57													
Mangere	26/05/2025	3	2579082	Welby PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up, disso and soil reinstatement.
					12:04													
Mangere	26/08/2024	3	2466001	Norton PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:15													
Mangere	7/04/2025	3	2468474	Norton PL	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					19:38													
Mangere	6/08/2024	3	2466388	McIntyre RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flushed line, sucker truck
					20:45													
Mangere	6/08/2024	3	2466388	McIntyre RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:51													
Mangere	4/06/2025	3	2577063	Favona RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked.
					13:25													
Mangere	4/06/2025	3	2585604	Wellesley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up.
					12:52													
Mangere	4/06/2025	3	2584464	Driver RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					13:14													
Mangere	23/09/2024	3	2400643	Great South RD	n/a	Broken pipe	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed piece of broken pipe
					13:51													
Mangere	15/08/2024	3	2579407	Rush PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush multiple times
					14:43													
Mangere	11/07/2024	3	2572175	Tannock PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:48													
Mangere	12/06/2025	3	2572751	Rye CT	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso. Escalated for CCTV.
					10:45													

Mangere	22/12/2024	3	2472556	Chingford CL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:45											n/a	uncontrolled	
Mangere	17/06/2025	3	2469480	Chadwick CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Disso applied.
					13:38											n/a	uncontrolled	
Mangere	22/06/2025	3	2581284	Anarahi PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					17:38											n/a	uncontrolled	
Mangere	24/06/2025	3	2474051	Chalfont ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Sucker truck unblocked line.
					11:19											n/a	uncontrolled	
Mangere	30/06/2025	3	2570363	Cranmere CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock.
					13:28											n/a	uncontrolled	
Omaha	18/07/2024	3	2447643	Harbour View RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Sucker truck
					17:52											n/a	uncontrolled	
Omaha	1/07/2024	3	2447058	Esme GRV	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up
					8:32											n/a	uncontrolled	
Omaha	1/01/2025	3	2453795	Esme GRV	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:11											n/a	uncontrolled	
Omaha	8/12/2024	3	2450923	Omaha DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:51											n/a	uncontrolled	
Omaha	23/12/2024	3	2444162	Excelsior WAY	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					7:52											n/a	uncontrolled	
Omaha	27/12/2024	3	2454787	Shamrock CRST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	dig up and repair pipe
					11:17											n/a	uncontrolled	
Omaha	21/04/2025	3	2550907	Mangatawhiri RD	n/a	Roots	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line. Escalated for CSE root removal
					13:18											n/a	uncontrolled	
Omaha	13/05/2025	3	2461776	Twilight BAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush, cleaned up and disso.
					15:45											n/a	uncontrolled	
Onehunga	1/07/2024	3	2600284	Selwyn ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:56											n/a	uncontrolled	
Onehunga	5/07/2024	3	2600649	Oriana AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:00											n/a	uncontrolled	
Onehunga	5/07/2024	3	2603642	Paihia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					11:37											n/a	uncontrolled	

Onehunga	5/07/2024	3	2493433	Trafalgar ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for root removal
					14:55													
Onehunga	10/07/2024	3	2494774	Selwyn ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:54													
Onehunga	17/07/2024	3	2614576	Neilson ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:17													
Onehunga	18/07/2024	3	2495215	Princes ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0	Flushed line
					14:54													
Onehunga	10/05/2025	3	2598361	Athenic AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					20:31													
Onehunga	24/07/2024	3	2596774	Halsey DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:45													
Onehunga	26/07/2024	3	2492129	Belfast ST	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Replace section of main
					16:18													
Onehunga	11/11/2024	3	81011381	Rangitiki CRES	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					9:44													
Onehunga	13/06/2025	3	2605402	Rangitiki CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					7:53													
Onehunga	28/07/2024	3	2605709	Seacliffe RD	n/a	Roots	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Dye test, remove roots, flush, CCTV
					11:52													
Onehunga	27/08/2024	3	81000364	Rangipawa RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times
					21:25													
Onehunga	2/08/2024	3	2499081	St Oswalds RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:28													
Onehunga	5/08/2024	3	81015533	Hillsborough RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:50													
Onehunga	9/08/2024	3	2608304	Angle ST	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	CCTV, bypass pump, sucker truck, organised repair
					10:16													

Onehunga	17/12/2024	3	81011853	Cardwell ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:50											n/a	uncontrolled	
Onehunga	13/08/2024	3	2497769	Mountjoy PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, dye test
					10:26											n/a	uncontrolled	
Onehunga	20/08/2024	3	2611220	Huapai ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:12											n/a	uncontrolled	
Onehunga	23/08/2024	3	2598361	The Avenue	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a	0.25	Flushed line
					10:02											n/a	uncontrolled	
Onehunga	29/08/2024	3	2491815	Lilac GRV	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Back flushed line
					9:50											n/a	uncontrolled	
Onehunga	23/07/2024	3	2492088	Andes PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					12:03											n/a	uncontrolled	
Onehunga	26/07/2024	3	2492088	Andes PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:23											n/a	uncontrolled	
Onehunga	2/09/2024	3	2497692	Arthur ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	unblocked line
					13:18											n/a	uncontrolled	
Onehunga	3/09/2024	3	2496740	Neilson ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:31											n/a	uncontrolled	
Onehunga	13/09/2024	3	2605825	Miami PDE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					12:23											n/a	uncontrolled	
Onehunga	13/09/2024	3	2602627	Felix ST	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, heavy flush, CCTV
					15:14											n/a	uncontrolled	
Onehunga	16/09/2024	3	2497592	Onehunga MALL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:34											n/a	uncontrolled	
Onehunga	18/09/2024	3	2492556	Mount Smart RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:25											n/a	uncontrolled	
Onehunga	15/12/2024	3	2602918	Wanganella PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:19											n/a	uncontrolled	
Onehunga	22/12/2024	3	2602918	Wanganella PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:10											n/a	uncontrolled	
Onehunga	14/05/2025	3	2595047	Wanganella PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					18:13											n/a	uncontrolled	
Onehunga	25/09/2024	3	2496284	Cardwell ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					7:16											n/a	uncontrolled	

Onehunga	3/08/2024	3	2607917	Symonds ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:55											n/a		
Onehunga	8/10/2024	3	2607917	Symonds ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:07											n/a		
Onehunga	7/01/2025	3	2610299	The Drive	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:51											n/a		
Onehunga	4/10/2024	3	2609395	Rangipawa RD	n/a	Rags	No	Retail/ commercial/ public	L2	Local	SW network	yes	no	yes		n/a	0.25	Flushed line.
					8:18											n/a		
Onehunga	4/10/2024	3	2497041	Rangipawa RD	n/a	Unknown	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:47											n/a		
Onehunga	23/10/2024	3	2590699	Athenic AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:21											n/a		
Onehunga	26/10/2024	3	2613956	Curzon ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repair break
					13:10											n/a		
Onehunga	30/10/2024	3	2511345	Bluff TCE	n/a	Broken pipe	No	Car park	L2	Local	Beach	yes	no	no	yes	n/a	0.25	nearby repair work caused overflow
					11:11											n/a		
Onehunga	30/10/2024	3	2489745	Halsey DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					14:44											n/a		
Onehunga	2/11/2024	3	2503591	Mays RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rootcut
					17:20											n/a		
Onehunga	4/11/2024	3	2616109	Rangitane PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:34											n/a		
Onehunga	6/11/2024	3	2405648	Rawhiti RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, flushed line, root removal
					8:44											n/a		
Onehunga	8/11/2024	3	2499952	Cardwell ST	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:37											n/a		
Onehunga	9/11/2024	3	2604281	Golf RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:59											n/a		
Onehunga	11/11/2024	3	81001133	Gorrie AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:10											n/a		
Onehunga	12/11/2024	3	2596790	Halsey DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rootcut
					6:41											n/a		

Onehunga	14/11/2024	3	82662287	Beckenham AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunged IP
					6:05											n/a	uncontrolled	
Onehunga	29/11/2024	3	2602172	Hollywood AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:06											n/a	uncontrolled	
Onehunga	20/11/2024	3	2498861	Greenpark RD	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked line
					13:28											n/a	uncontrolled	
Onehunga	4/12/2024	3	2484366	Fairsea PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal, flushed line
					8:46											n/a	uncontrolled	
Onehunga	5/12/2024	3	2492046	James Tyler CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					10:21											n/a	uncontrolled	
Onehunga	11/12/2024	3	81205674	Beckenham AVE	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rubbish cleared
					21:45											n/a	uncontrolled	
Onehunga	16/12/2024	3	2612348	Felix ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:43											n/a	uncontrolled	
Onehunga	30/12/2024	3	81002746	Hillsborough RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:11											n/a	uncontrolled	
Onehunga	31/12/2024	3	2507597	Goodland ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:24											n/a	uncontrolled	
Onehunga	5/07/2024	3	2495842	Kowhatu RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					12:27											n/a	uncontrolled	
Onehunga	7/04/2025	3	2495842	Kowhatu RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:08											n/a	uncontrolled	
Onehunga	11/04/2025	3	81000298	Kowhatu RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, further investigation required
					7:18											n/a	uncontrolled	
Onehunga	5/01/2025	3	2489733	Frederick ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:38											n/a	uncontrolled	
Onehunga	9/01/2025	3	2596456	Hillsborough RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					7:32											n/a	uncontrolled	
Onehunga	10/01/2025	3	2608015	Irirangi RD	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	flushed line
					12:41											n/a	uncontrolled	
Onehunga	19/01/2025	3	81000298	Horotutu RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:05											n/a	uncontrolled	

Onehunga	9/01/2025	3	2498903	Jubilee AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:52											uncontrolled		
Onehunga	14/01/2025	3	2498903	Jubilee AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, pipe repair
					16:12											uncontrolled		
Onehunga	28/01/2025	3	2508316	Matai RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					11:47											uncontrolled		
Onehunga	24/02/2025	3	2497043	William AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					13:39											uncontrolled		
Onehunga	8/02/2025	3	2499354	Erson AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					19:24											uncontrolled		
Onehunga	10/02/2025	3	2494778	Mount Smart RD	n/a	Rags	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes		n/a	No info.	flushed line
					8:38											uncontrolled		
Onehunga	13/02/2025	3	81001004	St Andrews RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:16											uncontrolled		
Onehunga	26/02/2025	3	2498687	Rockfield RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:30											uncontrolled		
Onehunga	25/03/2025	3	81012271	Neilson ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:18											uncontrolled		
Onehunga	9/03/2025	3	2489200	Griffen Park RD	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	Oppm	flushed line
					7:39											uncontrolled		
Onehunga	16/03/2025	3	2600654	Victoria ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:47											uncontrolled		
Onehunga	24/03/2025	3	2499341	Selwyn ST	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:05											uncontrolled		
Onehunga	27/03/2025	3	2596013	Hillsborough RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:25											uncontrolled		
Onehunga	29/03/2025	3	81000364	Rangipawa RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rootcut
					12:34											uncontrolled		
Onehunga	8/09/2024	3	81014477	Waitangi RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:20											uncontrolled		
Onehunga	21/09/2024	3	81014477	Waitangi RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv requested
					18:10											uncontrolled		
Onehunga	4/08/2024	3	2609255	Onehunga MALL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					18:54											uncontrolled		

Onehunga	23/08/2024	3	2605186	Onehunga MALL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:32											n/a	uncontrolled	
Onehunga	3/08/2024	3	2617331	Beckenham AVE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Clean up
					16:07											n/a	uncontrolled	
Onehunga	3/09/2024	3	2617331	Beckenham AVE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					18:22											n/a	uncontrolled	
Onehunga	18/11/2024	3	82802352	Selwyn ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:56											n/a	uncontrolled	
Onehunga	4/12/2024	3	2611758	Selwyn ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:37											n/a	uncontrolled	
Onehunga	22/12/2024	3	2495394	Selwyn ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:32											n/a	uncontrolled	
Onehunga	21/07/2024	3	2494791	Forbes ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:32											n/a	uncontrolled	
Onehunga	22/12/2024	3	2494791	Forbes ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:01											n/a	uncontrolled	
Onehunga	12/09/2024	3	2604782	Canberra AVE	n/a	Rags	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	1ppm	flushed line
					12:29											n/a	uncontrolled	
Onehunga	22/04/2025	3	2509393	Buckley RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed mains, cleanup and disso.
					12:36											n/a	uncontrolled	
Onehunga	22/04/2025	3	1459246	Pah RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso
					13:55											n/a	uncontrolled	
Onehunga	11/06/2025	3	2483987	Canberra AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					21:08											n/a	uncontrolled	
Onehunga	23/04/2025	3	2509381	Onehunga MALL	n/a	Rubbish	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	1	Removal of concrete, clean up and disso.
					7:17											n/a	uncontrolled	
Onehunga	24/04/2025	3	2498739	Trafalgar ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	No notes. Just unblocked
					10:13											n/a	uncontrolled	
Onehunga	1/05/2025	3	2604587	Selwyn ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line. Cleared roots.
					16:47											n/a	uncontrolled	
Onehunga	1/05/2025	3	2606777	Greenpark RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					13:34											n/a	uncontrolled	

Onehunga	4/05/2025	3	2488501	Athenic AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Jetted, clean up and disso.
					10:26														
Onehunga	6/05/2025	3	2600463	Seacliffe RD	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	uncontrolled	No info.	Flushed, cleaned up and disso. Needs fruther investigations to find cause.
					12:29														
Onehunga	7/05/2025	3	2488499	Oriana AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, cleaned up and disso.
					11:24														
Onehunga	11/05/2025	3	2491365	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed to partially unblock, clean up and disso. Needs more work.
					14:05														
Onehunga	21/05/2025	3	2491365	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed from GT. CCTV investigation required
					7:32														
Onehunga	24/05/2025	3	2491365	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Cleaned up. CCTV required.
					6:31														
Onehunga	22/01/2025	3	81015085	Heywood CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					21:25														
Onehunga	11/05/2025	3	2479904	Nolan RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed from GT.
					9:26														
Onehunga	3/03/2025	3	2497814	Alfred ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					20:01														
Onehunga	4/03/2025	3	2497814	Alfred ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					21:47														
Onehunga	11/12/2024	3	2495217	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					16:15														
Onehunga	18/12/2024	3	2495217	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					20:04														

Onehunga	27/12/2024	3	2495217	Cardwell ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:19											n/a	uncontrolled	
Onehunga	12/05/2025	3	2608122	Aliford AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up and disso.
					19:51											n/a	uncontrolled	
Onehunga	14/05/2025	3	2608177	Hillsborough RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTVd, flushed debris, cleaned and disso.
					19:50											n/a	uncontrolled	
Onehunga	17/05/2025	3	2613323	Ewenson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, cleaned up and disso.
					17:57											n/a	uncontrolled	
Onehunga	17/05/2025	3	2607046	Baker PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked, clean up and disso.
					12:57											n/a	uncontrolled	
Onehunga	6/07/2024	3	81000261	Princes ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					19:25											n/a	uncontrolled	
Onehunga	13/09/2024	3	2605619	Princes ST	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:07											n/a	uncontrolled	
Onehunga	16/11/2024	3	81000261	Princes ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunged GT
					15:07											n/a	uncontrolled	
Onehunga	31/03/2025	3	81011857	Princes ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Cleared blockage.
					9:28											n/a	uncontrolled	
Onehunga	23/05/2025	3	2496298	Beachcroft AVE	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted.
					13:07											n/a	uncontrolled	
Onehunga	24/05/2025	3	2598548	Halsey DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Root cut, flush & disso.
					15:43											n/a	uncontrolled	
Onehunga	2/06/2025	3	2602315	Saran PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed to unblock. Disso done.
					18:26											n/a	uncontrolled	
Onehunga	4/06/2025	3	2610143	Buckley RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed main line, cleaned up and disso.
					9:50											n/a	uncontrolled	
Onehunga	10/06/2025	3	2609113	Cain RD	n/a	3rd party damage	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	Pipe replaced.
					15:11											n/a	uncontrolled	
Onehunga	12/06/2025	3	2499065	Moana AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Works underway to fix the displacement in line.
					17:29											n/a	uncontrolled	

Onehunga	13/06/2025	3	2497619	Brookfield AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					15:33													
Onehunga	15/06/2025	3	2599210	Manukau RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:50													
Onehunga	16/06/2025	3	2490043	Athenic AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, further investigation underway
					20:22													
Onehunga	19/06/2025	3	2497151	Horotutu RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lateral, cleaned up and disso.
					12:57													
Onehunga	24/06/2025	3	2607649	Onehunga MALL	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleared blockage.
					9:55													
Onehunga	30/06/2025	3	2499354	Erson AVE	n/a	Broken pipe	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTVd and marked for repair. OF due to flushing the line.
					12:22													
Onehunga	10/06/2025	1	208	Aldersgate Road 1 Pump Station	606	Unknown	Yes	Unnamed stream (flowing to Wesley Bay)	Unknown	Local	Small waterway	yes	yes	no	yes	yes	no info	
					19:26													
Onehunga	22/06/2025	1	653	Wesley Bay Glade Pump Station	1	Unknown	No	Unnamed stream (flowing to Wesley Bay)	Unknown	Local	Small waterway	yes	yes	no	yes	yes	no info	
					18:02													
Orewa	27/07/2024	3	2449379	Edgewater GRV	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed line
					16:51													
Orewa	11/08/2024	3	2460920	Parkside DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, vacuum
					12:22													
Orewa	29/08/2024	3	2451096	Manuel RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, hydroexcavate, unblock
					8:57													
Orewa	13/09/2024	3	2538875	Hatfield HTS	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					10:55													
Orewa	18/09/2024	3	2448391	Lakeside DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE
					10:41													

Orewa	20/09/2024	3	1538808	Seamount DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:40													
Orewa	23/04/2025	3	2441861	Milton RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flshed mainline and laterals, vacuum, wash down and disso
					9:40													
Orewa	25/04/2025	3	2441861	Milton RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd, clean up and disso. Further investigations required.
					14:01													
Orewa	30/09/2024	3	2548023	Mermaid MEWS	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv to check for further issues, possible break
					19:50													
Orewa	4/10/2024	3	2550778	Pohutukawa AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root removal
					14:47													
Orewa	5/10/2024	3	2548977	Weiti RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:22													
Orewa	13/10/2024	3	2443773	Weka CL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					19:53													
Orewa	3/11/2024	3	82758728	Rockpool RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:01													
Orewa	5/11/2024	3	2565329	Godfrey DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rootcut, heavy flush
					18:20													
Orewa	12/11/2024	3	2550927	Weiti RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:22													
Orewa	18/11/2024	3	2552286	Centreway RD	n/a	Silts	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					11:21													
Orewa	27/12/2024	3	2442425	Roberta CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:27													
Orewa	28/12/2024	3	2548823	Hibiscus Coast HWY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rods
					11:23													

Orewa	5/01/2025	3	2446758	Hibiscus Coast HWY	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:50													
Orewa	7/01/2025	3	2448373	Hibiscus Coast HWY	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	approval given to push cam line
					17:06													
Orewa	23/01/2025	3	2442472	Parkside DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:59													
Orewa	29/03/2025	3	82575791	Alice AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:30													
Orewa	8/04/2025	3	82575791	Alice AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					11:38													
Orewa	5/02/2025	3	2544069	Jelas RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:11													
Orewa	23/02/2025	3	2558995	Moffat RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush, CSE
					16:11													
Orewa	24/02/2025	3	2552697	Beach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:52													
Orewa	6/03/2025	3	2448796	Lakeside DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:41													
Orewa	12/03/2025	3	2442524	Marine VW	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root removal
					9:37													
Orewa	13/03/2025	3	81154215	Whaley GRNS	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	dig up and repair
					6:43													
Orewa	14/03/2025	3	2454781	Hibiscus Coast HWY	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	dig up and repair
					12:30													
Orewa	22/03/2025	3	2447855	Nukumea CMN	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:01													
Orewa	2/04/2025	3	2545960	Roberta CRES	n/a	Silts	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:23													
Orewa	5/01/2025	3	2446758	Hibiscus Coast HWY	n/a	Rubbish	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:12													
Orewa	28/05/2025	3	2446227	Hibiscus Coast HWY	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Clean up and disso as no other issues found.
					12:35													

Orewa	15/05/2025	3	2446752	Centreway RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed roots using plunger, cleaned up and disso.
					13:02													
Orewa	20/05/2025	3	2550582	Eaves Bush PDE	n/a	Unknown	No	Road/footpath	L2	Local	Lake/basin /pond	yes	yes	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:54													
Orewa	16/11/2024	3	2545396	Lakeside DR	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					17:06													
Orewa	6/03/2025	3	81067170	Lakeside DR	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for CCTV
					9:43													
Pahurehure Inlet	1/07/2024	3	2471293	Great South RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:32													
Pahurehure Inlet	5/07/2024	3	2585239	Benton PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line, escalated for sucker truck
					12:37													
Pahurehure Inlet	7/07/2024	3	2583839	Kohiwi RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked MH
					8:21													
Pahurehure Inlet	10/07/2024	3	2477675	Wordsworth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:24													
Pahurehure Inlet	15/07/2024	3	2583011	Nield RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					11:26													
Pahurehure Inlet	22/07/2024	3	2585374	Mahia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:53													
Pahurehure Inlet	31/07/2024	3	2581766	Thompson TCE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:18													
Pahurehure Inlet	2/08/2024	3	2579144	Wenlock PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:42													
Pahurehure Inlet	7/08/2024	3	2479324	Stratford RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:39													
Pahurehure Inlet	26/08/2024	3	81145844	Sierra WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Replace valve
					15:58													
Pahurehure Inlet	28/08/2024	3	2583598	McLeod RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, pulled roots
					13:55													

Pahurehure Inlet	3/09/2024	3	2581773	Domain RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:17											uncontrolled		
Pahurehure Inlet	9/09/2024	3	2581504	Limond ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv
					11:57											uncontrolled		
Pahurehure Inlet	17/09/2024	3	2477643	John Walker DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					14:00											uncontrolled		
Pahurehure Inlet	17/09/2024	3	2473582	Mahia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:14											uncontrolled		
Pahurehure Inlet	25/09/2024	3	2584048	Caronia CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:17											uncontrolled		
Pahurehure Inlet	25/09/2024	3	2590943	Mahia RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					19:48											uncontrolled		
Pahurehure Inlet	9/10/2024	3	2472727	Montego PL	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line.
					9:37											uncontrolled		
Pahurehure Inlet	11/10/2024	3	2481806	Rimu RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					12:09											uncontrolled		
Pahurehure Inlet	17/10/2024	3	1490095	Angus ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:27											uncontrolled		
Pahurehure Inlet	22/10/2024	3	2471518	Browns RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to clear blockage
					11:23											uncontrolled		
Pahurehure Inlet	31/10/2024	3	2589797	Wordsworth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:55											uncontrolled		
Pahurehure Inlet	31/10/2024	3	2470173	Leaver PL	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushd line
					13:01											uncontrolled		
Pahurehure Inlet	1/11/2024	3	2475031	Gloucester RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					10:02											uncontrolled		
Pahurehure Inlet	5/11/2024	3	2579812	Weymouth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					9:55											uncontrolled		
Pahurehure Inlet	10/02/2025	3	2474011	McLeod RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:42											uncontrolled		
Pahurehure Inlet	21/11/2024	3	2582447	Hutt RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:17											uncontrolled		
Pahurehure Inlet	24/11/2024	3	2585721	Aarts AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods to unblock lateral
					14:46											uncontrolled		

Pahurehure Inlet	26/11/2024	3	2481308	Sandwick DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					11:56														
Pahurehure Inlet	4/12/2024	3	2482404	Friedlanders RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	root removal, flushed rags & fat
					9:04														
Pahurehure Inlet	6/12/2024	3	2469639	Weymouth RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					15:17														
Pahurehure Inlet	13/12/2024	3	2593927	Scotsmoor DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, rods
					8:56														
Pahurehure Inlet	13/12/2024	3	2584189	Carnoustie DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					15:05														
Pahurehure Inlet	20/12/2024	3	2577831	Estuary RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					19:43														
Pahurehure Inlet	22/12/2024	3	2566078	Bedlington AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					9:18														
Pahurehure Inlet	25/12/2024	3	2479431	Mahia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					17:50														
Pahurehure Inlet	29/12/2024	3	2478923	Becker DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					11:06														
Pahurehure Inlet	1/01/2025	3	82609241	Sierra WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					22:53														
Pahurehure Inlet	1/01/2025	3	2586298	Stellata CT	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, rehaunching
					15:31														
Pahurehure Inlet	8/02/2025	3	2587000	Fergy CRES	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:58														
Pahurehure Inlet	20/02/2025	3	2587000	Fergy CRES	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line, rehaunching
					7:08														
Pahurehure Inlet	8/03/2025	3	2587000	Fergy CRES	n/a	Fat	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:09														
Pahurehure Inlet	7/01/2025	3	2585885	Rimu RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, plunger
					17:59														
Pahurehure Inlet	3/02/2025	3	2580195	Roys RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, repair pipe
					11:57														

Pahurehure Inlet	5/02/2025	3	2580195	Roys RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repaired
					12:52													
Pahurehure Inlet	8/01/2025	3	2472723	Thompson TCE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:15													
Pahurehure Inlet	12/01/2025	3	2585659	Russell RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:02													
Pahurehure Inlet	16/01/2025	3	2476139	Jellicoe RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, repair to be completed under WO5254286
					17:24													
Pahurehure Inlet	18/01/2025	3	2581774	Weymouth RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:22													
Pahurehure Inlet	25/01/2025	3	2573398	Arthur RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	replace section of pipe
					9:54													
Pahurehure Inlet	25/05/2025	3	2580785	Buller CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up and disso
					8:26													
Pahurehure Inlet	27/01/2025	3	2487455	Dreadon RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:30													
Pahurehure Inlet	29/01/2025	3	2470628	Eddowes ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:10													
Pahurehure Inlet	29/01/2025	3	2471392	Kita RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					12:41													
Pahurehure Inlet	13/02/2025	3	2479056	William AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:25													
Pahurehure Inlet	3/02/2025	3	2585490	Kita RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					2:13													
Pahurehure Inlet	5/02/2025	3	2478007	Weymouth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:53													
Pahurehure Inlet	10/02/2025	3	2469711	Sharland AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:24													
Pahurehure Inlet	11/02/2025	3	2581352	Great South RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:55													
Pahurehure Inlet	12/10/2024	3	2480778	Sandwick DR	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:31													

Pahurehure Inlet	16/10/2024	3	2480778	Sandwick DR	n/a	Unknown	Yes	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:55											n/a uncontrolled		
Pahurehure Inlet	20/02/2025	3	2577245	Roys RD	n/a	Silts	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CCTV, flush needed
					11:02											n/a uncontrolled		
Pahurehure Inlet	24/02/2025	3	2591867	Friedlanders RD	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:09											n/a uncontrolled		
Pahurehure Inlet	3/03/2025	3	2482963	Hyperion DR	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:16											n/a uncontrolled		
Pahurehure Inlet	4/03/2025	3	2472028	Mahia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:10											n/a uncontrolled		
Pahurehure Inlet	5/03/2025	3	2587857	Cambridge RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:39											n/a uncontrolled		
Pahurehure Inlet	5/03/2025	3	2473483	Bowen ST	n/a	Rags	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, heavy flush
					10:23											n/a uncontrolled		
Pahurehure Inlet	8/03/2025	3	2473483	Myers RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:24											n/a uncontrolled		
Pahurehure Inlet	10/03/2025	3	2469844	Beaumonts WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:45											n/a uncontrolled		
Pahurehure Inlet	10/03/2025	3	2467023	Nearco ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:31											n/a uncontrolled		
Pahurehure Inlet	20/03/2025	3	2475600	Great South RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:15											n/a uncontrolled		
Pahurehure Inlet	3/04/2025	3	2473963	Kirton CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:16											n/a uncontrolled		
Pahurehure Inlet	6/04/2025	3	2589426	Sarteano DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rack used to remove roots
					16:59											n/a uncontrolled		
Pahurehure Inlet	8/04/2025	3	1479571	Brough RD	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a	0.25ppm	pipe repair
					9:17											n/a uncontrolled		
Pahurehure Inlet	9/04/2025	3	1325865	Thompson TCE	n/a	Rags	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					20:48											n/a uncontrolled		
Pahurehure Inlet	10/04/2025	3	2590541	Murrayfield LN	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:43											n/a uncontrolled		
Pahurehure Inlet	27/11/2024	3	2475689	Oratu PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:39											n/a uncontrolled		

Pahurehure Inlet	14/12/2024	3	2577410	Oratu PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:29													
Pahurehure Inlet	22/04/2025	3	2583990	St Annes CRES	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked. Cleaning underway.
					16:44													
Pahurehure Inlet	11/04/2025	3	2473591	Coxhead RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					9:42													
Pahurehure Inlet	24/04/2025	3	1412131	Leaver PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, flushed.
					10:34													
Pahurehure Inlet	12/04/2025	3	2473591	Coxhead RD	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line,CCTV, pipe repair done under WO5318114
					11:57													
Pahurehure Inlet	13/04/2025	3	2473591	Coxhead RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, bypass pumps, pipe repair
					10:23													
Pahurehure Inlet	8/05/2025	3	2579011	Holmes RD	n/a	Unknown	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed line.
					17:49													
Pahurehure Inlet	12/05/2025	3	2580661	Bowater PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. CCTVd. Hole in the MH. Further works underway.
					20:09													
Pahurehure Inlet	18/05/2025	3	1551207	Estuary RD	n/a	Roots	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					18:47													
Pahurehure Inlet	23/05/2025	3	2479218	Pinehurst PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock
					18:20													
Pahurehure Inlet	26/05/2025	3	2586628	Gloucester RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cut section of the pipe, vacuumed and reinstated.
					9:22													
Pahurehure Inlet	28/05/2025	3	2474406	Coles PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cleaned up and disso.
					16:45													
Pahurehure Inlet	31/05/2025	3	2473220	Benton PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblock, clean up and disso.
					10:30													

Pahurehure Inlet	1/06/2025	3	2468379	Benton PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted and unblocked.
					10:47													
Pahurehure Inlet	18/02/2025	3	81205772	Gloucester RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE required
					13:51													
Pahurehure Inlet	20/02/2025	3	2580222	Gloucester RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	hydro excavation, flushed line
					19:46													
Pahurehure Inlet	6/06/2025	3	2470180	Jellicoe RD	n/a	Roots	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Roots removal and cleaned up
					10:13													
Pahurehure Inlet	12/06/2025	3	2482420	Maich RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Warthog to unblock and cleaned up.
					15:56													
Pahurehure Inlet	14/06/2025	3	2589756	Mon Desir PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock, cleaned up and disso.
					13:57													
Pahurehure Inlet	15/06/2025	3	81146005	Hillock RISE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Valve and controller overhauled and reinstated.
					19:16													
Pahurehure Inlet	19/06/2025	3	2482351	Ruby ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Rods to clear blockage. Cleaned up.
					9:09													
Pahurehure Inlet	24/06/2025	3	2578642	Hyperion DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flshed line.
					7:35													
Pahurehure Inlet	30/06/2025	3	2487455	Dreadon RD	n/a	Rags	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					20:55													
Pahurehure Inlet	30/06/2025	3	1357429	Marr RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock.
					12:13													
Puhinui	2/07/2024	3	2585102	Landscape RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:31													
Puhinui	3/07/2024	3	2580678	Tidal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:20													
Puhinui	12/07/2024	3	2590663	Kairanga ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					12:32													

Puhinui	27/07/2024	3	2469507	Arbor CL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					13:36													
Puhinui	15/07/2024	3	2576592	Glasgow AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy Flush, CCTV
					14:36													
Puhinui	8/03/2025	3	2589695	Fitzroy ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:26													
Puhinui	16/07/2024	3	2582641	Keri Anne PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:39													
Puhinui	23/03/2025	3	2589695	Fitzroy ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:16													
Puhinui	16/07/2024	3	2574533	Finlayson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:44													
Puhinui	19/07/2024	3	2473121	Robert Skelton PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:31													
Puhinui	22/05/2025	3	2574938	Henwood RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, roots removed, CCTVd.
					18:53													
Puhinui	21/07/2024	3	2470380	Fairview RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucker truck, flushed line
					17:10													
Puhinui	28/07/2024	3	2578102	Browns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times, CCTV
					17:31													
Puhinui	28/07/2024	3	2569042	Millennium PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, heavy flush
					8:48													
Puhinui	31/07/2024	3	2471165	Atkinson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:25													
Puhinui	2/08/2024	3	2577546	Browns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed several lines
					9:38													
Puhinui	3/08/2024	3	2481049	Lavinia CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:09													
Puhinui	3/08/2024	3	2584636	Browns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:29													
Puhinui	4/08/2024	3	2580010	Garth PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:27													

Puhinui	7/08/2024	3	2484114	Garth PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times
					18:33													
Puhinui	9/08/2024	3	2476232	Lambie DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CSE + rods for root removal
					15:54													
Puhinui	16/08/2024	3	2472581	The Enclave	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, job raised for CCTV
					12:44													
Puhinui	22/08/2024	3	2470618	Banyan DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:15													
Puhinui	27/01/2025	3	2579149	Rowandale AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:50													
Puhinui	30/01/2025	3	2579149	Rowandale AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					16:17													
Puhinui	24/03/2025	3	2479872	Rowandale AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush, CCTV
					10:44													
Puhinui	4/09/2024	3	2581859	Fitzroy ST	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repair displaced joint
					6:47													
Puhinui	5/09/2024	3	2472426	Browns RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:28													
Puhinui	13/01/2025	3	2581173	Maida VALE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					16:22													
Puhinui	5/09/2024	3	2454588	Pah RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					9:54													
Puhinui	7/09/2024	3	2468351	Cavendish DR	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, removed heavy fat
					13:34													
Puhinui	8/09/2024	3	2569647	Millennium PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, heavy flush
					10:31													
Puhinui	10/09/2024	3	2482405	Weymouth RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:00													
Puhinui	12/09/2024	3	2466764	Grande Vue RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:05													
Puhinui	13/10/2024	3	2588599	Palmer's RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:21													

Puhinui	22/03/2025	3	2472299	Palmers RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:46											n/a	uncontrolled	
Puhinui	13/09/2024	3	2481162	Cramond DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:03											n/a	uncontrolled	
Puhinui	13/09/2024	3	2473636	Putney WAY	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					13:55											n/a	uncontrolled	
Puhinui	17/09/2024	3	2464221	Tidal RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods
					13:24											n/a	uncontrolled	
Puhinui	18/09/2024	3	2478447	Earnslaw CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal, CSE
					9:10											n/a	uncontrolled	
Puhinui	27/08/2024	3	2588383	Osterley WAY	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					18:25											n/a	uncontrolled	
Puhinui	26/03/2025	3	2588383	Osterley WAY	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:02											n/a	uncontrolled	
Puhinui	27/09/2024	3	2587467	Maplesden DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					16:53											n/a	uncontrolled	
Puhinui	27/09/2024	3	2477404	Rata Vine DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rootcut
					17:03											n/a	uncontrolled	
Puhinui	28/09/2024	3	2468381	Browns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted
					14:30											n/a	uncontrolled	
Puhinui	2/10/2024	3	2583229	Skipton ST	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:19											n/a	uncontrolled	
Puhinui	9/03/2025	3	2583007	Everglade DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:15											n/a	uncontrolled	
Puhinui	13/03/2025	3	2573402	Everglade DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:17											n/a	uncontrolled	
Puhinui	28/03/2025	3	2583007	Everglade DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:11											n/a	uncontrolled	
Puhinui	12/10/2024	3	1488455	Fairview RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, dig up & replace section of pipe
					15:28											n/a	uncontrolled	
Puhinui	17/10/2024	3	2585209	Maich RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:04											n/a	uncontrolled	
Puhinui	17/10/2024	3	2585209	Orangewood DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Roots removed.
					17:50											n/a	uncontrolled	

Puhinui	12/05/2025	3	2454590	Ferndown AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV'd. Flushed line.
					11:49													
Puhinui	20/10/2024	3	2578121	Inverell AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	multiple flushes, cctv requested
					11:53													
Puhinui	29/10/2024	3	2580827	Rowandale AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:01													
Puhinui	1/11/2024	3	2576976	Roscommon RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, CCTV
					9:51													
Puhinui	6/11/2024	3	2587189	Great South RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:55													
Puhinui	19/11/2024	3	2580322	White RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up, connect lateral to main
					21:25													
Puhinui	21/11/2024	3	2483307	Tidal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:47													
Puhinui	29/11/2024	3	2574839	Phoenix PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:13													
Puhinui	6/12/2024	3	2569626	Hill RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line to remove fat & roots
					15:19													
Puhinui	7/12/2024	3	2583765	Watts RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:59													
Puhinui	5/10/2024	3	2481172	Frederick Reece DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed rags
					11:31													
Puhinui	22/05/2025	3	2593612	Frederick Reece DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:11													
Puhinui	9/12/2024	3	2576063	Puhinui RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line + washdown
					8:43													
Puhinui	10/12/2024	3	2578639	Sophora PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, pigs tail to remove roots
					13:56													
Puhinui	11/12/2024	3	2466070	Banyan DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					12:51													
Puhinui	12/12/2024	3	2470739	Lendenfeld DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					23:45													

Puhinui	5/10/2024	3	1414429	Milan RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:44											uncontrolled		
Puhinui	12/10/2024	3	2463752	Milan RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:41											uncontrolled		
Puhinui	22/02/2025	3	2567968	Milan RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:37											uncontrolled		
Puhinui	5/07/2024	3	2471416	Eric Baker PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:31											uncontrolled		
Puhinui	26/12/2024	3	2471779	De Bloge PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:27											uncontrolled		
Puhinui	31/12/2024	3	2581640	Browns RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:47											uncontrolled		
Puhinui	7/01/2025	3	2470674	Leith CT	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:31											uncontrolled		
Puhinui	10/01/2025	3	2474573	Hanford PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					8:30											uncontrolled		
Puhinui	15/01/2025	3	2474679	Robert Skelton PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					10:39											uncontrolled		
Puhinui	15/01/2025	3	2568849	Noel Burnside RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods, flushed line
					17:30											uncontrolled		
Puhinui	15/01/2025	3	2581173	Russell RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:43											uncontrolled		
Puhinui	18/01/2025	3	2585491	Barneys Farm RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:27											uncontrolled		
Puhinui	19/01/2025	3	2476283	Libnai AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, further actions required
					19:00											uncontrolled		
Puhinui	22/01/2025	3	2574938	Henwood RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:55											uncontrolled		
Puhinui	23/01/2025	3	2572222	Palmetto PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:58											uncontrolled		
Puhinui	30/06/2025	3	2486344	Addington AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					9:37											uncontrolled		

Puhinui	28/01/2025	3	2582409	Ramsey ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	under investigation, possible cross connection
					17:48													
Puhinui	4/12/2024	3	2482408	Gibbons RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:41													
Puhinui	23/02/2025	3	2482408	Gibbons RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:50													
Puhinui	31/01/2025	3	2585209	Maich RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:07													
Puhinui	5/02/2025	3	2561160	Fitzroy ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:52													
Puhinui	13/02/2025	3	2482183	Dalgety DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	escalated for pipe repairs
					7:03													
Puhinui	13/02/2025	3	2578619	Larkspur CT	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					18:42													
Puhinui	15/02/2025	3	2470237	Lawrence CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rehaunching
					18:08													
Puhinui	15/02/2025	3	2586660	Finlayson AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:12													
Puhinui	7/02/2025	3	2580824	Browns RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for dig up
					8:58													
Puhinui	15/03/2025	3	2580824	Browns RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:03													
Puhinui	11/09/2024	3	2488061	Finlayson AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:56													
Puhinui	10/12/2024	3	2488061	Finlayson AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:31													
Puhinui	15/03/2025	3	2469833	Crail CT	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					13:50													
Puhinui	17/03/2025	3	2592146	Lipscombe AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	root removal
					8:31													
Puhinui	17/03/2025	3	2480396	Park AVE	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:57													

Puhinui	20/03/2025	3	2472786	York RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:55											uncontrolled		
Puhinui	28/03/2025	3	2581298	Great South RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					7:51											uncontrolled		
Puhinui	1/04/2025	3	2581970	Lakewood CT	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, further escalation
					9:17											uncontrolled		
Puhinui	7/04/2025	3	2475974	Kirklow PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:43											uncontrolled		
Puhinui	7/04/2025	3	2584564	Norman Spencer DR	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					0:04											uncontrolled		
Puhinui	8/04/2025	3	2468025	Russell RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:26											uncontrolled		
Puhinui	9/04/2025	3	2591818	Haddon ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:17											uncontrolled		
Puhinui	11/04/2025	3	2585017	Skipton ST	n/a	Power Failure	No	On property	L3	Local	Stream	no	yes	no	no	n/a	No info.	Manhole pump repaired.
					4:33											uncontrolled		
Puhinui	2/07/2024	3	2478353	Gibbons RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots
					18:09											uncontrolled		
Puhinui	19/07/2024	3	2473432	Gibbons RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:19											uncontrolled		
Puhinui	17/04/2025	3	2477519	Blackgate PL	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line with combo.
					14:55											uncontrolled		
Puhinui	18/04/2025	3	1358709	Brouder PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					20:40											uncontrolled		
Puhinui	4/05/2025	3	2582975	Banksia PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line. CCTVd. Found steel rod stuck. Escalated to clear it.
					9:30											uncontrolled		
Puhinui	20/12/2024	3	2473470	Kingsclere PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:05											uncontrolled		
Puhinui	24/01/2025	3	2468781	Kingsclere PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	new work order to repair pipe
					9:08											uncontrolled		

Puhinui	23/04/2025	3	2476539	Flamingo CT	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	removal of roots & fats.
					17:48													
Puhinui	17/10/2024	3	2478315	Bellville DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:27													
Puhinui	26/04/2025	3	2590178	Bellville DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso. About to OF. But didn't OF.
					16:43													
Puhinui	24/04/2025	3	2582728	Great South RD	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	No info.	Combo to unblock, flushed line, clean up.
					10:57													
Puhinui	29/08/2024	3	2470792	Maplesden DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush
					9:50													
Puhinui	31/08/2024	3	2470792	Maplesden DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:14													
Puhinui	5/03/2025	3	2569647	Gifford RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:41													
Puhinui	13/06/2025	3	2560114	Gifford RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock. Escalated for heavy flushing and cctv.
					10:00													
Puhinui	15/05/2025	3	2580325	Puhinui RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked, cleaned up and disso.
					7:37													
Puhinui	22/05/2025	3	2583840	Maplesden DR	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted, clean up and disso.
					22:28													
Puhinui	22/05/2025	3	2476257	Laurelia PL	n/a	Rags	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a	No info.	Jetted, clean up and disso.
					9:56													
Puhinui	22/05/2025	3	2588846	Great South RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted, clean up.
					10:06													
Puhinui	23/05/2025	3	2481822	Kennington DR	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted to unblock
					15:48													
Puhinui	23/05/2025	3	2476184	Maplesden DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleared blockage using rod.
					11:28													

Puhinui	2/06/2025	3	2581634	De Havilland DR	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:19													
Puhinui	2/06/2025	3	2473122	Browns RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Jetted to unblock. Escalated for further flushing.
					9:03													
Puhinui	4/06/2025	3	2472767	Kerrs RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush,
					12:32													
Puhinui	23/09/2024	3	2463673	Hillside RD	n/a	fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					13:30													
Puhinui	30/10/2024	3	2456266	Hillside RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:21													
Puhinui	5/06/2025	3	2486299	Cottrell PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTV and clean up, disso.
					23:16													
Puhinui	6/06/2025	3	2585209	Maich RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:04													
Puhinui	6/06/2025	3	2582986	Browns RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, cleaned up and disso.
					8:32													
Puhinui	6/06/2025	3	2574533	Finlayson AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed.
					11:17													
Puhinui	7/06/2025	3	2579764	Hanford PL	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to unblock main line and plunger in the private line.
					15:00													
Puhinui	8/06/2025	3	2468016	Finlayson AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					12:17													
Puhinui	12/03/2025	3	2473970	Adel PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:24													
Puhinui	27/03/2025	3	2473970	Adel PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					13:03													
Puhinui	26/05/2025	3	2584589	Laurelia PL	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted and back flushed.
					13:28													
Puhinui	16/06/2025	3	2584589	Laurelia PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, flushed line
					10:45													

Puhinui	24/06/2025	3	2590298	Laurelia PL	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Shovel to unblock, clean up and disso.
					16:54													
Puhinui	15/06/2025	3	2582656	Noel Burnside RD	n/a	Fat	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					14:34													
Puhinui	16/06/2025	3	2486107	Laurelia PL	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	No info on measure, but cleaned up.
					11:16													
Puhinui	19/06/2025	3	2588912	Avis AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock.
					8:07													
Puhinui	21/06/2025	3	2581971	Inverell AVE	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:28													
Puhinui	24/06/2025	3	2477102	Chonny CRES	n/a	Rubbish	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted, CCTvd and cleared debris and timber from line.
					12:12													
Puhinui	16/07/2024	3	2580337	Nesdale AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:27													
Puhinui	31/07/2024	3	2580337	Nesdale AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:15													
Puhinui	21/08/2024	3	2580337	Nesdale AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:12													
Puhinui	26/08/2024	3	2580337	Nesdale AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:06													
Puhinui	29/08/2024	3	2591788	Malaspina PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					18:15													
Puhinui	23/03/2025	3	2591788	Malaspina PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:35													
Puhinui	30/06/2025	3	2569270	Alabaster DR	n/a	Rubbish	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Suked up debris. Escalated for heavy flushing the line.
					15:10													
Pukekohe	7/07/2024	3	2419307	Hamilton PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	WO raised for repairs
					21:45													

Pukekohe	12/07/2024	3	2424192	O'Connor DR	n/a	Unknown	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					11:30											n/a	uncontroll ed	
Pukekohe	19/07/2024	3	2424934	London ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:56											n/a	uncontroll ed	
Pukekohe	7/08/2024	3	2425516	Tobin ST	n/a	Rags	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					10:35											n/a	uncontroll ed	
Pukekohe	21/07/2024	3	2530026	Reynolds RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:17											n/a	uncontroll ed	
Pukekohe	31/07/2024	3	2418940	Victoria ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					21:30											n/a	uncontroll ed	
Pukekohe	13/11/2024	3	81159186	Victoria ST	n/a	Rags	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:57											n/a	uncontroll ed	
Pukekohe	17/11/2024	3	2529599	Victoria ST	n/a	Unknown	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush, replace wwmh
					9:30											n/a	uncontroll ed	
Pukekohe	28/11/2024	3	81159186	Victoria ST	n/a	Rags	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	heavy flushed line.
					8:36											n/a	uncontroll ed	
Pukekohe	29/11/2024	3	2529599	Victoria ST	n/a	Rags	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	cctv multiple lines, heavy flush, cse to remove obstruction
					11:10											n/a	uncontroll ed	
Pukekohe	15/12/2024	3	2418422	Victoria ST	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv
					10:41											n/a	uncontroll ed	
Pukekohe	2/09/2024	3	2424188	Hall ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush to clear fats
					22:36											n/a	uncontroll ed	
Pukekohe	10/10/2024	3	2419012	Helvetia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush, CCTV
					10:28											n/a	uncontroll ed	
Pukekohe	25/07/2024	3	81156947	Kitchener RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:54											n/a	uncontroll ed	
Pukekohe	21/10/2024	3	2522855	Buckland RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					12:34											n/a	uncontroll ed	
Pukekohe	26/10/2024	3	2416869	Wharf RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:19											n/a	uncontroll ed	

Pukekohe	5/11/2024	3	2424577	Franklin RD	n/a	Rubbish	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					20:06											uncontroll ed		
Pukekohe	12/11/2024	3	2527984	Princes ST	n/a	Rags	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line.
					16:41											uncontroll ed		
Pukekohe	21/11/2024	3	2560332	Nanjing RD	n/a	Foreign Object	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cctv, remove concrete
					11:06											uncontroll ed		
Pukekohe	22/11/2024	3	2424592	West ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:52											uncontroll ed		
Pukekohe	22/11/2024	3	2424592	West ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush, cctv
					17:36											uncontroll ed		
Pukekohe	24/11/2024	3	2418209	Paterson AVE	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:58											uncontroll ed		
Pukekohe	3/12/2024	3	81011638	Kitchener RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:30											uncontroll ed		
Pukekohe	7/12/2024	3	81156870	Roulston ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cse, dig up & repair
					13:44											uncontroll ed		
Pukekohe	2/01/2025	3	81012834	Belgium RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flush
					14:44											uncontroll ed		
Pukekohe	11/02/2025	3	2424410	Stadium DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, fixed line.
					8:49											uncontroll ed		
Pukekohe	11/02/2025	3	2528266	West ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	rods, clean up house
					21:27											uncontroll ed		
Pukekohe	3/03/2025	3	2523903	Tonkin PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunger, flushed line
					8:57											uncontroll ed		
Pukekohe	2/04/2025	3	2417460	Lieshout WAY	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					8:00											uncontroll ed		
Pukekohe	18/10/2024	3	2416869	Aster PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	unblocked line
					13:23											uncontroll ed		
Pukekohe	20/04/2025	3	2612065	Jonah Lomu DR	n/a	Rags	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:31											uncontroll ed		
Pukekohe	8/06/2025	3	2532813	Tuakau RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Roots removal, CCTVd.
					14:26											uncontroll ed		
Pukekohe	7/09/2024	1	1247	Cape Hill Road Pump Station	120	Mechanica l/Maintena nce	Yes	Whangapour i Creek	L1	Local	Large waterway	yes	no	no	no	yes	not tested	
					11:19													

Shoal Bay	16/11/2024	3	2536715	Walter ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:35											uncontrolled		
Shoal Bay	1/01/2025	3	2534578	Walter ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal, CCTV
					13:38											uncontrolled		
Shoal Bay	7/07/2024	3	2544785	Aramoana AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for CCTV + roots removal
					19:33											uncontrolled		
Shoal Bay	8/07/2024	3	2553642	Francis ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					19:56											uncontrolled		
Shoal Bay	27/08/2024	3	2533218	Onewa RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:23											uncontrolled		
Shoal Bay	31/03/2025	3	81008814	Onewa RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:33											uncontrolled		
Shoal Bay	12/07/2024	3	2427505	Porritt AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, removed roots
					9:31											uncontrolled		
Shoal Bay	12/07/2024	3	81158638	Lake RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for CCTV
					10:37											uncontrolled		
Shoal Bay	14/07/2024	3	2541195	Chelsea View DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					16:34											uncontrolled		
Shoal Bay	17/07/2024	3	2546081	Harley RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, escalated for repair
					14:19											uncontrolled		
Shoal Bay	23/07/2024	3	2427477	Eban AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					12:57											uncontrolled		
Shoal Bay	9/08/2024	3	2427477	Eban AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					16:16											uncontrolled		
Shoal Bay	24/07/2024	3	2531938	Kitewao ST	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	Restored broken pipe.
					13:46											uncontrolled		
Shoal Bay	25/07/2024	3	2529953	Aorangi PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Rod line, flushed line
					11:55											uncontrolled		
Shoal Bay	27/08/2024	3	2426991	Kauri Glen RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CSE
					11:15											uncontrolled		

Shoal Bay	5/12/2024	3	2529284	Kauri Glen RD	n/a	Fat	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:10													
Shoal Bay	26/07/2024	3	2433974	Coronation RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:47													
Shoal Bay	2/04/2025	3	2426991	Kauri Glen RD	n/a	Roots	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, root cut
					11:17													
Shoal Bay	28/07/2024	3	2536470	Waitemata RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, sucker truck
					8:48													
Shoal Bay	1/08/2024	3	2528558	Colonial RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for further investigation
					13:20													
Shoal Bay	1/08/2024	3	2544053	Fentham RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, removed roots
					11:11													
Shoal Bay	1/08/2024	3	2434569	Ajax ST	n/a	Unknown	No	Road/ footpath	L2	Local	SW network	yes	no	yes		n/a	No info.	Flushed line, dye test, sucker truck
					10:48													
Shoal Bay	3/01/2025	3	2432579	Trelawny PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:29													
Shoal Bay	3/08/2024	3	2420005	Kauri Glen RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:59													
Shoal Bay	5/08/2024	3	2435248	Abbotsford TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line from IP
					11:07													
Shoal Bay	6/08/2024	3	2422300	Bush View LN	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for CCTV
					19:00													
Shoal Bay	8/08/2024	3	2427685	Norwood RD	n/a	3rd party damage	No	On property	L2	Local	Beach	yes	no	no	yes	n/a	0	CCTV, bypass pump, bung
					13:28													
Shoal Bay	9/08/2024	3	2536206	Pupuke RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, dye test, repair seal
					18:17													
Shoal Bay	10/08/2024	3	2536335	Bayswater AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					16:21													

Shoal Bay	15/08/2024	3	2429111	Queen ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck combo
					10:17													
Shoal Bay	16/08/2024	3	2420007	Mariposa CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:25													
Shoal Bay	20/08/2024	3	2419602	Rawene RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					2:44													
Shoal Bay	23/08/2024	3	2425545	Lake RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					9:51													
Shoal Bay	23/08/2024	3	81012529	Holdaway AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:41													
Shoal Bay	25/08/2024	3	2537911	Princes ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, heavy flush
					13:01													
Shoal Bay	4/08/2024	3	2530894	Mokoia RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, vacuum
					8:14													
Shoal Bay	27/08/2024	3	2532371	Tizard RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:34													
Shoal Bay	19/10/2024	3	2427964	Mokoia RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:45													
Shoal Bay	1/11/2024	3	2426604	Felstead ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rehaunching
					10:49													
Shoal Bay	2/09/2024	3	2436959	Norman RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:31													
Shoal Bay	13/11/2024	3	2426604	Felstead ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Self-cleared. Flushed line, rootcut
					13:12													
Shoal Bay	3/09/2024	3	2528101	Collins ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed line
					10:51													
Shoal Bay	4/09/2024	3	2426624	Wernham PL	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:18													
Shoal Bay	6/09/2024	3	2531124	Bridge View RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:36													

Shoal Bay	6/09/2024	3	2529255	Bank ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:21											n/a	uncontroll ed	
Shoal Bay	6/09/2024	3	2529249	Sylvan AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:31											n/a	uncontroll ed	
Shoal Bay	8/09/2024	3	2523891	Pupuke RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:00											n/a	uncontroll ed	
Shoal Bay	9/09/2024	3	2532264	The Terrace	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	cctv, rags & roots removed
					12:21											n/a	uncontroll ed	
Shoal Bay	7/01/2025	3	2533590	Opu ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, further repai work required
					9:22											n/a	uncontroll ed	
Shoal Bay	30/01/2025	3	2442487	Opu ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, dig up and repair required (under new WO)
					18:20											n/a	uncontroll ed	
Shoal Bay	18/09/2024	3	2534622	Pearn PL	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, heavy flush
					17:35											n/a	uncontroll ed	
Shoal Bay	8/11/2024	3	2430704	Karaka ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:53											n/a	uncontroll ed	
Shoal Bay	4/03/2025	3	2430704	Karaka ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					6:55											n/a	uncontroll ed	
Shoal Bay	5/03/2025	3	2430704	Karaka ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:33											n/a	uncontroll ed	
Shoal Bay	22/09/2024	3	2420156	Inkster ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					12:31											n/a	uncontroll ed	
Shoal Bay	22/09/2024	3	2435538	Bayview RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:26											n/a	uncontroll ed	
Shoal Bay	23/09/2024	3	1548971	Francis ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:09											n/a	uncontroll ed	
Shoal Bay	25/09/2024	3	2429147	Glade PL	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	cctv
					15:06											n/a	uncontroll ed	
Shoal Bay	25/09/2024	3	2425985	Taharoto RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					13:10											n/a	uncontroll ed	
Shoal Bay	27/09/2024	3	1528628	Eban AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:44											n/a	uncontroll ed	

Shoal Bay	1/10/2024	3	2435548	Chelsea View DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:16													
Shoal Bay	17/10/2024	3	2420553	City View TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	failed bypass pump repaired
					9:32													
Shoal Bay	6/10/2024	3	1424529	Ariho TCE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:54													
Shoal Bay	17/06/2025	3	2420553	City View TCE	n/a	Power Failure	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pump was jammed, generator was switched off.
					16:18													
Shoal Bay	20/06/2025	3	2531484	City View TCE	n/a	Power Failure	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Fixed by pass pump failure, clean up and disso.
					14:05													
Shoal Bay	7/10/2024	3	2529927	Bayswater AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblock line
					10:27													
Shoal Bay	7/10/2024	3	2528122	Shoal Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:43													
Shoal Bay	23/06/2025	3	1377357	City View TCE	n/a	Power Failure	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Pump repaired.
					14:14													
Shoal Bay	12/10/2024	3	2527512	Hart RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed multiple lines
					15:40													
Shoal Bay	12/10/2024	3	2530075	St Peters ST	n/a	Unknown	No	Reserve/park	L2	Local	Estuary	yes	no	no		n/a uncontrolled	No info.	Flushed line.
					16:49													
Shoal Bay	9/04/2025	3	1531006	Fraser RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:48													
Shoal Bay	13/04/2025	3	2536795	Fraser RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:00													
Shoal Bay	18/04/2025	3	1531006	Fraser RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV broken lateral, further works required
					15:00													
Shoal Bay	15/10/2024	3	1506116	Victoria RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed lines.
					13:29													

Shoal Bay	25/05/2025	3	2536795	Fraser RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pending repair job.
					10:38													
Shoal Bay	20/10/2024	3	2435550	Onetaunga RD	n/a	Broken pipe	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repaired mh haunching
					16:41													
Shoal Bay	26/03/2025	3	2544098	Rosyth AVE	n/a	3rd party damage	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pipe repair, CCTV
					12:27													
Shoal Bay	24/07/2024	3	2454886	Fraser RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					7:50													
Shoal Bay	2/06/2025	3	2536795	Fraser RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, wash down and disso. Escalated for CCTV.
					17:12													
Shoal Bay	28/10/2024	3	2548596	Barlow PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	denso teape to prevent leak, CCTV to check condition of pipe bridge
					14:50													
Shoal Bay	1/11/2024	3	2427368	Menear LN	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					11:24													
Shoal Bay	5/11/2024	3	2433305	Purchas RD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed rocks and silt
					11:57													
Shoal Bay	9/11/2024	3	2421882	Mariposa CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:27													
Shoal Bay	20/06/2025	3	2532655	Mariposa CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					13:32													
Shoal Bay	7/11/2024	3	2546081	Harley RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, flushed line
					10:48													
Shoal Bay	14/10/2024	3	2533931	Harley RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					12:12													
Shoal Bay	18/10/2024	3	2533931	Harley RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:32													
Shoal Bay	20/10/2024	3	2533931	Harley RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					7:42													
Shoal Bay	21/10/2024	3	2533931	Harley RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dip in line needs flushing
					10:50													

Shoal Bay	13/11/2024	3	2531118	Homewood PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, replace cracked pipe
					17:09													
Shoal Bay	14/11/2024	3	2420814	Mokoia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:59													
Shoal Bay	19/11/2024	3	2528242	Enterprise ST	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					18:12													
Shoal Bay	21/11/2024	3	2542412	Compton ST	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Blockage cleared.
					13:27													
Shoal Bay	22/11/2024	3	2425703	Anzac ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:32													
Shoal Bay	30/11/2024	3	2429430	Seaview AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	roots removed
					15:32													
Shoal Bay	3/11/2024	3	2534623	Council TCE	n/a	Roots	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	pigtail, flushed line
					15:18													
Shoal Bay	2/12/2024	3	2429348	Seabreeze RD	n/a	Broken pipe	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:19													
Shoal Bay	3/12/2024	3	2430704	Karaka ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:00													
Shoal Bay	5/12/2024	3	2436216	Northumberland AVE	n/a	Rags	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	plunger, flushed line
					13:36													
Shoal Bay	5/12/2024	3	2430066	Raymond TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv, root removal
					8:19													
Shoal Bay	16/12/2024	3	2558235	Seaview TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, dye test
					9:17													
Shoal Bay	25/12/2024	3	2441353	Empire RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					9:02													
Shoal Bay	25/12/2024	3	2529538	Shanaway RISE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:49													
Shoal Bay	26/08/2024	3	2538313	Philomel CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cut roots
					15:22													
Shoal Bay	28/05/2025	3	2538313	Philomel CRES	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, wash down and disso.
					20:13													

Shoal Bay	28/12/2024	3	2538045	Onetaunga RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:13													
Shoal Bay	13/04/2025	3	2525325	Onewa RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:41													
Shoal Bay	18/04/2025	3	2525325	Onewa RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, further escalation due to stuck plastic rod
					13:13													
Shoal Bay	30/12/2024	3	2544024	Ravenstone PL	n/a	Broken pipe	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Re-hauling
					17:57													
Shoal Bay	26/10/2024	3	2435547	Heaton GRV	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:54													
Shoal Bay	10/11/2024	3	2533724	Heaton GRV	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:39													
Shoal Bay	5/01/2025	3	2428576	James Evans DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:01													
Shoal Bay	14/01/2025	3	2424516	Moore ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					20:28													
Shoal Bay	17/01/2025	3	2432760	Speedy CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repair
					11:15													
Shoal Bay	24/01/2025	3	2431255	Alfred ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:59													
Shoal Bay	27/01/2025	3	2536023	Coronation RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv requested
					6:56													
Shoal Bay	30/11/2024	3	2527505	Glade PL	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:52													
Shoal Bay	27/02/2025	3	2527505	Glade PL	n/a	Rags	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:31													
Shoal Bay	28/01/2025	3	2439006	Ravenstone PL	n/a	Broken pipe	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	leak repaired with tape
					9:02													
Shoal Bay	29/01/2025	3	2429188	Richmond AVE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:25													
Shoal Bay	30/01/2025	3	2439847	Chelsea View DR	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	CSE to repair, further work required
					10:59													

Shoal Bay	3/02/2025	3	2439459	Waterview RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					19:15													
Shoal Bay	4/02/2025	3	2435498	Williamson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:07													
Shoal Bay	13/10/2024	3	2542412	Compton ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, repair break
					17:13													
Shoal Bay	21/11/2024	3	2430067	Compton ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pipe restored and reinstatement of the premises.
					8:31													
Shoal Bay	12/02/2025	3	2537498	Moore ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:01													
Shoal Bay	12/02/2025	3	2562670	Lake RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:56													
Shoal Bay	13/02/2025	3	2532519	Maritime TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					20:09													
Shoal Bay	15/02/2025	3	2424013	Kororo ST	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	flushed line, pipe repairs requested
					11:27													
Shoal Bay	15/02/2025	3	2431409	Alton TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:00													
Shoal Bay	17/02/2025	3	2527505	Glade PL	n/a	Broken pipe	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV, further work required
					12:46													
Shoal Bay	17/02/2025	3	2421877	Zion RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:45													
Shoal Bay	20/02/2025	3	2539789	Langstone PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					9:00													
Shoal Bay	1/03/2025	3	2435843	Aramoana AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:54													
Shoal Bay	4/03/2025	3	2429418	Ko ST	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE
					15:40													
Shoal Bay	8/03/2025	3	2442623	Cowper ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:56													
Shoal Bay	10/03/2025	3	2427508	Tizard RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:28													

Shoal Bay	11/03/2025	3	2536375	Winscombe ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:04											n/a		
Shoal Bay	17/03/2025	3	2541801	Waterview RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, escalated for dig and repair, CCTV
					13:00											n/a		
Shoal Bay	8/07/2024	3	2539520	Williamson AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:13											n/a		
Shoal Bay	17/07/2024	3	2539520	Williamson AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:15											n/a		
Shoal Bay	19/07/2024	3	2539520	Williamson AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:59											n/a		
Shoal Bay	21/03/2025	3	2419594	Zion RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CSE
					11:57											n/a		
Shoal Bay	21/03/2025	3	2425220	Sylvan AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, root cut
					10:47											n/a		
Shoal Bay	27/03/2025	3	2424206	Monarch AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rods
					10:35											n/a		
Shoal Bay	28/03/2025	3	2429810	College RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:43											n/a		
Shoal Bay	31/03/2025	3	2531904	Potter AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:02											n/a		
Shoal Bay	31/03/2025	3	2429975	Stanley Point RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	flushed line, CCTV required
					17:33											n/a		
Shoal Bay	6/04/2025	3	1500197	Aorangi PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pigtail
					16:53											n/a		
Shoal Bay	6/04/2025	3	2440232	Regent ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pig tail, flushed line
					8:17											n/a		
Shoal Bay	6/04/2025	3	2537248	Potter AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:23											n/a		
Shoal Bay	6/04/2025	3	2529837	Alfred ST	n/a	Roots	No	Road/footpath	L2	Local	SW network	yes	no	yes	n/a	No info.	flushed line	
					11:02											n/a		
Shoal Bay	13/04/2025	3	2563256	Waitemata RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:35											n/a		

Shoal Bay	16/04/2025	3	2432238	Spencer TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:19													
Shoal Bay	10/03/2025	3	2542864	Cowper ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:09													
Shoal Bay	8/05/2025	3	1528005	Cowper ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					18:37													
Shoal Bay	23/04/2025	3	2532114	Lake RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal, Heavy flush, CCTVd
					19:29													
Shoal Bay	24/04/2025	3	2528732	Porritt AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					13:51													
Shoal Bay	24/04/2025	3	2543840	Lake RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					15:20													
Shoal Bay	29/04/2025	3	1525467	Mozeley AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:59													
Shoal Bay	8/09/2024	3	2428028	Deuxberry AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:18													
Shoal Bay	15/09/2024	3	2428028	Deuxberry AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:22													
Shoal Bay	15/03/2025	3	2532527	Deuxberry AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:48													
Shoal Bay	6/05/2025	3	2537725	Glenfield RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Plunger to clear GT. Disso applied.
					9:56													
Shoal Bay	7/05/2025	3	2531448	Onewa RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed ftas and rubbish with pigtail and flushed line. Cleaned up and disso.
					21:30													
Shoal Bay	11/11/2024	3	2531904	Potter AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV
					18:04													

Shoal Bay	16/05/2025	3	2528015	Napier AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					13:38													
Shoal Bay	20/05/2025	3	2538668	James Evans DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					8:17													
Shoal Bay	2/06/2025	3	2534770	Colonial RD	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Cleaned up and disso as flow was fine when crew arrived.
					11:47													
Shoal Bay	10/06/2025	3	2534770	Colonial RD	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Cleaned up and disso.
					10:28													
Shoal Bay	25/05/2025	3	2530855	Maritime TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Root cut, flush & disso.
					17:43													
Shoal Bay	30/06/2025	3	2530855	Maritime TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots and flushed.
					14:43													
Shoal Bay	14/07/2024	3	2423355	Seaview AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					13:08													
Shoal Bay	28/01/2025	3	2423355	Seaview AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTVd.
					12:43													
Shoal Bay	14/04/2025	3	2423355	Seaview AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:14													
Shoal Bay	3/06/2025	3	2429720	Awanui ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, wash down and disso.
					9:19													
Shoal Bay	16/03/2025	3	2434128	Northboro RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, escalated for CSE
					20:50													
Shoal Bay	6/01/2025	3	2440360	Wesley ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					6:28													
Shoal Bay	5/05/2025	3	2440360	Wesley ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:52													
Shoal Bay	18/06/2025	3	1495706	Wesley ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso. Escalated for CCTV.
					9:52													

Shoal Bay	13/06/2025	3	2438894	Roberts AVE	n/a	Rubbish	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed. CSE to clear rubbish and soil. Escalated for bending repair.
					11:18													
Shoal Bay	14/06/2025	3	2436544	Bayswater AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock. Cleaned up and disso. CCTVd, escalated after finding cracked pipe.
					15:11													
Shoal Bay	16/06/2025	3	2441345	Church ST	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	cse to remove garden stones
					16:35													
Shoal Bay	20/06/2025	3	2422628	Maunganui RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CSE to remove roots, clean up and disso.
					10:22													
Shoal Bay	23/06/2025	3	2533931	Harley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Backflushed to unblock, washdpwn and disso.
					12:51													
Shoal Bay	24/06/2025	3	1398311	Eversleigh RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:05													
Shoal Bay	5/07/2024	3	2529953	Aorangi PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:51													
Shoal Bay	29/06/2025	3	2541152	Vauxhall RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:11													
Shoal Bay	26/08/2024	3	2529953	Aorangi PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line from DS MH
					10:41													
Shoal Bay	12/05/2025	3	2420247	Aorangi PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					18:38													

Shoal Bay	25/08/2024	2	829	28 Waitemata Road, Hauraki	14:20	20	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
Snells Beach/Algies Bay	9/09/2024	3	2546434	Willjames AVE	12:49	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	flushed line
Snells Beach/Algies Bay	22/10/2024	3	2459721	Hapuka CL	8:49	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontroll ed	No info.	flushed line
Snells Beach/Algies Bay	28/11/2024	3	2445568	Mera RD	13:39	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	flushed line
Snells Beach/Algies Bay	26/12/2024	3	2548087	Mera RD	19:04	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontroll ed	No info.	flushed line, heavy flush requested
Snells Beach/Algies Bay	20/01/2025	3	2456783	Goodall RD	13:40	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	tighten bolt on pipe
Upper Harbour North	3/03/2025	3	2443511	Mercari WAY	8:35	n/a	Fat	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontroll ed	No info.	flushed line
Upper Harbour North	24/06/2025	3	2443511	Mercari WAY	14:34	n/a	Fat	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontroll ed	No info.	Flushed, CCTV, clean up and disso
Upper Harbour North	5/07/2024	3	2540871	Churchous e RD	14:03	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontroll ed	0	Flushed line
Upper Harbour North	7/07/2024	3	2431585	Arirang RISE	12:18	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	Removed roots
Upper Harbour North	10/07/2024	3	2541769	Fernhill WAY	10:20	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	Flushed line, CCTV, scheduled repairs
Upper Harbour North	24/07/2024	3	2430035	Waipuia PL	10:18	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontroll ed	0.2	Replaced broken pipe.
Upper Harbour North	27/07/2024	3	2426849	Unsworth DR	11:03	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	Removed roots
Upper Harbour North	29/07/2024	3	2538530	Oteha Valley RD	17:33	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	Flushed line, removed roots
Upper Harbour North	6/08/2024	3	2537358	Sohlue PL	9:33	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontroll ed	No info.	Unblocked line

Upper Harbour North	28/01/2025	3	2427672	Henry Rose PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line to break up fats
					18:49													
Upper Harbour North	29/01/2025	3	2533617	Henry Rose PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:09													
Upper Harbour North	19/08/2024	3	2437841	Armstrong RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, removed roots pig tail,escalate for CSE
					13:18													
Upper Harbour North	22/08/2024	3	2431951	Mercury LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:37													
Upper Harbour North	5/02/2025	3	2550477	Oak Manor DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:57													
Upper Harbour North	6/02/2025	3	2550477	Oak Manor DR	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repair
					18:05													
Upper Harbour North	12/09/2024	3	2530473	Fernhill WAY	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:13													
Upper Harbour North	13/09/2024	3	2535325	Rising PDE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:25													
Upper Harbour North	24/09/2024	3	2434042	Kyle RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:14													
Upper Harbour North	4/10/2024	3	2541689	Beatrice Tinsley CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					8:48													
Upper Harbour North	10/10/2024	3	2540912	Louvain PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed multiple lines
					18:23													
Upper Harbour North	10/10/2024	3	2542310	Rook PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse necessary to remove roots
					14:38													
Upper Harbour North	11/10/2024	3	2428533	Outlook RD	n/a	Fat	No	Retail/commercial/public	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	3	flushed line
					14:21													
Upper Harbour North	12/10/2024	3	2559522	Albany HWY	n/a	Rubbish	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:47													
Upper Harbour North	16/10/2024	3	1490901	Columbia PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					12:52													

Upper Harbour North	16/10/2024	3	1467556	Medallion DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up done, CCTV report to inform action with a new job.
					12:23													
Upper Harbour North	18/10/2024	3	2529714	Borneo DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line and reinstated completed.
					20:05													
Upper Harbour North	19/10/2024	3	2437350	Rahui RD	n/a	Silts	No	Reserve/park	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	No info.	Flushed line.
					12:34													
Upper Harbour North	8/02/2025	3	2532559	Sunnyview RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.5ppm	flushed line
					11:03													
Upper Harbour North	24/04/2025	3	2532559	Sunnyview RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					21:11													
Upper Harbour North	24/10/2024	3	2554993	Travis View DR	n/a	Fat	No	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	6	heavy flush
					15:16													
Upper Harbour North	25/10/2024	3	2547670	The Avenue	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					17:31													
Upper Harbour North	2/11/2024	3	1508303	Kirklow PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:51													
Upper Harbour North	1/11/2024	3	2437506	William Pickering DR	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, removed rocks
					11:40													
Upper Harbour North	8/11/2024	3	2549217	Windsor PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no notes
					10:10													
Upper Harbour North	18/11/2024	3	2423171	Rising PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:19													
Upper Harbour North	22/09/2024	3	2532378	Island Bay RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushied line
					9:04													
Upper Harbour North	18/11/2024	3	2437419	St Lucia PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleared blockage
					20:10													
Upper Harbour North	23/11/2024	3	2431839	Unsworth DR	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:00													
Upper Harbour North	10/03/2025	3	2530217	Unsworth DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:34													

Upper Harbour North	23/08/2024	3	2535151	East Coast RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line, tract cam + root cut
					16:53													
Upper Harbour North	7/10/2024	3	2535151	East Coast RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV
					8:50													
Upper Harbour North	22/10/2024	3	2535151	East Coast RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed
					8:13													
Upper Harbour North	24/11/2024	3	2532354	Barbados DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:34													
Upper Harbour North	1/11/2024	3	2535874	Rimu RISE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:49													
Upper Harbour North	7/11/2024	3	2535874	Rimu RISE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:34													
Upper Harbour North	2/12/2024	3	2539806	Bushlands Park DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:59													
Upper Harbour North	16/12/2024	3	2536416	Ride WAY	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dropper repaired and patched broken section.
					7:33													
Upper Harbour North	26/12/2024	3	2459607	Admirals Court DR	n/a	Fat	No	Reserve/ park	L2	Local	Estuary	yes	no	no	no	n/a uncontrolled	0.5ppm	flushed line
					11:44													
Upper Harbour North	26/12/2024	3	2543253	Hugh Green DR	n/a	Roots	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:44													
Upper Harbour North	27/12/2024	3	81153737	Oteha Valley RD	n/a	3rd party damage	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	plunger
					14:23													
Upper Harbour North	28/12/2024	3	2544586	Oteha Valley RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger
					10:41													
Upper Harbour North	5/01/2025	3	2557581	Ballyboe PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:54													
Upper Harbour North	13/05/2025	3	2554833	Ballyboe PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Engineering investigations under way.
					11:09													
Upper Harbour North	7/01/2025	3	2541639	Albany HWY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cut roots
					15:22													

Upper Harbour North	8/01/2025	3	2542382	Blacks RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:31													
Upper Harbour North	12/01/2025	3	2434347	Scarlet Oak DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CSE, rods
					15:20													
Upper Harbour North	13/01/2025	3	2531997	East Coast RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, root removal, escalate for repairs
					15:45													
Upper Harbour North	14/01/2025	3	2532247	Rising PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE
					11:50													
Upper Harbour North	17/01/2025	3	2444690	Oteha Valley RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:03													
Upper Harbour North	18/01/2025	3	81157853	Dairy Flat HWY	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					6:56													
Upper Harbour North	28/01/2025	3	2428789	Lemon Grove LN	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed rags & silt
					20:55													
Upper Harbour North	30/01/2025	3	2438522	Thornbill RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root cut - no overflow
					13:04													
Upper Harbour North	3/02/2025	3	2571474	Roland RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	denso tape, tighten bolts
					12:55													
Upper Harbour North	4/02/2025	3	2542936	Sevilla PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:40													
Upper Harbour North	11/02/2025	3	81154755	Albany HWY	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:29													
Upper Harbour North	13/02/2025	3	2536240	Albany HWY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:18													
Upper Harbour North	16/02/2025	3	2540370	Caribbean DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					13:21													
Upper Harbour North	17/02/2025	3	2543966	Fields PDE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:02													
Upper Harbour North	9/03/2025	3	2531993	Owl CT	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:39													
Upper Harbour North	14/03/2025	3	2427923	Killybegs DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:05													

Upper Harbour North	18/03/2025	3	2529851	Parkhead PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					16:49													
Upper Harbour North	24/03/2025	3	2437162	The Avenue	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:34													
Upper Harbour North	25/03/2025	3	2539252	Devonshire RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:58													
Upper Harbour North	27/03/2025	3	2431223	Mulroy PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, further work required
					17:47													
Upper Harbour North	31/03/2025	3	2544381	Arrenway DR	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:54													
Upper Harbour North	1/04/2025	3	2538955	Parkway DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root removal, CSE
					9:32													
Upper Harbour North	1/04/2025	3	2538955	Parkway DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CSE root removal
					11:41													
Upper Harbour North	8/04/2025	3	2428302	Lismore WAY	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:06													
Upper Harbour North	8/04/2025	3	2537329	Meteor PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for CSE
					11:22													
Upper Harbour North	13/04/2025	3	2433885	Pukatea AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:15													
Upper Harbour North	13/04/2025	3	2432547	Waipuia PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rod, flushed line, CSE
					9:28													
Upper Harbour North	14/04/2025	3	2430194	Manu PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:52													
Upper Harbour North	20/04/2025	3	2544952	Dairy Flat HWY	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	unblocked line
					9:12													
Upper Harbour North	19/08/2024	3	2551077	Caribbean DR	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:37													
Upper Harbour North	23/10/2024	3	2551077	Caribbean DR	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:26													

Upper Harbour North	23/04/2025	3	2533166	William Pickering DR	n/a 17:09	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
Upper Harbour North	29/04/2025	3	2430587	Sunset RD	n/a 12:01	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
Upper Harbour North	4/05/2025	3	2441721	Tauhinu RD	n/a 16:45	Broken pipe	No	Road/footpath	L2	Local	SW network	yes	yes	yes	no	n/a uncontrolled	No info on results but was tested.	Fixed leaky pipe and soil reinstated.
Upper Harbour North	7/05/2025	3	2428586	Manu PL	n/a 19:55	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
Upper Harbour North	5/08/2024	3	2424280	Northbrook CL	n/a 17:08	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times
Upper Harbour North	24/01/2025	3	2421056	Northbrook CL	n/a 8:58	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
Upper Harbour North	12/05/2025	3	1513469	Churchouse RD	n/a 12:17	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washed down and clean up.
Upper Harbour North	31/01/2025	3	2430571	Sunset RD	n/a 14:01	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods to remove roots
Upper Harbour North	9/02/2025	3	2430571	Sunset RD	n/a 10:52	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE
Upper Harbour North	16/05/2025	3	2533164	Albany HWY	n/a 11:55	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
Upper Harbour North	22/05/2025	3	2433799	Pelican LN	n/a 21:49	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
Upper Harbour North	23/05/2025	3	2432965	William Pickering DR	n/a 9:10	Unknown	No	Retail/commercial/public	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso.
Upper Harbour North	23/05/2025	3	2537745	Unsworth DR	n/a 14:14	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
Upper Harbour North	24/05/2025	3	2561744	Admirals Court DR	n/a 14:49	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, cleaned up.
Upper Harbour North	29/05/2025	3	2428162	Vinewood DR	n/a 9:26	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked.

Upper Harbour North	1/06/2025	3	2536241	Albany HWY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to clear roots, cleaned up and disso.
					14:36													
Upper Harbour North	24/09/2024	3	2435103	Greenhithe RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:12													
Upper Harbour North	23/02/2025	3	2536119	Greenhithe RD	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	heavy flush, escalate for DNZ, mahole replacement
					10:56													
Upper Harbour North	18/06/2025	3	2455004	Windfall GRV	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up.
					12:26													
Upper Harbour North	24/06/2025	3	2427766	Coliseum DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots. Cleaned up.
					16:03													
Upper Harbour North	28/06/2025	3	2533893	Mercari WAY	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Removed roots, washdown and disso. Escalated for CSE.
					16:49													
Upper Harbour North	29/06/2025	3	2537787	Oteha Valley RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Rods and catcher to remove fats. Washdown and disso.
					9:50													
Upper Harbour North	26/10/2024	1	874	Churchouse Road Pump Station	18	Power Failure	Yes	Greenhithe Stream	L2	Transmission	Small waterway	yes	yes	no	no	yes	no info	
					10:04													
Upper Harbour North	13/11/2024	1	874	Churchouse Road Pump Station	40	Power Failure	Yes	Greenhithe Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info	
					21:18													
Upper Harbour South	1/07/2024	3	2551229	Beach Haven RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, Flushed line
					13:11													
Upper Harbour South	1/07/2024	3	2542135	Brunton PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, CCTV
					18:56													
Upper Harbour South	3/07/2024	3	2440989	Waipa ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:23													

Upper Harbour South	4/07/2024	3	2527869	Salisbury RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					10:59													
Upper Harbour South	25/08/2024	3	2541111	Contessa DR	n/a	Unknown	Yes	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrolled	6	Rod line, unblocked line, sucker truck
					10:32													
Upper Harbour South	10/05/2025	3	2541111	Contessa DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					17:52													
Upper Harbour South	14/07/2024	3	2429648	Noeleen ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:04													
Upper Harbour South	23/07/2024	3	2529911	Valley View RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:03													
Upper Harbour South	25/07/2024	3	2438229	Paramu AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:07													
Upper Harbour South	25/05/2025	3	1531603	John Court ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					8:25													
Upper Harbour South	29/05/2025	3	1531603	John Court ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, wash down and disso.
					13:18													
Upper Harbour South	26/07/2024	3	2421782	Noeleen ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Related to Watercare development
					18:40													
Upper Harbour South	29/07/2024	3	2428349	Telstar PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:11													
Upper Harbour South	29/07/2024	3	2542031	Onetaunga RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:17													
Upper Harbour South	31/07/2024	3	2433072	Eskdale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:10													
Upper Harbour South	2/08/2024	3	2524846	Kaipatiki RD	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, pulled up roots, sucker truck
					18:43													
Upper Harbour South	5/02/2025	3	2541867	Hadfield ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					9:59													
Upper Harbour South	23/02/2025	3	2541867	Hadfield ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, pigtails
					15:54													

Upper Harbour South	30/03/2025	3	2541867	Hadfield ST	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:51													
Upper Harbour South	13/12/2024	3	2421682	Lynn RD	n/a	Unknown	Yes	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	1ppm	Rod
					10:38													
Upper Harbour South	31/12/2024	3	2420576	Lynn RD	n/a	Rags	Yes	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	1ppm	flushed line, CCTV
					10:14													
Upper Harbour South	10/08/2024	3	2420424	Aeroview DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:59													
Upper Harbour South	27/07/2024	3	2533784	Beach Haven RD	n/a	3rd party damage	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line to remove debris caused by digger
					15:01													
Upper Harbour South	28/10/2024	3	2533784	Beach Haven RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed gravel
					16:21													
Upper Harbour South	19/08/2024	3	2540827	Lancaster RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Backflush from DS MH
					13:59													
Upper Harbour South	21/08/2024	3	2428670	Seaview RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rod line, Flushed line, arranged CSE
					11:03													
Upper Harbour South	22/08/2024	3	2425830	Glenfield RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flushing, root cutting
					8:28													
Upper Harbour South	22/08/2024	3	2431671	Glenfield RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					9:48													
Upper Harbour South	31/10/2024	3	2418703	Titiwai PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:49													
Upper Harbour South	10/02/2025	3	2418703	Titiwai PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:15													
Upper Harbour South	21/04/2025	3	1411212	Titiwai PL	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Backflushed .
					15:51													
Upper Harbour South	27/08/2024	3	2428048	Glenfield RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:52													
Upper Harbour South	28/08/2024	3	2438006	Island Bay RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:51													

Upper Harbour South	5/09/2024	3	2549871	Jacaranda AVE	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	unblocked line
					16:12													
Upper Harbour South	7/09/2024	3	2533359	Paramu AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtails
					17:25													
Upper Harbour South	10/09/2024	3	1496408	Anne McLean DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					9:06													
Upper Harbour South	12/09/2024	3	2440004	Kia Ora RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					21:14													
Upper Harbour South	5/03/2025	3	2546499	Island Bay RD	n/a	Broken pipe	Yes	Reserve/park	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	No info.	flushed line, pipe repaired
					15:14													
Upper Harbour South	8/02/2025	3	2542292	Eskdale RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger
					14:50													
Upper Harbour South	14/02/2025	3	2542293	Eskdale RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCT, dig up and repair requested
					13:22													
Upper Harbour South	19/09/2024	3	2421095	Garner PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to remove roots
					13:37													
Upper Harbour South	26/09/2024	3	2421095	Peach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dissinfection
					12:11													
Upper Harbour South	28/09/2024	3	2434791	Onetaunga RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:45													
Upper Harbour South	30/09/2024	3	1531603	John Court ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					6:47													
Upper Harbour South	4/10/2024	3	2535871	Paramu AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:36													
Upper Harbour South	5/10/2024	3	2530064	Mokoia RD	n/a	Foreign Object	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV, removed debris
					12:04													
Upper Harbour South	6/10/2024	3	2539801	Paramu AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:32													
Upper Harbour South	11/10/2024	3	2438224	Stott AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:47													
Upper Harbour South	16/10/2024	3	2533189	Sunnyfield CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, repair exposed pipe
					14:01													

Upper Harbour South	17/10/2024	3	2440848	Rosecamp RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	replaced broken pipe
					17:49													
Upper Harbour South	29/10/2024	3	2525309	Caram PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:48													
Upper Harbour South	5/11/2024	3	2429780	Miraka PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rod, flushed line
					13:09													
Upper Harbour South	10/11/2024	3	2541700	Salisbury RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, pigtail, CSE
					10:38													
Upper Harbour South	14/11/2024	3	2424674	Manuka RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					18:16													
Upper Harbour South	31/12/2024	3	2525423	Manuka RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:35													
Upper Harbour South	11/02/2025	3	2525423	Manuka RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush recommended
					7:46													
Upper Harbour South	8/09/2024	3	2421295	James ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:30													
Upper Harbour South	17/11/2024	3	2425464	Miraka PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					9:40													
Upper Harbour South	18/09/2024	3	2421295	James ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					22:12													
Upper Harbour South	18/09/2024	3	2421295	James ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:07													
Upper Harbour South	18/11/2024	3	2536971	Rangatira RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, root cut
					13:52													
Upper Harbour South	24/09/2024	3	2438006	Island Bay RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:29													
Upper Harbour South	18/11/2024	3	2432378	Island Bay RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV requested
					12:00													
Upper Harbour South	4/12/2024	3	2432378	Island Bay RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:27													
Upper Harbour South	26/10/2024	3	2439192	Beach Haven RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:46													
Upper Harbour South	18/11/2024	3	2439192	Beach Haven RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:12													

Upper Harbour South	23/11/2024	3	2528726	Peach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:12											uncontrolled		
Upper Harbour South	24/11/2024	3	2439192	Beach Haven RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:40											uncontrolled		
Upper Harbour South	24/11/2024	3	2540935	Hellyers ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:04											uncontrolled		
Upper Harbour South	26/11/2024	3	2439208	Beach Haven RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:56											uncontrolled		
Upper Harbour South	29/11/2024	3	2428758	Glendhu RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:25											uncontrolled		
Upper Harbour South	3/12/2024	3	81154657	Gladys AVE	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					5:12											uncontrolled		
Upper Harbour South	7/12/2024	3	2542031	Onetaunga RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:28											uncontrolled		
Upper Harbour South	8/12/2024	3	2531969	Spinella DR	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cse to remove concrete & debris
					18:20											uncontrolled		
Upper Harbour South	8/12/2024	3	2435123	Valley View RD	n/a	Broken pipe	No	On property	L3	Local	Stream	no	yes	no	no	n/a	No info.	ccctv, bypass pump setup and replaced bung valve.
					13:30											uncontrolled		
Upper Harbour South	13/12/2024	3	2432416	Salisbury RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunger
					10:48											uncontrolled		
Upper Harbour South	14/12/2024	3	2542126	Kia Ora RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Fixed broken pipe.
					7:16											uncontrolled		
Upper Harbour South	15/12/2024	3	2437095	Hadfield ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:50											uncontrolled		
Upper Harbour South	19/12/2024	3	2540935	Hellyers ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					6:43											uncontrolled		
Upper Harbour South	21/12/2024	3	2425737	Powrie ST	n/a	Fat	No	Road/footpath	L3	Local	SW network	yes	no	yes	n/a	3ppm, 1ppm, 0.5ppm	flushed line, CSE	
					19:40											uncontrolled		
Upper Harbour South	23/12/2024	3	2540802	Glendhu RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	raised WO for rehaunching
					8:20											uncontrolled		

Upper Harbour South	30/01/2025	3	2545365	Rosecamp RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.25ppm	flushed line
					12:14													
Upper Harbour South	5/01/2025	3	2528799	Lauderdale RD	n/a	Unknown	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	1ppm	flushed line
					19:27													
Upper Harbour South	5/01/2025	3	2428100	Mahara AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:49													
Upper Harbour South	6/01/2025	3	2436638	Brigantine DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:55													
Upper Harbour South	6/01/2025	3	81010922	Lauderdale RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:07													
Upper Harbour South	6/01/2025	3	2535349	Contessa DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:03													
Upper Harbour South	9/01/2025	3	2435125	Brunton PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:22													
Upper Harbour South	10/01/2025	3	2439021	Brigantine DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:58													
Upper Harbour South	10/01/2025	3	2519657	Castleton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:04													
Upper Harbour South	19/01/2025	3	2428554	Neptune AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:28													
Upper Harbour South	20/01/2025	3	2530612	Verbena RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					22:10													
Upper Harbour South	22/01/2025	3	2431884	Randal PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, escalated
					15:45													
Upper Harbour South	30/01/2025	3	2419428	Hague PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					9:48													
Upper Harbour South	31/01/2025	3	2533502	Willow AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:19													
Upper Harbour South	4/02/2025	3	2529104	Vandeleur AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE
					8:36													
Upper Harbour South	5/02/2025	3	2430060	Emirau PL	n/a	Broken pipe	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV, repair needed
					11:43													
Upper Harbour South	5/05/2025	3	2427136	Mahara AVE	n/a	Unknown	Yes	Inside property	L2	Local	Land only	yes	no	no	no	n/a uncontrolled	0	Flshed line.
					17:47													

Upper Harbour South	7/02/2025	3	2439259	Rangatira RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:58											n/a uncontrolled		
Upper Harbour South	17/02/2025	3	2433568	Flaxdale ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:54											n/a uncontrolled		
Upper Harbour South	19/02/2025	3	2433486	Balmain RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:55											n/a uncontrolled		
Upper Harbour South	26/02/2025	3	2425886	Spinella DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:40											n/a uncontrolled		
Upper Harbour South	5/03/2025	3	2559296	Rangatira RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:41											n/a uncontrolled		
Upper Harbour South	7/03/2025	3	2535479	Brigantine DR	n/a	Unknown	No	Retail/commercial/public	L2	Local	Small waterway	yes	yes	no	no	n/a	No info.	flushed line
					19:57											n/a uncontrolled		
Upper Harbour South	8/03/2025	3	2522094	Merrill PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CSE, flushed line, CCTV
					7:41											n/a uncontrolled		
Upper Harbour South	9/03/2025	3	2426571	Hiwihau PL	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a	0.25ppm	dig up and repair
					8:59											n/a uncontrolled		
Upper Harbour South	16/03/2025	3	2432771	Cresta AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	plunger
					16:38											n/a uncontrolled		
Upper Harbour South	22/03/2025	3	81154503	Lancaster RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:00											n/a uncontrolled		
Upper Harbour South	24/03/2025	3	2535000	Anne Mclean DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rods, CSE required
					16:54											n/a uncontrolled		
Upper Harbour South	10/08/2024	3	2433648	Vandeleur AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line multiple times
					17:30											n/a uncontrolled		
Upper Harbour South	26/08/2024	3	2433648	Vandeleur AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CSE
					17:44											n/a uncontrolled		
Upper Harbour South	1/04/2025	3	2439554	Fordham ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					13:22											n/a uncontrolled		
Upper Harbour South	8/04/2025	3	2426423	Birkenhead AVE	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CSE
					8:40											n/a uncontrolled		
Upper Harbour South	9/04/2025	3	1528575	Anchor PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:45											n/a uncontrolled		

Upper Harbour South	10/04/2025	3	2439365	Stott AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush and CCTV requested
					17:02													
Upper Harbour South	29/06/2025	3	2540667	Melba ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. There is escalation to repair already.
					12:17													
Upper Harbour South	21/04/2025	3	2436381	Fordham ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared blockge using warthog. Clean up and disso
					20:40													
Upper Harbour South	21/04/2025	3	2535334	Easton Park PDE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					18:58													
Upper Harbour South	22/04/2025	3	2433464	Park Hill RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, and lime powder used on splliage
					16:09													
Upper Harbour South	8/05/2025	3	1529742	Island Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					10:23													
Upper Harbour South	11/05/2025	3	2528653	Abbeygate ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					7:58													
Upper Harbour South	23/09/2024	3	2422699	Sunnyhaven AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:05													
Upper Harbour South	13/05/2025	3	2433156	Verbena RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					19:38													
Upper Harbour South	12/05/2025	3	2422699	Sunnyhaven AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					10:41													
Upper Harbour South	23/10/2024	3	2540021	Park RD	n/a	Unknown	Yes	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrolled	3	cctv, further investigation - job repeated later
					11:44													
Upper Harbour South	16/05/2025	3	2420816	Paris PL	n/a	Roots	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:26													

Upper Harbour South	18/05/2025	3	2423696	Manuka RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots using warthog and pigtail plunger. Cleaned up and disso.
					18:00													
Upper Harbour South	21/05/2025	3	2531775	Hadfield ST	n/a	Unknown	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed to unblock. Wash down.
					13:15													
Upper Harbour South	25/05/2025	3	2438870	Radiata LN	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, wash down.
					10:01													
Upper Harbour South	1/06/2025	3	2426909	Manuka RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked rags blockage, CSE for root removal, wash down and disso.
					11:28													
Upper Harbour South	16/12/2024	3	2426555	Eskdale RD	n/a	Broken pipe	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	Oppm	reposition bypass, bung installation
					11:12													
Upper Harbour South	6/01/2025	3	82729739	Eskdale RD	n/a	Unknown	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	flushed line
					8:19													
Upper Harbour South	12/06/2025	3	2535378	Glen Vista PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock. Wash down and disso. Escalated for CCTV.
					9:16													
Upper Harbour South	14/06/2025	3	2536308	Mcglashen PL	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					10:43													
Upper Harbour South	14/12/2024	3	2441165	Kia Ora RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:16													

Upper Harbour South	14/12/2024	3	2441165	Kia Ora RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, recommended investigation of another line
					9:46													
Upper Harbour South	22/06/2025	3	2427429	Laser PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:19													
Upper Harbour South	22/06/2025	3	2537860	Manuka RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse to remove roots
					8:46													
Upper Harbour South	24/06/2025	3	2533787	Mirage PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Backflushed to unblock, washdown and disso.
					17:20													
Upper Harbour South	26/06/2025	3	2541566	Seaview RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed PVC blocking the outlet.
					18:25													
Upper Harbour South	9/03/2025	3	2438724	Fairclough RD	n/a	Roots	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	dig up and repair or root cut needed
					9:20													
Upper Harbour South	21/05/2025	3	2440402	Fairclough RD	n/a	Roots	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	1	Removal roots.
					13:50													
Upper Harbour South	30/06/2025	3	1535340	Ranch AVE	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Removed roots, washdown and disso.
					10:30													
Upper Harbour South	30/06/2025	3	1324355	Seaview RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:15													
Upper Harbour South	6/04/2025	3	N/A	Gladys Avenue, Glenfield	20	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					19:20													
Upper Harbour South	11/04/2025	3	N/A	Gladys Avenue, Glenfield	80	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					7:30													
Upper Harbour South	14/06/2025	3	N/A	Gladys Avenue, Glenfield	50	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					23:45													
Upper Harbour South	5/03/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	2760	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					12:25													

Upper Harbour South	14/06/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	40	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					23:50													
Upper Harbour West	1/07/2024	3	2514394	Lagoon WAY	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:02													
Upper Harbour West	22/08/2024	3	81013045	Gecko RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked from IP
					9:11													
Upper Harbour West	24/03/2025	3	81013045	Gecko RD	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pipe repair
					19:07													
Upper Harbour West	7/08/2024	3	2569970	Te Rito RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:30													
Upper Harbour West	6/07/2024	3	2418096	Hendrika CT	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots
					11:27													
Upper Harbour West	19/07/2024	3	2419661	Hendrika CT	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line from MH
					9:18													
Upper Harbour West	6/09/2024	3	2403980	Marina View DR	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:43													
Upper Harbour West	19/09/2024	3	2516149	Garcia PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					7:25													
Upper Harbour West	8/10/2024	3	1397926	Cherub PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:52													
Upper Harbour West	14/01/2025	3	2509143	Marina View DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:54													
Upper Harbour West	15/01/2025	3	82669123	Marina View DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					7:39													
Upper Harbour West	21/10/2024	3	2413214	Hobsonville RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					14:09													
Upper Harbour West	22/09/2024	3	2409876	Wiseley RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:19													
Upper Harbour West	4/05/2025	3	2409876	Wiseley RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					11:36													
Upper Harbour West	18/11/2024	3	2615165	Rotu DR	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					14:41													
Upper Harbour West	23/11/2024	3	2403732	Hobsonville RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no notes
					16:30													

Upper Harbour West	2/12/2024	3	82561434	Te Rito RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:18													
Upper Harbour West	2/12/2024	3	81157195	Westergrove PL	n/a	Roots	No	Inside property	L2	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	root removal, flushed line
					12:21													
Upper Harbour West	22/10/2024	3	2517105	Hogarth RISE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					12:51													
Upper Harbour West	22/05/2025	3	2517105	Hogarth RISE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					8:17													
Upper Harbour West	19/12/2024	3	2421609	Clearwater CV	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:29													
Upper Harbour West	4/02/2025	3	81189504	Brolly LN	n/a	WW Cross Connection	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	OF into SW line due to WW cross connection.
					11:24													
Upper Harbour West	10/02/2025	3	2559516	Houhora ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:47													
Upper Harbour West	20/02/2025	3	2559196	Tamiro RD	n/a	Silts	No	Retail/commercial/public	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					20:29													
Upper Harbour West	23/02/2025	3	2455776	Clark RD	n/a	Fat	No	Road/footpath	L3	Local	SW network	yes	no	yes		n/a uncontrolled	6	flushed line
					17:54													
Upper Harbour West	27/02/2025	3	81006627	Cherub PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:27													
Upper Harbour West	1/03/2025	3	81015618	Hobsonville Point RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:46													
Upper Harbour West	3/03/2025	3	2411656	The Terrace	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:17													
Upper Harbour West	5/03/2025	3	81147432	Harewood ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:29													
Upper Harbour West	10/03/2025	3	2412001	Rosetti RISE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:08													
Upper Harbour West	12/03/2025	3	2512763	Worthington PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:49													
Upper Harbour West	11/04/2025	3	1356304	Lupetti RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:26													

Upper Harbour West	20/04/2025	3	2614079	Whenuapai DR	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed concrete and rags
					15:10													
Upper Harbour West	17/02/2025	3	81006037	Cherub PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					9:30													
Upper Harbour West	3/05/2025	3	1400465	Marina View DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:56													
Upper Harbour West	1/06/2025	3	2412594	Duncan RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to root cut and removal.
					8:54													
Upper Harbour West	14/06/2025	3	2404339	Whiting GRV	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso. CCTVd.
					17:23													
Upper Harbour West	16/06/2025	3	2566082	Nugget AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned and disso. Escalated for CSE repairs, post flush and CCTV.
					15:39													
Upper Harbour West	19/10/2024	3	2403981	Sailfish DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:07													
Upper Harbour West	31/05/2025	3	2403981	Sailfish DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE roots removal.
					14:30													
Upper Harbour West	11/10/2024	3	1399831	Hobsonville RD	n/a	Rags	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					19:45													
Upper Harbour West	13/11/2024	3	82655550	Hobsonville RD	n/a	Broken pipe	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:27													
Upper Harbour West	28/02/2025	3	82655550	Hobsonville RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:16													
Upper Harbour West	28/03/2025	3	82655550	Hobsonville RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:02													
Upper Tamaki River	12/05/2025	3	2575286	Konini AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Celan up and disso.
					17:27													
Upper Tamaki River	1/07/2024	3	2475629	Swaffield RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					22:26													
Upper Tamaki River	8/06/2025	3	2461660	Konini AVE	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:04													

Upper Tamaki River	2/07/2024	3	2590424	Kelvin Hart DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					16:31													
Upper Tamaki River	3/07/2024	3	2587477	Coronation RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots
					9:45													
Upper Tamaki River	4/07/2024	3	2499332	Ellerslie-Panmure HWY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					21:46													
Upper Tamaki River	4/07/2024	3	2577708	Clayton AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:16													
Upper Tamaki River	4/07/2024	3	2472694	St George ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:35													
Upper Tamaki River	5/07/2024	3	2615406	Pacific RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for root removal
					10:27													
Upper Tamaki River	6/07/2024	3	2574694	Colum PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					10:33													
Upper Tamaki River	6/07/2024	3	2460505	Colum PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:17													
Upper Tamaki River	6/07/2024	3	2405776	Eaglehurst RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:20													
Upper Tamaki River	6/07/2024	3	2571564	Great South RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:07													
Upper Tamaki River	7/07/2024	3	2466591	Osprey ST	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	rags and wood cleared from pump chambers/dropper
					12:16													
Upper Tamaki River	7/07/2024	3	2576184	Oakland AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:42													
Upper Tamaki River	8/07/2024	3	2605315	Alcock ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:19													
Upper Tamaki River	27/07/2024	3	2569157	Sandra AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:29													
Upper Tamaki River	11/07/2024	3	2499173	Eaglehurst RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:15													

Upper Tamaki River	11/07/2024	3	2473880	Dissmeyer DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush
					11:00													
Upper Tamaki River	31/07/2024	3	2569157	Sandra AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:40													
Upper Tamaki River	3/08/2024	3	2569157	Sandra AVE	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:53													
Upper Tamaki River	11/07/2024	3	81003473	Harris RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Repaired pipe
					9:14													
Upper Tamaki River	11/07/2024	3	2399168	Ellerslie-Panmure HWY	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					11:07													
Upper Tamaki River	11/07/2024	3	2494099	Hutton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					10:53													
Upper Tamaki River	15/07/2024	3	82806659	Ormiston RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed rocks & timber, flushed line, sucker truck
					11:18													
Upper Tamaki River	18/07/2024	3	2462822	Maxwell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:09													
Upper Tamaki River	22/07/2024	3	2462822	Maxwell AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line + Heavy flush
					9:40													
Upper Tamaki River	15/07/2024	3	2592233	Cornwall RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:04													
Upper Tamaki River	15/07/2024	3	2566817	Hedge ROW	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked line
					8:25													
Upper Tamaki River	16/07/2024	3	2462015	Meadowland DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV. Removed roots
					16:46													
Upper Tamaki River	16/07/2024	3	2494102	Avenue RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, dig up and repair, root removal
					16:15													
Upper Tamaki River	17/07/2024	3	2586611	Aviara CT	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:26													

Upper Tamaki River	17/07/2024	3	2463643	Cambourne RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					14:19														
Upper Tamaki River	18/07/2024	3	2583832	Omana RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					9:41														
Upper Tamaki River	21/07/2024	3	2473933	Armoy DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, removed roots
					20:15														
Upper Tamaki River	21/07/2024	3	2583515	Dawson RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	Flushed line
					10:13														
Upper Tamaki River	12/06/2025	3	2577929	Latham AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed, clean up and disso.
					10:53														
Upper Tamaki River	24/06/2025	3	1339293	Latham AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line.
					7:49														
Upper Tamaki River	24/07/2024	3	81145269	Flat Bush School RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					18:35														
Upper Tamaki River	27/07/2024	3	2585306	Bowmore CL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					8:51														
Upper Tamaki River	27/07/2024	3	2465594	Edward AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					17:25														
Upper Tamaki River	27/07/2024	3	2472236	Kautami AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, CCTV
					16:35														
Upper Tamaki River	28/07/2024	3	2569157	Sandra AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Sucker truck
					15:07														
Upper Tamaki River	26/07/2024	3	2460471	Camerton CL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line.
					21:27														
Upper Tamaki River	28/07/2024	3	2460471	Camerton CL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					11:48														
Upper Tamaki River	4/08/2024	3	2460471	Camerton CL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, CCTV, removed roots
					20:22														
Upper Tamaki River	23/07/2024	3	81002273	Keate PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					16:49														
Upper Tamaki River	12/10/2024	3	81002273	Keate PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	replace coupling
					16:36														
Upper Tamaki River	1/08/2024	3	2570909	Gilbert RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					23:22														

Upper Tamaki River	3/08/2024	3	2456400	Bowscale PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:57													
Upper Tamaki River	4/08/2024	3	2456124	Darren CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line. Sucker truck
					11:57													
Upper Tamaki River	5/08/2024	3	2475348	Derrimore HTS	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:10													
Upper Tamaki River	5/08/2024	3	81011693	Panama RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, sucker truck
					12:03													
Upper Tamaki River	7/08/2024	3	2570404	Eden ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					17:10													
Upper Tamaki River	8/08/2024	3	2499753	Mount Wellington HWY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, sucker truck
					8:58													
Upper Tamaki River	9/08/2024	3	2590424	Kelvin Hart DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, CSE
					15:58													
Upper Tamaki River	10/08/2024	3	2563115	Willoughby AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:26													
Upper Tamaki River	10/08/2024	3	2399321	Gavin ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for CCTV
					21:26													
Upper Tamaki River	12/08/2024	3	2466915	Rosella RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					17:15													
Upper Tamaki River	2/07/2024	3	2586812	Cryers RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					20:01													
Upper Tamaki River	12/08/2024	3	2470458	Ivon RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:58													
Upper Tamaki River	30/01/2025	3	2575999	Cryers RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:21													
Upper Tamaki River	5/02/2025	3	2575999	Cryers RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					13:07													
Upper Tamaki River	13/08/2024	3	2572584	Edward AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:58													
Upper Tamaki River	13/08/2024	3	2585854	Pakuranga RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line many times
					20:30													

Upper Tamaki River	15/08/2024	3	2573798	Guys RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					10:13													
Upper Tamaki River	18/12/2024	3	2586270	Vincent ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:01													
Upper Tamaki River	19/08/2024	3	2469525	Flat Bush RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:31													
Upper Tamaki River	19/08/2024	3	82861259	Reeves RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, pulled roots
					11:52													
Upper Tamaki River	20/08/2024	3	2469464	Preston RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, escalated for root removal
					16:53													
Upper Tamaki River	20/08/2024	3	2568551	Great South RD	n/a	Unknown	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:52													
Upper Tamaki River	26/08/2024	3	2474071	Laidlaw WAY	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed timber
					12:27													
Upper Tamaki River	26/08/2024	3	82268582	Hermitage ST	n/a	Unknown	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:09													
Upper Tamaki River	27/08/2024	3	82568467	Nicholson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:59													
Upper Tamaki River	28/08/2024	3	81159297	Carbine RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:16													
Upper Tamaki River	31/08/2024	3	2578202	Britannia PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, flushed line
					9:28													
Upper Tamaki River	31/08/2024	3	2465609	Great South RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:04													
Upper Tamaki River	2/09/2024	3	2459368	Pegler DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:08													
Upper Tamaki River	3/09/2024	3	2463941	Earlsworth RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:13													
Upper Tamaki River	19/09/2024	3	2580868	Kudu RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:29													
Upper Tamaki River	3/01/2025	3	2580868	Kudu RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:35													

Upper Tamaki River	24/04/2025	3	1342968	Kudu RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked.
					15:43											n/a uncontrolled		
Upper Tamaki River	5/09/2024	3	1334811	Chapel RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					8:21											n/a uncontrolled		
Upper Tamaki River	5/09/2024	3	2471154	Portage RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:11											n/a uncontrolled		
Upper Tamaki River	6/09/2024	3	2580952	Graeme AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up
					19:45											n/a uncontrolled		
Upper Tamaki River	6/09/2024	3	2464910	Graeme AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:34											n/a uncontrolled		
Upper Tamaki River	6/09/2024	3	2464545	Graeme AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:11											n/a uncontrolled		
Upper Tamaki River	6/09/2024	3	2463975	East Tamaki RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:28											n/a uncontrolled		
Upper Tamaki River	9/09/2024	3	2609013	Frank Grey PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:29											n/a uncontrolled		
Upper Tamaki River	9/09/2024	3	2463476	Great South RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush, cctv & cse required
					14:19											n/a uncontrolled		
Upper Tamaki River	10/09/2024	3	2604896	Hauti RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:41											n/a uncontrolled		
Upper Tamaki River	11/09/2024	3	2468700	Robert Allan WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for dig up and repair
					13:35											n/a uncontrolled		
Upper Tamaki River	11/09/2024	3	2576196	Milton RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:47											n/a uncontrolled		
Upper Tamaki River	12/09/2024	3	2459563	Cantora AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:35											n/a uncontrolled		
Upper Tamaki River	12/09/2024	3	2578860	Ti Rakau DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:14											n/a uncontrolled		
Upper Tamaki River	14/09/2024	3	1376172	Armoy DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:43											n/a uncontrolled		
Upper Tamaki River	16/09/2024	3	2588023	Wymondley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:59											n/a uncontrolled		

Upper Tamaki River	28/08/2024	3	2495768	Convoy LN	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					15:28											n/a uncontrolled		
Upper Tamaki River	5/05/2025	3	2495768	Convoy LN	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Clean up and disso req.
					20:31											n/a uncontrolled		
Upper Tamaki River	18/09/2024	3	2572764	Reeves RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:17											n/a uncontrolled		
Upper Tamaki River	21/09/2024	3	2497058	Trenwith ST	n/a	Fat	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	fats & roots removed
					20:02											n/a uncontrolled		
Upper Tamaki River	4/10/2024	3	2497058	Trenwith ST	n/a	Broken pipe	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.25	flushed line
					20:50											n/a uncontrolled		
Upper Tamaki River	13/10/2024	3	2497058	Trenwith ST	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repair crack in pipe
					14:10											n/a uncontrolled		
Upper Tamaki River	14/10/2024	3	2497058	Trenwith ST	n/a	Broken pipe	Yes	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	1	urgent repair on broken pipe
					13:38											n/a uncontrolled		
Upper Tamaki River	22/09/2024	3	2486109	Triumph RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:17											n/a uncontrolled		
Upper Tamaki River	22/09/2024	3	2481591	Kestev DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	root removal
					9:31											n/a uncontrolled		
Upper Tamaki River	23/09/2024	3	2564389	Earlsworth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:38											n/a uncontrolled		
Upper Tamaki River	23/09/2024	3	2583296	Great South RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed concrete from line
					16:28											n/a uncontrolled		
Upper Tamaki River	2/07/2024	3	2581653	Edgewater DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:13											n/a uncontrolled		
Upper Tamaki River	25/09/2024	3	2615217	Mataroa RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repair broken MH lid
					6:32											n/a uncontrolled		
Upper Tamaki River	5/07/2024	3	2581653	Edgewater DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:01											n/a uncontrolled		
Upper Tamaki River	9/07/2024	3	2581653	Edgewater DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:19											n/a uncontrolled		
Upper Tamaki River	26/09/2024	3	2464374	Cook ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv
					10:46											n/a uncontrolled		
Upper Tamaki River	26/09/2024	3	2606038	Avenue RD	n/a	Rubbish	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:00											n/a uncontrolled		

Upper Tamaki River	27/09/2024	3	2507593	Frank Grey PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line to clear fat & rags
					8:29													
Upper Tamaki River	28/09/2024	3	2588023	Wymondley RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleared blockage
					15:59													
Upper Tamaki River	15/08/2024	3	2462608	Julian PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:35													
Upper Tamaki River	22/08/2024	3	2462608	Julian PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:40													
Upper Tamaki River	14/03/2025	3	2465641	Julian PL	n/a	Foreign Object	Yes	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rods
					20:55													
Upper Tamaki River	14/02/2025	3	2577958	Lorien PL	n/a	Broken pipe	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pipe repair
					14:35													
Upper Tamaki River	11/03/2025	3	2577937	Lorien PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:44													
Upper Tamaki River	9/10/2024	3	2466410	Luton AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked with plunger
					12:31													
Upper Tamaki River	10/10/2024	3	2573094	Hain AVE	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, further investigation requested
					9:03													
Upper Tamaki River	11/10/2024	3	2593350	Chapel RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, root removal
					21:18													
Upper Tamaki River	25/02/2025	3	2558580	Moore ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					12:44													
Upper Tamaki River	27/02/2025	3	2563105	Moore ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed, flushed line
					18:04													
Upper Tamaki River	13/10/2024	3	2581335	Mordane PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					22:19													
Upper Tamaki River	15/08/2024	3	2591918	Great North RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:40													
Upper Tamaki River	15/10/2024	3	2579420	Greenmount DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lines.
					14:17													
Upper Tamaki River	14/09/2024	3	2568609	Franich ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:22													

Upper Tamaki River	16/10/2024	3	2611320	Mount Wellington HWY	n/a	fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleared blockage of fat & rags
					17:08													
Upper Tamaki River	22/09/2024	3	2468939	Franich ST	n/a	Broken pipe	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:52													
Upper Tamaki River	24/09/2024	3	2464502	Franich ST	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, flush to remove piece of wood
					9:46													
Upper Tamaki River	19/10/2024	3	2467198	Billabong PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:09													
Upper Tamaki River	19/10/2024	3	2577658	Stonex RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:11													
Upper Tamaki River	19/10/2024	3	1453698	Ross AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:31													
Upper Tamaki River	21/10/2024	3	2399447	Lavas PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair mh benching
					17:08													
Upper Tamaki River	27/08/2024	3	2462566	Bairds RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					10:31													
Upper Tamaki River	23/10/2024	3	2594061	McLean AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked the line.
					12:18													
Upper Tamaki River	25/10/2024	3	2605315	Alcock ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					9:24													
Upper Tamaki River	17/07/2024	3	2498389	Princes ST-E	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:33													
Upper Tamaki River	18/07/2024	3	82681800	Princes ST-E	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					12:25													
Upper Tamaki River	28/10/2024	3	2485153	Meadowland DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:37													
Upper Tamaki River	29/10/2024	3	2570136	Ennis AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					19:59													
Upper Tamaki River	10/03/2025	3	2574849	Ti Rakau DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:04													
Upper Tamaki River	13/03/2025	3	2574263	Ti Rakau DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:05													
Upper Tamaki River	31/10/2024	3	2574324	Gray AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up & repair
					14:02													

Upper Tamaki River	9/02/2025	3	2460836	Driscoll PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:23													
Upper Tamaki River	24/06/2025	3	2460836	Driscoll PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:51													
Upper Tamaki River	6/03/2025	3	2564402	Kentville PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, repair may be required
					14:34													
Upper Tamaki River	8/03/2025	3	2564402	Kentville PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, pipe repair
					8:51													
Upper Tamaki River	6/11/2024	3	2461291	Rosina PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flush line, CCTV
					10:58													
Upper Tamaki River	9/11/2024	3	2459559	Timmer RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:31													
Upper Tamaki River	9/11/2024	3	2499732	Hutton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:12													
Upper Tamaki River	11/11/2024	3	2499034	Panama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:45													
Upper Tamaki River	27/07/2024	3	2464331	Ben Nevis PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, escalate for CCTV
					12:39													
Upper Tamaki River	29/07/2024	3	2464331	Ben Nevis PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, removed roots
					8:42													
Upper Tamaki River	13/11/2024	3	2476128	Coachman DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:06													
Upper Tamaki River	13/11/2024	3	2459086	Hutchinsons RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dip in line flushed
					17:57													
Upper Tamaki River	13/08/2024	3	2470347	Capstick RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times, CCTV
					10:16													
Upper Tamaki River	13/11/2024	3	2497951	Fairburn RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair haunching
					15:43													
Upper Tamaki River	13/11/2024	3	2573689	Archmillen AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:34													
Upper Tamaki River	14/03/2025	3	2470347	Capstick RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:48													

Upper Tamaki River	7/05/2025	3	2462866	Capstick RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked and disso.
					11:39													
Upper Tamaki River	15/11/2024	3	2475626	Hope Farm AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line
					11:05													
Upper Tamaki River	16/11/2024	3	2586353	Chard PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					19:07													
Upper Tamaki River	17/11/2024	3	2469117	Studfall ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:37													
Upper Tamaki River	10/10/2024	3	2468559	Hain AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:26													
Upper Tamaki River	26/12/2024	3	2582006	Hain AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:40													
Upper Tamaki River	29/12/2024	3	2470664	Hain AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, further flushing and cctv requested
					8:49													
Upper Tamaki River	20/11/2024	3	2469060	Huia RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush, remove broken pipe
					16:48													
Upper Tamaki River	21/11/2024	3	82780662	Aranui RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:07													
Upper Tamaki River	22/11/2024	3	2581663	Nola CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					12:25													
Upper Tamaki River	25/11/2024	3	82812208	Bugle RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:45													
Upper Tamaki River	26/11/2024	3	2499978	Water ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	There is drip tested positive for waste water.
					10:40													
Upper Tamaki River	1/12/2024	3	2565533	Dunrobin PL	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					21:34													
Upper Tamaki River	2/12/2024	3	2499284	Jolson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:39													
Upper Tamaki River	5/12/2024	3	2571911	Penruddocke RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					11:23													

Upper Tamaki River	24/10/2024	3	2586320	Diorella DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	unblocked line
					15:38													
Upper Tamaki River	7/12/2024	3	1494936	Troon PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					17:28													
Upper Tamaki River	19/03/2025	3	2472828	Diorella DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods, pig tails
					16:30													
Upper Tamaki River	9/12/2024	3	2458721	Windsong CT	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line + heavy flush
					8:35													
Upper Tamaki River	9/12/2024	3	2567715	Dana PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:50													
Upper Tamaki River	9/12/2024	3	2580513	Rosca LN	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv, rootcut
					15:03													
Upper Tamaki River	23/01/2025	3	2572097	Lovegrove CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:22													
Upper Tamaki River	31/01/2025	3	2572097	Lovegrove CRES	n/a	Fat	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:29													
Upper Tamaki River	11/12/2024	3	2464314	Hills RD	n/a	Rags	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	No info.	flushed line.
					11:59													
Upper Tamaki River	14/12/2024	3	2606310	Melody LN	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:21													
Upper Tamaki River	14/12/2024	3	2469768	Lovegrove CRES	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					18:43													
Upper Tamaki River	14/12/2024	3	2480699	Lochinver RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:22													
Upper Tamaki River	15/12/2024	3	2472499	Coates RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repaired by contractors, root cut needed
					13:13													
Upper Tamaki River	17/12/2024	3	2578451	La Perouse ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:35													
Upper Tamaki River	18/12/2024	3	2488147	Casuarina RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					10:24													
Upper Tamaki River	3/12/2024	3	2465735	Pearl Baker DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:16													

Upper Tamaki River	18/02/2025	3	2464004	Pearl Baker DR	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:29											n/a	uncontrolled	
Upper Tamaki River	20/12/2024	3	2468411	Frank Bunce GRV	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:53											n/a	uncontrolled	
Upper Tamaki River	20/12/2024	3	2615178	Avenue RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:38											n/a	uncontrolled	
Upper Tamaki River	21/12/2024	3	2506523	Ellerslie-Panmure HWY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:51											n/a	uncontrolled	
Upper Tamaki River	21/12/2024	3	2610761	Ellerslie-Panmure HWY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	wash down
					13:51											n/a	uncontrolled	
Upper Tamaki River	22/12/2024	3	2456669	Kurnell DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods to remove roots
					9:27											n/a	uncontrolled	
Upper Tamaki River	3/04/2025	3	2463220	Eric Baker PL	n/a	Fat	Yes	Inside property	L2	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, heavy flush, CCTV
					10:52											n/a	uncontrolled	
Upper Tamaki River	23/12/2024	3	2584990	Armoy DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods to remove roots, flushed line
					10:05											n/a	uncontrolled	
Upper Tamaki River	23/12/2024	3	2577429	Wedgwood AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:28											n/a	uncontrolled	
Upper Tamaki River	24/12/2024	3	2587566	Beryl PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					3:38											n/a	uncontrolled	
Upper Tamaki River	27/08/2024	3	2571822	Imatra PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					18:41											n/a	uncontrolled	
Upper Tamaki River	25/12/2024	3	2456669	Kurnell DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:26											n/a	uncontrolled	
Upper Tamaki River	18/11/2024	3	2571822	Imatra PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rootcut
					11:03											n/a	uncontrolled	
Upper Tamaki River	26/12/2024	3	2611136	Lynton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:47											n/a	uncontrolled	
Upper Tamaki River	26/12/2024	3	2400692	Luke ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					22:18											n/a	uncontrolled	
Upper Tamaki River	29/12/2024	3	2473298	Raleigh PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rehaunching
					7:33											n/a	uncontrolled	

Upper Tamaki River	2/01/2025	3	2461402	Meadowland DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root cut
					13:01													
Upper Tamaki River	3/01/2025	3	2476925	Earnslaw CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:28													
Upper Tamaki River	3/01/2025	3	2486656	Ross AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:20													
Upper Tamaki River	4/01/2025	3	82926872	Alexander CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:32													
Upper Tamaki River	5/01/2025	3	2460733	Nevada AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					11:46													
Upper Tamaki River	10/08/2024	3	2618491	Lemon Tree LN	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					17:16													
Upper Tamaki River	12/08/2024	3	2618491	Lemon Tree LN	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, Heavy flush, CCTV
					12:19													
Upper Tamaki River	21/12/2024	3	2400041	Mount Wellington HWY	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, repair broken pipe
					18:53													
Upper Tamaki River	11/05/2025	3	2399435	Mount Wellington HWY	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso. Further work needed.
					17:10													
Upper Tamaki River	3/03/2025	3	2399357	Main HWY	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:38													
Upper Tamaki River	17/06/2025	3	2399357	Main HWY	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Ongoing issue since 6months. Job currently with Emgineers for a scope.
					12:20													
Upper Tamaki River	10/01/2025	3	2571217	Preston RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:54													
Upper Tamaki River	11/01/2025	3	2470839	Woolfield RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					15:16													

Upper Tamaki River	29/11/2024	3	2608994	Deas PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:28											uncontrolled		
Upper Tamaki River	12/01/2025	3	2481170	Opito WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					10:04											uncontrolled		
Upper Tamaki River	12/01/2025	3	2572032	Kilkenny DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods, root removal with hook
					11:45											uncontrolled		
Upper Tamaki River	13/01/2025	3	2570600	Tralee TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, root removal
					11:56											uncontrolled		
Upper Tamaki River	15/01/2025	3	2574213	Voltaire CT	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:15											uncontrolled		
Upper Tamaki River	18/11/2024	3	2460107	Pakuranga RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Blockage cleared.
					14:28											uncontrolled		
Upper Tamaki River	31/12/2024	3	2460107	Pakuranga RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:45											uncontrolled		
Upper Tamaki River	6/05/2025	3	2460107	Pakuranga RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					12:57											uncontrolled		
Upper Tamaki River	23/05/2025	3	2460107	Pakuranga RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked, cleaned up.
					12:08											uncontrolled		
Upper Tamaki River	18/01/2025	3	81000043	High ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:19											uncontrolled		
Upper Tamaki River	22/11/2024	3	2466971	Hallberry RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:29											uncontrolled		
Upper Tamaki River	22/01/2025	3	2485826	Aviemore DR	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					20:01											uncontrolled		
Upper Tamaki River	22/01/2025	3	2571529	Bolina CRES	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, root removal
					21:10											uncontrolled		
Upper Tamaki River	23/01/2025	3	2584431	Velvet CRES	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					13:32											uncontrolled		
Upper Tamaki River	5/12/2024	3	2575540	Tralee TCE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods, flushed line, rake
					20:56											uncontrolled		
Upper Tamaki River	24/01/2025	3	2456128	Cromdale AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:18											uncontrolled		
Upper Tamaki River	17/10/2024	3	2479071	Derrimore HTS	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					13:57											uncontrolled		

Upper Tamaki River	4/11/2024	3	2479071	Derrimore HTS	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					20:33													
Upper Tamaki River	29/01/2025	3	2576518	Cook ST	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line uncontrolled
					7:51													
Upper Tamaki River	29/01/2025	3	2470465	Raleigh PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					7:38													
Upper Tamaki River	28/12/2024	3	2587541	Sidey AVE	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line uncontrolled
					10:39													
Upper Tamaki River	29/12/2024	3	2587541	Sidey AVE	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, root removal
					13:05													
Upper Tamaki River	30/01/2025	3	2460506	Moore ST	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CCT, escalated for further work
					14:56													
Upper Tamaki River	31/01/2025	3	2575282	Arwen PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV, CSE, further work required
					17:56													
Upper Tamaki River	16/10/2024	3	2505277	Mount Wellington HWY	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					7:48													
Upper Tamaki River	24/06/2025	3	2499934	Mount Wellington HWY	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, clean up and disso.
					13:04													
Upper Tamaki River	1/02/2025	3	2465740	Preston RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					14:41													
Upper Tamaki River	2/02/2025	3	2587307	Chapletown DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					14:25													
Upper Tamaki River	3/02/2025	3	2472549	Gilbert RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flush required
					16:17													
Upper Tamaki River	3/02/2025	3	2473096	Seymour AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					7:57													
Upper Tamaki River	4/02/2025	3	2493481	Walters RD	n/a	Broken pipe	No	Retail/commercial/public	L3	Local	Estuary	yes	no	no	no	n/a	6	flushed line, CCTV, HEB
					11:20													
Upper Tamaki River	4/02/2025	3	2575591	Udys RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					18:27													

Upper Tamaki River	5/02/2025	3	2472226	Bairds RD	n/a	Fat	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					15:18											uncontroll ed		
Upper Tamaki River	6/02/2025	3	2457904	Ennis AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rods
					10:32											uncontroll ed		
Upper Tamaki River	6/02/2025	3	2576968	Morris AVE	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:16											uncontroll ed		
Upper Tamaki River	8/02/2025	3	2467899	Bob Charles DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rods and pigtails
					14:41											uncontroll ed		
Upper Tamaki River	16/10/2024	3	2608418	Donnor PL	n/a	fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	0.5	cleared blockage of fat
					8:19											uncontroll ed		
Upper Tamaki River	12/03/2025	3	81003694	Donnor PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE requested
					7:26											uncontroll ed		
Upper Tamaki River	8/05/2025	3	2609775	Donnor PL	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	1	Cleaned up and disso
					11:44											uncontroll ed		
Upper Tamaki River	10/02/2025	3	2569431	Snell PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					18:08											uncontroll ed		
Upper Tamaki River	11/02/2025	3	2498953	Atkinson AVE	n/a	Fat	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:50											uncontroll ed		
Upper Tamaki River	11/02/2025	3	2574499	Sutton CRES	n/a	Unknown	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:49											uncontroll ed		
Upper Tamaki River	12/02/2025	3	2574255	Wilbur PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					20:17											uncontroll ed		
Upper Tamaki River	13/02/2025	3	2498812	Hutton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:11											uncontroll ed		
Upper Tamaki River	13/02/2025	3	2569236	Downsvie w RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:49											uncontroll ed		
Upper Tamaki River	14/02/2025	3	2578202	Britannia PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	rods
					11:37											uncontroll ed		
Upper Tamaki River	15/02/2025	3	2573159	Clayton AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:45											uncontroll ed		
Upper Tamaki River	16/02/2025	3	2569220	Simon Owen PL	n/a	Fat	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:16											uncontroll ed		
Upper Tamaki River	18/02/2025	3	2495780	Jolson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:16											uncontroll ed		

Upper Tamaki River	18/02/2025	3	82844931	Ferndale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared blockage.
					16:39													
Upper Tamaki River	20/02/2025	3	2472557	Earlsworth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:41													
Upper Tamaki River	21/02/2025	3	2576474	Sutton CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:12													
Upper Tamaki River	24/02/2025	3	2466677	Cardiff RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods and pigtails
					7:31													
Upper Tamaki River	25/02/2025	3	2466297	Bairds RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					21:21													
Upper Tamaki River	28/02/2025	3	2579381	Edgewater DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:35													
Upper Tamaki River	2/03/2025	3	2466102	MacLeans RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, rehaunching
					18:19													
Upper Tamaki River	2/03/2025	3	2494057	Albert ST	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	1ppm	flushed line
					10:43													
Upper Tamaki River	3/03/2025	3	2573024	Borrowdace AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					20:00													
Upper Tamaki River	3/03/2025	3	2570755	Gaye CRES	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, rods
					10:50													
Upper Tamaki River	3/03/2025	3	2460029	Gossamer DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:25													
Upper Tamaki River	4/03/2025	3	2587095	Chapel RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:43													
Upper Tamaki River	4/03/2025	3	2576113	Bells RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:02													
Upper Tamaki River	5/03/2025	3	2498395	Walters RD	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.5ppm	flushed line
					12:16													
Upper Tamaki River	6/03/2025	3	2568033	Vanbrugh PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush, repair might be needed
					12:40													
Upper Tamaki River	8/03/2025	3	2468362	Kingswood RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					17:34													

Upper Tamaki River	10/03/2025	3	2571412	Glassonby RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	rods
					10:22														
Upper Tamaki River	11/03/2025	3	2554319	Killarney DR	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:26														
Upper Tamaki River	11/03/2025	3	2565294	Etherege PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:12														
Upper Tamaki River	13/03/2025	3	2575720	Herald PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					10:17														
Upper Tamaki River	14/03/2025	3	2508757	Mataroa RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line, sucker truck
					10:47														
Upper Tamaki River	14/03/2025	3	2611308	Hillside RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:22														
Upper Tamaki River	15/03/2025	3	2472457	Gilbert RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					16:56														
Upper Tamaki River	19/03/2025	3	2615197	Ganges AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	heavy flush
					10:40														
Upper Tamaki River	18/11/2024	3	2559305	Anmarie AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					7:59														
Upper Tamaki River	21/03/2025	3	2465269	Massey RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line, CCTV needed
					14:55														
Upper Tamaki River	25/11/2024	3	2559305	Anmarie AVE	n/a	Fat	Yes	Construction site	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:59														
Upper Tamaki River	29/11/2024	3	2559305	Anmarie AVE	n/a	Silts	Yes	Unknown	L2	Local	small waterway	yes	yes	no	no	n/a	uncontrolled	No info.	heavy flush
					19:44														
Upper Tamaki River	22/03/2025	3	2469059	Bairds RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					10:57														
Upper Tamaki River	23/03/2025	3	2568270	Santa Ana DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					15:58														
Upper Tamaki River	23/03/2025	3	2601792	Trenwith ST	n/a	Unknown	No	Reserve/park	L3	Local	SW network	yes	no	yes	no	n/a	uncontrolled	6	flushed line
					16:08														
Upper Tamaki River	23/03/2025	3	2470401	East Tamaki RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:48														
Upper Tamaki River	24/03/2025	3	2496571	Panama RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, CCTV, escalated
					15:25														

Upper Tamaki River	25/03/2025	3	82605714	Vista Estate BLVD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					17:13													
Upper Tamaki River	25/03/2025	3	2581838	Swaffield RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					17:06													
Upper Tamaki River	13/01/2025	3	81014740	Ngaio ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:52													
Upper Tamaki River	14/05/2025	3	2498490	Ngaio ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					11:59													
Upper Tamaki River	26/03/2025	3	2471262	Te Irirangi DR	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					6:40													
Upper Tamaki River	26/03/2025	3	2476055	Srah PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:31													
Upper Tamaki River	25/05/2025	3	81014740	Ngaio ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, wash down and disso.
					11:14													
Upper Tamaki River	27/03/2025	3	2465737	Preston RD	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					11:05													
Upper Tamaki River	22/06/2025	3	81014740	Ngaio ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:14													
Upper Tamaki River	28/03/2025	3	2471142	Wedgwood AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV required
					8:32													
Upper Tamaki River	31/03/2025	3	2464491	Gilbert RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					18:58													
Upper Tamaki River	1/04/2025	3	1457639	Gray AVE	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					23:29													
Upper Tamaki River	2/04/2025	3	2615412	Clare PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:34													
Upper Tamaki River	3/04/2025	3	2572542	Caldbeck RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:35													
Upper Tamaki River	6/04/2025	3	2496571	Panama RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:56													
Upper Tamaki River	6/04/2025	3	1447802	Edgewater DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, raise MH
					11:52													
Upper Tamaki River	6/04/2025	3	2577921	Gossamer DR	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:33													

Upper Tamaki River	8/04/2025	3	2461950	Bostock PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:21													
Upper Tamaki River	10/04/2025	3	2467445	Chapel RD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, rehaunching
					9:42													
Upper Tamaki River	10/04/2025	3	2399324	McDonald CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:11													
Upper Tamaki River	11/04/2025	3	2467188	Mandarin PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rods
					14:35													
Upper Tamaki River	11/04/2025	3	2570499	Pakuranga RD	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush required
					8:22													
Upper Tamaki River	12/04/2025	3	2468851	Preston RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					7:18													
Upper Tamaki River	14/04/2025	3	2463814	Clutha CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:56													
Upper Tamaki River	15/04/2025	3	1493701	Bronwylian DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:15													
Upper Tamaki River	26/06/2025	3	2557154	Aster PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rods to unblock, flushed line, clean up and disso.
					14:38													
Upper Tamaki River	5/07/2024	3	2483748	Barrie AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:05													
Upper Tamaki River	22/07/2024	3	2578379	Barrie AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:19													
Upper Tamaki River	8/09/2024	3	2471639	Wilmay AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:04													
Upper Tamaki River	4/01/2025	3	2471639	Wilmay AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:55													
Upper Tamaki River	25/08/2024	3	2577997	Collett RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:09													
Upper Tamaki River	19/07/2024	3	2613775	Ellerslie-Panmure HWY	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:07													

Upper Tamaki River	21/04/2025	3	2509138	Ellerslie-Panmure HWY	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso. Further works req to fix the pipe.
					11:56													
Upper Tamaki River	29/07/2024	3	2617983	Ellerslie-Panmure HWY	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					11:43													
Upper Tamaki River	21/03/2025	3	2613775	Ellerslie-Panmure HWY	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:36													
Upper Tamaki River	21/04/2025	3	2583303	Birch PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Multiple Flushing, CCTV, clean up and disso
					13:59													
Upper Tamaki River	21/04/2025	3	2615402	Waipuna RD-E	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					10:30													
Upper Tamaki River	22/04/2025	3	2568282	Channing CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, jetted, but there is further blockage. Escalated for further investigations.
					13:22													
Upper Tamaki River	22/04/2025	3	2466955	Tyrone ST	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					8:23													
Upper Tamaki River	23/04/2025	3	1345181	Pearl Baker DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	GT flushed, clean up and disso.
					13:31													
Upper Tamaki River	12/05/2025	3	2600251	High ST	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:45													
Upper Tamaki River	25/04/2025	3	2399635	Finn PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Root removal, flushing. Escalation for CSE to roots removal
					14:30													

Upper Tamaki River	19/05/2025	3	2499732	High ST	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Works underway to remove broken MH bench. Cleaned up and disso area.
					11:58													
Upper Tamaki River	29/04/2025	3	2498815	Panama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:46													
Upper Tamaki River	29/04/2025	3	2465658	Awatere ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:27													
Upper Tamaki River	29/04/2025	3	2465375	Parker CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repaired pipe
					10:46													
Upper Tamaki River	3/05/2025	3	2569568	Tahere RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger.
					17:14													
Upper Tamaki River	3/05/2025	3	2508883	Leonard RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					17:14													
Upper Tamaki River	5/07/2024	3	2609767	Ballarat ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					16:37													
Upper Tamaki River	6/05/2025	3	2571344	Glennandrew DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked using rods. Cleaned up and disso.
					10:39													
Upper Tamaki River	7/05/2025	3	2496959	Princes ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned and disso.
					14:29													
Upper Tamaki River	7/05/2025	3	2466575	Ti Rakau DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted and heavy flushed line. Cleaned up and disso.
					12:13													
Upper Tamaki River	3/05/2025	3	2499509	Frank Grey PL	n/a	Rags	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0	Flushed, clean up and disso.
					11:38													
Upper Tamaki River	30/06/2025	3	2499509	Frank Grey PL	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.25	Flushed, clean up and disso.
					8:56													
Upper Tamaki River	6/01/2025	3	2499034	Tuapapa WAY	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:29													
Upper Tamaki River	21/02/2025	3	2498034	Tuapapa WAY	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					9:05													

Upper Tamaki River	13/05/2025	3	2569182	Bledisloe ST	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, removed roots, cleaned up and disso.
					18:18													
Upper Tamaki River	15/05/2025	3	2589900	Gilford PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, removed roots, cleaned up and disso.
					9:17													
Upper Tamaki River	15/05/2025	3	2399316	Panorama RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso. Escalated to fix the broken up.
					18:13													
Upper Tamaki River	16/05/2025	3	2481917	Triumph RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots
					13:49													
Upper Tamaki River	8/09/2024	3	2471366	Chapel RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root removal
					22:16													
Upper Tamaki River	12/01/2025	3	2471366	Chapel RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:40													
Upper Tamaki River	27/01/2025	3	2468057	Chapel RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	unblocked
					15:52													
Upper Tamaki River	16/03/2025	3	2471366	Chapel RD	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, steel pipe, CCTV
					11:52													
Upper Tamaki River	18/05/2025	3	2399602	Hutton ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					18:24													
Upper Tamaki River	22/05/2025	3	2467698	Dawson RD	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked. Clean up and disso.
					7:32													
Upper Tamaki River	23/05/2025	3	2399816	Hamlin RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:18													
Upper Tamaki River	22/05/2025	3	2565763	Waipuna RD	n/a	Fat	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					13:14													
Upper Tamaki River	23/05/2025	3	1436679	Waipuna RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleared blockage.
					8:29													
Upper Tamaki River	8/06/2025	3	2456068	Waipuna RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flush to clear blockage.
					12:13													
Upper Tamaki River	25/05/2025	3	2564112	Mark Edward DR	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted to unblock and disso.
					13:17													

Upper Tamaki River	25/05/2025	3	2460832	Darren CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, CCTVd, clean up and disso.
					17:27													
Upper Tamaki River	7/08/2024	3	2497633	Avenue RD	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:20													
Upper Tamaki River	23/10/2024	3	2496003	Avenue RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:00													
Upper Tamaki River	13/11/2024	3	2606231	Avenue RD	n/a	Rubbish	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	removed bottle causing blockage
					14:27													
Upper Tamaki River	31/05/2025	3	2467436	Riplington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked using rods.
					15:14													
Upper Tamaki River	31/05/2025	3	2571554	Kolmar RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger.
					16:15													
Upper Tamaki River	1/06/2025	3	2575544	Glennandrew DR	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to clear rags and grease blockage, used shovel to remove rock in the another MH connecting the mainline.
					15:31													
Upper Tamaki River	1/06/2025	3	2565923	Howe ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed from pigtail and saw. Cleand up.
					9:19													
Upper Tamaki River	1/06/2025	3	2464005	Eileen LN	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd and heavy flushing.
					14:26													
Upper Tamaki River	14/08/2024	3	2399497	Walters RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:29													
Upper Tamaki River	24/08/2024	3	2399497	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Back flushed line, sucker truck
					21:45													

Upper Tamaki River	3/06/2025	3	2399572	Waipuna RD-E	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT, wash down and disso.
					14:28													
Upper Tamaki River	19/01/2025	3	2570139	Megan AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:26													
Upper Tamaki River	4/06/2025	3	1441068	Mandarin PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd.
					18:33													
Upper Tamaki River	20/05/2025	3	2570139	Megan AVE	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted clean up and disso.
					18:02													
Upper Tamaki River	6/06/2025	3	2615197	Calvert AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flushing.
					15:44													
Upper Tamaki River	6/06/2025	3	2477998	Bairds RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Hydro Vac cleaned up.
					10:58													
Upper Tamaki River	6/06/2025	3	2574215	Great South RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Used rods to unblock it. HydroVac to clean up and disso.
					10:01													
Upper Tamaki River	7/06/2025	3	1433252	Bain PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock.
					20:51													
Upper Tamaki River	7/11/2024	3	2571574	Hamill RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					6:18													
Upper Tamaki River	19/11/2024	3	2571574	Hamill RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rods to unblock
					3:37													
Upper Tamaki River	12/02/2025	3	2571570	Hamill RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:00													
Upper Tamaki River	19/02/2025	3	2575877	Hamill RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV requested
					7:40													
Upper Tamaki River	29/03/2025	3	2575877	Hamill RD	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:14													
Upper Tamaki River	7/06/2025	3	2578239	Bolton PL	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to unblock and cleaned up.
					13:51													
Upper Tamaki River	8/06/2025	3	2401338	Ballarat ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:47													

Upper Tamaki River	26/08/2024	3	2568622	Cornwall RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:57													
Upper Tamaki River	10/09/2024	3	2568622	Cornwall RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated to southern networks
					10:47													
Upper Tamaki River	28/01/2025	3	2464333	Golfland DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:49													
Upper Tamaki River	9/02/2025	3	2464333	Golfland DR	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:38													
Upper Tamaki River	10/06/2025	3	2581750	Preston RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso.
					9:58													
Upper Tamaki River	11/05/2025	3	2469458	Bolton PL	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flshed line. Further works needed due to stuck plug.
					10:48													
Upper Tamaki River	12/06/2025	3	2484543	Gortnest PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove obstruction .
					21:27													
Upper Tamaki River	12/06/2025	3	2590051	Overton RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed.
					18:46													
Upper Tamaki River	13/06/2025	3	2495897	Jellicoe ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					13:52													
Upper Tamaki River	13/06/2025	3	2469766	Lappington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, clean up and reinstated. Escalated to heavy flush.
					2:49													
Upper Tamaki River	13/06/2025	3	2570963	Hamilton RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, clean up. Heavy flush.
					8:55													
Upper Tamaki River	14/06/2025	3	2574502	Wynton PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cleaned up and disso.
					12:41													

Upper Tamaki River	14/06/2025	3	2579213	Rongomai RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cleaned up and disso.
					13:35													
Upper Tamaki River	14/06/2025	3	2469927	Chatsworth CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to clear blockage. Cleaned up and reinstated.
					8:16													
Upper Tamaki River	16/06/2025	3	2583585	Wayne Francis DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Root removal
					7:37													
Upper Tamaki River	16/06/2025	3	2561409	Wells RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, removed fat & rags
					15:24													
Upper Tamaki River	17/06/2025	3	2577743	Boundary RD	n/a	Fat	No	Retail/commercial/public	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed multiple lines to unblock, clean up, CCTvd, found broken pipe. Patched line.
					17:01													
Upper Tamaki River	17/06/2025	3	2580613	Windoma CIR	n/a	Unknown	No	Reserve/park	L2	Local	SW network	yes	no	yes	no	n/a uncontrolled	No info.	Unblocked and restored the flow.
					14:45													
Upper Tamaki River	18/06/2025	3	2559538	Dungloe AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	jetted to unblock, clean up and disso.
					8:44													
Upper Tamaki River	18/06/2025	3	2568932	Cherry RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Disso applied.
					16:56													
Upper Tamaki River	16/09/2024	3	2471049	Station RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:08													
Upper Tamaki River	18/06/2025	3	2506994	George Bourke DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots.
					19:02													
Upper Tamaki River	19/06/2025	3	2578735	Williams CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock. Disso applied.
					13:30													
Upper Tamaki River	20/06/2025	3	2457002	Tarnica RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cse to remove roots.
					11:20													

Upper Tamaki River	20/06/2025	3	2573554	Reeves RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rods to clear blockage. Cleaned up.
					9:49													
Upper Tamaki River	21/06/2025	3	2472499	Coates RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, still investigating
					11:19													
Upper Tamaki River	22/06/2025	3	2463260	Lappington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:59													
Upper Tamaki River	23/06/2025	3	2575056	Wymondley RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up.
					12:23													
Upper Tamaki River	24/06/2025	3	2507235	Carrs PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Cleaned up and disso.
					10:21													
Upper Tamaki River	25/06/2025	3	2576742	Nevada AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted MH, clean up and disso.
					11:31													
Upper Tamaki River	27/06/2025	3	2462211	Otara RD	n/a	Foreign Object	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, escalated to CSE.
					8:03													
Upper Tamaki River	19/03/2025	3	2576763	Esperanto RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:48													
Upper Tamaki River	30/06/2025	3	2460465	Merino AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	jetted to unblock.
					19:55													
Upper Tamaki River	30/06/2025	3	1338396	Julian PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line. Escalated for larger clean up.
					10:37													
Upper Tamaki River	30/06/2025	3	2581753	Cooper CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					10:38													
Upper Tamaki River	16/11/2024	2	1549	14 McLean Ave, Papatoetoe	40	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					19:15													
Waiuku	5/07/2024	3	2425643	Riverside DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					8:21													
Waiuku	11/07/2024	3	81012007	Valley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					15:09													

Waiuku	15/10/2024	3	2425589	Owens RD	n/a	fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					20:55											uncontrolled		
Waiuku	21/10/2024	3	2420664	Belgium ST	n/a	Fat	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:44											uncontrolled		
Waiuku	24/11/2024	3	81158143	Victoria AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:28											uncontrolled		
Waiuku	28/11/2024	3	2424998	Totara ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line,cctv
					21:47											uncontrolled		
Waiuku	9/12/2024	3	2418670	Thornlea GRV	n/a	Fat	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	wash down and disinfect
					22:07											uncontrolled		
Waiuku	25/01/2025	3	2527791	Kent ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	further investigation
					13:00											uncontrolled		
Waiuku	12/04/2025	3	2425101	Bella Villa DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					17:22											uncontrolled		
Waiuku	7/05/2025	3	2418511	Belgium ST	n/a	Fat	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					12:34											uncontrolled		
Waiuku	11/05/2025	3	2417575	Sandspit RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV'd. flushed line, cleaned up and disso.
					11:56											uncontrolled		
Waiwera	23/06/2025	3	2447124	Waiwera RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:00											uncontrolled		
Warkworth	6/07/2024	3	2448717	Elizabeth ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblock from holding chamber
					15:05											uncontrolled		
Warkworth	6/09/2024	3	2553115	Queen ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:50											uncontrolled		
Warkworth	8/05/2025	3	2442297	Queen ST	n/a	Unknown	Yes	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					13:48											uncontrolled		
Warkworth	31/08/2024	3	2548204	Campbell DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Rods, flushed line
					8:42											uncontrolled		
Warkworth	4/09/2024	3	1540348	Alnwick ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	endcapped abandoned line
					8:22											uncontrolled		
Warkworth	11/05/2025	3	2443835	Elizabeth ST	n/a	Unknown	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, cleaned up and disso.
					15:20											uncontrolled		

Warkworth	16/06/2025	3	1537554	Elizabeth ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:41													
Warkworth	19/10/2024	3	2448579	Woodcocks RD	n/a	Rubbish	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed line.
					11:59													
Warkworth	16/11/2024	3	2546531	Alnwick ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:16													
Warkworth	3/02/2025	3	2552867	Victoria ST	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:07													
Warkworth	20/02/2025	3	82941353	Puhinui AVE	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Installed 2 new boundary kits, flushed line
					15:37													
Warkworth	25/03/2025	3	2449300	Woodcocks RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:33													
Warkworth	1/04/2025	3	2546597	Pound ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, Vacuum out, washdown. Ticket for clean up.
					14:24													
Warkworth	20/04/2025	3	2444287	Elizabeth ST	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:53													
Warkworth	5/08/2024	3	2442783	Woodcocks RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line multiple times, vacuum
					14:19													
Warkworth	7/08/2024	3	2442783	Woodcocks RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:54													
Warkworth	17/07/2024	2	1540	Elizabeth Street, Warkworth	40	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													
Warkworth	17/08/2024	2	1540	Elizabeth Street, Warkworth	40	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:10													
Warkworth	2/10/2024	2	1540	Elizabeth Street, Warkworth	355	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:40													

Warkworth	5/10/2024	2	1540	Elizabeth Street, Warkworth	15	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:00													
Warkworth	9/10/2024	2	1540	Elizabeth Street, Warkworth	25	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:25													
Warkworth	26/01/2025	2	1540	Elizabeth Street, Warkworth	20	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:15													
Warkworth	26/04/2025	2	1540	Elizabeth Street, Warkworth	590	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:20													
Warkworth	26/04/2025	2	1540	Elizabeth Street, Warkworth	40	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:30													
Warkworth	8/05/2025	2	1540	Elizabeth Street, Warkworth	590	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:45													
Warkworth	18/05/2025	2	1540	Elizabeth Street, Warkworth	20	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:20													
Warkworth	18/05/2025	2	1540	Elizabeth Street, Warkworth	20	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:55													
Warkworth	26/05/2025	2	1540	Elizabeth Street, Warkworth	510	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:10													
Warkworth	10/06/2025	2	1540	Elizabeth Street, Warkworth	160	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:20													
Warkworth	15/06/2025	2	1540	Elizabeth Street, Warkworth	120	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:25													
Weiti	16/09/2024	3	2443802	Silverdale ST	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:27													
Weiti	9/11/2024	3	2446651	Poplar RD	n/a	Unknown	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	flushed line
					13:06													
Weiti	18/12/2024	3	2436383	Flexman PL	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE, flushed line, CCTV
					12:18													

Weiti	16/01/2025	3	2616951	Johns Creek CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:38											uncontrolled		
Weiti	12/02/2025	3	2539119	Silverdale ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:28											uncontrolled		
Weiti	3/03/2025	3	2553293	Blue Gum AVE	n/a	Broken pipe	No	Retail/commercial/public	L2	Local	Small waterway	yes	yes	no	no	n/a	No info.	pipe repair
					8:12											uncontrolled		
Weiti	5/03/2025	3	2539119	Silverdale ST	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a	2ppm	rods
					21:40											uncontrolled		
Weiti	22/03/2025	3	2459378	Duck Creek RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CSE
					7:50											uncontrolled		
Weiti	3/04/2025	3	2440320	Flexman PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:26											uncontrolled		
Weiti	1/06/2025	3	2538224	Snapper RD	n/a	Fat	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	No info.	Flushed, cleaned up and disso.
					16:45											uncontrolled		
Wellsford	1/07/2024	3	2440892	Olympus RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					21:19											uncontrolled		
Wellsford	4/08/2024	3	2542204	School RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Pump Station Issue?
					19:52											uncontrolled		
Wellsford	12/08/2024	3	2549635	Davies RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					18:54											uncontrolled		
Wellsford	25/04/2025	3	1537601	Rodney ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					8:49											uncontrolled		
Wellsford	26/04/2025	3	1537048	Rodney ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed. Wash down and disso.
					14:23											uncontrolled		
Wellsford	28/04/2025	3	2550585	Rodney ST	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Heavy flush.
					12:40											uncontrolled		
Wellsford	3/09/2024	3	2447116	Armitage RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:15											uncontrolled		
Wellsford	10/06/2025	3	2440716	Totara VW	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, dye tested.
					9:17											uncontrolled		
Wellsford	25/10/2024	3	2442528	Tomas ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					15:28											uncontrolled		
Wellsford	7/02/2025	3	2442528	Tomas ST	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					8:45											uncontrolled		

Wellsford	18/02/2025	3	2547869	Matheson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:35											n/a	uncontrolled	
Wellsford	15/03/2025	3	2547372	Armitage RD	n/a	Unknown	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					18:30											n/a	uncontrolled	
Wellsford	17/08/2024	3	2441057	Rodney ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:05											n/a	uncontrolled	
Wellsford	20/08/2024	3	2441057	Rodney ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, sucker truck
					8:16											n/a	uncontrolled	
Wellsford	5/10/2024	3	2553428	Astrid LN	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:48											n/a	uncontrolled	
Wellsford	20/12/2024	3	2441439	Centennial Park RD	n/a	Broken pipe	Yes	Reserve/park	L2	Local	Small waterway	yes	yes	no	no	n/a	0.5ppm	Repair pipe,
					8:39											n/a	uncontrolled	
Wellsford	3/05/2025	3	2441439	Centennial Park RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted, plunger to unblock, clean up and disso.
					9:22											n/a	uncontrolled	
Wellsford	30/06/2025	1	1128	Worker Road Pump Station	1166	Unknown	Yes	Unnamed tributary (south) of Whakapirau Creek	Unknown	Local	Small waterway	yes	yes	no	no	yes	no info	
					18:15													
Western Isthmus (Central Interceptor)	3/07/2024	3	2495766	Fourth AVE	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	Unblocked line
					17:10											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	3/07/2024	3	2403352	Upper Queen ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV, removed roots
					8:58											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	8/07/2024	3	2494007	Bollard AVE	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, removed timber
					16:40											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	9/07/2024	3	2595961	Exmouth ST	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	Flushed line, unblock
					9:36											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	9/07/2024	3	2567225	New North RD	n/a	Fat	No	On property	L3	Local	SW network	no	no	yes	no	n/a	6	Unblocked from MH, cleared cesspit
					12:29											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	9/07/2024	3	2499292	Grant ST	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:09											n/a	uncontrolled	

Western Isthmus (Central Interceptor)	5/04/2025	3	2605055	Don Croot ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:35													
Western Isthmus (Central Interceptor)	14/07/2024	3	2603685	Margate RD	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	1	Flushed line
					9:41													
Western Isthmus (Central Interceptor)	6/04/2025	3	2493622	Don Croot ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:37													
Western Isthmus (Central Interceptor)	17/07/2024	3	2599769	Milliken AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:52													
Western Isthmus (Central Interceptor)	17/07/2024	3	2489635	Taylors RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:20													
Western Isthmus (Central Interceptor)	21/07/2024	3	81013714	Webster AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:05													
Western Isthmus (Central Interceptor)	22/07/2024	3	2492796	Leslie AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, bypass, dig up & repair pipe
					7:01													
Western Isthmus (Central Interceptor)	23/07/2024	3	2605362	McKinnon ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:05													
Western Isthmus (Central Interceptor)	23/07/2024	3	2402259	Meola RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:20													
Western Isthmus (Central Interceptor)	26/07/2024	3	2599417	Balmoral RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:01													
Western Isthmus (Central Interceptor)	19/10/2024	3	2480812	Plane ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:45													
Western Isthmus (Central Interceptor)	6/11/2024	3	2480812	Plane ST	n/a	Unknown	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	1	flushed line
					16:16													
Western Isthmus (Central Interceptor)	28/07/2024	3	81002037	Richardson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:27													

Western Isthmus (Central Interceptor)	28/07/2024	3	2496216	Skeates AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, unsure if public
					13:15													
Western Isthmus (Central Interceptor)	29/07/2024	3	2603844	Richardson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					8:59													
Western Isthmus (Central Interceptor)	17/10/2024	3	2585158	Arran ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:22													
Western Isthmus (Central Interceptor)	8/01/2025	3	2585158	Arran ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:54													
Western Isthmus (Central Interceptor)	9/01/2025	3	2585158	Arran ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:02													
Western Isthmus (Central Interceptor)	31/07/2024	3	2603409	Oakdale RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:54													
Western Isthmus (Central Interceptor)	4/08/2024	3	2600000	Dominion RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					11:29													
Western Isthmus (Central Interceptor)	26/08/2024	3	2494572	Dominion RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:45													
Western Isthmus (Central Interceptor)	16/09/2024	3	2494572	Dominion RD	n/a	Fat	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25ppm	flushed line
					10:11													
Western Isthmus (Central Interceptor)	19/10/2024	3	2494572	Dominion RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:43													
Western Isthmus (Central Interceptor)	15/12/2024	3	2605943	Owairaka AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:45													
Western Isthmus (Central Interceptor)	17/06/2025	3	2605943	Owairaka AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed mainline to unblock, wash down and disso.
					18:17													

Western Isthmus (Central Interceptor)	6/08/2024	3	2504000	Mount Eden RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	epoxy chamber to prevent leaks
					10:03													
Western Isthmus (Central Interceptor)	7/08/2024	3	2495643	St Benedicts ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, dye test, excavation, repaired pipe
					11:17													
Western Isthmus (Central Interceptor)	8/08/2024	3	2605331	Pentland AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, dig up + repair
					19:03													
Western Isthmus (Central Interceptor)	8/08/2024	3	2402906	Dominion RD-X	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, escalated for CCTV
					9:34													
Western Isthmus (Central Interceptor)	1/10/2024	3	2496408	Dominion RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:32													
Western Isthmus (Central Interceptor)	25/10/2024	3	2608659	Dominion RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:16													
Western Isthmus (Central Interceptor)	8/02/2025	3	2499879	New Windsor RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:18													
Western Isthmus (Central Interceptor)	8/07/2024	3	2606941	O'Donnell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked mains
					9:45													
Western Isthmus (Central Interceptor)	20/08/2024	3	2600934	Mount Eden RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:54													
Western Isthmus (Central Interceptor)	12/08/2024	3	2606941	O'Donnell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	FDEN raised to investigate cause
					10:09													
Western Isthmus (Central Interceptor)	15/08/2024	3	2606941	O'Donnell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					8:49													
Western Isthmus (Central Interceptor)	21/08/2024	3	2493012	Landscape RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, root cut
					14:57													
Western Isthmus (Central Interceptor)	23/08/2024	3	2496743	Dexter AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:44													

Western Isthmus (Central Interceptor)	11/04/2025	3	2493300	Hayr RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:02													
Western Isthmus (Central Interceptor)	23/08/2024	3	81016124	Rosebank RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for repair plan
					22:22													
Western Isthmus (Central Interceptor)	13/04/2025	3	2493300	Hayr RD	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:18													
Western Isthmus (Central Interceptor)	26/08/2024	3	2611916	Mount Albert RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:07													
Western Isthmus (Central Interceptor)	27/08/2024	3	2498845	Olsen AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dye test, flushed line, CCTV, escalated
					17:20													
Western Isthmus (Central Interceptor)	27/08/2024	3	2499874	Penney AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:40													
Western Isthmus (Central Interceptor)	12/08/2024	3	2607763	May RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:07													
Western Isthmus (Central Interceptor)	3/12/2024	3	2496606	May RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv
					12:43													
Western Isthmus (Central Interceptor)	9/12/2024	3	2496606	May RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, dig up and removal
					16:06													
Western Isthmus (Central Interceptor)	2/09/2024	3	2600036	Mount Eden RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:46													
Western Isthmus (Central Interceptor)	3/09/2024	3	81015701	Noel PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:16													
Western Isthmus (Central Interceptor)	4/09/2024	3	2510733	Miranda ST	n/a	Fat	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0.5	Flushed line.
					7:43													
Western Isthmus (Central Interceptor)	4/09/2024	3	2496716	New North RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repair dislodged pipe
					10:54													

Western Isthmus (Central Interceptor)	6/09/2024	3	2492370	Don Croot ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE requested
					8:28													
Western Isthmus (Central Interceptor)	7/09/2024	3	2507581	Rona AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:11													
Western Isthmus (Central Interceptor)	6/10/2024	3	2599776	May RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:24													
Western Isthmus (Central Interceptor)	18/10/2024	3	2495499	May RD	n/a	Rags	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0	flushed line
					15:36													
Western Isthmus (Central Interceptor)	9/09/2024	3	2492290	New Windsor RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					16:14													
Western Isthmus (Central Interceptor)	10/09/2024	3	2449809	Dignan ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repair
					10:30													
Western Isthmus (Central Interceptor)	11/09/2024	3	2484587	Onslow AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up and repair pipe
					17:13													
Western Isthmus (Central Interceptor)	14/09/2024	3	2497301	Seaview TCE	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	pipe repaired.
					17:56													
Western Isthmus (Central Interceptor)	14/09/2024	3	2399778	Maioro ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:23													
Western Isthmus (Central Interceptor)	16/09/2024	3	2497308	Oakdale RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:33													
Western Isthmus (Central Interceptor)	4/06/2025	3	2399778	Maioro ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					9:22													
Western Isthmus (Central Interceptor)	17/09/2024	3	2490647	Mewburn AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					13:56													
Western Isthmus (Central Interceptor)	18/09/2024	3	2601278	Henley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:37													

Western Isthmus (Central Interceptor)	22/11/2024	3	2600598	Haverstock RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:34													
Western Isthmus (Central Interceptor)	23/11/2024	3	2600598	Haverstock RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, roots removed, dig up & repair
					16:05													
Western Isthmus (Central Interceptor)	11/01/2025	3	2600598	Haverstock RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					23:44													
Western Isthmus (Central Interceptor)	4/03/2025	3	81001975	Haverstock RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:39													
Western Isthmus (Central Interceptor)	8/03/2025	3	81001975	Haverstock RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, repair pipe
					14:27													
Western Isthmus (Central Interceptor)	16/06/2025	3	2600598	Haverstock RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:50													
Western Isthmus (Central Interceptor)	25/09/2024	3	2600026	Dominion RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:24													
Western Isthmus (Central Interceptor)	27/09/2024	3	2499442	New North RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleared line of fat & rags
					12:01													
Western Isthmus (Central Interceptor)	27/09/2024	3	2495499	Sandringham RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:21													
Western Isthmus (Central Interceptor)	28/09/2024	3	2497133	Dean ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root removal
					11:14													
Western Isthmus (Central Interceptor)	1/10/2024	3	2607103	Whitney ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:20													
Western Isthmus (Central Interceptor)	1/10/2024	3	2491595	Huia RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Repeat. Removed rubbish bag.
					7:30													
Western Isthmus (Central Interceptor)	4/10/2024	3	2489412	Walters RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:58													

Western Isthmus (Central Interceptor)	5/10/2024	3	2400705	Hawea RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked line
					16:07													
Western Isthmus (Central Interceptor)	10/10/2024	3	2602212	Taylor's RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:19													
Western Isthmus (Central Interceptor)	10/10/2024	3	2402108	Galatos ST	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	cctv, flushed line, repair break
					13:24													
Western Isthmus (Central Interceptor)	12/10/2024	3	2609623	Hillsborough RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	1	flushed line
					16:44													
Western Isthmus (Central Interceptor)	19/08/2024	3	2592918	Great North RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line, CCTV
					10:56													
Western Isthmus (Central Interceptor)	14/04/2025	3	2587399	Great North RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:26													
Western Isthmus (Central Interceptor)	13/10/2024	3	2614731	Subritzky AVE	n/a	Broken pipe	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	cctv requested
					11:25													
Western Isthmus (Central Interceptor)	13/10/2024	3	2401783	Montrose ST	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:13													
Western Isthmus (Central Interceptor)	15/10/2024	3	2494865	Alexis AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					11:03													
Western Isthmus (Central Interceptor)	16/10/2024	3	2601684	Methuen RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, further investigation
					16:13													
Western Isthmus (Central Interceptor)	13/06/2025	3	2591004	Great North RD	n/a	Roots	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	cleared roots.
					21:10													
Western Isthmus (Central Interceptor)	13/06/2025	3	2486863	Brixton RD	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:41													
Western Isthmus (Central Interceptor)	21/10/2024	3	2479179	Ahiriri AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse for root removal
					15:56													

Western Isthmus (Central Interceptor)	24/10/2024	3	2605895	New Windsor RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					23:39													
Western Isthmus (Central Interceptor)	24/10/2024	3	2492913	Edinburgh ST	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:58													
Western Isthmus (Central Interceptor)	30/10/2024	3	2497133	King ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					13:51													
Western Isthmus (Central Interceptor)	30/10/2024	3	2492425	Allendale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:21													
Western Isthmus (Central Interceptor)	31/10/2024	3	2601737	King ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					17:48													
Western Isthmus (Central Interceptor)	31/10/2024	3	2405529	New Windsor RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:21													
Western Isthmus (Central Interceptor)	31/10/2024	3	2599802	Patterson ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:24													
Western Isthmus (Central Interceptor)	2/11/2024	3	2606006	Wagener PL	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	plunged GT
					14:44													
Western Isthmus (Central Interceptor)	2/11/2024	3	2597193	Point Chevalier RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed concrete & rocks, repair line
					10:51													
Western Isthmus (Central Interceptor)	4/11/2024	3	2481297	Blockhouse Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:24													
Western Isthmus (Central Interceptor)	4/11/2024	3	81015611	Blockhouse Bay RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:09													
Western Isthmus (Central Interceptor)	6/11/2024	3	2596233	Great North RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:12													
Western Isthmus (Central Interceptor)	6/11/2024	3	2595960	New North RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					16:16													

Western Isthmus (Central Interceptor)	24/03/2025	3	2594989	Arran ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV needed
					19:00													
Western Isthmus (Central Interceptor)	26/03/2025	3	2594989	Arran ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:05													
Western Isthmus (Central Interceptor)	10/11/2024	3	2615401	New Windsor RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:55													
Western Isthmus (Central Interceptor)	11/11/2024	3	2507897	Bentleigh AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:29													
Western Isthmus (Central Interceptor)	12/11/2024	3	2597188	New North RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	suck out GT, dig up & unblock line
					14:47													
Western Isthmus (Central Interceptor)	14/11/2024	3	2595441	Peary RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:06													
Western Isthmus (Central Interceptor)	17/11/2024	3	2491961	Staveley AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushd line
					10:05													
Western Isthmus (Central Interceptor)	17/11/2024	3	2606013	Maybeck RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:37													
Western Isthmus (Central Interceptor)	19/11/2024	3	81157515	Bannerman RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:40													
Western Isthmus (Central Interceptor)	20/11/2024	3	2605059	Exmouth ST	n/a	Silts	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove debris
					13:15													
Western Isthmus (Central Interceptor)	24/11/2024	3	2406419	Tuarangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:30													
Western Isthmus (Central Interceptor)	25/11/2024	3	2493047	Margaret AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv
					14:14													
Western Isthmus (Central Interceptor)	28/11/2024	3	2605382	Novar PL	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	flushed line
					19:33													

Western Isthmus (Central Interceptor)	29/11/2024	3	2603244	Cedar RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:09													
Western Isthmus (Central Interceptor)	29/11/2024	3	2497783	Stoddard RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					16:04													
Western Isthmus (Central Interceptor)	29/11/2024	3	2400069	Bungalow AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	sewer rods
					17:32													
Western Isthmus (Central Interceptor)	2/12/2024	3	2494334	Mount Royal AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:49													
Western Isthmus (Central Interceptor)	2/12/2024	3	2604336	Stamford Park RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:20													
Western Isthmus (Central Interceptor)	3/12/2024	3	2595804	Pine ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:31													
Western Isthmus (Central Interceptor)	3/12/2024	3	81000774	Letterkenny PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, flushed line
					12:54													
Western Isthmus (Central Interceptor)	29/01/2025	3	2616532	Margate RD	n/a	Unknown	Yes	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					9:13													
Western Isthmus (Central Interceptor)	4/02/2025	3	2615645	Margate RD	n/a	Rags	Yes	Construction site	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:02													
Western Isthmus (Central Interceptor)	4/12/2024	3	2615320	Anita AVE	n/a	Broken pipe	No	Retail/commercial/public	L2	Local	Stream	yes	yes	no	no	n/a	1ppm	flushed line, repaired pipe
					19:00													
Western Isthmus (Central Interceptor)	13/08/2024	3	81001614	Battersby AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					17:23													
Western Isthmus (Central Interceptor)	23/12/2024	3	81002430	Battersby AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:40													
Western Isthmus (Central Interceptor)	9/12/2024	3	2603424	Arundel Street	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:17													

Western Isthmus (Central Interceptor)	2/10/2024	3	2492567	Kirk ST	n/a	Rubbish	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	unblocked line
					21:02													
Western Isthmus (Central Interceptor)	13/05/2025	3	2492567	Kirk ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					13:17													
Western Isthmus (Central Interceptor)	29/05/2025	3	2489016	Simmonds AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT, wash down and disso.
					16:32													
Western Isthmus (Central Interceptor)	11/12/2024	3	2487243	Great North RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:52													
Western Isthmus (Central Interceptor)	11/12/2024	3	81012755	Parkdale RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	Oppm	Flushed line.
					14:24													
Western Isthmus (Central Interceptor)	13/12/2024	3	2602959	Littlejohn ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:36													
Western Isthmus (Central Interceptor)	13/12/2024	3	2497110	Charlton AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:30													
Western Isthmus (Central Interceptor)	16/12/2024	3	2605208	Vic Butler ST	n/a	Broken pipe	No	Reserve/park	L2	Local	SW network	yes	no	yes	no	n/a uncontrolled	No info.	Repaired section of broken pipe concrete capped and reinstated.
					11:05													
Western Isthmus (Central Interceptor)	17/12/2024	3	81012254	Burnley TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:47													
Western Isthmus (Central Interceptor)	18/12/2024	3	2605047	Commercial RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV
					8:22													
Western Isthmus (Central Interceptor)	19/12/2024	3	2597222	Valley RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:05													
Western Isthmus (Central Interceptor)	26/12/2024	3	81002037	Richardson RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:20													

Western Isthmus (Central Interceptor)	29/12/2024	3	2603699	George ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:45													
Western Isthmus (Central Interceptor)	31/12/2024	3	2496066	Frost RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	flushed line
					18:57													
Western Isthmus (Central Interceptor)	31/12/2024	3	2510084	Whitney ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:33													
Western Isthmus (Central Interceptor)	3/01/2025	3	2490689	New North RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:40													
Western Isthmus (Central Interceptor)	5/01/2025	3	2499839	Ted William ST	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:06													
Western Isthmus (Central Interceptor)	6/01/2025	3	2608414	Blockhouse Bay RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, further investigation requested
					9:23													
Western Isthmus (Central Interceptor)	7/01/2025	3	2606852	Gifford AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:58													
Western Isthmus (Central Interceptor)	9/01/2025	3	2406416	Bond ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:12													
Western Isthmus (Central Interceptor)	9/01/2025	3	2610787	Howlett ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:25													
Western Isthmus (Central Interceptor)	8/10/2024	3	2599989	Beagle AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:21													
Western Isthmus (Central Interceptor)	24/10/2024	3	2599989	Beagle AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repeat overflow, removed toilet paper
					16:24													
Western Isthmus (Central Interceptor)	7/11/2024	3	2599989	Beagle AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					10:04													

Western Isthmus (Central Interceptor)	10/01/2025	3	2600253	Arabi ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:46													
Western Isthmus (Central Interceptor)	30/11/2024	3	2599989	Beagle AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:58													
Western Isthmus (Central Interceptor)	20/12/2024	3	2599989	Beagle AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:28													
Western Isthmus (Central Interceptor)	14/01/2025	3	2494980	St Andrews RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					16:22													
Western Isthmus (Central Interceptor)	14/01/2025	3	2616535	White Swan RD	n/a	Silts	No	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	6	heavy flush
					10:57													
Western Isthmus (Central Interceptor)	17/01/2025	3	2599696	Eldon RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	needs repair, CCTV
					8:33													
Western Isthmus (Central Interceptor)	19/01/2025	3	82816145	Haycock AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:48													
Western Isthmus (Central Interceptor)	20/01/2025	3	2485307	Fifth AVE	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:13													
Western Isthmus (Central Interceptor)	20/01/2025	3	81010458	Kain ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:34													
Western Isthmus (Central Interceptor)	22/01/2025	3	2491625	Finch ST	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	Oppm	flushed line
					15:25													
Western Isthmus (Central Interceptor)	23/01/2025	3	2615222	Fir ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:51													
Western Isthmus (Central Interceptor)	24/01/2025	3	2603340	Linwood AVE	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	flushed line
					10:28													
Western Isthmus (Central Interceptor)	24/01/2025	3	2489124	Normanby RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					15:03													

Western Isthmus (Central Interceptor)	24/01/2025	3	2598103	Truro RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:02													
Western Isthmus (Central Interceptor)	18/09/2024	3	2495337	Himikera AVE	n/a	Fat	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25ppm	flushed line
					13:14													
Western Isthmus (Central Interceptor)	8/03/2025	3	2495337	Himikera AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:52													
Western Isthmus (Central Interceptor)	28/01/2025	3	2499269	Whitney ST	n/a	Roots	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0.5	roots removed
					11:27													
Western Isthmus (Central Interceptor)	27/04/2025	3	2489412	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					9:28													
Western Isthmus (Central Interceptor)	2/05/2025	3	2489412	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed GT. CCTV needed to confirm if this is private.
					9:44													
Western Isthmus (Central Interceptor)	12/05/2025	3	2489412	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucked out gully and cleaned up.
					10:52													
Western Isthmus (Central Interceptor)	1/02/2025	3	81002446	Covic AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	PRIVATE?
					8:41													
Western Isthmus (Central Interceptor)	4/02/2025	3	2611198	Wolverton ST	n/a	Rags	No	Road/footpath	L3	Local	SW network	yes	no	yes	n/a uncontrolled	6	flushed line	
					8:32													
Western Isthmus (Central Interceptor)	10/02/2025	3	2498161	Himikera AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:31													
Western Isthmus (Central Interceptor)	25/02/2025	3	81000121	Fairway DR	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					15:38													
Western Isthmus (Central Interceptor)	10/05/2025	3	2502784	Fairway DR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger. Cleaned up and disso.
					20:39													

Western Isthmus (Central Interceptor)	12/02/2025	3	2481833	Tiverton RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:55													
Western Isthmus (Central Interceptor)	13/02/2025	3	2485984	Landscape RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pipe repaired
					11:29													
Western Isthmus (Central Interceptor)	25/07/2024	3	2497717	Parkinson AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, dye test
					15:22													
Western Isthmus (Central Interceptor)	14/02/2025	3	2494979	Watling ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:24													
Western Isthmus (Central Interceptor)	15/02/2025	3	2490180	Lloyd AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					20:04													
Western Isthmus (Central Interceptor)	3/12/2024	3	2497717	Parkinson AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv requested
					9:36													
Western Isthmus (Central Interceptor)	17/02/2025	3	2606934	Stoddard RD	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	flushed line
					10:34													
Western Isthmus (Central Interceptor)	18/02/2025	3	2401103	New North RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:29													
Western Isthmus (Central Interceptor)	18/02/2025	3	2605260	Oakley AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	under investigation
					13:26													
Western Isthmus (Central Interceptor)	3/02/2025	3	2590554	Johnstone ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					14:20													
Western Isthmus (Central Interceptor)	1/04/2025	3	2590554	Johnstone ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					23:17													
Western Isthmus (Central Interceptor)	3/04/2025	3	2590554	Johnstone ST	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0.25ppm	flushed line
					11:21													
Western Isthmus (Central Interceptor)	21/02/2025	3	81002045	Subritzky AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:52													

Western Isthmus (Central Interceptor)	23/02/2025	3	2606066	Blockhouse Bay RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:22													
Western Isthmus (Central Interceptor)	13/05/2025	3	2608040	Tiverton RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, fixed cracked buchan trap, flushed.
					22:14													
Western Isthmus (Central Interceptor)	25/02/2025	3	2482977	Seacombe RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush and CCTV requested
					17:40													
Western Isthmus (Central Interceptor)	26/02/2025	3	2478942	View RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, dig up to be done
					20:39													
Western Isthmus (Central Interceptor)	28/02/2025	3	81000121	Fairway DR	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	1ppm	flushed line
					8:12													
Western Isthmus (Central Interceptor)	28/02/2025	3	2482977	Seacombe RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:09													
Western Isthmus (Central Interceptor)	1/03/2025	3	2406384	Great North RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:40													
Western Isthmus (Central Interceptor)	2/03/2025	3	81002215	Terry ST	n/a	Rags	No	Reserve/park	L4	Local	Stream	yes	yes	no	no	n/a uncontrolled	6	flushed line, flushed creek
					11:55													
Western Isthmus (Central Interceptor)	3/03/2025	3	2498019	Griffen Park RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:22													
Western Isthmus (Central Interceptor)	3/03/2025	3	2486591	Oliver ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rootcut, might need dig up and repair
					13:40													
Western Isthmus (Central Interceptor)	4/03/2025	3	2599344	Skipper AVE	n/a	Silts	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	1ppm	flushed line
					19:12													

Western Isthmus (Central Interceptor)	5/03/2025	3	81003492	Mary Dreaver ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, escalated for heavy flush
					18:16													
Western Isthmus (Central Interceptor)	11/07/2024	3	81001281	Exminster ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					11:30													
Western Isthmus (Central Interceptor)	22/07/2024	3	81001281	Exminster ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:08													
Western Isthmus (Central Interceptor)	9/03/2025	3	2496758	Potter AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:01													
Western Isthmus (Central Interceptor)	12/03/2025	3	2487988	Haverstock RD	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, repair required
					13:41													
Western Isthmus (Central Interceptor)	13/03/2025	3	2598745	Olsen AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:47													
Western Isthmus (Central Interceptor)	14/03/2025	3	2610840	MacLaurin ST	n/a	Rags	No	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	flushed line to clear rags
					11:55													
Western Isthmus (Central Interceptor)	14/03/2025	3	2482586	Bell RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	illegal cross connection reported, concrete removed from line
					8:57													
Western Isthmus (Central Interceptor)	17/07/2024	3	2488454	Margaret AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:22													
Western Isthmus (Central Interceptor)	6/02/2025	3	2493045	Margaret AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:36													
Western Isthmus (Central Interceptor)	19/03/2025	3	2493671	Oakdale RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunging, flushed line, escalated for repair
					17:51													
Western Isthmus (Central Interceptor)	19/03/2025	3	2614625	Whitney ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					11:44													

Western Isthmus (Central Interceptor)	22/07/2024	3	2598559	Hillsborough RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line + heavy flush
					9:49													
Western Isthmus (Central Interceptor)	22/01/2025	3	2492133	Hillsborough RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, escalated for dig up
					19:37													
Western Isthmus (Central Interceptor)	25/01/2025	3	2598559	Hillsborough RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	open job, blockage now resolved
					20:44													
Western Isthmus (Central Interceptor)	21/03/2025	3	2492133	Hillsborough RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					16:52													
Western Isthmus (Central Interceptor)	20/03/2025	3	2610594	Laurel ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, further work required
					10:55													
Western Isthmus (Central Interceptor)	21/03/2025	3	81003193	Windermere CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					8:20													
Western Isthmus (Central Interceptor)	21/03/2025	3	81013031	Milliken AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Root removal
					12:24													
Western Isthmus (Central Interceptor)	9/03/2025	3	2510302	Saltaire ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root cut needed
					11:45													
Western Isthmus (Central Interceptor)	12/04/2025	3	2510302	Saltaire ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, need to return back for root cut
					11:01													
Western Isthmus (Central Interceptor)	4/01/2025	3	2495806	Somerset RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:58													
Western Isthmus (Central Interceptor)	2/09/2024	3	2488531	New Windsor RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:12													
Western Isthmus (Central Interceptor)	24/03/2025	3	2494979	Watling ST	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	root removal
					13:28													
Western Isthmus (Central Interceptor)	25/03/2025	3	2507217	Shoreham ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV
					12:24													

Western Isthmus (Central Interceptor)	25/03/2025	3	2497867	Richardson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:46													
Western Isthmus (Central Interceptor)	24/05/2025	3	2488531	New Windsor RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, cleaned up and disso.
					8:18													
Western Isthmus (Central Interceptor)	26/03/2025	3	81006805	Kingsland AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	heavy flush
					12:36													
Western Isthmus (Central Interceptor)	28/03/2025	3	2597223	Rogan ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:27													
Western Isthmus (Central Interceptor)	3/01/2025	3	2489412	Walters RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:19													
Western Isthmus (Central Interceptor)	18/01/2025	3	2490953	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:01													
Western Isthmus (Central Interceptor)	8/03/2025	3	2490953	Walters RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					9:03													
Western Isthmus (Central Interceptor)	25/04/2025	3	2615277	Margate RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CSE req to remove roots. Escalated.
					11:42													
Western Isthmus (Central Interceptor)	29/04/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	0.25	flushed line, cctv, escalated
					9:49													
Western Isthmus (Central Interceptor)	12/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					14:51													
Western Isthmus (Central Interceptor)	16/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, clean up & disso
					10:43													
Western Isthmus (Central Interceptor)	27/07/2024	3	2400553	Smale ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					12:43													
Western Isthmus (Central Interceptor)	3/08/2024	3	2400553	Smale ST	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, removed roots, dye test
					8:54													

Western Isthmus (Central Interceptor)	2/04/2025	3	2491404	Burch ST	n/a	Fat	No	Construction site	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					20:02													
Western Isthmus (Central Interceptor)	2/04/2025	3	2596960	Balmoral RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:32													
Western Isthmus (Central Interceptor)	5/04/2025	3	2613318	Hillsborough RD	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.25ppm	flushed line
					17:32													
Western Isthmus (Central Interceptor)	6/04/2025	3	2512533	East ST	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:23													
Western Isthmus (Central Interceptor)	24/04/2025	3	2615277	Margate RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removed. Clean up and disso. Needs further work.
					15:22													
Western Isthmus (Central Interceptor)	7/04/2025	3	2606721	Marshall Laing AVE	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					9:01													
Western Isthmus (Central Interceptor)	8/04/2025	3	2604613	Elizabeth ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods
					9:09													
Western Isthmus (Central Interceptor)	17/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Investigations and fixing underway.
					11:40													
Western Isthmus (Central Interceptor)	22/05/2025	3	2615277	Margate RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, clean up and disso. Escalated for identifying blockage after CCTV.
					15:01													
Western Isthmus (Central Interceptor)	31/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed main line, clean up and fence restored.
					5:26													
Western Isthmus (Central Interceptor)	11/04/2025	3	2606536	Dundale AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					9:26													

Western Isthmus (Central Interceptor)	1/06/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, wash down and disso. CCTVd and dig up to expose MH. Invetigation s ongoing.
					16:55													
Western Isthmus (Central Interceptor)	11/04/2025	3	2604048	Sanft AVE	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:17													
Western Isthmus (Central Interceptor)	14/04/2025	3	2602499	Halesowen AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:40													
Western Isthmus (Central Interceptor)	22/04/2025	3	2608393	Hillsborou gh RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line. Wash down and disso.
					9:57													
Western Isthmus (Central Interceptor)	22/04/2025	3	2509713	Target ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, root removed, CCTV, Vaccuum and disso.
					8:39													
Western Isthmus (Central Interceptor)	23/04/2025	3	2488985	Cambrai AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Plumber did unblocking. WSL clean up and disso.
					14:25													
Western Isthmus (Central Interceptor)	24/04/2025	3	2494556	Carrington RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed. Wash downa nd disso.
					7:38													
Western Isthmus (Central Interceptor)	24/04/2025	3	2508889	Kimber Hall AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Bypass pump, repair needed.
					22:07													
Western Isthmus (Central Interceptor)	25/04/2025	3	2478137	Beatrix ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					13:43													
Western Isthmus (Central Interceptor)	25/04/2025	3	2496204	Staveley AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no info
					13:10													

Western Isthmus (Central Interceptor)	25/04/2025	3	2599804	Freeland AVE	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Stones on the bench removed. Further CSE required
					15:20													
Western Isthmus (Central Interceptor)	25/04/2025	3	2599811	Ernie Pinches ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					17:35													
Western Isthmus (Central Interceptor)	24/01/2025	3	81015375	Blockhouse Bay RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:24													
Western Isthmus (Central Interceptor)	25/01/2025	3	81015375	Blockhouse Bay RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:36													
Western Isthmus (Central Interceptor)	26/04/2025	3	2492396	Delphine CL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					19:15													
Western Isthmus (Central Interceptor)	13/10/2024	3	2497133	Dean ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE for rootcut
					14:26													
Western Isthmus (Central Interceptor)	18/10/2024	3	2489993	Dean ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	repeat overflows here, flushed line
					11:28													
Western Isthmus (Central Interceptor)	7/11/2024	3	2595678	Dean ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed
					15:55													
Western Isthmus (Central Interceptor)	25/09/2024	3	2497302	Huia RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:14													
Western Isthmus (Central Interceptor)	27/09/2024	3	2491595	Huia RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv requested
					8:57													
Western Isthmus (Central Interceptor)	1/05/2025	3	2603626	Newcastle TCE	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	Not tested	Flushed, cleaned and disso. Further works planned.
					12:34													
Western Isthmus (Central Interceptor)	17/10/2024	3	2459592	Roseman AVE	n/a	Unknown	Yes	On property	L2	Local	Lake/basin /pond	yes	no	no	no	n/a uncontrolled	No info.	further investigation requested
					10:42													

Western Isthmus (Central Interceptor)	22/10/2024	3	2564230	Roseman AVE	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	flushed line
					14:22													
Western Isthmus (Central Interceptor)	1/05/2025	3	2599846	Huntingtree AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:14													
Western Isthmus (Central Interceptor)	2/05/2025	3	2490424	School RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Investigations underway.
					12:53													
Western Isthmus (Central Interceptor)	2/05/2025	3	2493732	New North RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	No info.
					12:57													
Western Isthmus (Central Interceptor)	2/05/2025	3	2593473	Grange RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removed, flushed, clean up and disso.
					13:01													
Western Isthmus (Central Interceptor)	2/05/2025	3	2499915	Hasbury AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:06													
Western Isthmus (Central Interceptor)	2/05/2025	3	2451380	Skipper AVE	n/a	Roots	No	Road/footpath	L2	Local	SW network	yes	no	yes	n/a uncontrolled	Not tested	Removed roots, flushed. Escalated for heavy flushing and CCTV.	
					17:01													
Western Isthmus (Central Interceptor)	3/05/2025	3	2605989	Mount Albert RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					13:23													
Western Isthmus (Central Interceptor)	4/05/2025	3	2493129	Belfast ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					11:32													
Western Isthmus (Central Interceptor)	4/05/2025	3	2494878	Fairview RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed rocks. Cleaned up and disso.
					11:55													
Western Isthmus (Central Interceptor)	5/05/2025	3	2515660	Himikera AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					14:43													

Western Isthmus (Central Interceptor)	5/05/2025	3	2483802	Blockhouse Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger. Cleaned up and disso.
					10:39													
Western Isthmus (Central Interceptor)	7/05/2025	3	2492185	Mount Albert RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Tomo forming. Further works needed.
					12:55													
Western Isthmus (Central Interceptor)	4/01/2025	3	2602575	Knight AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:24													
Western Isthmus (Central Interceptor)	14/04/2025	3	2602575	Knight AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:53													
Western Isthmus (Central Interceptor)	12/05/2025	3	2597613	Acton PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:09													
Western Isthmus (Central Interceptor)	26/06/2025	3	2597613	Acton PL	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed from IP, washdown and disso.
					9:48													
Western Isthmus (Central Interceptor)	10/05/2025	3	2498105	Exminster ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flshed line, cleaned up and disso.
					18:49													
Western Isthmus (Central Interceptor)	5/07/2024	3	2498211	Moreland RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:04													
Western Isthmus (Central Interceptor)	31/03/2025	3	2498211	Moreland RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:20													
Western Isthmus (Central Interceptor)	10/05/2025	3	2489009	Sandringham RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					21:20													
Western Isthmus (Central Interceptor)	18/01/2025	3	2594598	Wrights SPUR	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:32													
Western Isthmus (Central Interceptor)	11/05/2025	3	2613282	Mount Royal AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:12													

Western Isthmus (Central Interceptor)	3/02/2025	3	2594598	Wrights SPUR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:10													
Western Isthmus (Central Interceptor)	11/05/2025	3	2489009	Haverstock RD	n/a	Rags	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					7:43													
Western Isthmus (Central Interceptor)	12/05/2025	3	2480237	Roberton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Clean up escalated for day time.
					15:22													
Western Isthmus (Central Interceptor)	13/05/2025	3	2497926	Olsen AVE	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted.
					18:24													
Western Isthmus (Central Interceptor)	1/04/2025	3	81002797	Point Chevalier RD	n/a	Fat	Yes	Reserve/park	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	Oppm	flushed line
					20:16													
Western Isthmus (Central Interceptor)	22/04/2025	3	2480055	Point Chevalier RD	n/a	Roots	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Roots removal using shovel. Flushed.
					7:03													
Western Isthmus (Central Interceptor)	13/05/2025	3	2923711	Melrose RD	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.25	Flushed line.
					18:36													
Western Isthmus (Central Interceptor)	5/08/2024	3	81001572	Taylor ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV, planned repairs
					15:38													
Western Isthmus (Central Interceptor)	8/12/2024	3	81001572	Taylor ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:49													
Western Isthmus (Central Interceptor)	15/05/2025	3	2592790	Smale ST	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Unblock from GT. Clean up and disso.
					8:45													
Western Isthmus (Central Interceptor)	16/05/2025	3	2453813	Blockhouse Bay RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					7:35													
Western Isthmus (Central Interceptor)	17/05/2025	3	2615121	Hillsborough RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso.
					12:59													

Western Isthmus (Central Interceptor)	18/05/2025	3	2608361	Mount Royal AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed D/S, cleaned up and disso.
					9:48													
Western Isthmus (Central Interceptor)	20/05/2025	3	2489005	Tongariro ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed Gt, clean up and disso.
					11:40													
Western Isthmus (Central Interceptor)	20/08/2024	3	2491018	Mount Albert RD	n/a	Unknown	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, dye test
					15:57													
Western Isthmus (Central Interceptor)	22/08/2024	3	2491018	Mount Albert RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:32													
Western Isthmus (Central Interceptor)	31/12/2024	3	2491018	Mount Albert RD	n/a	Rags	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:10													
Western Isthmus (Central Interceptor)	24/05/2025	3	2497752	New Windsor RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to clear blockage.
					11:44													
Western Isthmus (Central Interceptor)	29/05/2025	3	2510142	Hillsborough RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up and disso.
					10:35													
Western Isthmus (Central Interceptor)	29/05/2025	3	2612681	Anita AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock.
					19:30													
Western Isthmus (Central Interceptor)	31/05/2025	3	2498919	Boundary RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					15:05													
Western Isthmus (Central Interceptor)	29/08/2024	3	2491387	Farrelly AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					13:43													
Western Isthmus (Central Interceptor)	5/05/2025	3	2492544	Farrelly AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					17:35													
Western Isthmus (Central Interceptor)	1/05/2025	3	2496880	John Davis RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from the GT. Needs CCTV to identify if it is a private or public.
					8:59													

Western Isthmus (Central Interceptor)	7/06/2025	3	2404449	Blockhouse Bay RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed mainline to unblock, wash down and disso.
					21:01													
Western Isthmus (Central Interceptor)	19/09/2024	3	2609458	White Swan RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:25													
Western Isthmus (Central Interceptor)	14/10/2024	3	2609458	White Swan RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:08													
Western Isthmus (Central Interceptor)	20/11/2024	3	81158734	White Swan RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, flushed line
					6:32													
Western Isthmus (Central Interceptor)	30/12/2024	3	81158734	White Swan RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:32													
Western Isthmus (Central Interceptor)	12/02/2025	3	81158734	White Swan RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	dig up and repair pipe
					12:25													
Western Isthmus (Central Interceptor)	3/03/2025	3	2609458	White Swan RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:57													
Western Isthmus (Central Interceptor)	25/03/2025	3	81158734	White Swan RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, escalated for repair
					15:08													
Western Isthmus (Central Interceptor)	1/07/2024	3	2611845	John Davis RD	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.5	Flushed line
					13:54													
Western Isthmus (Central Interceptor)	1/05/2025	3	2611845	John Davis RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Clean up and disso. Needs CCTV.
					9:24													
Western Isthmus (Central Interceptor)	10/06/2025	3	2493644	Milton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:53													

Western Isthmus (Central Interceptor)	12/06/2025	3	2499441	Mount Royal AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots, flushed line, clean up and disso. Escalated to CSE roots removal.
					9:36													
Western Isthmus (Central Interceptor)	19/01/2025	3	2497014	Methuen RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:58													
Western Isthmus (Central Interceptor)	24/05/2025	3	2497014	Methuen RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to clear blockage.
					11:05													
Western Isthmus (Central Interceptor)	16/06/2025	3	2401517	Waite AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:05													
Western Isthmus (Central Interceptor)	17/06/2025	3	2507291	Eldon RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated to transmission team.
					8:31													
Western Isthmus (Central Interceptor)	17/06/2025	3	2493862	Peary RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	investigations underway.
					16:21													
Western Isthmus (Central Interceptor)	17/06/2025	3	2493644	Milton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, cleaned up and disso.
					11:47													
Western Isthmus (Central Interceptor)	17/06/2025	3	2596892	Halesowen AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and cut roots of main line.
					14:33													
Western Isthmus (Central Interceptor)	14/06/2025	3	2513184	Ivanhoe RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Partial unblock. Escalated for more investigations.
					10:24													
Western Isthmus (Central Interceptor)	18/06/2025	3	2602161	Jason AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:55													

Western Isthmus (Central Interceptor)	18/06/2025	3	2513184	Ivanhoe RD	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed mainline to unblock, wash down and disso. Escalated for further investigations.
					11:35													
Western Isthmus (Central Interceptor)	19/06/2025	3	2491127	Frost RD	n/a	Unknown	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, disso applied.
					13:16													
Western Isthmus (Central Interceptor)	19/06/2025	3	2496758	Potter AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock. Disso applied.
					11:25													
Western Isthmus (Central Interceptor)	20/06/2025	3	2507366	Great North RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed main line, clean up and disso.
					8:32													
Western Isthmus (Central Interceptor)	20/06/2025	3	2599778	Denny AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:30													
Western Isthmus (Central Interceptor)	24/06/2025	3	2487823	Woodside RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Sink hole identified. Escalated for further investigations.
					13:22													
Western Isthmus (Central Interceptor)	24/06/2025	3	2498262	Dominion RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					19:14													
Western Isthmus (Central Interceptor)	25/06/2025	3	2603835	Arundel ST	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso
					15:54													
Western Isthmus (Central Interceptor)	3/08/2024	3	81002118	Holbrook ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:14													
Western Isthmus (Central Interceptor)	10/05/2025	3	2510089	Holbrook ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					18:07													
Western Isthmus (Central Interceptor)	30/06/2025	3	2586819	View RD	n/a	Unknown	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:17													

Western Isthmus (Central Interceptor)	30/06/2025	3	2488731	Rocky Nook AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed lateral line.
					17:03													
Western Isthmus (Central Interceptor)	8/09/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					2:00													
Western Isthmus (Central Interceptor)	16/09/2024	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	567	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					12:13													
Western Isthmus (Central Interceptor)	14/09/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	250	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:40													
Western Isthmus (Central Interceptor)	2/10/2024	2	732	MH38 Pasadena Ave Sewer Overflow Level	479	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					9:26													
Western Isthmus (Central Interceptor)	2/10/2024	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	71827	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					1:08													
Western Isthmus (Central Interceptor)	2/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	1084	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					6:55													

Western Isthmus (Central Interceptor)	5/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	92	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					1:33													
Western Isthmus (Central Interceptor)	6/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	327	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					7:58													
Western Isthmus (Central Interceptor)	16/09/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:30													
Western Isthmus (Central Interceptor)	8/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	116	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					12:33													
Western Isthmus (Central Interceptor)	9/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	48	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					21:57													

Western Isthmus (Central Interceptor)	11/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	18	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					3:16													
Western Isthmus (Central Interceptor)	17/09/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	90	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:10													
Western Isthmus (Central Interceptor)	13/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	123	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					7:17													
Western Isthmus (Central Interceptor)	20/09/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	470	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:05													
Western Isthmus (Central Interceptor)	26/10/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	244	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					5:22													
Western Isthmus (Central Interceptor)	23/09/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	50	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:00													

Western Isthmus (Central Interceptor)	15/11/2024	2	732	MH38 Pasadena Ave Sewer Overflow Level	6	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					2:25													
Western Isthmus (Central Interceptor)	14/11/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	714	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					17:10													
Western Isthmus (Central Interceptor)	19/11/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	32	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					22:52													
Western Isthmus (Central Interceptor)	21/11/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	120	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					8:59													
Western Isthmus (Central Interceptor)	21/11/2024	2	732	MH38 Pasadena Ave Sewer Overflow Level	256442	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					20:31													
Western Isthmus (Central Interceptor)	2/10/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	680	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:25													

Western Isthmus (Central Interceptor)	29/11/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	797	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					20:58													
Western Isthmus (Central Interceptor)	6/12/2024	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	16930	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					19:58													
Western Isthmus (Central Interceptor)	9/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	136	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					7:35													
Western Isthmus (Central Interceptor)	5/10/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:35													
Western Isthmus (Central Interceptor)	11/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	282	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					7:11													
Western Isthmus (Central Interceptor)	6/10/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	100	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:30													

Western Isthmus (Central Interceptor)	16/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	135	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					0:43													
Western Isthmus (Central Interceptor)	6/10/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:05													
Western Isthmus (Central Interceptor)	20/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	38	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					6:27													
Western Isthmus (Central Interceptor)	22/12/2024	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	5820	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					21:44													
Western Isthmus (Central Interceptor)	22/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	49	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					20:17													
Western Isthmus (Central Interceptor)	9/10/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:30													

Western Isthmus (Central Interceptor)	25/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	67	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					14:27													
Western Isthmus (Central Interceptor)	28/12/2024	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	10860	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					22:38													
Western Isthmus (Central Interceptor)	30/12/2024	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	10	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					8:35													
Western Isthmus (Central Interceptor)	3/01/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	101	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					12:41													
Western Isthmus (Central Interceptor)	8/01/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	12685	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					23:32													
Western Isthmus (Central Interceptor)	13/10/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:45													

Western Isthmus (Central Interceptor)	21/01/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	39	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					0:19													
Western Isthmus (Central Interceptor)	21/01/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	13204	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					21:44													
Western Isthmus (Central Interceptor)	25/01/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	232	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					6:32													
Western Isthmus (Central Interceptor)	5/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	950	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					19:06													
Western Isthmus (Central Interceptor)	8/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	24	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					20:32													
Western Isthmus (Central Interceptor)	10/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	4912	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
					11:45													

Western Isthmus (Central Interceptor)	16/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	1206	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	21/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	1597	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	26/02/2025	2	739	Branch 8 Mt Albert MH7/Overflow Burnside Ave Sewer Level	66868	Unknown	Yes	Meola Creek (Rawalpindi)	Unknown	Transmission	Large Waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	26/10/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	160	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	19/03/2025	2	727	Branch 8 Mt Albert MH30/Overflow Haverstock Rd Sewer Overflow Level	141	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	10/11/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.

Western Isthmus (Central Interceptor)	3/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	1336	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					10:19													
Western Isthmus (Central Interceptor)	6/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	55	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					11:44													
Western Isthmus (Central Interceptor)	15/11/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	490	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:15													
Western Isthmus (Central Interceptor)	7/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	213	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					21:12													
Western Isthmus (Central Interceptor)	17/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	1846	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					4:31													

Western Isthmus (Central Interceptor)	21/11/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	70	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:05													
Western Isthmus (Central Interceptor)	26/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	1517	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					20:11													
Western Isthmus (Central Interceptor)	29/04/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	2542	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					6:13													
Western Isthmus (Central Interceptor)	8/05/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	2017	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					4:07													
Western Isthmus (Central Interceptor)	9/12/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	90	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:30													

Western Isthmus (Central Interceptor)	18/05/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	272	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					4:34													
Western Isthmus (Central Interceptor)	26/05/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	35	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					8:44													
Western Isthmus (Central Interceptor)	26/05/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	1173	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					5:07													
Western Isthmus (Central Interceptor)	11/12/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	170	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:05													
Western Isthmus (Central Interceptor)	28/05/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	418	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					7:33													
Western Isthmus (Central Interceptor)	4/06/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	374	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					1:37													

Western Isthmus (Central Interceptor)	3/06/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	2776	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					23:16													
Western Isthmus (Central Interceptor)	16/12/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	70	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:30													
Western Isthmus (Central Interceptor)	8/06/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	8755	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					11:38													
Western Isthmus (Central Interceptor)	8/06/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	592	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					12:56													
Western Isthmus (Central Interceptor)	10/06/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	785	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					7:30													
Western Isthmus (Central Interceptor)	20/12/2024	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:20													

Western Isthmus (Central Interceptor)	19/06/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	142	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					13:09													
Western Isthmus (Central Interceptor)	22/06/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	43	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					21:06													
Western Isthmus (Central Interceptor)	26/06/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	1634	Unknown	Yes	Lower Meola Creek	Unknown	Transmission	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					21:30													
Western Isthmus (Central Interceptor)	26/06/2025	2	727	Branch 8 Mt Albert MH 30/Overflow Haverstock Rd Sewer Overflow Level	2573	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					15:40													
Western Isthmus (Central Interceptor)	31/07/2024	2	1589	153 Whitney Street, Blockhouse Bay - within road reserve	40	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:15													
Western Isthmus (Central Interceptor)	8/09/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	115	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:45													

Western Isthmus (Central Interceptor)	26/12/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	50	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:25													
Western Isthmus (Central Interceptor)	14/09/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	695	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:45													
Western Isthmus (Central Interceptor)	16/09/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	350	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:30													
Western Isthmus (Central Interceptor)	16/01/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	80	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:00													
Western Isthmus (Central Interceptor)	19/09/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	875	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:20													
Western Isthmus (Central Interceptor)	23/09/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	85	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:00													
Western Isthmus (Central Interceptor)	25/01/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	110	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:35													

Western Isthmus (Central Interceptor)	2/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	1005	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:50													
Western Isthmus (Central Interceptor)	2/10/2024	2	146	68 Smale Street, Pt Chev	115	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					21:25													
Western Isthmus (Central Interceptor)	4/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	85	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:10													
Western Isthmus (Central Interceptor)	4/02/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	270	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Western Isthmus (Central Interceptor)	19/03/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:30													
Western Isthmus (Central Interceptor)	6/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	405	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:50													
Western Isthmus (Central Interceptor)	9/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	275	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:30													
Western Isthmus (Central Interceptor)	13/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	110	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:25													

Western Isthmus (Central Interceptor)	14/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	90	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:50													
Western Isthmus (Central Interceptor)	6/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	30	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:50													
Western Isthmus (Central Interceptor)	26/10/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	240	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:25													
Western Isthmus (Central Interceptor)	26/10/2024	2	571	102 Penny Avenue, Mt. Roskil	20	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					17:40													
Western Isthmus (Central Interceptor)	26/10/2024	2	146	68 Smale Street, Pt Chev	15	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					17:30													
Western Isthmus (Central Interceptor)	8/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	80	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:20													
Western Isthmus (Central Interceptor)	15/11/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	750	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:55													
Western Isthmus (Central Interceptor)	20/11/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	30	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:50													

Western Isthmus (Central Interceptor)	21/11/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	85	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:55													
Western Isthmus (Central Interceptor)	30/11/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	305	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:50													
Western Isthmus (Central Interceptor)	9/12/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	570	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:25													
Western Isthmus (Central Interceptor)	9/12/2024	2	146	68 Smale Street, Pt Chev	15	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					19:30													
Western Isthmus (Central Interceptor)	27/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	810	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:20													
Western Isthmus (Central Interceptor)	29/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	350	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:20													
Western Isthmus (Central Interceptor)	20/12/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	40	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:20													
Western Isthmus (Central Interceptor)	23/12/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	55	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:15													

Western Isthmus (Central Interceptor)	2/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	240	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:50													
Western Isthmus (Central Interceptor)	26/12/2024	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	65	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:25													
Western Isthmus (Central Interceptor)	4/01/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	110	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:35													
Western Isthmus (Central Interceptor)	2/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	240	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:30													
Western Isthmus (Central Interceptor)	21/01/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	40	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:15													
Western Isthmus (Central Interceptor)	25/01/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	240	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:30													
Western Isthmus (Central Interceptor)	8/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	750	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:55													

Western Isthmus (Central Interceptor)	17/02/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	30	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:45													
Western Isthmus (Central Interceptor)	4/03/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	25	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Western Isthmus (Central Interceptor)	8/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	70	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:20													
Western Isthmus (Central Interceptor)	19/03/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	140	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:30													
Western Isthmus (Central Interceptor)	3/04/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	1590	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:35													
Western Isthmus (Central Interceptor)	18/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	100	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:35													
Western Isthmus (Central Interceptor)	8/04/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	170	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:10													

Western Isthmus (Central Interceptor)	17/04/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	1205	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:25													
Western Isthmus (Central Interceptor)	29/08/2024	3	N/A	Kingsview Road, Mt Eden	15	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					18:50													
Western Isthmus (Central Interceptor)	2/10/2024	3	N/A	Kingsview Road, Mt Eden	20	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					21:15													
Western Isthmus (Central Interceptor)	18/04/2025	3	N/A	Kingsview Road, Mt Eden	20	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	
					23:15													
Western Isthmus (Central Interceptor)	26/04/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	4120	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:20													
Western Isthmus (Central Interceptor)	26/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	610	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:15													
Western Isthmus (Central Interceptor)	28/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:55													
Western Isthmus (Central Interceptor)	29/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	80	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:35													

Western Isthmus (Central Interceptor)	29/05/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	80	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:35													
Western Isthmus (Central Interceptor)	8/05/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	1855	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:05													
Western Isthmus (Central Interceptor)	18/05/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	320	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:30													
Western Isthmus (Central Interceptor)	4/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	170	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:40													
Western Isthmus (Central Interceptor)	26/05/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	1860	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:00													
Western Isthmus (Central Interceptor)	8/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	2930	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:40													
Western Isthmus (Central Interceptor)	4/06/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	3135	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:10													

Western Isthmus (Central Interceptor)	4/06/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	150	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					13:20													
Western Isthmus (Central Interceptor)	4/06/2025	2	571	102 Penny Avenue, Mt. Roskil	160	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					13:10													
Western Isthmus (Central Interceptor)	4/06/2025	2	146	68 Smale Street, Pt Chev	120	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					13:05													
Western Isthmus (Central Interceptor)	8/06/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	8735	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:35													
Western Isthmus (Central Interceptor)	20/06/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	140	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:05													
Western Isthmus (Central Interceptor)	23/06/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	40	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:05													
Western Isthmus (Central Interceptor)	26/06/2025	2	728	Branch 8 Mt Albert MH31/Haverstock Rd, Sandringham	3190	Unknown	Yes	Meola Creek (Haverstock Road)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:55													
Western Isthmus (Central Interceptor)	27/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:45													

Western Isthmus (Central Interceptor)	28/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	70	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
Whangaparaoa	4/07/2024	3	2548270	Gulf Harbour DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Sucker truck
Whangaparaoa	4/07/2024	3	2447520	Albatross RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
Whangaparaoa	12/07/2024	3	2442910	Amorino DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed line, escalate CCTV
Whangaparaoa	12/07/2024	3	2445137	Kathy TCE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
Whangaparaoa	18/07/2024	3	2546454	Rata RD	n/a	Rags	No	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line
Whangaparaoa	29/07/2024	3	2547567	Durness PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed line, CCTV
Whangaparaoa	7/08/2024	3	2542750	Whangaparaoa RD	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Temporary fix of the pipe with nova coil joint.
Whangaparaoa	16/08/2024	3	2445310	Alec Craig WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rod line
Whangaparaoa	6/09/2024	3	2554921	Hardley AVE	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
Whangaparaoa	7/09/2024	3	2445407	Motutapu AVE	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	repair dislodged joint & removed blockage
Whangaparaoa	9/09/2024	3	2446242	Surf RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv to find dislodgement
Whangaparaoa	11/09/2024	3	2550244	Parkview DR	n/a	Roots	No	Road/footpath	L2	Local	Beach	yes	no	no	yes	n/a uncontrolled	0.1ppm	heavy flush

Whangaparaoa	11/09/2024	3	2446461	Pinecrest DR	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to remove roots
					8:41													
Whangaparaoa	22/09/2024	3	2445444	Alec Craig WAY	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:35													
Whangaparaoa	25/09/2024	3	2554961	Regency Park DR	n/a	Roots	No	On property	L3	Local	Lake/basin /pond	yes	no	no	no	n/a uncontrolled	6	heavy flush, cctv, root removal
					16:19													
Whangaparaoa	2/10/2024	3	2445900	Gulf Harbour DR	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:47													
Whangaparaoa	8/10/2024	3	2547504	Motutapu AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:59													
Whangaparaoa	20/10/2024	3	2541672	Elgin PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	PRIVATE
					14:30													
Whangaparaoa	20/10/2024	3	2443765	Waiora RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	PRIVATE
					16:57													
Whangaparaoa	21/10/2024	3	2443354	Pacific PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					15:24													
Whangaparaoa	2/11/2024	3	2452092	Whangaparaoa RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:54													
Whangaparaoa	7/11/2024	3	2445504	Whangaparaoa RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:59													
Whangaparaoa	8/11/2024	3	2437629	Cochrane AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:33													
Whangaparaoa	16/11/2024	3	2448421	Buccaneer CT	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	removed roots
					13:45													
Whangaparaoa	20/11/2024	3	2448872	Brandon RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no notes
					17:14													
Whangaparaoa	3/12/2024	3	2452943	Layton RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					17:01													
Whangaparaoa	5/12/2024	3	2450993	Barwick PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:59													
Whangaparaoa	7/12/2024	3	2451544	Alec Craig WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse for root removal
					14:21													
Whangaparaoa	7/12/2024	3	2441049	Barwick PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					9:10													

Whangaparaoa	9/12/2024	3	2455108	Laurence ST	n/a	Roots	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					6:36													
Whangaparaoa	13/12/2024	3	2546526	Hobbs RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE for tree removal
					14:03													
Whangaparaoa	12/06/2025	3	2450267	Coralsea WAY	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					18:30													
Whangaparaoa	13/06/2025	3	2459324	Coralsea WAY	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removed, cleaned up and disso. Escalated for CSE roots removal.
					17:02													
Whangaparaoa	15/12/2024	3	2548491	Vipond RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:47													
Whangaparaoa	22/12/2024	3	2437569	Duncansby RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					16:35													
Whangaparaoa	24/12/2024	3	2550422	Matai RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:47													
Whangaparaoa	27/12/2024	3	2550377	Shakespeare RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CSE to remove roots
					19:58													
Whangaparaoa	28/12/2024	3	2454455	Ferry RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush recommended
					16:37													
Whangaparaoa	7/01/2025	3	2449065	Rosario CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:31													
Whangaparaoa	9/01/2025	3	2554918	Shuttleworth PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:47													
Whangaparaoa	9/11/2024	3	2546936	Buccaneer CT	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:11													
Whangaparaoa	14/12/2024	3	2546936	Buccaneer CT	n/a	Fat	Yes	On property	L2	Local	Lake/basin/pond	yes	no	no	no	n/a uncontrolled	0.25ppm	flushed line
					19:07													
Whangaparaoa	6/03/2025	3	2546936	Buccaneer CT	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:47													
Whangaparaoa	4/02/2025	3	2555108	Whangaparaoa RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:43													

Whangaparaoa	11/02/2025	3	2555332	Astrolabe PL	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					11:29														
Whangaparaoa	19/02/2025	3	2557536	Wade River RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CCTV, escalated for repair
					8:59														
Whangaparaoa	13/02/2025	3	2553035	Sundown AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:23														
Whangaparaoa	27/07/2024	3	2445469	Commodore CT	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Plunged + flushed line
					8:23														
Whangaparaoa	3/08/2024	3	2445469	Commodore CT	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					16:23														
Whangaparaoa	20/08/2024	3	2445469	Commodore CT	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Escalated for CCTV due to repeat OFs
					12:08														
Whangaparaoa	8/03/2025	3	2440654	Brian CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	pigtail
					9:11														
Whangaparaoa	15/03/2025	3	2444545	Matakatia PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CSE, flushed line
					15:13														
Whangaparaoa	29/03/2025	3	2447188	Brian CRES	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	CSE
					12:58														
Whangaparaoa	29/03/2025	3	2444570	Rimu RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, pig tail
					14:03														
Whangaparaoa	7/04/2025	3	1544718	Laurie ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					9:49														
Whangaparaoa	14/04/2025	3	1543268	Roberts RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	pigtails, escalated for CSE
					10:35														
Whangaparaoa	29/04/2025	3	2449972	Chelverton TCE	n/a	Roots	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	flushed line
					14:23														
Whangaparaoa	8/05/2025	3	2445542	Whangaparaoa RD	n/a	Fat	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	Flushed line.
					9:52														
Whangaparaoa	11/05/2025	3	2550374	Whangaparaoa RD	n/a	Roots	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	Works still underway.
					11:37														
Whangaparaoa	11/05/2025	3	2447520	Birdie PL	n/a	Unknown	No	Road/ footpath	L2	Local	SW network	yes	no	yes	n/a	uncontrolled	No info.	Clean up and disso. Further works underway	
					11:24														

Whangaparaoa	12/05/2025	3	2444731	Waterside CRES	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					22:03													
Whangaparaoa	12/05/2025	3	2545202	Palmgreen CT	n/a	Unknown	No	Road/footpath	L2	Local	SW network	yes	yes	yes	no	n/a uncontrolled	No info.	Flushed line.
					10:26													
Whangaparaoa	13/05/2025	3	2447257	Laurie Southwick PDE	n/a	Power Failure	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					0:51													
Whangaparaoa	16/05/2025	3	2445994	Ferry RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flshed, clean up and disso.
					21:51													
Whangaparaoa	21/05/2025	3	2452057	Admiralty RISE	n/a	Fat	No	Road/footpath	L2	Local	Lake/basin/pond	yes	yes	no	no	n/a uncontrolled	0	Flushed, cleaned up and disso.
					7:08													
Whangaparaoa	21/06/2025	3	2546440	Brian CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse to remove roots
					9:18													
Whangaparaoa	22/06/2025	3	2550210	Brian CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse to remove roots
					16:45													
Whangaparaoa	24/05/2025	3	2545202	Rata RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:52													
Whangaparaoa	30/05/2025	3	2550376	Castaway PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					10:35													
Whangaparaoa	31/05/2025	3	2541878	Totara RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked using plunger from GT, washed down and disso.
					13:05													
Whangaparaoa	2/12/2024	3	2553296	Walton ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:17													
Whangaparaoa	3/06/2025	3	2437586	Rimu RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots using pigtail, wash down and disso.
					7:36													
Whangaparaoa	4/06/2025	3	2548833	Midshipman CT	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					11:51													
Whangaparaoa	29/08/2024	3	2445236	Waiora RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pig-tail, flushed line
					11:31													

Whangaparao a	11/03/2025	3	2445236	Waiora RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:52														
Whangaparao a	12/04/2025	3	2445236	Waiora RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					12:54														
Whangaparao a	24/10/2024	3	2540683	Elgin PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					7:28														
Whangaparao a	21/03/2025	3	2541672	Elgin PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, root removal
					19:38														
Whangaparao a	20/06/2025	3	2545095	McKenzie AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Cleaned up and disso.
					16:28														
Whangaparao a	21/11/2024	3	2453018	Wade River RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CCTV
					8:56														
Whangaparao a	28/11/2024	3	2455885	Wade River RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line, CCTV, escalated
					14:53														
Whangaparao a	25/06/2025	3	2449103	Pinecrest DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed from IP, cleaned up and disso. Escalated for CCTV.
					11:13														
Whangaparao a	26/08/2024	3	2551592	Sundown AVE	n/a	Fat	Yes	On property	L3	Local	Beach	yes	no	no	yes	n/a	uncontrolled	No info.	Flushed line, sucker truck, CCTV
					12:16														
Whangaparao a	30/06/2025	3	1544643	Beach RD	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	CSE to remove roots and flushed.
					19:02														
Whau River	10/08/2024	3	2410329	Avonleigh RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line, new WO for repairs + CCTV
					10:21														
Whau River	18/09/2024	3	2410329	Avonleigh RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					10:45														
Whau River	20/01/2025	3	81007704	Coniston AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					10:18														
Whau River	31/01/2025	3	81007704	Coniston AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	heavy flush
					8:36														

Whau River	7/07/2024	3	2596261	Keats PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed concrete, flushed line
					14:22													
Whau River	11/07/2024	3	2405203	Glucina PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:54													
Whau River	4/07/2024	3	2514546	Gardner AVE	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					6:14													
Whau River	8/10/2024	3	2514546	Gardner AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					15:48													
Whau River	16/07/2024	3	2420890	Great North RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:41													
Whau River	18/07/2024	3	81158292	Tiroroa AVE	n/a	Foreign Object	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked line
					17:04													
Whau River	28/12/2024	3	2410579	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger
					17:14													
Whau River	29/12/2024	3	2404959	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rods
					9:06													
Whau River	22/07/2024	3	2523431	Tomo ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush, CCTV
					12:27													
Whau River	24/07/2024	3	2483504	Te Wiata PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for repairs
					16:00													
Whau River	25/07/2024	3	2510651	Castleford ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:18													
Whau River	26/07/2024	3	2478991	Rosebank RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:07													
Whau River	2/04/2025	3	1401590	Nile RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:48													
Whau River	15/07/2024	3	2596472	Orchard ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line from MH
					10:29													
Whau River	8/01/2025	3	2590577	Orchard ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush recommended
					10:12													
Whau River	31/07/2024	3	2521804	Beazley PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line,
					14:38													

Whau River	6/08/2024	3	2405067	Great North RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					19:34											uncontrolled		
Whau River	10/09/2024	3	2405103	Ingleby PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, cse, fat & rags removed
					11:13											uncontrolled		
Whau River	14/09/2024	3	2408889	Ingleby PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:08											uncontrolled		
Whau River	13/08/2024	3	2405198	Harmel RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:27											uncontrolled		
Whau River	20/08/2024	3	2410346	Culperry RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV
					13:08											uncontrolled		
Whau River	23/02/2025	3	2411937	Avonleigh RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:17											uncontrolled		
Whau River	22/08/2024	3	81158403	Tomo ST	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CSE
					8:20											uncontrolled		
Whau River	22/08/2024	3	2408743	Te Atatu RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Rod line, CCTV
					8:37											uncontrolled		
Whau River	25/08/2024	3	81005226	Glendene AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					10:53											uncontrolled		
Whau River	15/12/2024	3	2414384	Kuaka PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:56											uncontrolled		
Whau River	12/02/2025	3	2414384	Kuaka PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:56											uncontrolled		
Whau River	27/08/2024	3	2594002	Connaught ST	n/a	Foreign Object	No	On property	L2	Local	SW network	no	no	yes	no	n/a	0.5	Unblocked line, removed roots
					7:41											uncontrolled		
Whau River	27/08/2024	3	2404262	Albert RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					9:33											uncontrolled		
Whau River	29/08/2024	3	2488041	Armagh RD	n/a	Unknown	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					15:20											uncontrolled		
Whau River	20/03/2025	3	2414385	Kuaka PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:30											uncontrolled		
Whau River	2/09/2024	3	2405324	Titirangi RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:17											uncontrolled		
Whau River	3/09/2024	3	2486179	Heaphy ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:34											uncontrolled		

Whau River	10/09/2024	3	2411018	Golf RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:05											uncontrolled		
Whau River	11/09/2024	3	2410573	Portage RD	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, flushed line
					11:33											uncontrolled		
Whau River	13/09/2024	3	2411688	Queen Mary AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pig tails
					7:23											uncontrolled		
Whau River	14/04/2025	3	1405916	Godley RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:40											uncontrolled		
Whau River	26/07/2024	3	2517136	Park RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					19:25											uncontrolled		
Whau River	27/01/2025	3	2517136	Park RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					18:33											uncontrolled		
Whau River	18/09/2024	3	2410276	St Leonards RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:13											uncontrolled		
Whau River	24/09/2024	3	2487680	Rosebank RD	n/a	Rags	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					14:12											uncontrolled		
Whau River	25/09/2024	3	2409940	Titirangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:21											uncontrolled		
Whau River	2/08/2024	3	2509182	Tirimoana RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, escalated for root removal
					7:41											uncontrolled		
Whau River	27/09/2024	3	2484630	Maple ST	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a	0	clear heavy fat
					13:34											uncontrolled		
Whau River	27/09/2024	3	2405173	Archibald RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					15:30											uncontrolled		
Whau River	21/08/2024	3	2509182	Tirimoana RD	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line
					13:17											uncontrolled		
Whau River	28/09/2024	3	2595043	Mitchell ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:37											uncontrolled		
Whau River	30/09/2024	3	2589571	Kinross ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:33											uncontrolled		
Whau River	1/10/2024	3	1466188	Roberts RD	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:20											uncontrolled		
Whau River	5/10/2024	3	2507516	Tomo ST	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	CCTV, fault repaired
					16:18											uncontrolled		

Whau River	8/10/2024	3	2516702	Titirangi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, rootcut
					14:04													
Whau River	11/12/2024	3	2597352	Ulster RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:19													
Whau River	9/10/2024	3	2510325	West Coast RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:50													
Whau River	2/01/2025	3	2593413	Ulster RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, repair required
					6:12													
Whau River	8/01/2025	3	2593413	Ulster RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, pipe repairs requested
					12:26													
Whau River	11/10/2024	3	2525095	Portage RD	n/a	Broken pipe	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, cctv
					19:23													
Whau River	5/10/2024	3	2399342	Riversdale RD	n/a	Fat	Yes	Retail/commercial/public	L2	Local	Stream	yes	yes	no	no	n/a	0	T2 EOP
					10:25													
Whau River	9/10/2024	3	2399342	Riversdale RD	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a	No info.	repeat overflows here. Ammonia D/S also checked.
					11:20													
Whau River	13/10/2024	3	2399342	Riversdale RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					7:50													
Whau River	13/05/2025	3	2405057	Kiernan PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Heavy flush
					13:57													
Whau River	10/06/2025	3	2405057	Kiernan PL	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTVd, escalated to fix broken pipe.
					13:29													
Whau River	18/10/2024	3	2410037	Hutchinson AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	root removal
					8:09													
Whau River	18/10/2024	3	2509356	Great North RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					8:39													
Whau River	18/10/2024	3	2508022	Islington AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line.
					9:43													
Whau River	30/07/2024	3	2404925	Delta AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					20:15													

Whau River	29/11/2024	3	2410801	Butterworth DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:08											n/a		
Whau River	4/12/2024	3	2405211	Portage RD	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					12:38											n/a		
Whau River	9/11/2024	3	2416688	McLeod RD	n/a	Rubbish	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	CCTV, flushed line, rubbish removed
					13:39											n/a		
Whau River	5/12/2024	3	2517668	Cornwall ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, cse to remove debris
					8:52											n/a		
Whau River	8/02/2025	3	2416688	McLeod RD	n/a	Fat	Yes	Reserve/park	L3	Local	SW network	yes	no	yes	no	n/a	3ppm	flushed line
					13:52											n/a		
Whau River	7/12/2024	3	2404272	Talavera PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					12:31											n/a		
Whau River	8/12/2024	3	2406513	Portage RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:42											n/a		
Whau River	22/08/2024	3	2504005	Kenley PL	n/a	Unknown	Yes	On property	L3	Local	Estuary	yes	no	no	no	n/a	6	Flushed line
					13:32											n/a		
Whau River	21/12/2024	3	2589418	Kenley PL	n/a	Unknown	Yes	Reserve/park	L3	Local	Stream	yes	yes	no	no	n/a	6	flushed line
					17:18											n/a		
Whau River	21/01/2025	3	2589418	Kenley PL	n/a	Unknown	Yes	Road/footpath	L3	Local	Stream	yes	yes	no	no	n/a	6	flushed line
					13:30											n/a		
Whau River	11/12/2024	3	2411254	Hutchinson AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:41											n/a		
Whau River	16/12/2024	3	2400746	Avondale RD	n/a	Silts	No	On property	L2	Local	Beach	yes	no	no	yes	n/a	No info.	flushed line
					6:46											n/a		
Whau River	16/12/2024	3	2590576	Taramea ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:42											n/a		
Whau River	6/01/2025	3	2596482	Maple ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:36											n/a		
Whau River	23/12/2024	3	2411450	Hutchinson AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:31											n/a		
Whau River	25/12/2024	3	2413129	Hepburn RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, cctv
					8:32											n/a		

Whau River	29/12/2024	3	2488425	Connell ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, bypass pump
					8:45													
Whau River	29/12/2024	3	2531970	Archibald RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					12:18													
Whau River	30/12/2024	3	2410777	Riverview RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					22:42													
Whau River	31/12/2024	3	2423341	Reid RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					22:07													
Whau River	3/01/2025	3	2517518	Caspian CL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:21													
Whau River	9/04/2025	3	1470228	Merchant AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:23													
Whau River	9/01/2025	3	81007173	Farquhar RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunger, CCTV
					7:53													
Whau River	11/01/2025	3	81007763	Glendene AVE	n/a	Rags	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	1-3.5ppm	pig tail, heavy flush
					18:06													
Whau River	13/01/2025	3	2588816	Tony Segedin DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, suction for cleanup requested
					15:00													
Whau River	13/01/2025	3	2412601	Bancroft CRES	n/a	Rubbish	No	Retail/commercial/public	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.5ppm	flushed line
					14:38													
Whau River	20/01/2025	3	2587421	Rosebank RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:27													
Whau River	20/01/2025	3	2404060	Metric PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:53													
Whau River	23/01/2025	3	2406955	Cron AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush and CCTV requested
					20:19													
Whau River	28/01/2025	3	2481135	Avondale RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:01													
Whau River	28/01/2025	3	2408584	Akatea RD	n/a	Roots	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	heavy flush
					11:20													
Whau River	29/01/2025	3	2516582	Elizabeth AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock
					23:00													

Whau River	30/01/2025	3	2520071	Rua RD	n/a	Fat	No	Reserve/ park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:37											n/a	uncontroll ed	
Whau River	31/01/2025	3	2596482	Coronet PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:18											n/a	uncontroll ed	
Whau River	3/02/2025	3	2506933	Meadow CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:05											n/a	uncontroll ed	
Whau River	4/02/2025	3	2511938	Thornlow ST	n/a	Roots	No	On property	L3	Local	SW network	no	no	yes	no	n/a	3ppm	rods, CSE to remove roots
					19:54											n/a	uncontroll ed	
Whau River	5/02/2025	3	2507255	Thornlow ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					7:59											n/a	uncontroll ed	
Whau River	5/02/2025	3	2405113	Cron AVE	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv requested, No OF Check?
					10:35											n/a	uncontroll ed	
Whau River	7/02/2025	3	81007845	Titirangi RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:31											n/a	uncontroll ed	
Whau River	13/02/2025	3	2489934	Waterton PL	n/a	Roots	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:20											n/a	uncontroll ed	
Whau River	19/02/2025	3	2512578	Tiroroa AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:51											n/a	uncontroll ed	
Whau River	20/02/2025	3	2405311	Kelwyn RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	removed items
					13:40											n/a	uncontroll ed	
Whau River	24/02/2025	3	2522499	Godley RD	n/a	Roots	No	Retail/ commercial/ public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CSE to remove roots
					22:05											n/a	uncontroll ed	
Whau River	26/02/2025	3	2485678	Rosebank RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					17:43											n/a	uncontroll ed	
Whau River	3/03/2025	3	81001846	Bolton ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, escalated for repair
					19:59											n/a	uncontroll ed	
Whau River	8/10/2024	3	2597076	Maple ST	n/a	Unknown	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					17:22											n/a	uncontroll ed	
Whau River	5/02/2025	3	2484630	Maple ST	n/a	Unknown	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:34											n/a	uncontroll ed	
Whau River	10/03/2025	3	2405018	Blue Spur WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					13:32											n/a	uncontroll ed	

Whau River	10/03/2025	3	2507168	Hill CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					21:28											uncontrolled		
Whau River	25/08/2024	3	2537798	Kelman RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV
					9:14											uncontrolled		
Whau River	5/11/2024	3	2410284	Kelman RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, dig up & repair
					8:03											uncontrolled		
Whau River	12/03/2025	3	2479640	Fremlin PL	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	bypass pump, flushed line, repair needed
					16:04											uncontrolled		
Whau River	11/10/2024	3	2405522	Parker AVE	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	further investigation required
					16:51											uncontrolled		
Whau River	20/04/2025	3	2413424	Parker AVE	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	repair dislodged MH chamber from landslide
					16:57											uncontrolled		
Whau River	14/05/2025	3	2413424	Parker AVE	n/a	Unknown	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a	Not tested	Flushed, cleaned up and disso. Escalated to CCTV as repeat issue.
					22:10											uncontrolled		
Whau River	14/03/2025	3	2520454	Tiroroa AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv, repair hole and dislodged pipe
					7:06											uncontrolled		
Whau River	15/03/2025	3	81010605	Beaubank RD	n/a	Broken pipe	No	On property	L3	Local	SW network	no	no	yes	no	n/a	6	CSE, bypass pump, more work required
					10:16											uncontrolled		
Whau River	15/03/2025	3	2405107	Queen Mary AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pigtail
					14:39											uncontrolled		
Whau River	17/03/2025	3	2414385	Queen Mary AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:15											uncontrolled		
Whau River	17/03/2025	3	2523398	Jaemont AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					18:26											uncontrolled		
Whau River	19/03/2025	3	81005830	Northall RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:27											uncontrolled		

Whau River	20/03/2025	3	2507480	Barrys RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:32											uncontrolled		
Whau River	18/05/2025	3	2508025	Cutler ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned & disso.
					10:45											uncontrolled		
Whau River	23/03/2025	3	81156972	Stottholm RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:10											uncontrolled		
Whau River	24/03/2025	3	2409898	Vanguard RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:57											uncontrolled		
Whau River	25/03/2025	3	2405448	Manhattan HTS	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:41											uncontrolled		
Whau River	28/03/2025	3	2510866	Butterworth DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					16:24											uncontrolled		
Whau River	29/03/2025	3	2596578	Bolton ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CSE
					14:16											uncontrolled		
Whau River	29/03/2025	3	2411498	Glen Marine PDE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:46											uncontrolled		
Whau River	29/03/2025	3	2454095	Sheridan DR	n/a	Roots	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a	No info.	flushed line, CSE
					19:25											uncontrolled		
Whau River	30/03/2025	3	2517546	Gardner AVE	n/a	Unknown	No	On property	L3	Local	Stream	no	yes	no	no	n/a	3ppm	flushed line
					15:29											uncontrolled		
Whau River	1/04/2025	3	2516108	Farquhar RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					15:43											uncontrolled		
Whau River	2/04/2025	3	2508487	Godley RD	n/a	Fat	No	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					15:11											uncontrolled		
Whau River	20/01/2025	3	2405108	Arawa ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:14											uncontrolled		
Whau River	18/05/2025	3	2423308	Arawa ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					9:29											uncontrolled		
Whau River	13/04/2025	3	1403939	West Coast RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, pipe repair
					12:33											uncontrolled		
Whau River	17/04/2025	3	1510466	Nui Mana PL	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:19											uncontrolled		
Whau River	6/08/2024	3	2411002	Great North RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, pulled out roots
					11:11											uncontrolled		

Whau River	13/04/2025	3	2507256	Great North RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:56													
Whau River	22/04/2025	3	2516553	Great North RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed GT, wash down and disso.
					8:57													
Whau River	22/04/2025	3	2408932	Patts AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleanup and disso
					9:53													
Whau River	23/04/2025	3	2414347	Tiroroa AVE	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	damaged pipe fixed with two Gibaults
					9:52													
Whau River	24/04/2025	3	2488419	Donovan ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Further investigations needed to rule out broken pipe.
					9:50													
Whau River	26/04/2025	3	2405015	Lydford PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					12:42													
Whau River	26/04/2025	3	1402701	De Val DR	n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso. Escalation for CCTV survey.
					15:04													
Whau River	28/04/2025	3	1406656	Golf RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleanup and disso.
					21:24													
Whau River	29/04/2025	3	2410325	Happeace LN	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:53													
Whau River	3/05/2025	3	2517127	Parker AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:05													
Whau River	3/05/2025	3	2510464	Golf RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed.
					16:21													
Whau River	5/05/2025	3	2405270	Sarona AVE	n/a	Unknown	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Unblocked, clean up & disso
					15:00													
Whau River	6/05/2025	3	2410815	Willerton AVE	n/a	Rags	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso. Pollution notified to AC.
					18:29													

Whau River	7/05/2025	3	2400008	Canal RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unknown
					18:01											n/a		
Whau River	12/05/2025	3	2595203	Copsey PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso
					14:53											n/a		
Whau River	13/05/2025	3	2486933	Eastdale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					13:45											n/a		
Whau River	13/05/2025	3	2405448	Great North RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CSE to removed roots.
					10:33											n/a		
Whau River	14/05/2025	3	2591169	Lynbrooke AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line. Escalated to CCTVs and dig up required.
					17:19											n/a		
Whau River	1/06/2025	3	2412895	Park RD	n/a	Fat	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					11:45											n/a		
Whau River	15/05/2025	3	2490054	Kinross ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					11:57											n/a		
Whau River	24/12/2024	3	2420106	Delta AVE	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:03											n/a		
Whau River	28/12/2024	3	2420106	Delta AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, CCTV
					13:19											n/a		
Whau River	12/04/2025	3	2405581	Miro ST	n/a	Roots	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					11:15											n/a		
Whau River	4/05/2025	3	2405433	Miro ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Removed roots and flushed.
					11:06											n/a		
Whau River	23/05/2025	3	2490311	Oberon PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					16:11											n/a		
Whau River	29/05/2025	3	1417626	Glen Marine PDE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleared roots with pigtail.
					9:50											n/a		
Whau River	29/05/2025	3	2528389	Craigbank AVE	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					11:46											n/a		
Whau River	29/05/2025	3	2418162	Arawa ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleared roots, clean up and disso.
					12:41											n/a		

Whau River	2/06/2025	3	2480822	Maple ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed mainline to unblock, wash down and disso.
					14:28														
Whau River	23/09/2024	3	2420455	Christina AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					17:45														
Whau River	9/11/2024	3	2510751	Christina AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	pigtail
					13:09														
Whau River	12/01/2025	3	2510751	Christina AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					14:14														
Whau River	12/06/2025	3	2509579	Ava AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CSE to clear roots, cleaned up and disso.
					7:13														
Whau River	13/06/2025	3	2553742	Vanguard RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Jetted, unblocked, cleaned and disso.
					11:22														
Whau River	13/08/2024	3	2410242	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line several times
					9:06														
Whau River	15/06/2025	3	2517145	Hill CRES	n/a	Rags	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	uncontrolled	No info.	Flushed, cleaned up and disso.
					15:23														
Whau River	15/08/2024	3	2410242	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	CCTV, flushed line
					13:16														
Whau River	21/11/2024	3	2410242	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	plunge
					16:23														
Whau River	25/11/2024	3	2410242	Butterworth DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					9:13														
Whau River	1/07/2024	3	2484371	Lynbrooke AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	Flushed line
					12:34														
Whau River	21/06/2025	3	2482095	Lynbrooke AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					13:42														
Whau River	21/06/2025	3	2597392	Lynbrooke AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	uncontrolled	No info.	flushed line
					22:47														

Whau River	23/06/2025	3	2405583	Kohekohe ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked GT, cleaned up.
					18:09													
Whau River	1/04/2025	3	81001487	Ash ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clear GT blockage
					13:14													
Whau River	10/07/2024	3	2592948	Wairau AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line several times
					11:01													
Whau River	24/06/2025	3	2509356	Great North RD	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line, wash down and disso.
					16:14													
Whau River	14/03/2025	3	2598788	Wairau AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:45													
Whau River	25/06/2025	3	2411776	Hilling ST	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cse to remove roots, escalated for CCTV.
					10:34													
Whau River	30/06/2025	3	2404773	Riverview RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, washdown and disso.
					12:06													

Table D-2 All WWOs for 2024-25

Catchment	Date	EOP Type	Asset ID/ Facility Code/ Compkey2	Asset Name/ Address	Start time	Duration (mins)	Cause	Repeat (y/n)	Immediate Receiving Env	Pollution Level	Network	Pollution RE	Risk to public	Risk of stream contam	Risk of SW contam	Contam risk to beach/rec area	Overflow monitoring (y/n)	Ammonia level (ppm)	Prevent re- occurrence
Central Auckland CBD	2/07/2024	3	2590650	Spring ST		n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line uncontrolled
					17:56														
Clarks Beach	2/07/2024	3	2614872	Tahuna Minhinnick DR		n/a	3rd party damage	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Repaired pipe
					1:32														
East Coast Bays	2/07/2024	3	2533042	Kiri PL		n/a	Unknown	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, escalated for CCTV
					15:57														
Pahurehure Inlet	2/07/2024	3	2581181	Christmas RD		n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line uncontrolled
					13:30														
Mangere	1/08/2024	3	2580594	Miller RD		n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line uncontrolled
					13:35														
Upper Tamaki River	28/04/2025	3	2575360	Pakuranga RD		n/a	Roots	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flush line, CCTVd. Removal of roots. Further works req.
					10:58														
Lower Tamaki River	5/06/2025	3	2576964	Pakuranga RD		n/a	Broken pipe	Yes	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked and cleaned up. Pipe repair works needed.
					9:22														
East Coast Bays	10/12/2024	3	2540846	Heathcote RD		n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					19:41														
Western Isthmus (Central Interceptor)	5/07/2024	3	2597564	Don Croot ST		n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Scheduled repair of MH seal
					11:48														
East Coast Bays	19/04/2025	3	2540846	Heathcote RD		n/a	Roots	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flush lines, clean up and disso
					14:12														
East Coast Bays	10/05/2025	3	2540846	Heathcote RD		n/a	Surchargin g	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up and disso.
					10:55														
Cox's Bay	6/07/2024	3	2601969	Clarence ST		n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line uncontrolled
					6:47														
Whau River	9/05/2025	3	2512442	Coniston AVE		n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, cleaned up and disso.
					17:37														
Henderson Creek	4/01/2025	3	2410483	Sturges RD		n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line uncontrolled
					14:20														

Puhinui	28/06/2025	3	2469507	Arbor CL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Escalated for CCTV.
					6:09													
Upper Harbour South	15/07/2024	3	2530260	Telstar PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:31													
Hobson Bay	15/07/2024	3	2490236	Umere CRES	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV to find break
					21:45													
Whau River	7/10/2024	3	2514546	Gardner AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:05													
Henderson Creek	15/07/2024	3	81158099	Kona CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cut & removed roots, flushed line
					10:41													
Weiti	15/07/2024	3	2438324	Agency LN	n/a	Rags	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					14:33													
Whangapara oa	15/07/2024	3	2450609	Hiwi CRES	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					14:37													
Upper Harbour North	15/07/2024	3	2432754	Delisle PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					14:52													
Onehunga	16/07/2024	3	2497822	Houpara ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, sucker truck
					9:31													
Whau River	21/04/2025	3	2423005	Hutchinson AVE	n/a	Surcharging	Yes	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0	Clean up and disso.NH3 test in Creek
					6:50													
Whau River	10/05/2025	3	2528396	Hutchinson AVE	n/a	Surcharging	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	No info.
					16:08													
Henderson Creek	11/06/2025	3	2409119	Matuhi RISE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso.
					17:17													
Upper Harbour South	9/06/2025	3	2427377	Elliott AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					10:08													
Upper Harbour South	16/06/2025	3	2431385	Elliott AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dye tested, clean up and disso.
					23:36													
Long Bay	21/09/2024	3	2435142	Lingham CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal
					11:24													

Upper Harbour South	20/07/2024	3	2541517	Paramu AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					13:26													
Whau River	20/07/2024	3	2491819	Lynbrooke AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					13:46													
Shoal Bay	20/07/2024	3	2541538	Ngataringa RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, removed roots
					15:08													
Puhinui	2/05/2025	3	2574938	Henwood RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					16:52													
Upper Tamaki River	20/07/2024	3	2578182	Gills RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, unblocked line
					8:39													
Onehunga	20/07/2024	3	2604874	Onehunga MALL	n/a	Rags	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked line,CCTV
					20:43													
Upper Tamaki River	20/07/2024	3	2601789	Avenue RD-E	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					20:34													
Henderson Creek	22/04/2025	3	2410511	Derwent CRES	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown, vacuum and disso.
					15:23													
Henderson Creek	10/05/2025	3	2410511	Derwent CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no info.
					8:35													
Western Isthmus (Central Interceptor)	20/07/2024	3	2596559	Parau ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					7:21													
East Coast Bays	10/05/2025	3	2533644	Braemar RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no info.
					15:16													
East Coast Bays	5/06/2025	3	2533644	Braemar RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Backflushed to unblock, washdown and disso.
					11:29													
East Coast Bays	28/06/2025	3	2533644	Braemar RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown, cleanup and disso.
					9:26													
Onehunga	1/09/2024	3	2593231	Athenic AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:53													
Onehunga	3/10/2024	3	2604765	Athenic AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:35													

Onehunga	19/04/2025	3	2593231	Athenic AVE	n/a	Surcharging	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					20:41													
Henderson Creek	23/07/2024	3	81009159	Swanson RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:28													
Mangere	9/05/2025	3	2473323	Deborah PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:36													
Mangere	11/06/2025	3	2473323	Deborah PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					14:31													
Henderson Creek	24/07/2024	3	2516312	Henderson Valley RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					10:32													
Mangere	27/06/2025	3	2473323	Deborah PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and clean up.
					9:40													
Pahurehure Inlet	12/12/2024	3	2478996	Kay RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	wash down
					13:54													
Pahurehure Inlet	1/06/2025	3	2478996	Kay RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso.
					7:42													
Whau River	12/06/2025	3	2531666	Nile RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:01													
Pahurehure Inlet	28/07/2024	3	82787859	Pekeketua LN	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	N/A vacuum system - sucked out WW from pits
					17:18													
East Coast Bays	30/07/2024	3	2437810	Beach RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked from MH
					10:04													
Henderson Creek	30/07/2024	3	2528375	Elkstone PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line several times
					15:48													
Upper Tamaki River	30/07/2024	3	2608426	Rutland RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:06													
Central Auckland CBD	30/07/2024	3	2495918	Stanley ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and backflushed line
					14:50													
Onehunga	31/07/2024	3	2601317	Athenic AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line twice, rods to remove roots
					9:28													

Onehunga	31/07/2024	3	2499164	O'Rorke RD	n/a	Unknown	No	Car park	L2	Local	SW network	yes	no	yes	n/a	1	Flushed line
					15:17										uncontrolled		
Hobson Bay	31/07/2024	3	2594982	Vale RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line, removed roots
					9:04										uncontrolled		
Upper Tamaki River	1/08/2024	3	2471488	East Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					17:21										uncontrolled		
Lower Tamaki River	1/08/2024	3	2488215	Paddington ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					17:01										uncontrolled		
Upper Tamaki River	1/08/2024	3	2611711	Nixon AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					14:23										uncontrolled		
Lower Tamaki River	1/08/2024	3	2593698	Point England RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					13:26										uncontrolled		
Hobson Bay	1/08/2024	3	2509460	Ascot AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Washdown and disinfection.
					9:23										uncontrolled		
Hobson Bay	1/08/2024	3	2592890	Komaru ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					12:38										uncontrolled		
Whau River	1/08/2024	3	2507397	Park RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Removed roots and unblocked line
					9:11										uncontrolled		
Onehunga	1/09/2024	3	81000364	Rangipawa RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Flushed line
					20:44										uncontrolled		
Shoal Bay	9/05/2025	3	2432579	Trelawny PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Cleaned and disso.
					18:53										uncontrolled		
Waiuku	4/06/2025	3	2418157	Queen ST	n/a	Fat	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a	No info. Flushed, cleaned up and disso.
					12:37										uncontrolled		
Waiuku	27/06/2025	3	2418157	Queen ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info. cctv, root removal
					10:18										uncontrolled		
Western Isthmus (Central Interceptor)	19/04/2025	3	2593803	Moa RD	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info. None.
					11:33										uncontrolled		
Western Isthmus (Central Interceptor)	11/06/2025	3	2593803	Moa RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info. Cleaned up and disso.
					9:14										uncontrolled		

Pahurehure Inlet	9/05/2025	3	2476149	Nield RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and reinstatement.
					14:23													
Pahurehure Inlet	4/06/2025	3	2476149	Nield RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for further investigation
					10:41													
Onehunga	10/12/2024	3	81011853	Cardwell ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:26													
Pukekohe	2/07/2024	3	2530026	Reynolds RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:29													
Hobson Bay	15/11/2024	3	2494812	Railway ST	n/a	Silts	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush, cctv
					15:42													
Beachlands Maraetai	27/05/2025	3	2575373	Third View AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					16:08													
Beachlands Maraetai	27/06/2025	3	2573237	Third View AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					15:05													
Lower Tamaki River	19/04/2025	3	2496280	Mount Wellington HWY	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					15:11													
Pahurehure Inlet	16/08/2024	3	2577460	Maich RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					6:39													
Lower Tamaki River	28/04/2025	3	2611429	Mount Wellington HWY	n/a	Rags	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25	Flushed line. Clean up and disso. OF to SW and NH3 test in Creek
					9:24													
Puhinui	17/08/2024	3	2581604	Aronia WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:25													
Western Isthmus (Central Interceptor)	17/08/2024	3	2596595	St Lukes RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:28													
Whangaparaoa	18/08/2024	3	2455109	Palm CV	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rod line, removed roots
					11:19													
Upper Harbour West	18/08/2024	3	2455006	Shelduck WAY	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line removed roots
					18:21													

Mangere	18/08/2024	3	2605536	Station RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, back flushed, heavy flush
					13:51													
Upper Tamaki River	18/08/2024	3	2473111	Bairds RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:21													
Lower Tamaki River	18/08/2024	3	81010686	Maybury ST	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:57													
East Coast Bays	5/06/2025	3	2436345	Castor Bay RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush to unblock.
					7:20													
East Coast Bays	9/06/2025	3	2436345	Castor Bay RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	0	Flushed, cleaned up and disso.
					11:26													
Western Isthmus (Central Interceptor)	19/04/2025	3	2499879	New Windsor RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	none
					9:06													
Western Isthmus (Central Interceptor)	16/07/2024	3	2606941	O'Donnell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:33													
Western Isthmus (Central Interceptor)	1/08/2024	3	2606941	O'Donnell AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Suction truck, back flush
					9:05													
Western Isthmus (Central Interceptor)	19/04/2025	3	2480806	Donegal ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso. Requires repair of MH frames.
					13:59													
Western Isthmus (Central Interceptor)	10/06/2025	3	2480806	Donegal ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Disso applied.
					14:46													
Whau River	21/04/2025	3	2405689	Avonleigh RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Clean up and disso
					13:10													
Upper Harbour South	17/09/2024	3	2425783	Titwai PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:37													
Upper Harbour South	19/04/2025	3	1411212	Titwai PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:19													
Lower Tamaki River	28/08/2024	3	2469890	Dowling PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					17:44													

Whangapara oa	30/08/2024	3	2550114	Admiralty RISE	n/a	Roots	No	Road/ footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrol led	No info.	Flushed line
					11:03													
Upper Tamaki River	30/08/2024	3	2459878	Keppoch CT	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					13:07													
Upper Tamaki River	30/08/2024	3	2607914	Panama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					10:53													
Mangere	30/08/2024	3	2512084	Commissar iat RD	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrol led	0.25	Flushed line
					16:24													
Onehunga	30/08/2024	3	2601199	Onehunga MALL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					13:25													
Warkworth	30/08/2024	3	2548014	Hill ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					14:33													
Upper Harbour North	31/08/2024	3	81011112	Living Stream RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Rig up and repair
					16:32													
East Coast Bays	31/08/2024	3	2444897	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	CCTV, removed roots, escalated for repair new WO
					18:27													
Henderson Creek	31/08/2024	3	2411848	Woodglen RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					17:18													
Henderson Creek	31/08/2024	3	2414047	Edmonton RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					21:24													
Henderson Creek	31/08/2024	3	81008646	Kemp RD	n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Washdown and disinfection.
					12:58													
Henderson Creek	31/08/2024	3	2411753	Cyclarama CRES	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					12:37													
Upper Tamaki River	31/08/2024	3	2400744	Panama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Flushed line
					16:42													
Hobson Bay	31/08/2024	3	2513041	Rangitoto AVE	n/a	Unknown	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrol led	0.25	Flushed line
					15:36													
Hobson Bay	31/08/2024	3	2592267	Dingle RD	n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Washdown and disinfection.
					17:28													
Lower Tamaki River	31/08/2024	3	2485856	Apirana AVE	n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Clean up and disinfection
					7:13													

Western Isthmus (Central Interceptor)	1/09/2024	3	81016037	Miranda ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					10:40													
Western Isthmus (Central Interceptor)	1/09/2024	3	2601158	Dexter AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					14:54													
East Coast Bays	1/09/2024	3	2530499	Park RISE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					22:43													
Shoal Bay	1/09/2024	3	2528732	Porritt AVE	n/a	Rags	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed line
					13:18													
Whau River	1/09/2024	3	2507154	Halcombe PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, pulled roots
					11:30													
Helensville	1/09/2024	3	2557303	Rautawhiri RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:03													
Western Isthmus (Central Interceptor)	19/04/2025	3	2615343	Battersby AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	none.
					8:13													
Western Isthmus (Central Interceptor)	15/05/2025	3	2610247	Battersby AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					11:09													
Whangapara	1/09/2024	3	2553253	Sundown AVE	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:09													
Pahurehure Inlet	1/09/2024	3	2480682	Puriri RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					21:04													
Pahurehure Inlet	1/09/2024	3	2468301	Dreadon RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush
					10:27													
Hobson Bay	1/09/2024	3	81005204	Gowing DR	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, escalated for CCTV
					15:03													
Onehunga	1/09/2024	3	2491369	Normans Hill RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from IP, cut roots
					14:49													
Whau River	19/04/2025	3	2414385	Kuaka PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No work done. No further info
					13:10													
Upper Tamaki River	1/09/2024	3	2462665	Gossamer DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rods, flushed line multiple times
					13:45													

Puhinui	1/09/2024	3	82806161	Park AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:29											n/a	uncontrolled	
Whau River	1/09/2024	3	81008353	Te Atatu RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					11:45											n/a	uncontrolled	
Whau River	1/09/2024	3	2416763	Fairlea RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, CCTV
					12:20											n/a	uncontrolled	
Shoal Bay	3/09/2024	3	2422841	Peregrine PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	escalated for FDEN
					12:03											n/a	uncontrolled	
Pahurehure Inlet	15/11/2024	3	2470755	Maida VALE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					10:45											n/a	uncontrolled	
Lower Tamaki River	11/06/2025	3	2569461	Musick Point RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Jetted to unblock. Heavy flush recommended.
					18:47											n/a	uncontrolled	
Lower Tamaki River	30/07/2024	3	2487373	Whitehaven RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Escalated for further investigation
					10:58											n/a	uncontrolled	
Lower Tamaki River	1/09/2024	3	2487373	Whitehaven RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	CCTV, CSE, remove non-return valve
					17:18											n/a	uncontrolled	
Lower Tamaki River	20/09/2024	3	2487373	Whitehaven RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Washdown and disinfection.
					17:11											n/a	uncontrolled	
Upper Harbour South	27/06/2025	3	2435621	Island Bay RD	n/a	Unknown	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, clean up and disso.
					11:50											n/a	uncontrolled	
Whau River	19/04/2025	3	2407470	Godley RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	0.25	Flush line, clean up and disso
					11:49											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	15/11/2024	3	2599762	Dominion RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	cctv
					15:57											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	15/09/2024	3	2482924	Highbury ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					9:27											n/a	uncontrolled	
Western Isthmus (Central Interceptor)	27/06/2025	3	2599762	Dominion RD	n/a	Surcharging	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Washdown and disinfection.
					10:55											n/a	uncontrolled	

East Coast Bays	15/09/2024	3	1397070	Beacon AVE	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	pipe repair
					16:00													
Upper Tamaki River	15/09/2024	3	2484917	Carousel CRES	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Rods
					11:13													
Mangere	15/09/2024	3	2580899	Kambalda ST	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:16													
Western Isthmus (Central Interceptor)	15/09/2024	3	2399778	Maioiro ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:26													
Upper Tamaki River	15/09/2024	3	2573147	Cantora AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:57													
Long Bay	15/09/2024	3	2543999	Stredwick DR	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:00													
East Coast Bays	17/09/2024	3	2433414	Helvetia DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV, heavy flush
					16:55													
Hobson Bay	17/09/2024	3	2598282	Vause ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:00													
Mangere	20/07/2024	3	2496024	Hans ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:19													
Pukekohe	17/09/2024	3	2530982	Hamlet PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:45													
Lower Tamaki River	17/09/2024	3	2603389	West Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:56													
Mangere	1/09/2024	3	2496024	Hans ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:25													
Henderson Creek	21/09/2024	3	2409215	Newington RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:50													
Whau River	1/08/2024	3	2517136	Park RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:16													
Western Isthmus (Central Interceptor)	18/09/2024	3	2498605	Disraeli ST	n/a	Fat	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:19													
Western Isthmus (Central Interceptor)	18/09/2024	3	2511271	Meola RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root cut, flushed line
					9:52													

Upper Tamaki River	19/04/2025	3	2610105	Trenwith ST	n/a	Broken pipe	Yes	Retail/commercial / public	L2	Local	SW network	yes	no	yes	n/a uncontrolled	0.25	By pass pump, CCTV, fix pipe	
					17:39													
Onehunga	30/04/2025	3	2590704	Wanganella PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					15:13													
Pahurehure Inlet	20/09/2024	3	2579773	Sharland AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:11													
Western Isthmus (Central Interceptor)	20/09/2024	3	2495330	La Veta AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rootcut, cctv
					16:13													
Western Isthmus (Central Interceptor)	20/09/2024	3	2615343	Battersby AVE	n/a	Broken pipe	No	On property	L3	Local	SW network	no	no	yes	no	n/a uncontrolled	3	removed broken pieces of pipe
					12:56													
Upper Tamaki River	20/09/2024	3	1488743	Lovegrove CRES	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:58													
Shoal Bay	21/09/2024	3	2419602	Inkster ST	n/a	Broken pipe	No	Inside property	L2	Local	n/a	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove broken benching and roots
					6:31													
Henderson Creek	10/06/2025	3	2411418	Metcalfe RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	None.
					22:23													
Henderson Creek	21/09/2024	3	2413155	Epping RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:06													
East Coast Bays	21/09/2024	3	2542076	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:41													
Henderson Creek	15/09/2024	3	1353858	Sabot PL	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					22:09													
Hobson Bay	19/04/2025	3	2601827	Tautari ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flush line.
					12:29													
Mangere	17/12/2024	3	2612418	Bell AVE	n/a	Broken pipe	Yes	Reserve/park	L2	Local	SW network	yes	no	yes	no	n/a uncontrolled	No info.	Repair of the broken line completed.
					11:22													
Beachlands Maraetai	3/10/2024	3	2455428	Beachlands RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV requested
					10:00													
Henderson Creek	3/10/2024	3	2405807	Evans RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:14													

Lower Tamaki River	3/10/2024	3	2491494	Rochdale AVE	n/a	Rags	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0	flushed line, removed rags
					10:02													
Shoal Bay	3/10/2024	3	2535669	Harley RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, removed metal and debris from nearby development
					8:45													
Henderson Creek	3/10/2024	3	2517895	Edmonton RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:55													
Cockle Bay	3/10/2024	3	2563134	Uxbridge RD	n/a	Roots	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	0.25	flushed line
					7:18													
Hobson Bay	3/10/2024	3	81014815	Ashwell ST	n/a	3rd party damage	No	Inside property	L3	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Temporary pump set up to deal with concrete blockage. Ongoing FDEN 25516646.
					11:44													
Mangere	3/10/2024	3	2472863	Convair CRES	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					13:13													
Orewa	3/10/2024	3	2448047	Elizabeth ST	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	Flushed line, removed sand & fats
					9:59													
Orewa	3/10/2024	3	2549862	Kensington DR	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:18													
Upper Tamaki River	3/10/2024	3	2576443	Perth ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:53													
Whangapara oa	3/10/2024	3	2448087	Kukuwai AVE	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	concrete removed, flushed line
					18:39													
Upper Harbour North	3/10/2024	3	2529421	Constellation DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed
					14:42													
Henderson Creek	3/10/2024	3	81008861	Parklands AVE	n/a	Broken pipe	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	flushed line, repair dislodged pipe removed fat build up
					18:09													

East Coast Bays	3/10/2024	3	2428502	Weatherly RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:26													
Upper Tamaki River	30/07/2024	3	2575360	Pakuranga RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:53													
Lower Tamaki River	27/04/2025	3	2568904	Pakuranga RD	n/a	Silts	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	jetted, wash down and disso. Further works req.
					17:28													
Henderson Creek	19/04/2025	3	1345354	Universal DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up & disso
					6:35													
Western Isthmus (Central Interceptor)	5/10/2024	3	2485319	Alberton AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					13:01													
Western Isthmus (Central Interceptor)	18/04/2025	3	2495179	View RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:47													
Shoal Bay	1/09/2024	3	2420553	City View TCE	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25	Bypass pump
					9:29													
Whangaparoa	5/10/2024	3	2543954	Surf RD	n/a	Surcharging	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					15:48													
Shoal Bay	21/04/2025	3	2420553	City View TCE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy clean up and disso. Works underway at nearby MH.
					9:50													
Wellsford	5/10/2024	3	2544646	State Highway 1	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:49													
Shoal Bay	9/05/2025	3	2531484	City View TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso. Esalation for heavy flush to remove fats.
					15:29													
Shoal Bay	27/05/2025	3	2420553	City View TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					12:40													
Hobson Bay	6/10/2024	3	2595643	Speight RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:20													

Whau River	7/10/2024	3	2487227	Donovan ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:04													
Western Isthmus (Central Interceptor)	7/10/2024	3	2492154	Fairview RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:13													
Mangere	17/08/2024	3	2472751	Rush PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:14													
Upper Harbour South	9/10/2024	3	2421323	Kia Ora RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:04													
Warkworth	9/05/2025	3	2443835	Elizabeth ST	n/a	Surcharging	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					19:52													
Warkworth	27/05/2025	3	2558623	Elizabeth ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:20													
Warkworth	27/06/2025	3	2444663	Elizabeth ST	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	washdown & disso.
					9:23													
Upper Tamaki River	20/07/2024	3	2399234	Riversdale RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Repaired broken pipe
					9:16													
Whau River	27/10/2024	3	2399342	Riversdale RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	repeat overflows here.
					10:07													
Henderson Creek	14/10/2024	3	2509936	West Coast RD	n/a	ROOTS	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	root removal, cctv
					7:42													
Laingholm	14/10/2024	3	1515782	Takahe RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					10:50													
Upper Tamaki River	17/09/2024	3	2568609	Franich ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:46													
Western Isthmus (Central Interceptor)	30/04/2025	3	2594599	Great North RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	escalated for CSE to remove roots.
					10:25													
Henderson Creek	27/01/2025	3	2412699	Konini RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:21													
Western Isthmus (Central Interceptor)	5/06/2025	3	2486863	Brixton RD	n/a	Unknown	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed multiple times to unblock.
					12:51													
Pahurehure Inlet	19/04/2025	3	2468301	Dreadon RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso
					5:02													

Pahurehure Inlet	5/06/2025	3	2468301	Dreadon RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:11													
Puhinui	28/06/2025	3	2566673	Ferndown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown, cleanup and disso.
					12:13													
Henderson Creek	15/07/2024	3	2408547	Kereru ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					14:28													
Upper Tamaki River	30/07/2024	3	2462566	Bairds RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					8:11													
Upper Harbour North	21/04/2025	3	2524302	Sunnyview RD	n/a	Roots	Yes	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	Not tested	roots removed using pigtail. Clean up and disso.
					14:45													
Shoal Bay	12/12/2024	3	2432243	Rosyth AVE	n/a	Rags	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, dye test
					16:36													
East Coast Bays	9/05/2025	3	2535580	Agincourt ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					13:49													
East Coast Bays	10/05/2025	3	1499052	Agincourt ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:20													
Puhinui	16/11/2024	3	2479865	Kirklow PL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					12:47													
Henderson Creek	2/12/2024	3	81008688	Don Buck RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:53													
Shoal Bay	27/10/2024	3	2422907	Maritime TCE	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:28													
Lower Tamaki River	27/10/2024	3	2487792	Riddell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:24													
Shoal Bay	27/10/2024	3	2426305	Glenfield RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cctv
					15:04													
Puhinui	27/10/2024	3	2557208	Puhinui RD	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Jetted to clear blockage
					14:24													
Shoal Bay	27/10/2024	3	1421971	William Bond ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:21													
Wellsford	27/10/2024	3	2441401	Armitage RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					13:51													

East Coast Bays	10/06/2025	3	2537703	Browns Bay RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Plunger to clear GT. Washdown & Disso applied.
					8:28													
East Coast Bays	26/01/2025	3	2444081	Dalmeny CL	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, cse to remove roots
					18:45													
Henderson Creek	17/09/2024	3	1351369	Universal DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:19													
Upper Tamaki River	19/03/2025	3	2564402	Kentville PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV required
					17:33													
Upper Harbour South	12/05/2025	3	2541111	Contessa DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Nothing done.
					15:26													
Upper Harbour South	5/06/2025	3	2541111	Contessa DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					7:08													
Upper Harbour South	27/06/2025	3	2541111	Contessa DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					10:53													
Lower Tamaki River	5/06/2025	3	2593208	Riverview RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso.
					11:30													
Lower Tamaki River	13/11/2024	3	2506710	Lavas PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					22:54													
Shoal Bay	15/11/2024	3	2528242	Enterprise ST	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Blockage cleared.
					21:20													
Upper Tamaki River	15/11/2024	3	2458859	Burswood DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					15:00													
Mangere	15/11/2024	3	1503880	Rothery RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	hose pull
					20:45													
Pahurehure Inlet	15/11/2024	3	2478893	Mahia RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:37													
East Coast Bays	15/11/2024	3	2431422	Waterloo RD	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Blockage cleared.
					11:02													
Upper Harbour South	9/05/2025	3	2431385	Elliott AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					15:17													
Upper Harbour South	27/06/2025	3	2567344	Elliott AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					14:33													

Upper Harbour South	27/06/2025	3	2567344	Elliott AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, washdown and disso.
					10:41													
East Coast Bays	1/09/2024	3	2425042	Hogans RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					14:29													
Henderson Creek	16/11/2024	3	81007884	Henderson Valley RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, CCTV recommended
					12:31													
East Coast Bays	2/05/2025	3	2435186	Woodstock RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					18:39													
Henderson Creek	16/11/2024	3	2511053	Backhurst GRV	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roots
					12:04													
East Coast Bays	10/05/2025	3	2435186	Woodstock RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					11:36													
East Coast Bays	5/06/2025	3	2435186	Woodstock RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hydro Vac to clean up.
					6:04													
Upper Harbour South	15/09/2024	3	2421295	James ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:44													
Henderson Creek	16/11/2024	3	2518315	Sun PL	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					7:44													
Upper Tamaki River	27/06/2025	3	2461251	Snell PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Disso applied.
					16:10													
Upper Tamaki River	28/06/2025	3	2461251	Snell PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					10:19													
Whau River	27/06/2025	3	2410556	Veronica ST	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:03													
East Coast Bays	28/04/2025	3	2437204	Park RISE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					8:58													
Pahurehure Inlet	18/06/2025	3	2583317	Trimdon ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					15:47													
Pahurehure Inlet	27/06/2025	3	2583317	Trimdon ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and clean up.
					11:36													
Upper Harbour South	16/11/2024	3	2439192	Beach Haven RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:25													
Lower Tamaki River	1/12/2024	3	2597624	Evesham AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:07													

Shoal Bay	10/05/2025	3	2427704	James Evans DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					18:01													
Shoal Bay	6/06/2025	3	2427704	James Evans DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					9:59													
Western Isthmus (Central Interceptor)	30/11/2024	3	2600026	Dominion RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	remove broken piece of pipe causing blockage
					20:15													
Puhinui	30/11/2024	3	2470735	Phoenix PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					20:42													
Upper Tamaki River	1/12/2024	3	2480123	Middlefield DR	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:19													
Upper Harbour South	1/12/2024	3	2426555	Brunton PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:53													
Shoal Bay	1/12/2024	3	2428703	Moore ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:29													
Shoal Bay	3/09/2024	3	2430009	Council TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					11:05													
Whau River	1/12/2024	3	2412895	Park RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	replace crushed pipe section
					18:04													
Upper Harbour North	1/12/2024	3	2547272	Barbados DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, flushed line
					9:19													
Onehunga	15/11/2024	3	2603935	Greenpark RD	n/a	Unknown	Yes	Retail/commercial/public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked line
					15:26													
Whau River	2/12/2024	3	82776968	Golf RD	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV
					7:29													
Central Auckland CBD	9/12/2024	3	2497831	Alberon ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					23:09													
Western Isthmus (Central Interceptor)	15/07/2024	3	2492567	Kirk ST	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:45													
Western Isthmus (Central Interceptor)	6/10/2024	3	2492567	Kirk ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line.
					12:18													

Cox's Bay	10/12/2024	3	81006512	Hakanoa ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, root mats removed.
					9:08													
Henderson Creek	10/12/2024	3	2411985	Colwill RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:07													
East Coast Bays	10/12/2024	3	1375876	Otakau RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:55													
Western Isthmus (Central Interceptor)	10/12/2024	3	2492269	May RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:12													
Western Isthmus (Central Interceptor)	10/12/2024	3	2489639	Fowlds AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up, wash down, remove solids and put down Lyme
					10:28													
Western Isthmus (Central Interceptor)	29/06/2025	3	2489016	Simmonds AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso.
					13:50													
Whangapara oia	12/05/2025	3	2546387	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:10													
Whangapara oia	27/05/2025	3	2546387	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					7:12													
Whangapara oia	5/06/2025	3	2546387	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hydro Vac to clean up.
					8:30													
Whangapara oia	7/06/2025	3	2546387	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Further investigations underway.
					11:46													
Whangapara oia	27/06/2025	3	2443804	Sundown AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no info.
					10:27													
Shoal Bay	12/12/2024	3	2423298	Learmonth AVE	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:13													
East Coast Bays	12/12/2024	3	2533557	Merriefield AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:34													
Pahurehure Inlet	12/12/2024	3	2476028	Rowandale AVE	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	flushed line
					19:47													

Wellsford	1/09/2024	3	2440716	Totara VW	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, replaced MH lid
					10:02													
East Coast Bays	12/12/2024	3	2531539	Otakau RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:01													
Western Isthmus (Central Interceptor)	12/12/2024	3	2606844	May RD	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, remove solids
					12:54													
Henderson Creek	12/12/2024	3	2411605	Matipo RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up, wash down & disinfection
					15:54													
East Coast Bays	12/12/2024	3	2540276	Beach RD	n/a	Surcharging	No	Inside property	L2	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown completed.
					12:11													
Hobson Bay	1/12/2024	3	2490905	Meadowbank RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:45													
Beachlands Maraetai	18/08/2024	3	2569826	Araminta PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:40													
Pukekohe	27/08/2024	3	2531577	Carlton RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, replace MH lid
					20:59													
Pukekohe	6/06/2025	3	2419322	Carlton RD	n/a	Unknown	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblock using combo.
					14:31													
Pahurehure Inlet	16/12/2024	3	2579003	Mahia RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:19													
Hobson Bay	26/04/2025	3	2488547	Corinth ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					16:37													
Western Isthmus (Central Interceptor)	16/12/2024	3	2611267	Frost RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:08													
Upper Tamaki River	16/12/2024	3	2600281	Panama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					16:13													
Upper Harbour South	17/12/2024	3	2528681	Glen Vista PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	pigtails to remove roots
					8:35													
Upper Tamaki River	17/12/2024	3	2458204	Baringa PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:29													
Whangaparaoa	17/12/2024	3	2452441	Kensington TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE, flushed line
					12:55													

Whau River	3/10/2024	3	2596482	Maple ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	heavy flush
					1:30											n/a	uncontrolled	
Whau River	8/10/2024	3	2596482	Maple ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Washdown and disinfection.
					14:41											n/a	uncontrolled	
Lower Tamaki River	17/12/2024	3	2485972	East Coast RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					8:55											n/a	uncontrolled	
East Coast Bays	20/04/2025	3	2425800	Shakespeare RD	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	pigtail to remove rubbish
					19:03											n/a	uncontrolled	
East Coast Bays	15/06/2025	3	2439152	Wyoming AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					11:40											n/a	uncontrolled	
Onehunga	19/04/2025	3	2601837	Bingley AVE	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Clean up, disso
					13:05											n/a	uncontrolled	
Onehunga	22/04/2025	3	2601837	Bingley AVE	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Wash down and disinfected affected area.
					8:11											n/a	uncontrolled	
Upper Tamaki River	30/08/2024	3	2582713	Eric Baker PL	n/a	Foreign Object	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Hook to removed timber
					1:33											n/a	uncontrolled	
Henderson Creek	10/12/2024	3	2409931	Glendale RD	n/a	Unknown	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line
					10:49											n/a	uncontrolled	
Pahurehure Inlet	23/12/2024	3	2477243	Hill RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Pushcam, jetted to clear blockage.
					6:22											n/a	uncontrolled	
Hobson Bay	9/05/2025	3	2607225	Tahapa CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, cleaned up and disso.
					9:40											n/a	uncontrolled	
Shoal Bay	19/04/2025	3	1433086	Onewa RD	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line. Repeated blockges. Stuck rod. CCTV
					8:06											n/a	uncontrolled	
Upper Tamaki River	4/06/2025	3	2458441	Marvon Downs AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Disso applied.
					22:13											n/a	uncontrolled	
Upper Tamaki River	9/06/2025	3	2589190	Marvon Downs AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted, CCTVd, multiple flushes, clean up and disso.
					9:04											n/a	uncontrolled	

Henderson Creek	5/06/2025	3	2409165	Rathgar RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, CCTVd and cleaned up.
					10:44													
Upper Harbour South	23/04/2025	3	2540736	Rosecamp RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and put the popped lid back onto MH
					18:36													
Shoal Bay	4/01/2025	3	2537513	Abbotsford TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:29													
Henderson Creek	4/01/2025	3	81157954	Oratia DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:33													
Shoal Bay	4/01/2025	3	2538673	Hart RD	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	rods, pigtail
					13:53													
East Coast Bays	4/01/2025	3	2423606	Sunnynook RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:23													
Pukekohe	4/01/2025	3	81012834	Belgium ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:14													
Upper Harbour North	30/04/2025	3	2554833	Ballyboe PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					22:17													
Upper Harbour North	10/05/2025	3	2437319	Ballyboe PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					7:37													
Upper Harbour North	4/06/2025	3	2554833	Ballyboe PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					21:24													
Upper Harbour North	6/06/2025	3	2561340	Ballyboe PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed.
					16:46													
Mangere	15/07/2024	3	2577584	Ferguson ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:43													
Mangere	30/07/2024	3	2577584	Ferguson ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:54													
Whau River	20/07/2024	3	2414706	Merchant AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:21													
Whau River	18/04/2025	3	1470228	Merchant AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:16													
Omaha	8/01/2025	3	2462061	Rita WAY	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:21													

Upper Tamaki River	5/06/2025	3	2608994	Deas PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:50													
East Coast Bays	31/08/2024	3	2435071	Rock Isle RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:07													
East Coast Bays	9/06/2025	3	2435071	Rock Isle RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	None.
					12:51													
East Coast Bays	27/06/2025	3	2435071	Rock Isle RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					10:48													
Upper Tamaki River	2/05/2025	3	2578565	Pakuranga RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					13:42													
Mangere	19/04/2025	3	1464311	Buckland RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up using mini combo
					8:31													
Upper Tamaki River	11/06/2025	3	2579469	Hallberry RD	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					20:28													
Upper Tamaki River	12/12/2024	3	2575540	Tralee TCE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					21:06													
Orewa	5/06/2025	3	2545872	Alice AVE	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed. Clean up private chamber. Works planned for permanent solution.
					9:09													
Western Isthmus (Central Interceptor)	27/05/2025	3	2495282	Himikera AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso. CCTV recommended.
					9:06													
Puhinui	28/06/2025	3	2477445	Addington AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cleaned up and disso.
					13:46													
Upper Tamaki River	26/01/2025	3	2576751	Udys RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock
					17:15													
Pukekohe	26/01/2025	3	2522563	Ward ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:28													
Hobson Bay	26/01/2025	3	2490481	Orakei RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:11													

Henderson Creek	26/01/2025	3	2406874	Konini RD	n/a	Silts	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:29													
Whau River	27/01/2025	3	2409919	Eastglen RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cse to remove roots
					10:56													
Pahurehure Inlet	4/06/2025	3	2470139	Buller CRES	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Disso.
					21:48													
Shoal Bay	21/09/2024	3	2536210	Glade PL	n/a	Surcharging	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					9:45													
Lower Tamaki River	17/09/2024	3	2483612	West Tamaki RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					14:34													
Cockle Bay	10/12/2024	3	2474724	Shelly Beach PDE	n/a	Rubbish	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					18:25													
Western Isthmus (Central Interceptor)	9/05/2025	3	2489412	Walters RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for CCTV.
					10:48													
Henderson Creek	2/05/2025	3	2408522	Triangle RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					12:49													
Whangapara oa	4/10/2024	3	2552455	Zealandia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					16:01													
Whangapara oa	5/10/2024	3	2552455	Zealandia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					8:39													
Whangapara oa	19/04/2025	3	2552455	Zealandia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					18:04													
Whangapara oa	10/05/2025	3	2552455	Zealandia RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					9:37													
Whangapara oa	27/05/2025	3	2552455	Zealandia RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and suck up cess pit.
					12:41													
Whangapara oa	5/06/2025	3	2552455	Zealandia RD	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					8:31													
Whangapara oa	27/06/2025	3	2552455	Zealandia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					12:34													

Hobson Bay	12/05/2025	3	2602191	John Rymer PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					18:56													
Hobson Bay	7/06/2025	3	2602191	John Rymer PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					11:17													
Upper Harbour South	19/04/2025	3	2427136	Mahara AVE	n/a	Surcharging	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	None.
					7:18													
Upper Harbour South	9/05/2025	3	2427136	Mahara AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					18:01													
Henderson Creek	15/07/2024	3	2509309	Albert Pryor AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					15:54													
Shoal Bay	16/11/2024	3	2430067	Compton ST	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	flushed line
					11:32													
Hobson Bay	11/02/2025	3	81003013	Kohimarama RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	heavy flush
					18:58													
Lower Tamaki River	12/02/2025	3	2600763	Riddell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:30													
Pahurehure Inlet	12/02/2025	3	2585585	Maich RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					13:21													
Pahurehure Inlet	12/02/2025	3	2467722	Jellicoe RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:01													
Lower Tamaki River	12/02/2025	3	81005760	Stonemason AVE	n/a	Fat	No	Road/footpath	L3	Local	SW network	yes	no	yes		n/a uncontrolled	3ppm	flushed line
					9:44													
Hobson Bay	5/06/2025	3	2610256	Rutherford TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:45													
Pahurehure Inlet	22/12/2024	3	2480778	Sandwick DR	n/a	Fat	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					14:36													
Whau River	20/04/2025	3	2411964	Kohekohe ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushing to be done
					18:38													
Whau River	5/06/2025	3	2411964	Kohekohe ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					8:14													
Hobson Bay	7/06/2025	3	2614367	Rutherford TCE	n/a	Surcharging	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					12:07													

Western Isthmus (Central Interceptor)	30/05/2025	3	2608040	Tiverton RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated CSE to remove roots. CCTV recommended. Disso applied.
					9:29													
Whangapara	27/05/2025	3	2548273	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flush and clean up.
					6:23													
Whangapara	5/06/2025	3	2548273	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hydro Vac to clean up.
					12:14													
Whangapara	27/06/2025	3	2548273	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					10:57													
Lower Tamaki River	27/05/2025	3	2594942	Kings RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					18:57													
East Coast Bays	9/06/2025	3	2443846	Manutara AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock and cleaned up.
					14:39													
Western Isthmus (Central Interceptor)	23/04/2025	3	2592297	Wright RD	n/a	Surcharging	Yes	Inside property	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	No info. Note of cross connection of SW to WW.
					6:42													
Western Isthmus (Central Interceptor)	4/06/2025	3	2592297	Wright RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Customer advised that this is repeat issue.
					13:46													
Upper Tamaki River	5/06/2025	3	2588646	Pakuranga RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso.
					18:20													
Upper Tamaki River	9/06/2025	3	2484755	Pakuranga RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					0:57													
Onehunga	11/06/2025	3	2615811	Neilson ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, root cut has been scheduled.
					11:25													
Lower Tamaki River	5/06/2025	3	2484667	Chesterfield AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	All flow good. No disso required.
					9:21													
Lower Tamaki River	27/06/2025	3	2484667	Chesterfield AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					14:48													

Western Isthmus (Central Interceptor)	20/07/2024	3	81001281	Exminster ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					2:24													
Helensville	12/12/2024	3	2444676	Springs RD	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	rods, heavy flush
					13:48													
Lower Tamaki River	20/07/2024	3	2483858	Ngarimu RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line
					20:32													
Hobson Bay	27/04/2025	3	2609147	Shore RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Ongoing landslip work
					23:19													
Upper Harbour West	17/12/2024	3	81005214	Picasso DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:37													
Upper Harbour West	21/01/2025	3	81005214	Picasso DR	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, rehaunching
					14:41													
Upper Harbour West	5/06/2025	3	2407398	Picasso DR	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, flushed and cleaned up.
					8:22													
Upper Tamaki River	19/03/2025	3	2465296	Botany RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	heavy flush
					21:19													
Upper Tamaki River	20/03/2025	3	2465943	Bard PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:45													
Upper Tamaki River	20/03/2025	3	2465238	Graeme AVE	n/a	Fat	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					11:22													
Shoal Bay	27/10/2024	3	2539520	Williamson AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					16:57													
Whau River	21/04/2025	3	2508025	Cutler ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					10:40													
Whau River	13/06/2025	3	2508025	Cutler ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					15:51													
Western Isthmus (Central Interceptor)	27/10/2024	3	2495806	Somerset RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:55													
East Coast Bays	20/09/2024	3	2544204	Acacia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					8:34													

Upper Tamaki River	9/05/2025	3	81014740	Ngaio ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked line, cleaned up and disso.
					11:36													
East Coast Bays	30/04/2025	3	2436784	Sunrise AVE	n/a	Fat	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					8:40													
East Coast Bays	1/05/2025	3	2442455	Sunrise AVE	n/a	Fat	Yes	Retail/commercial / public	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	No info.	No info
					7:27													
East Coast Bays	31/08/2024	3	2433205	Hythe TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					23:55													
East Coast Bays	11/09/2024	3	2442856	Hythe TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:37													
Upper Harbour North	3/04/2025	3	2434908	Tarndale GRV	n/a	Rags	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					13:21													
East Coast Bays	10/05/2025	3	2433205	Hythe TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					11:46													
Mangere	4/04/2025	3	2468474	Orly AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:10													
Central Auckland CBD	4/04/2025	3	2590330	Albert ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					19:30													
Pukekohe	4/04/2025	3	2417441	Edinburgh ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:17													
Hobson Bay	4/04/2025	3	2599189	Sayegh ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:07													
Shoal Bay	4/04/2025	3	2427037	Huron ST	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flush
					13:03													
Whangaparoa	5/04/2025	3	2445283	Swann Beach RD	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line, pigtail, CSE
					8:27													
Upper Tamaki River	5/04/2025	3	2508864	Lunn AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:41													
Upper Tamaki River	5/04/2025	3	2571292	Preston RD	n/a	Fat	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					16:08													
Upper Tamaki River	5/04/2025	3	2462883	Milton RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	flushed line
					10:28													
Lower Tamaki River	5/04/2025	3	2486191	Point England RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:24													

Hobson Bay	5/04/2025	3	2482634	Challenger ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					11:32											uncontrolled		
East Coast Bays	5/04/2025	3	2547451	Infidel PL	n/a	Fat	No	On property	L2	Local	Stream	no	yes	no	no	n/a	1ppm	pig tail, heavy flushed
					13:46											uncontrolled		
Upper Harbour North	5/04/2025	3	2530509	Tenbless CT	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CSE
					17:24											uncontrolled		
East Coast Bays	5/06/2025	3	2433205	Hythe TCE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Hydro X for clean up.
					14:42											uncontrolled		
East Coast Bays	9/06/2025	3	1424441	Hythe TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					21:04											uncontrolled		
East Coast Bays	15/06/2025	3	2433205	Hythe TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					15:08											uncontrolled		
Western Isthmus (Central Interceptor)	27/04/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso. Further CCTV req.
					11:23											uncontrolled		
Henderson Creek	8/04/2025	3	2555498	Glendale RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line, heavy flushed
					12:49											uncontrolled		
Cox's Bay	8/04/2025	3	2896884	Francis ST	n/a	Roots	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a	No info.	flushed line, CSE to remove roots
					11:07											uncontrolled		
Western Isthmus (Central Interceptor)	9/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line, cleaned up and disso.
					22:24											uncontrolled		
Western Isthmus (Central Interceptor)	27/05/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	No info.	Unblocked, clean up and disso.
					8:11											uncontrolled		
Western Isthmus (Central Interceptor)	6/06/2025	3	2615277	Margate RD	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	remove rock
					8:55											uncontrolled		
Western Isthmus (Central Interceptor)	6/06/2025	3	2615277	Margate RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					7:46											uncontrolled		
Western Isthmus (Central Interceptor)	9/06/2025	3	2615277	Margate RD	n/a	Foreign Object	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a	0	Bypass pump setup, works ongoing.
					18:37											uncontrolled		

East Coast Bays	30/04/2025	3	2536661	Acacia RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cctv, flushed line, cut out fats, removed rags
					8:12													
Lower Tamaki River	15/11/2024	3	2606646	Harding AVE	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	plunged
					11:43													
Henderson Creek	5/06/2025	3	2416446	Castaing CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					11:48													
Henderson Creek	9/06/2025	3	2510277	Castaing CRES	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					9:12													
Henderson Creek	10/06/2025	3	2416446	Castaing CRES	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso.
					20:48													
Henderson Creek	27/06/2025	3	2416446	Castaing CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	washdown & disso.
					9:59													
Warkworth	16/04/2025	3	2444287	Falls ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line, heavy flushed
					7:37													
Western Isthmus (Central Interceptor)	18/04/2025	3	2611457	Taylor ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, repeats every year
					19:23													
Pahurehure Inlet	18/04/2025	3	1363110	Surrey ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:04													
Pahurehure Inlet	18/04/2025	3	1486961	Russell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked
					10:31													
Western Isthmus (Central Interceptor)	19/04/2025	3	2506178	Miranda ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					9:30													
Upper Harbour South	19/04/2025	3	2536972	Verbena RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	0	Flushed line and disso.
					8:38													
Upper Harbour South	19/04/2025	3	2421199	Coroglen AVE	n/a	Unknown	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Look like Private issue. CCTV advised.
					8:16													
Western Isthmus (Central Interceptor)	19/04/2025	3	2507208	Mau Pomare ST	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	None. Wet weather OF. Further investigations if there is a DWO
					10:40													

Western Isthmus (Central Interceptor)	19/04/2025	3	2608417	Dundale AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unkown unblocking method.
					1:36													
Hobson Bay	19/04/2025	3	2592837	Morrin ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked & disso. But roots clearance req. further works
					10:17													
Puhinui	1/05/2025	3	1356871	Banksia PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed. Escalated for heavy flush and CCTV.
					8:24													
Upper Harbour North	19/04/2025	3	2534800	Awatahi PL	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblock, clean up and disso
					9:46													
Henderson Creek	19/04/2025	3	1473436	Tudor RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up and disso
					16:40													
Pahurehure Inlet	19/04/2025	3	2469840	Freshney PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushe line, clean up and disso
					8:34													
Onehunga	19/04/2025	3	2512965	The Avenue	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					14:01													
Mangere	19/04/2025	3	1346512	Duggan AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					11:31													
Shoal Bay	9/05/2025	3	1528005	Cowper ST	n/a	Unknown	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					9:28													
Pahurehure Inlet	19/04/2025	3	2450460	Beaumonts WAY	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up and disinfect. Heavy rains is the cause
					12:45													
Weiti	4/01/2025	3	2440320	Flexman PL	n/a	Fat	Yes	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	Oppm	flushed line
					13:14													
Pahurehure Inlet	19/04/2025	3	2580787	Weymout h RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line and disso.
					14:22													
Western Isthmus (Central Interceptor)	19/04/2025	3	2605349	Denny AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Road flooding
					3:20													
Western Isthmus (Central Interceptor)	19/04/2025	3	2500214	Battersby AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	none
					8:27													

Upper Harbour South	5/06/2025	3	2540667	Melba ST	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Pipe work still in progress.
					11:15													
Western Isthmus (Central Interceptor)	19/04/2025	3	2606535	Mary Dreaver ST	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					8:29													
Western Isthmus (Central Interceptor)	19/04/2025	3	2605586	Sheppard AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked and massive clean up.
					13:35													
Puhinui	19/04/2025	3	2463910	Phoenix PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No info.
					13:01													
Western Isthmus (Central Interceptor)	19/04/2025	3	2486268	Newell ST	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	clean up and disinfect
					2:32													
Western Isthmus (Central Interceptor)	19/04/2025	3	2490744	Great North RD	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	further investigations underway.
					9:54													
Western Isthmus (Central Interceptor)	19/04/2025	3	2493016	Walmer RD	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Customer had it cleaned up
					14:11													
Henderson Creek	19/04/2025	3	2513157	Castaing CRES	n/a	Unknown	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CCTV, no issues in the main line or laterals.
					10:53													
Henderson Creek	19/04/2025	3	1352307	Alwyn AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					16:46													
Whau River	20/04/2025	3	2411014	Parker AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					19:06													
Whau River	20/04/2025	3	1361142	Kuaka PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					19:07													
Western Isthmus (Central Interceptor)	20/04/2025	3	2609980	Sheppard AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					7:47													
Henderson Creek	20/04/2025	3	2411991	Metcalfe RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	disso GT and MH
					19:00													
Whau River	20/04/2025	3	1466290	Glynnbrooke ST	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					18:41													

Upper Tamaki River	30/08/2024	3	2577997	Collett RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:57													
East Coast Bays	19/04/2025	3	2427023	Hatherlow ST	n/a	Silts	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up. Further works needed.
					8:29													
Western Isthmus (Central Interceptor)	21/04/2025	3	2497374	Maui Pomare ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared line. Further CSE req for roots removal.
					11:10													
Western Isthmus (Central Interceptor)	21/04/2025	3	2499546	Dundale AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					12:04													
Whau River	21/04/2025	3	2601630	Heaphy ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					14:11													
East Coast Bays	21/04/2025	3	2529845	Beach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					12:17													
East Coast Bays	21/04/2025	3	1512708	Aberdeen RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, pigtail for removal of roots. Clean up and disso.
					13:38													
Upper Harbour North	21/04/2025	3	2537805	Almond GRV	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					16:09													
Henderson Creek	21/04/2025	3	2415645	Universal DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Multiple flushes. CCTV and regular flushing advised
					9:26													
Whau River	21/04/2025	3	1407109	Titirangi RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up and disso
					10:02													
Whau River	21/04/2025	3	2414889	Kuaka PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					14:44													
Central Auckland CBD	21/04/2025	3	2604434	Alberon ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					12:28													
Western Isthmus (Central Interceptor)	21/04/2025	3	2488281	Oliver ST	n/a	Surcharging	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Tidy up, close manhole properly
					13:29													

Cox's Bay	21/04/2025	3	2604014	Ponsonby RD	n/a	Unknown	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Clean up and disso
					12:22													
Onehunga	12/05/2025	3	2483987	Canberra AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					10:49													
East Coast Bays	21/04/2025	3	2530780	Belle Verde DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, root removal with cutters.
					12:38													
Shoal Bay	22/04/2025	3	2545206	Northboro RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Vacuum suction and disso.
					10:12													
Onehunga	4/06/2025	3	2483987	Canberra AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					10:49													
Henderson Creek	22/04/2025	3	2519709	Takapu ST	n/a	Surcharging	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	Clean up and disso.
					14:03													
Onehunga	4/06/2025	3	2483987	Canberra AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					13:30													
Upper Tamaki River	22/04/2025	3	2466955	Tyrone ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No issues in line. No further notes.
					12:09													
East Coast Bays	26/01/2025	3	2531817	Ramsgate TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					11:26													
East Coast Bays	7/06/2025	3	2531817	Ramsgate TCE	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disso.
					9:19													
East Coast Bays	9/06/2025	3	2531817	Ramsgate TCE	n/a	Surcharging	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					9:25													
Central Auckland CBD	23/04/2025	3	1551366	Franklin RD	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown, cleanup and disso.
					13:45													
Western Isthmus (Central Interceptor)	23/04/2025	3	2498273	Carrington RD	n/a	Surcharging	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Shut popped up lid and clean up.
					9:14													
Upper Harbour South	24/04/2025	3	2431801	Ranch AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					9:23													
Western Isthmus (Central Interceptor)	10/12/2024	3	2600699	Linwood AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					8:36													

Western Isthmus (Central Interceptor)	12/12/2024	3	81006018	Linwood AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					7:50													
Upper Harbour West	20/07/2024	3	2404174	Cherub PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					13:19													
Upper Tamaki River	27/04/2025	3	1499161	Triumph RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal, using racks and rods.
					19:29													
Hobson Bay	27/04/2025	3	2611575	Mamaku ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flush, clean up and disso.
					19:12													
Upper Tamaki River	27/04/2025	3	2604543	Panama RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblock, clean up and disso.
					13:59													
Onehunga	27/04/2025	3	2609455	Oranga AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					12:55													
Warkworth	27/04/2025	3	1547947	Alnwick ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Investigations underway.
					16:32													
Whau River	28/04/2025	3	1520488	Manhattan HTS	n/a	Rubbish	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd, clean up and disso. Further investigations required.
					13:15													
Western Isthmus (Central Interceptor)	28/04/2025	3	2496880	John Davis RD	n/a	Silts	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso. Escalated for more work
					11:54													
Hobson Bay	28/04/2025	3	2604872	Ngapipi RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	roots removed, flushed line.
					14:35													
East Coast Bays	28/04/2025	3	2428852	Montgomery AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso
					12:05													
Upper Harbour North	30/04/2025	3	2523256	University AVE	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:20													

Central Auckland CBD	30/04/2025	3	2566706	Pitt ST	n/a	Rags	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to partially unblock, clean up and disso. Needs more work.
					16:36													
Upper Harbour South	30/04/2025	3	81010922	Lauderdale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					17:33													
Upper Tamaki River	30/04/2025	3	1446276	Kenwick PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					11:07													
Whau River	30/04/2025	3	2415002	Addison DR	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					18:54													
Henderson Creek	30/04/2025	3	1461652	Burgundy Park AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal, clean up and disso. Escalated for CSE to remove remaining roots.
					12:05													
Hobson Bay	3/05/2025	3	2496184	Michaels AVE	n/a	Fat	Yes	Reserve/park	L2	Local	Small waterway	yes	yes	no	no	n/a uncontrolled	No info.	flushed, clean up and disso. Heavy flushing recommended.
					9:36													
Hobson Bay	30/04/2025	3	2495867	Ashwell ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					9:44													
Hobson Bay	30/04/2025	3	2505316	St Johns RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:24													
Western Isthmus (Central Interceptor)	30/04/2025	3	2602853	Melrose RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocking not fully successful. No more info.
					11:13													
East Coast Bays	30/04/2025	3	2535075	Beach RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Investogations still underway.
					16:05													
Onehunga	30/04/2025	3	2610603	Alfred ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Laterals unblocked, clean up and lime.
					12:01													

Upper Tamaki River	30/04/2025	3	2498345	Princes ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Roots removal, clean up and disso.
					13:40													
Upper Harbour North	30/04/2025	3	2534176	Ballintra CL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:12													
Upper Harbour West	30/04/2025	3	1517958	Whiting GRV	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					10:29													
Central Auckland CBD	4/06/2025	3	2487047	Beresford ST	n/a	Surcharging	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					13:57													
Central Auckland CBD	6/06/2025	3	2598056	Beresford ST	n/a	Unknown	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	flushed line to remove obstruction, CCTV
					20:12													
Whau River	15/07/2024	3	2509161	Glendene AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					10:32													
East Coast Bays	1/05/2025	3	2440619	Rangitira AVE	n/a	Broken pipe	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	3	Fixed broken rising main. Cleaned up and disso.
					17:16													
East Coast Bays	1/05/2025	3	2542109	Finchley RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					9:35													
Whau River	20/07/2024	3	2511639	Glendene AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					12:16													
Lower Tamaki River	2/05/2025	3	2569745	Clovelly RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots. Heavy Flush.
					20:56													
Upper Tamaki River	2/05/2025	3	2476907	Baverstock RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rehunch of the manhole completed. No info on cause of OF or measures taken.
					13:26													
Lower Tamaki River	2/05/2025	3	2597437	Ridgeway PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up & disso
					13:54													
Mangere	2/05/2025	3	2576148	Coronation RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line. Clean up and disso.
					19:19													

Whau River	2/05/2025	3	2400773	Bolton ST	n/a	Surchargin	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	No OF issues found. But OF when raining.
					7:33													
Whau River	9/05/2025	3	2400773	Bolton ST	n/a	Surchargin	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	To investigate when there is rain next time.
					11:59													
Upper Tamaki River	2/05/2025	3	2574500	East Tamaki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed Gt, clean up and disso.
					14:24													
Henderson Creek	3/05/2025	3	2406607	Solar RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, clean up and disso.
					7:55													
Henderson Creek	3/05/2025	3	2519378	Burgundy Park AVE	n/a	Roots	No	On property	L3	Local	SW network	no	no	yes	no	n/a	6	Cleared roots, flushed line, clean up and disso.
					9:40													
Upper Tamaki River	3/05/2025	3	2573833	Mulroy PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					10:03													
Western Isthmus (Central Interceptor)	19/04/2025	3	2497100	Seaview TCE	n/a	Surchargin	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up.
					10:54													
Western Isthmus (Central Interceptor)	27/06/2025	3	2497100	Seaview TCE	n/a	Unknown	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	no info.
					9:34													
Laingholm	15/11/2024	3	2416771	Sylvan Valley AVE	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					14:41													
Upper Tamaki River	30/07/2024	3	2609767	Ballarat ST	n/a	Surchargin	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Washdown and disinfection.
					15:20													
Upper Tamaki River	1/08/2024	3	2609767	Ballarat ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					19:55													
Upper Harbour South	21/04/2025	3	2547327	Stott AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Disso
					13:01													
Upper Harbour South	11/05/2025	3	2547327	Stott AVE	n/a	Surchargin	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up and disso.
					9:48													

Orewa	6/06/2025	3	2446758	Hibiscus Coast HWY	n/a	Rags	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed mainline to unblock, wash down and disso.
					11:01													
Mangere	8/05/2025	3	2483425	Waterfront RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso
					21:14													
Western Isthmus (Central Interceptor)	9/05/2025	3	2481845	St Georges RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Investigations complete with no issues.
					18:40													
Western Isthmus (Central Interceptor)	9/05/2025	3	2591296	Donegal ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					15:47													
Shoal Bay	9/05/2025	3	2435615	Rawene RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					18:29													
Cockle Bay	9/05/2025	3	2573060	Oliver RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked.
					7:36													
Hobson Bay	9/05/2025	3	2486518	Rangiatea RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					11:10													
Western Isthmus (Central Interceptor)	27/10/2024	3	2597613	Acton PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					12:47													
East Coast Bays	9/05/2025	3	2536843	Roband AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					11:42													
East Coast Bays	9/05/2025	3	2424519	Wykeham PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					17:35													
Cox's Bay	9/05/2025	3	2488018	Dryden ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Investigations complete with no issues.
					9:42													
Upper Tamaki River	9/05/2025	3	2465935	Britannia PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV'd. flushed line, cleaned up and disso.
					9:49													

Helensville	9/05/2025	3	2447592	Mill RD	n/a	Broken pipe	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Fixed broken pipe. Cleaned up and disso.
					15:27													
Western Isthmus (Central Interceptor)	9/05/2025	3	2499451	Hillsborough RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. Complimentary jetting.
					11:49													
Whangaparoa	9/05/2025	3	2555176	Waterside CRES	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					8:47													
Whangaparoa	9/05/2025	3	2546552	Harbour Village DR	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					19:53													
Whangaparoa	9/05/2025	3	2554034	Harbour Village DR	n/a	Power Failure	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					20:37													
Hobson Bay	9/05/2025	3	2603795	Kohimarama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No info.
					11:27													
Hobson Bay	9/05/2025	3	2611983	Kohimarama RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					18:40													
Mangere	9/05/2025	3	2586429	Hall AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, cleaned up and disso.
					17:54													
Mangere	9/05/2025	3	2473729	Orly AVE	n/a	Roots	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots.
					9:14													
Mangere	9/05/2025	3	2570092	Balnoon PL	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					11:43													
Snells Beach/Algies Bay	9/05/2025	3	1534302	Martins Bay RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					21:29													
Shoal Bay	9/05/2025	3	2535322	Fairfax AVE	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Did investigations to find nothing.
					19:09													
Onehunga	26/01/2025	3	2610299	Heywood CRES	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unsure if overflowed
					21:46													
Upper Harbour North	9/05/2025	3	2433940	Greville RD	n/a	Rubbish	No	Road/footpath	L2	Local	Stream	yes	yes	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					11:43													

Hobson Bay	9/05/2025	3	2488700	Upland RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					10:42													
Hobson Bay	9/05/2025	3	2613682	Bell RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removal of roots.
					19:34													
Weiti	9/05/2025	3	2543239	Hibiscus Coast HWY	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					21:34													
Whangapara oia	9/05/2025	3	2435737	Whangapara oia RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					18:58													
Whangapara oia	9/05/2025	3	2437567	Brightside RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					22:46													
East Coast Bays	9/05/2025	3	2548355	Cranston ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					13:11													
Shoal Bay	10/05/2025	3	1380896	Grove RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:34													
Hobson Bay	10/05/2025	3	2598270	Ranier ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					9:02													
Lower Tamaki River	10/05/2025	3	2600601	Abingdon PL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					12:34													
Hobson Bay	16/06/2025	3	2599033	Tiki ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and clean up.
					17:50													
Hobson Bay	27/06/2025	3	2599033	Tiki ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					15:56													
Clarks Beach	20/09/2024	3	2532842	Torkar RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	power outage during heavy rain led to lines surcharging
					8:31													
Onehunga	10/05/2025	3	2600463	Seacliffe RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					14:03													
Hobson Bay	10/05/2025	3	2487922	Parkside ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV'd. flushed line, cleaned up and disso.
					13:41													

Lower Tamaki River	10/05/2025	3	2482632	Swainston RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					8:17													
Whangapara oa	10/05/2025	3	2543962	Kauri RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					8:44													
Whangapara oa	10/05/2025	3	2446645	Brightside RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					8:54													
Whangapara oa	10/05/2025	3	2545926	Rata RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					9:05													
Whangapara oa	10/05/2025	3	2447016	Brightside RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					9:38													
Whangapara oa	10/05/2025	3	2551043	Langton RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					11:09													
Whangapara oa	10/05/2025	3	2551767	Kauri RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					11:44													
Whangapara oa	10/05/2025	3	2446644	Langton RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					13:14													
Whangapara oa	10/05/2025	3	2543128	Langton RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					14:03													
Whangapara oa	10/05/2025	3	2437567	Brightside RD	n/a	Power Failure	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hobbs Bay P/S. Cleaned up and disso.
					14:39													
Whau River	10/05/2025	3	2563874	Roberts RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	no info.
					8:53													
Hobson Bay	27/05/2025	3	2610536	Rutherford TCE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flshed, clean up and disso.
					8:22													
Hobson Bay	12/05/2025	3	2498547	Hapua ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:36													
East Coast Bays	12/05/2025	3	2538674	Alexander AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					12:58													

Shoal Bay	14/05/2025	3	1496721	Evan ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					19:13													
Upper Harbour South	21/09/2024	3	2426570	Park RD	n/a	Broken pipe	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	3	flushed line, escalated for re-lining to repair crack
					6:23													
Western Isthmus (Central Interceptor)	28/04/2025	3	2606899	Potter AVE	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushing to remove fats and rags. Pipe work is under investigations.
					17:17													
Hobson Bay	27/05/2025	3	2614366	Rutherford TCE	n/a	Unknown	Yes	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					14:38													
Western Isthmus (Central Interceptor)	19/05/2025	3	2485706	Wairiki RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed Buchan trap, cleaned up and disso.
					11:18													
Upper Harbour North	19/05/2025	3	2428548	Airborne RD	n/a	Fat	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					13:34													
Western Isthmus (Central Interceptor)	19/05/2025	3	2604010	Sandringham RD	n/a	Fat	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					15:17													
East Coast Bays	19/05/2025	3	2430211	Tonkin DR	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to cut roots and flushed. Cleaned and disso. Heavy flush required to clear cut roots.
					12:59													
East Coast Bays	19/05/2025	3	2444764	Freya PL	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, CCTVd. Further works underway to remove concrete in the line.
					15:08													
Hobson Bay	20/05/2025	3	2447668	Comins CRES	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:16													

Pahurehure Inlet	5/06/2025	3	2470148	Greenmeadows AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, cleaned up and disso.
					0:11													
Pahurehure Inlet	11/06/2025	3	2583414	Greenmeadows AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleaned up and disso.
					7:38													
Pahurehure Inlet	27/06/2025	3	2583414	Greenmeadows AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					10:14													
Henderson Creek	21/05/2025	3	2520510	Riverpark CRES	n/a	Surcharging	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					12:01													
Shoal Bay	5/06/2025	3	2533393	Stanaway ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT to unblock.
					19:02													
Shoal Bay	9/06/2025	3	2424881	Stanaway ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso area & SW cesspit.
					17:55													
Upper Tamaki River	11/06/2025	3	2613194	Waipuna RD	n/a	Unknown	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					16:21													
Hobson Bay	27/06/2025	3	2498069	St Stephens AVE	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					9:28													
Western Isthmus (Central Interceptor)	27/05/2025	3	2615677	Bentleigh AVE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, clean up and disso.
					15:03													
Shoal Bay	27/05/2025	3	2427658	Palmerston RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed main line, clean up.
					13:26													
Hobson Bay	2/05/2025	3	2487959	Brilliant ST	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	No info.
					14:51													
East Coast Bays	12/05/2025	3	2431192	Colway PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					13:20													
Mangere	27/05/2025	3	2575162	Forbes RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					9:27													
Central Auckland CBD	27/05/2025	3	2602518	Beresford ST	n/a	Rags	No	Unknown	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0	Unblock, clean up & disso.
					9:40													
Henderson Creek	27/05/2025	3	2408414	Woodglen RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	unblocked
					16:21													

Whau River	27/05/2025	3	2410170	Sabulite RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	unblocked, clean up and disso.
					13:53													
Upper Tamaki River	27/05/2025	3	2575509	Earlsworth RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked using rod.Cleaned up.
					10:13													
East Coast Bays	5/06/2025	3	2533797	Colway PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Washdown and disso.
					12:30													
Whangapara	27/05/2025	3	2543803	Kenneth Hopper PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocked, wash down and disso.
					7:42													
Upper Tamaki River	27/05/2025	3	2577075	Bells RD	n/a	Broken pipe	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	No info. Transmission line.
					9:30													
Onehunga	27/05/2025	3	2611919	Pah RD	n/a	Fat	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					16:41													
Upper Harbour North	27/05/2025	3	1471636	Schnapper Rock RD	n/a	Roots	No	On property	L2	Local	Lake/basin /pond	yes	no	no	no	n/a	1	CSE roots removal, clean up and disso.
					17:31													
Shoal Bay	27/05/2025	3	2431294	Lake Pupuke DR	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked, removed roots, cleaned up. Escalated for CSE roots removal.
					16:16													
Pahurehure Inlet	27/05/2025	3	2585715	Lucas PL	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Unblocked.
					11:54													
Pahurehure Inlet	5/06/2025	3	2589635	Greenmeadows AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Hydro Vac to clean up.
					7:52													
Pahurehure Inlet	11/06/2025	3	2479440	Greenmeadows AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					8:12													
Pahurehure Inlet	27/06/2025	3	2480145	Greenmeadows AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Washdown and disinfection.
					9:25													
Upper Tamaki River	29/05/2025	3	2570316	Cryers RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	No info.
					7:54													
Upper Harbour South	30/05/2025	3	2538856	Lancaster RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed from IP, cleaned up and disso.
					16:02													

Central Auckland CBD	9/05/2025	3	2407819	Symonds ST	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed and cleared roots.
					15:21													
Whangapara	2/07/2024	3	2439430	Walton ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					6:21													
East Coast Bays	19/05/2025	3	2547110	Maxwellton DR	n/a	Surcharging	Yes	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					16:09													
Western Isthmus (Central Interceptor)	21/04/2025	3	2496880	John Davis RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line, clean up and disso.
					9:05													
Puhinui	4/06/2025	3	2580468	Redoubt RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed. CCTVd. Escalated for CSE to remove obstruction.
					13:40													
Pahurehure Inlet	4/06/2025	3	2476329	Bowen ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock.
					15:23													
Pahurehure Inlet	4/06/2025	3	2470178	Coxhead RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					18:18													
Pahurehure Inlet	4/06/2025	3	2477173	Kirton CRES	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, cleaned up and disso.
					21:15													
Pahurehure Inlet	4/06/2025	3	2474315	Ferguson ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					21:54													
Whau River	4/06/2025	3	2410741	Miro ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail to remove roots, flush, wash down and disso.
					13:04													
Whau River	4/06/2025	3	2422686	Wattle ST	n/a	Broken pipe	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Fixed Novacoil pipe.
					15:09													
Upper Tamaki River	4/06/2025	3	2460361	Larne AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					21:56													
Western Isthmus (Central Interceptor)	4/06/2025	3	2595816	Point Chevalier RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed from GT, wash down and disso.
					15:37													
Hobson Bay	4/06/2025	3	2490119	Clarendon RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	wash down and disso.
					21:35													

Henderson Creek	4/06/2025	3	2409276	Royal View RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, disso.
					19:45													
Mangere	28/04/2025	3	2508365	Great South RD	n/a	Fat	Yes	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Remove fats and rags by flushing line. Clean up and disso.
					17:00													
Lower Tamaki River	5/06/2025	3	2462545	Hattaway AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					10:05													
Lower Tamaki River	5/06/2025	3	2570573	The Parade	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					10:11													
East Coast Bays	5/06/2025	3	2430189	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail to remove roots, clean up and disso.
					11:25													
East Coast Bays	5/06/2025	3	2529845	The Esplanade	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Hydro Vac to clean up.
					7:51													
East Coast Bays	5/06/2025	3	2427030	Seaview RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Removed roots, fats and vegetation, flushed, cleaned up and disso.
					7:44													
Upper Tamaki River	5/06/2025	3	2478869	Charntay AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso lawn.
					13:29													
Shoal Bay	5/06/2025	3	1380896	Grove RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	cleaned up and disso.
					13:05													
Onehunga	5/06/2025	3	2499539	The Drive	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for further investigations
					20:59													
Hobson Bay	15/11/2024	3	2492448	Rukutai ST	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					15:52													
Henderson Creek	27/06/2025	3	2412692	Metcalfe RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					18:16													

Central Auckland CBD	5/06/2025	3	2486441	Howe ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed to unblock, cleaned up and disso parking lot and catch pit.
					13:35													
Lower Tamaki River	5/06/2025	3	2598915	Athlone RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up and disso.
					15:15													
East Coast Bays	5/06/2025	3	2432925	Archers RD	n/a	Surcharging	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Cleaned up and disso.
					12:05													
Puhinui	5/06/2025	3	2477954	Kahurangi PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					11:16													
Shoal Bay	19/04/2025	3	2434128	Northboro RD	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Unblocking method unknown. Further works needed
					8:16													
East Coast Bays	5/06/2025	3	2426727	Nile RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up.
					10:27													
Upper Tamaki River	5/06/2025	3	2467101	Matterhorn CRES	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up.
					10:47													
Helensville	10/05/2025	3	2445712	Commercial RD	n/a	Unknown	Yes	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed line, cleaned up and disso.
					15:06													
Orewa	5/06/2025	3	2548632	Lakeside DR	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					16:58													
Upper Tamaki River	5/06/2025	3	2496000	Water ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					13:55													
Upper Tamaki River	5/06/2025	3	2480016	Lynn PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	wash down and disso.
					8:25													
Hobson Bay	20/09/2024	3	2487240	Hawthorne PL	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed lines
					17:30													
Upper Tamaki River	5/06/2025	3	2466800	Gossamer DR	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Disso.
					21:01													
Lower Tamaki River	5/06/2025	3	2610788	Queens RD	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a	No info.	unblocked by Hydrovac.
					11:32													
Upper Tamaki River	5/06/2025	3	2575618	Huia RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a	No info.	Cleaned up and disso.
					9:02													

Puhinui	5/06/2025	3	2559819	Hillside RD	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock main line and plunger in the private line.
					10:24													
Upper Tamaki River	5/06/2025	3	1548572	Coronation RD	n/a	Unknown	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Rods to unblock.
					16:05													
Puhinui	5/06/2025	3	2484547	Kenderdine RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTVd, located something in the line that is holding.
					20:40													
Hobson Bay	5/06/2025	3	2492920	Middleton RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed laterals. Cleaned up and disso.
					13:30													
Whangaparoa	5/06/2025	3	2551719	Knott RD	n/a	Unknown	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Hydro Vac to clean up.
					8:05													
Upper Tamaki River	5/06/2025	3	1430520	Stanniland ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					6:46													
Upper Tamaki River	5/06/2025	3	2467145	Hemsway PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CSE to remove roost around NRV. Cleaned up.
					11:39													
Henderson Creek	5/06/2025	3	2407352	Kukupu RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					7:55													
Shoal Bay	5/06/2025	3	2424602	Taharoto RD	n/a	Surcharging	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	clean up and disso outside of the property.
					5:52													
Pahurehure Inlet	9/05/2025	3	2579243	Mahia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:42													
East Coast Bays	5/06/2025	3	2532317	Ashfield RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso.
					9:01													
Pahurehure Inlet	4/06/2025	3	2579243	Mahia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	HydroVac for clean up.
					22:11													
Warkworth	5/06/2025	3	2443835	Elizabeth ST	n/a	Unknown	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					9:11													

Pahurehure Inlet	11/06/2025	3	2579243	Mahia RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleand up.
					11:49													
Pahurehure Inlet	28/06/2025	3	2579243	Mahia RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					15:37													
Mangere	18/08/2024	3	2579407	Rush PL	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					10:53													
Central Auckland CBD	6/06/2025	3	2594016	Hepburn ST	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Patched line.
					8:34													
Lower Tamaki River	6/06/2025	3	2486445	Wendover RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, cleaned up and disso.
					21:32													
Central Auckland CBD	6/06/2025	3	2497384	Whitaker PL	n/a	Surcharging	No	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	0.25	Washdown and disinfection.
					10:19													
East Coast Bays	6/06/2025	3	2538922	Terrylyn DR	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					18:57													
Pahurehure Inlet	6/06/2025	3	2589635	Greenmeadows AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					1:13													
Central Auckland CBD	6/06/2025	3	2615948	Parnell RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					6:57													
Central Auckland CBD	6/06/2025	3	2604238	Garfield ST	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Excavation to expose lateral for root cutting to unblock and replace pipe joints.
					10:29													
Western Isthmus (Central Interceptor)	6/06/2025	3	2595816	Point Chevalier RD	n/a	Fat	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, cleaned up and disso.
					13:15													
Lower Tamaki River	6/06/2025	3	2479937	Ashby AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					10:17													
Whangapara oia	6/06/2025	3	2438427	Jean PL	n/a	Surcharging	No	Reserve/park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					14:12													
Upper Tamaki River	6/06/2025	3	2463288	Meadway	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					7:48													

Upper Tamaki River	18/08/2024	3	2575877	Hamill RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:11													
Upper Tamaki River	31/08/2024	3	2575877	Hamill RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					17:06													
Upper Tamaki River	1/09/2024	3	2575877	Hamill RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					9:04													
Upper Tamaki River	5/06/2025	3	2581751	Hamill RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down completed.
					11:47													
Upper Tamaki River	11/06/2025	3	2581751	Hamill RD	n/a	Broken pipe	Yes	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, CCTvd, cleaned up and disso. Escalated to engineer for a decision.
					9:24													
Western Isthmus (Central Interceptor)	9/06/2025	3	2499926	Shoreham ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					12:08													
Upper Harbour South	9/06/2025	3	2431674	Lynn RD	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, cleaned up and disso.
					9:11													
Whau River	9/06/2025	3	2486734	Francis Curtis AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, root removed, cleaned up.
					15:03													
Lower Tamaki River	9/06/2025	3	2486807	Pembroke CRES	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					22:54													
Mangere	9/06/2025	3	2568233	Oruarangi RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted to unblock, cleaned up and disso.
					9:17													
Henderson Creek	9/06/2025	3	2405092	Lowtherhurst RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					13:08													
Hobson Bay	9/06/2025	3	2597206	Patteson AVE	n/a	Broken pipe	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Dye test confirmed the asset that needs to be fixed.
					10:49													
Upper Tamaki River	9/06/2025	3	2466192	Gossamer DR	n/a	Foreign Object	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Unblocked, cleaned up and disso.
					15:48													

Pukekohe	9/06/2025	3	2523276	Birdwood RD	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock and disso.
					15:42													
Pahurehure Inlet	9/06/2025	3	2466694	Horlicks PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					12:44													
Henderson Creek	9/06/2025	3	2416446	Castaing CRES	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up.
					10:32													
Henderson Creek	9/06/2025	3	2411239	Blethyn PL	n/a	Unknown	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, cleaned up and disso.
					20:58													
Henderson Creek	10/06/2025	3	2406704	Surat PL	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed, cleaned up.
					17:15													
Hobson Bay	5/06/2025	3	2491769	Nihill CRES	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	no clean up required.
					10:55													
Hobson Bay	29/06/2025	3	2491769	Nihill CRES	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Clean up and disso.
					15:17													
Henderson Creek	11/06/2025	3	2410024	Wilson RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					10:13													
Cox's Bay	11/06/2025	3	2489427	Arnold ST	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					8:54													
Henderson Creek	11/06/2025	3	2412153	Coburg ST	n/a	Rags	No	Reserve/park	L2	Local	Stream	yes	yes	no	no	n/a	1	Flushed
					13:46													
Cox's Bay	11/06/2025	3	2595512	Wallace ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Cleaned up and disso.
					9:46													
Wellsford	5/10/2024	3	2553428	Astrid LN	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	flushed line
					19:41													
Upper Tamaki River	1/05/2025	3	2469458	Bolton PL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed line
					14:55													
Puhinui	11/06/2025	3	2477436	Moncrieff AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Jetted to unblock. Cleaned up and disso.
					9:18													
Henderson Creek	11/06/2025	3	2403791	Royal RD	n/a	Roots	No	Inside property	L1	Local	Land only	yes	no	no	no	n/a	No info.	Flushed, clean up and disso.
					9:20													
East Coast Bays	11/06/2025	3	2451937	Belmont TCE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a	No info.	Flushed from IP, cleaned up and disso.
					10:52													

Western Isthmus (Central Interceptor)	11/06/2025	3	2499744	White Swan RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					9:56													
Lower Tamaki River	8/05/2025	3	2596172	Castledine CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted.
					20:09													
Upper Tamaki River	11/06/2025	3	2576182	Bairds RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					11:20													
Upper Tamaki River	11/06/2025	3	2463567	Swaffield RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					10:49													
Hobson Bay	11/06/2025	3	2405569	Ara ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wash down and disso.
					0:11													
Hobson Bay	11/06/2025	3	2588947	Grand DR	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					15:39													
Upper Harbour North	11/06/2025	3	2537090	Black Teal CL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Pigtail to remove roots, flushed, clean up and disso.
					13:55													
Hobson Bay	12/06/2025	3	2497250	Marua RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Investiagtions underway and also found a broken haunch.
					10:24													
Mangere	16/07/2024	3	2464225	Tannock PL	n/a	Foreign Object	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					7:23													
Whau River	12/06/2025	3	2508623	Castleford ST	n/a	Rubbish	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove debris. Flushed and cleaned up.
					11:04													
Western Isthmus (Central Interceptor)	12/06/2025	3	2498172	Hillsborough RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					8:46													
Waiuku	12/06/2025	3	2524288	George ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					9:52													
Upper Harbour South	13/06/2025	3	2440934	Birkdale RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					12:39													

East Coast Bays	13/06/2025	3	2542328	Beach RD	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Rods to remove roots.
					8:14													
East Coast Bays	10/05/2025	3	2428790	Selwyn CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Escalated for further investigations.
					6:34													
Henderson Creek	13/06/2025	3	2511604	Allington RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					7:46													
East Coast Bays	13/06/2025	3	2537616	Belmont TCE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					7:54													
East Coast Bays	5/06/2025	3	2428790	Selwyn CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up.
					12:54													
East Coast Bays	5/06/2025	3	2428790	Selwyn CRES	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up.
					8:18													
Pahurehure Inlet	13/06/2025	3	2582027	Trimdon ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					12:43													
East Coast Bays	9/06/2025	3	2428790	Selwyn CRES	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso. But found tomo. Escalated for further investigations.
					13:47													
Mangere	1/09/2024	3	2472556	Chingford CL	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					20:38													
East Coast Bays	15/06/2025	3	2541128	Crestview PL	n/a	Rubbish	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					20:43													
East Coast Bays	15/06/2025	3	2435432	Braemar RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					13:25													
Whangaparoa	15/06/2025	3	2449246	Quarter Deck LN	n/a	Roots	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Roots removal, flushed & CCTVd. Cleaned up and disso.
					16:06													
Henderson Creek	15/06/2025	3	2510315	Alidade PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, dye tested and washdown.
					7:54													
Long Bay	15/06/2025	3	2535254	Fitzwilliam DR	n/a	Roots	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Removed roots, escalated for CCTV.
					16:38													

Central Auckland CBD	28/04/2025	3	2487049	Jervois RD	n/a	Broken pipe	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso only. Further works to repair pipe.
					10:04													
Central Auckland CBD	30/04/2025	3	2487049	Jervois RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, clean up and disso.
					11:16													
Lower Tamaki River	5/06/2025	3	2596996	West Tamaki RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Customer had cleaned up OF.
					8:40													
Upper Tamaki River	3/10/2024	3	2471049	Station RD	n/a	3rd party damage	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	CCTV, flushed line, removed concrete
					9:27													
Upper Harbour North	18/06/2025	3	2439894	Hugh Green DR	n/a	Surcharging	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					11:16													
Central Auckland CBD	9/05/2025	3	2597332	Customs ST-W	n/a	Roots	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleared roots.
					10:12													
Henderson Creek	21/04/2025	3	2522424	Metcalfe RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line and clean up
					8:07													
Henderson Creek	2/05/2025	3	2522424	Metcalfe RD	n/a	Unknown	Yes	On property	L2	Local	SW network	no	no	yes	no	n/a uncontrolled	No info.	Works still underway.
					15:57													
Upper Tamaki River	9/05/2025	3	2470835	Woolfield RD	n/a	Fat	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line, cleaned up and disso.
					16:36													
Upper Tamaki River	9/05/2025	3	2470835	Woolfield RD	n/a	Unknown	Yes	On property	L2	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					20:21													
Puhinui	18/08/2024	3	2579511	Grande Vue RD	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					13:47													
Puhinui	10/12/2024	3	2579511	Grande Vue RD	n/a	Surcharging	Yes	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	No info.	wash down and disinfect
					17:14													
Whau River	16/07/2024	3	81001487	Ash ST	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line
					11:10													
Henderson Creek	10/05/2025	3	2407789	Rathgar RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Heavy flush, clean up and disso
					15:35													

Upper Harbour South	27/06/2025	3	2567344	Elliott AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					11:09													
Lower Tamaki River	9/06/2025	3	2569461	Musick Point RD	n/a	Roots	Yes	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	CSE to remove roots, flushed, CCTVd.
					21:16													
East Coast Bays	27/06/2025	3	1514683	Linwood AVE	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					9:32													
Upper Tamaki River	27/06/2025	3	2573069	Yacht PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					14:17													
Shoal Bay	27/06/2025	3	2529912	Mountbatten AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed to unblock, clean up and disso.
					10:33													
Western Isthmus (Central Interceptor)	27/06/2025	3	2603835	Arundel ST	n/a	Surcharging	No	Retail/commercial / public	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Flushed mainline.
					11:22													
Whangaparoa	27/06/2025	3	2550244	Parkview Drive	n/a	Surcharging	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disso.
					10:04													
Cockle Bay	27/06/2025	3	2566946	Selwyn RD	n/a	Surcharging	No	Car park	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					11:30													
Upper Tamaki River	27/06/2025	3	2570532	Botany RD	n/a	Broken pipe	No	Retail/commercial / public	L2	Local	River	yes	yes	no	no	n/a uncontrolled	No info.	Patched the hole in the pipe.
					11:07													
Pahurehure Inlet	27/06/2025	3	2470148	Greenmeadows AVE	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					12:19													
Upper Tamaki River	27/06/2025	3	2605315	Alcock ST	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					19:08													
Upper Tamaki River	27/06/2025	3	2574062	Dana PL	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					16:04													
Mangere	27/06/2025	3	2493487	Hall AVE	n/a	Fat	No	Road/footpath	L2	Local	SW network	yes	no	yes		n/a uncontrolled	0.25	Flushed mainline.
					20:24													
Upper Tamaki River	27/06/2025	3	2463814	Clutha CRES	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					13:57													
Upper Tamaki River	27/06/2025	3	2465086	Bairds RD	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up and disso.
					19:41													

Pukekohe	27/06/2025	3	2617948	Sai Ridge CL	n/a	Rags	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Jetted, cleaned up and disso.
					15:58													
Henderson Creek	5/06/2025	3	2412024	Glendale RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					16:08													
Henderson Creek	16/07/2024	3	2417229	Glen RD	n/a	Fat	Yes	On property	L3	Local	Stream	no	yes	no	no	n/a uncontrolled	No info.	Flushed line, CCTV
					10:52													
Hobson Bay	27/06/2025	3	2558518	Chatfield PL	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					10:48													
Upper Harbour West	3/10/2024	3	2403732	Hobsonville RD	n/a	Rags	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					17:37													
Waiuku	27/06/2025	3	2418151	Elm ST	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					11:51													
Warkworth	27/06/2025	3	2442107	Baxter ST	n/a	Surcharging	No	Road/footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown and disso applied.
					15:33													
Hobson Bay	6/06/2025	3	2485262	Long DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Washdown and disinfection.
					9:04													
Hobson Bay	27/06/2025	3	2599279	Long DR	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Wasdown, clean up and disso.
					11:42													
Lower Tamaki River	28/06/2025	3	2567830	Line RD	n/a	Unknown	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed line.
					9:59													
Upper Tamaki River	20/03/2025	3	2576763	Esperanto RD	n/a	Fat	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	flushed line
					9:28													
Pahurehure Inlet	28/06/2025	3	2482356	Thompson TCE	n/a	Fat	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, washdown and disso. Escalated for heavy flush.
					16:38													
Beachlands Maraetai	28/06/2025	3	2577592	Maraetai DR	n/a	Surcharging	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Clean up and disso.
					17:38													
Upper Tamaki River	28/06/2025	3	2564707	Whitford RD	n/a	Surcharging	No	Unknown	L1	Local	Land only	yes	no	no	no	n/a uncontrolled	No info.	Washdown, cleanup and disso.
					9:01													
Upper Harbour North	28/06/2025	3	2530892	Fernhill WAY	n/a	Surcharging	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	clean up and disso.
					11:09													
Whangapara oa	2/06/2025	3	2551592	Sundown AVE	n/a	Surcharging	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Cleaned up and disso.
					21:20													

Whangapara oa	7/06/2025	3	2551592	Sundown AVE	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Cleaned up and disso. CCTVd, Faulty inlet fixed. Flushed. Escalated for further investigatio ns.
					11:20													
Hobson Bay	28/06/2025	3	2616432	St Stephens AVE	n/a	Roots	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Remove roots.Flushe d line. Clean up and disso.
					8:49													
Whangapara oa	27/06/2025	3	2551592	Sundown AVE	n/a	Surchargin g	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Washdown and disinfection.
					10:23													
East Coast Bays	9/05/2025	3	N/A	Beach Road, Castor Bay	30	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrol led	No info.	No info.
					17:55													
East Coast Bays	4/06/2025	3	N/A	Beach Road, Castor Bay	80	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrol led	No info.	No info.
					20:50													
Hobson Bay	30/06/2025	3	2491273	Orakei RD	n/a	Surchargin g	No	On property	L1	Local	n/a	no	no	no	no	n/a uncontrol led	No info.	Washdown and disinfection.
					19:28													
Lower Tamaki River	30/06/2025	3	2470588/ DLSTE	Steeple Rise Wastewat er Monitorin g Site	426	Surchargin g	No	Road/ footpath	L1	Local	Land only	yes	no	no	no	n/a uncontrol led	No info.	Wash down and disinfection.
					9:56													
Western Isthmus (Central Interceptor)	5/06/2025	2	732	MH38 Pasadena Ave Sewer Overflow Level	43	Unknown	Yes	Lower Meola Creek	Unknown	Transmissi on	Large Waterway	yes	yes	no	yes	yes	No info.	No info.
					16:24													
Central Auckland CBD	11/06/2025	2	712	Branch 5 Herne Bay MH2A/Ov erflow Scotland St Sewer Overflow Level	203	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Transmissi on	Harbour	yes	no	no	yes	yes	No info.	No info.
					18:02													

East Coast Bays	9/06/2025	3	N/A	Beach Road, Castor Bay	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					9:25													
Hobson Bay	8/05/2025	3	DSB03	Branch 3 Newmarket MH 03	98	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					18:59													
Hobson Bay	29/05/2025	3	DSB03	Branch 3 Newmarket MH 03	38	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:55													
Hobson Bay	26/05/2025	3	DSB03	Branch 3 Newmarket MH 03	13	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:20													
Central Auckland CBD	1/05/2025	3	DSB05	Branch 5 Herne Bay	422	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					01:03													
Central Auckland CBD	8/05/2025	3	DSB05	Branch 5 Herne Bay	435	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					16:11													
Central Auckland CBD	18/05/2025	3	DSB05	Branch 5 Herne Bay	59	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:04													
Central Auckland CBD	26/05/2025	3	DSB05	Branch 5 Herne Bay	776	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					11:57													
Central Auckland CBD	28/05/2025	3	DSB05	Branch 5 Herne Bay	232	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					19:27													
Central Auckland CBD	3/04/2025	3	DSB05	Branch 5 Herne Bay	926	Surcharging	Yes	No info.	L2	Transmission	Small waterway	yes	yes	yes	no	yes	No info.	
					11:45													
Western Isthmus (Central Interceptor)	3/04/2025	3	DSB08	Branch 8 Mt Albert - Haverstock Rd Sewer OF	1336	Surcharging	No	No info.	L2	Transmission	Small waterway	yes	yes	yes	no	yes	No info.	
					23:19													
Central Auckland CBD	10/05/2025	3	2487049	Jervois RD	n/a	Unknown	Yes	On property	L1	Local	n/a	no	no	no	no	n/a uncontrolled	No info.	Flushed, cleaned up and disso.
					12:56													
Henderson Creek	19/04/2025	3	N/A	Candia Place, Swanson	50	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					14:10													
Henderson Creek	20/04/2025	3	N/A	Candia Place, Swanson	30	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					18:50													
Henderson Creek	2/05/2025	3	N/A	Candia Place, Swanson	50	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					12:20													
Henderson Creek	9/05/2025	3	N/A	Candia Place, Swanson	90	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:20													

Pahurehure Inlet	19/04/2025	3	N/A	Coxhead Road, Manurewa	50	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					3:25													
Pahurehure Inlet	9/05/2025	3	N/A	Coxhead Road, Manurewa	30	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					18:25													
Pahurehure Inlet	4/06/2025	3	N/A	Coxhead Road, Manurewa	150	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:55													
Pahurehure Inlet	10/06/2025	3	N/A	Coxhead Road, Manurewa	140	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:55													
Pahurehure Inlet	27/06/2025	3	N/A	Coxhead Road, Manurewa	80	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:15													
Western Isthmus (Central Interceptor)	4/04/2025	3	DSEDB	Edendale Branch	1016	Surcharging	Yes	No info.	L2	Transmission	Small waterway	yes	yes	yes	no	yes	No info.	
					03:08													
Henderson Creek	4/04/2025	3	DSGLE	Glen Eden Branch MH 16	240	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					06:25													
Cockle Bay	4/04/2025	3	DSMEB	Mellons Bay Branch MH 16	225	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					07:20													
Western Isthmus (Central Interceptor)	6/04/2025	3	DSEDB	Edendale Branch	50	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					23:52													
Upper Tamaki River	4/04/2025	3	DSOTB	Otara Branch MH 17	180	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					07:45													
Western Isthmus (Central Interceptor)	6/04/2025	3	DSB08	Branch 8 Mt Albert	13	Surcharging	No	No info.	L2	Transmission	Small waterway	yes	yes	no	no	yes	No info.	
					23:44													
Western Isthmus (Central Interceptor)	1/05/2025	3	DSEDB	Edendale Branch MH 01A	822	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					01:22													
Pahurehure Inlet	7/04/2025	3	DSSIN	Southern Interceptor MH 103	180	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:40													

Western Isthmus (Central Interceptor)	8/04/2025	3	DSB08	Branch 8 Mt Albert MH 08	275	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				09:10														
Western Isthmus (Central Interceptor)	18/04/2025	3	DSB08	Branch 8 Mt Albert MH 13	390	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				23:20														
Western Isthmus (Central Interceptor)	18/04/2025	3	DSEDB	Edendale Branch MH 01	497	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				23:27														
Western Isthmus (Central Interceptor)	8/05/2025	3	DSEDB	Edendale Branch MH 01A	727	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				16:26														
Upper Tamaki River	19/04/2025	3	DSOND	Otahuhu North Branch Diversion Sewer	200	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				03:24														
Upper Tamaki River	19/04/2025	3	DSOTB	Otara Branch	55	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				04:00														
Henderson Creek	19/04/2025	3	DSWHE	Whenuapai Branch MH 09	95	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				00:45														
Western Isthmus (Central Interceptor)	18/05/2025	3	DSEDB	Edendale Branch MH 01A	111	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				18:37														
Western Isthmus (Central Interceptor)	26/05/2025	3	DSEDB	Edendale Branch MH 01A	613	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				17:17														
Western Isthmus (Central Interceptor)	28/05/2025	3	DSEDB	Edendale Branch MH 01A	114	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				19:56														
Central Auckland CBD	18/05/2025	3	DSB05	Branch 5 Herne Bay MH 05	479	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				16:40														
Whau River	19/04/2025	3	N/A	Firle Place, Green Bay	90	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				0:10														
Whau River	20/04/2025	3	N/A	Firle Place, Green Bay	90	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				18:00														
Central Auckland CBD	5/06/2025	3	DSORM	Orakei Main Sewer MH 03	897	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
				01:52														

Whau River	9/05/2025	3	N/A	Firle Place, Green Bay	30	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrol led	No info.	No info.
					17:20													
Hobson Bay	15/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	860	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:15													
Hobson Bay	15/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	40	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:05													
Hobson Bay	15/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	120	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:15													
Hobson Bay	15/07/2024	2	511	158 Bassett Road, Remuera	20	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:25													
Hobson Bay	15/07/2024	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	90	Unknown	Yes	Newmarket Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:15													
Upper Harbour South	15/07/2024	2	844	Gazelle Avenue, Beach Haven	20	Unknown	Yes	Beach Haven	Unknown	Transmissi on	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:10													
Warkworth	15/07/2024	2	1540	Elizabeth Street, Warkwort h	780	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:00													
Warkworth	19/07/2024	2	1540	Elizabeth Street, Warkwort h	640	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:55													
Whau River	10/06/2025	3	N/A	Firle Place, Green Bay	90	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrol led	No info.	No info.
					20:00													
Henderson Creek	20/07/2024	2	1539	Blethyn Place Reserve, Te Atatu South	340	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:10													
Henderson Creek	20/07/2024	2	1604	10 Celsmere Lane, Te Atatu	100	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					6:45													

Henderson Creek	20/07/2024	2	1583	16 Matipo Road, Te Atatu Peninsula	130	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:40													
Hobson Bay	20/07/2024	2	281	49 Ngapuhi Road, Remuera	100	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:05													
Hobson Bay	20/07/2024	2	193	35 Yattendon Road, Sandringham	410	Unknown	Yes	St Heliers Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					4:55													
Hobson Bay	30/07/2024	2	452	18 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					15:55													
Hobson Bay	30/07/2024	2	451	27 Ngapipi Road, Orakei	20	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					16:00													
Hobson Bay	30/07/2024	2	281	49 Ngapuhi Road, Remuera	35	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:10													
Hobson Bay	30/07/2024	2	503	68 Portland Road, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:50													
Hobson Bay	30/07/2024	2	505	9 Scherff Road, Remuera	75	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:50													
Hobson Bay	30/07/2024	2	160	45 Ascot Avenue, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					15:50													
Hobson Bay	30/07/2024	2	511	158 Bassett Road, Remuera	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:50													
Hobson Bay	30/07/2024	2	1598	21 Ayr Street, Parnell	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:45													
Hobson Bay	30/07/2024	2	421	29 Ayr Street A/Middleton Road, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:40													
Cox's Bay	30/07/2024	2	230	42 Wharf Road, Westmere	40	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:30													

Shoal Bay	17/08/2024	2	829	28 Waitemata Road, Hauraki	20	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:25													
Whau River	27/06/2025	3	N/A	Firle Place, Green Bay	40	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					9:30													
Whau River	1/09/2024	3	N/A	Gardner Avenue, New Lynn	15	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					3:35													
Whau River	19/04/2025	3	N/A	Gardner Avenue, New Lynn	100	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					0:15													
Hobson Bay	31/08/2024	2	352	49 Rukutai Street, Orakei	20	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:20													
Whau River	20/04/2025	3	N/A	Gardner Avenue, New Lynn	75	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					18:15													
Lower Tamaki River	31/08/2024	2	596	Taniwha Street, Glen Innes	20	Unknown	Yes	Tamaki	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:45													
Hobson Bay	31/08/2024	2	193	35 Yattendon Road, Sandringh am	170	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					12:40													
Hobson Bay	31/08/2024	2	213	59 Baddeley Avenue, Kohimara ma	25	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:30													
East Coast Bays	31/08/2024	2	1595	11 Jonathan Place, Sunnynook	20	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													
Central Auckland CBD	31/08/2024	2	123	12 Mayoral Drive, Auckland CBD	20	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					9:10													
Western Isthmus (Central Interceptor)	31/08/2024	2	146	68 Smale Street, Pt Chev	190	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					8:50													
Cox's Bay	31/08/2024	2	230	42 Wharf Road, Westmere	810	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:40													

Whau River	9/05/2025	3	N/A	Gardner Avenue, New Lynn	40	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:20													
Whau River	10/06/2025	3	N/A	Gardner Avenue, New Lynn	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					22:25													
Henderson Creek	1/09/2024	2	8	Chilcott Road, Henderson	110	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					3:40													
Upper Tamaki River	1/09/2024	2	1534	Graeme Ave, Mangere	20	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					3:15													
Warkworth	1/09/2024	2	1540	Elizabeth Street, Warkworth	50	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:15													
Henderson Creek	1/09/2024	2	6	Kingdale Road, Henderson	110	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:05													
Puhinui	1/09/2024	2	1535	Wyllie Rd, Papatoetoe	80	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					2:55													
Western Isthmus (Central Interceptor)	1/09/2024	2	1531	Anahere Lane, Hillsborough	90	Unknown	No	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Western Isthmus (Central Interceptor)	1/09/2024	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	160	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					2:25													
Western Isthmus (Central Interceptor)	1/09/2024	2	571	102 Penny Avenue, Mt. Roskill	130	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					2:25													
Western Isthmus (Central Interceptor)	1/09/2024	2	1589	153 Whitney Street, Blockhouse Bay - within rod reserve	220	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:20													
Western Isthmus (Central Interceptor)	15/09/2024	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	50	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					1:05													

Western Isthmus (Central Interceptor)	15/09/2024	2	1589	153 Whitney Street, Blockhouse Bay - within road reserve	50	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:00													
Hobson Bay	17/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	190	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:30													
Hobson Bay	17/09/2024	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:40													
Western Isthmus (Central Interceptor)	20/09/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:30													
Henderson Creek	20/09/2024	2	8	Chilcott Road, Henderson	80	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					15:30													
Hobson Bay	20/09/2024	2	193	35 Yattendon Road, Sandringham	160	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					15:20													
Western Isthmus (Central Interceptor)	20/09/2024	2	146	68 Smale Street, Pt Chev	30	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					15:15													
Henderson Creek	20/09/2024	2	1583	16 Matipo Road, Te Atatu Peninsula	55	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					15:05													
Western Isthmus (Central Interceptor)	20/09/2024	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	30	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					15:00													
Western Isthmus (Central Interceptor)	20/09/2024	2	571	102 Penny Avenue, Mt. Roskill	30	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					15:00													

Western Isthmus (Central Interceptor)	20/09/2024	2	1589	153 Whitney Street, Blockhouse Bay - within rod reserve	60	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:50													
Hobson Bay	20/09/2024	2	281	49 Ngapuhi Road, Remuera	120	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					14:35													
Hobson Bay	20/09/2024	2	508	32 Hapua Street, Remuera	20	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					13:05													
Henderson Creek	20/09/2024	2	1604	10 Celsmere Lane, Te Atatu	60	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					12:50													
Cox's Bay	20/09/2024	2	230	42 Wharf Road, Westmere	40	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:30													
Western Isthmus (Central Interceptor)	2/10/2024	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	140	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					22:20													
Western Isthmus (Central Interceptor)	2/10/2024	2	1589	153 Whitney Street, Blockhouse Bay - within rod reserve	120	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:45													
Western Isthmus (Central Interceptor)	2/10/2024	2	571	102 Penny Avenue, Mt. Roskil	80	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					21:40													
Upper Harbour South	18/04/2025	3	N/A	Gladys Avenue, Glenfield	90	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					23:55													
Upper Harbour South	9/05/2025	3	N/A	Gladys Avenue, Glenfield	130	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					11:20													
Upper Harbour South	9/06/2025	3	N/A	Gladys Avenue, Glenfield	60	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					8:40													
Lower Tamaki River	3/10/2024	2	596	Taniwha Street, Glen Innes	60	Unknown	Yes	Tamaki	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:35													

Hobson Bay	3/10/2024	2	213	59 Baddeley Avenue, Kohimarama	15	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:30													
Hobson Bay	3/10/2024	2	285	77 Meadowbank Road, Meadowbank	50	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					3:05													
Hobson Bay	3/10/2024	2	193	35 Yattendon Road, Sandringham	380	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					3:00													
Hobson Bay	3/10/2024	2	1580	4 St. Marks Road, Remuera	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Shoal Bay	3/10/2024	2	829	28 Waitemata Road, Hauraki	65	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:40													
East Coast Bays	3/10/2024	2	1595	11 Jonathan Place, Sunnynook	80	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Devonport-Takapuna	3/10/2024	2	848	1 Old Lake Rd, Narrow Neck	110	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:30													
East Coast Bays	3/10/2024	2	834	Penning Road, Castor Bay	60	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Hobson Bay	15/11/2024	2	452	18 Ngapipi Road, Orakei	65	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					11:35													
Hobson Bay	15/11/2024	2	352	49 Rukutai Street, Orakei	30	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:05													
Western Isthmus (Central Interceptor)	15/11/2024	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	30	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					14:20													
Hobson Bay	15/11/2024	2	281	49 Ngapuhi Road, Remuera	75	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:55													

Hobson Bay	15/11/2024	2	503	68 Portland Road, Remuera	50	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:55													
Hobson Bay	15/11/2024	2	511	158 Bassett Road, Remuera	200	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:50													
Hobson Bay	15/11/2024	2	1598	21 Ayr Street, Parnell	45	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:50													
Cox's Bay	15/11/2024	2	230	42 Wharf Road, Westmere	50	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:00													
Western Isthmus (Central Interceptor)	30/11/2024	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:00													
Upper Harbour South	27/06/2025	3	N/A	Gladys Avenue, Glenfield	80	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					9:30													
Henderson Creek	4/04/2025	3	DSGLE	Glen Eden Branch	140	Surcharging	Yes	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	No info.
					07:00													
Western Isthmus (Central Interceptor)	26/01/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	30	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:10													
Warkworth	17/02/2025	2	1540	Elizabeth Street, Warkworth	20	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:30													
Henderson Creek	19/04/2025	3	DSGLE	Glen Eden Branch	145	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					01:05													
Western Isthmus (Central Interceptor)	3/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	670	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:45													
Hobson Bay	3/04/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	900	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:35													

Hobson Bay	4/04/2025	2	452	18 Ngapipi Road, Orakei	175	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					5:25													
Western Isthmus (Central Interceptor)	4/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	340	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					13:30													
Hobson Bay	4/04/2025	2	451	27 Ngapipi Road, Orakei	30	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					6:05													
Hobson Bay	4/04/2025	2	193	35 Yattendon Road, Sandringham	230	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					16:55													
Henderson Creek	4/04/2025	2	748	Central Park Drive, Henderson	90	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					6:55													
Henderson Creek	4/04/2025	2	8	Chilcott Road, Henderson	120	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					6:50													
Henderson Creek	4/04/2025	2	6	Kingdale Road, Henderson	50	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:20													
Western Isthmus (Central Interceptor)	4/04/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	150	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					6:10													
Hobson Bay	4/04/2025	2	193	35 Yattendon Road, Sandringham	250	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					6:10													
Western Isthmus (Central Interceptor)	4/04/2025	2	146	68 Smale Street, Pt Chev	50	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					6:10													
Western Isthmus (Central Interceptor)	4/04/2025	2	571	102 Penny Avenue, Mt. Roskill	170	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					6:05													

Western Isthmus (Central Interceptor)	4/04/2025	2	1589	153 Whitney Street, Blockhouse Bay - within road reserve	60	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:00													
Hobson Bay	4/04/2025	2	160	45 Ascot Avenue, Remuera	55	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					5:45													
Hobson Bay	4/04/2025	2	508	32 Hapua Street, Remuera	70	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					5:40													
Hobson Bay	4/04/2025	2	1630	35 James Cook Crescent, Remuera.	20	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:40													
Hobson Bay	4/04/2025	2	281	49 Ngapuhi Road, Remuera	300	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:40													
Hobson Bay	4/04/2025	2	421	29 Ayr Street A/Middleton Road, Newmarket.	80	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:35													
Hobson Bay	4/04/2025	2	503	68 Portland Road, Remuera	130	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:30													
Cox's Bay	4/04/2025	2	230	42 Wharf Road, Westmere	90	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					5:30													
Warkworth	4/04/2025	2	1540	Elizabeth Street, Warkworth	400	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:35													
Hobson Bay	4/04/2025	2	505	9 Scherff Road, Remuera	805	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:10													
Hobson Bay	4/04/2025	2	511	158 Bassett Road, Remuera	510	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:10													

Central Auckland CBD	4/04/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	5:55	No info	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
Henderson Creek	1/05/2025	3	DSGLE	Glen Eden Branch	01:57	379	Surcharging	Yes	No info.	L2	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
Western Isthmus (Central Interceptor)	8/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	12:25	30	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
Cox's Bay	8/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	9:30	15	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
Cox's Bay	8/04/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	9:30	90	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Henderson Creek	20/04/2025	3	DSGLE	Glen Eden Branch	06:35	245	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
Western Isthmus (Central Interceptor)	17/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	20:30	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
Warkworth	17/04/2025	2	1540	Elizabeth Street, Warkworth	11:05	210	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Warkworth	17/04/2025	2	1540	Elizabeth Street, Warkworth	8:05	990	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Henderson Creek	9/05/2025	3	DSGLE	Glen Eden Branch	17:21	472	Surcharging	Yes	No info.	L2	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.

Western Isthmus (Central Interceptor)	18/04/2025	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	860	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:50													
Cox's Bay	18/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	420	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					4:00													
Henderson Creek	27/06/2025	3	DSGLE	Glen Eden Branch MH83B storage tank relief	272	Surcharging	No	Unknown	L1	Transmission	Land only	yes	no	no	no	n/a uncontrolled	No info.	No info.
					09:32													
Lower Tamaki River	4/06/2025	3	DSGLD	Glendowie Branch Storage Tank MH 83B	332	Surcharging	No	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					12:40													
Henderson Creek	18/04/2025	2	1604	10 Celsmere Lane, Te Atatu	140	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					23:50													
Western Isthmus (Central Interceptor)	18/04/2025	2	309	Euston Rd, Sandringham	90	Unknown	No	Sandringham	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					23:50													
Henderson Creek	18/04/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	170	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:50													
Upper Harbour South	18/04/2025	2	844	Gazelle Avenue, Beach Haven	130	Unknown	Yes	Beach Haven	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					23:50													
Western Isthmus (Central Interceptor)	18/04/2025	2	146	68 Smale Street, Pt Chev	350	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					23:40													
Cox's Bay	18/04/2025	2	202	Hamilton Road, Herne Bay	45	Unknown	Yes	Herne Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					23:35													
Warkworth	18/04/2025	2	1540	Elizabeth Street, Warkworth	610	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:40													
Warkworth	18/04/2025	2	1540	Elizabeth Street, Warkworth	680	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:25													

Western Isthmus (Central Interceptor)	31/08/2024	3	N/A	Kingsview Road, Mt Eden	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					8:50													
Western Isthmus (Central Interceptor)	19/04/2025	3	N/A	Whitney Street, Blockhouse Bay - inside property	90	Unknown	No	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					0:00													
Western Isthmus (Central Interceptor)	4/06/2025	3	N/A	Kingsview Road, Mt Eden	15	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:15													
Upper Tamaki River	1/09/2024	3	N/A	Lovegrove Crescent, Otara	200	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					3:40													
Cox's Bay	19/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					19:25													
Cox's Bay	19/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	70	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					3:10													
Upper Tamaki River	3/10/2024	3	N/A	Lovegrove Crescent, Otara	110	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					4:40													
Upper Tamaki River	19/04/2025	3	N/A	Lovegrove Crescent, Otara	30	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					4:00													
Henderson Creek	19/04/2025	2	8	Chilcott Road, Henderson	110	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					14:50													
Henderson Creek	19/04/2025	2	8	Chilcott Road, Henderson	110	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					4:10													
Upper Tamaki River	19/04/2025	2	1549	14 McLean Ave, Papatoetoe	80	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					3:20													
Puhinui	19/04/2025	2	1535	Wyllie Rd, Papatoetoe	80	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					3:10													
Upper Tamaki River	19/04/2025	2	1534	Graeme Ave, Mangere	50	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					3:10													

Lower Tamaki River	19/04/2025	2	1406	Felton Matthew Ave, Glen Innes	20	Unknown	Yes	St Johns	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:00													
Hobson Bay	19/04/2025	2	193	35 Yattendon Road, Sandringham	80	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:55													
Hobson Bay	19/04/2025	2	1574	Judges Bay Road, Parnell	30	Unknown	Yes	Stanley	Unknown	Local	Basin	yes	no	no	yes	yes	No info.	No info.
					2:50													
Hobson Bay	19/04/2025	2	215	Hawera Road, Kohimarama	20	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:50													
Hobson Bay	19/04/2025	2	506	Wiles Avenue, Remuera	15	Unknown	No	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					2:45													
Hobson Bay	19/04/2025	2	455	Reihana Street, Orakei	40	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:45													
Hobson Bay	19/04/2025	2	1580	4 St. Marks Road, Remuera	85	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:45													
Long Bay	19/04/2025	2	832	47 Glenvar Road, Torbay	95	Unknown	Yes	Torbay	Unknown	Local	Small Waterway	yes	yes	no	yes	yes	No info.	No info.
					2:40													
Hobson Bay	19/04/2025	2	453	12a Okahu Street, Orakei	80	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:40													
Hobson Bay	19/04/2025	2	455	Reihana Street, Orakei	40	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:40													
East Coast Bays	19/04/2025	2	834	Penning Road, Castor Bay	30	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Hobson Bay	19/04/2025	2	458	88 Paritai Drive, Orakei	90	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:35													
Hobson Bay	19/04/2025	2	454	34-36 Apihai Street, Orakei	60	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:35													
Hobson Bay	19/04/2025	2	213	59 Baddeley Avenue, Kohimarama	75	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:35													

Shoal Bay	19/04/2025	2	829	28 Waitemata Road, Hauraki	85	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:35													
Devonport- Takapuna	19/04/2025	2	848	1 Old Lake Rd, Narrow Neck	410	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					2:30													
Hobson Bay	19/04/2025	2	504	Standen Ave, Remuera	110	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Hobson Bay	19/04/2025	2	281	49 Ngapuhi Road, Remuera	200	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Hobson Bay	19/04/2025	2	350	44 Rukutai Street, Orakei	40	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Hobson Bay	19/04/2025	2	514	Tahapa Crescent, Meadowbank	85	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					2:30													
Henderson Creek	19/04/2025	2	748	Central Park Drive, Henderson	130	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													
Henderson Creek	19/04/2025	2	8	Chilcott Road, Henderson	80	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													
Henderson Creek	19/04/2025	2	1539	Blethyn Place Reserve, Te Atatu South	30	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													
Henderson Creek	19/04/2025	2	6	Kingdale Road, Henderson	260	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:25													
Western Isthmus (Central Interceptor)	19/04/2025	2	1629	2/29 Raven Avenue/Ro- gan St, Mt Roskill	240	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					0:10													

Western Isthmus (Central Interceptor)	19/04/2025	2	1589	153 Whitney Street, Blockhouse Bay - within road reserve	260	Unknown	Yes	Whau	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					0:00													
Western Isthmus (Central Interceptor)	19/04/2025	2	571	102 Penny Avenue, Mt. Roskil	255	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					0:00													
Hobson Bay	19/04/2025	2	353	2b Nihill Cres, Misson Bay	90	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:30													
Upper Tamaki River	9/05/2025	3	N/A	Lovegrove Crescent, Otara	240	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					18:40													
Upper Tamaki River	4/06/2025	3	N/A	Lovegrove Crescent, Otara	340	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:20													
Upper Tamaki River	10/06/2025	3	N/A	Lovegrove Crescent, Otara	410	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:10													
Upper Tamaki River	27/06/2025	3	N/A	Lovegrove Crescent, Otara	270	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:40													
Western Isthmus (Central Interceptor)	20/04/2025	2	571	102 Penny Avenue, Mt. Roskil	60	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					19:00													
Henderson Creek	20/04/2025	2	748	Central Park Drive, Henderson	240	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:40													
Henderson Creek	20/04/2025	2	1539	Blethyn Place Reserve, Te Atatu South	50	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:40													
Henderson Creek	20/04/2025	2	8	Chilcott Road, Henderson	270	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:35													
Henderson Creek	20/04/2025	2	1604	10 Celsmere Lane, Te Atatu	80	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:10													

Henderson Creek	20/04/2025	2	6	Kingdale Road, Henderson	360	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:00													
Hobson Bay	27/04/2025	2	452	18 Ngapipi Road, Orakei	300	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					22:45													
Hobson Bay	27/04/2025	2	451	27 Ngapipi Road, Orakei	215	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					22:50													
Cox's Bay	27/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	100	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					22:05													
Hobson Bay	27/04/2025	2	352	49 Rukutai Street, Orakei	30	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:50													
Hobson Bay	27/04/2025	2	193	35 Yattendon Road, Sandringham	40	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					23:40													
Western Isthmus (Central Interceptor)	27/04/2025	2	571	102 Penny Avenue, Mt. Roskil	145	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					23:15													
Hobson Bay	27/04/2025	2	711	Branch 3 Newmarket MH 29-Broadway/St Marks Roads, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:10													
Western Isthmus (Central Interceptor)	27/04/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	230	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					23:10													
Hobson Bay	27/04/2025	2	160	45 Ascot Avenue, Remuera	115	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					23:05													
Hobson Bay	27/04/2025	2	458	88 Paritai Drive, Orakei	100	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					23:00													
Hobson Bay	27/04/2025	2	281	49 Ngapuhi Road, Remuera	350	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					23:00													

Hobson Bay	27/04/2025	2	504	Standen Ave, Remuera	220	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:55													
Hobson Bay	27/04/2025	2	1574	Judges Bay Road, Parnell	30	Unknown	Yes	Stanley	Unknown	Local	Basin	yes	no	no	yes	yes	No info.	No info.
					22:50													
Hobson Bay	27/04/2025	2	350	44 Rukutai Street, Orakei	40	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:50													
Hobson Bay	27/04/2025	2	1580	4 St. Marks Road, Remuera	145	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:50													
Hobson Bay	27/04/2025	2	508	32 Hapua Street, Remuera	230	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					22:45													
Hobson Bay	27/04/2025	2	503	68 Portland Road, Remuera	250	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:40													
Hobson Bay	27/04/2025	2	285	77 Meadowbank Road, Meadowbank	90	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					22:40													
Hobson Bay	27/04/2025	2	1630	35 James Cook Crescent, Remuera.	60	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:40													
Hobson Bay	27/04/2025	2	421	29 Ayr Street A/Middleton Road, Newmarket.	190	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:30													
Hobson Bay	27/04/2025	2	1598	21 Ayr Street, Parnell	200	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:30													
Shoal Bay	27/04/2025	2	829	28 Waitemata Road, Hauraki	235	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					22:30													
Hobson Bay	27/04/2025	2	353	2b Nihill Cres, Misson Bay	100	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:55													

Central Auckland CBD	27/04/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	35	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					22:25													
Cox's Bay	28/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					10:05													
Cox's Bay	28/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					4:00													
Cox's Bay	28/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	60	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					0:45													
Hobson Bay	28/04/2025	2	193	35 Yattendon Road, Sandringham	150	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					1:15													
Hobson Bay	28/04/2025	2	454	34-36 Apihai Street, Orakei	80	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					1:15													
Hobson Bay	28/04/2025	2	514	Tahapa Crescent, Meadowbank	65	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					1:15													
Hobson Bay	28/04/2025	2	213	59 Baddeley Avenue, Kohimarama	50	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:15													
Hobson Bay	28/04/2025	2	453	12a Okahu Street, Orakei	110	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					1:10													
Hobson Bay	28/04/2025	2	285	77 Meadowbank Road, Meadowbank	90	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													

Hobson Bay	30/04/2025	2	452	18 Ngapipi Road, Orakei	25	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:45													
Western Isthmus (Central Interceptor)	30/04/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	620	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:15													
Cox's Bay	30/04/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	170	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					1:35													
Henderson Creek	30/04/2025	2	6	Kingdale Road, Henderson	30	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:25													
Warkworth	30/04/2025	2	1540	Elizabeth Street, Warkworth	130	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:40													
Hobson Bay	30/04/2025	2	453	12a Okahu Street, Orakei	No info	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					3:35													
Cox's Bay	30/04/2025	2	267	216 Garnet Rd, Westmere	15	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					2:15													
Hobson Bay	30/04/2025	2	505	9 Scherff Road, Remuera	90	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:50													
Cox's Bay	30/04/2025	2	230	42 Wharf Road, Westmere	20	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:50													
Hobson Bay	30/04/2025	2	511	158 Bassett Road, Remuera	30	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:45													
Hobson Bay	30/04/2025	2	1598	21 Ayr Street, Parnell	25	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:45													
Upper Harbour South	18/04/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	160	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					23:55													

Henderson Creek	1/05/2025	2	748	Central Park Drive, Henderson	320	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:45													
Henderson Creek	1/05/2025	2	8	Chilcott Road, Henderson	120	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:40													
Henderson Creek	1/05/2025	2	1539	Blethyn Place Reserve, Te Atatu South	380	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:35													
Upper Harbour South	9/05/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	120	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:20													
Hobson Bay	2/05/2025	2	451	27 Ngapipi Road, Orakei	25	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:35													
Henderson Creek	2/05/2025	2	8	Chilcott Road, Henderson	270	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					12:30													
Hobson Bay	2/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:20													
Henderson Creek	2/05/2025	2	6	Kingdale Road, Henderson	230	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					12:20													
Hobson Bay	2/05/2025	2	193	35 Yattendon Road, Sandringham	150	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					11:40													
Upper Harbour South	2/05/2025	2	844	Gazelle Avenue, Beach Haven	20	Unknown	Yes	Beach Haven	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					11:40													
Hobson Bay	2/05/2025	2	213	59 Baddeley Avenue, Kohimarama	45	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:05													

Henderson Creek	2/05/2025	2	8	Chilcott Road, Henderson	270	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					3:50													
Upper Harbour South	4/06/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	110	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:25													
Warkworth	8/05/2025	2	1540	Elizabeth Street, Warkworth	580	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					22:40													
Upper Harbour South	9/06/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	60	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					8:40													
Upper Harbour South	27/06/2025	3	N/A	Lynn Reserve, Lynn Road, Bayview	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					9:30													
Pahurehure Inlet	4/04/2025	3	DSMND	Manurewa Branch Diversion MH 17A	130	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:05													
Pahurehure Inlet	19/04/2025	3	DSMND	Manurewa Branch Diversion MH 17A	70	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					03:20													
Cockle Bay	4/06/2025	3	N/A	Mellons Bay Road, Mellons Bay	130	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					22:35													
Cox's Bay	9/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	380	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					16:45													
Cox's Bay	9/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	260	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					10:55													
Cox's Bay	9/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	640	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					4:00													

Cox's Bay	9/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					2:05													
Cox's Bay	9/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					0:45													
Cockle Bay	10/06/2025	3	N/A	Mellons Bay Road, Mellons Bay	130	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:55													
Hobson Bay	9/05/2025	2	352	49 Rukutai Street, Orakei	75	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:30													
Cockle Bay	27/06/2025	3	N/A	Mellons Bay Road, Mellons Bay	280	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:20													
Onehunga	19/04/2025	3	DSONE	Onehunga Branch MH 10	39	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					00:25													
Onehunga	20/04/2025	3	DSONE	Onehunga Branch MH 10	43	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					11:53													
Central Auckland CBD	4/04/2025	3	DSORM	Orakei Main Sewer	3915	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					05:41													
Central Auckland CBD	27/06/2025	3	DSORM	Orakei Main Sewer	24	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					14:58													
Henderson Creek	9/05/2025	2	8	Chilcott Road, Henderson	130	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:45													
Upper Tamaki River	9/05/2025	2	1549	14 McLean Ave, Papatoetoe	80	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					18:05													
Hobson Bay	9/05/2025	2	215	Hawera Road, Kohimarama	60	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:00													
Henderson Creek	9/05/2025	2	748	Central Park Drive, Henderson	180	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:00													

Henderson Creek	9/05/2025	2	1539	Blethyn Place Reserve, Te Atatu South	30	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					18:00													
Hobson Bay	9/05/2025	2	193	35 Yattendon Road, Sandringham	360	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					17:55													
Upper Tamaki River	9/05/2025	2	1534	Graeme Ave, Mangere	110	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					17:55													
Hobson Bay	9/05/2025	2	213	59 Baddeley Avenue, Kohimarama	115	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:45													
East Coast Bays	9/05/2025	2	1576	16 Jutland Street Mairangi Bay	80	Unknown	Yes	Mairangi Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:45													
Hobson Bay	9/05/2025	2	453	12a Okahu Street, Orakei	110	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					17:40													
Hobson Bay	9/05/2025	2	514	Tahapa Crescent, Meadowbank	130	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					17:40													
Puhinui	9/05/2025	2	1535	Wyllie Rd, Papatoetoe	180	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					17:40													
Upper Harbour South	9/05/2025	2	844	Gazelle Avenue, Beach Haven	110	Unknown	Yes	Beach Haven	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:40													
Hobson Bay	9/05/2025	2	1574	Judges Bay Road, Parnell	90	Unknown	Yes	Stanley	Unknown	Local	Basin	yes	no	no	yes	yes	No info.	No info.
					17:35													
Shoal Bay	9/05/2025	2	829	28 Waitemata Road, Hauraki	120	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:35													
Henderson Creek	9/05/2025	2	6	Kingdale Road, Henderson	130	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:35													
East Coast Bays	9/05/2025	2	1595	11 Jonathan Place, Sunnynook	110	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:35													

Hobson Bay	9/05/2025	2	285	77 Meadowbank Road, Meadowbank	130	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:30													
Devonport-Takapuna	9/05/2025	2	848	1 Old Lake Rd, Narrow Neck	150	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					17:30													
Hobson Bay	9/05/2025	2	504	Standen Ave, Remuera	110	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:30													
Hobson Bay	9/05/2025	2	1580	4 St. Marks Road, Remuera	80	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:30													
East Coast Bays	9/05/2025	2	834	Penning Road, Castor Bay	90	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:30													
Western Isthmus (Central Interceptor)	9/05/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	170	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					17:25													
Central Auckland CBD	9/05/2025	2	123	12 Mayoral Drive, Auckland CBD	40	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					17:25													
Henderson Creek	9/05/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	140	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:20													
Henderson Creek	9/05/2025	2	1604	10 Celsmere Lane, Te Atatu	130	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					17:10													
Western Isthmus (Central Interceptor)	9/05/2025	2	571	102 Penny Avenue, Mt. Roskil	200	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					11:35													
Cox's Bay	9/05/2025	2	202	Hamilton Road, Herne Bay	45	Unknown	Yes	Herne Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					11:25													
Hobson Bay	9/05/2025	2	458	88 Paritai Drive, Orakei	90	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:10													
Cox's Bay	9/05/2025	2	267	216 Garnet Rd, Westmere	105	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:05													

Hobson Bay	9/05/2025	2	503	68 Portland Road, Remuera	170	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:00													
Western Isthmus (Central Interceptor)	9/05/2025	2	146	68 Smale Street, Pt Chev	135	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					4:40													
Hobson Bay	9/05/2025	2	285	77 Meadowbank Road, Meadowbank	130	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					4:10													
Hobson Bay	9/05/2025	2	421	29 Ayr Street A/Middleton Road, Newmarket.	100	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Hobson Bay	9/05/2025	2	353	2b Nihill Cres, Misson Bay	170	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:40													
Central Auckland CBD	9/05/2025	2	128	Intersection of Queen Street and 11 Victoria Street West, Auckland CBD Networks	50	Unknown	Yes	Waitemata Harbour - CBD Edge	Unknown	Local	Harbour	yes	no	no	yes	yes	No info.	No info.
					17:25													
Hobson Bay	26/05/2025	2	193	35 Yattendon Road, Sandringham	30	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					21:10													
Hobson Bay	26/05/2025	2	281	49 Ngapuhi Road, Remuera	230	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Cox's Bay	27/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	220	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					3:25													
Cox's Bay	27/05/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	70	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					0:15													

Central Auckland CBD	9/05/2025	3	DSORM	Orakei Main Sewer MH 38A	11:32	349	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
Western Isthmus (Central Interceptor)	27/05/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	6:45	20	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
Hobson Bay	27/05/2025	2	193	35 Yattendon Road, Sandringham	5:45	350	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Hobson Bay	27/05/2025	2	193	35 Yattendon Road, Sandringham	3:55	350	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
Central Auckland CBD	26/05/2025	3	DSORM	Orakei Main Sewer MH 38A	20:44	24	Surcharging	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
Hobson Bay	29/05/2025	2	505	9 Scherff Road, Remuera	18:00	80	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	29/05/2025	2	509	113 Brighton Road, Parnell	17:55	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	29/05/2025	2	1598	21 Ayr Street, Parnell	17:55	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	29/05/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	17:50	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	29/05/2025	2	511	158 Bassett Road, Remuera	17:50	40	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
Hobson Bay	30/05/2025	2	193	35 Yattendon Road, Sandringham	11:00	150	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
East Coast Bays	3/10/2024	3	N/A	Selwyn Crescent, Forrest Hill	2:35	50	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.

East Coast Bays	9/05/2025	3	N/A	Selwyn Crescent, Forrest Hill	60	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:40													
Hobson Bay	4/06/2025	2	452	18 Ngapipi Road, Orakei	250	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:10													
East Coast Bays	4/06/2025	3	N/A	Selwyn Crescent, Forrest Hill	105	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:50													
East Coast Bays	9/06/2025	3	N/A	Selwyn Crescent, Forrest Hill	45	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					8:55													
Lower Tamaki River	4/06/2025	3	N/A	Silverton Ave, Wai O Taiki Bay	100	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:05													
Western Isthmus (Central Interceptor)	4/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	490	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					17:30													
Hobson Bay	4/06/2025	2	451	27 Ngapipi Road, Orakei	205	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:15													
Lower Tamaki River	27/06/2025	3	N/A	Silverton Ave, Wai O Taiki Bay	60	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:00													
Henderson Creek	20/07/2024	3	N/A	Taikata Road, Te Atatu	810	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					5:15													
Hobson Bay	4/06/2025	2	352	49 Rukutai Street, Orakei	80	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:15													
Henderson Creek	20/09/2024	3	N/A	Taikata Road, Te Atatu	60	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					15:35													
Henderson Creek	19/04/2025	3	N/A	Taikata Road, Te Atatu	70	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					1:00													
Upper Tamaki River	4/06/2025	2	1534	Graeme Ave, Mangere	90	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					21:50													

Henderson Creek	4/06/2025	2	6	Kingdale Road, Henderson	40	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:25													
Henderson Creek	4/06/2025	2	8	Chilcott Road, Henderson	130	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					21:20													
Long Bay	4/06/2025	2	832	47 Glenvar Road, Torbay	60	Unknown	Yes	Torbay	Unknown	Local	Small Waterway	yes	yes	no	yes	yes	No info.	No info.
					21:05													
Warkworth	4/06/2025	2	1540	Elizabeth Street, Warkworth	110	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:05													
Hobson Bay	4/06/2025	2	215	Hawera Road, Kohimarama	70	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:00													
Lower Tamaki River	4/06/2025	2	1406	Felton Matthew Ave, Glen Innes	70	Unknown	Yes	St Johns	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					21:00													
Upper Tamaki River	4/06/2025	2	1534	Graeme Ave, Mangere	100	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					20:55													
Hobson Bay	4/06/2025	2	711	Branch 3 Newmarket MH 29-Broadway/ St Marks Roads, Newmarket	30	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	4/06/2025	2	455	Reihana Street, Orakei	70	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:50													
Upper Tamaki River	4/06/2025	2	1549	14 McLean Ave, Papatoetoe	160	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					20:50													
Hobson Bay	4/06/2025	2	453	12a Okahu Street, Orakei	110	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:45													
Puhinui	4/06/2025	2	1535	Wyllie Rd, Papatoetoe	260	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					20:45													

East Coast Bays	4/06/2025	2	1576	16 Jutland Street Mairangi Bay	130	Unknown	Yes	Mairange Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:45													
Henderson Creek	4/06/2025	2	1604	10 Celsmere Lane, Te Atatu	20	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:40													
Upper Harbour South	4/06/2025	2	844	Gazelle Avenue, Beach Haven	60	Unknown	Yes	Beach Haven	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:40													
Hobson Bay	4/06/2025	2	454	34-36 Apihai Street, Orakei	95	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:35													
East Coast Bays	4/06/2025	2	1595	11 Jonathan Place, Sunnynook	150	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:35													
Hobson Bay	4/06/2025	2	458	88 Paritai Drive, Orakei	140	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:30													
Hobson Bay	4/06/2025	2	193	35 Yattendon Road, Sandringham	830	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:30													
Hobson Bay	4/06/2025	2	514	Tahapa Crescent, Meadowbank	150	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					20:30													
Shoal Bay	4/06/2025	2	829	28 Waitemata Road, Hauraki	150	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:30													
Devonport-Takapuna	4/06/2025	2	848	1 Old Lake Rd, Narrow Neck	220	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:25													
Hobson Bay	4/06/2025	2	504	Standen Ave, Remuera	130	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:25													
Hobson Bay	4/06/2025	2	281	49 Ngapuhi Road, Remuera	330	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:20													
Hobson Bay	4/06/2025	2	213	59 Baddeley Avenue, Kohimarama	150	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:20													

East Coast Bays	4/06/2025	2	834	Penning Road, Castor Bay	150	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:15													
Cox's Bay	4/06/2025	2	202	Hamilton Road, Herne Bay	35	Unknown	Yes	Herne Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					20:15													
Hobson Bay	4/06/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	200	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:10													
Hobson Bay	4/06/2025	2	350	44 Rukutai Street, Orakei	110	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:10													
Hobson Bay	4/06/2025	2	285	77 Meadowbank Road, Meadowbank	170	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:00													
Hobson Bay	4/06/2025	2	503	68 Portland Road, Remuera	220	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:00													
Henderson Creek	4/06/2025	2	748	Central Park Drive, Henderson	240	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:50													
Henderson Creek	4/06/2025	2	8	Chilcott Road, Henderson	70	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					13:45													
Hobson Bay	4/06/2025	2	353	2b Nihill Cres, Misson Bay	200	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:30													
Western Isthmus (Central Interceptor)	5/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	310	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					16:05													
Cox's Bay	5/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	20	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					3:25													

Hobson Bay	5/06/2025	2	420	Nuffield/1 4 Mahuru Streets, Newmarke t	20	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					3:45													
Henderson Creek	5/06/2025	2	8	Chilcott Road, Henderson	110	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					0:20													
Henderson Creek	5/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	120	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					0:20													
Henderson Creek	20/04/2025	3	N/A	Taikata Road, Te Atatu	70	Unknown	Yes	No info.	Unknown	Transmissi on	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					18:50													
Henderson Creek	1/05/2025	3	N/A	Taikata Road, Te Atatu	610	Unknown	Yes	No info.	Unknown	Transmissi on	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					14:30													
Henderson Creek	9/05/2025	3	N/A	Taikata Road, Te Atatu	230	Unknown	Yes	No info.	Unknown	Transmissi on	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					18:00													
Henderson Creek	6/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	50	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:50													
Warkworth	6/06/2025	2	1540	Elizabeth Street, Warkwort h	20	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					2:40													
Henderson Creek	4/06/2025	3	N/A	Taikata Road, Te Atatu	140	Unknown	Yes	No info.	Unknown	Transmissi on	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					23:50													
Hobson Bay	9/06/2025	2	452	18 Ngapipi Road, Orakei	35	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					0:45													
Henderson Creek	4/06/2025	3	N/A	Taikata Road, Te Atatu	90	Unknown	Yes	No info.	Unknown	Transmissi on	no info	no info	no info	no info	no info	n/a uncontroll ed	No info.	No info.
					21:25													
Hobson Bay	9/06/2025	2	451	27 Ngapipi Road, Orakei	15	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													
Cox's Bay	9/06/2025	2	740	Branch 5 Herne Bay MH23/Arg yle Street, Herne bay	100	Unknown	Yes	Herne Bay	Unknown	Transmissi on	Beach	yes	no	no	yes	yes	No info.	No info.
					8:30													

Cox's Bay	9/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	30	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					6:05													
Cox's Bay	9/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	40	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					0:35													
Henderson Creek	6/06/2025	3	N/A	Taikata Road, Te Atatu	180	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					18:05													
Henderson Creek	6/06/2025	3	N/A	Taikata Road, Te Atatu	20	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					13:05													
East Coast Bays	9/06/2025	2	1576	16 Jutland Street Mairangi Bay	70	Unknown	Yes	Mairangi Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:05													
East Coast Bays	9/06/2025	2	1595	11 Jonathan Place, Sunnynook	100	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:55													
East Coast Bays	9/06/2025	2	834	Penning Road, Castor Bay	70	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:45													
Shoal Bay	9/06/2025	2	829	28 Waitemata Road, Hauraki	20	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					8:45													
Devonport- Takapuna	9/06/2025	2	848	1 Old Lake Rd, Narrow Neck	20	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:35													
Henderson Creek	9/06/2025	2	6	Kingdale Road, Henderson	290	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:25													
Henderson Creek	9/06/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	190	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:25													
Henderson Creek	9/06/2025	2	1604	10 Celsmere Lane, Te Atatu	80	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					8:20													

Henderson Creek	9/06/2025	2	748	Central Park Drive, Henderson	2390	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					7:50													
Henderson Creek	9/06/2025	2	8	Chilcott Road, Henderson	750	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					7:50													
Hobson Bay	9/06/2025	2	193	35 Yattendon Road, Sandringham	320	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					7:40													
Hobson Bay	9/06/2025	2	458	88 Paritai Drive, Orakei	30	Unknown	Yes	Mission Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:10													
Hobson Bay	9/06/2025	2	281	49 Ngapuhi Road, Remuera	60	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					1:00													
Cox's Bay	9/06/2025	2	267	216 Garnet Rd, Westmere	15	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					1:00													
Western Isthmus (Central Interceptor)	9/06/2025	2	571	102 Penny Avenue, Mt. Roskil	25	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					1:00													
Hobson Bay	9/06/2025	2	160	45 Ascot Avenue, Remuera	15	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					0:55													
Western Isthmus (Central Interceptor)	9/06/2025	2	146	68 Smale Street, Pt Chev	70	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					0:55													
Henderson Creek	9/06/2025	3	N/A	Taikata Road, Te Atatu	3160	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					8:00													
Hobson Bay	10/06/2025	2	451	27 Ngapipi Road, Orakei	40	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					20:10													
Henderson Creek	27/06/2025	3	N/A	Taikata Road, Te Atatu	600	Unknown	Yes	No info.	Unknown	Transmission	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:00													
Henderson Creek	19/04/2025	3	N/A	Titoki Street, Te Atatu	200	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					0:10													

Cox's Bay	10/06/2025	2	740	Branch 5 Herne Bay MH23/Argyle Street, Herne bay	290	Unknown	Yes	Herne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	No info.	No info.
					18:40													
Henderson Creek	3/05/2025	3	N/A	Titoki Street, Te Atatu	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					10:10													
Henderson Creek	9/05/2025	3	N/A	Titoki Street, Te Atatu	70	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:30													
Henderson Creek	10/06/2025	3	N/A	Titoki Street, Te Atatu	50	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:10													
East Coast Bays	31/08/2024	3	N/A	Woodstock Road, Forrest Hill	50	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					9:35													
Upper Tamaki River	10/06/2025	2	1549	14 McLean Ave, Papatoetoe	160	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					20:45													
Upper Tamaki River	10/06/2025	2	1534	Graeme Ave, Mangere	210	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					20:40													
Hobson Bay	10/06/2025	2	508	32 Hapua Street, Remuera	30	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					20:00													
Hobson Bay	10/06/2025	2	350	44 Rukutai Street, Orakei	30	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					20:00													
Hobson Bay	10/06/2025	2	193	35 Yattendon Road, Sandringham	390	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					19:55													
Henderson Creek	10/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	1110	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:55													
Henderson Creek	10/06/2025	2	6	Kingdale Road, Henderson	470	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:55													
Puhinui	10/06/2025	2	1535	Wyllie Rd, Papatoetoe	910	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					19:35													

Henderson Creek	10/06/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	420	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:35													
Hobson Bay	10/06/2025	2	160	45 Ascot Avenue, Remuera	40	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					19:30													
Western Isthmus (Central Interceptor)	10/06/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	280	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					19:20													
Cox's Bay	10/06/2025	2	230	42 Wharf Road, Westmere	30	Unknown	Yes	Grey Lynn	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					19:20													
Henderson Creek	10/06/2025	2	8	Chilcott Road, Henderson	1010	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:20													
Cox's Bay	10/06/2025	2	267	216 Garnet Rd, Westmere	55	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:15													
Western Isthmus (Central Interceptor)	10/06/2025	2	146	68 Smale Street, Pt Chev	360	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					19:10													
Western Isthmus (Central Interceptor)	10/06/2025	2	571	102 Penny Avenue, Mt. Roskil	280	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					19:10													
Waiuku	10/06/2025	3	N/A	1 Racecourse Road Waiuku	95	Unknown	No	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					22:35													
Henderson Creek	11/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	40	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					19:20													
Henderson Creek	12/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	770	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:45													
Henderson Creek	12/06/2025	2	8	Chilcott Road, Henderson	710	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:40													
East Coast Bays	3/10/2024	3	N/A	Woodstock Road, Forrest Hill	100	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					2:30													

East Coast Bays	15/06/2025	2	834	Penning Road, Castor Bay	20	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					11:40													
East Coast Bays	18/04/2025	3	N/A	Woodstock Road, Forrest Hill	30	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					23:55													
East Coast Bays	30/04/2025	3	N/A	Woodstock Road, Forrest Hill	1390	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:30													
East Coast Bays	9/05/2025	3	N/A	Woodstock Road, Forrest Hill	180	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					17:30													
Hobson Bay	27/06/2025	2	451	27 Ngapipi Road, Orakei	170	Unknown	Yes	Lower Purewa Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:05													
East Coast Bays	27/05/2025	3	N/A	Woodstock Road, Forrest Hill	30	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					6:20													
East Coast Bays	29/05/2025	3	N/A	Woodstock Road, Forrest Hill	20	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					21:10													
East Coast Bays	4/06/2025	3	N/A	Woodstock Road, Forrest Hill	210	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					20:15													
Hobson Bay	27/06/2025	2	352	49 Rukutai Street, Orakei	40	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													
East Coast Bays	10/06/2025	3	N/A	Woodstock Road, Forrest Hill	2290	Unknown	Yes	No info.	Unknown	Local	no info	no info	no info	no info	no info	n/a uncontrolled	No info.	No info.
					23:25													
Hobson Bay	27/06/2025	2	455	Reihana Street, Orakei	30	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					21:00													
Upper Tamaki River	27/06/2025	2	1534	Graeme Ave, Mangere	130	Unknown	Yes	Papatoetoe	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					10:20													
Hobson Bay	27/06/2025	2	215	Hawera Road, Kohimarama	50	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					10:05													

Upper Tamaki River	27/06/2025	2	1549	14 McLean Ave, Papatoetoe	110	Unknown	Yes	Papatoetoe	Unknown	Transmission	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					10:05													
Henderson Creek	27/06/2025	2	748	Central Park Drive, Henderson	360	Unknown	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:00													
Henderson Creek	27/06/2025	2	1539	Blethyn Place Reserve, Te Atatu South	290	Unknown	Yes	Lower Glen Eden	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					10:00													
Henderson Creek	27/06/2025	2	8	Chilcott Road, Henderson	400	Unknown	Yes	Henderson Creek	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:55													
Hobson Bay	27/06/2025	2	350	44 Rukutai Street, Orakei	20	Unknown	Yes	Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:50													
Puhinui	27/06/2025	2	1535	Wyllie Rd, Papatoetoe	300	Unknown	Yes	Manurewa	Unknown	Local	Large waterway	yes	yes	no	yes	yes	No info.	No info.
					9:50													
East Coast Bays	27/06/2025	2	1576	16 Jutland Street Mairangi Bay	80	Unknown	Yes	Mairangi Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:50													
Henderson Creek	27/06/2025	2	6	Kingdale Road, Henderson	100	Unknown	Yes	Lincoln	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:50													
Upper Harbour South	27/06/2025	2	844	Gazelle Avenue, Beach Haven	60	Unknown	Yes	Beach Haven	Unknown	Transmission	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:50													
Hobson Bay	27/06/2025	2	514	Tahapa Crescent, Meadowbank	55	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	no	yes	No info.	No info.
					9:45													
Hobson Bay	27/06/2025	2	454	34-36 Apihai Street, Orakei	60	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:40													
Hobson Bay	27/06/2025	2	213	59 Baddeley Avenue, Kohimarama	130	Unknown	Yes	Small Waterway	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													

Hobson Bay	27/06/2025	2	1580	4 St. Marks Road, Remuera	60	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													
Shoal Bay	27/06/2025	2	829	28 Waitemata Road, Hauraki	95	Unknown	Yes	Hauraki	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:40													
Hobson Bay	27/06/2025	2	508	32 Hapua Street, Remuera	170	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					9:35													
Hobson Bay	27/06/2025	2	1630	35 James Cook Crescent, Remuera.	20	Unknown	Yes	Epsom Newmarket	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:35													
Hobson Bay	27/06/2025	2	453	12a Okahu Street, Orakei	70	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:35													
Hobson Bay	27/06/2025	2	504	Standen Ave, Remuera	70	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:35													
Hobson Bay	27/06/2025	2	193	35 Yattendon Road, Sandringham	610	Unknown	Yes	St Heliers	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:35													
East Coast Bays	27/06/2025	2	1595	11 Jonathan Place, Sunnynook	90	Unknown	Yes	Glenfield Sunnynook	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:35													
Western Isthmus (Central Interceptor)	27/06/2025	2	1629	2/29 Raven Avenue/Rogan St, Mt Roskill	220	Unknown	Yes	Upper Oakley	Unknown	Local	Small waterway	yes	yes	no	yes	yes	No info.	No info.
					9:30													
Devonport-Takapuna	27/06/2025	2	848	1 Old Lake Rd, Narrow Neck	200	Unknown	Yes	Devonport Peninsula	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:30													
East Coast Bays	27/06/2025	2	834	Penning Road, Castor Bay	90	Unknown	Yes	Milford Takapuna	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:30													
Cox's Bay	27/06/2025	2	267	216 Garnet Rd, Westmere	60	Unknown	Yes	Motions Creek Estuary	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:30													
Western Isthmus (Central Interceptor)	27/06/2025	2	571	102 Penny Avenue, Mt. Roskil	180	Unknown	Yes	Small Waterway	Unknown	Local	Small Waterway	yes	yes	no	no	yes	No info.	No info.
					9:30													

Western Isthmus (Central Interceptor)	27/06/2025	2	146	68 Smale Street, Pt Chev	105	Unknown	Yes	To Land	L1	Local	To land	no	no	no	no	yes	No info.	No info.
					9:25													
Henderson Creek	27/06/2025	2	1583	16 Matipo Road, Te Atatu Peninsula	120	Unknown	Yes	Te Atatu North	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:25													
Henderson Creek	27/06/2025	2	1604	10 Celsmere Lane, Te Atatu	170	Unknown	Yes	Te Atatu South	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					9:20													
Hobson Bay	27/06/2025	2	455	Reihana Street, Orakei	220	Unknown	Yes	Mission Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					9:20													
Hobson Bay	27/06/2025	2	285	77 Meadowbank Road, Meadowbank	110	Unknown	Yes	Hobson	Unknown	Local	Estuary	yes	no	no	yes	yes	No info.	No info.
					8:50													
Cox's Bay	27/06/2025	2	202	Hamilton Road, Herne Bay	100	Unknown	Yes	Herne Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					8:50													
Hobson Bay	27/06/2025	2	281	49 Ngapuhi Road, Remuera	380	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:35													
Hobson Bay	27/06/2025	2	420	Nuffield/14 Mahuru Streets, Newmarket	310	Unknown	Yes	Epsom Newmarket	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					8:10													
Hobson Bay	27/06/2025	2	503	68 Portland Road, Remuera	240	Unknown	Yes	Hobson	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					7:45													
Warkworth	27/06/2025	2	1540	Elizabeth Street, Warkworth	520	Unknown	Yes	Warkworth	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					6:55													
Hobson Bay	27/06/2025	2	353	2b Nihill Cres, Misson Bay	190	Unknown	Yes	Unnamed stream - Mission Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:40													
Western Isthmus (Central Interceptor)	28/06/2025	2	734	Edendale Branch MH1/Morning Star Pl, Sandringham	60	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					18:55													

Western Isthmus (Central Interceptor)	28/06/2025	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	30	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					9:25													
Western Isthmus (Central Interceptor)	28/06/2025	2	734	Edendale Branch MH1/Morning Star PI, Sandringham	110	Unknown	Yes	Meola Creek (Lyon Avenue)	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	No info.	No info.
					4:50													
Cox's Bay	28/06/2025	2	201	Intersection of 97 Sarsfield and Lawrence Streets, Herne Bay	1255	Unknown	Yes	Home Bay	Unknown	Local	Beach	yes	no	no	yes	yes	No info.	No info.
					5:05													
East Coast Bays	16/07/2024	1	869	Browns Bay Pump Station	192	Surcharging	Yes	Taiaroa Creek	Unknown	Transmission	Small waterway	yes	yes	no	yes	yes	no info	
					23:48													
East Coast Bays	20/07/2024	1	930	Albany Church Pump Station	1009	Surcharging	No	Lignite Stream	Unknown	Local	Small waterway	yes	yes	no	no	yes	no info	
					01:48													
Upper Harbour South	20/07/2024	1	901	Cronin Pump Station	197	Surcharging	No	Beach Haven Beach	Unknown	Local	Beach	yes	no	no	yes	yes	no info	
					03:54													
Wellsford	20/07/2024	1	1128	Worker Road Pump Station	189	Surcharging	Yes	Unnamed tributary (south) of Whakapirau Creek	Unknown	Local	Small waterway	yes	yes	no	no	yes	no info	
					00:09													
Weiti	26/08/2024	1	822	Weiti Pump Station	74	Surcharging	Yes	Weiti River	Unknown	Local	Estuary	yes	no	no	yes	yes	no info	
					22:25													
Upper Tamaki River	3/10/2024	1	673	PS 43 Tamaki East	300	Surcharging	Yes	Upper Tamaki River	Unknown	Transmission	Estuary	yes	no	no	yes	yes	no info	
					06:31													
East Coast Bays	3/10/2024	1	951	Silverfield Storage Tank	360	Surcharging	Yes	Wairau Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info	
					07:28													
Upper Tamaki River	15/11/2024	1	683	PS 31 Otara	56	Surcharging	Yes	Upper Tamaki River (Middlemore Arm)	Unknown	Transmission	Estuary	yes	no	no	no	yes	no info	
					17:24													

Onehunga	18/11/2024	1	208	Aldersgate Road 1 Pump Station 15:12	139	Surcharging	Yes	Unnamed stream (flowing to Wesley Bay)	Unknown	Local	Small waterway	yes	yes	no	yes	yes	no info
Upper Harbour West	31/03/2025	1	1530	PS 69 Massey North 11:40	128	Surcharging	No	Totara Creek	L1	Transmission	Small waterway	yes	no	no	no	yes	not tested
Shoal Bay	4/04/2025	1	830	Lake Road (Northcote) Pump Station 08:05	158	Surcharging	Yes	Onepoto Stream	L1	Transmission	Estuary	yes	no	no	no	yes	not tested
Upper Tamaki River	4/04/2025	1	683	PS 31 Otara 10:51	265	Surcharging	Yes	Upper Tamaki River (Middlemore Arm)	L1	Transmission	Estuary	yes	no	no	no	yes	not tested
Upper Tamaki River	4/04/2025	1	673	PS 43 Tamaki East 09:52	316	Surcharging	Yes	Upper Tamaki River	L1	Transmission	Estuary	yes	no	no	yes	yes	not tested
Shoal Bay	4/04/2025	1	849	Seabreeze Pump Station 08:00	407	Surcharging	Yes	Ngataringa Stream	L1	Transmission	Small waterway	yes	no	no	yes	yes	not tested
Pahurehure Inlet	5/04/2025	1	687	PS 48 Manurewa West 17:01	300	Power Failure	No	Waimahia Creek	L1	Transmission	Estuary	yes	no	no	yes	yes	not tested
East Coast Bays	19/04/2025	1	947	Black Rock Pump Station 06:17	122	Surcharging	Yes	Thorne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	no info
Pukekohe	19/04/2025	1	1247	Cape Hill Road Pump Station 03:30	263	Surcharging	Yes	Whangapouri Creek	L1	Local	Large waterway	yes	no	no	no	yes	not tested
East Coast Bays	19/04/2025	1	871	Castor Bay Pump Station 03:02	34	Surcharging	Yes	Castor Bay Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Upper Harbour North	19/04/2025	1	874	Churchouse Road Pump Station 00:12	454	Surcharging	Yes	Greenhithe Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Upper Harbour North	19/04/2025	1	877	Kyle 1 Pump Station 00:32	60	Surcharging	No	Kyle Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Shoal Bay	19/04/2025	1	830	Lake Road (Northcote) Pump Station 00:19	445	Surcharging	Yes	Onepoto Stream	Unknown	Transmission	Estuary	yes	no	no	no	yes	no info
Henderson Creek	19/04/2025	1	692	PS 42 Te Atatu North 00:19	175	Surcharging	Yes	Estuary at Orukawai Point	Unknown	Transmission	Estuary	yes	no	no	no	yes	no info

Shoal Bay	19/04/2025	1	849	Seabreeze Pump Station	03:03	405	Surcharging	Yes	Ngataringa Stream	Unknown	Transmission	Small waterway	yes	yes	no	yes	yes	no info
Whangaparoa	19/04/2025	1	816	Stanmore Pump Station	02:49	172	Surcharging	Yes	Unnamed stream flowing to Stanmore Bay	Unknown	Local	Small waterway	yes	yes	no	no	yes	no info
Henderson Creek	1/05/2025	1	690	PS 44 Western	12:59	270	Power Failure	Yes	Henderson Creek (southern arm)	Unknown	Transmission	Estuary	yes	no	no	yes	yes	no info
East Coast Bays	9/05/2025	1	947	Black Rock Pump Station	20:17	629	Surcharging	Yes	Thorne Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	no info
East Coast Bays	9/05/2025	1	871	Castor Bay Pump Station	18:13	81	Surcharging	Yes	Castor Bay Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Upper Harbour North	9/05/2025	1	874	Churchouse Road Pump Station	18:32	63	Surcharging	Yes	Greenhithe Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Whangaparoa	9/05/2025	1	804	Hobbs Bay Pump Station	18:13	1500	Surcharging	No	Laurie Southwick Parade Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Devonport-Takapuna	9/05/2025	1	949	King Edward Storage Tanks	18:25	220	Surcharging	Yes	North Head	Unknown	Transmission	Harbour	yes	no	no	yes	yes	no info
Shoal Bay	9/05/2025	1	830	Lake Road (Northcote) Pump Station	12:30	589	Surcharging	Yes	Onepoto Stream	L2	Transmission	Estuary	yes	no	no	no	yes	no info
Devonport-Takapuna	9/05/2025	1	860	Northboro Pump Station	21:32	287	Surcharging	Yes	St Leonards Beach	Unknown	Transmission	Beach	yes	no	no	yes	yes	no info
Mangere	9/05/2025	1	680	PS 19 Otahuhu West	19:00	250	Surcharging	Yes	Tui Creek	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Upper Tamaki River	9/05/2025	1	683	PS 31 Otara	18:45	334	Surcharging	Yes	Upper Tamaki River (Middlemore Arm)	Unknown	Transmission	Estuary	yes	no	no	no	yes	no info
Henderson Creek	9/05/2025	1	692	PS 42 Te Atatu North	17:59	198	Surcharging	Yes	Estuary at Orukwai Point	Unknown	Transmission	Estuary	yes	no	no	no	yes	no info
Upper Tamaki River	9/05/2025	1	673	PS 43 Tamaki East	19:47	250	Surcharging	Yes	Upper Tamaki River	Unknown	Transmission	Estuary	yes	no	no	yes	yes	no info

Hobson Bay	9/05/2025	1	696	PS 64 Orakei	21:16	239	Surcharging	Yes	Okahu Bay	Unknown	Transmission	Beach	yes	no	no	yes	yes	no info
Whangapara oa	9/05/2025	1	816	Stanmore Pump Station	09:05	2067	Surcharging	Yes	Unnamed stream flowing to Stanmore Bay	L2	Transmission	Small waterway	yes	yes	no	no	yes	no info
Orewa	10/05/2025	1	1259	Orewa Pump Station	12:50	1075	Surcharging	No	Orewa river estuary	Unknown	Transmission	Estuary	yes	no	no	yes	yes	no info
Shoal Bay	10/05/2025	1	849	Seabreeze Pump Station	00:01	475	Surcharging	Yes	Ngataringa Stream	Unknown	Transmission	Small waterway	yes	yes	no	yes	yes	no info
Upper Tamaki River	27/05/2025	1	673	PS 43 Tamaki East	08:48	544	Surcharging	Yes	Upper Tamaki River	L1	Transmission	Estuary	yes	no	no	yes	yes	not tested
Henderson Creek	27/05/2025	1	690	PS 44 Western	17:18	21	Surcharging	Yes	Henderson Creek (southern arm)	L1	Transmission	Estuary	yes	no	no	yes	yes	not tested
Whangapara oa	29/05/2025	1	816	Stanmore Pump Station	05:00	480	Surcharging	Yes	Unnamed stream flowing to Stanmore Bay	L2	Local	Small waterway	yes	yes	no	no	yes	no info
Cockle Bay	3/06/2025	1	662	PS 30 Howick	10:48	157	Surcharging	Yes	Howick Beach	L2	Transmission	Beach	yes	no	no	yes	yes	no info
East Coast Bays	4/06/2025	1	947	Black Rock Pump Station	20:41	186	Surcharging	Yes	Thorne Bay	L2	Transmission	Beach	yes	no	no	yes	yes	no info
East Coast Bays	4/06/2025	1	869	Browns Bay Pump Station	23:00	215	Surcharging	Yes	Taiaotea Creek	L2	Transmission	Small waterway	yes	yes	no	yes	yes	no info
East Coast Bays	4/06/2025	1	871	Castor Bay Pump Station	21:07	90	Surcharging	Yes	Castor Bay Stream	L2	Transmission	Small waterway	yes	yes	no	no	yes	no info
Upper Harbour North	4/06/2025	1	874	Churchouse Road Pump Station	21:07	269	Surcharging	Yes	Greenhithe Stream	L2	Transmission	Small waterway	yes	yes	no	no	yes	no info
Shoal Bay	4/06/2025	1	830	Lake Road (Northcote) Pump Station	21:00	388	Surcharging	Yes	Onepoto Stream	L2	Transmission	Estuary	yes	no	no	no	yes	no info
Upper Tamaki River	4/06/2025	1	628	Panama Road Pump Station	21:39	113	Unknown	No	Otahuhu Creek	Unknown	Local	Estuary	yes	no	no	no	yes	no info
Lower Tamaki River	4/06/2025	1	682	PS 14 Glendowie	21:36	175	Surcharging	Yes	Glendowie Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info

Mangere	4/06/2025	1	680	PS 19 Otahuhu West	21:36	347	Surchargin g	Yes	Tui Creek	Unknown	Transmissi on	Small waterway	yes	yes	no	no	yes	no info
Cockle Bay	4/06/2025	1	662	PS 30 Howick	21:48	96	Surchargin g	Yes	Howick Beach	L2	Transmissi on	Beach	yes	no	no	yes	yes	no info
Upper Tamaki River	4/06/2025	1	683	PS 31 Otara	21:30	379	Surchargin g	Yes	Upper Tamaki River (Middlemor e Arm)	Unknown	Transmissi on	Estuary	yes	no	no	no	yes	no info
Upper Tamaki River	4/06/2025	1	465	PS 34 Otahuhu North East	21:41	157	Surchargin g	Yes	Otahuhu Creek	Unknown	Transmissi on	Estuary	yes	no	no	no	yes	no info
Upper Tamaki River	4/06/2025	1	673	PS 43 Tamaki East	21:06	356	Surchargin g	Yes	Upper Tamaki River	Unknown	Transmissi on	Estuary	yes	no	no	yes	yes	no info
Western Isthmus (Central Interceptor)	4/06/2025	1	701	PS 5 Oliver Road	20:54	137	Surchargin g	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Hobson Bay	4/06/2025	1	632	Purewa Road Pump Station	21:40	159	Surchargin g	No	To land	L2	Local	To land	no	yes	no	no	yes	no info
Whangapara oa	4/06/2025	1	816	Stanmore Pump Station	21:20	102	Surchargin g	Yes	Unnamed stream flowing to Stanmore Bay	Unknown	Transmissi on	Small waterway	yes	yes	no	no	yes	no info
Hobson Bay	5/06/2025	1	611	Gillies Avenue Pump Station	12:28	244	Surchargin g	No	To land	L1	Local	To land	no	no	no	no	yes	not tested
Devonport- Takapuna	5/06/2025	1	860	Northboro Pump Station	01:00	356	Surchargin g	Yes	St Leonards Beach	L2	Transmissi on	Beach	yes	no	no	yes	yes	no info
Hobson Bay	5/06/2025	1	696	PS 64 Orakei	01:37	913	Surchargin g	Yes	Okahu Bay	Unknown	Transmissi on	Beach	yes	no	no	yes	yes	no info
Shoal Bay	5/06/2025	1	849	Seabreeze Pump Station	03:05	404	Surchargin g	Yes	Ngataringa Stream	L2	Transmissi on	Small waterway	yes	yes	no	yes	yes	no info
Western Isthmus (Central Interceptor)	9/06/2025	1	701	PS 5 Oliver Road	09:08	28	Mechanica l/Maintena nce	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Onehunga	10/06/2025	1	209	Aldersgate Road 2 Pump Station	19:58	340	Unknown	Yes	Wesley Bay	L2	Local	Beach	yes	no	no	yes	yes	no info
Whau River	10/06/2025	1	44	Ash Street Pump Station	21:56	313	Unknown	No	Whau River Estuary	L2	Local	Estuary	yes	no	no	yes	yes	no info

Helensville	10/06/2025	1	1094	Outfall Pump Station	20:45	0	Unknown	No	Kaipara River	Unknown	Local	Large waterway	yes	yes	no	no	yes	no info
Western Isthmus (Central Interceptor)	10/06/2025	1	700	PS 12 Wainui Avenue	22:35	20	Unknown	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Lower Tamaki River	10/06/2025	1	682	PS 14 Glendowie	21:41	274	Surcharging	Yes	Glendowie Stream	Unknown	Transmission	Small waterway	yes	yes	no	no	yes	no info
Western Isthmus (Central Interceptor)	10/06/2025	1	701	PS 5 Oliver Road	19:55	292	Surcharging	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Shoal Bay	26/06/2025	1	884	Kawerau Pump Station	22:38	104	Surcharging	No	Ngataringa Bay	Unknown	Local	Estuary	yes	no	no	yes	yes	no info
Weiti	26/06/2025	1	822	Weiti Pump Station	21:47	239	Surcharging	Yes	Weiti River	Unknown	Local	Estuary	yes	no	no	yes	yes	no info
Onehunga	27/06/2025	1	208	Aldersgate Road 1 Pump Station	09:38	440	Surcharging	Yes	Unnamed stream (flowing to Wesley Bay)	L2	Local	Small waterway	yes	yes	no	yes	yes	no info
Onehunga	27/06/2025	1	209	Aldersgate Road 2 Pump Station	09:42	216	Surcharging	Yes	Wesley Bay	L2	Local	Beach	yes	no	no	yes	yes	no info
Devonport-Takapuna	27/06/2025	1	949	King Edward Storage Tanks	12:03	161	Surcharging	Yes	North Head	Unknown	Transmission	Harbour	yes	no	no	yes	yes	no info
Shoal Bay	27/06/2025	1	830	Lake Road (Northcote) Pump Station	09:52	400	Surcharging	Yes	Onepoto Stream	L1	Transmission	Estuary	yes	no	no	no	yes	not tested
Devonport-Takapuna	27/06/2025	1	860	Northboro Pump Station	14:35	161	Surcharging	Yes	St Leonards Beach	L1	Transmission	Beach	yes	no	no	yes	yes	not tested
Warkworth	27/06/2025	1	790	Palmer Pump Station	08:54	392	Surcharging	No	Mahurangi River	Unknown	Local	Large waterway	yes	yes	no	yes	yes	no info
Western Isthmus (Central Interceptor)	27/06/2025	1	700	PS 12 Wainui Avenue	09:37	10	Surcharging	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Lower Tamaki River	27/06/2025	1	682	PS 14 Glendowie	10:39	97	Surcharging	Yes	Glendowie Stream	L1	Transmission	Small waterway	yes	no	no	no	yes	not tested
Hobson Bay	27/06/2025	1	663	PS 17 Kohimarama	13:30	66	Surcharging	No	Madill's Stream	L1	Transmission	Small waterway	yes	no	no	no	yes	not tested

Mangere	27/06/2025	1	680	PS 19 Otahuhu West	11:13	338	Surchargin g	Yes	Tui Creek	L1	Transmissi on	Small waterway	yes	no	no	no	yes	not tested
Upper Tamaki River	27/06/2025	1	667	PS 28 Pakuranga	11:43	279	Surchargin g	No	Upper Tamaki River	L1	Transmissi on	Estuary	yes	no	no	yes	yes	not tested
Cockle Bay	27/06/2025	1	662	PS 30 Howick	10:25	165	Surchargin g	Yes	Howick Beach	L1	Transmissi on	Beach	yes	no	no	yes	yes	not tested
Upper Tamaki River	27/06/2025	1	683	PS 31 Otara	10:40	583	Surchargin g	Yes	Upper Tamaki River (Middlemor e Arm)	L1	Transmissi on	Estuary	yes	no	no	no	yes	not tested
Upper Tamaki River	27/06/2025	1	465	PS 34 Otahuhu North East	11:54	181	Surchargin g	Yes	Otahuhu Creek	L1	Transmissi on	Estuary	yes	no	no	no	yes	not tested
Henderson Creek	27/06/2025	1	692	PS 42 Te Atatu North	09:52	172	Surchargin g	Yes	Estuary at Orukwai Point	L1	Transmissi on	Estuary	yes	no	no	no	yes	not tested
Henderson Creek	27/06/2025	1	690	PS 44 Western	07:45	72	Surchargin g	Yes	Henderson Creek (southern arm)	L1	Transmissi on	Estuary	yes	no	no	yes	yes	not tested
Western Isthmus (Central Interceptor)	27/06/2025	1	701	PS 5 Oliver Road	09:54	110	Surchargin g	Yes	Meola Creek Mouth	L2	Local	Estuary	yes	no	no	yes	yes	no info
Hobson Bay	27/06/2025	1	696	PS 64 Orakei	16:21	60	Surchargin g	Yes	Okahu Bay	L1	Transmissi on	Beach	yes	no	no	yes	yes	not tested
Shoal Bay	27/06/2025	1	849	Seabreeze Pump Station	09:37	710	Surchargin g	Yes	Ngataringa Stream	L1	Transmissi on	Small waterway	yes	no	no	yes	yes	not tested
East Coast Bays	27/06/2025	1	951	Silverfield Storage Tank	09:38	492	Surchargin g	Yes	Wairau Stream	L1	Transmissi on	Small waterway	yes	no	no	no	yes	not tested
Whangapara oa	27/06/2025	1	816	Stanmore Pump Station	09:53	314	Surchargin g	Yes	Unnamed stream flowing to Stanmore Bay	L1	Transmissi on	Small waterway	yes	no	no	no	yes	not tested
Beachlands Maraetai	27/06/2025	1	1083	Third View Pump Station	09:40	500	Surchargin g	No	Unnamed stream to Kelly's Beach (North)	Unknown	Local	Small waterway	yes	yes	no	no	yes	no info

Table D-3 all Type-1 DWO trends

Facility Code	Name	Catchment	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2019-24	2020-25	Trend
DPSHR	School Road WWPS	Wellsford	1	0	3	0	0	0	0.8		0.6 Decreasing
DPWOR	Worker Road WWPS	Wellsford	5	1	0	1	1	1	1.6		0.8 Decreasing
DPKYH	Kellys Hill WWPS	Wellsford	0	1	0	2	1	0	0.8		0.8 No change
DPTHA	Te Hana WWPS	Wellsford	0	0	0	3	0	0	0.6		0.6 No change
DPARM	Armitage WWPS	Wellsford	3	0	1	4	0	0	1.6		1 Decreasing
DPLIL	Lilburn WWPS	Warkworth	1	0	0	1	0	0	0.4		0.2 Decreasing
DPPAL	Palmer WWPS	Warkworth	0	0	0	1	0	0	0.2		0.2 No change
DPDAL	Daltons WWPS	Snells Beach/Algies Bay	0	0	0	0	2	0	0.4		0.4 No change
DPCNL	Cornel WWPS	Snells Beach/Algies Bay	1	1	1	2	1	0	1.2		1 Decreasing
DPHMT	Hamatana WWPS	Snells Beach/Algies Bay	2	0	0	0	0	0	0.4		0 Decreasing
DPBTE	Brigitte WWPS	Snells Beach/Algies Bay	11	0	0	0	0	0	2.2		0 Decreasing
DPTMT	Tamatea WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No change
DPWWR	Waiwera Town WWPS	Waiwera	0	1	0	0	0	0	0.2		0.2 No change
DPOUT	Outfall WWPS	Helensville	0	0	0	0	0	0	0		0 No change
DPPAI	Parakai WWPS	Helensville	0	0	0	0	0	0	0		0 No change
DPSPR	Springs Road WWPS	Helensville	0	0	0	0	0	0	0		0 No change
DPKOW	Kowhai WWPS	Helensville	1	1	0	0	0	0	0.4		0.2 Decreasing
DPMRO	Miro Street WWPS	Helensville	0	0	0	1	0	0	0.2		0.2 No change
DPSTW	Stillwater WWPS	Weiti	0	0	0	3	1	0	0.8		0.8 No change
DPFOU	Foundry WWPS	Weiti	1	0	0	0	0	0	0.2		0 Decreasing
DPDUC	Duck Creek WWPS	Weiti	0	1	0	0	0	0	0.2		0.2 No change
DPBLU	Blue Gum WWPS	Weiti	0	0	0	1	0	0	0.2		0.2 No change
DPWEI	Weiti WWPS	Weiti	1	0	0	3	0	0	0.8		0.6 Decreasing
DPARK	Arkles Bay WWPS	Whangaparaoa	0	0	0	0	0	0	0		0 No change
DPPUA	Puawai WWPS	Whangaparaoa	1	0	0	0	0	0	0.2		0 Decreasing
DPSIE	Siesta WWPS	Whangaparaoa	0	0	1	0	0	0	0.2		0.2 No change
DPTER	Terminal WWPS	Whangaparaoa	0	0	1	0	0	0	0.2		0.2 No change
DPPIN	Pincrest WWPS	Whangaparaoa	0	0	0	1	0	0	0.2		0.2 No change
DPSWB	Swann Beach WWPS	Whangaparaoa	0	0	0	1	0	0	0.2		0.2 No change
DPBAY	Bay Street WWPS	Whangaparaoa	0	1	0	1	0	0	0.4		0.4 No change
DPGLG	Glenelg WWPS	Whangaparaoa	0	0	0	2	0	0	0.4		0.4 No change
DPOKR	Okura River Road WWPS	Long Bay	0	0	0	0	0	0	0		0 No change
DPPRO	Promenade WWPS	Devonport-Takapuna	0	0	1	0	0	0	0.2		0.2 No change
DPLNO	Lake Road (Northcote) WWPS	Shoal Bay	0	0	0	0	1	0	0.2		0.2 No change
DPKIL	Killarney WWPS	Shoal Bay	0	1	0	0	0	0	0.2		0.2 No change
DPSN2	Stanley Point 2 WWPS	Shoal Bay	0	0	1	0	0	0	0.2		0.2 No change
DPARH	Arahia WWPS	Shoal Bay	0	0	0	1	0	0	0.2		0.2 No change
DPSEA	Seabreeze WWPS	Shoal Bay	0	0	0	1	0	0	0.2		0.2 No change
DPATL	Atlas WWPS	Upper Harbour North	0	0	0	0	1	0	0.2		0.2 No change
DPKY1	Kyle 1 WWPS/Storage Tank	Upper Harbour North	1	0	0	0	0	0	0.2		0 Decreasing
DPRLE	Rosedale WWPS	Upper Harbour North	0	0	3	0	0	0	0.6		0.6 No change
DPMHO	Mahoney WWPS	Upper Harbour North	0	0	0	1	0	0	0.2		0.2 No change
DPVAN	Van Der Bilt WWPS	Upper Harbour North	0	0	1	2	0	0	0.6		0.6 No change
DPCHH	Churchouse Road Pump Station	Upper Harbour North	0	0	0	0	0	2	0		0.4 Increasing
DPKAH	Kahika WWPS	Upper Harbour South	0	0	0	0	0	0	0		0 No change
DPCRO	Cronin WWPS	Upper Harbour South	0	0	0	3	0	0	0.6		0.6 No change
DPHD1	Hadfield 1 WWPS	Upper Harbour South	0	0	0	4	0	0	0.8		0.8 No change

Facility Code	Name	Catchment	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2019-24	2020-25	Trend
DPTEN	Te Atatu North WWPS (PS42)	Henderson Creek	0	0	0	0	1	0	0.2		0.2 No change
DPFLN	Western WWPS (PS44)	Henderson Creek	0	0	0	0	1	0	0.2		0.2 No change
DPASH	Ash Street WWPS	Whau River	0	1	0	0	0	0	0.2		0.2 No change
DPKEY	Kenley Place WWPS	Whau River	0	0	0	0	1	0	0.2		0.2 No change
DPEND	Endeavour Street WWPS	Whau River	0	1	0	0	1	0	0.4		0.4 No change
DPPKI	Patiki Road WWPS	Whau River	0	0	0	0	0	0	0		0 No change
DPRB2	Rosebank Road 2 WWPS	Whau River	0	0	0	0	0	0	0		0 No change
DPTIM	Timothy Place WWPS	Whau River	0	0	0	0	0	0	0		0 No change
DPLEW	Lewis Street WWPS	Whau River	0	1	0	0	0	0	0.2		0.2 No change
DPRVD	Riversdale Road WWPS	Whau River	3	1	0	0	0	0	0.8		0.2 Decreasing
DPGLT	Gilleta Road WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No change
DPWNG	Wingate Street WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No change
DPKA2	Kauri Point Road 2 WWPS	Laingholm	0	0	0	1	0	0	0.2		0.2 No change
DPHU1	Huia Road 1 WWPS	Laingholm	0	0	0	3	0	0	0.6		0.6 No change
DPMAC	Macefield Avenue WWPS	Cox's Bay	0	0	0	0	0	0	0		0 No change
DPWEB	Webber Street WWPS	Cox's Bay	1	0	0	0	0	0	0.2		0 Decreasing
DPWNU	Wainui Ave WWPS (PS12)	Cox's Bay	0	1	0	0	0	0	0.2		0.2 No change
DPWPA	Westmere Park WWPS (PS6)	Cox's Bay	0	1	0	0	0	0	0.2		0.2 No change
DPCNH	Constitution Hill WWPS (PS13)	Central Auckland	0	0	0	0	6	0	1.2		1.2 No change
DPWTB	Waterbank Crescent WWPS	Central Auckland	0	0	0	0	0	0	0		0 No change
DPFRN	Farnham Street WWPS (PS1)	Central Auckland	0	0	0	1	0	0	0.2		0.2 No change
DPORM	Orakei WWPS (PS64)	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPSHO	Shore Rd WWPS (PS7)	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPGRA	Grand Drive WWPS	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPMCD	McDonald Crescent WWPS	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPPL1	Portland Road 1 WWPS	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPTON	Tonks Street WWPS	Hobson Bay	0	0	0	0	0	0	0		0 No change
DPSTF	Stonefield WWPS	Hobson Bay	1	0	0	0	0	0	0.2		0 Decreasing
DPSTH	St Heliers WWPS	Hobson Bay	1	0	0	0	0	0	0.2		0 Decreasing
DPGIL	Gillies Avenue WWPS	Hobson Bay	0	1	0	0	0	0	0.2		0.2 No change
DPPUR	Purewa Road WWPS	Hobson Bay	0	0	1	0	0	0	0.2		0.2 No change
DPHIM	Himalaya Crescent WWPS	Onehunga	0	0	0	0	0	0	0		0 No change
DPAL1	Aldersgate Road 1 WWPS	Onehunga	1	1	0	0	0	1	0.4		0.4 No change
DPWBG	Wesley Bay Glade Pump Station	Onehunga	0	0	0	0	0	1	0		0.2 Increasing
DPOTW	Otahuhu West WWPS (PS19)	Mangere	0	0	0	0	0	0	0		0 No change
DPSAL	Saleyards Road WWPS	Mangere	0	0	0	0	0	0	0		0 No change
DPRLA	Rosella Road WWPS	Mangere	2	0	0	0	0	0	0.4		0 Decreasing
DPRD2	Mount Richmond 2 WWPS	Mangere	0	1	0	0	0	0	0.2		0.2 No change
DPSAV	Savill Drive Link WWPS	Mangere	0	0	1	0	0	0	0.2		0.2 No change
DPENG	Pt England WWPS (PS15)	Lower Tamaki River	0	1	0	0	0	0	0.2		0.2 No change
DPPAB	Panmure Basin WWPS (PS18)	Lower Tamaki River	0	0	0	0	0	0	0		0 No change
DPRID	Riddell Road WWPS	Lower Tamaki River	0	0	0	0	0	0	0		0 No change
DPBEL	Belmere Rise WWPS	Lower Tamaki River	0	0	1	0	0	0	0.2		0.2 No change
DPMID	Middlemore WWPS (PS29)	Upper Tamaki River	0	0	0	0	0	0	0		0 No change
DPRNY	Rodney Street WWPS	Upper Tamaki River	0	1	0	0	0	0	0.2		0.2 No change
DPSPK	Sylvia Park WWPS (PS38)	Upper Tamaki River	0	0	0	0	0	0	0		0 No change
DPBNK	Banks Street WWPS	Upper Tamaki River	0	0	0	0	0	0	0		0 No change

Facility Code	Name	Catchment	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2019-24	2020-25	Trend
DPLAU	Laureston Avenue WWPS	Upper Tamaki River	0	0	0	0	0	0	0	0	0 No change
DPOTB	Otara WWPS (PS31)	Upper Tamaki River	0	0	0	0	0	0	0	0	0 No change
DPPKS	Pakuranga South WWPS (PS41)	Upper Tamaki River	0	0	0	0	0	0	0	0	0 No change
DPHIN	Pakuranga WWPS (PS28)	Upper Tamaki River	1	0	0	0	0	0	0.2	0	0 Decreasing
DPHIP	Highland Park WWPS	Upper Tamaki River	1	0	0	0	0	0	0.2	0	0 Decreasing
DPPAK	Pakuranga Road WWPS	Upper Tamaki River	3	0	0	0	0	0	0.6	0	0 Decreasing
DPAVI	Aviemore Drive WWPS	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPGOS	Gossamer Drive WWPS	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPHIB	Highbrook Park WWPS	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPMEN	Milen Avenue WWPS	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPOSN	Ormiston Rd WWPS (PS58)	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPPEL	Pelorus Place WWPS	Upper Tamaki River	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPHIS	Harris Road East Tamaki WWPS	Upper Tamaki River	0	0	6	0	0	0	1.2	1.2	1.2 No change
DPARW	Arwen Place WWPS	Upper Tamaki River	0	0	0	1	0	0	0.2	0.2	0.2 No change
DPHOW	Howick WWPS (PS 30)	Cockle Bay	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPEST	Estuary Views WWPS	Cockle Bay	0	0	5	0	0	0	1	1	1 No change
DPPPW	Papatoetoe West WWPS (PS20)	Puhinui	1	0	0	0	0	0	0.2	0	0 Decreasing
DPSET	Settlers Cove WWPS	Puhinui	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPWYM	Weymouth WWPS (PS47)	Pahurehure Inlet	0	0	1	0	1	0	0.4	0.4	0.4 No change
DPRYS	Roys Road WWPS	Pahurehure Inlet	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPBRM	Bremner Wastewater Pump Station	Pahurehure Inlet	0	0	10	0	0	0	2	2	2 No change
DPONR	Oneroa Waiheke WWPS	Oneroa	0	0	0	0	1	0	0.2	0.2	0.2 No change
DPMTI	Maraetai Domain WWPS	Beachlands Maraetai	1	0	0	0	0	0	0.2	0	0 Decreasing
DPOMA	Omana Esplanade WWPS	Beachlands Maraetai	1	0	0	0	0	0	0.2	0	0 Decreasing
DPTOO	Toomer Place WWPS	Beachlands Maraetai	1	0	0	0	0	0	0.2	0	0 Decreasing
DPCOL	Colson Lane WWPS	Beachlands Maraetai	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPKKA	Karaka Road WWPS	Beachlands Maraetai	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPNAV	New Avenues WWPS	Beachlands Maraetai	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPTPN	Te Pene WWPS	Beachlands Maraetai	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPTVW	Third view WWPS	Beachlands Maraetai	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPPHM	Pine Harbour Marina WWPS	Beachlands Maraetai	0	0	2	0	0	0	0.4	0.4	0.4 No change
DPEDP	Edgewater Parade WWPS	Waiuku	1	0	0	0	0	0	0.2	0	0 Decreasing
DPNZS	Elsie Drive WWPS	Waiuku	1	0	0	0	0	0	0.2	0	0 Decreasing
DPFGH	Fernleigh Avenue WWPS	Waiuku	0	0	1	1	0	0	0.4	0.4	0.4 No change
DPCHR	Cape Hill Road WWPS	Pukekohe	0	0	0	0	4	1	0.8	1	1 Increasing
DPFRA	Franklin Road WWPS	Pukekohe	0	0	0	1	1	0	0.4	0.4	0.4 No change
DPNES	North East WWPS	Pukekohe	1	0	0	0	0	0	0.2	0	0 Decreasing
DPLOC	Lochview WWPS	Pukekohe	0	1	0	0	0	0	0.2	0.2	0.2 No change
DPFRS	Fletchers WWPS	Pukekohe	0	0	1	0	0	0	0.2	0.2	0.2 No change
DPWEC	Wecks WWPS	Pukekohe	1	0	0	1	0	0	0.4	0.2	0.2 Decreasing
DPOLV	PS 5 Oliver Road WWPS (PS5)	Western Isthmus	0	1	0	0	0	0	0.2	0.2	0.2 No change
DPWIN	St George WWPS (PS25)	Western Isthmus	0	0	0	0	2	0	0.4	0.4	0.4 No change
DPHRB	Harbour View Rd WWPS (PS10)	Western Isthmus	0	1	0	0	0	0	0.2	0.2	0.2 No change
DPWA1	Walker Road 1 WWPS	Western Isthmus	0	0	1	0	0	0	0.2	0.2	0.2 No change
		Total DWOs	51	22	57	51	27	6	41.6	32.6	Decreasing

Table D-4 Type 1 WWO trends

Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPARM	Armitage WWPS	Wellsford	2	2	9	12	2	0	5.4		5 Decreasing
DPTHA	Te Hana WWPS	Wellsford	0	0	2	13	2	0	3.4		3.4 No Change
DPKYH	Kellys Hill WWPS	Wellsford	2	2	3	3	2	0	2.4		2 Decreasing
DPCEM	Cemetery WWPS	Wellsford	0	0	0	1	0	0	0.2		0.2 No Change
DPSHR	School Road WWPS	Wellsford	1	0	1	2	0	0	0.8		0.6 Decreasing
DPWOR	Worker Road WWPS	Wellsford	2	7	7	10	3	1	5.8		5.6 Decreasing
DPBRO	Broadlands WWPS	Omaha	0	1	3	2	0	0	1.2		1.2 No Change
DPMRI	Mangatawhiri WWPS	Omaha	0	0	0	1	0	0	0.2		0.2 No Change
DPSUC	Success Court WWPS	Omaha	0	0	1	1	1	0	0.6		0.6 No Change
DPLIL	Lilburn WWPS	Warkworth	0	3	5	8	1	0	3.4		3.4 No Change
DPPAL	Palmer WWPS	Warkworth	3	5	12	26	4	1	10		9.6 Decreasing
DPDAL	Daltons WWPS	Snells Beach/Algies Bay	0	0	3	9	2	0	2.8		2.8 No Change
DPBTE	Brigitte WWPS	Snells Beach/Algies Bay	16	21	27	0	0	0	12.8		9.6 Decreasing
DPCNL	Cornel WWPS	Snells Beach/Algies Bay	0	1	1	2	0	0	0.8		0.8 No Change
DPMBC	Martins Bay Camp WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No Change
DPMRN	Mariners WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No Change
DPRGH	Riverleigh Drive WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No Change
DPSNB	Sunburst Avenue WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No Change
DPTMT	Tamatea WWPS	Snells Beach/Algies Bay	0	0	2	4	2	0	1.6		1.6 No Change
DPWLJ	Willjames WWPS	Snells Beach/Algies Bay	0	0	0	1	0	0	0.2		0.2 No Change
DPWAC	Waiwera Camp WWPS	Waiwera	0	0	1	2	0	0	0.6		0.6 No Change
DPWWR	Waiwera Town WWPS	Waiwera	0	0	0	1	0	0	0.2		0.2 No Change
DPCIC	Chic WWPS	Helensville	0	1	0	2	1	0	0.8		0.8 No Change
DPKOW	Kowhai WWPS	Helensville	0	0	2	1	0	0	0.6		0.6 No Change
DPMIL	Mill Road WWPS	Helensville	0	0	0	3	0	0	0.6		0.6 No Change
DPMRO	Miro Street WWPS	Helensville	0	0	2	6	1	0	1.8		1.8 No Change
DPSPR	Springs Road WWPS	Helensville	0	0	0	4	0	0	0.8		0.8 No Change
DPOUT	Outfall WWPS	Helensville	1	2	2	4	1	1	2		2 No Change
DPFLO	Florence WWPS	Orewa	0	0	1	0	0	0	0.2		0.2 No Change
DPHAT	Hatfield's Beach WWPS	Orewa	1	2	1	2	0	0	1.2		1 Decreasing
DPJEL	Jelas WWPS	Orewa	0	1	0	0	0	0	0.2		0.2 No Change
DPMAY	Maygrove WWPS	Orewa	0	0	1	0	0	0	0.2		0.2 No Change
DPRVS	Riverside WWPS	Orewa	0	1	0	0	0	0	0.2		0.2 No Change
DPTAP	Tauranga Place WWPS	Orewa	0	0	1	0	0	0	0.2		0.2 No Change
DPORE	Orewa WWPS	Orewa	0	0	1	2	0	1	0.6		0.8 Increasing
DPWAD	Wade WWPS	Weiti	0	0	2	18	1	0	4.2		4.2 No Change
DPWEI	Weiti WWPS	Weiti	0	4	7	21	3	2	7		7.4 Increasing
DPBLU	Blue Gum WWPS	Weiti	0	1	1	5	0	0	1.4		1.4 No Change
DPDUC	Duck Creek WWPS	Weiti	0	0	2	6	0	0	1.6		1.6 No Change
DPFOU	Foundry WWPS	Weiti	0	1	0	0	0	0	0.2		0.2 No Change
DPSTW	Stillwater WWPS	Weiti	0	0	2	8	0	0	2		2 No Change
DPSTA	Stanmore WWPS	Whangaparaoa	0	0	3	11	5	5	3.8		4.8 Increasing
DPBAY	Bay Street WWPS	Whangaparaoa	2	0	4	10	3	0	3.8		3.4 Decreasing
DPARK	Arkles Bay WWPS	Whangaparaoa	0	0	0	6	1	0	1.4		1.4 No Change
DPCHE	Chelverton WWPS	Whangaparaoa	0	0	0	1	0	0	0.2		0.2 No Change
DPCOO	Cooper WWPS	Whangaparaoa	0	0	0	2	0	0	0.4		0.4 No Change
DPDUN	Duncansby WWPS	Whangaparaoa	0	0	1	0	0	0	0.2		0.2 No Change
DPGLG	Glenelg WWPS	Whangaparaoa	0	0	1	2	0	0	0.6		0.6 No Change
DPHUR	Hurdlow WWPS	Whangaparaoa	0	1	0	3	0	0	0.8		0.8 No Change

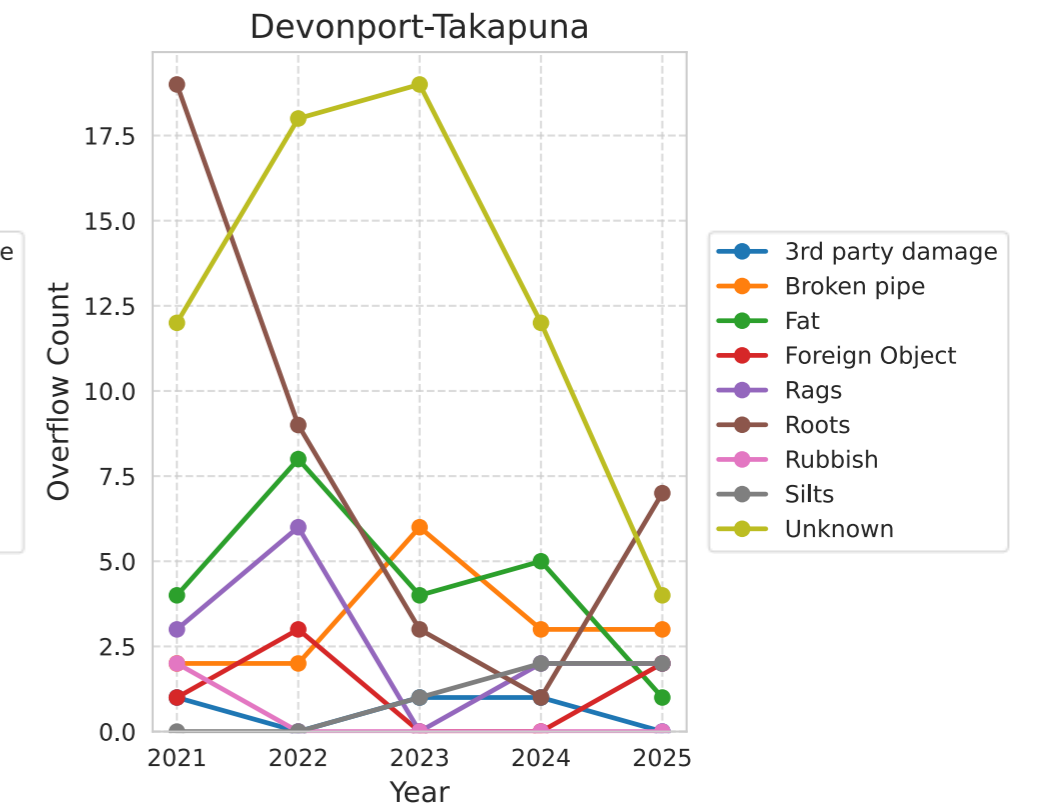
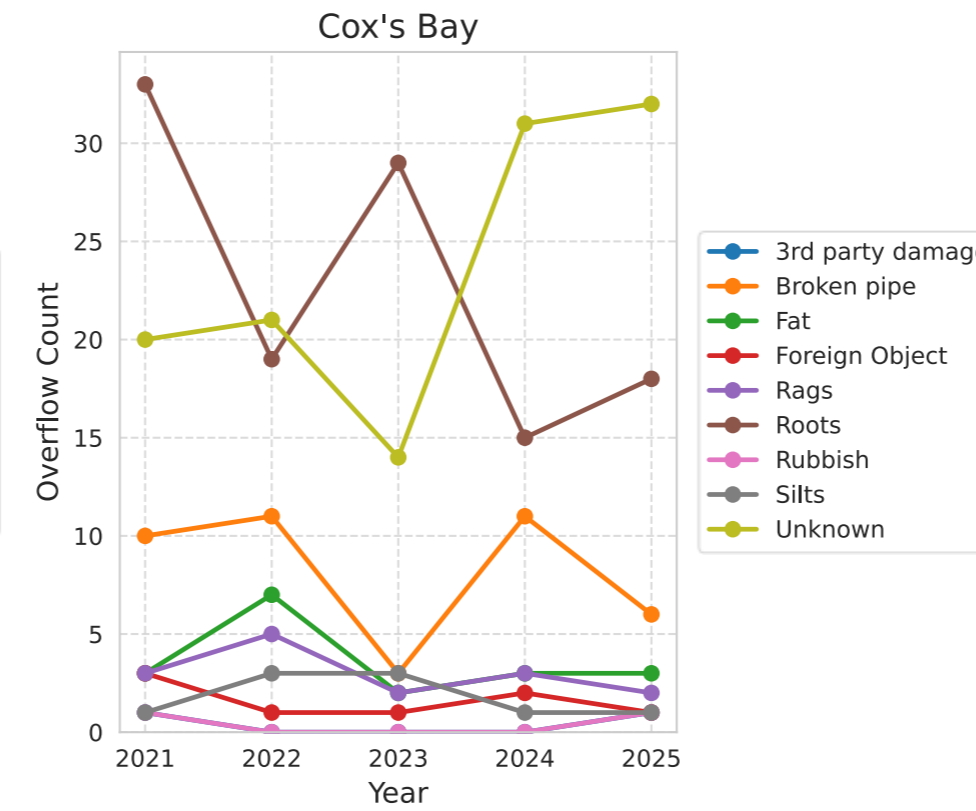
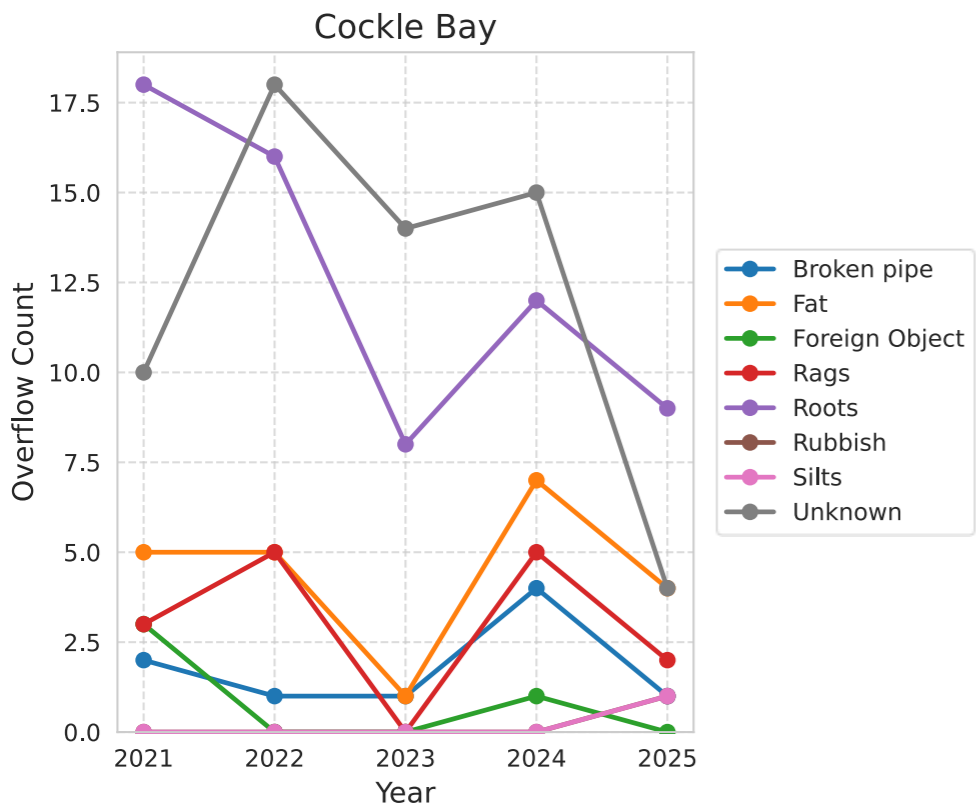
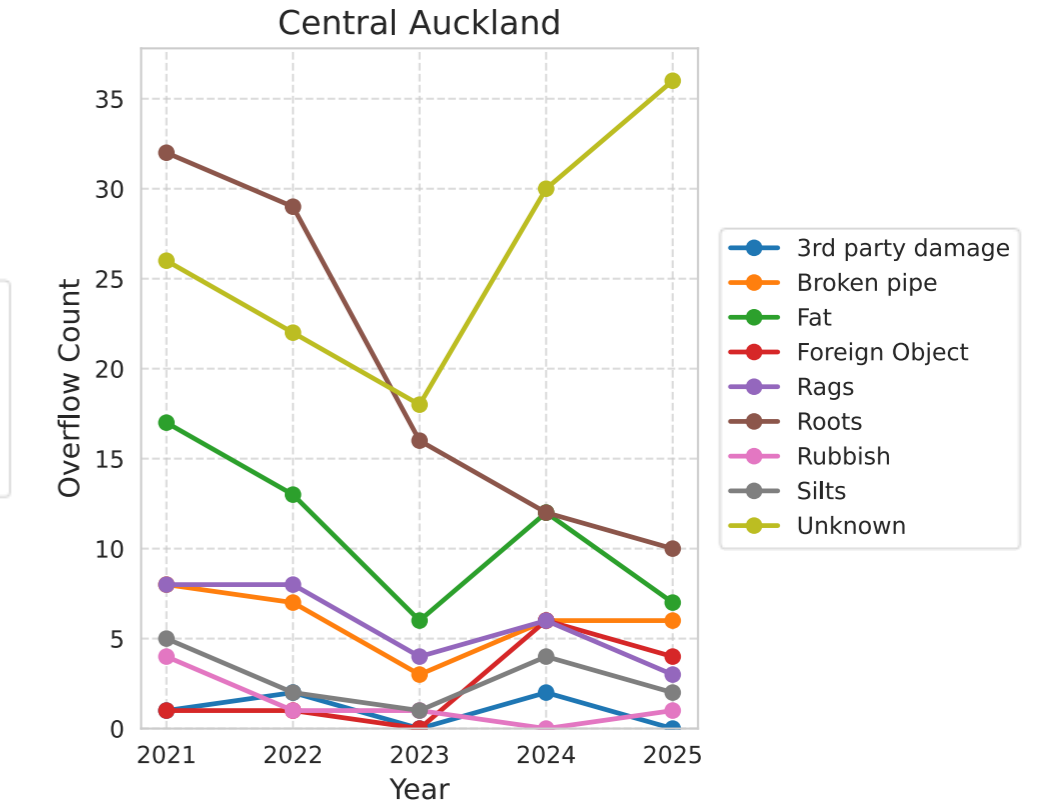
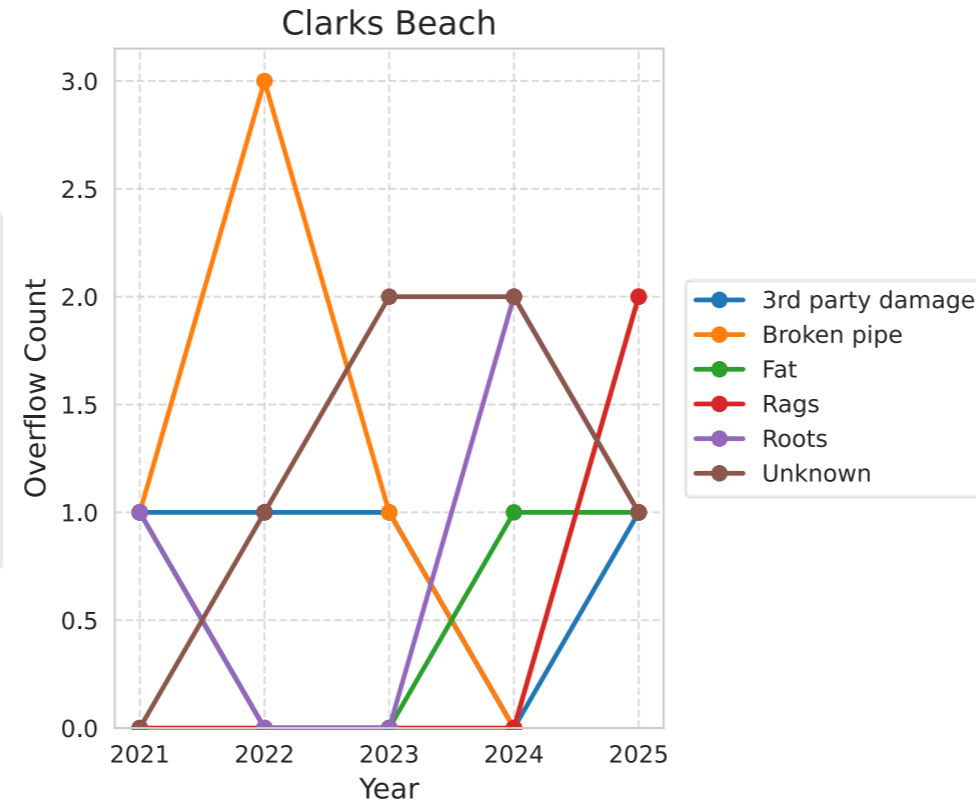
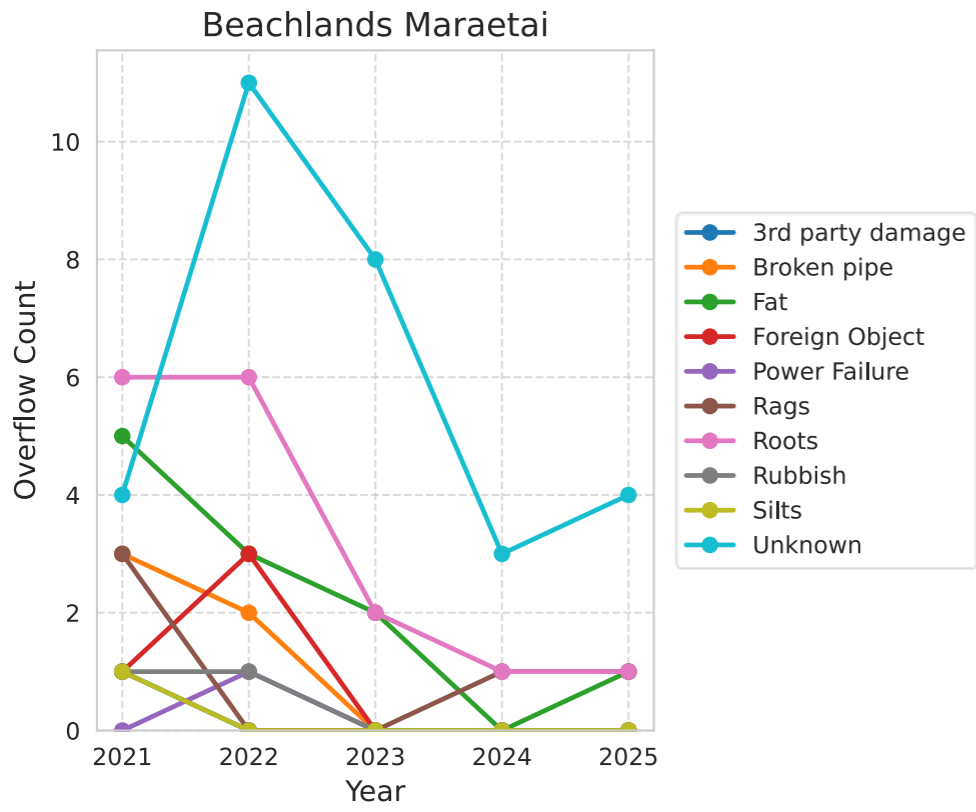
Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPISV	Island View WWPS	Whangaparaoa	0	0	0	0	1	0	0.2	0.2	0.2 No Change
DPLIT	Little Manly WWPS	Whangaparaoa	0	0	0	3	1	0	0.8	0.8	0.8 No Change
DPMET	Margaret WWPS	Whangaparaoa	0	0	0	0	0	0	0	0	0 No Change
DPMLY	Manly WWPS	Whangaparaoa	0	1	0	0	0	0	0.2	0.2	0.2 No Change
DPOKO	Okoromai WWPS	Whangaparaoa	0	0	2	0	0	0	0.4	0.4	0.4 No Change
DPORB	Orewa Bridge South WWPS	Whangaparaoa	0	0	1	4	0	0	1	1	1 No Change
DPPAC	Pacific WWPS	Whangaparaoa	0	0	1	2	0	0	0.6	0.6	0.6 No Change
DPPIN	Pincrest WWPS	Whangaparaoa	1	0	0	2	0	0	0.6	0.4	0.4 Decreasing
DPPOP	Poplar WWPS	Whangaparaoa	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPPUA	Puawai WWPS	Whangaparaoa	0	0	1	4	3	0	1.6	1.6	1.6 No Change
DPROB	Laguna Place WWPS	Whangaparaoa	0	0	2	0	0	0	0.4	0.4	0.4 No Change
DPSIE	Siesta WWPS	Whangaparaoa	0	1	0	1	0	0	0.4	0.4	0.4 No Change
DPSWB	Swann Beach WWPS	Whangaparaoa	0	0	0	2	0	0	0.4	0.4	0.4 No Change
DPTDL	Tindalls WWPS	Whangaparaoa	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPTER	Terminal WWPS	Whangaparaoa	0	0	1	0	0	0	0.2	0.2	0.2 No Change
DPHBB	Hobbs Bay WWPS	Whangaparaoa	0	0	1	2	0	1	0.6	0.8	0.8 Increasing
DPDEB	Deborah WWPS	Long Bay	0	0	0	10	0	0	2	2	2 No Change
DPOKR	Okura River Road WWPS	Long Bay	0	0	0	0	0	0	0	0	0 No Change
DPBLA	Black Rock WWPS	East Coast Bays	6	2	5	20	5	3	7.6	7	7 Decreasing
DPCBY	Castor Bay WWPS	East Coast Bays	4	1	3	6	6	3	4	3.8	3.8 Decreasing
DPALM	Alma WWPS	East Coast Bays	2	0	1	11	0	0	2.8	2.4	2.4 Decreasing
DPBRB	Browns Bay WWPS	East Coast Bays	3	0	2	8	2	2	3	2.8	2.8 Decreasing
DSSIL	Silverfield Wasterwater Storage Tank	East Coast Bays	0	0	3	2	4	2	1.8	2.2	2.2 Increasing
DPCHU	Churchill WWPS	East Coast Bays	0	0	2	7	0	0	1.8	1.8	1.8 No Change
DPCRA	Craig WWPS	East Coast Bays	0	0	1	1	0	0	0.4	0.4	0.4 No Change
DPERI	Eric Price WWPS	East Coast Bays	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPGYS	Grays WWPS	East Coast Bays	0	0	0	0	3	0	0.6	0.6	0.6 No Change
DPHM1	Hurstmere 1 WWPS	East Coast Bays	0	0	1	1	0	0	0.4	0.4	0.4 No Change
DPHM2	Hurstmere 2 WWPS	East Coast Bays	0	0	1	1	0	0	0.4	0.4	0.4 No Change
DPONA	Omana WWPS	East Coast Bays	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPSEW	Seaview WWPS	East Coast Bays	0	0	2	3	0	0	1	1	1 No Change
DPSI1	Sidmouth WWPS	East Coast Bays	1	0	2	5	4	0	2.4	2.2	2.2 Decreasing
DPALC	Albany Church WWPS	East Coast Bays	0	0	4	17	6	1	5.4	5.6	5.6 Increasing
DPWAU	Wairau WWPS	East Coast Bays	0	0	1	11	0	0	2.4	2.4	2.4 No Change
DPKED	King Edward WWPS	Devonport-Takapuna	0	0	0	0	0	0	0	0	0 No Change
DPPRO	Promenade WWPS	Devonport-Takapuna	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DSKED	King Edward Parade Storage Tank	Devonport-Takapuna	0	0	0	0	0	2	0	0.4	0.4 Increasing
DPLNO	Lake Road (Northcote) WWPS	Shoal Bay	0	5	9	25	6	5	9	10	10 Increasing
DPSEA	Seabreeze WWPS	Shoal Bay	0	4	14	15	8	5	8.2	9.2	9.2 Increasing
DPNRO	Northboro WWPS	Shoal Bay	2	0	4	8	3	3	3.4	3.6	3.6 Increasing
DPAFD	Alfred WWPS	Shoal Bay	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPARH	Araha WWPS	Shoal Bay	0	0	1	3	0	0	0.8	0.8	0.8 No Change
DPBPO	Barrys Point Local WWPS	Shoal Bay	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPEXM	Exmouth WWPS	Shoal Bay	0	0	1	2	0	0	0.6	0.6	0.6 No Change
DPHNM	Hinemoa WWPS	Shoal Bay	0	1	0	0	0	0	0.2	0.2	0.2 No Change
DPHOM	Homewood WWPS	Shoal Bay	0	0	0	1	0	0	0.2	0.2	0.2 No Change
DPJIM	Jim Tichener WWPS	Shoal Bay	0	0	1	5	2	0	1.6	1.6	1.6 No Change
DPMNI	Maunganui WWPS/Storage Tank	Shoal Bay	0	0	0	0	0	0	0	0	0 No Change
DPSFE	Seacliffe WWPS	Shoal Bay	0	0	0	0	0	0	0	0	0 No Change

Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPSN2	Stanley Point 2 WWPS	Shoal Bay	0	0	1	4	2	0	1.4		1.4 No Change
DPKAW	Kawerau WWPS	Shoal Bay	0	0	1	0	0	1	0.2		0.4 Increasing
DPCHH	Churchouse Road WWPS	Upper Harbour North	1	0	2	5	1	3	1.8		2.2 Increasing
DPALY	Aberley WWPS	Upper Harbour North	0	0	0	1	0	0	0.2		0.2 No Change
DPATL	Atlas WWPS	Upper Harbour North	0	0	0	1	0	0	0.2		0.2 No Change
DPAWA	Awatahi WWPS	Upper Harbour North	0	0	0	0	0	0	0		0 No Change
DPBUS	Bush WWPS	Upper Harbour North	0	0	0	1	0	0	0.2		0.2 No Change
DPKY2	Kyle 2 WWPS	Upper Harbour North	0	0	0	1	0	0	0.2		0.2 No Change
DPRLE	Rosedale WWPS	Upper Harbour North	0	0	2	0	0	0	0.4		0.4 No Change
DPVAN	Van Der Bilt WWPS	Upper Harbour North	0	0	0	2	0	0	0.4		0.4 No Change
DPKY1	Kyle 1 WWPS/Storage Tank	Upper Harbour North	2	1	3	0	1	1	1.4		1.2 Decreasing
DPMSN	PS 69 Massey North WW PS	Upper Harbour West	0	0	0	0	0	1	0		0.2 Increasing
DPCRO	Cronin WWPS	Upper Harbour South	2	5	5	25	8	1	9		8.8 Decreasing
DPHD1	Hadfield 1 WWPS	Upper Harbour South	0	0	0	1	0	0	0.2		0.2 No Change
DPISL	Island Bay WWPS	Upper Harbour South	0	1	0	1	2	0	0.8		0.8 No Change
DPKAH	Kahika WWPS	Upper Harbour South	4	1	1	3	0	0	1.8		1 Decreasing
DPMVA	Mariners View WWPS	Upper Harbour South	0	0	0	1	0	0	0.2		0.2 No Change
DPVIA	Valkyria WWPS	Upper Harbour South	1	0	0	0	0	0	0.2		0 Decreasing
DPHI1	Herald Island No 1 WWPS	Upper Harbour West	0	0	0	0	0	0	0		0 No Change
DPHI2	Herald Island No 2 WWPS	Upper Harbour West	0	0	1	2	0	0	0.6		0.6 No Change
DPHOP	PS 70 Hobsonville Peninsula WWPS	Upper Harbour West	0	0	1	0	0	0	0.2		0.2 No Change
DPTCV	The Cove WWPS	Upper Harbour West	0	0	1	0	0	0	0.2		0.2 No Change
DPWEM	Westpark Marina WWPS	Upper Harbour West	0	0	0	1	0	0	0.2		0.2 No Change
DPTEN	Te Atatu North WWPS (PS42)	Henderson Creek	6	3	5	25	8	3	9.4		8.8 Decreasing
DPFLN	Western WWPS (PS44)	Henderson Creek	12	4	3	20	5	3	8.8		7 Decreasing
DPDAR	Darcy Place WWPS	Henderson Creek	0	0	0	1	0	0	0.2		0.2 No Change
DPEAS	Easter Parade WWPS	Henderson Creek	0	0	0	0	0	0	0		0 No Change
DPARC	Archibald Road WWPS	Whau River	0	0	0	4	0	0	0.8		0.8 No Change
DPARP	Archibald Park WWPS	Whau River	0	0	2	2	0	0	0.8		0.8 No Change
DPBED	Bedford Street WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No Change
DPBNC	Bancroft Crescent WWPS	Whau River	0	0	0	2	0	0	0.4		0.4 No Change
DPEND	Endeavour Street WWPS	Whau River	0	0	0	1	2	0	0.6		0.6 No Change
DPESM	Esmeralda Avenue WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No Change
DPGLT	Gilletta Road WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No Change
DPHS1	Holly Street 1 WWPS	Whau River	0	0	0	1	1	0	0.4		0.4 No Change
DPHS2	Holly Street 2 WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No Change
DPHUG	Hugh Brown Drive WWPS	Whau River	0	0	0	1	0	0	0.2		0.2 No Change
DPKEY	Kenley Place WWPS	Whau River	0	0	0	0	0	0	0		0 No Change
DPLEW	Lewis Street WWPS	Whau River	0	0	0	2	0	0	0.4		0.4 No Change
DPLID	Lidcombe Place WWPS	Whau River	1	0	0	0	0	0	0.2		0 Decreasing
DPRVD	Riversdale Road WWPS	Whau River	0	0	0	2	0	0	0.4		0.4 No Change
DPTIM	Timothy Place WWPS	Whau River	0	0	0	0	0	0	0		0 No Change
DPWNG	Wingate Street WWPS	Whau River	0	0	0	2	0	0	0.4		0.4 No Change
DPWOO	Wood Bay Road WWPS	Whau River	0	0	0	2	0	0	0.4		0.4 No Change
DPASH	Ash Street WWPS	Whau River	2	1	0	1	2	1	1.2		1 Decreasing
DPDAV	Davies Bay WWPS	Laingholm	0	0	0	3	0	0	0.6		0.6 No Change
DPDOR	Dorothy Road WWPS	Laingholm	0	0	1	4	0	0	1		1 No Change
DPFRE	French Bay WWPS	Laingholm	0	0	0	2	0	0	0.4		0.4 No Change
DPHW1	Hollywood Avenue 1 WWPS	Laingholm	0	0	0	3	0	0	0.6		0.6 No Change

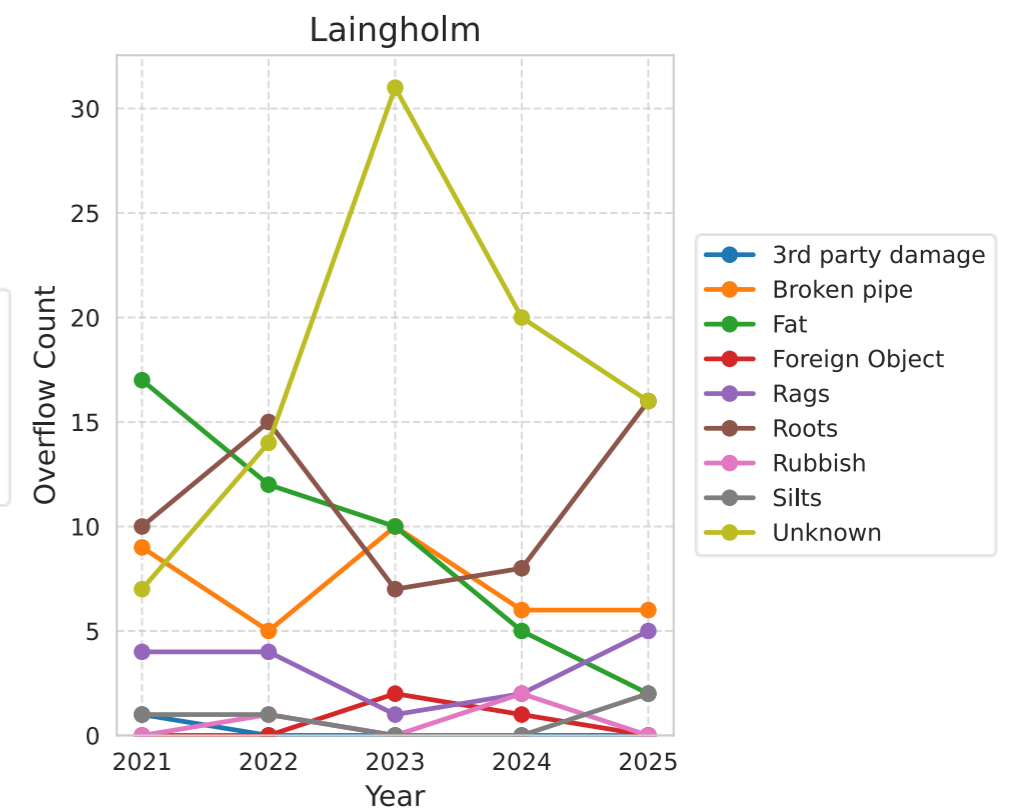
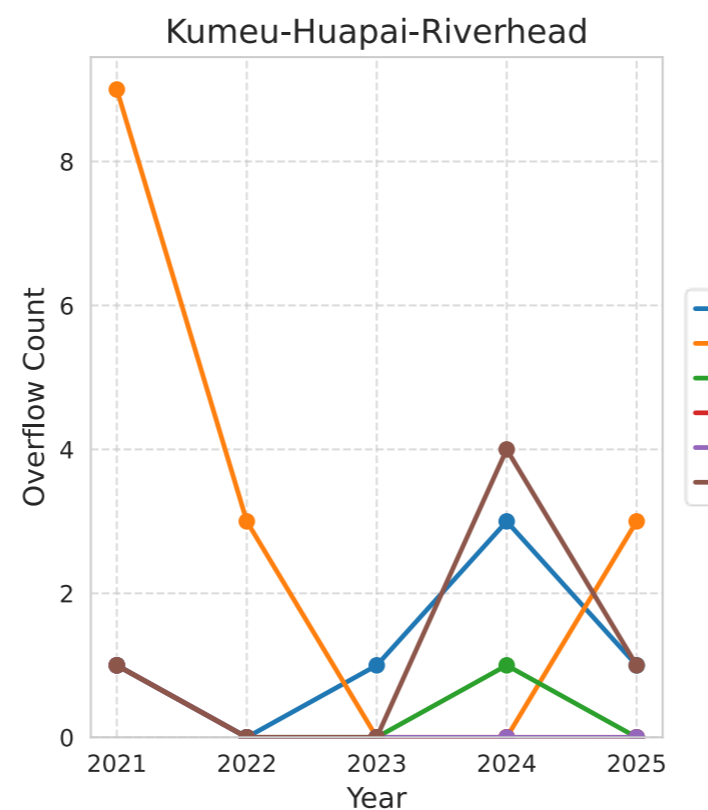
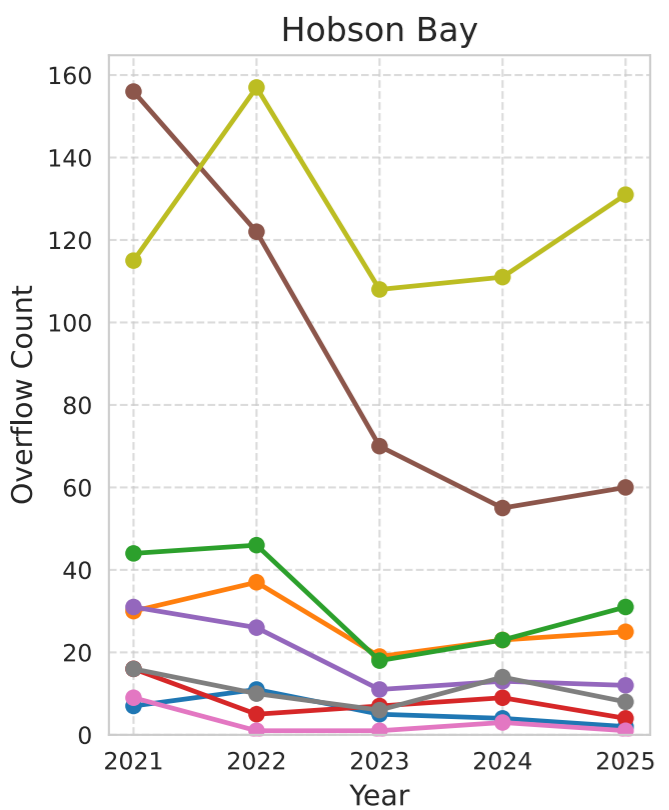
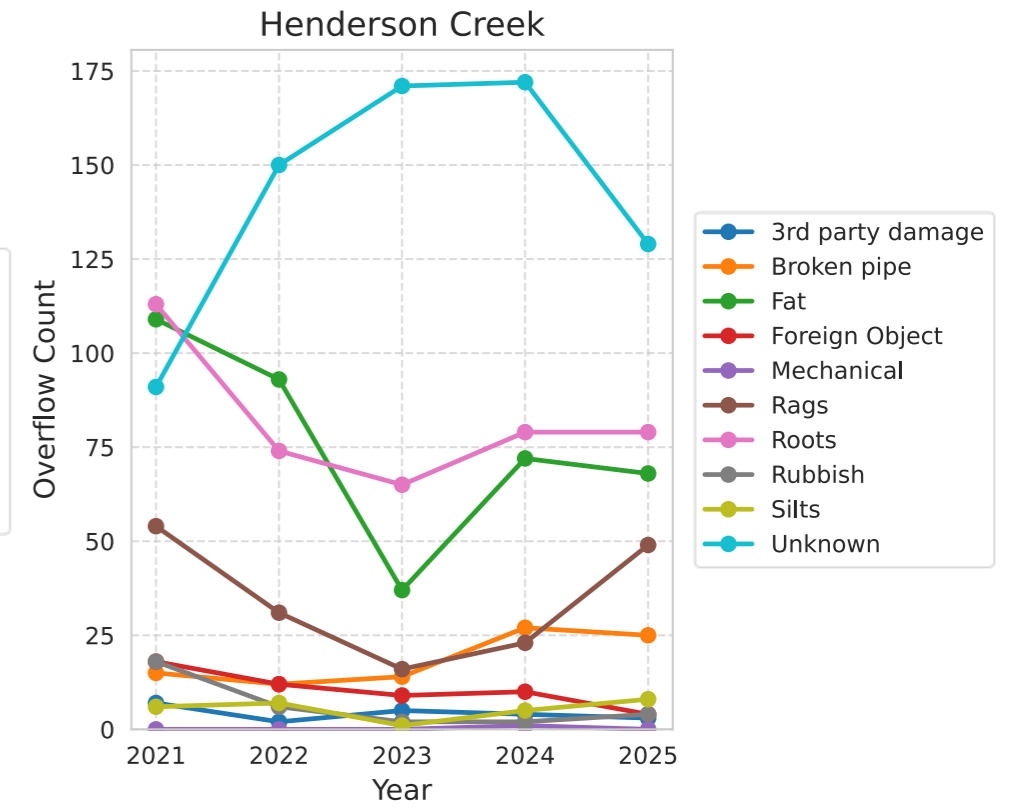
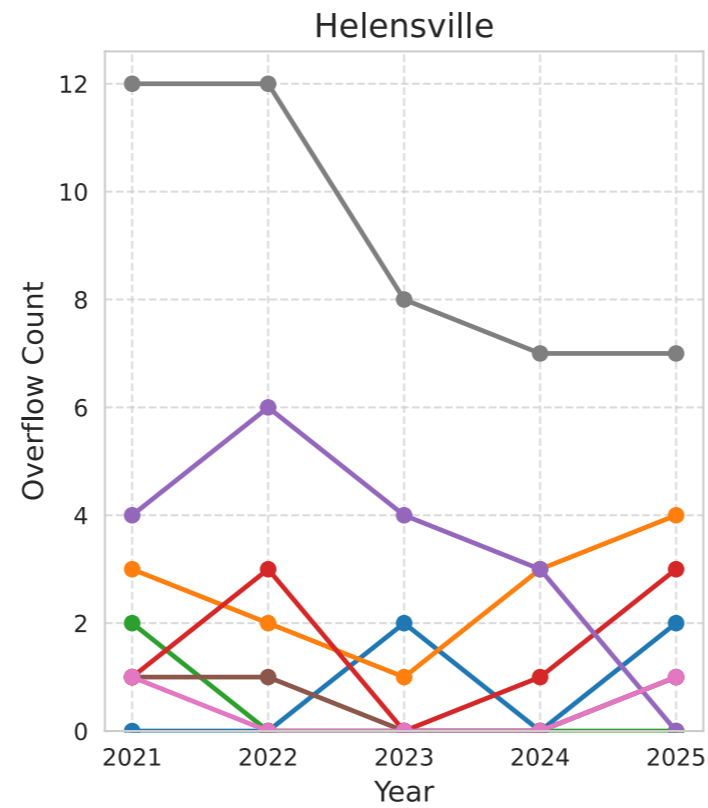
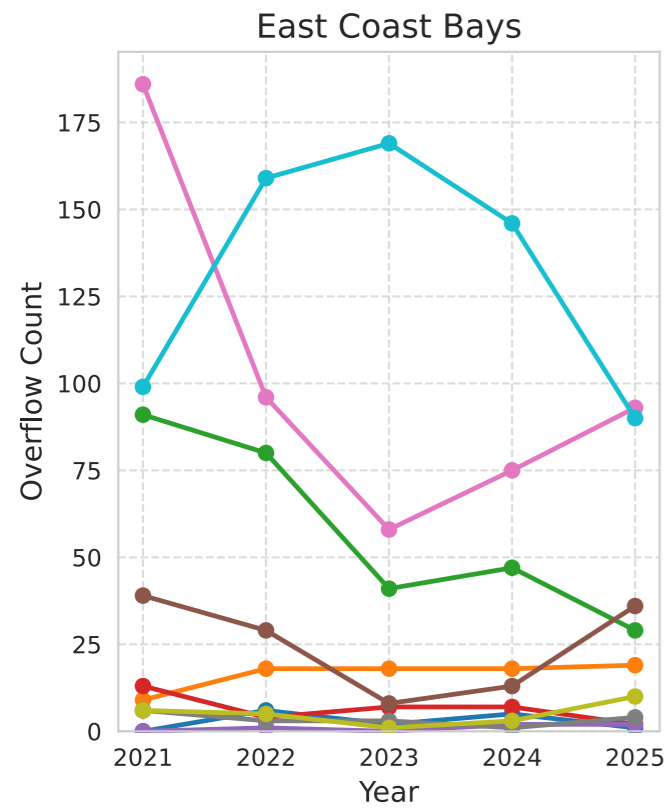
Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPJEN	Jenkins Bay WWPS	Laingholm	0	0	0	1	0	0	0	0.2	0.2 No Change
DPKA1	Kauri Point Road 1 WWPS	Laingholm	0	0	1	1	0	0	0	0.4	0.4 No Change
DPLAI	Laingholm Drive WWPS	Laingholm	0	0	0	3	0	0	0	0.6	0.6 No Change
DPLNG	Laingholm WWPS (PS60)	Laingholm	0	0	0	1	0	0	0	0.2	0.2 No Change
DPTR2	Tamariki Reserve 2 WWPS	Laingholm	0	0	0	0	0	0	0	0	0 No Change
DPWDB	Wood Bay WWPS (PS59)	Laingholm	0	0	0	1	0	0	0	0.2	0.2 No Change
DPWNU	Wainui Ave WWPS (PS12)	Cox's Bay	0	0	1	0	0	0	2	0.2	0.6 Increasing
DPEDC	Edgars Creek WWPS (PS51)	Cox's Bay	0	0	0	4	0	0	0	0.8	0.8 No Change
DPWEB	Webber Street WWPS	Cox's Bay	1	0	1	0	1	0	0	0.6	0.4 Decreasing
DPWPA	Westmere Park WWPS (PS6)	Cox's Bay	0	0	0	0	0	0	0	0	0 No Change
DPCNH	Constitution Hill WWPS (PS13)	Central Auckland	0	0	0	3	0	0	0	0.6	0.6 No Change
DPFAN	Fanshawe Street WWPS (PS4)	Central Auckland	0	0	0	3	0	0	0	0.6	0.6 No Change
DPFRN	Farnham Street WWPS (PS1)	Central Auckland	0	0	0	4	1	0	0	1	1 No Change
DPORM	Orakei WWPS (PS64)	Hobson Bay	4	0	1	1	4	3	2	2	1.8 Decreasing
DPPUR	Purewa Road WWPS	Hobson Bay	2	0	2	6	5	1	3	3	2.8 Decreasing
DPATK	Atkin Avenue WWPS	Hobson Bay	0	0	0	0	0	0	0	0	0 No Change
DPJRP	John Rymer Place WWPS	Hobson Bay	2	0	1	2	2	0	1.4	1	1 Decreasing
DPMCD	McDonald Crescent WWPS	Hobson Bay	0	0	0	0	0	0	0	0	0 No Change
DPMEA	Meadowbank Road WWPS	Hobson Bay	0	0	0	0	0	0	0	0	0 No Change
DPPL2	Portland Road 2 WWPS	Hobson Bay	0	0	0	1	0	0	0	0.2	0.2 No Change
DPSHO	Shore Rd WWPS (PS7)	Hobson Bay	0	0	0	2	0	0	0	0.4	0.4 No Change
DPSPE	Stanhope Road WWPS	Hobson Bay	1	0	0	1	0	0	0	0.4	0.2 Decreasing
DPTYC	Tamaki Yacht Club WWPS	Hobson Bay	0	0	0	0	0	0	0	0	0 No Change
DPGIL	Gillies Avenue WWPS	Hobson Bay	0	0	0	0	1	1	1	0.2	0.4 Increasing
DPKOH	Kohimarama WWPS (PS17)	Hobson Bay	0	0	0	1	1	1	1	0.4	0.6 Increasing
DPAL1	Aldersgate Road 1 WWPS	Onehunga	7	3	1	2	2	2	2	3	2 Decreasing
DPAL2	Aldersgate Road 2 WWPS	Onehunga	2	2	1	0	2	2	2	1.4	1.4 No Change
DPBJD	Ben James Drive WWPS	Onehunga	1	0	0	0	0	0	0	0.2	0 Decreasing
DPGOD	Godwit Place WWPS	Onehunga	0	0	0	0	0	0	0	0	0 No Change
DPHBH	Hillsborough Road WWPS	Onehunga	0	0	0	0	0	0	0	0	0 No Change
DPLYF	Lynfield WWPS (PS24)	Onehunga	0	2	0	0	0	0	0	0.4	0.4 No Change
DPONE	Hillsborough WWPS (PS23)	Onehunga	2	0	0	0	0	0	0	0.4	0 Decreasing
DPONT	Onehunga WWPS (PS21)	Onehunga	0	0	0	1	1	0	0	0.4	0.4 No Change
DPPPT	Pikes Point WWPS (PS52)	Onehunga	0	0	0	1	0	0	0	0.2	0.2 No Change
DPSMT	Mt Smart WWPS (PS22)	Onehunga	0	0	1	3	0	0	0	0.8	0.8 No Change
DPWAL	Walls Road WWPS	Onehunga	0	0	0	0	1	0	0	0.2	0.2 No Change
DPWBG	Wesley Bay Glade WWPS	Onehunga	0	0	0	4	0	0	0	0.8	0.8 No Change
DPOTW	Otahuhu West WWPS (PS19)	Mangere	1	1	0	16	4	3	4.4	4.4	4.8 Increasing
DPBCH	Beach Road WWPS	Mangere	0	0	1	0	0	0	0	0.2	0.2 No Change
DPHRD	Huia Road WWPS	Mangere	1	0	0	0	0	0	0	0.2	0 Decreasing
DPJFD	James Fletcher Drive WWPS	Mangere	0	0	2	0	0	0	0	0.4	0.4 No Change
DPKIW	Kiwi Esplanade WWPS	Mangere	0	0	0	1	0	0	0	0.2	0.2 No Change
DPLAM	Lambie Court WWPS	Mangere	0	0	0	0	0	0	0	0	0 No Change
DPMCK	Mckenzie Road WWPS	Mangere	0	0	0	2	0	0	0	0.4	0.4 No Change
DPMGB	Mangere Bridge WWPS (PS36)	Mangere	0	0	0	3	0	0	0	0.6	0.6 No Change
DPMIR	Miro Road WWPS	Mangere	1	0	0	0	0	0	0	0.2	0 Decreasing
DPNRN	Norana Avenue WWPS	Mangere	0	0	0	1	0	0	0	0.2	0.2 No Change
DPRLA	Rosella Road WWPS	Mangere	0	0	0	1	0	0	0	0.2	0.2 No Change
DPRUA	Ruaiti Road WWPS	Mangere	0	0	0	1	0	0	0	0.2	0.2 No Change

Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPSAL	Saleyards Road WWPS	Mangere	0	0	1	0	0	0	0	0.2	0.2 No Change
DPSYL	Sylvia Park WWPS	Mangere	0	0	0	0	0	0	0	0	0 No Change
DPTRC	Black Bridge WWPS (PS37)	Mangere	0	0	0	3	1	0	0.8	0.8	No Change
DPOTN	Otahuhu North WWPS (PS32)	Mangere	1	1	0	0	0	0	0.4	0.2	Decreasing
DPENG	Pt England WWPS (PS15)	Lower Tamaki River	11	4	0	1	10	0	5.2	3	Decreasing
DPGND	Glendowie WWPS (PS14)	Lower Tamaki River	3	0	2	12	5	3	4.4	4.4	No Change
DPBEL	Belmere Rise WWPS	Lower Tamaki River	1	0	2	0	1	0	0.8	0.6	Decreasing
DPBRA	Bramley Drive WWPS	Lower Tamaki River	1	0	1	1	1	0	0.8	0.6	Decreasing
DPDNK	Dunkirk WWPS (PS53)	Lower Tamaki River	0	0	0	0	1	0	0.2	0.2	No Change
DPMNR	Manor Park WWPS	Lower Tamaki River	3	0	0	1	0	0	0.8	0.2	Decreasing
DPPAB	Panmure Basin WWPS (PS18)	Lower Tamaki River	0	0	0	3	1	0	0.8	0.8	No Change
DPRID	Riddell Road WWPS	Lower Tamaki River	0	0	1	1	0	0	0.4	0.4	No Change
DPTBD	Tamaki Bay Drive WWPS	Lower Tamaki River	2	0	0	1	0	0	0.6	0.2	Decreasing
DSGLD	Glendowie Branch Storage Tank	Lower Tamaki River	0	0	4	1	0	0	1	1	No Change
DPOTB	Otara WWPS (PS31)	Upper Tamaki River	4	1	0	19	9	5	6.6	6.8	Increasing
DPTIN	Tamaki East WWPS (PS43)	Upper Tamaki River	0	0	0	17	10	5	5.4	6.4	Increasing
DPOTA	Otahuhu North East WWPS (PS34)	Upper Tamaki River	3	0	1	10	4	2	3.6	3.4	Decreasing
DPARW	Arwen Place WWPS	Upper Tamaki River	0	0	0	4	0	0	0.8	0.8	No Change
DPAVI	Aviemore Drive WWPS	Upper Tamaki River	0	0	0	0	0	0	0	0	No Change
DPBUR	Burswood Drive WWPS	Upper Tamaki River	1	0	0	0	0	0	0.2	0	Decreasing
DPCAS	Cascades Road WWPS	Upper Tamaki River	1	0	0	0	0	0	0.2	0	Decreasing
DPEDG	Edgewater Drive WWPS	Upper Tamaki River	1	0	0	1	0	0	0.4	0.2	Decreasing
DPGOS	Gossamer Drive WWPS	Upper Tamaki River	0	0	2	2	2	0	1.2	1.2	No Change
DPHIP	Highland Park WWPS	Upper Tamaki River	4	0	2	2	2	0	2	1.2	Decreasing
DPHIS	Harris Road East Tamaki WWPS	Upper Tamaki River	2	0	0	0	0	0	0.4	0	Decreasing
DPLAU	Laureston Avenue WWPS	Upper Tamaki River	1	0	0	0	0	0	0.2	0	Decreasing
DPMEN	Milen Avenue WWPS	Upper Tamaki River	2	0	0	0	0	0	0.4	0	Decreasing
DPMID	Middlemore WWPS (PS29)	Upper Tamaki River	1	0	0	0	0	0	0.2	0	Decreasing
DPMNG	Mangos Place WWPS	Upper Tamaki River	1	0	1	1	0	0	0.6	0.4	Decreasing
DPPAK	Pakuranga Road WWPS	Upper Tamaki River	3	0	0	0	0	0	0.6	0	Decreasing
DPPEL	Pelorus Place WWPS	Upper Tamaki River	3	0	0	2	1	0	1.2	0.6	Decreasing
DPPKS	Pakuranga South WWPS (PS41)	Upper Tamaki River	0	0	0	0	0	0	0	0	No Change
DPRNY	Rodney Street WWPS	Upper Tamaki River	0	0	0	0	0	0	0	0	No Change
DPSPK	Sylvia Park WWPS (PS38)	Upper Tamaki River	1	0	1	4	1	0	1.4	1.2	Decreasing
DPHIN	Pakuranga WWPS (PS28)	Upper Tamaki River	1	1	0	4	1	1	1.4	1.4	No Change
DPUND	Undine Street WWPS	Upper Tamaki River	1	0	0	2	0	0	0.6	0.4	Decreasing
DPPNA	Panama Road WWPS	Upper Tamaki River	1	0	0	2	2	1	1	1	No Change
DPHOW	Howick WWPS (PS 30)	Cockle Bay	1	0	0	8	2	3	2.2	2.6	Increasing
DPBBH	Bucklands Beach WWPS (PS33)	Cockle Bay	1	0	0	4	0	0	1	0.8	Decreasing
DPEST	Estuary Views WWPS	Cockle Bay	0	0	1	0	0	0	0.2	0.2	No Change
DPPPW	Papatoetoe West WWPS (PS20)	Puhinui	0	0	0	1	0	0	0.2	0.2	No Change
DPPUH	Puhinui WWPS (PS45)	Puhinui	0	0	0	0	0	0	0	0	No Change
DPTID	Mangere South East WWPS (PS66)	Puhinui	0	0	0	1	0	0	0.2	0.2	No Change
DPWYN	Weymouth North WWPS (PS56)	Puhinui	0	0	0	0	0	0	0	0	No Change
DPBRM	Bremner Wastewater Pump Station	Pahurehure Inlet	0	0	1	1	0	0	0.4	0.4	No Change
DPHNG	Hingaia WWPS (PS63)	Pahurehure Inlet	3	0	0	7	0	0	2	1.4	Decreasing
DPMAW	Manurewa West WWPS (PS48)	Pahurehure Inlet	2	0	0	3	0	1	1	0.8	Decreasing
DPRYS	Roys Road WWPS	Pahurehure Inlet	0	0	0	1	0	0	0.2	0.2	No Change
DPSIN	Manurewa South WWPS (PS84)	Pahurehure Inlet	0	0	0	0	0	0	0	0	No Change

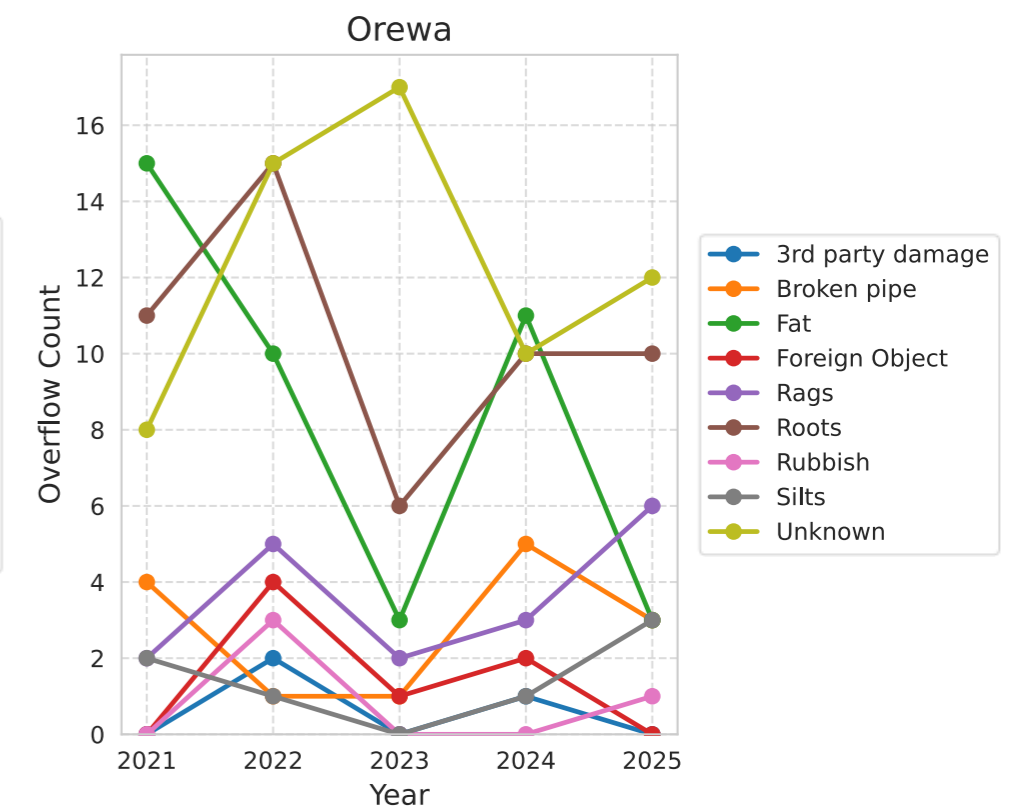
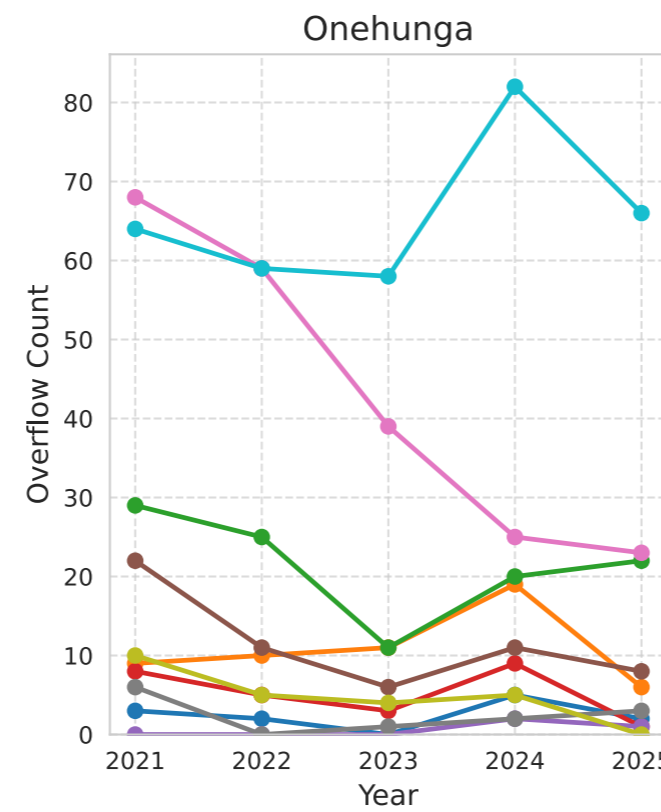
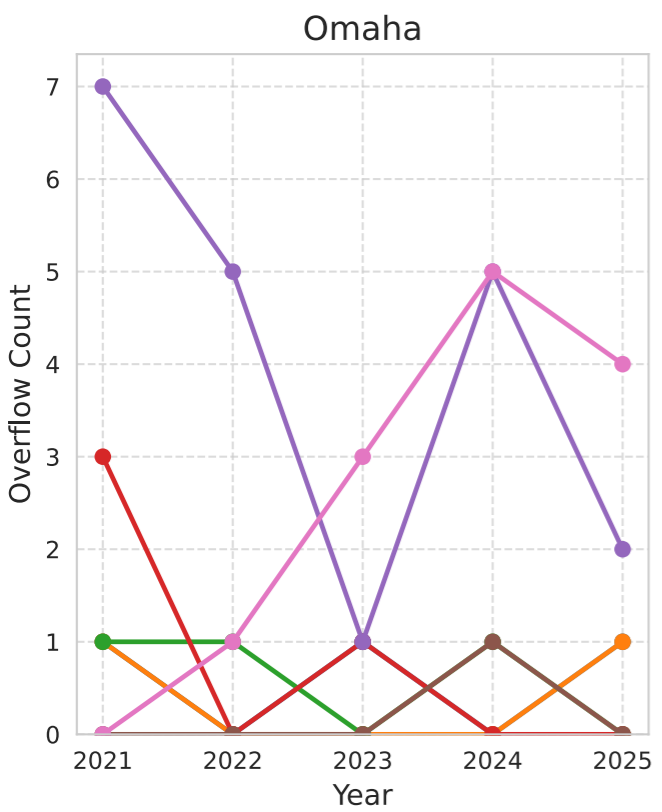
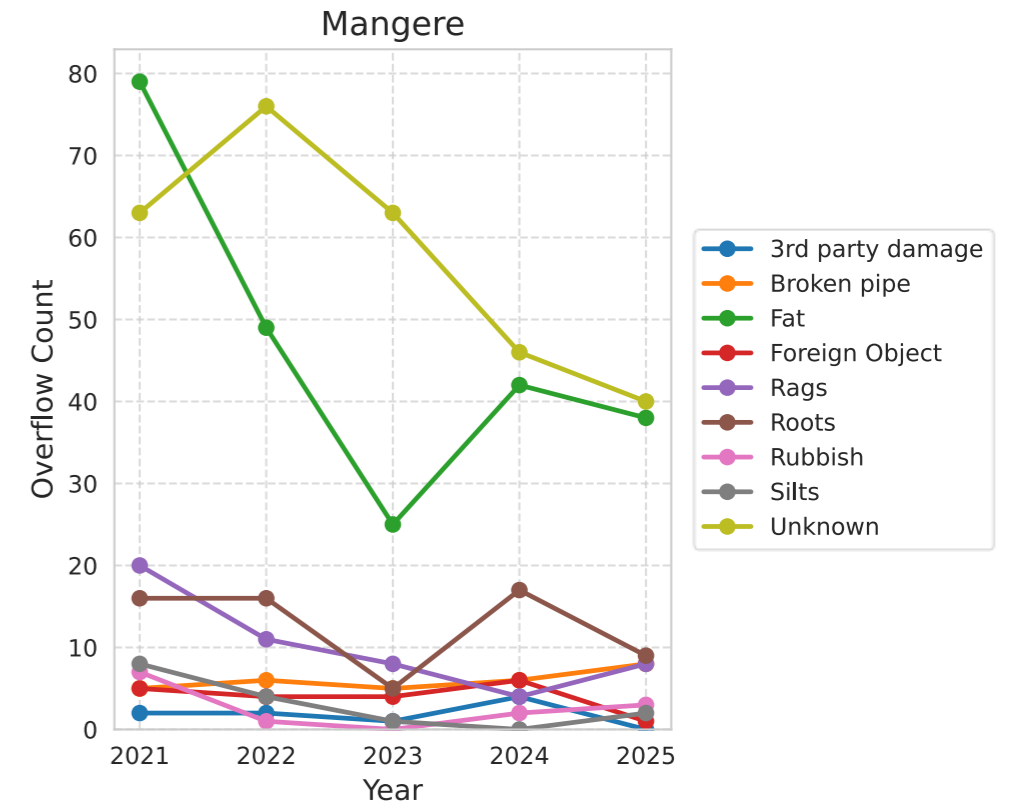
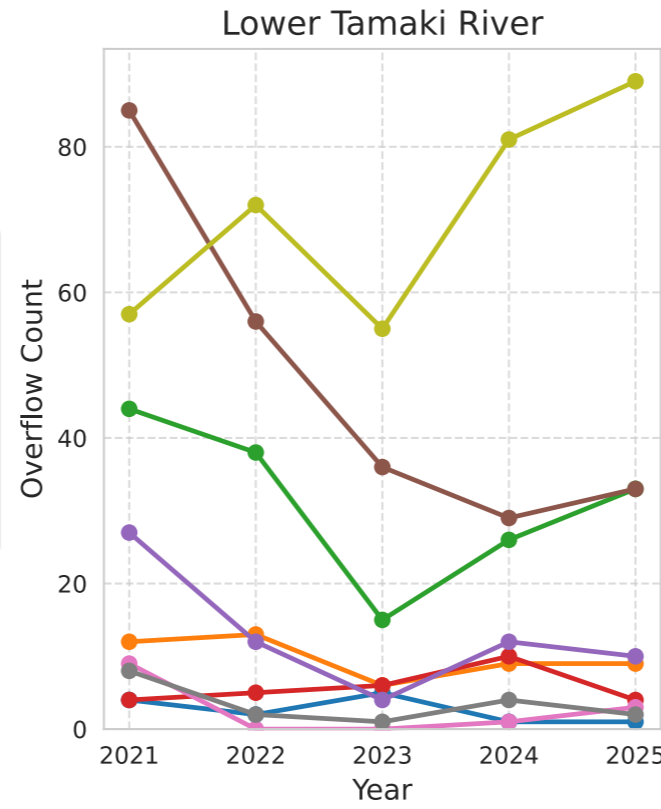
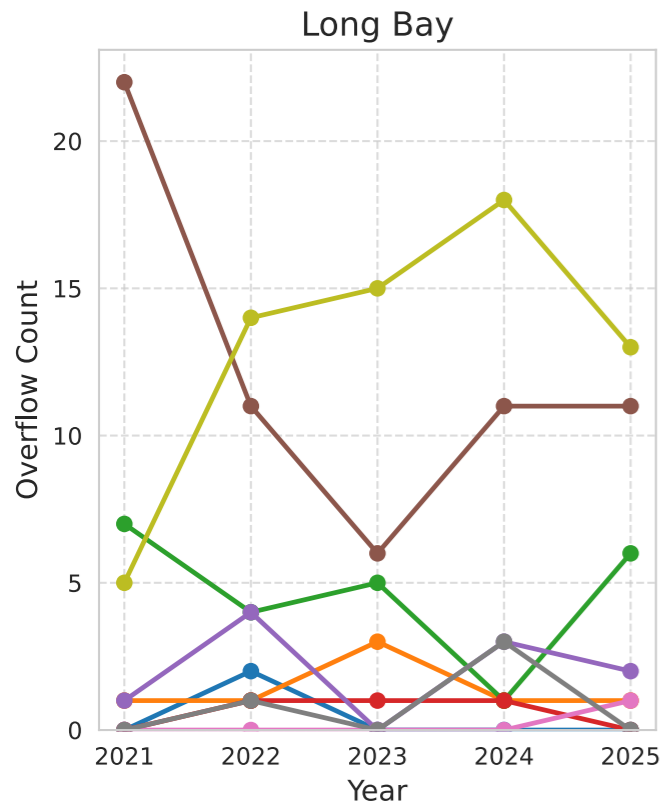
Facility Code	Pump Station Name	Catchment	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-25	2019-2024	2020-2025	Trend
DPWNO	Waimarino Road WWPS	Pahurehure Inlet	0	0	1	0	0	0	0	0.2	0.2 No Change
DPWYM	Weymouth WWPS (PS47)	Pahurehure Inlet	0	0	0	4	0	0	0	0.8	0.8 No Change
DPONR	Oneroa Waiheke WWPS	Oneroa	0	0	0	0	0	0	0	0	0 No Change
DPHAW	Hawke Crescent WWPS	Beachlands Maraetai	1	0	0	3	0	0	0	0.8	0.6 Decreasing
DPKKA	Karaka Road WWPS	Beachlands Maraetai	0	0	1	0	0	0	0	0.2	0.2 No Change
DPMTI	Maraetai Domain WWPS	Beachlands Maraetai	5	0	2	1	1	0	0	1.8	0.8 Decreasing
DPNAV	New Avenues WWPS	Beachlands Maraetai	0	0	1	4	2	0	0	1.4	1.4 No Change
DPOMA	Omana Esplanade WWPS	Beachlands Maraetai	2	0	1	0	0	0	0	0.6	0.2 Decreasing
DPPHM	Pine Harbour Marina WWPS	Beachlands Maraetai	1	0	0	0	0	0	0	0.2	0 Decreasing
DPSKB	Sunkist Bay WWPS	Beachlands Maraetai	0	0	0	0	0	0	0	0	0 No Change
DPTOO	Toomer Place WWPS	Beachlands Maraetai	2	0	2	2	1	0	0	1.4	1 Decreasing
DPTVW	Third view WWPS	Beachlands Maraetai	2	0	2	4	2	1	0	2	1.8 Decreasing
DPCHA	Channel View Road	Clarks Beach	0	0	0	1	0	0	0	0.2	0.2 No Change
DPHOS	Hoskings Clarks Beach WWPS	Clarks Beach	0	0	0	1	0	0	0	0.2	0.2 No Change
DPFGH	Fernleigh Avenue WWPS	Waiuku	0	0	0	2	0	0	0	0.4	0.4 No Change
DPKAO	Kitchener Road WWPS	Waiuku	0	0	0	5	0	0	0	1	1 No Change
DPCHR	Cape Hill Road WWPS	Pukekohe	0	0	0	5	0	1	0	1	1.2 Increasing
DPFRA	Franklin Road WWPS	Pukekohe	0	0	0	2	0	0	0	0.4	0.4 No Change
DPPAM	Pamela Christine WWPS	Pukekohe	0	0	0	0	0	0	0	0	0 No Change
DPPKE	Pukekohe WWPS (PS92)	Pukekohe	0	0	0	1	0	0	0	0.2	0.2 No Change
DPOLV	PS 5 Oliver Road WWPS (PS5)	Western Isthmus	3	3	3	3	5	4	0	3.4	3.6 Increasing
DPJOA	Joan Street WWPS	Western Isthmus	0	1	0	0	0	0	0	0.2	0.2 No Change
DPWIN	St George WWPS (PS25)	Western Isthmus	7	5	1	10	2	0	0	5	3.6 Decreasing
DPWTB	Waterbank Crescent WWPS	Western Isthmus	0	0	0	0	0	0	0	0	0 No Change



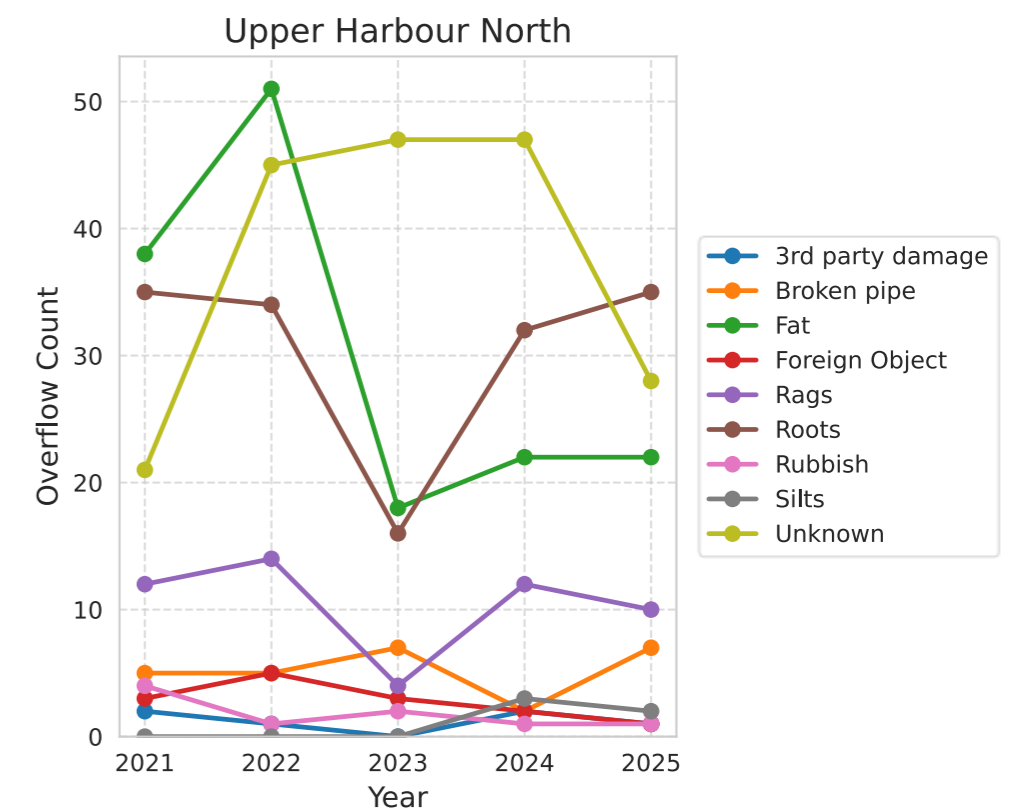
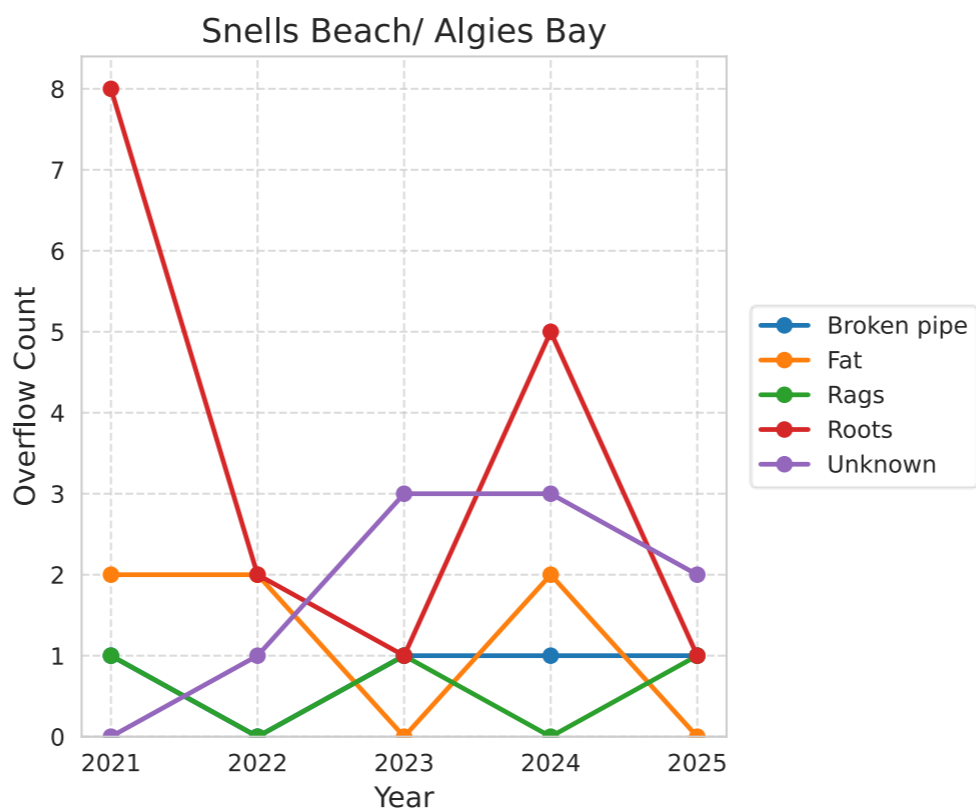
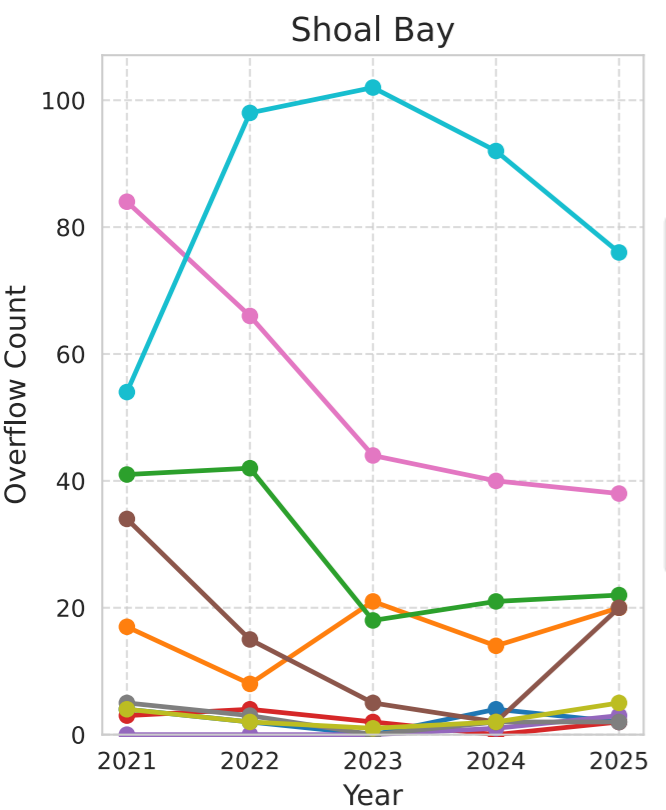
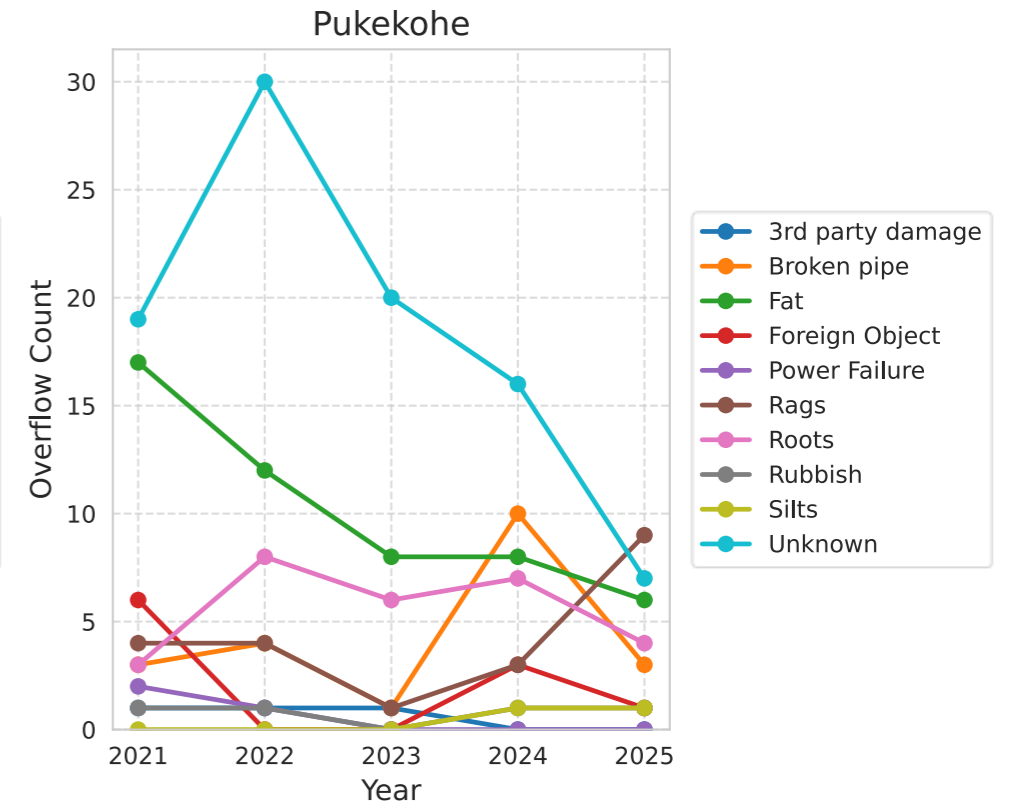
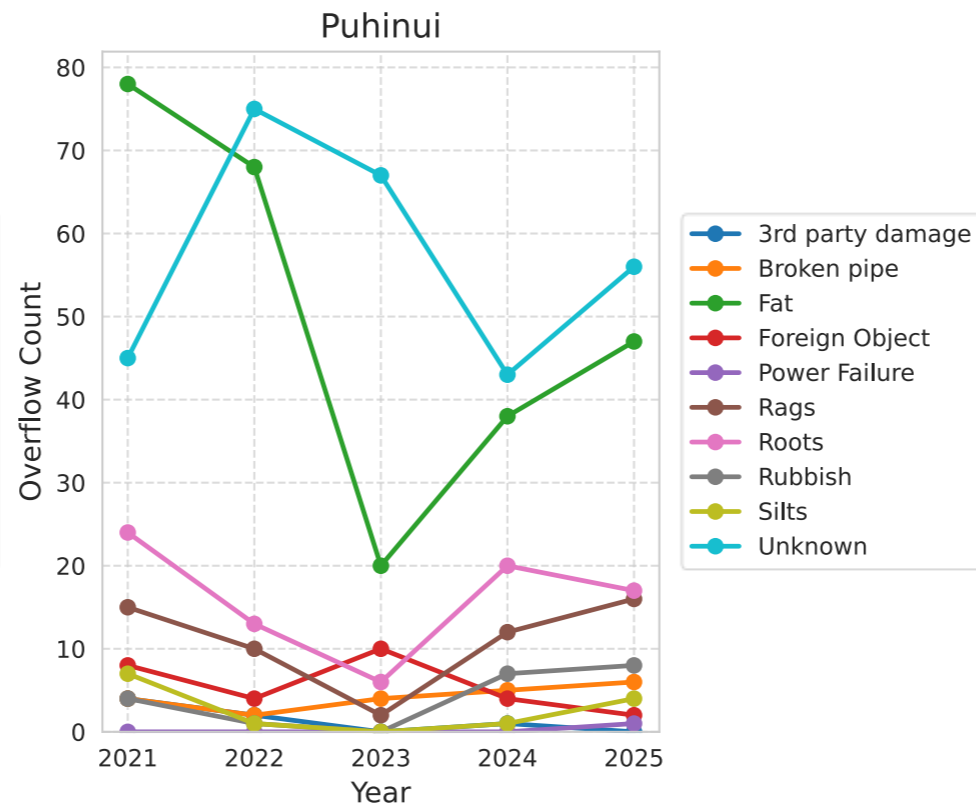
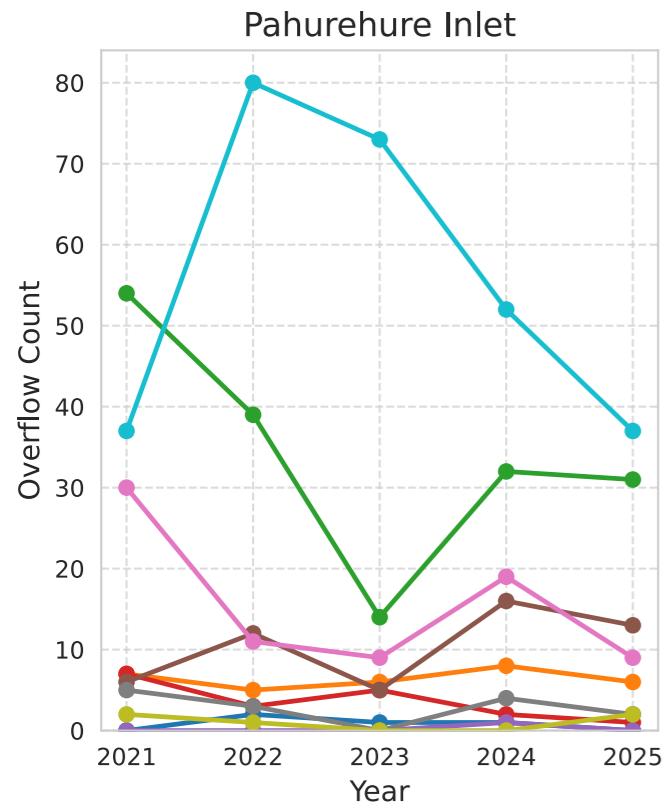
Appendix D-5 Type-3 DWO trends



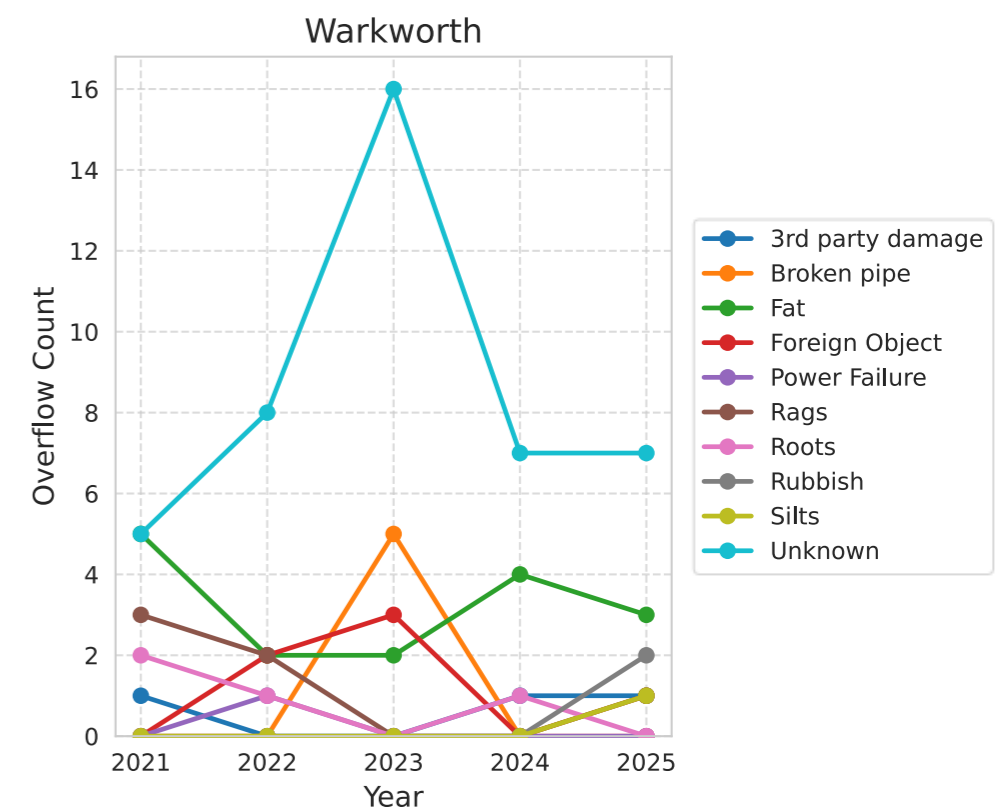
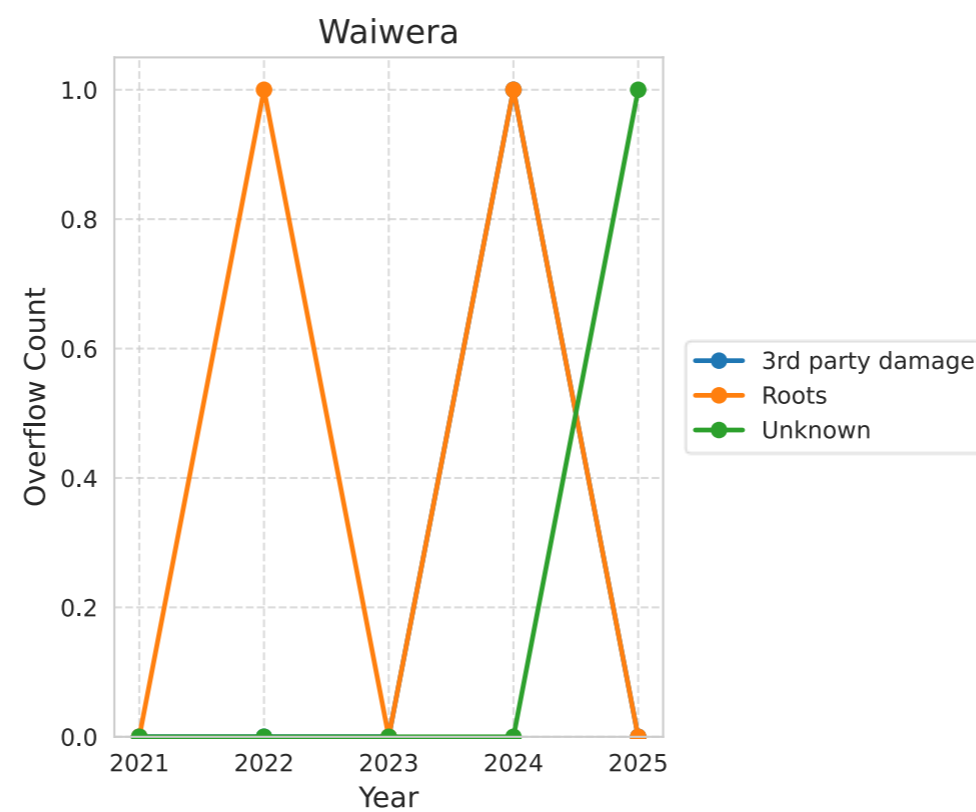
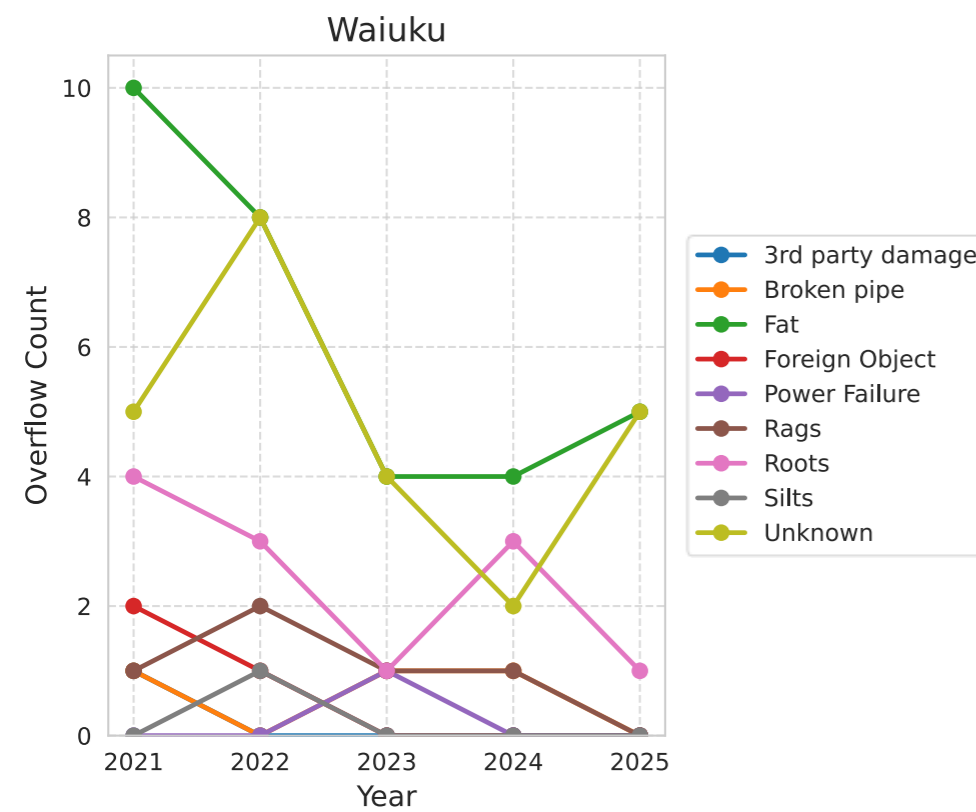
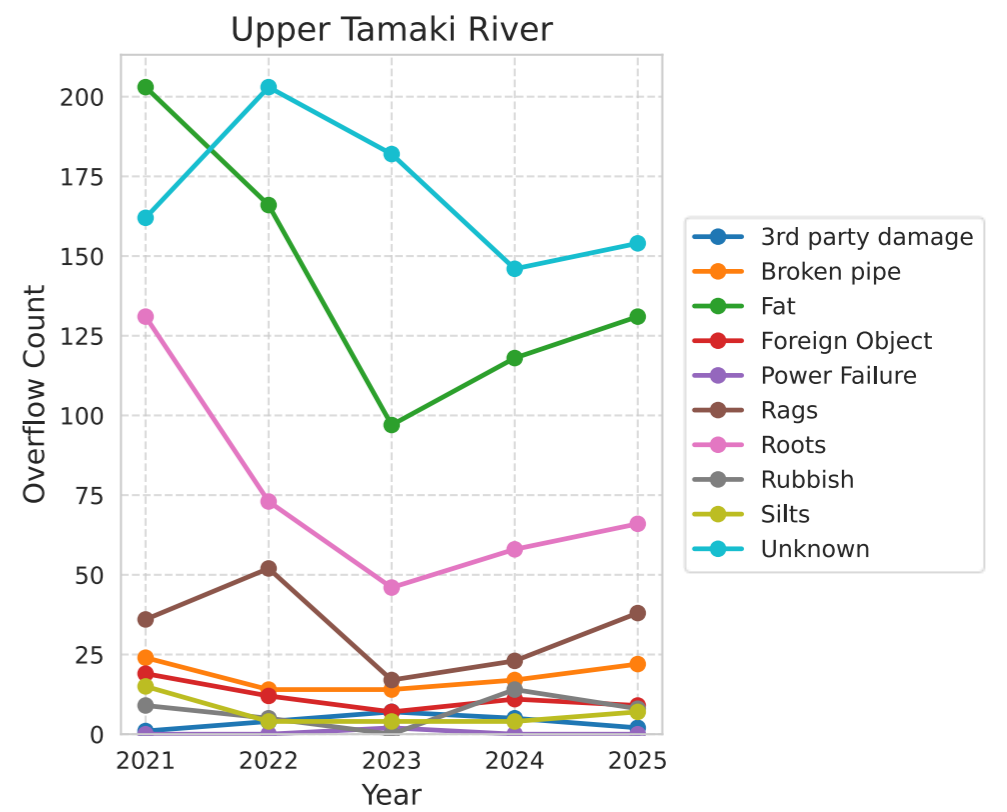
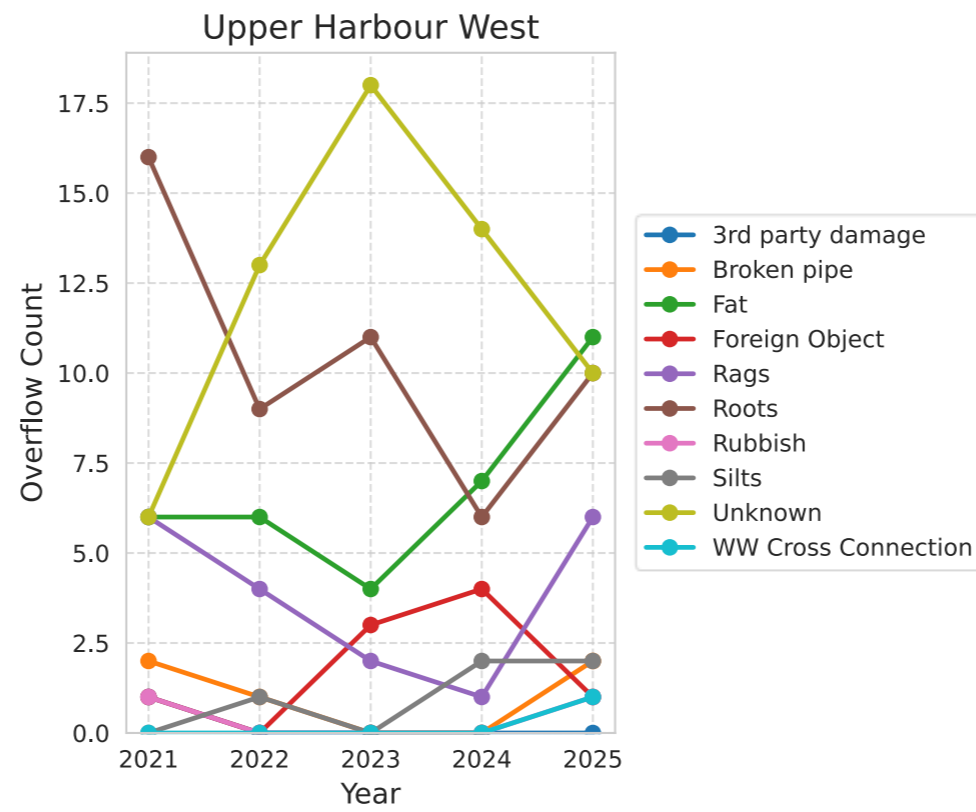
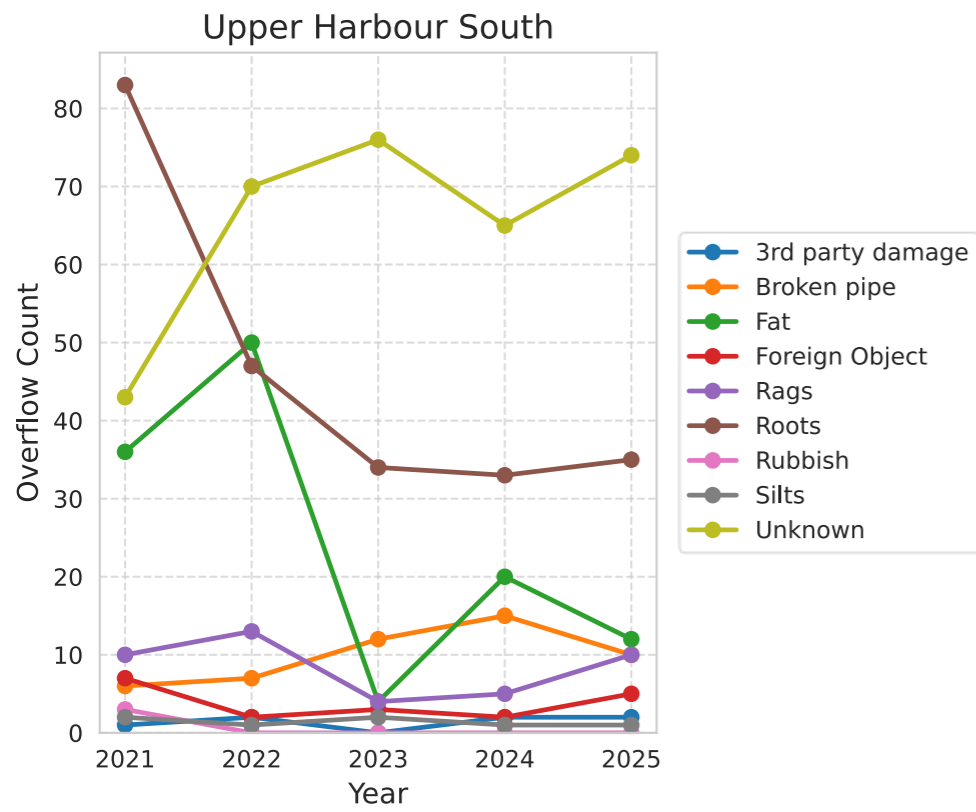
Appendix D-5 Type-3 DWO trends



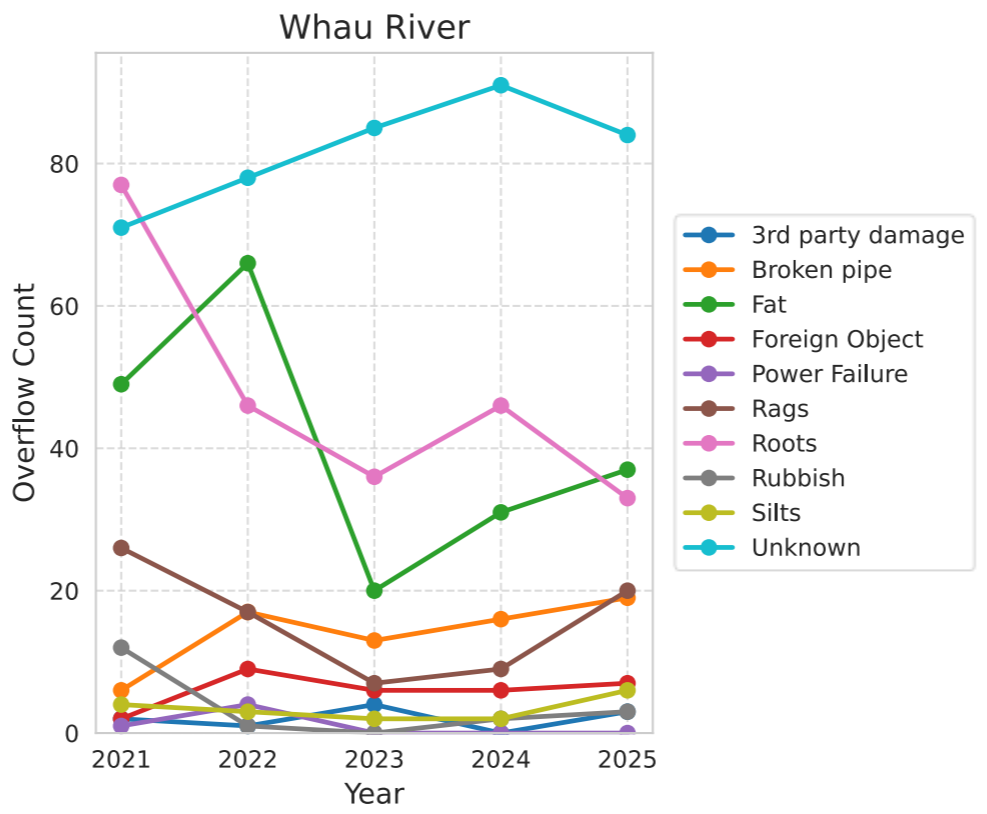
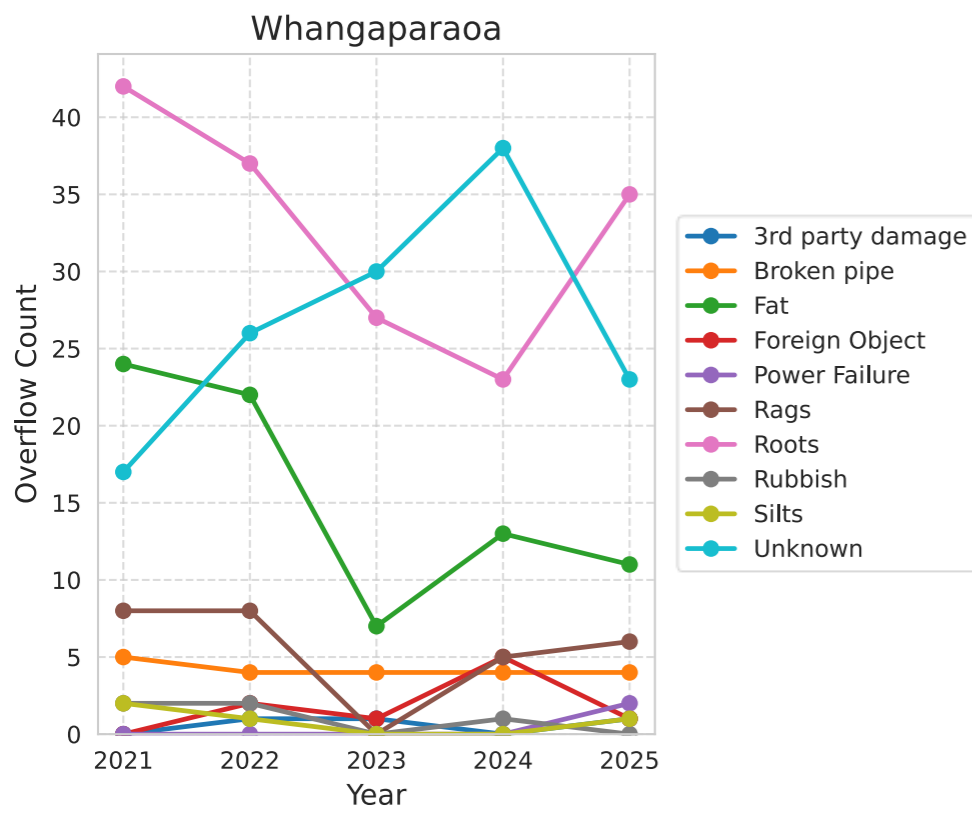
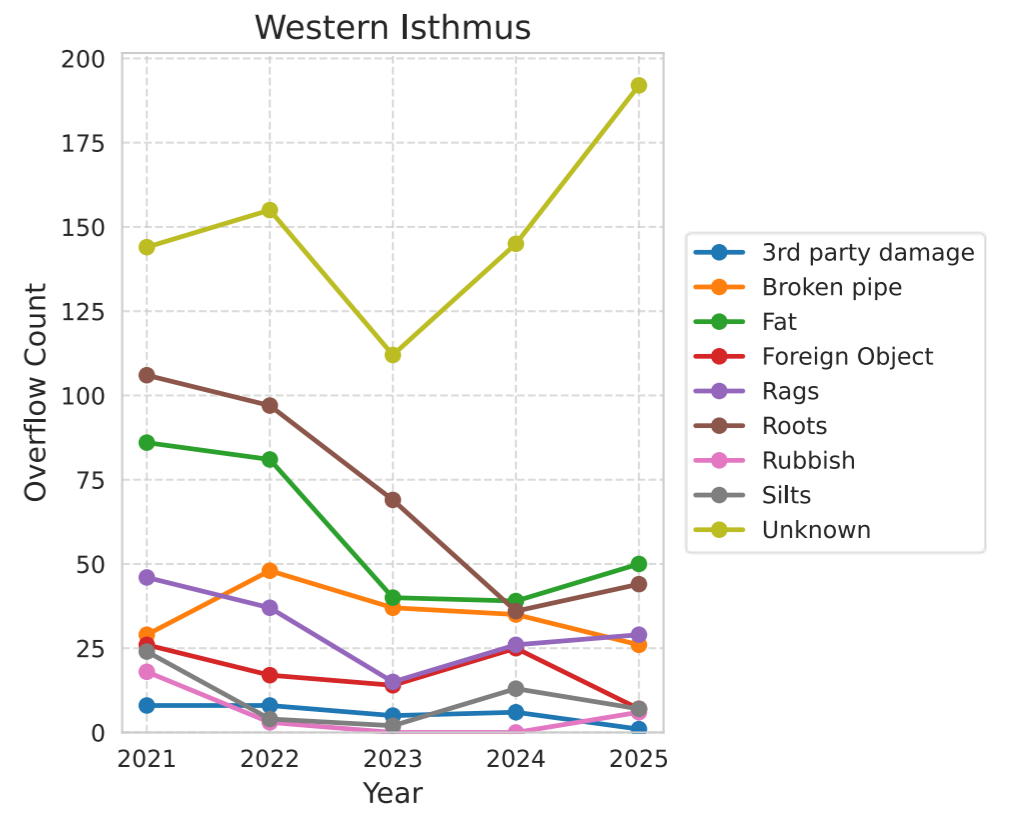
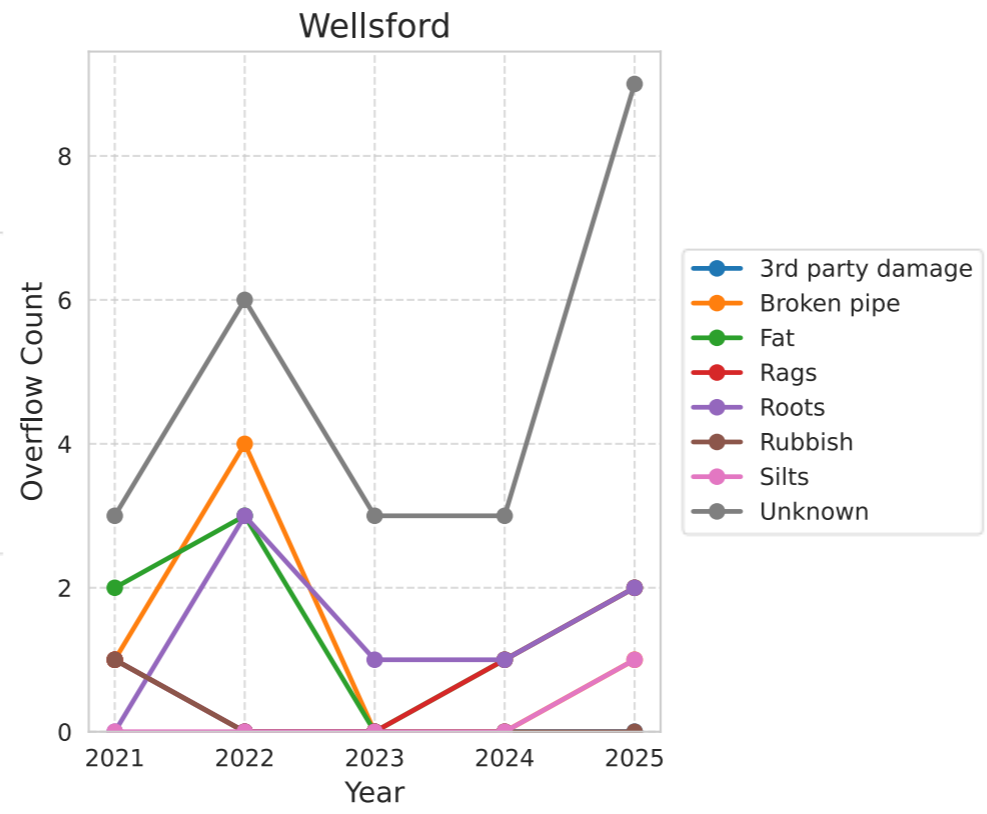
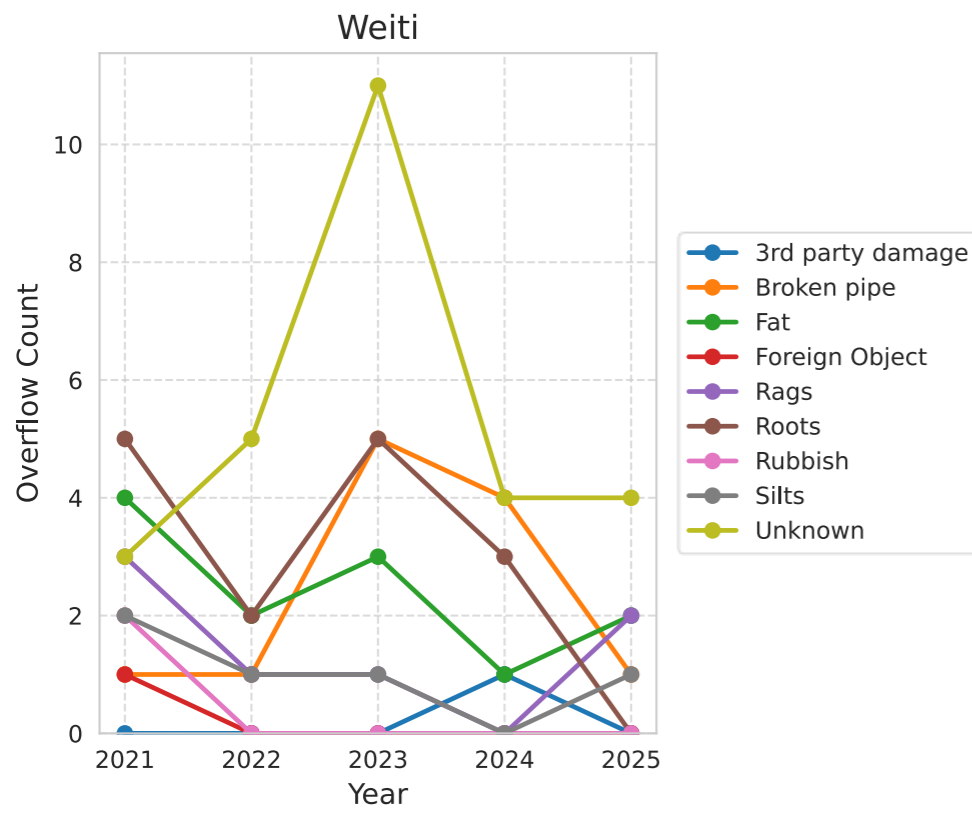
Appendix D-5 Type-3 DWO trends



Appendix D-5 Type-3 DWO trends

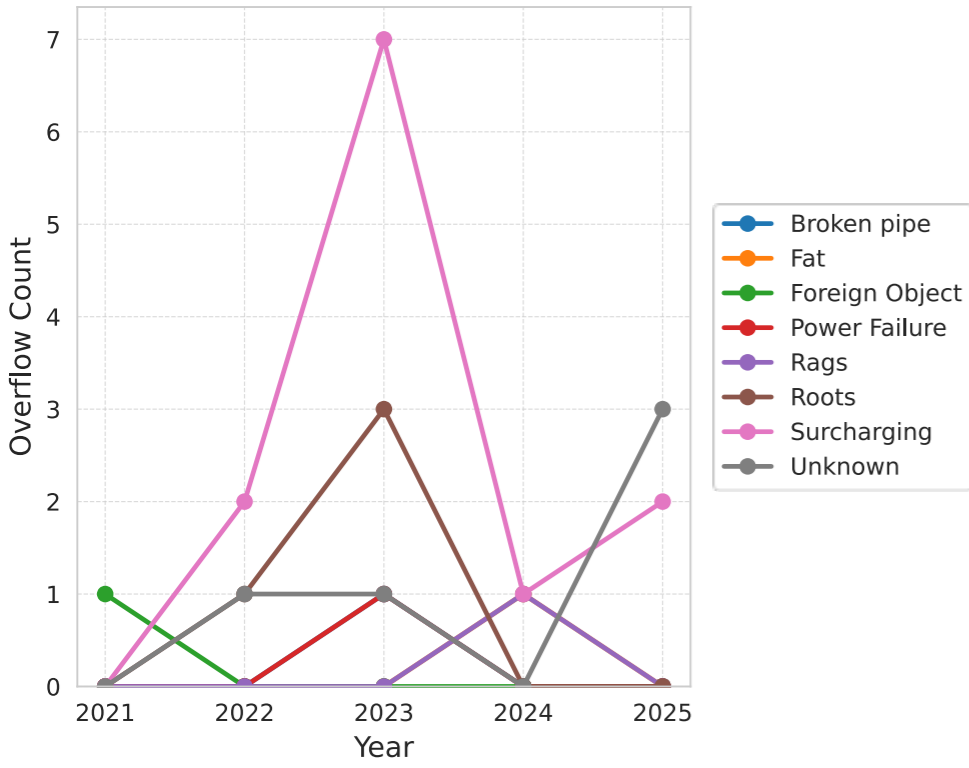


Appendix D-5 Type-3 DWO trends

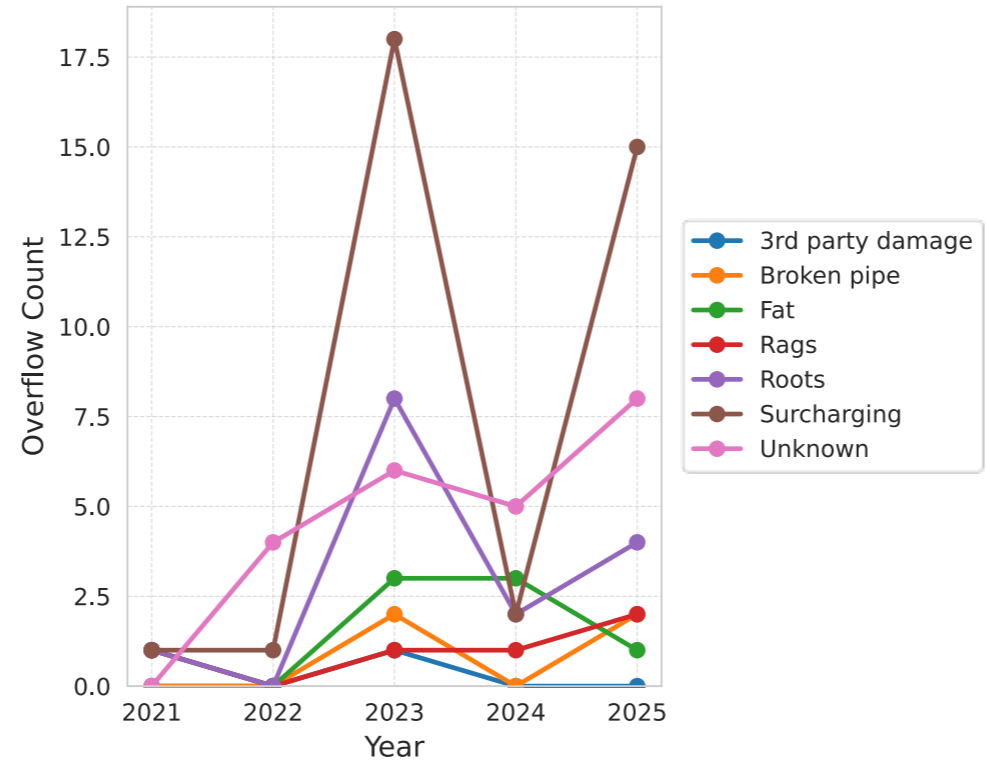


Appendix D-5 Type-3 DWO trends

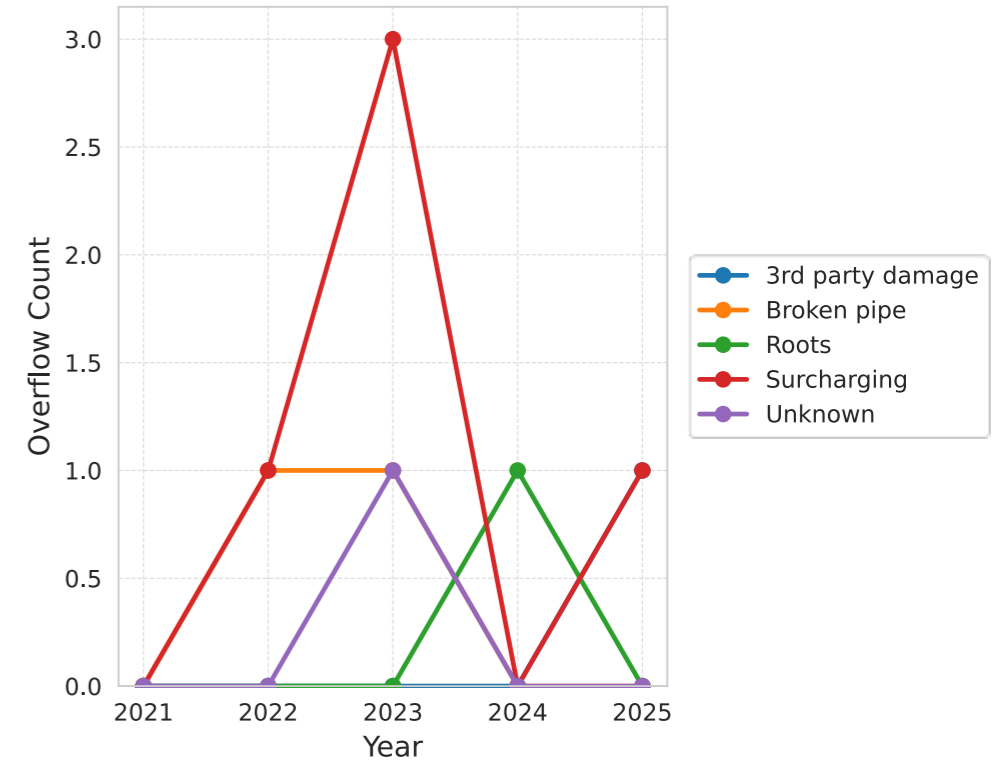
Beachlands Maraetai



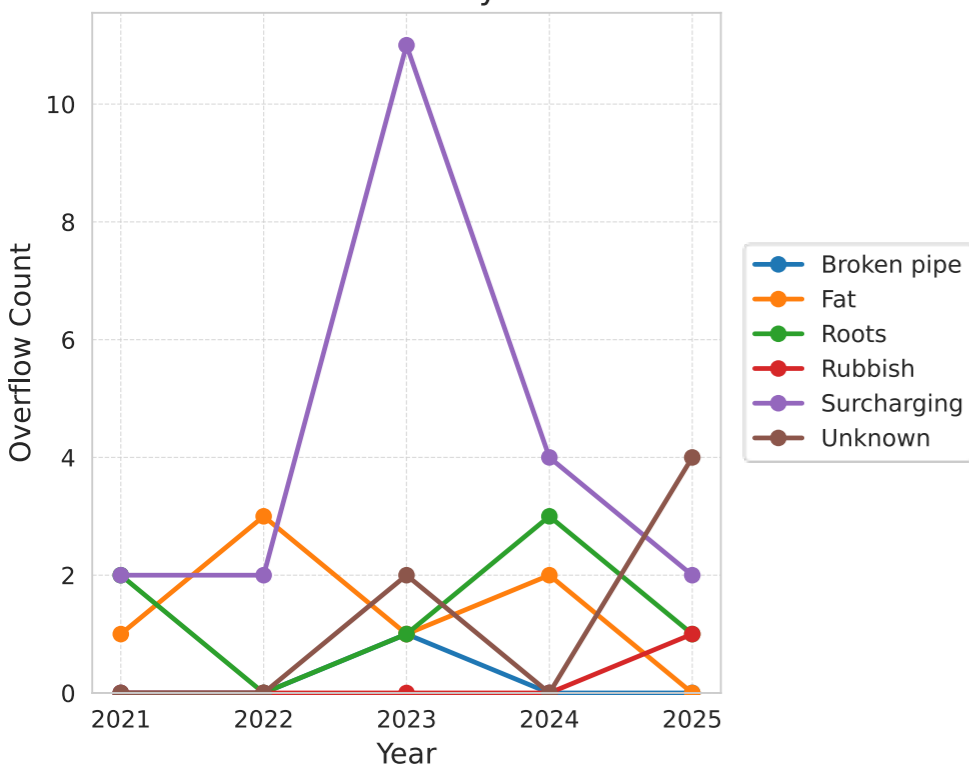
Central Auckland



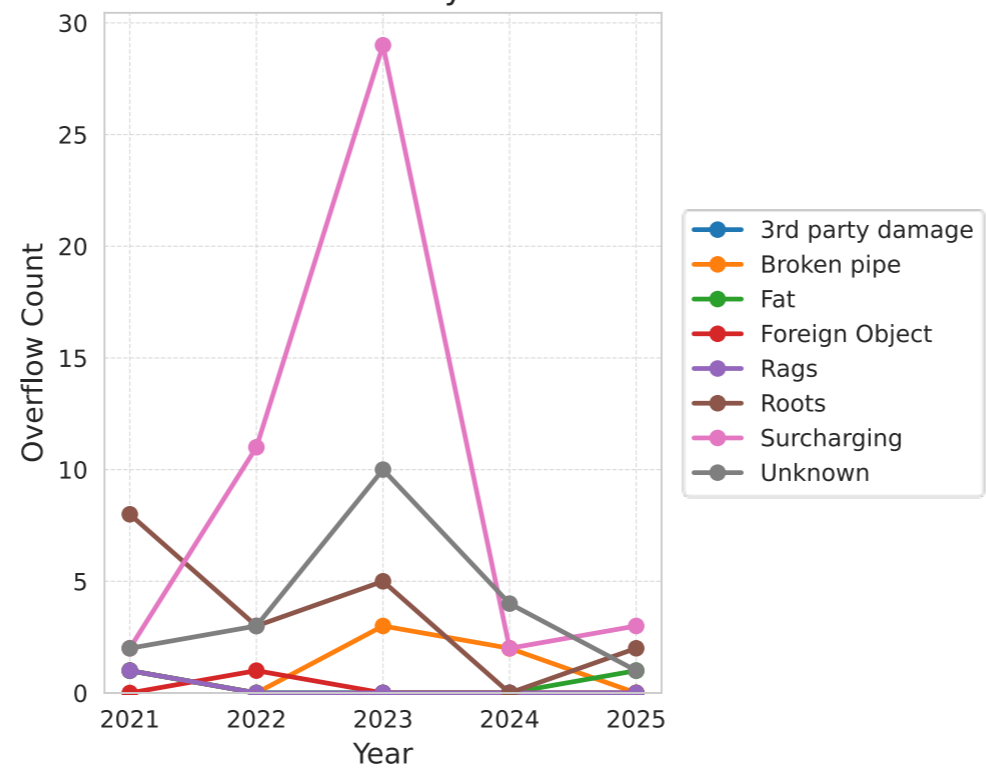
Clarks Beach



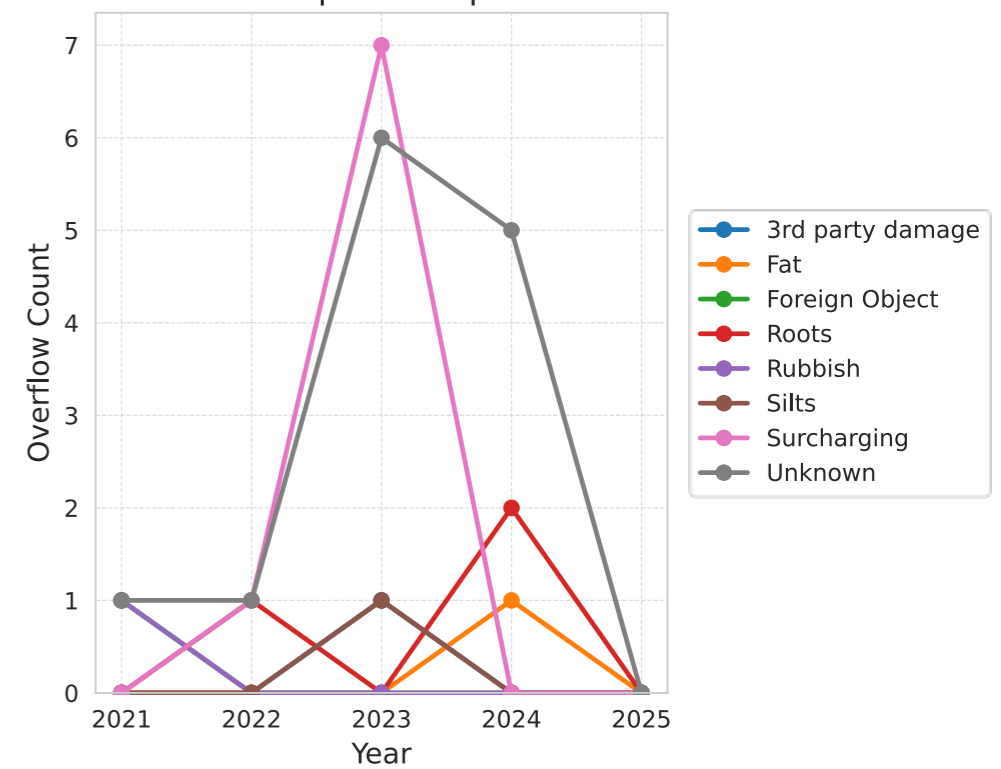
Cockle Bay

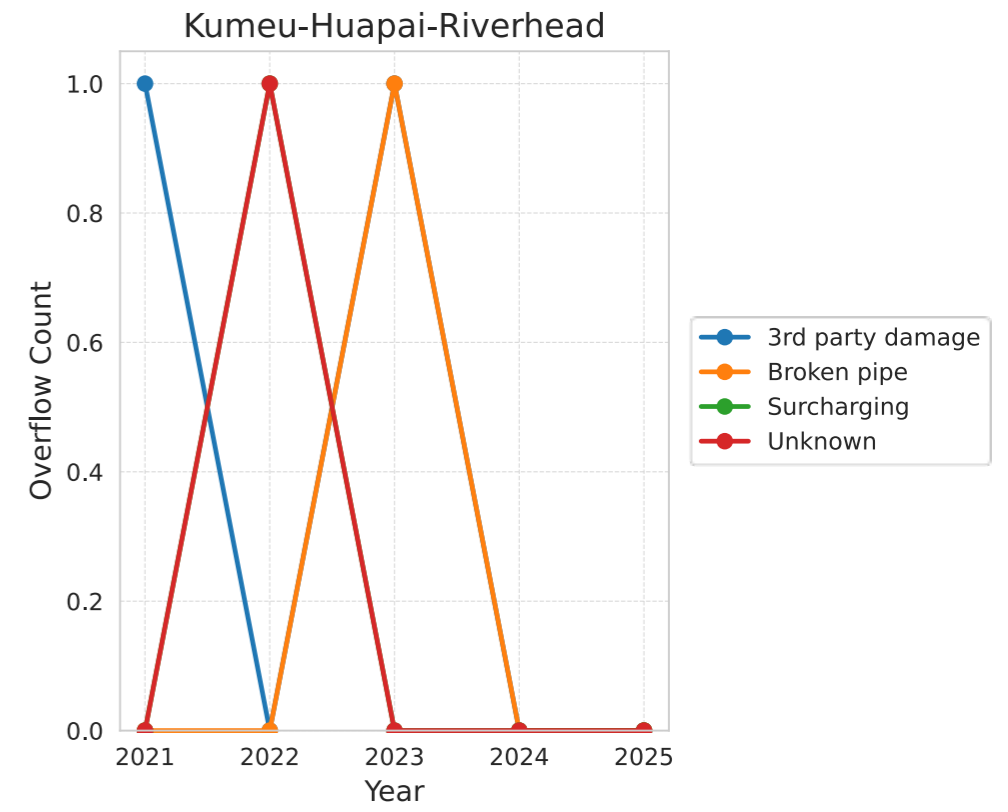
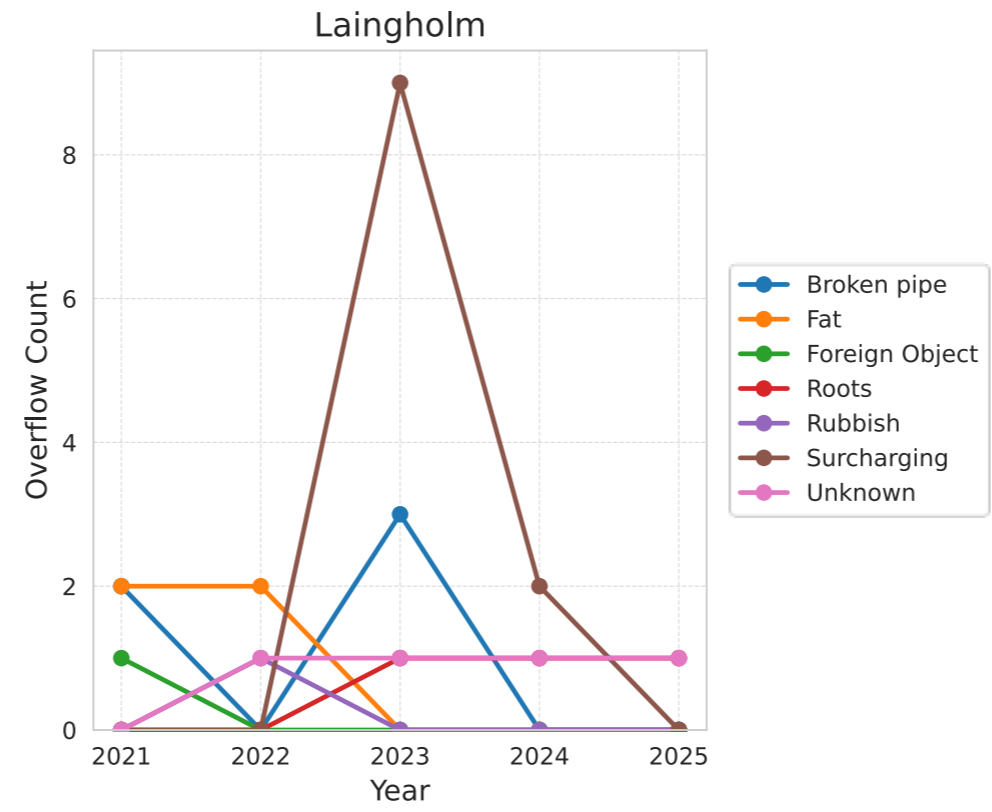
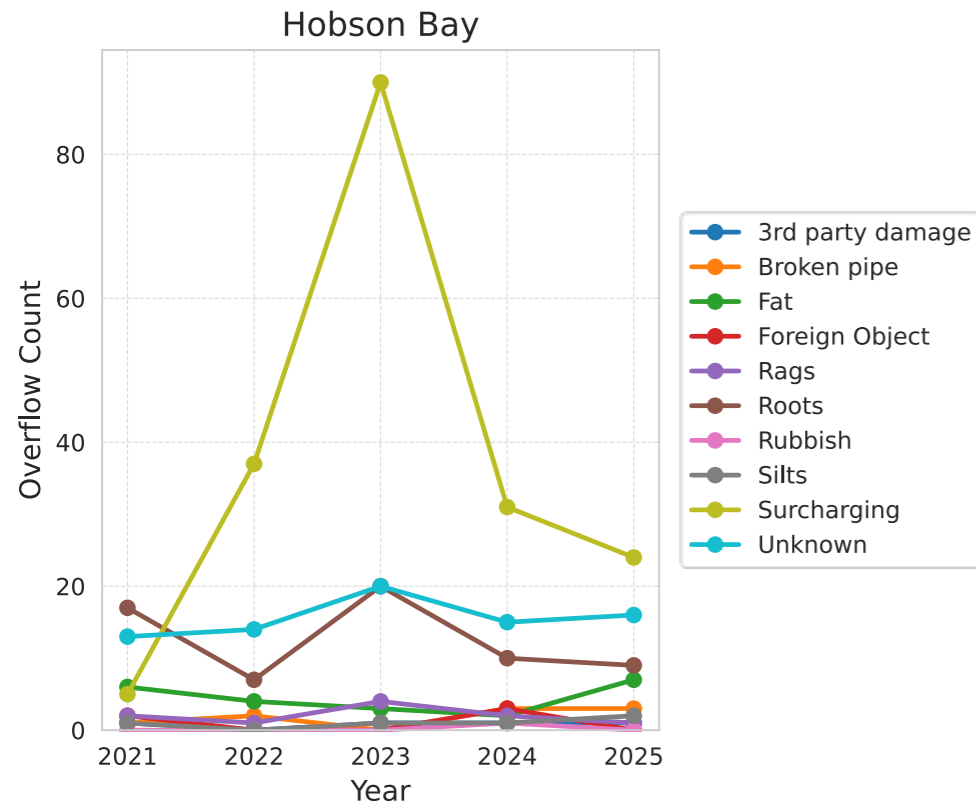
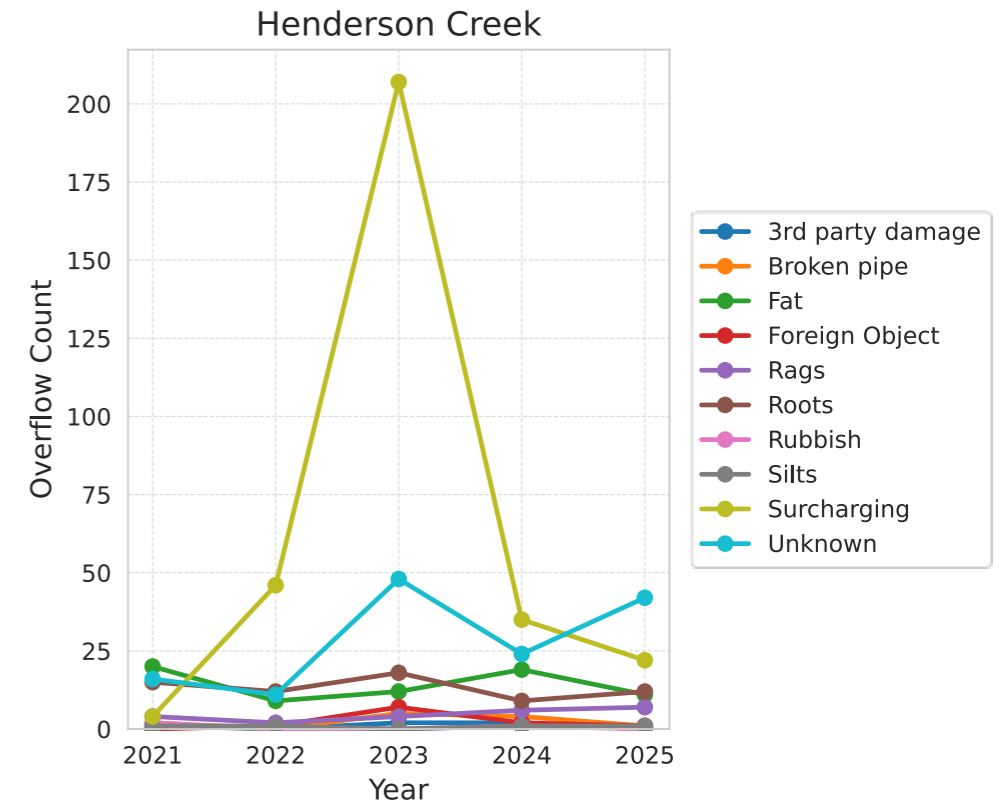
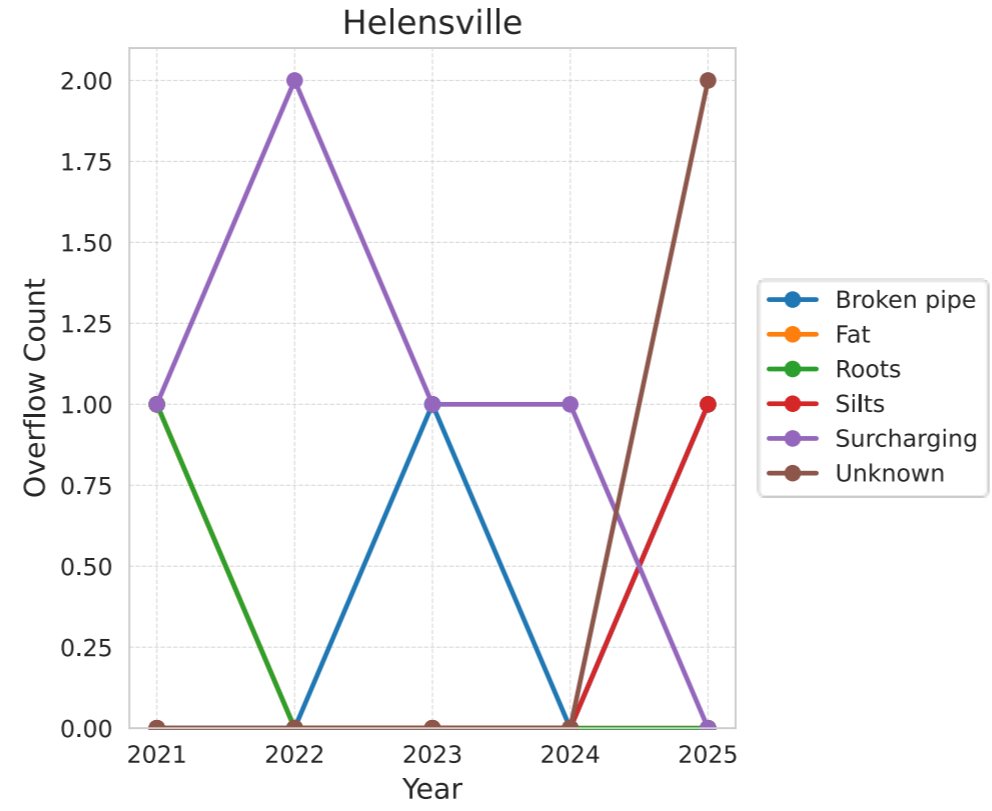
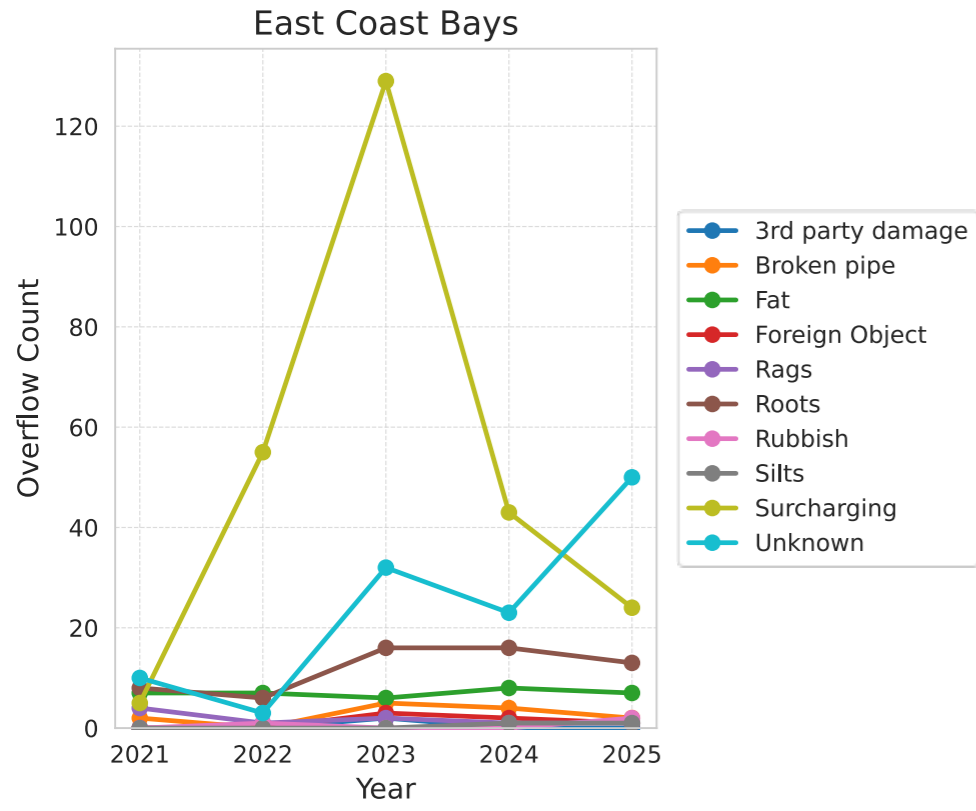


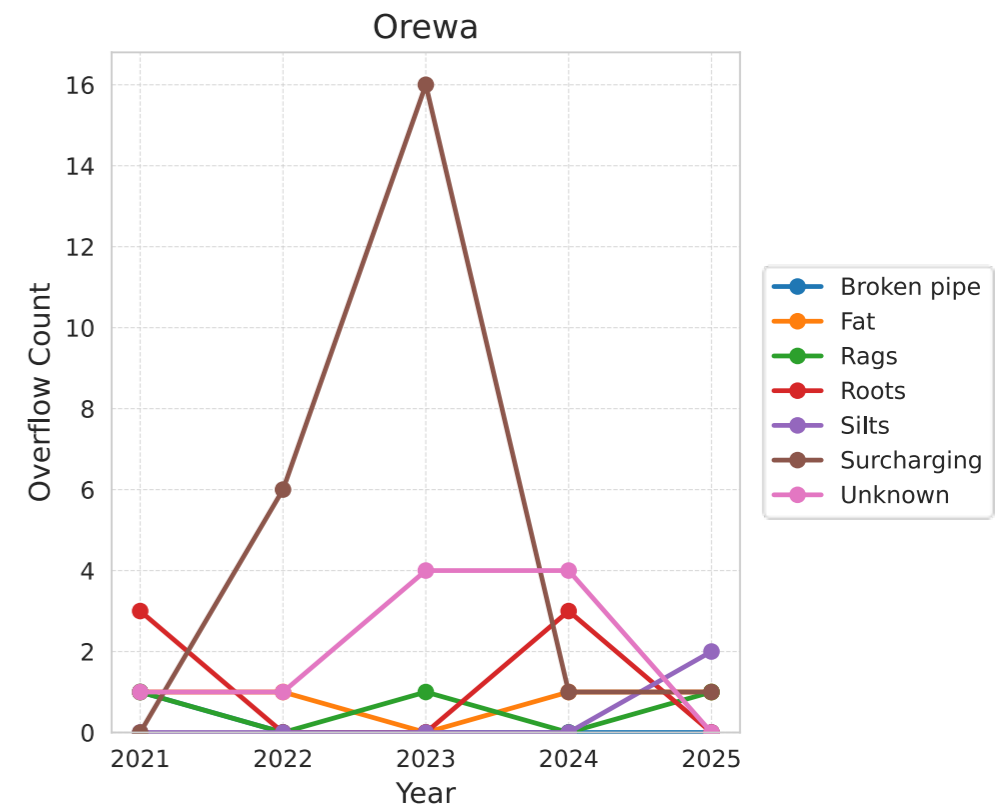
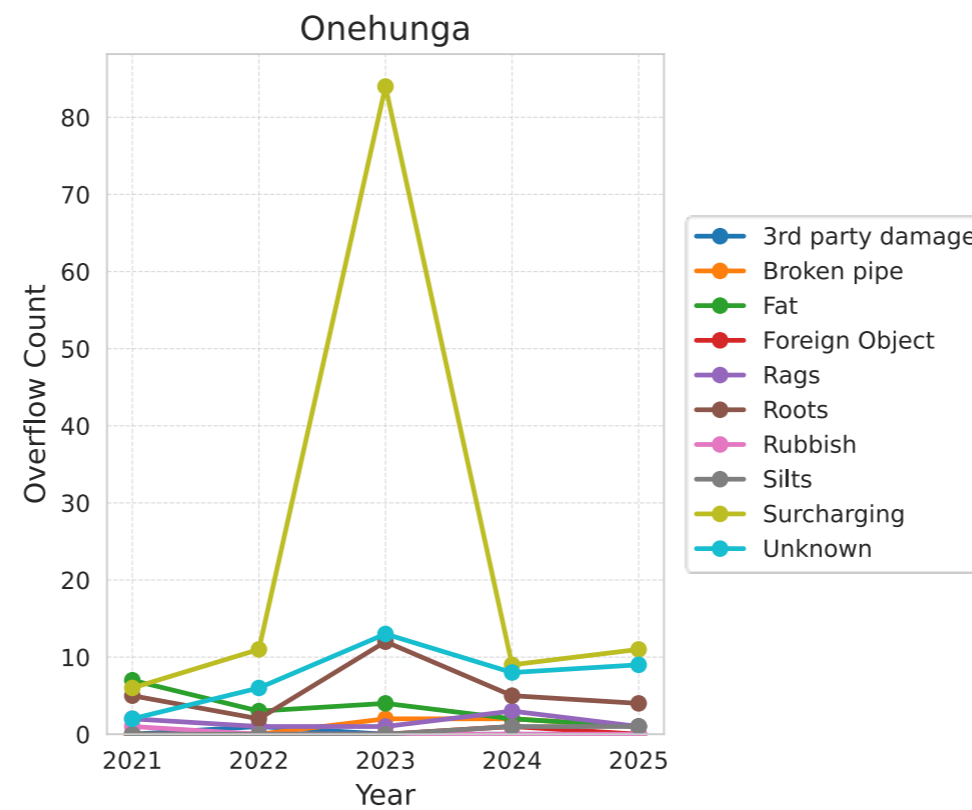
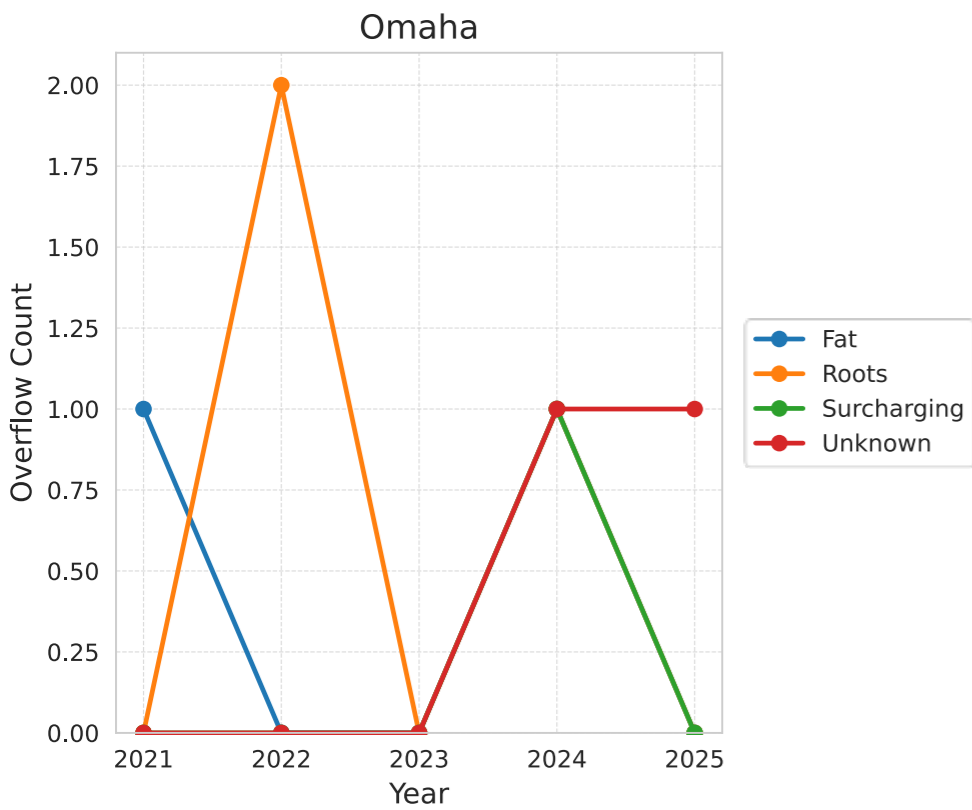
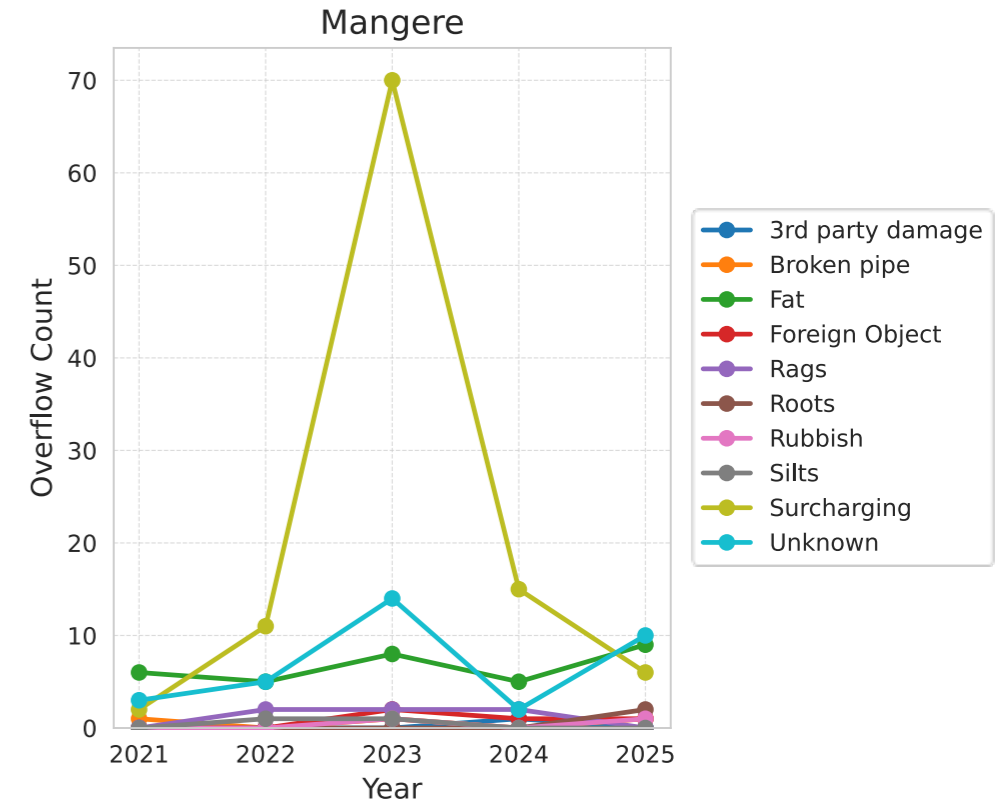
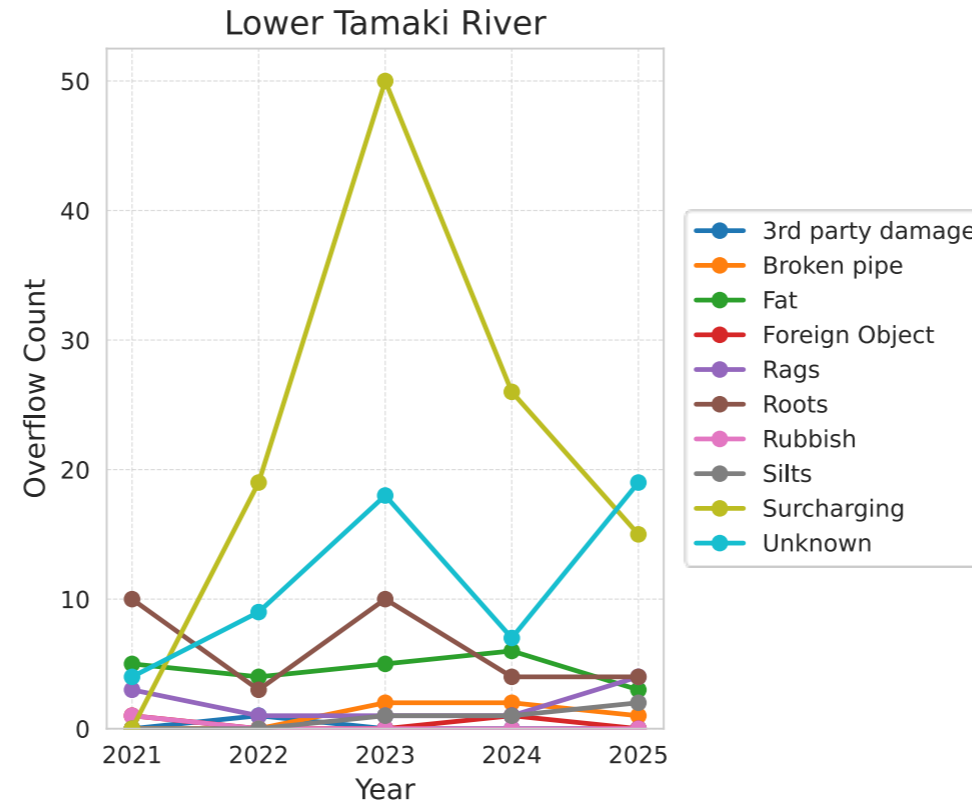
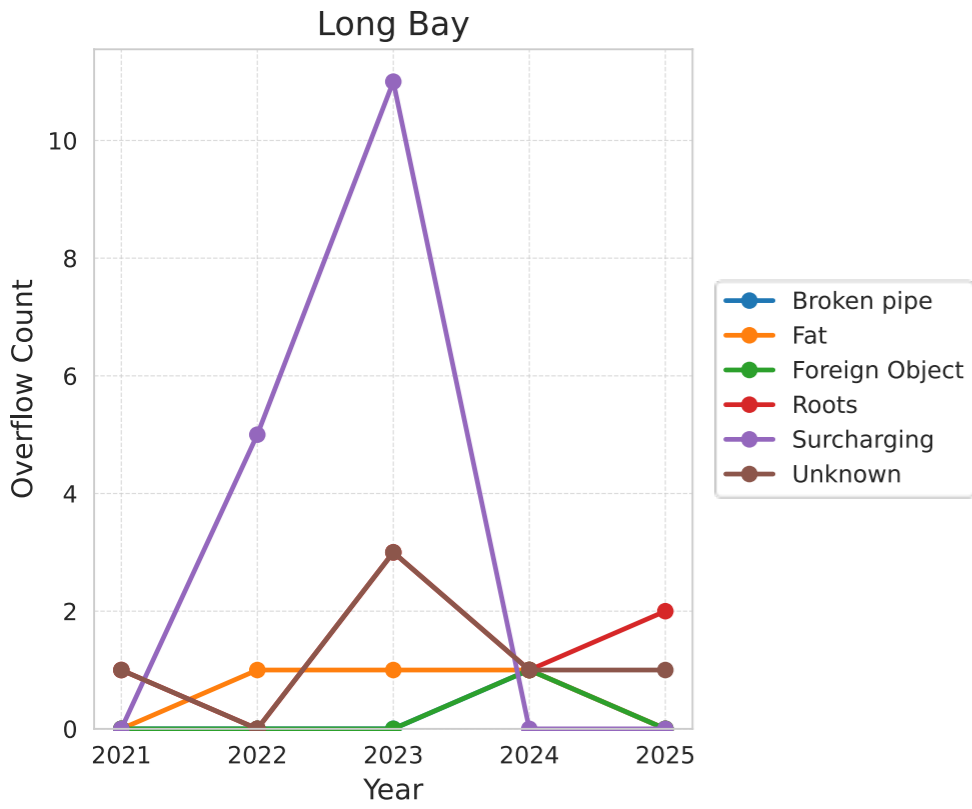
Cox's Bay



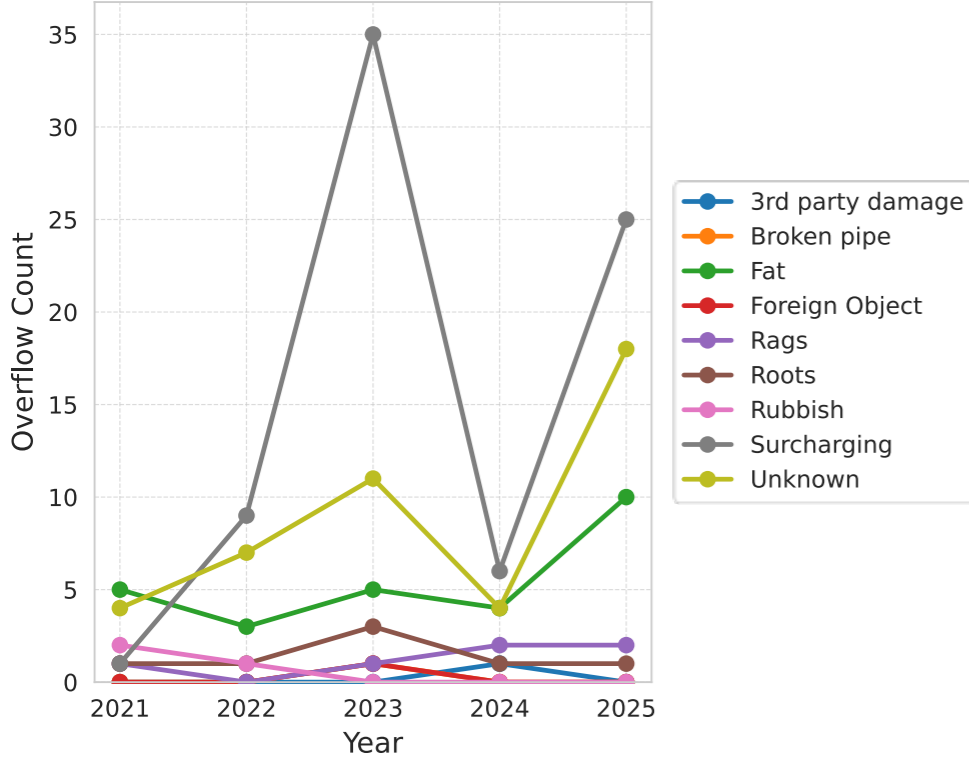
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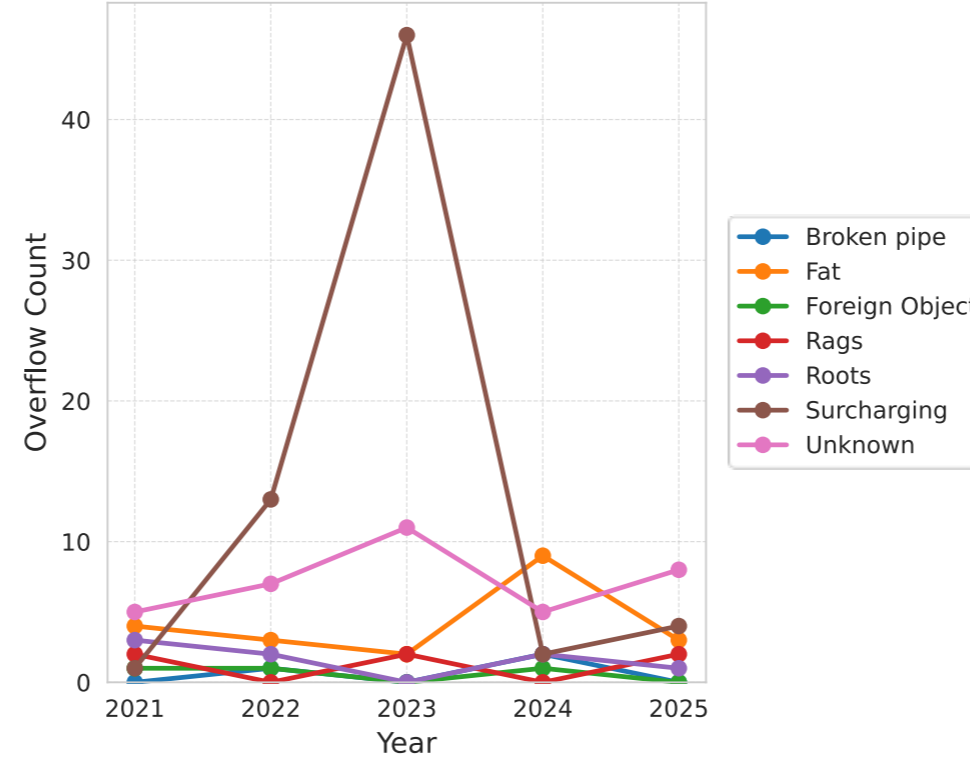




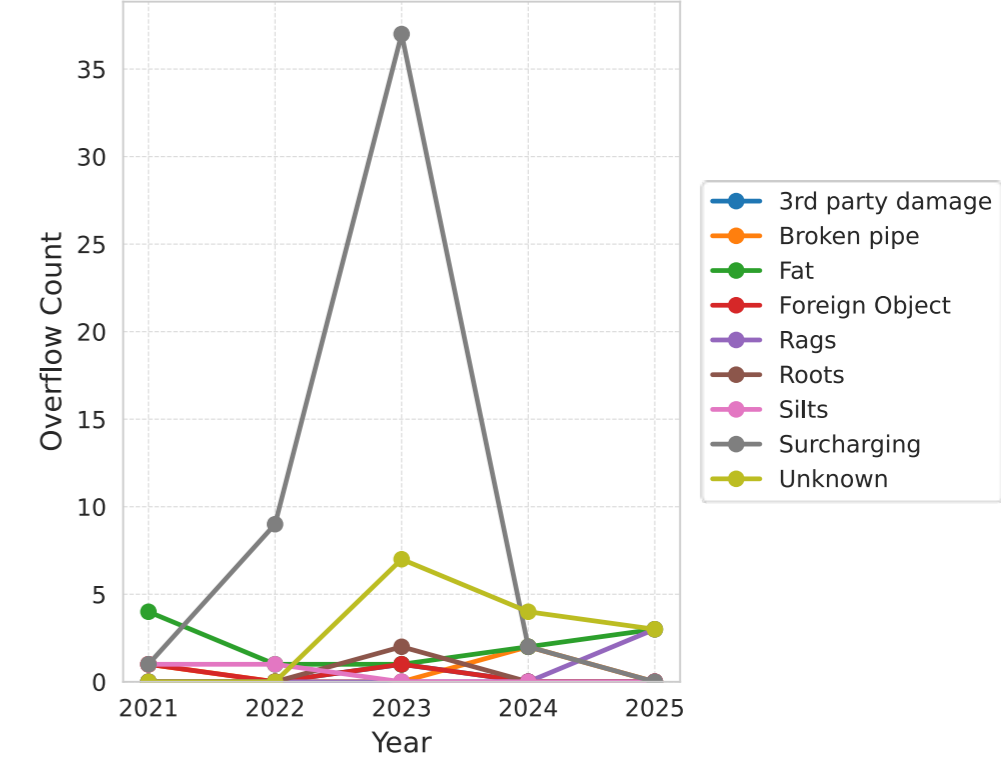
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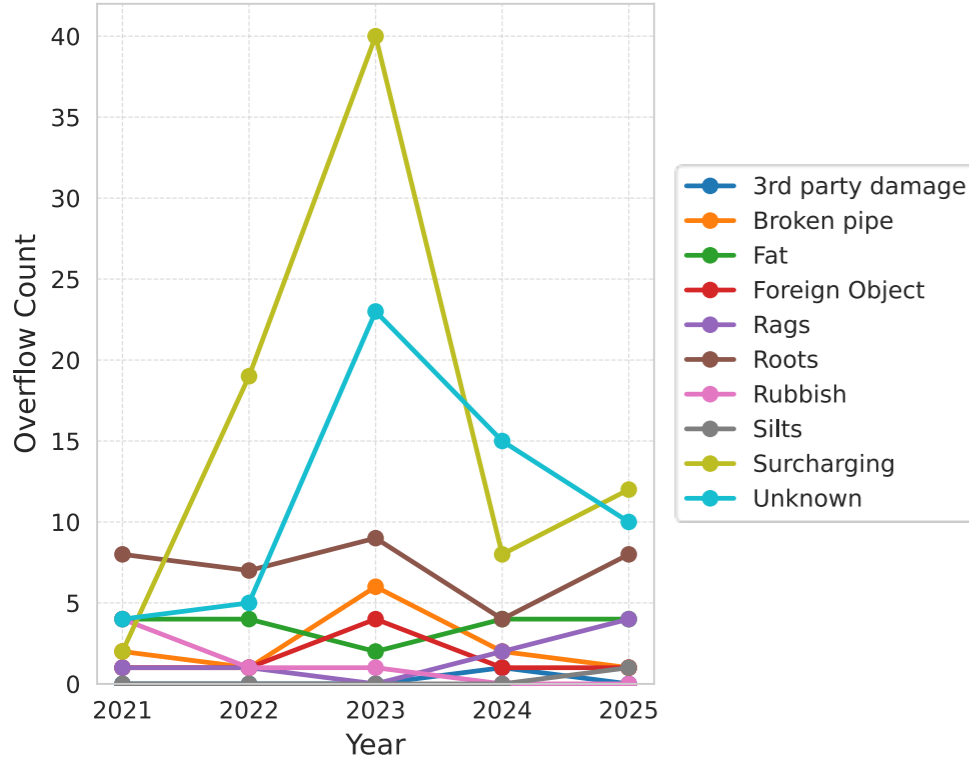
Puhinui



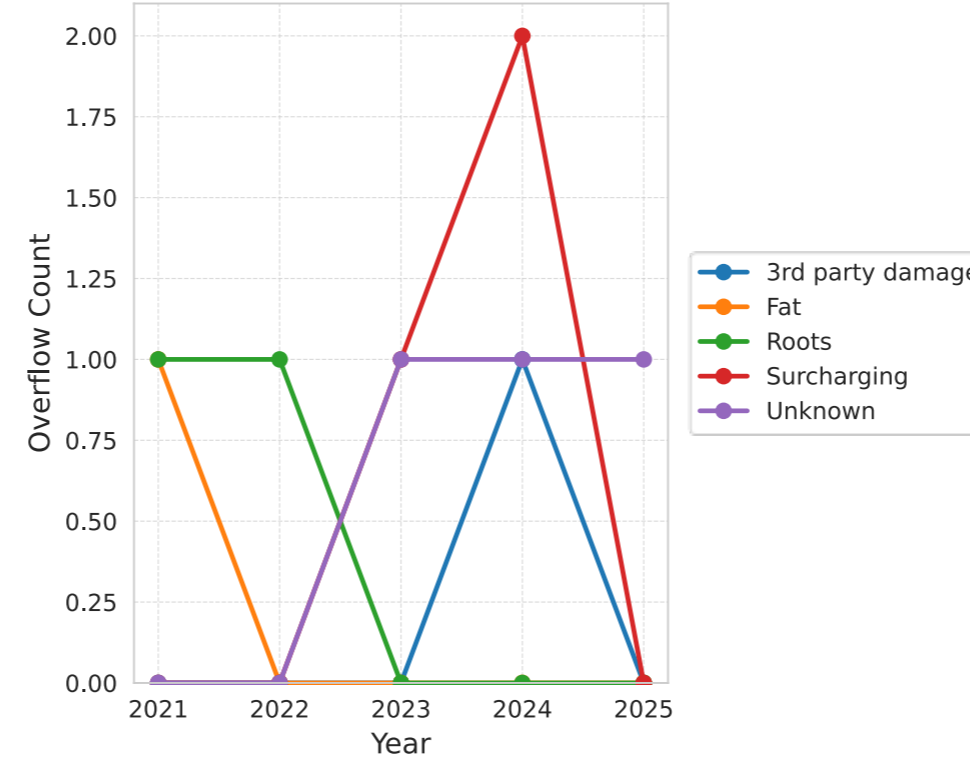
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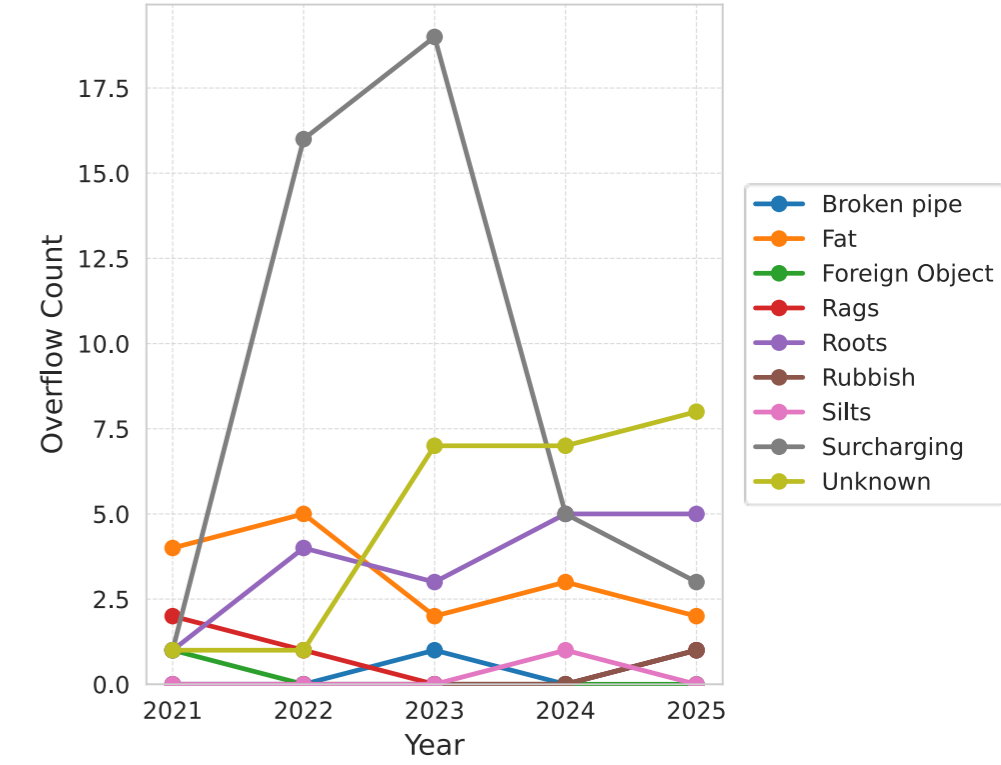
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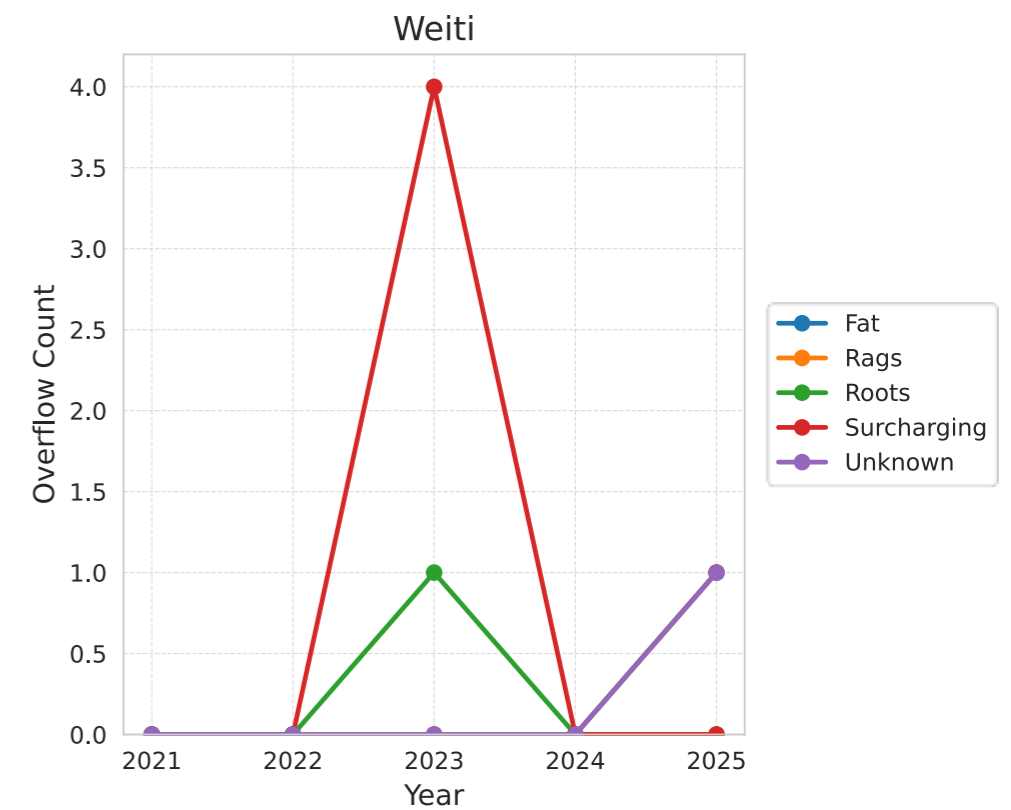
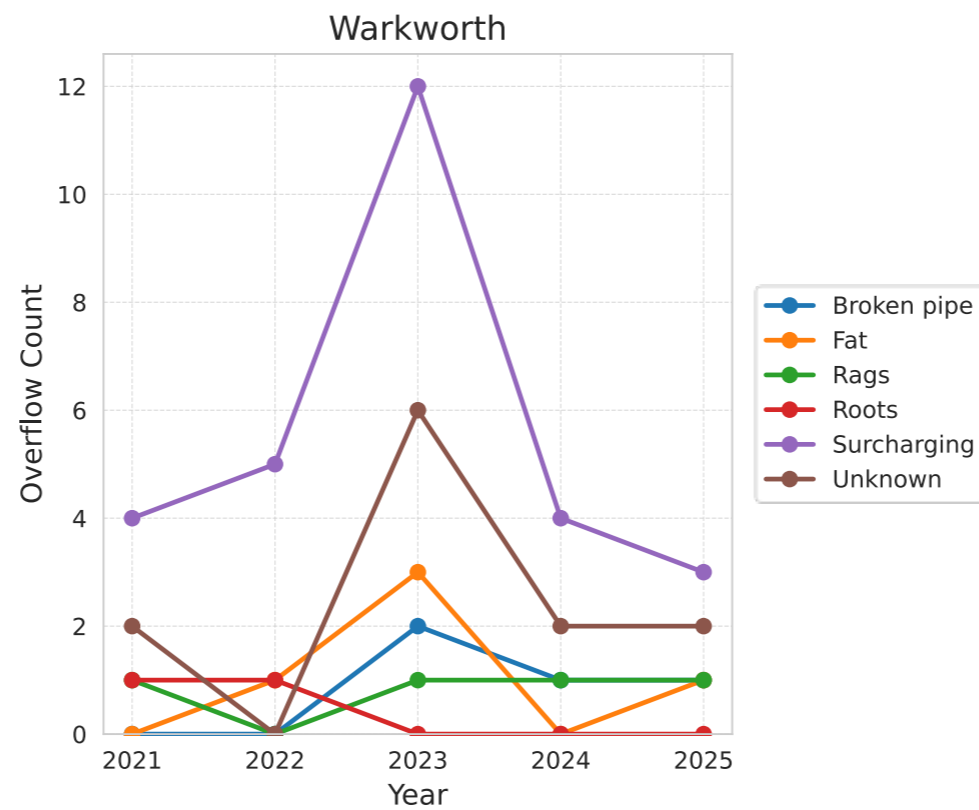
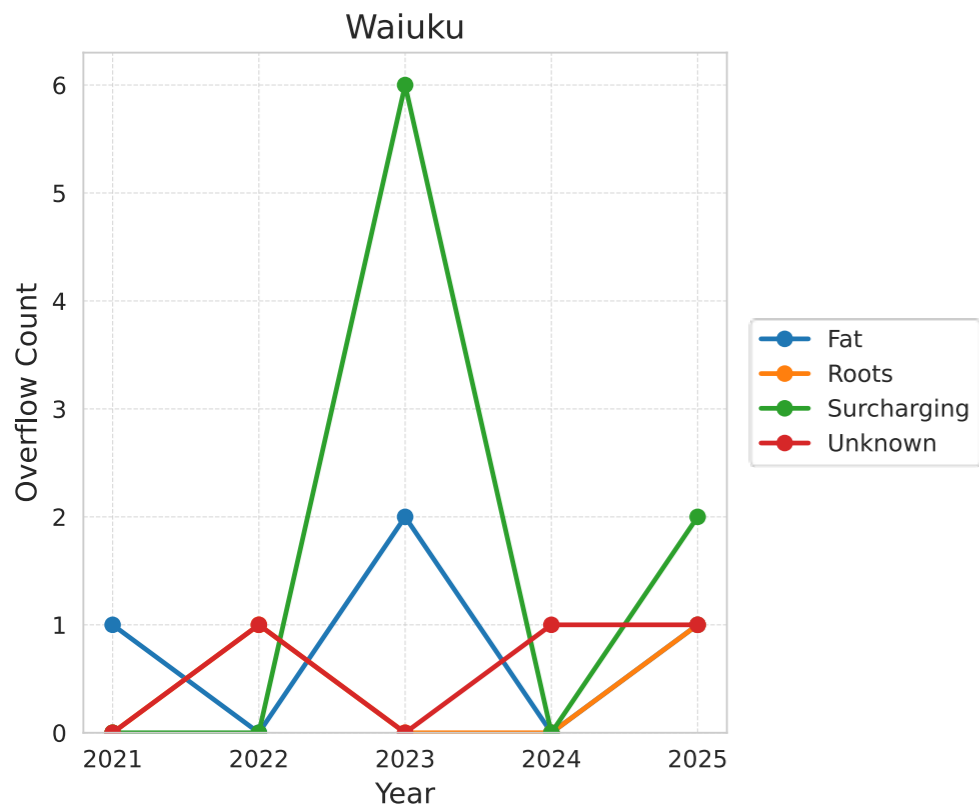
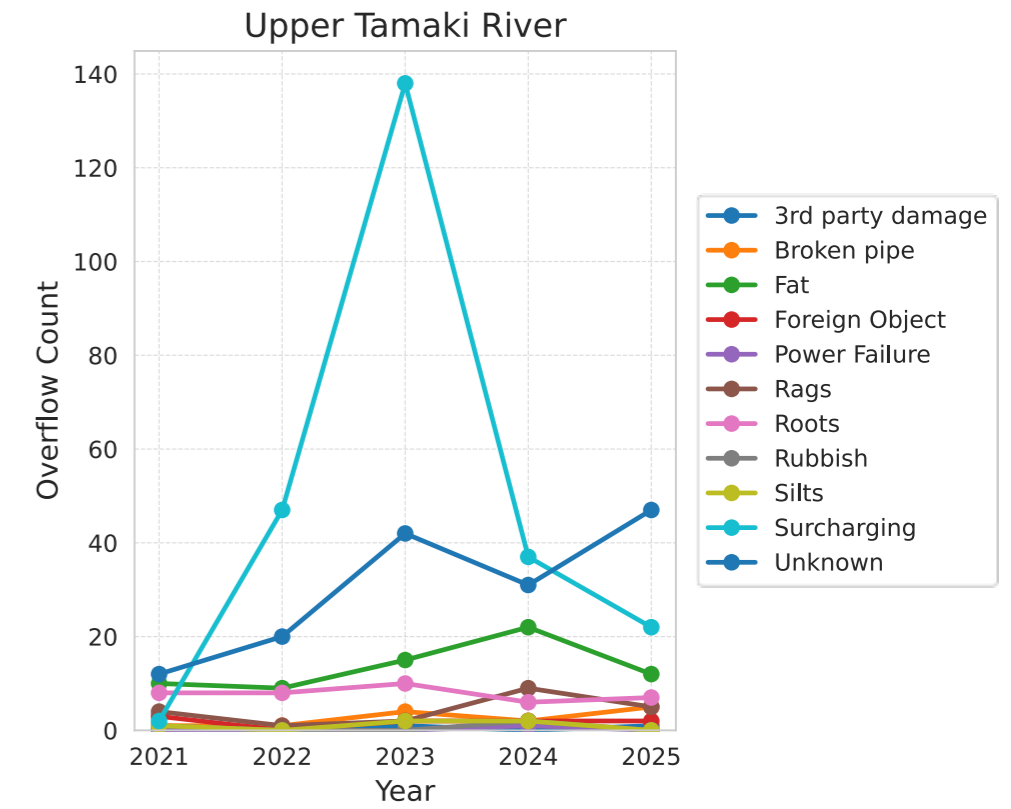
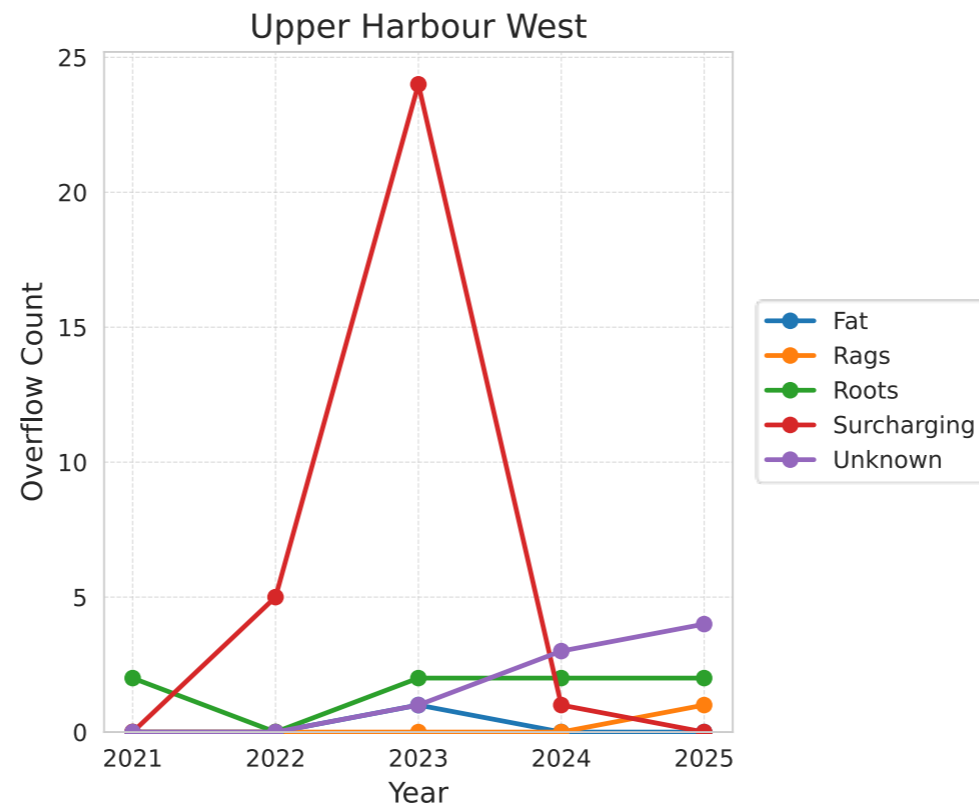
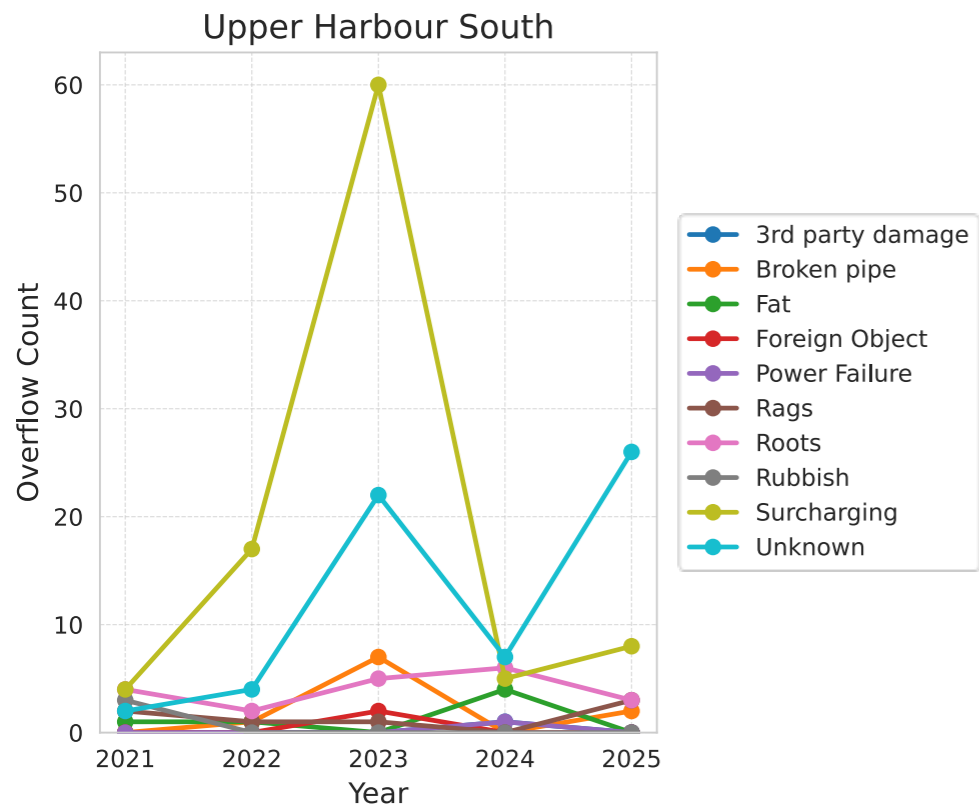


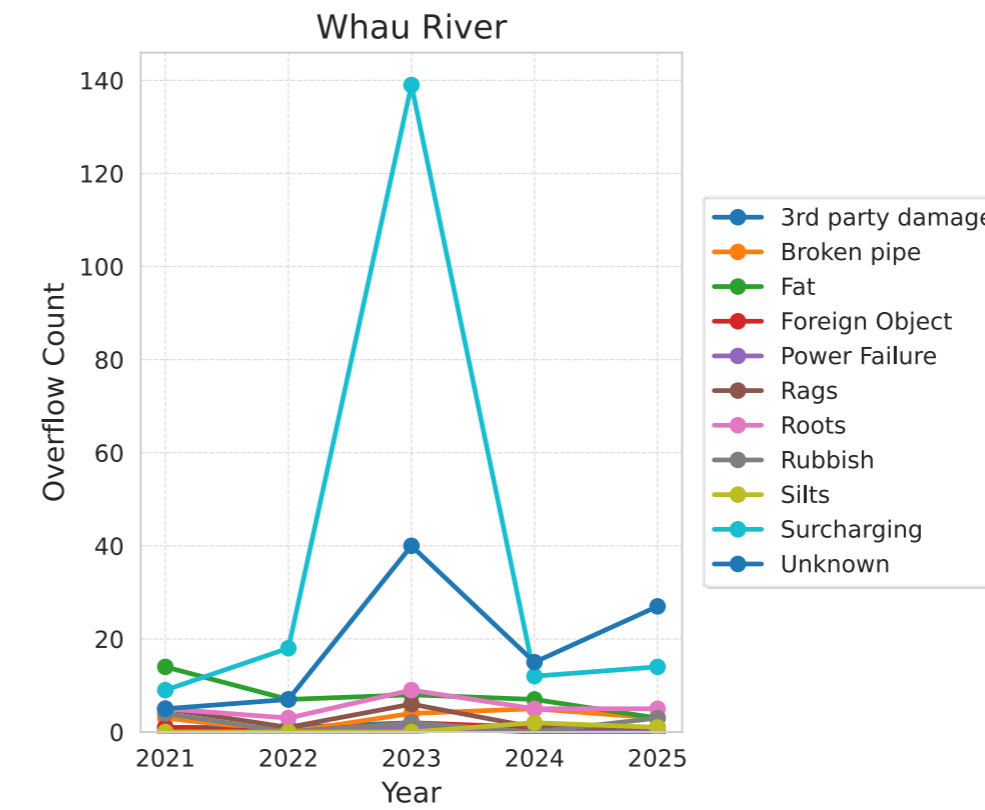
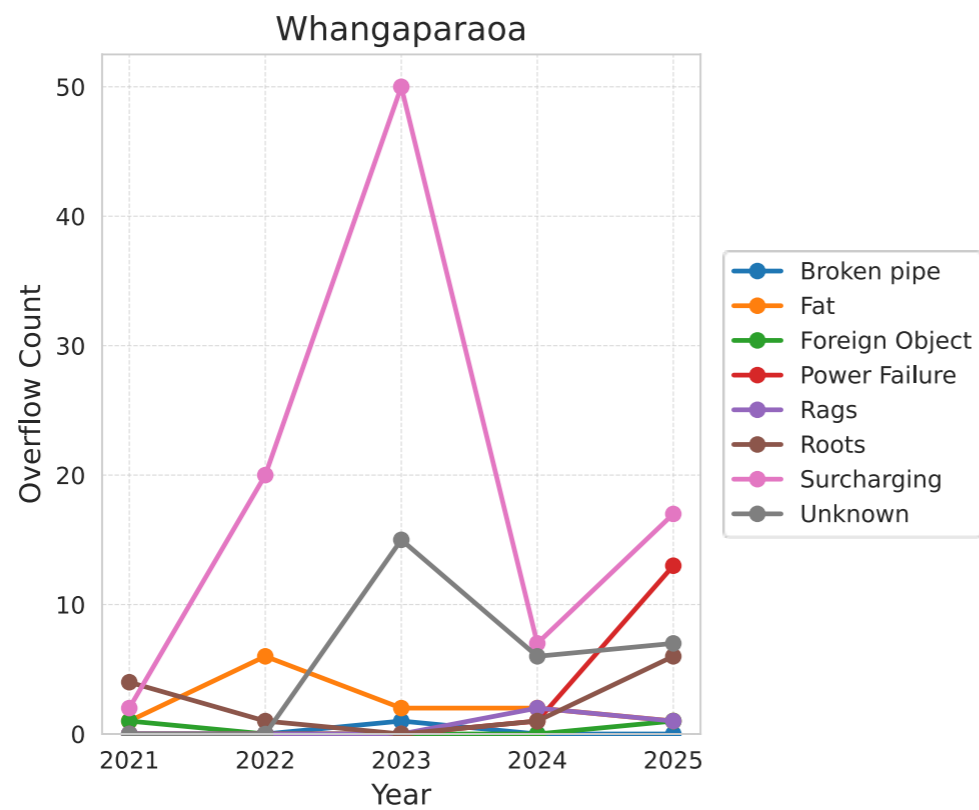
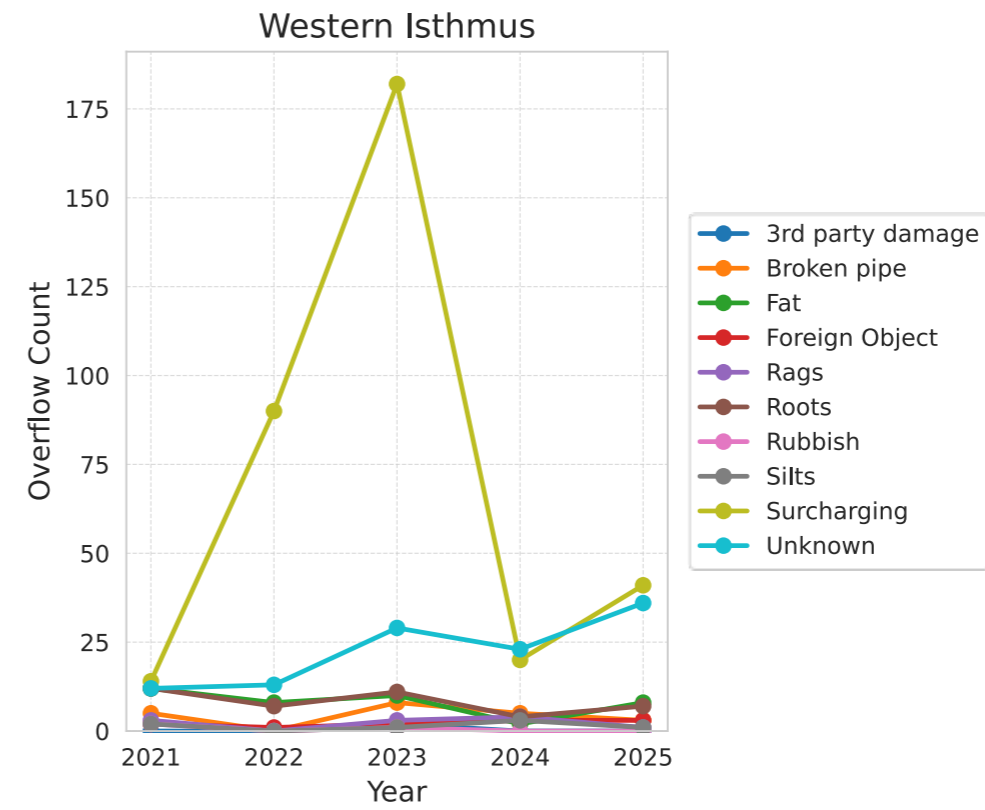
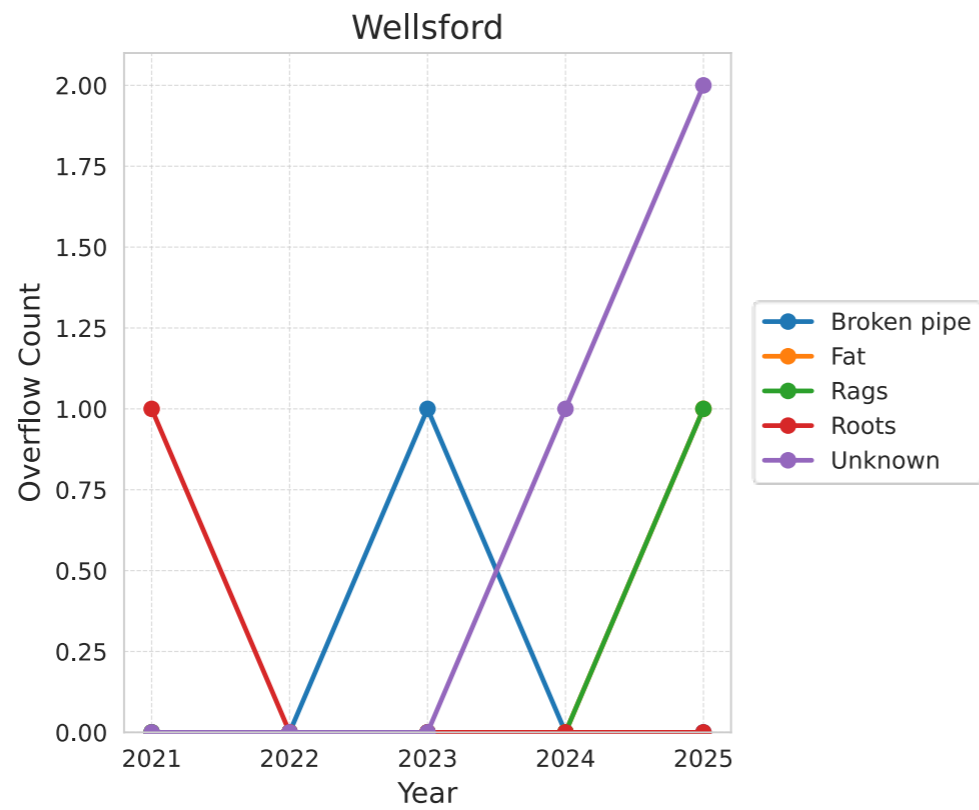
Snells Beach/ Algies Bay



Upper Harbour North







Appendix E. Statistical Analysis

Table E-1 Type-3 OLS regression output summary for DWOs across Auckland

Table E-2 Type-3 OLS regression output summary for DWOs at individual catchments

Table E-3 Type-3 Summary of OLS fit to regional DWO totals (n = 5 years)

Table E-4 Type-3 Summary output of statistically significant emerging WWO trends

Table E-5 Type-3 Blockage related causes statistical summary for WWOs

Table E-6 Type-3 Summary output of complete linear regression analysis (all causes) for WWOs

Table E-7 Type-3 Summary output of OLS regression for top 10 catchments with highest WWOs over five years

Table E-1 Type-3 OLS regression output summary for DWOs across Auckland

Metric	Value
R2	0.935687139
Adj_R2	0.919266834
F_stat	56.9835418
F_pvalue	7.77527E-24

Cause	Beta	Beta_ci_low	Beta_ci_high	Beta_pvalue	R2
3rd party damage	-6.6	-16.5354866	3.335486594	0.12488534	0.598351648
Broken pipe	4.4	-9.27094381	18.07094381	0.38108716	0.259100642
Fat	-134.5	-359.744893	90.74489254	0.15358199	0.546227609
Foreign Object	-18.3	-45.6388006	9.038800617	0.12298085	0.60201697
Mechanical	0.1	-0.3861267	0.586126703	0.55940434	0.125
Power Failure	0.8	-1.77234072	3.372340723	0.39526511	0.246153846
Rags	-33.7	-159.646494	92.24649363	0.45704555	0.194656789
Roots	-176.3	-378.422758	25.82275781	0.06922894	0.71976814
Rubbish	-13.8	-59.7816688	32.18166881	0.40998176	0.233176609
Silts	-7.8	-45.9309662	30.33096618	0.56146618	0.123779297
Unknown	28	-185.185266	241.1852663	0.70407325	0.055032528
WW Cross Connection	0.2	-0.16747725	0.567477246	0.18169011	0.5

Table E-2 Type-3 OLS regression output summary for DWOs at individual catchments

metric	value
median_R2	0.852233459

catchment	cause	beta	p_value	r2	ci_lower	ci_upper
Beachlands Maraetai	Broken Pipe	-0.8	0.040519326	0.8	-1.534954492	-0.065045508
Beachlands Maraetai	Fat	-1.1	0.035081515	0.817567568	-2.054733892	-0.145266108
Beachlands Maraetai	Roots	-1.5	0.028715608	0.839552239	-2.704854726	-0.295145274
Central Auckland	Roots	-6.1	0.009991212	0.919219368	-9.422571488	-2.777428512
Devonport-Takapuna	Silts	0.6	0.013846833	0.9	0.232522754	0.967477246
East Coast Bays	Fat	-15.7	0.019973505	0.873087277	-26.69825695	-4.701743054
Helensville	Unknown	-1.5	0.028715608	0.839552239	-2.704854726	-0.295145274
Henderson Creek	Foreign Object	-3	0.02021537	0.872093023	-5.110996062	-0.889003938
Hobson Bay	Roots	-25.9	0.025269901	0.852233459	-45.71568023	-6.084319766
Laingholm	Fat	-3.7	0.00068254	0.986311239	-4.50089809	-2.89910191
Lower Tamaki River	Roots	-13.1	0.04262161	0.793462179	-25.38028465	-0.819715345
Omaha	Unknown	1.2	0.029370495	0.837209302	0.227746594	2.172253406
Onehunga	Roots	-12.4	0.005014229	0.948667325	-17.69983222	-7.100167785
Onehunga	Silts	-2	0.044608279	0.787401575	-3.909467783	-0.090532217
Pukekohe	Fat	-2.6	0.018273009	0.880208333	-4.362358961	-0.837641039
Pukekohe	Power Failure	-0.5	0.046661882	0.78125	-0.986126703	-0.013873297
Shoal Bay	Roots	-11.8	0.020026606	0.872868606	-20.07436039	-3.525639606
Waiuku	Foreign Object	-0.5	0.046661882	0.78125	-0.986126703	-0.013873297
Western Isthmus	Roots	-18.5	0.016635286	0.88730167	-30.61421501	-6.385784986

Table E-3 Type-3 Summary of OLS fit to regional DWO totals (n = 5 years)

metric	value
Slope (DWOs/year)	-357.5
95% CI Lower	-867.15
95% CI Upper	152.15
P-value	0.11175
R-squared	0.62423
Number of years (n)	5

Table E-4 Summary output of statistically significant emerging WWO trends ($p < 0.10$)

Cause	2021	2022	2023	2024	2025	Total	Slope (β)	R ²	p-value	Significance
Silts	6	3	7	13	13	42	2.4	0.727	0.0663	$p < 0.10$ *
Power Failure	0	0	2	3	13	18	2.9	0.718	0.0701	$p < 0.10$ *

Table E-5 Blockage related causes statistical summary for WWOs

Cause	2021	2022	2023	2024	2025	Total	Slope (β)	R ²	p-value	Significance
Rags	39	13	32	38	44	166	3.5	0.21	0.4374	NS
Fat	120	87	96	111	91	505	-3.4	0.148	0.5228	NS
Roots	122	75	152	94	100	543	-2.5	0.018	0.8299	NS

Table E-6 Summary output of complete linear regression analysis (all causes)

Cause	2021	2022	2023	2024	2025	Total	Slope (β)	R ²	p-value	Significance
Silts	6	3	7	13	13	42	2.4	0.727	0.0663	$p < 0.10$ *
Power Failure	0	0	2	3	13	18	2.9	0.718	0.0701	$p < 0.10$ *
Unknown	100	125	394	225	368	1212	63.6	0.553	0.1496	NS
Rubbish	21	4	5	4	8	42	-2.6	0.323	0.3174	NS
Rags	39	13	32	38	44	166	3.5	0.21	0.4374	NS
Fat	120	87	96	111	91	505	-3.4	0.148	0.5228	NS
Broken pipe	22	7	63	37	28	157	4.2	0.102	0.5999	NS
Roots	122	75	152	94	100	543	-2.5	0.018	0.8299	NS
Surcharging	69	479	1535	284	277	2644	22.1	0.004	0.9235	NS
3rd party damage	5	3	14	8	3	33	0.1	0.001	0.9564	NS
Foreign Object	17	5	26	19	10	77	0.0	0.0	1.0	NS

Table E-7 Summary output of OLS regression for top 10 catchments with highest WWOs over five years

Catchment	2021	2022	2023	2024	2025	Total	Slope (β)	P-value	R-squared	Trend
Henderson Creek	65	82	303	103	97	650	8.5	0.8256	0.019	Stable
Western Isthmus	64	119	249	64	100	596	1.7	0.9552	0.001	Stable
Upper Tamaki River	42	86	216	114	101	559	14.6	0.5526	0.129	Stable
East Coast Bays	36	73	195	98	101	503	15.5	0.4855	0.173	Stable
Whau River	47	37	213	48	57	402	3.1	0.9162	0.004	Stable
Hobson Bay	48	65	139	69	63	384	3.4	0.8088	0.023	Stable
Lower Tamaki River	24	37	87	48	48	244	5.9	0.5088	0.157	Stable
Shoal Bay	26	39	85	37	41	228	2.8	0.7541	0.038	Stable
Onehunga	23	24	116	31	28	222	1.7	0.9148	0.004	Stable
Upper Harbour South	16	26	97	24	42	205	5	0.6952	0.058	Stable

Appendix F. TMP Documentation

Targeted Monitoring Programme Pilot Study – Draft

F-A Freshwater assessment

F- B Continuous monitoring

F-C Marine assessment

F-D Pilot TMP

Prepared for
Watercare Services Limited
ABN: N/A

AECOM

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Stage 1 Targeted Monitoring Programme: Pilot Monitoring

21-Nov-2025

DRAFT

Stage 1 Targeted Monitoring Programme: Pilot Monitoring

Client: Watercare Services Limited

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21-Nov-2025

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DRAFT**Quality Information**

Document Stage 1 Targeted Monitoring Programme: Pilot Monitoring
 Ref
 Date 21-Nov-2025
 Originator Aria Kerebs, Dannie Cullen, Morgan Witton
 Checker/s Morgan Witton
 Verifier/s Fiona Davies – Ecology Practice Lead

Revision History

Rev	Revision Date	Details	Approved	
			Name/Position	Signature
V1	26-Sep-2025	Draft for client comment	Morgan Witton/ Principal Ecologist and Project Manager	

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DRAFT**Abbreviations**

Abbreviation/Acronym	Definition
%PTV	Percentage Pollution Tolerant Value
AECOM	AECOM New Zealand Limited
AFDW	Ash Free Dry Weight
ANZG	Australian & New Zealand Guidelines for Fresh and Marine Water Quality
cBOD	Carbonaceous biochemical oxygen demand
DGV	Default guideline values
DO	Dissolved oxygen
DRP	Dissolved reactive phosphorous
EOP	Engineered Overflow Point
EPT Taxa	<i>Ephemeroptera</i> (mayflies), <i>Plecoptera</i> (stoneflies) and <i>Trichoptera</i> (caddisflies) Taxa
FNU	Formazin Nephelometric Units
FWA	Fluorescent Whitening Agent
GV-High	Above ANZG (2018b) 'upper' guideline values
HQS	Habitat quality scores
IANZ	International Accreditation New Zealand
LOR	Laboratory Limit of Reporting
MCI/MCI-sb	Macroinvertebrate Community Index/for soft-bottomed streams
MPN	Most Probable Number
NDC	Auckland-Wide Network Discharge Consent
NIWA	National Institute of Water and Atmospheric Research
NMDS	Non-metric multidimensional scaling
NPS-FM	National Policy Statement for Freshwater Management (2020)
NPS-FM Attribute Band	Band A = Healthy, Band B = Slightly impaired, Band C = Moderately impaired, Band D = largely impaired (national bottom line)
NTU	Nephelometric Turbidity Unit
PTV	Pollution Tolerant Values
QM-1b	Quantitative Method 1b
QMCI/QMCI-sb	Quantitative Macroinvertebrate Community Index/for soft-bottomed streams

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Abbreviation/Acronym	Definition
RAM-1	Rapid Assessment Method 1
RHA	Rapid Habitat Assessment
SPI	Specific Pollution Sensitivity Index
T+T	Tonkin & Taylor
TDI	UK Trophic Diatom Index
TICI	Taxon-Independent Community Index
TMP	Targeted Monitoring Programme
TSS	Total suspended solids
Watercare	Watercare Services Limited

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Executive Summary

Watercare Services Limited (Watercare) have engaged AECOM New Zealand Limited (AECOM) to undertake the Stage 1 pilot monitoring as part of the Targeted Monitoring Programme (TMP) required by Watercare to meet conditions of their Auckland-Wide Network Discharge Consent (NDC). The purpose of the TMP pilot monitoring was to assess the ecological effects of wastewater overflows on the receiving environments and establish suitable monitoring methodologies. This report presents the freshwater component of the TMP, specifically relating to 'small waterways'; in addition to the analysis of long-term continuous water quality monitoring undertaken at Oakley Creek, Warkworth, Meola Creek, and Taipari Strand.

Field investigations were carried out at six sites across the Auckland region during March (summer) and August (winter) 2025. Each site included an upstream (control) and downstream (impact) location in relation to wastewater overflows. The sampling assessed a comprehensive suite of parameters including physicochemical, biological and functional indicators, including habitat assessment, in-situ and continuous water quality, laboratory analyses, sediment quality, cotton tensile strength, periphyton macroinvertebrates and diatoms.

In-situ and continuous water quality

Mean seasonal conductivity and turbidity were above the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG) 80th percentile default guideline across seasons. Dissolved oxygen (DO) was the only parameter that indicated a significant difference between upstream and downstream sites. All other *in situ* and continuous water quality parameters were not significant. Temperature, DO, and turbidity showed correlations with ecological indicators, particularly Quantitative Macroinvertebrate Community Index (QMCI), percentage Pollution Tolerant Values (%PTV) and Specific Pollution Sensitivity Index (SPI). Statistically significant differences between upstream and downstream sites were observed with DO, %PTV, and SPI ($p < 0.05$), suggesting localised effects, that is subsequently evidenced in the diatom community.

Water quality laboratory results

Seasonal variation was observed in total suspended solids (TSS), Total Phosphorus (TP), Carbonaceous Biochemical oxygen demand (cBOD), *Escherichia coli* (*E-coli*), total ammoniacal-N, Nitrate, Nitrite, Dissolved Reactive Phosphorus (DRP) and UV fluorescence. Most sites exceeded the ANZG 80th percentile for TP and were within attribute Bank D (national bottom line) for *E-coli*. Statistically significant differences were observed between upstream and downstream sites for TSS and DRP ($p < 0.05$). Nutrients (ammoniacal N, nitrite, nitrate) and DRP correlated with several ecological indicators, including percentage pollution tolerant values (%PTV), Specific pollution index (SPI), chlorophyll *a*, and cotton tensile strength. Higher nutrient and DRP concentrations were correlated with increased %PTV and reduced SPI. While Chlorophyll *a* showed a significant positive correlation with nutrients (*e-coli* and nitrates). This indicates that nutrient monitoring may provide insight into potential ecological effects from wastewater discharges. Low cotton tensile strength was correlated with high nutrient concentrations, suggesting possible nutrient driven microbial breakdown. However, cotton tensile strength was variable and not always representative of increased cotton tensile loss downstream. Subsequently, the resulting variability was problematic and consequential relationships driven by wastewater overflows were not consistently apparent.

Sediment analysis

Heavy metals (total recoverable arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), zinc (Zn), boron (B), and mercury (Hg)) were analysed in sediment samples. Most samples were below DGVs for As, Cd, and Cr. Ni exceeded DGVs at all sites except EOP6_US (summer) and EOP732_DS (winter). Zn also exceeded DGVs at several sites, though patterns were inconsistent across upstream/downstream locations and seasons. Although Cr concentrations were below DGVs, statistically significant relationships were detected in summer ($p > 0.05$). Diatom indices consistently correlated with heavy metals, whereby elevated Cr, Cd, Cu, and Zn were associated with higher %PTV and lower SPI. Positive correlations were also present with As concentrations and cotton tensile strength. High concentrations of As in sediment has been shown to inhibit microbial breakdown

indicative that higher levels of As may be associated with decreased breakdown of cotton-strips.

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However, the variability in cotton tensile strength between upstream and downstream means effects cannot be attributed purely to wastewater overflows. Sediment grain size was predominantly gravel, with limited variation across sites. Only two sites exhibited seasonal differences in grain composition, and no significant upstream/downstream differences were observed.

Biological indicators

Macroinvertebrate communities were dominated by pollution-tolerant taxa, with all MCI and QMCI values below the national bottom line. No significant differences were evident between upstream and downstream sites nor between seasons. This is likely attributed to the existing degraded sites poor habitat quality and surrounding catchment pressures, irrespective of wastewater overflows. Biological indicators, including macroinvertebrates and diatoms, showed relationships with multiple water quality parameters. Both macroinvertebrate and diatom indices responded predictably to changes in temperature, DO, conductivity, and nutrient concentrations, reinforcing their role as integrative measures of stream health and reflect well-established ecological processes. Diatom assemblages reflected water quality conditions ranging from 'High quality' to 'Poor quality', consistent with fresh-brackish, circumneutral-alkaline, mesotrophic and eutrophic conditions. In winter diatom assemblages generally improved, reflecting water quality conditions of 'Good' and 'Moderate'. Diatom indices were the only biological indicator to show statistically significant differences from upstream to downstream sites. Subsequently, statistically significant correlations were present with DO (mg/L), nutrients (TP, cBOD, Ammoniacal-N, Nitrites, DRP) and heavy metals (Cs, Cr, Cu and Zn). The strength and direction of these associations indicate that these physicochemical parameters are reliable indicators of ecological stress and should form a core component of monitoring.

Overall ecological effects on small waterways from wastewater overflows

Variability in physical, physicochemical and ecological health was evident across Engineered Overflow Points (EOPs), between upstream and downstream sites and across seasons. The majority of these sites were indicative of poor ecological health evidenced by pollution tolerant taxa and biotic indices indicative of poor habitat quality or pollution. Generally, downstream sites had high conductivity, high turbidity and low dissolved oxygen. Heavy metal contamination was further apparent. Significant differences were evident for total suspended solids, nutrients, DRP, Cr and diatom indices (%PTV and SPI) between upstream and downstream sites. Although not all significant differences could be attributed to wastewater overflows, with some parameters on average improving downstream (e.g., %PTV and SPI). This highlights the challenges with isolating wastewater effects in already degraded stream systems underscoring the recommendation to include a wider array of EOPs. However, some EOPs performed more poorly than others. EOP281 and EOP588 were identified as the highest ecological risk sites¹ and exhibited macroinvertebrate and diatom indices typical of degraded conditions and organic pollution. Overall, the parameters analysed performed well in quantifying and categorising habitat indicative of degraded systems.

Long-term continuous water quality monitoring data was assessed to determine whether overflow events were associated with material changes to receiving waterbody water quality. Results indicated that there were significant differences in water quality conditions during overflow events relative to baseline conditions. During overflows, conductivity and pH levels reduced, while DO and turbidity increased. These data are consistent with the WaQa continuous monitoring data undertaken across the TMP pilot monitoring sites, where the first-flush dilution signature resulted in reduced conductivity and pH and elevated DO and turbidity. The consistency across these datasets could suggest that conductivity, pH, DO and turbidity are key parameters when assessing water quality and overflows. The observed correlations between reduced DO and conductivity and %PTV and SPI suggest diatom indices may be important biological indicators for tracing ecological effects from wastewater overflows.

Overall, the long-term monitoring data at Oakley Creek, Warkworth, Meola Creek, and Taipari Strand support the conclusions from the TMP pilot continuous water quality monitoring results. This highlights the importance of continuous water quality monitoring at EOPs.

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Recommendations for future NDC monitoring

Based on field surveys and statistical data analyses undertaken in this TMP pilot monitoring, the following recommendations are provided to support the development of a monitoring plan aimed at detecting potential ecological effects associated with wastewater discharges. The monitoring plan should include sampling parameters, methodologies, locations, and timing. Recommendations of sampling parameters and methodologies include:

- **Rapid Habitat Assessment**
- **Instream water quality**
 - *Continuous water quality monitoring*
 - Temperature (°C);
 - Dissolved oxygen (DO) (%);
 - Dissolved oxygen (DO) (mg/L)
 - Conductivity (µS/cm);
 - Turbidity (Nephelometric Turbidity Unit (NTU)); and
 - pH (pH units).
- **Water samples**
 - Carbonaceous biochemical oxygen demand (cBOD) (g O₂/m³);
 - *Escherichia coli* (MPN/100 mL);
 - Total Ammoniacal-N (mg/L);
 - Nitrite-N (mg/L);
 - Nitrate-N (mg/L);
 - Nitrate-N + Nitrite-N (mg/L);
 - Dissolved Reactive Phosphorus (DRP) (mg/L);
 - UV fluorescence
- **Sediment samples** including heavy metal analysis of Total Recoverable Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury, and Zinc.
- **Diatoms** (three replicate samples collected at upstream and downstream locations).
- **Macroinvertebrates** (three replicate samples collected at upstream and downstream locations).

Each sampling location should include an upstream and downstream site (i.e. upstream of the wastewater EOP, and downstream of the wastewater EOP).

It is recommended to continue monitoring the selected sites in future monitoring, with the inclusion of EOPs with a moderate to low ecological risk classification. This would allow comparison between risk categories (representing differing wastewater impact levels) over a range of stream conditions. In addition, it is recommended that monitoring should be undertaken annually during the summer period (December, January, February).

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1 Introduction

Watercare Services Limited (Watercare) have engaged AECOM New Zealand Limited (AECOM) to undertake the Stage 1 pilot study as part of the Targeted Monitoring Programme (TMP) required by Watercare to meet the conditions of the Auckland-Wide Network Discharge Consent (NDC).

This report presents the results of the Stage 1 TMP pilot study completed by AECOM between March 2025 and August 2025, and the analysis of historical monitoring at Oakley Creek, Warkworth, Meola Creek, and Taipari Strand.

1.1 Background

1.1.1 Consent conditions

Watercare operates wastewater networks throughout the Auckland Region from Wellsford in the north to Waiuku in the south. Watercare obtained an Auckland-Wide Network Discharge Consent (NDC) to manage overflows to the environment due to blockages or surcharges. The NDC was granted in 2014 by Auckland Council.

Conditions 58, 59, and 61 (Table 1-1) of the NDC require that Watercare develop and undertake a TMP to confirm the assumptions of the methodology for the Assessment of Effects of Wet Weather Wastewater Overflows (Watercare, 2016).

Table 1-1 Relevant conditions of the NDC

Condition number	Condition details
58	<i>The Consent Holder shall undertake a targeted monitoring programme with the objective of confirming that the application of the Methodology for the Assessment of Effects of Wet Weather Wastewater Overflows in Attachment 5 results in an appropriate assessment of recreational, public health and ecological effects.</i>
59	<i>The Consent Holder shall, within 12 months of this consent being granted, provide an outline monitoring plan setting out the scope, methodology, and timing of the proposed targeted monitoring programme to the satisfaction of the Manager for approval.</i>
61	<p><i>The scope, methodology, and timing shall include:</i></p> <ul style="list-style-type: none"> <i>a. A methodology for collecting appropriate data on wastewater overflows, their characteristics and the changes (if any) caused in identified receiving environments.</i> <i>b. A methodology for analysing the data collected to ensure that the results are capable of achieving the targeted monitoring programme's objective.</i> <i>c. A description of how the monitoring design will take account of and integrate data from existing monitoring programmes undertaken by third parties (if any) to support spatial and temporal trend analysis and assessing the influence of other factors (not related to wastewater overflows).</i> <i>d. The expected timeframe over which the monitoring programme will be undertaken to achieve its objective, which must be a minimum of three years duration but not exceeding five years duration.</i>

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1.1.2 Previous work

1.1.2.1 Watercare 2023

To meet the requirements of the NDC consent conditions, a TMP was developed, and Watercare's performance against the NDC was assessed from 2022 to 2023 (Watercare, 2023). The TMP consisted of two stages, Stage One and Stage Two.

1.1.2.1.1 Stage One

Stage One of the TMP used event-based sampling water quality sampling and semi-quantitative ecological data collection. Sampling focused on three catchments with different environmental characteristics (a beach, a harbour, and a stream) and occurred during or shortly after storm events. Although the sampling results occasionally detected elevated wastewater indicators, results of Stage One were inconclusive due to inconsistent first flush sampling, and variable storm conditions.

1.1.2.1.2 Stage Two

Stage Two of the TMP used continuous water quality monitoring and eDNA profiling. From 2021 to 2023 continuous sensors were installed at four sites:

- The Mahurangi River, immediately downstream from the Warkworth township;
- Te Wai-o-Pareira/Henderson Creek at Taipari Strand, downstream of the Whenuapai branch wastewater siphons;
- Te Auaunga/Oakley Creek downstream of the waterfall, and downstream of an Engineered Overflow Point (EOP) on the Orakei Main Sewer; and
- Waititiko/Meola Creek near Mt Albert.

Parameters measured included optical brightness, tryptophan and physicochemical parameters (pH, conductivity, turbidity, and dissolved oxygen). At Te Auaunga, nitrate was also measured, and at Waititiko an upgraded tryptophan probe was used, along with biochemical and chemical oxygen demand, organic carbon, blue green algae, and physicochemistry.

Initial water quality results from the continuous water quality monitoring identified significant challenges. For example, flood events caused turbidity spikes and broke equipment, resulting in missing data. In addition, more recent data was inconsistent with older data, and spikes in parameters may be due to sensor errors, or debris, not water quality.

No correlation between tryptophan and rainfall was detected, and the conclusion made was that overflows occur during heavy rain, which is already a known pattern. However, the new probe installed at Waititiko in 2023 showed improved detection of overflow events, with biochemical oxygen demand spikes aligning with heavy rain.

eDNA profiling was used to trace wastewater impacts and as a semi-quantitative assessment of ecological health using the Taxon-Independent Community Index (TICI). Two sampling rounds were completed at Te Auaunga and Karetu / Anns Creek as they were known to receive significant wastewater overflows. Results indicated that Karetu had a poor TICI value (TICI = 88.39) and Te Auaunga had an average TICI value (TICI = 91.28).

1.1.3 Pilot Monitoring Plan

The Auckland-Wide Network Discharge Consent 2022-2023 Annual report (Watercare, 2023) noted that Watercare would engage ecologists from Tonkin & Taylor (T+T) and AECOM to begin a programme of ecological monitoring to supplement the ongoing Stage Two TMP monitoring. A workshop was held between AECOM and T+T in June 2024 to produce a Pilot Monitoring Plan and inform the development of a Stage 1 TMP pilot study. AECOM was then engaged by Watercare to undertake a site survey to assess the suitability of freshwater monitoring sites selected during the Stage One TMP Pilot Monitoring Plan workshop (undertaken on 10 June 2024). EOPs were chosen to represent 'small streams' as a direct discharge type with a previously categories ecological risk classification of 'High' to 'Very High' (NIWA, 2015; Watercare, 2016). The site survey indicated that three sites were suitable (EOP588, EOP732, and EOP6). Two additional sites were added following discussion with Watercare (EOP281 and EOP734), and EOP831 (and the associated control site

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EOP850) representing a 'Moderate' ecological risk classification was included prior to sampling in March 2025.

1.2 Scope and purpose

The overall purpose of this Stage 1 TMP pilot study is to establish suitable monitoring methodologies and parameters to be used for ongoing regular monitoring as part of the TMP to meet the conditions of the NDC.

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2 Methodology

Sampling was undertaken during March 2025 (summer) and August 2025 (winter)¹. Sampling locations are described in Section 2.1 and methodologies are detailed in Sections 2.2 to 2.6.

2.1 Sampling locations

As per the pilot monitoring plan (AECOM, 2024), sampling was undertaken at six sampling locations within the Auckland region. Each location had a downstream (DS - test) site and upstream (US - control) site.

The location of each site is detailed in Table 2-1 and Figure 2-1. A photographic log showing instream and riparian condition is also provided in Appendix A.

Table 2-1 Stage 1 TMP pilot study sampling locations

Site	Stream name	Description	Ecological Risk (Watercare, 2016)	Coordinates (WGS, 1984)
EOP6_US	Lincoln Stream	Soft bottom (control site). Low-order stream (1), urban landcover, low gradient valley landform	High	-36.858175, 174.624706
EOP6_DS	Lincoln Stream	Soft bottom (test site). Low-order stream (1), urban landcover, low gradient valley landform	High	-36.857769, 174.624953
EOP281_US	Meadowbank Stream West	Hard bottom (control site) Low-order stream (1), urban landcover, low gradient valley landform	Very High	-36.876222, 174.816042
EOP281_DS	Meadowbank Stream West	Hard bottom (test site). Low-order stream (1), urban landcover, low gradient valley landform	Very High ²	-36.876097, 174.816142
EOP588_US	Remuera Stream	Soft bottom (control site). Low-order stream (1), urban landcover, medium gradient valley landform	Very High	-36.870753, 174.802294
EOP588_DS	Remuera Stream	Soft bottom (test site). Low-order stream (1), urban landcover, medium gradient valley landform	Very High	-36.870511, 174.802383
EOP732_US	Lower Meola Creek	Soft bottom (control site). Middle-order stream (3), urban landcover, low gradient valley landform	Moderate	-36.864528, 174.716925
EOP732_DS	Lower Meola Creek	Soft bottom (test site). Middle-order stream (3), urban landcover, low gradient valley landform	Moderate	-36.864800, 174.716775

² EOP281 was recorded to have a direct ecological risk of 'moderate', but a calculated ecological risk of 'very high' (Watercare, 2016).

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Site	Stream name	Description	Ecological Risk (Watercare, 2016)	Coordinates (WGS, 1984)
EOP734_US	Meola Creek (Lyon Avenue)	Hard bottom with sediment loading on top of rock substrate (control site). Low-order stream (2), urban landcover, low gradient valley landform	Very High	-36.883983, 174.729408
EOP734_DS	Meola Creek (Lyon Avenue)	Hard bottom with some mobile sediments (test site). Low-order stream (2), urban land cover, low gradient valley landform	Very High	-36.883569, 174.728989
EOP850/831_US	Awaruku Creek	Hard bottom (control site). Low-order stream (2), urban land cover, low gradient valley landform	Moderate	-36.696794, 174.735828
EOP850/831_DS	Awaruku Creek	Soft bottom (test site). Low-order stream (2), urban land cover, low gradient valley landform.	Moderate	-36.694922, 174.742500

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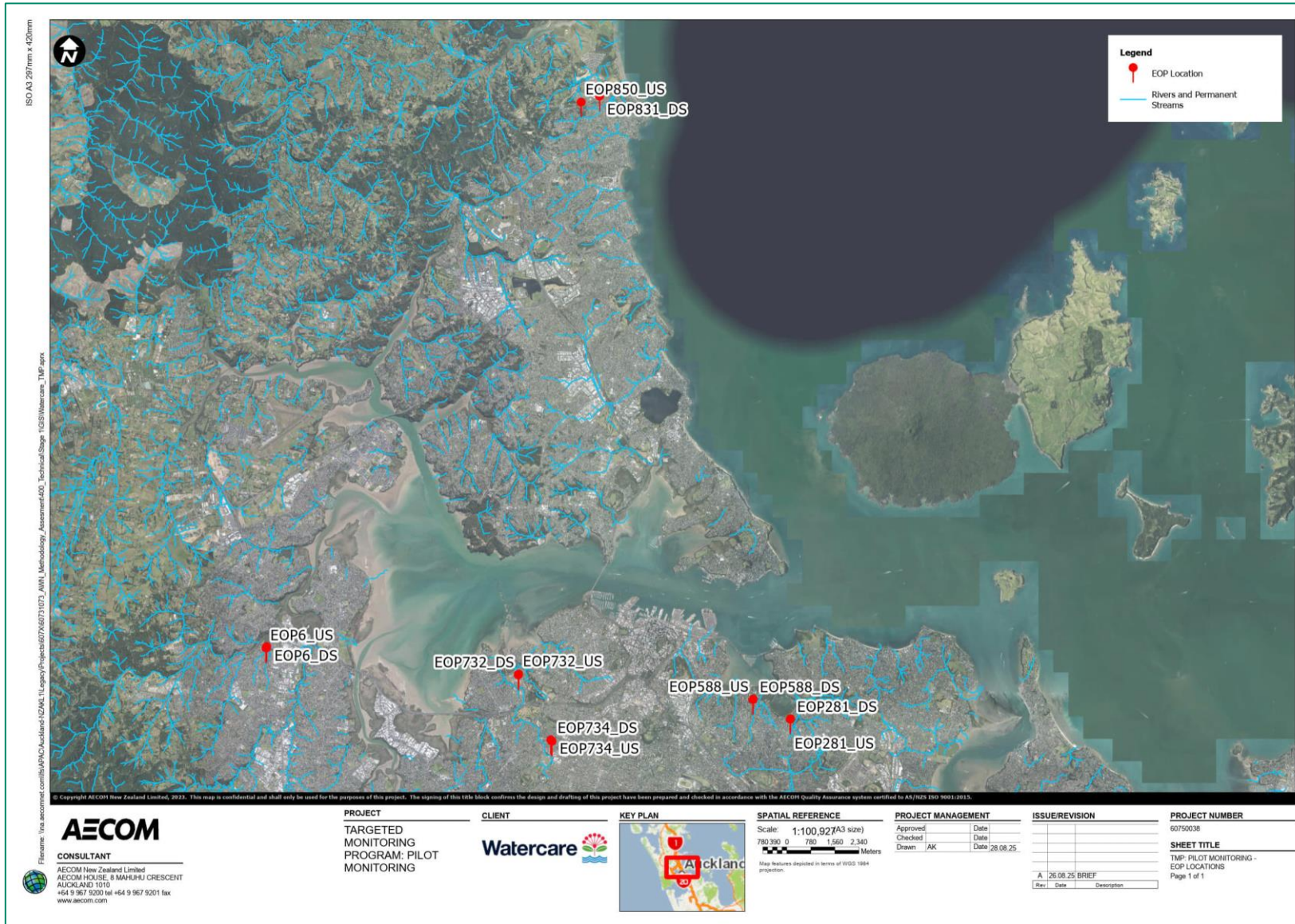


Figure 2-1 Stage 1 TMP pilot study sampling locations (DS = downstream, US = upstream)

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2.2 Physical and physicochemical parameters

2.2.1 Rapid Habitat Assessment

2.2.1.1 Data collection

A Rapid Habitat Assessment (RHA) (Clapcott, 2015) was completed at each site during sampling events. The following ten parameters were scored between 1-10 (1 being the lowest score, and 10 being the highest):

- Deposited sediment
- Invertebrate habitat diversity
- Invertebrate habitat abundance
- Fish cover diversity
- Fish cover abundance
- Hydraulic heterogeneity
- Bank erosion
- Bank vegetation
- Riparian width
- Riparian shade

2.2.1.2 Data analysis

The RHA provides a habitat quality score indicative of the stream habitat condition. The RHA scoring criteria is out of 100 (100 being the highest score). The results of the RHA were used to inform the interpretation of the macroinvertebrate results, thereby providing a control for the influence of habitat diversity and abundance on macroinvertebrate assemblages.

Table 2-2 Habitat quality scoring criteria (Clapcott et al., 2020)

RHA Result	Habitat Quality Score
> 75	Excellent
51 - 75	Good
26 - 50	Fair
0 - 25	Poor

2.2.2 Instream water quality

2.2.2.1 Data collection

At each site the following *in situ* water quality variables were measured using a calibrated multimeter (YSI ProDSS). Variables measured are provided below:

- Temperature (°C)
- Dissolved oxygen (DO) (%)
- Dissolved oxygen (DO) (mg/L)
- Conductivity (µS/cm)
- Turbidity (Nephelometric Turbidity Unit (NTU)) and
- pH (pH units).

Additionally, water clarity was measured using a water clarity tube with a secchi disk attached to the base.

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Water samples were collected at the same time and sent to Hill Labs (International Accreditation New Zealand (IANZ) accredited) for the following analyses:

- Total suspended solids (TSS) (mg/L)
- Total phosphorus (mg/L)
- Carbonaceous biochemical oxygen demand (cBOD) (g O₂/m³)
- *Escherichia coli* (MPN/100 mL)
- Total Ammoniacal-N (mg/L)
- Nitrite-N (mg/L)
- Nitrate-N (mg/L)
- Nitrate-N + Nitrite-N (mg/L)
- Dissolved Reactive Phosphorus (DRP) (mg/L)
- UV fluorescence indicative of Fluorescent Whitening Agents (FWA).

Continuous water quality monitoring sensors ('WaQA' meters) were deployed by AquaWatch in March 2025 at all sites except for EOP732 due to site suitability for the 'WaQA' sensor. The WaQA sensors continuously measured temperature (°C), DO (mg/L), conductivity (µS/cm), turbidity (NTU), and pH.

2.2.2.2 Data analysis

The data was evaluated for normality using the Shapiro-Wilk test. As some parameters were not normally distributed, a non-parametric test (Wilcoxon signed-rank test) was conducted in RStudio (Version 4.4.2) for all parameters described in Section 2.2.2.1.. Locations were categorised into upstream and downstream groups, with six observations in each. The objective of the Wilcoxon signed-rank test was to evaluate if statistically significant differences existed between upstream and downstream sites, thereby enabling generalisation of any potential effects associated with the wastewater outfalls. In addition, water quality data was (where relevant) compared to the National Policy Statement for Freshwater Management (NPS-FM) (2020) Attribute Bands, and the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018a; ANZG, 2018b) guidelines. Spearman rank correlations exhibiting a correlation coefficient (r) greater than +/- 0.5 with a corresponding statistically significant correlation ($p > 0.05$) are presented

Complete continuous monitoring data was provided by AquaWatch in October 2025 for the period of March 2025 – August 2025.

2.2.3 Sediment analyses

2.2.3.1 Data collection

One composite sediment sample was collected at each site within the stream thalweg during each sampling event and sent to Hill Labs (IANZ accredited) for the following analyses:

- Sediment grain size analysis;
- Non-metals and metalloids: Total Recoverable Boron, Total Recoverable Phosphorus, ammonium-N (mg/kg dry wt) and Total Nitrogen (g/100g); and
- Heavy metals: Total recoverable Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Mercury and Zinc (mg/kg dry wt.).

2.2.3.2 Data analysis

Heavy metal results were compared against the ANZG (2018b), specifically the toxicant default guideline values for sediment quality (DGVs). In addition, the same data analysis as described in Section 2.2.3 was undertaken, and a Wilcoxon signed-rank test was conducted for heavy metals.

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2.3 Biological Indicators

2.3.1 Macroinvertebrates

2.3.1.1 Data collection

One composite sample of macroinvertebrate communities was collected at each site during each sampling event using standardised semi-quantitative kick-net sampling (NEMS, 2022). Macroinvertebrate samples were preserved on site in methylated ethanol (70 - 80% end concentration) and sent to a suitably qualified macroinvertebrate taxonomist for analysis.

2.3.1.2 Data analysis

Samples were processed independently by a suitably qualified macroinvertebrate taxonomist using analysis Protocol P3 (full count) (Stark et al., 2001) and followed the minimum laboratory internal quality assurance and quality control practices. The analyses of macroinvertebrate data included:

- Number of taxa - the total number of macroinvertebrate taxa recorded at each site;
- Number of individuals – the total number of individual macroinvertebrates recorded at each site;
- %EPT Taxa – Percentage of Ephemeroptera, Plecoptera, Trichoptera (EPT) Taxa;
- MCI/MCI-sb Value – Macroinvertebrate Community Index/(for soft-bottomed streams) (Stark, 1985); and
- QMCI/QMCI-sb Value – Quantitative Macroinvertebrate Community Index/(for soft-bottomed streams) (Stark, 1985).

Macroinvertebrate data was (where relevant) compared to the NPS-FM (2020) Attribute Bands (Table 2-3), and the same data analysis as described in Section 2.2.2.2 was undertaken, and a Wilcoxon signed-rank test was conducted for the indices described above. A non-metric multidimensional scaling plot (NMDS plot) was also generated (RStudio Version 4.4.2) to represent macroinvertebrate communities at each site and season.

Table 2-3 Interpretation of MCI and QMCI scores to denote stream health as per NPS-FM attribute bands A, B, C, and D (MfE, 2024)

MCI	QMCI	NPS:FM Attribute Band	Description
≥130	≥6.5	A	Macroinvertebrate community, indicative of pristine conditions with almost no organic pollution or nutrient enrichment.
≥110 and <130	≥5.5 and <6.5	B	Macroinvertebrate community indicative of mild organic pollution or nutrient enrichment. Largely composed of taxa sensitive to organic pollution/nutrient enrichment.
≥90 and <110	≥4.5 and <5.5	C	Macroinvertebrate community indicative of moderate organic pollution or nutrient enrichment. There is a mix of taxa sensitive and insensitive to organic pollution/nutrient enrichment.
<90	<4.5	D	Macroinvertebrate community indicative of severe organic pollution or nutrient enrichment. Communities are largely composed of taxa insensitive to inorganic pollution/nutrient enrichment.

2.3.2 Diatoms

2.3.2.1 Data collection

One sample for diatom community analysis was collected at each site during each sampling event. Diatom samples were collected from a representative range of substrates within each site, including hard surfaces (e.g., rocks, cobbles) and aquatic macrophytes. Sampling was undertaken by scrubbing substrate surfaces using a clean, soft-bristled brush into a white plastic tray containing stream water. The water was homogenised to ensure a representative sample of the diatom community, and a

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subsample was transferred into a container and preserved on-site in methylated ethanol (90% end concentration).

Samples were submitted to Earth Sciences New Zealand (formally National Institute of Water and Atmospheric Research (NIWA)) (IANZ accredited) for analysis.

2.3.2.2 Data analysis

A detailed methodology for the analysis of the diatom samples is included in Appendix C. Results were presented using two established diatom indices:

- Percentage Pollution Tolerant Values (%PTV); and
- Specific Pollution Sensitivity Index (SPI).

The %PTV index is derived from the UK Trophic Diatom Index (TDI) developed by Kelly & Whitton (1995), and is specifically designed to detect organic pollution, particularly from sewage outfalls and elevated orthophosphate-phosphorus concentrations. This index does not provide a comprehensive measure of general stream quality but is effective for identifying organic enrichment impacts. As detailed in Table 2-4, the %PTV score ranges from 0 to 100, where:

- 0 indicates no organic pollution
- 100 indicates definite and severe organic pollution.

SPI is a widely used diatom index developed to assess general water quality, particularly in relation to nutrient enrichment and organic pollution. It integrates species-specific sensitivity values and ecological preferences to produce a continuous score reflecting the overall ecological status of a site. As detailed in Table 2-5, SPI scores range from 1 to 20, with:

- Higher scores indicating better water quality and lower levels of pollution,
- Lower scores suggesting degraded conditions and higher pollution levels.

In addition, the same statistical analysis as described in Section 2.2.2.2 was undertaken, and a Wilcoxon signed-rank test was conducted for %PTV and SPI.

Table 2-4 Interpretation of the percentage Pollution Tolerant Values scores (adapted from Kelly, 1998)

%PTV	Interpretation	Descriptor
< 20	Site free from organic pollution	Good
20 to < 40	There is some evidence of organic pollution	Moderate
40 to 60	Organic pollution likely to contribute significantly to eutrophication	Poor
> 60	Site is heavily contaminated with organic pollution	Bad

Table 2-5 Interpretation of the Specific Pollution Sensitivity Index (Adapted from Eloranta & Soininen, 2002; Harding & Taylor, 2011)

Index Score (SPI Score)	Ecological Category	Descriptor
>17.3	A	High Quality
16.8-17.2	A/B	
13.3-16.7	B	Good Quality
12.9-13.2	B/C	
9.2-12.8	C	Moderate Quality
8.9-9.1	C/D	

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5.3-8.8	D	Poor Quality
4.8-5.2	D/E	
<4.8	E	Bad quality

2.3.3 Periphyton (RAM-1)

At each site during the sampling events the Rapid Assessment Method 1 (RAM-1), as detailed in Biggs & Killroy (2000) was used to monitor periphyton in the stream sampling locations.

The mean % periphyton cover was estimated for each site and compared against the New Zealand Periphyton Guideline (MfE, 2000) aesthetic impact guideline for identifying nuisance filamentous periphyton ($\geq 30\%$). Note that this guideline is for aesthetic impact, rather than ecological impact.

2.4 Functional Indicators

2.4.1 Live algal biomass and accrual

2.4.1.1 Data collection

During the March 2025 sampling event artificial substrates (unglazed clay tiles) were left in situ for four weeks (28 days) at each site. Tiles were retrieved and immediately scrubbed in a clean tray to dislodge periphyton. The sample was then transferred into an unpreserved sample bottle and sent to Hill Labs (IANZ accredited) for the following analyses:

- Chlorophyll *a* mg/m²; and
- Ash Free Dry Weight (AFDW) mg/m².

2.4.1.2 Data analysis

Chlorophyll *a* and AFDW were used as a proxy of periphyton biomass. Metrics reported include biomass accrual rate to provide a direct measure of periphyton accumulation and net accrual rate to reflect how quickly biomass is accumulating in response to environmental conditions. The net accrual of biomass was expressed as a rate per day, following the below equation:

$$B = a \exp(kT)$$

Whereby, *B* is the measure of biomass (expressed as Chlorophyll *a* and AFDW), *a* is the initial biomass concentration (Biggs, 1988; Biggs & Kilroy, 2000). *K* values exceeding 0.35 day⁻¹ are considered high and *K* values below 0.10 day⁻¹ are considered low.

2.4.2 Periphyton Quantitative Method 1b (QM-1b)

During the March 2025 sampling event, many of the artificial substrates were dislodged and required resetting. This was largely due to weather events dislodging the crates, which were subsequently caught in debris or vegetation along the stream margins. As a result, the artificial substrates did not provide a practicable method for monitoring particularly for winter monitoring where frequent flood events are probable. For the August 2025 sampling event, the QM-1b methodology was therefore adopted for periphyton sampling. Under this method, samples were collected by brushing periphyton from a defined area (100 × 300 mm) of naturally occurring hard substrates such as rocks and cobbles within the stream. Although this sampling could not be used for the calculation accrual rates of periphyton, it was used to complement the RAM-1 winter results described in Section 2.3.3.

2.4.3 Cotton tensile strength

2.4.3.1 Data collection

At each site during the sampling events, five replicate unbleached cotton strips were anchored to the streambed and left immersed in water for two weeks. The cotton strips were then preserved in ethanol and sent to an external suitably qualified technician for analysis.

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2.4.3.2 Data analysis

The analysis was completed by an external suitably qualified technician using a tensiometer to measure cotton tensile strength. The analysis was undertaken in r Studio for statistical comparison of tensile strength (measured as % strength loss) at each site and was used as a proxy for microbial breakdown.

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2.5 Spearman correlation analysis between physical/physicochemical parameters and ecological indicators

Spearman rank correlation was undertaken between each physical and physicochemical parameters (as described in Section 2.2) and biological indicators and functional indicators (as described in Section 2.3 and 0, respectively). Spearman's method was chosen as it does not assume normally distributed data, is robust to non-linear but monotonic relationships, and is appropriate for datasets with small sample sizes.

For each pairwise combination of physical/physicochemical parameters and indicators, Spearman's rho (correlation coefficients) and associated p-value were calculated. A threshold of $p < 0.05$ with corresponding correlation coefficients of $> +/-0.60$ to represent greater than moderate relationships between parameters that were significant. These correlations are presented in Appendix G.

Correlation coefficients were visualised using a heatmap to enable interpretation and identify potentially influential variables. The heatmap displays correlation strength on a colour gradient from -1 (strong negative relationship) to $+1$ (strong positive relationship), includes asterisks to mark statistically significant correlations ($p < 0.05$), and groups physical and physicochemical parameters on the y-axis, and biological and functional indicators along the x-axis for comparison.

2.6 Analysis of continuous monitoring data

Water quality data for Oakley Creek, Warkworth, Meola Creek, and Taipari Strand was provided by Watercare, covering the period from 21 March 2025 to 31 December 2025. The dataset included the following parameters:

- Temperature (°C);
- Conductivity (µS/cm);
- DO (%);
- DO (mg/L);
- Turbidity (FNU);
- Nitrate (ppb);
- pH;
- Tryptophan (ppb);
- Optical Brightness (ppb);
- Sewer depth (mm);
- Rainfall (mm);
- Overflow limit (mm);
- Season (Summer/Spring/Autumn/Winter); and

The dataset was cleaned to address missing values and outliers, to ensure data quality. To assess the impact of overflows on water quality, boxplots were generated for each parameter, comparing conditions during overflow and non-overflow periods. Statistical comparisons were conducted using the Wilcoxon signed-rank test.

In addition, time series visualisations were created for each parameter to explore temporal trends. Seasonal differences in overflow frequency were also evaluated using pairwise Fisher's exact tests, with p -values adjusted for multiple comparisons in Excel. A separate report detailing the results in provided in Appendix E.

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3 Results

Sections 3.1 to 3.2 summarises the results for the Stage 1 TMP Pilot Study completed in March and August 2025.

Laboratory results are included in Appendix F, detailed tabulated results in Appendix G, and Wilcoxon signed-rank test results is included in Appendix H.

3.1 Physical and physicochemical parameters

3.1.1 Rapid Habitat Assessment

Combined RHA results from summer and winter sampling are presented in Figure 3-1.

The majority of the sampling sites have a 'Fair' habitat value, while three of the sites had a 'Good' habitat value score for winter and summer (EOP281_US; EOP281_DS; EOP850_US). The RHA scores marginally decreased from summer to winter, and upstream sites generally had higher scores than downstream sites (except for winter RHA results for EOP588_US and EOP281_US).

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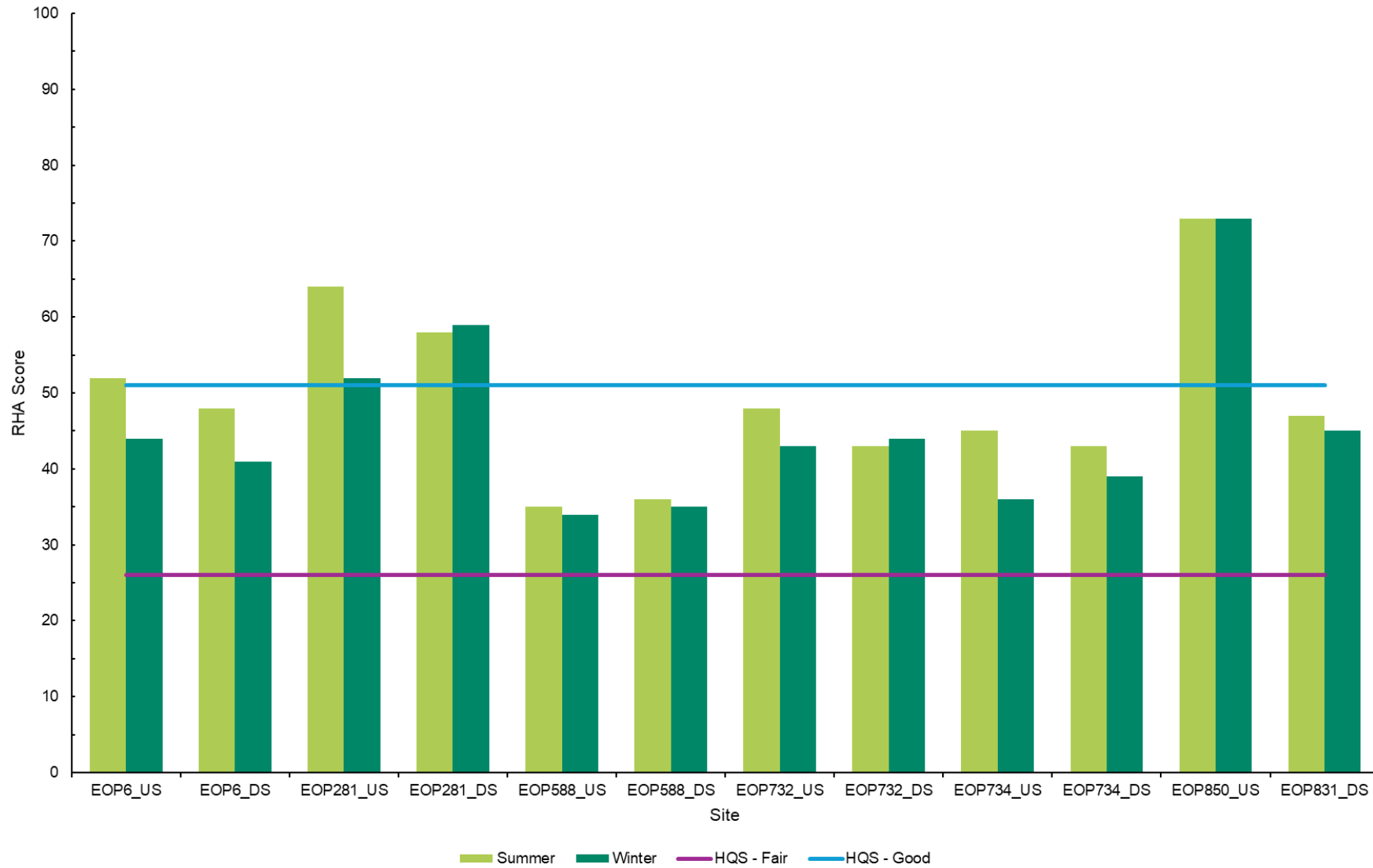


Figure 3-1 RHA results and corresponding habitat quality scores (HQS) for summer and winter sampling

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3.1.2 *In-situ* water quality

In-situ water quality parameters were assessed across upstream and downstream sites during both summer and winter sampling events, with comparisons made against relevant guideline values and national standards (Table 3-1).

3.1.2.1 *Water temperature*

Water temperature was similar between upstream and downstream sites during both summer and winter sampling events. Generally, higher water temperatures were recorded during the summer sampling. On a site scale, marginal differences were observed upstream and downstream at EOP6 (17.1 °C upstream and 20.2 °C downstream; summer monitoring) and EOP281 (13.0 °C upstream and 11.6 °C downstream; winter monitoring). However, no statistically significant results were observed between upstream and downstream or between seasons.

3.1.2.2 *Dissolved oxygen*

Dissolved oxygen (% and mg/L) was higher or marginally lower at all downstream sites compared to the associated upstream sites during both sampling events. DO (%) was below the ANZG 80th percentile for all sites during summer sampling, and below the 80th percentile at EOP732, EOP734, and EOP850/831 during winter sampling. Most sites were within NPS-FM Attribute Band D (national bottom line) and Band C for DO (mg/L) during the summer sampling, except for EOP6, EOP732_DS and EOP831_DS. During the winter sampling, all sites were within NPS-FM Attribute Band A for DO (mg/L), except for both EOP732 sites and EOP734_US which were in Attribute Band B. No statistically significant results were observed between upstream and downstream site. However, when grouped by season, statistical differences were observed in summer between upstream and downstream ($p > 0.05$).

3.1.2.3 *Conductivity*

Across all sites and seasons, conductivity ($\mu\text{S}/\text{cm}$) exceeded ANZG 80th percentile. In summer, higher conductivity downstream was only evident at EOP588. However, in winter, marginal increases in conductivity were observed at EOP281, EOP588, EOP732, and EOP734. Downstream sites of EOP6 and EOP588 recorded the lowest and highest conductivity, respectively, during both summer and winter sampling. During summer, results ranged from 159 $\mu\text{S}/\text{cm}$ (EOP6_DS) to 463 $\mu\text{S}/\text{cm}$ (EOP588_DS), and during winter, results ranged from 125 $\mu\text{S}/\text{cm}$ (EOP6_DS) to 275 $\mu\text{S}/\text{cm}$ (EOP588_DS). However, no statistically significant results were observed between upstream and downstream or between seasons.

3.1.2.4 *pH*

pH was below the ANZG 80th percentile for all sites during both summer and winter sampling. During summer, pH results ranged from 6.67 (EOP732_US) to 7.34 (EOP281_US), and during winter, pH results ranged from 6.67 (EOP6_DS) to 7.37 (EOP831_DS). pH was higher at the downstream site at all sites during at least one sampling period:

- Downstream sites EOP6, EOP588, EOP732, EOP734, and EOP831 had higher pH than their associated upstream sites in summer.
- Downstream sites EOP281, EOP588, and EOP831 had higher pH than their associated upstream sites in winter.

No statistically significant results were observed between upstream and downstream or between seasons.

3.1.2.5 *Turbidity*

Turbidity was above the ANZG 80th percentile for the EOP6_DS and both sites at EOP588 in summer and the majority of the EOP sites in winter (except for the upstream sites at EOP6 and EOP281, and both sites at EOP732). Turbidity results ranged from 0.25 NTU (EOP732_US) to 11.15 NTU (EOP588_US) in summer and 0.88 NTU (EOP732_US) to 20.71 NTU (EOP588_DS) in winter. However, no statistically significant results were observed between upstream and downstream or between seasons.

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3.1.2.6 Water clarity

Most sites were within NPS-FM Attribute Band A and B for water clarity in summer and results ranged from 45 cm (EOP6_DS) to > 120 cm (EOP732_US, EOP734_US, and EOP850_US). EOP6 was within NPS-FM Attribute Band D (national bottom line) for both sites in summer. Winter water clarity results ranged from 62 cm (EOP588_US) to >120 cm (EOP281_US, both sites at EOP732 and EOP734). The majority of sites were within Band A, however several sites (EOP6_DS, EOP588_US, EOP734_DS, and EOP850_US) fell within Band C.

Water clarity was lower at the downstream site at all sites during at least one sampling period:

- During summer, lower water clarity was recorded at downstream sites of EOP6, EOP588, EOP732, EOP734, and EOP831.
- During winter, lower water clarity was recorded at downstream sites of EOP6, EOP281, and EOP734.

However, no statistically significant results were observed between upstream and downstream or between seasons.

3.1.2.7 In-situ statistical analysis

Wilcoxon signed-rank test results indicated a significant difference between DO (mg/L) and upstream and downstream locations in summer. All other *in situ* water quality parameters were not significant (Appendix H). Spearman rank correlations indicated moderate negative correlations between water temperature and DO (% and mg/L) ($r = -0.55, -0.66$, respectively) and water temperature and turbidity ($r = -0.66$). All other significant relationships were considered weak (below the threshold of $r = +/- 0.60$) or were not considered meaningful (e.g. strong positive correlations with specific conductivity and conductivity). Spearman rank correlations with in-situ water quality and biological parameters are provided in Section 3.3.

DRAFT**Table 3-1 *In situ* water quality results for summer and winter monitoring events**

Site	Temperature (°C)		DO (%)		DO (mg/L)		Conductivity (µS/cm)		pH		Turbidity (NTU)		Water Clarity	
	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
EOP6_US*	17.1	12.4	82.1	97.4	7.92	10.40	164	127	7.24	6.88	2.97	3.56	48	105
EOP6_DS*	20.2	12.7	93.4	98.0	8.46	10.38	159	125	7.31	6.67	5.26	9.30	45	72
EOP281_US^	17.5	13.0	20.5	89.6	1.95	9.35	326	245	7.34	7.34	4.14	4.09	65	> 120
EOP281_DS^	17.6	11.6	22.5	93.5	2.15	9.76	312	253	7.16	7.35	2.15	5.90	88	113
EOP588_US^	16.0	10.2	22.0	83.4	2.12	9.34	420	273	6.93	7.09	11.15	9.93	85	62
EOP588_DS^	16.6	10.4	25.2	86.2	2.43	9.63	463	275	7.16	7.30	5.72	20.71	70	130
EOP732_US*	17.4	16.3	57.2	75.2	4.48	7.38	211	185	6.67	7.25	0.25	0.88	> 120	>120
EOP732_DS*	17.4	16.6	52.6	77.3	5.04	7.45	211	186	6.74	7.25	0.82	2.52	108	>120
EOP734_US*	18.3	16.2	51.1	74.9	4.87	7.35	195	170	7.15	7.13	4.51	8.82	> 120	>120
EOP734_DS*	18.3	16.2	51.9	79.6	4.85	7.78	194	172	7.21	6.84	4.19	15.30	120	76
EOP850_US*	17.1	10.4	34.4	87.4	3.33	9.75	252	191	7.05	7.21	4.89	9.15	> 120	77
EOP831_DS*	17.6	11.2	62.4	103.9	5.96	11.42	208	189	7.20	7.37	2.56	7.51	118	99
*ANZG 80th percentile (Warm Wet Low Elevation)	-	-	103.0	103.0	-	-	115	115	7.70	7.70	5.20	5.20	-	-
^ANZG 80th percentile (Warm Dry Low Elevation)	-	-	100.0	100.0	-	-	86	86	7.80	7.80	4.20	4.20	-	-

Notes: NPS-FM Attribute Band A = highlighted green, Band B = yellow, Band C = orange, Band D (national bottom line) = red. Results that are above ANZG (2018) default guideline value (80th percentile) = red text.

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3.1.3 Continuous water quality

Continuous water quality results measured with the AquaWatch 'WaQA' show similar results to *in situ* monitoring, with some variation in parameters (see Table 3-2).

3.1.3.1 Mean Water Temperature

Mean water temperatures were below 20°C at all upstream and downstream sites. Mean water temperatures were variable from upstream and downstream in both seasons, albeit more distinct in summer. In summer, mean water temperatures were marginally cooler downstream at EOP281, EOP588 and EOP734. Notably, EOP281 showed a 1°C differential from upstream to downstream in both seasons, however this was likely attributed to the variability in site conditions from upstream and downstream. EOP734 showed a 0.73°C differential from upstream to downstream in summer, however this was less apparent in winter at 0.23°C difference. EOP6 was the only site to show marginally warmer temperatures downstream (0.66°C differential in summer), however this was less apparent in winter. No statistically significant results were observed between upstream and downstream sites or when grouped by season.

3.1.3.2 Mean Dissolved Oxygen

Mean DO (mg/L) ranged between 10.7 mg/L at EOP850/831 and 4.1 mg/L at EOP734 in summer. In summer, two sites (EOP734_US and EOP850/831) were within NPS-FM attribute Band C and four sites (EOP281_DS; EOP588 (both sites); EOP734_DS) were within NPS-FM attribute band B. Generally, DO concentrations were higher downstream when compared to the respective upstream site. These trends were evidenced across season, albeit less distinct in winter. No statistically significant results were observed between upstream and downstream or when grouped by season.

3.1.3.3 Mean Turbidity

All mean turbidity (NTU) values exceeded the ANZG 80th percentile during both monitoring seasons. Generally, all sites showed elevated turbidity upstream. Notable differences between upstream and downstream were observed at EOP734, whereby upstream sites were 369.1 NTU greater in summer and 398.2 NTU greater in winter. However, no statistically significant results were observed between upstream and downstream or when grouped by season.

3.1.3.4 Mean pH

Mean pH was circumneutral across all sites and seasons. The largest change in pH between upstream and downstream was observed at EOP850/851, whereby pH increased from 6.65 upstream to 7.22 downstream. However, these results are within appropriate natural stream ranges for pH. Additionally, no statistically significant results were observed between upstream and downstream or when grouped by season.

3.1.3.5 Mean conductivity

All sites were above the 80th ANZG default guideline for both seasons. Variation in mean conductivity was evident across sites and from upstream and downstream. In summer, conductivity was greater downstream at EOP281, EOP6 (both seasons), EOP734. Conversely, winter results showed greater conductivity downstream at EOP588 and EOP850/831, highlighting the variability in the data upstream and downstream. This data is supported by no statistically significant results between upstream and downstream or when grouped by season.

3.1.4 Continuous water quality statistical analysis

Wilcoxon signed-rank test results indicated no significant differences from upstream to downstream for mean continuous water quality results (Appendix H). Spearman rank correlations indicated strong correlations with corresponding variables for *in-situ* water quality (DO (mg/L) $r = 0.85$ and temperature°C $r = 0.94$). Statistically significant correlations were observed with mean pH and mean conductivity ($r = 0.72$). All other significant relationships were considered weak (below the threshold of $r = +/- 0.60$). Spearman rank correlations with continuous water quality and biological parameters are provided in Section 3.3.

DRAFT**Table 3-2 Mean values of continuous water quality variables for AquaWatch 'WaQA' sensors (Summer = March - April 2025, Winter = June - August 2025)**

Site	DO (mg/L)		Turbidity (NTU)		Temperature (°C)		pH		Conductivity (µS/cm)	
	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	Winter
EOP6_US*	7.8	9.6	25.8	78.9	18.5	14.6	6.83	6.71	161	158
EOP6_DS*	8.3	9.6	165.3	166.2	19.1	14.8	6.90	6.67	163	160
EOP281_US^	7.7	8.5	64.6	122.6	19.0	15.4	7.14	7.43	292	334
EOP281_DS^	5.4	8.1	19.7	67.6	18.1	14.6	7.13	7.60	323	314
EOP588_US^	6.0	8.7	115.7	117.7	18.0	13.5	7.42	7.36	242	264
EOP588_DS^	7.0	8.7	34.3	89.6	17.8	13.7	7.10	7.33	221	332
EOP734_US*	4.1	5.4	400.9	450.2	18.8	16.4	6.94	6.70	162	198
EOP734_DS*	5.4	6.3	31.8	52.0	18.1	16.2	6.75	6.63	170	185
EOP850_US*	4.4	8.4	11.7	110.1	18.0	13.6	6.73	6.65	213	221
EOP831_DS*	7.7	10.7	13.6	31.2	18.4	13.5	7.19	7.22	195	228
*ANZG 80 th percentile (Warm Wet Low Elevation)	-	-	5.20	5.20	-	-	7.70	7.70	115	115
^ANZG 80 th percentile (Warm Dry Low Elevation)	-	-	4.20	4.20	-	-	7.80	7.80	86	86

Notes: NPS-FM Attribute Band A = highlighted green, Band B = yellow, Band C = orange, Band D (national bottom line) = red. Results that are above ANZG (2018) default guideline value (80th percentile) = red text. '-' Denotes no available threshold.

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3.1.5 Water quality laboratory analysis

Results of water quality samples are presented below (see Table 3-3). Full water quality laboratory reports are included in Appendix F.

3.1.5.1 Total suspended solids

Total Suspended Solids (TSS) showed variation across seasons. Sites ranged from below laboratory limit of reporting (LOR) to 54 mg/L (EOP732_DS in summer). Notably, EOP732 showed a distinct increase in TSS from 33 mg/L (upstream) and 54 mg/L (downstream) in summer, however was below laboratory limit of recording (LOR) in Winter. EOP6, EOP732, EOP734 and EOP588 all showed elevated TSS downstream in comparison to the respective upstream site. In support, statistically significant differences were found between upstream and downstream ($p = 0.03$). However, when grouping between seasons and location, statistically significant results were only evident in summer ($p = 0.04$).

3.1.5.2 Total Phosphorus

Total Phosphorus (TP) was recorded over the ANZG 80th percentile at all sites except for EOP831_DS and EOP6_DS in Summer (10 out of 12 sites). Results ranged from 0.015 mg/L (EOP831_DS) to 0.930 mg/L (EOP281_US). Higher TP concentrations at the downstream site compared to the associated upstream site included EOP588 and EOP732. In winter, 7 out of 12 sites recorded over the ANZG 80th percentile with reductions in TP evident for EOP6_US and DS, EOP588_US and EOP850/831 US and DS. EOP732 remained consistently high across seasons when compared to other EOP sites. No statistically significant results were observed between upstream and downstream or on a seasonal scale.

3.1.5.3 Carbonaceous Biochemical Oxygen Demand

All Carbonaceous Biochemical Oxygen Demand (cBOD) results were below the LOR ($< 2 \text{ g O}_2\text{m}^{-2}$) with the exception of EOP281 (both upstream and downstream in summer) and EOP281_US in winter. These sites showed $> 2 \text{ g O}_2\text{m}^{-2}$ cBOD results indicative of some organic pollution. No statistically significant results were observed between upstream and downstream or on a seasonal scale.

3.1.5.4 Escherichia coli

Escherichia coli (MPN/100 mL) concentrations increased (or stayed consistently above the upper LOR ($> 2420 \text{ MPN/100 mL}$) during winter monitoring, with 10 out of 12 sites falling below the NPS-FM national bottom line (Attribute Band D), compared to 5 out of 12 below national bottom line during summer. EOP850/831 was the only site that had reduced levels of *Escherichia coli* from summer to winter (EOP850_US improved from 276 – 219 MPN/100 mL, EOP831_DS improved from 727 – 365 MPN/100 mL). Higher *E. coli* results at the downstream site compared to the associated upstream site included EOP588, EOP732, and EOP831 in summer and EOP734 in winter. No statistically significant results were observed between upstream and downstream or on a seasonal scale.

3.1.5.5 Total Ammoniacal-N

Total Ammoniacal-N results were recorded within NPS-FM Band D at EOP281_US, and Band C at EOP281_DS, and EOP734_US in summer. Comparatively in winter, five sites were within NPS-FM Band D (EOP281_US, EOP732 and EOP 734) and two sites within Attribute Band C. All Total Ammoniacal-N (mg/L) were greater upstream in summer, conversely to winter, where all Total Ammoniacal-N (mg/L) were marginally greater downstream. In support, statistically significant results were observed from upstream to downstream in summer ($p = 0.04$).

3.1.5.6 Nitrite-N and Nitrate-N

Nitrite-N results ranged from below LOR (EOP6_DS, EOP850_US, EOP831_DS) and 0.175 mg/L (EOP281_US). Higher nitrite at the downstream site compared to the associated upstream site was recorded at EOP588 (summer and winter), EOP732 (summer), EOP734 (summer), and EOP831 (summer). All Nitrate-N results from both summer and winter monitoring were recorded within NPS-FM Attribute Band A and Band B. Higher downstream levels were recorded at EOP281 and EOP588 (during summer and winter), and EOP734 (during summer). No statistically significant results were observed for Nitrite-N and Nitrate-N between upstream and downstream or on a seasonal scale.

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3.1.5.7 Dissolved reactive phosphorous

Dissolved reactive phosphorous (DRP) results were within NPS-FM Attribute Band D at EOP281 and EOP734 (both sites) and EOP732 (upstream). The EOP732 downstream site was within Band C, and all other sites were within Band A. Results ranged from 0.005 mg/L (EOP6_DS, EOP831_DS) and 0.760 mg/L (EOP281_US) and were lower downstream at all sites. EOP732 (summer) was the only site where the NPS-FM attribute band differed between upstream and downstream locations (Attribute Band D upstream, and Band C downstream). In support, statistically significant results were observed from upstream to downstream ($p = 0.02$), however these differences were only significant in summer ($p = 0.03$).

3.1.5.8 UV fluorescence

UV fluorescence was analysed as a marker for fluorescent whitening agents (FWA). In summer, several sites scored 2 compounds indicative of fluorescence $\frac{1}{4}$ to $\frac{3}{4}$ when compared to sewage. EOP6 was the only site where downstream showed higher concentrations of UV fluorescence. Conversely, EOP732 showed higher concentrations of UV fluorescence upstream. During winter monitoring, sites did not exceed 1, indicating virtually no fluorescent organic compounds.

3.1.5.9 Water quality statistical analysis

Wilcoxon signed-rank test results indicated TSS and DRP showed a significant difference between upstream and downstream ($p < 0.05$). However, when grouped by season, these differences were only evident in summer. All other water quality parameters were not significantly different between upstream and downstream (Appendix H). Significant negative correlations were observed between TP (mg/L) and DO (mg/L) ($r = -0.69$). While significant positive relationships were observed between TP and conductivity ($r = 0.60$), total Ammoniacal-N ($r = 0.70$) and Nitrite-N ($r = 0.66$). All other significant relationships were considered weak (below the threshold of $r = +/- 0.60$). Spearman rank correlations with water quality and biological parameters are provided in Section 3.3.

Table 3-3 Combined water quality results for the summer and winter monitoring period

Site	Total suspended solids (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biochemical Oxygen Demand (g O ₂ /m ³)	Escherichia coli (MPN/100 mL)	Total Ammoniacal-N (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Nitrate-N + Nitrite-N (mg/L)	Dissolved Reactive Phosphorus (mg/L)	FWA UV fluorescence
<i>Summer</i>										
EOP6_US*	< 3	0.032	< 2	461	0.011	0.005	0.139	0.144	0.007	0
EOP6_DS*	11	0.019	< 2	2	< 0.010	< 0.002	0.104	0.105	0.005	2
EOP281_US^	6	0.930	6	> 2420	5.200	0.175	0.520	0.700	0.760	2
EOP281_DS^	6	0.640	2	> 2420	0.440	0.153	2.300	2.400	0.540	2
EOP588_US^	6	0.177	< 2	387	0.320	0.002	0.003	0.006	0.014	2
EOP588_DS^	12	0.193	4	> 2420	0.160	0.009	0.105	0.114	0.008	2
EOP732_US*	33	0.082	< 2	276	0.021	0.004	2.800	2.800	0.059	2
EOP732_DS*	54	0.310	< 2	> 2420	< 0.010	0.014	2.300	2.400	0.037	0
EOP734_US*	< 3	0.165	< 2	345	0.560	0.111	0.600	0.710	0.082	2
EOP734_DS*	5	0.161	< 2	138	0.220	0.110	0.940	1.050	0.073	2
EOP850_US*	3	0.034	< 2	276	< 0.010	< 0.002	0.093	0.094	0.007	0

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Site	Total suspended solids (mg/L)	Total Phosphorus (mg/L)	Carbonaceous Biochemical Oxygen Demand (g O ₂ /m ³)	Escherichia coli (MPN/100 mL)	Total Ammonical-N (mg/L)	Nitrite-N (mg/L)	Nitrate-N (mg/L)	Nitrate-N + Nitrite-N (mg/L)	Dissolved Reactive Phosphorus (mg/L)	FWA UV fluorescence
EOP831_DS*	5	0.015	< 2	727	< 0.010	< 0.002	0.007	0.008	0.005	0
<i>Winter</i>										
EOP6_US*	< 3	0.011	< 2	2420	0.024	0.006	1.24	1.24	0.006	1
EOP6_DS*	3	0.012	< 2	1203	0.032	0.005	1.13	1.13	0.001	1
EOP281_US^	4	0.250	3	> 2420	0.220	0.072	0.88	0.95	0.156	1
EOP281_DS^	5	0.111	< 2	> 2420	0.139	0.041	0.9	0.94	0.080	1
EOP588_US^	10	0.021	< 2	> 2420	0.029	0.003	0.38	0.39	0.008	0
EOP588_DS^	34	0.037	< 2	> 2420	0.041	0.005	0.41	0.42	0.010	0
EOP732_US*	< 3	0.118	< 2	2420	0.22	0.058	2.7	2.7	0.082	1
EOP732_DS*	< 3	0.108	< 2	1414	0.173	0.057	2.7	2.7	0.077	0
EOP734_US*	7	0.036	< 2	687	0.073	0.009	2.4	2.4	0.039	0
EOP734_DS*	22	0.054	< 2	921	0.098	0.013	2.4	2.4	0.041	0
EOP850_US*	11	0.014	< 2	219	< 0.010	0.003	0.33	0.34	< 0.004	1
EOP831_DS*	4	0.011	< 2	365	0.019	0.006	0.32	0.33	0.004	0
ANZG 80 th percentile (Warm Wet Low Elevation)	-	0.024	-	-	-	-	-	-	-	-
^ANZG 80 th percentile (Warm Dry Low Elevation)	-	0.023	-	-	-	-	-	-	-	-

Notes: NPS-FM Attribute Band A = highlighted green, Band B = yellow, Band C = orange, Band D (national bottom line) = red. Results that are above ANZG (2018) default guideline value (80th percentile) = red text. Grey text = Below laboratory limit of recording. Underline = Above laboratory limit of recording. '-' Denotes no available threshold. FWA UV Fluorescence: 0 = no fluorescence, 1 = fluorescence just visible, 2 = fluorescence ¼ to ¾ compared to sewage, 3 = similar to sewage.

3.1.6 Sediment analyses

3.1.6.1 Heavy metals

Sediment quality results were compared against ANZG (2018b) default guideline values (DGVs) and GV-high for sediment quality (Table 3-4). All samples were below As, Cd, and Cr DGVs. Ni was recorded above DGVs at all sites except for EOP6_US (in summer) and EOP732_DS (in winter). During summer and winter, mercury was below LOR (< 0.10 mg/kg) at all sites, except EOP732 and EOP734). In summer, Zn was above DVG at EOP281 (both sites), EOP588_DS, EOP732_US and both sites at EOP734. Zn continued to be above DGV in winter at EOP732 and at the downstream site of EOP 281. All total recoverable boron results were below LOR (< 20 mg/kg) and have not been considered further. Full sediment laboratory reports are included in Appendix F.

3.1.6.2 Heavy metals statistical analysis

Wilcoxon signed-rank test results indicated no significant differences in water quality analysis parameters between upstream and downstream locations (Appendix H). However, seasonal differences

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between upstream and downstream indicated that statistically significant relationships were present with Cr ($p = 0.03$) in summer. Spearman rank correlations indicated that total recoverable Cd showed moderate correlations with total recoverable Zn ($r = 0.62$), total recoverable Hg ($r = 0.68$) and strong correlations with total recoverable Pb ($r = 0.81$). Additional strong correlations were evident with total recoverable Cr (mg/kg) and total recoverable Ni ($r = 0.74$). All other significant relationships were considered weak (below the threshold of $r = +/- 0.60$). Spearman rank correlations with continuous water quality and biological parameters are provided in Section 3.3.

Table 3-4 Laboratory results of summer and winter monitoring sediment analyses

Site	Summer								Winter							
	Total Recoverable (mg/kg)								Total Recoverable (mg/kg)							
	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Zinc	Arsenic	Cadmium	Chromium	Copper	Lead	Nickel	Mercury	Zinc
EOP6_US	7	0.11	16	23	35	15	< 0.10	170	7	0.18	19	52	40	52	< 0.10	155
EOP6_DS	7	0.12	15	21	35	25	< 0.10	187	7	< 0.10	19	29	39	43	< 0.10	161
EOP281_US	12	0.12	47	44	35	48	< 0.10	280	4	< 0.10	23	30	21	45	< 0.10	153
EOP281_DS	7	0.14	22	59	30	30	< 0.10	390	6	0.1	36	125	50	40	< 0.10	230
EOP588_US	12	0.12	40	41	66	114	< 0.10	168	8	0.11	37	41	37	111	< 0.10	122
EOP588_DS	17	0.20	33	94	88	63	< 0.10	280	8	0.11	34	46	47	99	< 0.10	134
EOP732_US	10	0.42	12	47	172	24	0.24	270	6	0.33	25	47	180	26	0.31	250
EOP732_DS	3	0.12	14	20	46	22	0.22	118	7	0.6	23	39	72	21	0.32	390
EOP734_US	10	0.36	60	68	86	85	0.16	330	3	0.18	30	44	70	67	0.11	290
EOP734_DS	3	0.18	35	41	84	75	0.15	310	6	0.24	34	35	109	80	< 0.10	240
EOP850/831_US	10	< 0.10	27	34	19.3	71	< 0.10	169	10	< 0.10	18	23	12.5	28	< 0.10	156
EOP850/831_DS	8	< 0.10	19	19	8.3	35	< 0.10	172	6	< 0.10	22	19	15	42	< 0.10	197
DGV	20	1.5	80	65	50	21	0.15	200	20	1.5	80	65	50	21	0.15	200
GV-High ³	70	10	370	270	220	52	1.0	410	70	10	370	270	220	52	1.0	410

Notes: Red text = above ANZG (2018b) Default Guideline Value (DGV). Bold and underlined = above ANZG (2018b) 'upper' guideline values (GV-High). Grey text = Below laboratory limit of reporting.

³ "Upper" Guideline Values (GV-high) provide an indication of concentrations at which there may already be toxicity-related adverse effects.

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3.1.6.3 Sediment grain size

Sediment at the sample sites was predominantly gravel, followed by very coarse sand, medium sand, and coarse sand. Generally, gravel remained the most abundant grain size, followed by very coarse sand. Summer samples at sites EOP6, EOP732 and EOP734 had a more varied grain size distribution in comparison with winter samples more homogenous (Figure 3-2, Figure 3-3). However, seasonal differences in grain size composition were evident at EOP732, where sediment transitioned from fine sand to silt and clay dominant in winter. In addition, EOP734 showed transitions from medium and coarse sand in summer to primarily gravel downstream in winter. However, no significant differences between upstream and downstream and between seasons were recorded.

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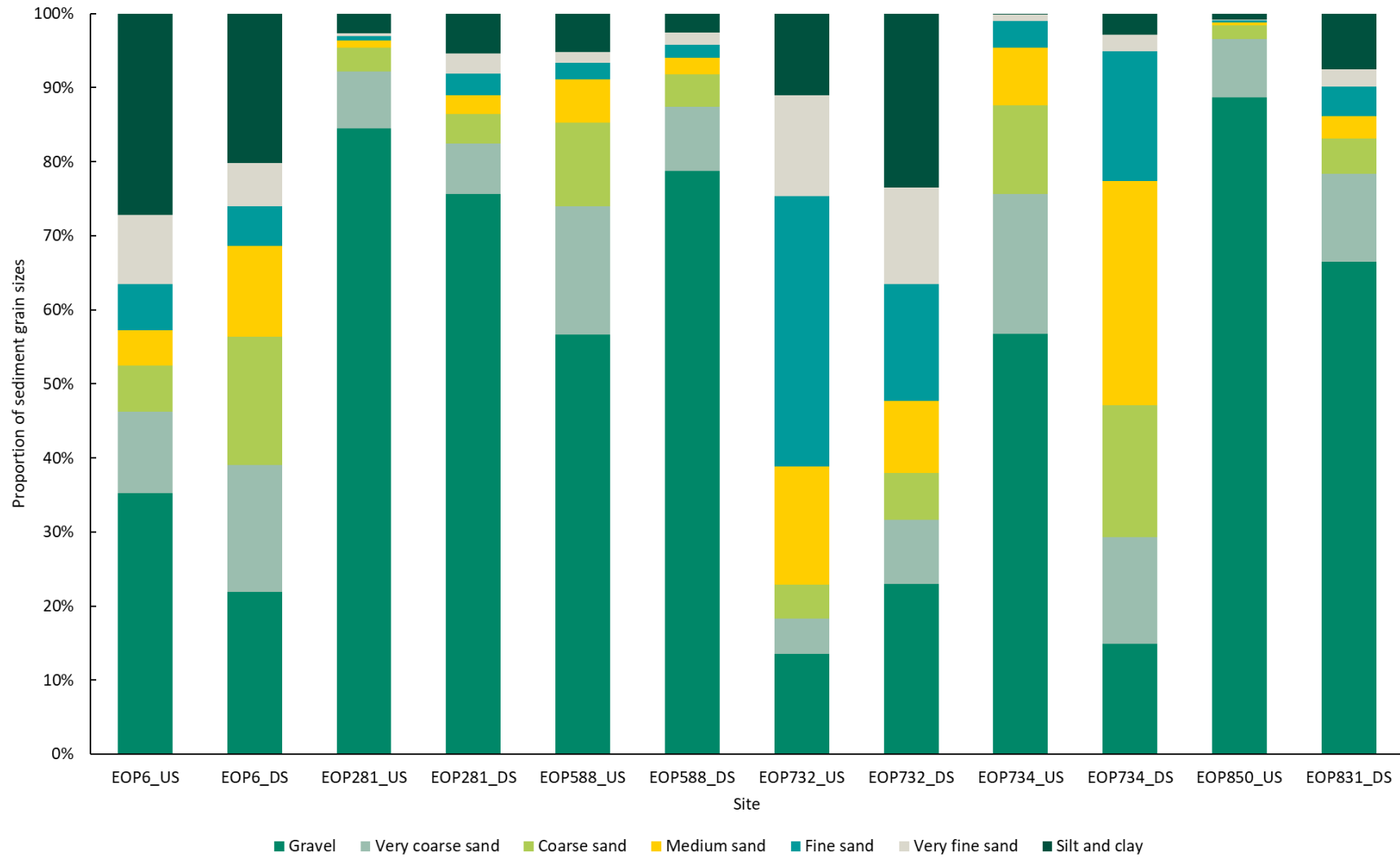


Figure 3-2 Grain size analysis of streambed sediments at each site during summer sampling

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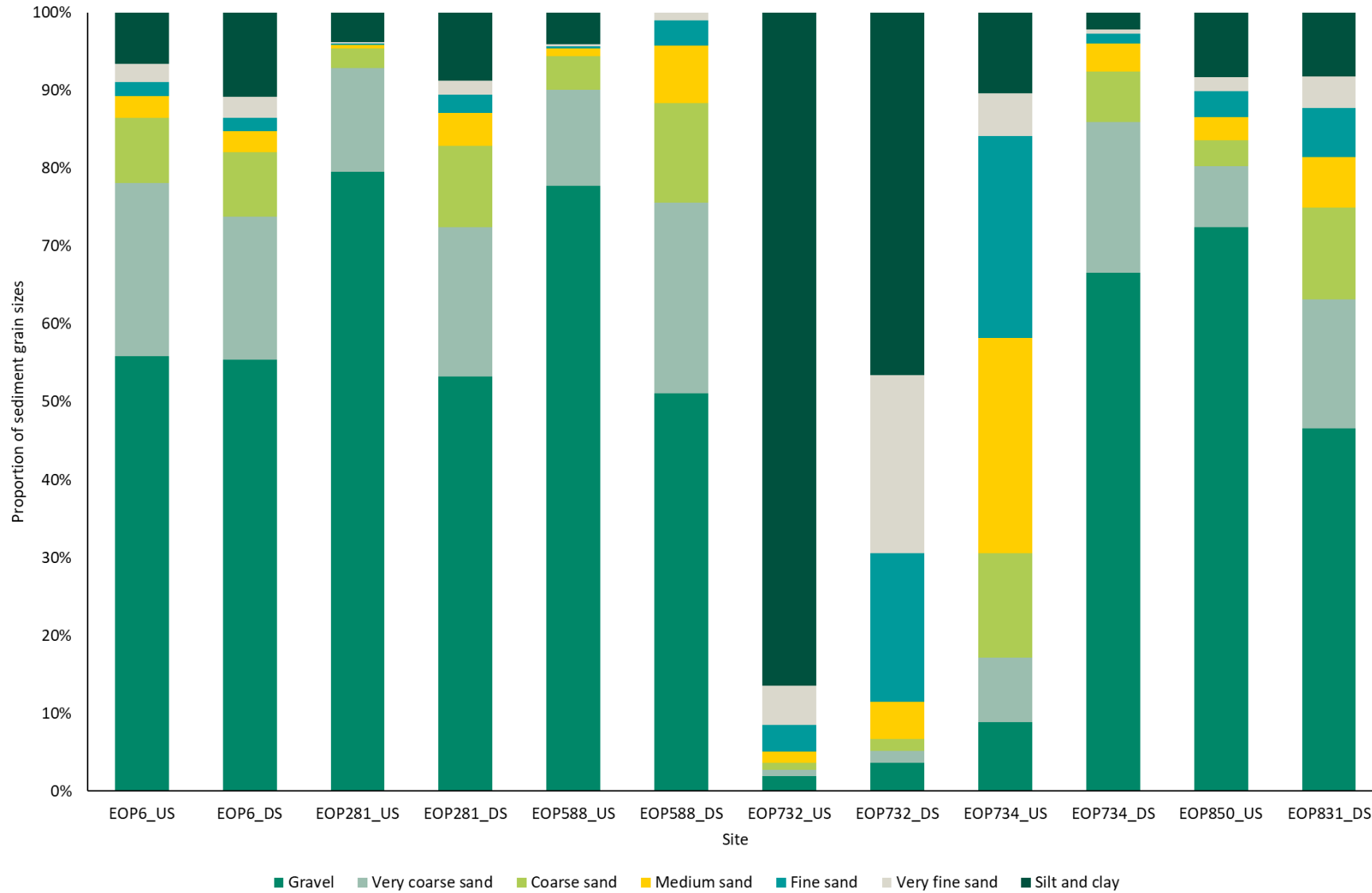


Figure 3-3 Grain size analysis of streambed sediments at each site during winter sampling

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3.1.7 Biological Indicators

3.1.7.1 Diatom indices

In summer, a total of 79 diatom taxa were recorded at the 12 sampled EOP locations, of which 68 were identifiable to species or variety level. Winter sampling identified 91 taxa, 69 of which were identified to species or variety level. Full diatom results are available in Appendix C.

Diatom assemblages in summer reflected ecological water quality from 'High quality' at EOP850/831 (downstream) to 'Poor quality' at EOP281 (upstream and downstream), consistent with fresh-brackish, circumneutral-alkaline, mesotrophic and eutrophic conditions. Diatom assemblages in winter, generally improved with all sites representing ecological water quality of 'Moderate or 'Good' (Table 3-5).

Supporting %PTV, showed EOP281 (upstream and downstream) exhibited heavily contaminated waters and poor SPI class in summer. All other sites show moderate to low levels of organic pollution. EOP281 was the only monitoring location to record a 'poor' SPI interpretation and a 'heavily contaminated' %PTV interpretation (during summer monitoring). During winter monitoring, EOP281 water quality improved from heavily contaminated to some organic pollution (upstream) and free from organic pollution (downstream).

Generally, there was no difference between upstream and downstream sites, except at EOP850/831 (during summer) and EOP281 and EOP734 (during winter) where the downstream site showed improvements in both %PTV and SPI class.

Wilcoxon signed-rank test results indicated no significant differences in diatom assemblages between upstream and downstream locations (Appendix H).

Table 3-5 Diatom index scores from summer and winter monitoring events (class shading as described in section 2.3.2)

Index score	%PTV	%PTV interpretation (as per Appendix C)	SPI	SPI interpretation (Ecological Category as per Appendix C)	SPI interpretation (Class as per Appendix C)
<i>Summer</i>					
EOP6_US	12	Free from organic pollution	15.9	B	Good
EOP6_DS	14	Free from organic pollution	15.1	B	Good
EOP281_US	78	Heavily contaminated	5.3	D	Poor
EOP281_DS	77	Heavily contaminated	7.6	D	Poor
EOP588_US	45	Significant organic pollution	9.1	C/D	Moderate
EOP588_DS	48	Significant organic pollution	11.9	C	Moderate
EOP732_US	16	Free from organic pollution	13.2	B/C	Good
EOP732_DS	2	Free from organic pollution	14.9	B	Good
EOP734_US	26	Some organic pollution	11	C	Moderate
EOP734_DS	15	Free from organic pollution	12	C	Moderate
EOP850_US	25	Some organic pollution	16.4	B	Good

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EOP831_DS	2	Free from organic pollution	16.8	A/B	High
<i>Winter</i>					
EOP6_US	5	Free from organic pollution	14.5	B	Good
EOP6_DS	4	Free from organic pollution	16.0	B	Good
EOP281_US	31	Some organic pollution	9.2	C	Moderate
EOP281_DS	17	Free from organic pollution	12.2	C	Moderate
EOP588_US	15	Free from organic pollution	13.9	B	Good
EOP588_DS	1	Free from organic pollution	13.1	B/C	Good
EOP732_US	52	Significant organic pollution	10.2	C	Moderate
EOP732_DS	40	Significant organic pollution	9.9	C	Moderate
EOP734_US	23	Some organic pollution	12.2	C	Moderate
EOP734_DS	16	Free from organic pollution	12.7	C	Moderate
EOP850/831_US	3	Free from organic pollution	13.7	B	Good
EOP850/831_DS	6	Free from organic pollution	14.4	B	Good

3.1.7.2 Macroinvertebrate indices

Detailed macroinvertebrate community results including MCI-sb/MCI, QMCI-sb/QMCI, number of taxa, number of individuals and %EPT taxa are presented in Appendix F. All MCI and QMCI values fall below nation bottom line (NPS-FM Attribute Band D) and are indicative of severe organic pollution (refer Figure 3-4 and Figure 3-5). A total of 30 taxa were recorded during the summer sampling with the highest number of taxa recorded at EOP281_DS ($n = 12$). 24 taxa were recorded during winter sampling, with the highest number of taxa also recorded at EOP281_DS ($n = 11$). The greatest number of taxa ($n = 12$) was recorded at EOP281_DS during summer monitoring, while the smallest number of taxa ($n = 5$) was recorded at both EOP6_DS and EOP281_US in winter. Overall, MCI/MCI-sb and QMCI/QMCI-sb scores reduced in winter with the exception of EOP850/831_US and EOP281_DS. Only EOP6_US (summer) and EOP732_DS (winter) recorded %EPT taxa scores above 0.0 (9.09 and 14.29, respectively) Table 3-6.

Dominant taxa across the sites includes the pollution tolerant Mollusc *Potamopyrgus* (Manaaki Whenua Landcare Research, 2025). EPT taxa including Caddisfly (*Oxyethira* and *Polypsectropus*) and Mayfly (*Deleatidium*) were only recorded at EOP732_DS (winter), EOP_732_US (summer) and EOP6_US (summer). All MCI and QMCI values fall below the national bottom line (MfE, 2024) and are indicative of severe organic pollution or nutrient enrichment (Figure 3-4 and Figure 3-5). The sites that showed the poorest ecological health include EOP281_US, EOP732_US, EOP732_DS, EOP850/831 (both sites) .

Table 3-6 Macroinvertebrate results for summer and winter monitoring periods

Site	Number of Taxa	Number of individuals	% EPT Taxa	MCI/MCI-sb	QMCI/QMCI-sb
<i>Summer</i>					

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Site	Number of Taxa	Number of individuals	% EPT Taxa	MCI/MCI-sb	QMCI/QMCI-sb
EOP6_US	11	632	9.09	48.91	2.27
EOP6_DS	11	1634	0	64.00	2.11
EOP281_US*	8	47	0	55.00*	2.74*
EOP281_DS*	12	517	0	60.00*	2.87*
EOP588_US	9	204	0	49.78	2.53
EOP588_DS	9	802	0	68.44	2.28
EOP732_US	9	1612	0	49.71	2.11
EOP732_DS	6	3301	0	22.00	1.10
EOP734_US*	7	3211	0	68.57*	4.00*
EOP734_DS*	10	3240	0	62.00*	3.61*
EOP850_US*	6	407	0	70.00*	3.88*
EOP831_DS	6	1065	0	44.67	2.23
<i>Winter</i>					
EOP6_US	6	104	0	45.33	2.24
EOP6_DS	5	211	0	58.40	1.87
EOP281_US*	5	51	0	68.80*	3.03*
EOP281_DS*	11	173	0	71.27*	2.41*
EOP588_US	8	270	0	57.75	4.23
EOP588_DS	9	179	0	69.33	2.42
EOP732_US	8	3525	0	30.57	1.91
EOP732_DS	7	3331	14.29	61.00	3.42
EOP734_US*	10	270	0	41.00*	2.28*
EOP734_DS*	10	871	0	54.40*	2.63*
EOP850/831_US*	9	1066	0	38.44*	2.07*
EOP850/831_DS	8	1633	12.5	43.25	2.11

Note: * = hard bottom stream. Red = Results below NPS-FM Attribute Band D (national bottom line).

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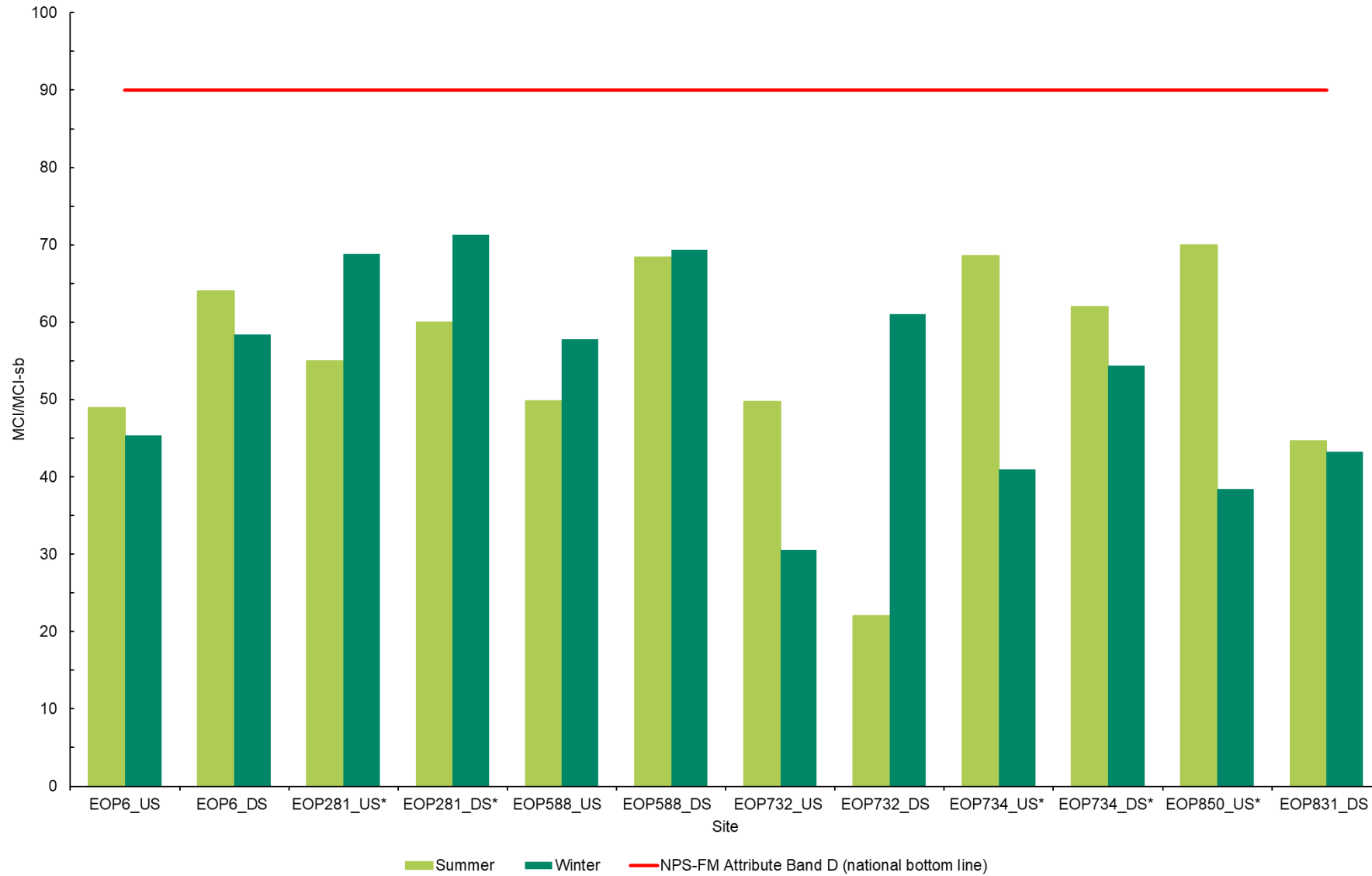


Figure 3-4 MCI/MCI-sb scores for summer and winter sampling events (* = hard bottom streams)

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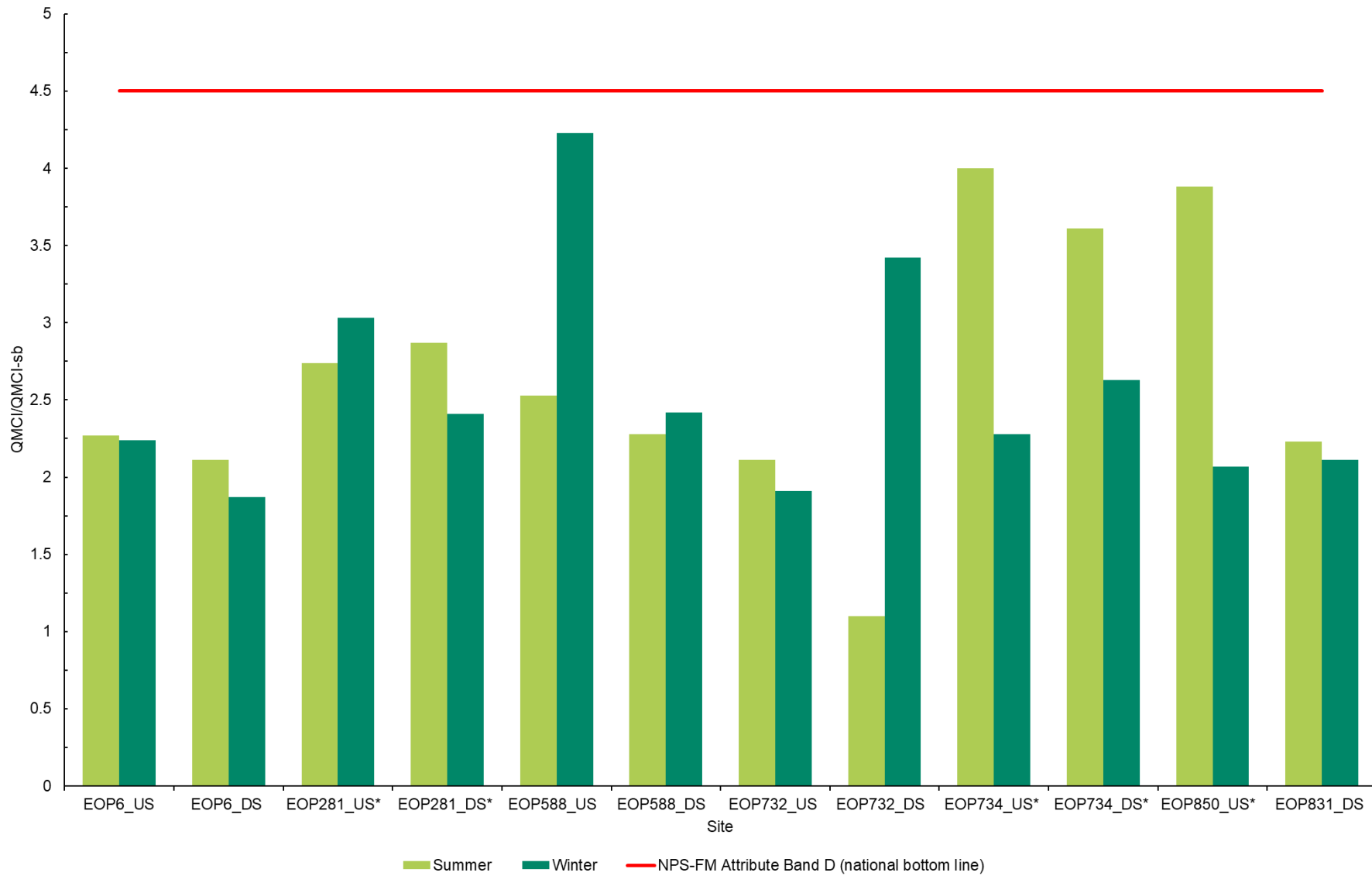


Figure 3-5 QMCI/QMCI-sb scores for summer and winter sampling events (* = hard bottom streams)

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The non-metric multidimensional scaling (NMDS) plot (Figure 3-6) showed no clear grouping of macroinvertebrate assemblages per monitoring location and/or monitoring season. Wilcoxon signed-rank test results revealed no significant differences between upstream and downstream macroinvertebrate indices (Appendix H).

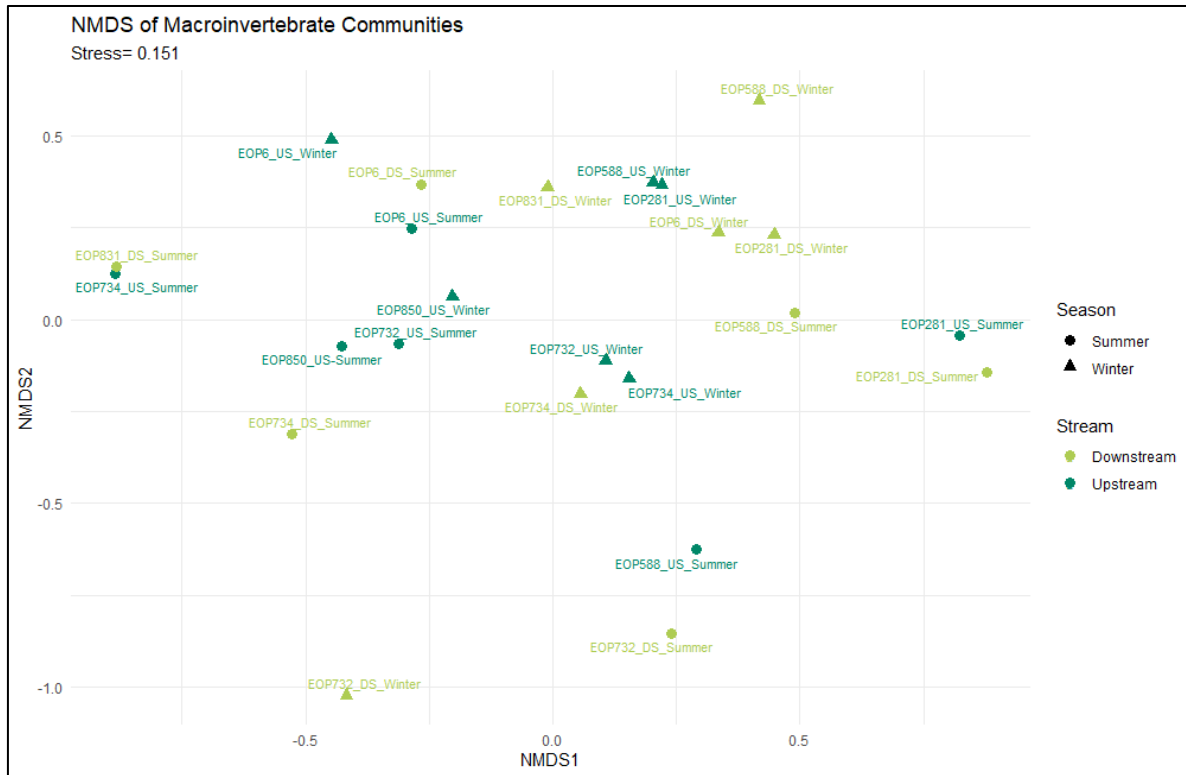


Figure 3-6 Non-metric multidimensional scaling plot of macroinvertebrate communities at upstream and downstream sites during summer and winter sampling. Upstream and downstream location denoted by colour, summer and winter monitoring season denoted by shape.

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3.1.8 Periphyton (RAM-1)

During summer, there was higher cover of periphyton at all sites compared to winter, and all sites were above the aesthetic impact guideline for identifying nuisance filamentous periphyton (MfE, 2000) (Figure 3-7). Periphyton cover (%) was higher downstream at all sites during at least one sampling period.

During winter, only two sites were above the aesthetic impact guideline. However, it is noted that the guideline is for aesthetic impact, rather than ecological impact. During summer, periphyton cover was higher at the downstream site at EOP281, EOP732, and EOP831/850. During winter, periphyton cover was higher at the downstream site at EOP6, EOP281, EOP588, EOP732, and EOP734.

Wilcoxon signed-rank test results indicated no significant difference between upstream and downstream or between seasons (Appendix H).

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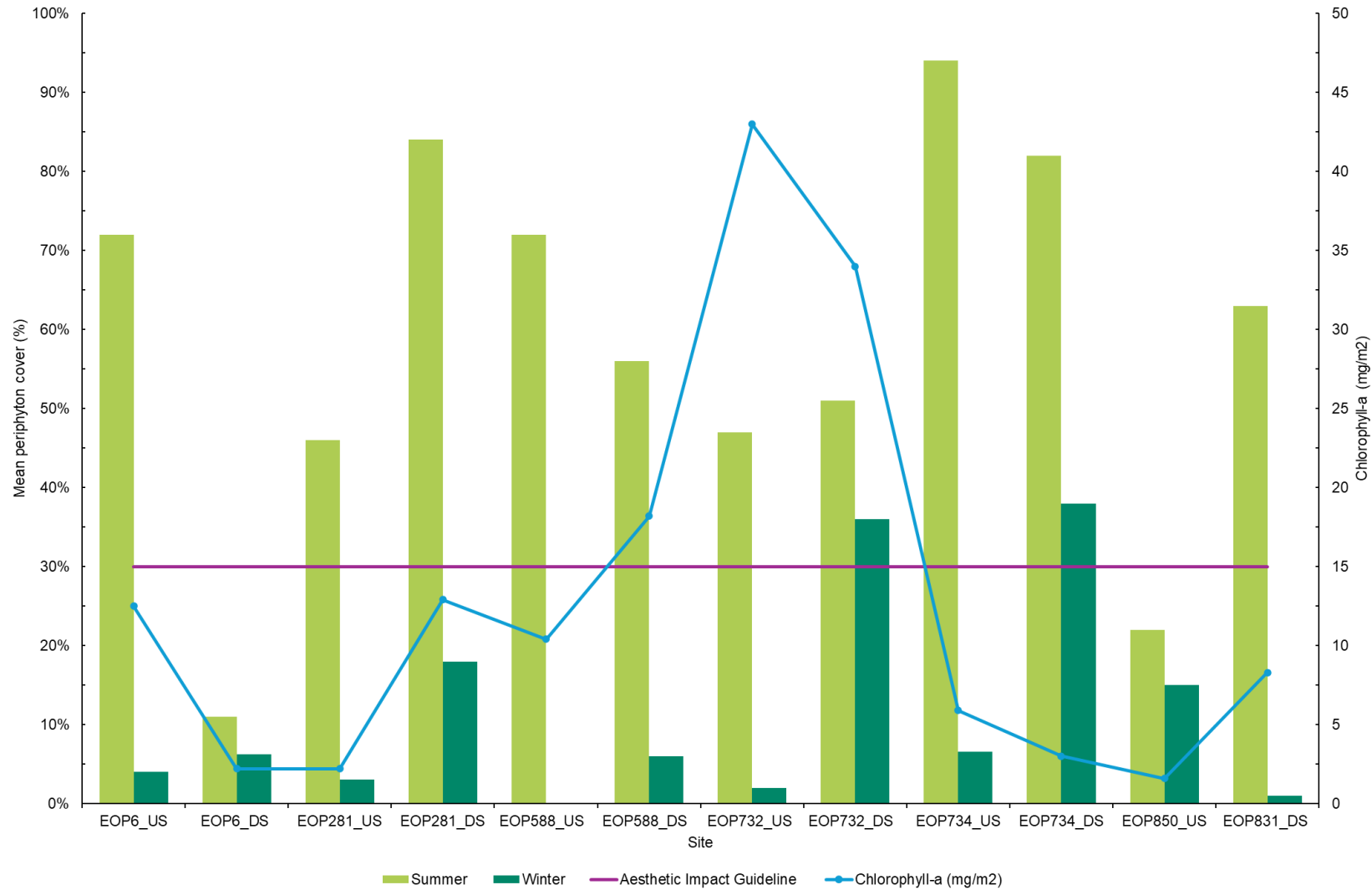


Figure 3-7 Mean periphyton cover (%) (RAM-1) for summer and winter sampling events and aesthetic impact guideline for nuisance filamentous algae (MfE, 2000).

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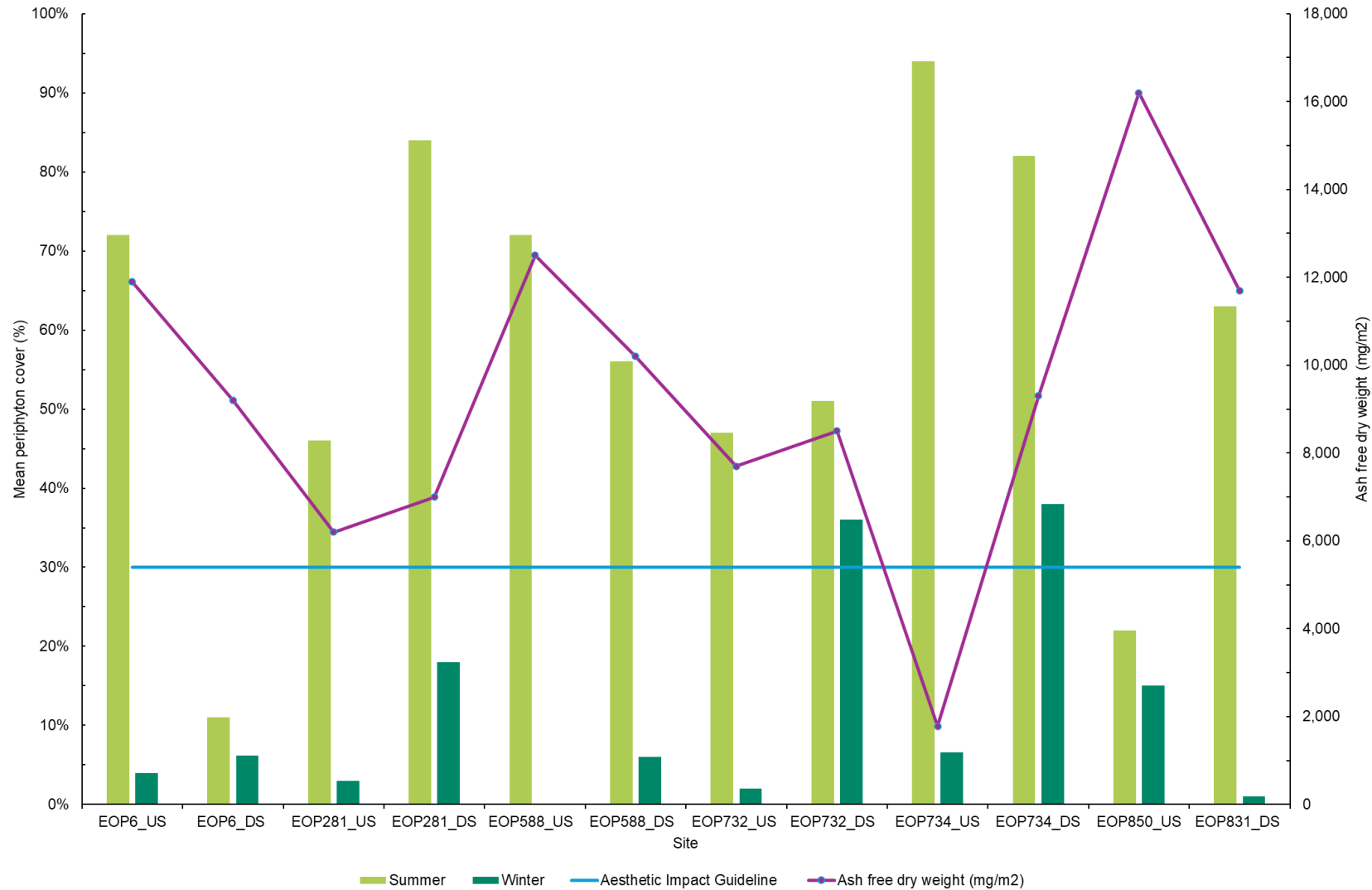


Figure 3-8 Mean periphyton cover (%) (RAM-1) for summer and winter sampling events, and ash free dry weight (mg/m²)

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3.2 Functional Indicators

3.2.1 Live algal biomass and accrual

Chlorophyll-*a* and AFDW measurements are in Appendix F and biomass accrual and net accrual rates are included in Table 3-7. After 28 days, the site with the highest chlorophyll-*a* accrual rate was the EOP732 downstream site at $0.154 \text{ mg m}^{-2} \text{ day}^{-1}$ with a net accrual rate of 0.135 day^{-1} . The site with the lowest chlorophyll-*a* accrual rate was EOP734 upstream site with a $0.03 \text{ mg m}^{-2} \text{ day}^{-1}$ and a net accrual rate of 0.021 day^{-1} . Downstream sites that recorded a higher chlorophyll-*a* net accrual rate compared to their associated upstream site included EOP281, EOP588, EOP732, and EOP734.

Trends were similar when using AFDW as a proxy for biomass, whereby downstream sites at EOP281, EOP732, EOP734 had greater accrual rates. The site with the highest biomass net accrual rate was the EOP734 downstream site at $1285.7 \text{ mg m}^{-2} \text{ day}^{-1}$ with a net accrual rate of 0.034 day^{-1} . The site with the lowest biomass accrual rate was the EOP6 downstream corresponding to $47 \text{ mg m}^{-2} \text{ day}^{-1}$ with a net accrual rate of 0.019 day^{-1} . High net accrual rates defined as exceeding 0.35 day^{-1} include EOP734 and EOP850/831.

Wilcoxon signed-rank test results indicated no significant difference between upstream and downstream sites for biomass accrual rates for either chlorophyll-*a* or AFDW (Appendix H).

DRAFT**Table 3-7 Rate of biomass (chlorophyll-a and ash free dry weight) accrual on artificial substrates over the summer sampling period**

Site	Biomass accrual rate		Net accrual rate	
	Chlorophyll-a accrual rate	AFDW accrual rate	Chlorophyll-a accrual rate	AFDW accrual rate
	(mg m ⁻² day ⁻¹)	(mg m ⁻² day ⁻¹)	(k day ⁻¹)	(k day ⁻¹)
<i>Summer</i>				
EOP6_US	0.04	63.6	0.024	0.267
EOP6_DS	0.03	47.9	0.019	0.257
EOP281_US	0.05	275.0	0.031	0.319
EOP281_DS	0.38	375.0	0.087	0.330
EOP588_US	0.09	214.3	0.045	0.310
EOP588_DS	0.29	185.7	0.079	0.305
EOP732_US	1.32	328.6	0.130	0.326
EOP732_DS	1.54	367.9	0.135	0.330
EOP734_US	0.03	382.1	0.021	0.331
EOP734_DS	0.06	1285.7	0.034	0.374
EOP850/831_US	0.64	785.7	0.105	0.357
EOP850/831_DS	0.03	142.9	0.023	0.296

3.2.2 Cotton tensile strength

Cotton tensile strength was used as a proxy for in stream microbial activity. Statistically significant differences in cotton tensile strength were identified between upstream and downstream sites at EOP6, EOP281 (summer and winter), and EOP734. In winter, statistically significant differences were identified at EOP588, EOP732, and EOP734 (see

Table 3-8; Figure 3-9, Figure 3-10).

The largest downstream difference in mean % cotton tensile loss was at EOP281 in summer. This downstream site presented the lowest concentrations of DO (mg/L), elevated nitrite level, *E-coli* level and DRP. Conversely, the upstream site at EOP734 showed similar cotton tensile loss rates to EOP281_DS. This site had higher ammoniacal-N and phosphorus concentrations. This site also presented moderate pollution SPI scores (Table 3-5) and the lowest average DO mg/L from March to June 2025 when compared to other sites (Table 3-2). Therefore, the higher % strength loss may be reflective of a 'stress response' originating from cumulative pollution loading upstream.

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Table 3-8 Cotton strip assay results including mean and p-value

Site	Summer		Winter	
	Cotton tensile strength (mean)	Cotton tensile strength (p-value)	Cotton tensile strength (mean)	Cotton tensile strength (p-value)
EOP6_US	208.48	p < 0.01*	114.32	0.491
EOP6_DS	100.88		106.88	
EOP281_US	163.56	p < 0.01*	66.52	p < 0.01*
EOP281_DS	73.44		137.68	
EOP588_US	150.32	0.163	116.35	p < 0.01*
EOP588_DS	178.72		89.20	
EOP732_US	147.32	0.364	5.00	p < 0.01*
EOP732_DS	128.88		52.16	
EOP734_US	80.60	p < 0.01*	46.24	p < 0.01*
EOP734_DS	132.8		10.10	
EOP850_US	209.92	0.908	131.20	0.210
EOP831_DS	207.72		145.32	

Note: * = Statistically significant difference between upstream and downstream site

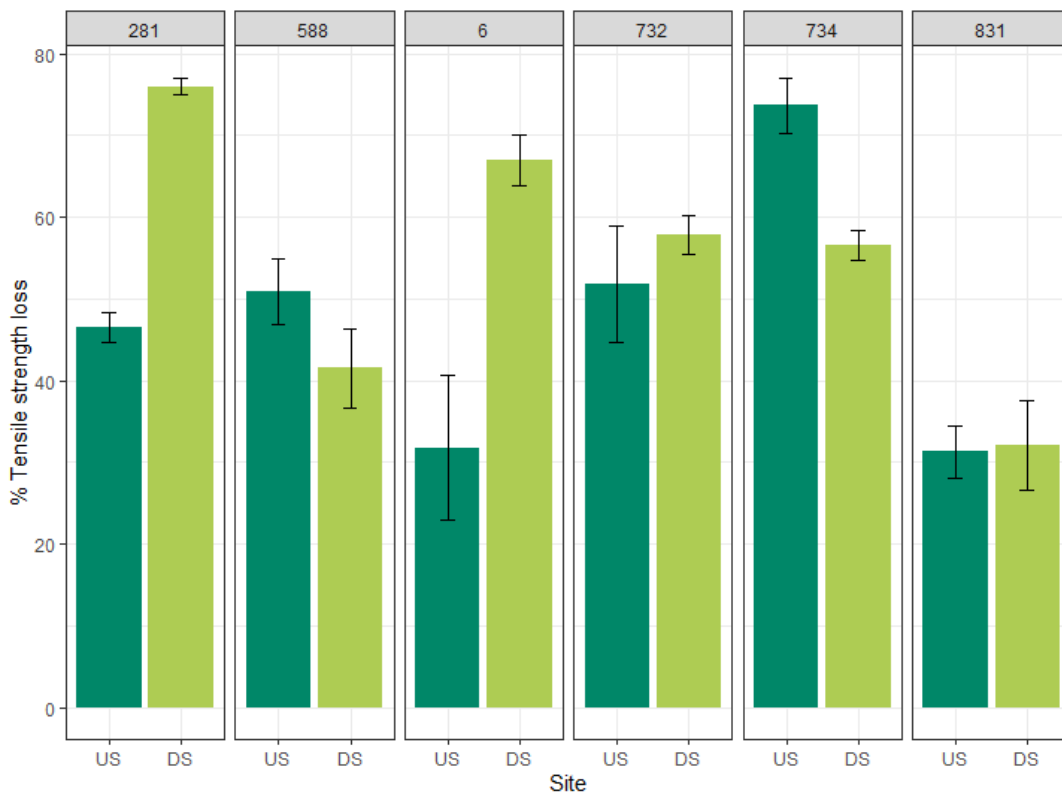


Figure 3-9 Stacked bar chart comparing % tensile strength loss of cotton strips between upstream and downstream sites during summer sampling

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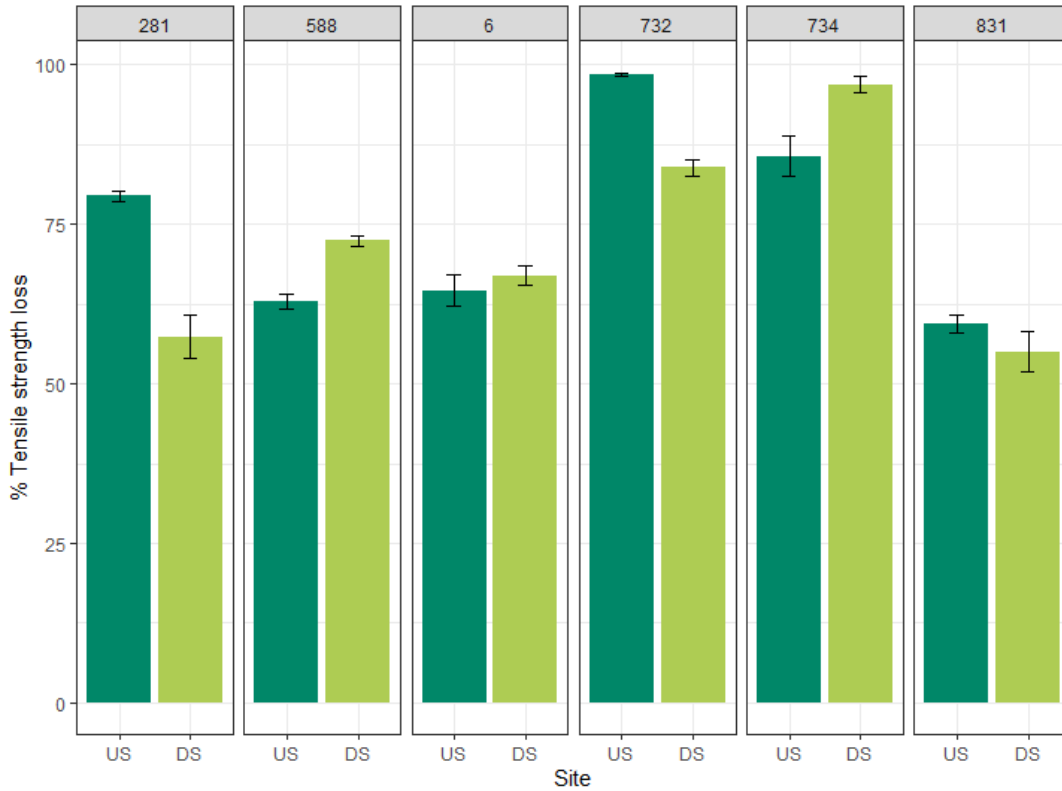


Figure 3-10 Stacked bar chart comparing % tensile strength loss of cotton strips between upstream and downstream sites during winter sampling.

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3.3 Spearman correlation analysis between physical/physicochemical parameters and ecological indicators

The Spearman rank correlation heatmap (Figure 3-11) illustrates the strength and direction of relationships between the measured physical and physicochemical parameters and biological and functional indicators across all stream sites and sampling seasons. Correlation coefficients ranged from -0.92 to +0.76, with statistically significant relationships ($p < 0.05$) indicated by asterisks.

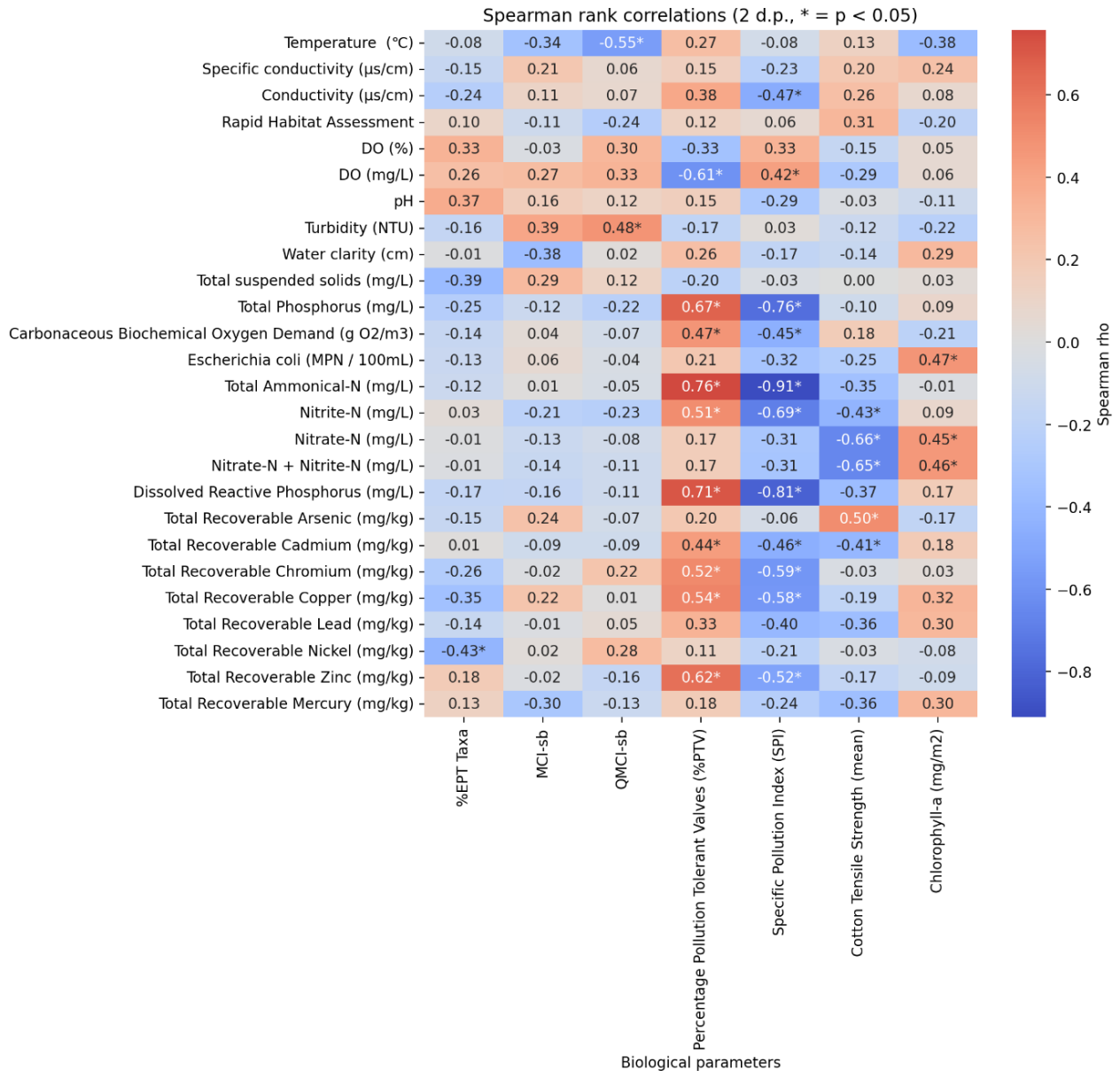


Figure 3-11 Spearman rank correlation coefficients between physical/physicochemical parameters and biological and functional indicators across all upstream and downstream stream sites

Notable correlations included TP and DRP, cBOD, total ammoniacal-N, turbidity and conductivity, total recoverable As, total recoverable Cd, total recoverable Cr and total recoverable Zn with ecological indicators (QMCI, %PTV, SPI).

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3.3.1.1 Macroinvertebrate indices

Higher temperatures were generally associated with reduced macroinvertebrate indices ($r = -0.55$). There was a negative correlation associated with total recoverable Ni and %EPT however, this was considered weak in strength. An additional moderate positive correlation was found with increased turbidity and QMCI-b which was largely driven by an outlier at the upstream site of EOP588. All other relationships were considered weak and not significant.

3.3.1.2 Diatoms

Higher total ammoniacal-N, nitrite-N and DRP was correlated with increased %PTV and decreased SPI. Similarly, cBOD showed positive correlations with %PTV and negative correlations with SPI. Heavy metals including Total recoverable Cd, Cr, Cu and Zn showed significant positive correlations with %PVT and negative correlations with SPI. Overall, positive correlations were evident with %PTV and physicochemical parameters, while negative correlations were evident with SPI and physicochemical parameters. Conversely, the only significant relationship that correlated with reduced %PTV and increases SPI was DO (mg/L).

3.3.1.3 Cotton tensile strength

Mean cotton tensile strength was negatively correlated with nitrate-N and nitrite-N indicative that lower cotton tensile strength was observed with higher nutrient concentrates. Heavy metal including total recoverable As resulted in positive correlation with cotton tensile strength.

3.4 Analysis of continuous monitoring data

The results of the analysis of historical monitoring at Oakley Creek, Warkworth, Meola Creek, and Taipari Strand is included in Appendix E. Key conclusions from the statistical analysis are provided below:

- Statistically significant differences in water quality was evident during overflow events, relative to baseline conditions.
- The 'direction' of these differences was parameter-specific. For example, DO and turbidity tended to indicate higher levels during overflows, whereas EC and pH levels were lower during overflows.
- In most cases, there were significant differences in the risk of overflow events between seasons at a given waterbody.
- Increasing rainfall was associated with increased overflow risk, at all waterbodies. For these waterbodies, comparing the relative risk of increasing rainfall between seasons, indicated mostly significant differences between seasons. Therefore, at a set rainfall level, the corresponding risk of overflow was usually significantly higher for some seasons than others.
- In the absence of rainfall, overflow risk was typically significantly different between seasons.
- These results suggest in most cases, rainfall alone is not the exclusive driver of overflow risk. Instead, it suggests additional season-related factors, besides rainfall, as potentially contributing to overflow risk.
- The season-rainfall analysis showed one anomalous result. Winter overflow at Taipari Strand appear to be relatively independent of rainfall levels. This may indicate the predominant driver of overflow risk in winter at this location as factor(s) other than rainfall.

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4 Discussion and Conclusion

The purpose of the TMP plot study was to assess the ecological effects of wastewater overflows on the receiving freshwater environments and establish suitable monitoring methodologies. Six sampling locations (EOP6, EOP588, EOP281, EOP732, EOP734 and EOP850/831) representing 'high' or 'very high ecological risk' were chosen. Each location had a downstream (DS - test) site and upstream (US - control) site. These sites were selected based on the likelihood of distinguishable ecological or physicochemical changes between upstream and downstream of the Engineered Overflow Point (EOP). Functional and biological parameters were assessed against physicochemical parameters to determine potential ecological effects derived from wastewater overflows. A biannual assessment representing summer and winter monitoring periods was undertaken to assess distinct seasonal ecological effects arising from overflows.

4.1.1 In-situ and continuous water quality monitoring

In-situ and continuous water quality monitoring was undertaken in conjunction to physicochemical and biological monitoring. Continuous water quality monitoring was undertaken using an Aquawatch WaQA, however, not all sites were appropriate for sensor deployment meaning *in-situ* monitoring was required. The only parameter that indicated a significant difference between and upstream and downstream was DO (mg/L) in summer. All other *in situ* and continuous water quality parameters were not significant.

Spearman rank correlations indicated that higher water temperatures were correlated with lower DO (mg/L $r = -0.55$; and %; $r = -0.66$). Additional strong positive correlations were observed in the continuous water quality monitoring data. Including with mean pH and mean conductivity ($r = 0.72$). Overall, strong positive correlations were evident with *in-situ* water quality and continuous water quality suggesting alignment in parameters monitored. The continuous monitoring approach provides high resolution data with the ability to detect variations indicative of probable discharge events (Aquawatch, 2025). Therefore, it is appropriate to utilise continuous monitoring devices such as the WaQA, where conditions allow. However, in the absence of suitable deployment conditions it is recommended *in-situ* monitoring is adopted.

Statistically significant correlations were observed with biological parameters and water quality. Notably, lower DO (mg/L) was correlated with higher %PTV, while higher DO (mg/L) was correlated with higher SPI scores. DO (mg/l) was the only variable to show a statistically significant difference between upstream and downstream sites ($p < 0.05$). While %PTV and SPI were the only biological indices to show significant differences upstream and downstream. The observed spatial variation associated with DO (mg/L) could be indicative of wastewater overflow effect, that is subsequently evidenced in the diatom community. This is further complimented by the continuous water quality results, where sites EOP281 and EOP588 represented the most degraded sites,⁴ corresponding with the lowest SPI and highest %PTV scores.

4.1.2 Water quality laboratory results

Water quality laboratory results included TSS, TP, cBOD, *E-coli*, total ammoniacal-N, nitrite-N, nitrite-N, DRP and UV fluorescence⁵. The majority of sites were above the ANZG 80th percentile for TP and within attribute Bank D (national bottom line) for *E-coli*. Seasonal variation in water quality was observed, however TSS was consistently higher downstream at EOP588 and EOP734. Moreover, statistically significant differences were observed between upstream and downstream for TSS, and DRP ($p < 0.05$). Additionally, grouping upstream and downstream by season allowed statistically significant differences in total ammoniacal-N to be determined. On average, TSS, DRP and ammoniacal-N was greater downstream. EOP588 and EOP281 consistently showed elevated TSS, TP, *E-coli* and total ammoniacal-N downstream. These data support the conclusion that EOP588 and EOP281 were representative of the most degraded sites.

Elevated TP (mg/L) was correlated with reduced DO (mg/l) concentrations ($r = -0.69$), elevated conductivity ($r = 0.60$), total ammoniacal-N ($r = 0.70$) and nitrite-N ($r = 0.66$). TP, total ammoniacal-N, nitrite-N and DRP represented moderate to strong correlations with %PTV and SPI. Whereby, positive

⁴ Refer to Aquawatch (2025). Watercare TMP Pilot – Continuous Water Quality Assessment.

⁵ UV fluoresce was used as a proxy for Fluorescent Whiting Agents (FWA)
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correlations were present with %PTV and negative correlations were evident with SPI, indicative of association with diatom indices. Significant positive correlations were also observed with Chlorophyll-*a* and elevated *E. coli*, nitrate-N and nitrite-N. The relationship between nutrient enrichment and elevated in algal biomass (measured as Chlorophyll *a*) are well-established (Biggs, 2000; Biggs & Kilroy, 2000; Bennet et al., 2021).

Functionally, elevated nitrate-N and nitrite-N were moderately correlated with reduced cotton tensile strength. Cotton tensile strength provides a measure of microbial decomposition and is used as a biological indicator for stream ecosystem function. These correlations could suggest nutrient imbalance within these streams leading to elevated microbial breakdown. Notably, the largest downstream difference in % cotton tensile loss (lowest mean tensile strength) was EOP281 in summer. This downstream site presented the lowest concentrations of DO (mg/L), elevated nitrite-N and nitrate-N, *E. coli* and DRP concentrations, which collectively may have resulted in enhanced microbial breakdown at this site. However, cotton tensile strength was variable and although significant differences were evident, these were not always representative of increased cotton tensile loss downstream. Subsequently, the resulting variability was problematic and consequential relationships likely driven by wastewater overflow were not consistently apparent.

4.1.3 Sediment analysis

Heavy metals including total recoverable arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), lead (Pb), nickel (Ni), zinc (Zn), boron (B), and mercury (Hg) were analysed in sediment samples. Generally, all samples were below DGVs for As, Cd, and Cr. However, Ni was recorded above DGVs at all sites except for EOP6_US (in summer) and EOP732_DS (in winter). Zn was above DVG at several sites; however, this was not consistent across upstream or downstream or between seasons. Despite Cr being below DVGs, statistically significant relationships were present in summer ($p > 0.05$). Diatom indices consistently showed correlations with heavy metals, whereby high %PTV and low SPI scores correlated with elevated Cr, Ca, Cu and Zn. These data are consistent with Morin et al., (2008) in south-west France, where metal accumulation of Ca and Zn was reflected in SPI scores with lowest diatom densities observed in summer. Targeted diatom analyses and heavy metal contamination remains largely underrepresented in New Zealand; however results suggest diatoms indices may provide a useful indicator of potential ecological effects arising from metal contamination.

Functionally, a significant positive correlation was found with cotton tensile strength and total recoverable As. Research on arsenic contamination in sediment and soils has shown to inhibit microbial activity and breakdown (Giller et al., 2009; Zwieter et al, 2003; Lui et al., 2023). Importantly, total recoverable As levels were below the DVG across all sites and no statistical differences were observed across and seasons.

Stream sediment was predominantly gravel, followed by very coarse sand, medium sand, and coarse sand. Only two sites, EOP732 and EOP734 seasonal differences in grain size composition. However, no significant differences between upstream and downstream and between seasons were recorded.

4.1.4 Biological indicators and sampling recommendations

Macroinvertebrate communities were dominated by pollution-tolerant taxa, with all MCI and QMCI values below the national bottom line. No significant differences were evident between upstream and downstream or between seasons. This is likely attributed to the existing degraded sites, poor habitat quality and surrounding catchment pressures, irrespective of wastewater overflows.

Temperature, dissolved oxygen, and turbidity showed correlations with ecological indicators, particularly QMCI, %PTV and SPI. These relationships reflect well-established ecological processes, i.e. reduced oxygen availability can reduce habitat suitability for sensitive taxa, while higher turbidity often signals increased suspended particles in the water column. The strength and direction of these associations indicate that these physicochemical parameters are reliable indicators of ecological stress and should form a core component of monitoring.

Nutrients (total ammoniacal-N, nitrite-N, nitrate-N) and DRP also showed correlations with multiple ecological indicators, including %PTV, SPI, chlorophyll *a*, and mean cotton tensile strength. Elevated nutrients (i.e. higher ammoniacal-N and DRP) were associated with increased %PTV and decrease SPI, demonstrating that nutrient monitoring may provide insight into potential ecological effects from

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wastewater discharges. This supports the inclusion of routine nutrient sampling in the recommended monitoring programme.

Heavy metals present within the sediment were also indicative of strong correlation with ecological indicators. Significant correlations were observed for As, Cr, Cu and Zn with %PTV, SPI and cotton tensile strength. These relationships with ecological variables indicate that routine sediment metal monitoring remains valuable and recommended in the monitoring programme.

Although cotton tensile strength provides a useful indicator of microbial breakdown rates, there was variation in the data, with no evident significant differences from upstream to downstream. It is therefore recommended to discontinue the use of cotton strips for future monitoring. Similarly, the inclusion of artificial substrates to measure accumulation rates of periphyton biomass resulted in highly variable results and did not provide a practicable method for monitoring.

Biological indicators, including macroinvertebrates and diatoms, showed relationships with multiple water quality parameters. Both macroinvertebrate and diatom indices responded predictably to changes in temperature, oxygen, conductivity, and nutrient concentrations, reinforcing their role as integrative measures of stream health. In addition, macroinvertebrate indices benefit from established NPS-FM attribute bands, which provide nationally recognised thresholds for interpreting ecological condition. While diatom communities are sensitive bioindicators and can respond rapidly to disturbance (i.e., wastewater overflows) (Masouras et al. 2021; Silva et al., 2024), including both macroinvertebrate and diatom during future sampling efforts would provide complementary information and confidence in assessing stream condition.

4.2 Overall ecological effects on small waterways from wastewater overflows

Physical, physicochemical and biological attributes showed variation across EOPs, between upstream and downstream and across seasons. The majority of these sites were indicative of poor ecological health evidenced by pollution tolerant taxa and biotic indices indicative of poor habitat quality or organic pollution. Generally, downstream sites showed higher turbidity and dissolved oxygen. Heavy metal contamination was further apparent. Significant differences were evident for total suspended solids, nutrients, DRP, Cr and diatom indices (%PTV and SPI) between upstream and downstream. Although not all significant differences could be attributed to wastewater overflow with some parameters on average showed marginal improvements downstream (e.g., %PTV and SPI). This highlights the challenges with isolating wastewater effects in already degraded stream systems. However, some EOPs consistently performed poorly. EOP281 and EOP588 were identified as the highest ecological risk sites⁶ and exhibited macroinvertebrate and diatom indices typical of degraded conditions and organic pollution. Overall, the parameters analysed performed well in quantifying and categorising habitat indicative of degraded systems.

Long-term continuous water quality monitoring data was assessed to determine whether overflow events were associated with material changes to receiving waterbody water quality. Results indicated that there were significant differences in water quality conditions during overflow events relative to baseline conditions. During overflows, conductivity and pH levels reduced, while DO and turbidity increased. These data are consistent with the WaQa continuous monitoring data undertaken across the TMP pilot monitoring sites, where the first-flush dilution signature resulted in reduced conductivity and pH and elevated DO and turbidity. The consistency across these datasets could suggest that conductivity, pH, DO and turbidity are key parameters when assessing water quality impacts from wastewater overflow. The correlations between reduced DO and conductivity with %PTV and SPI suggest diatom indices may be important biological indicators for tracing overflows.

Overall, the statistical analysis of long-term monitoring data support the continuous monitoring results in the TMP underscoring the importance of continuous monitoring at EOPs.

⁶ Refer to Aquawatch (2025) TMP Pilot Continuous Water Quality Assessment.
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4.3 Sampling locations and timing

During the pilot monitoring, paired upstream and downstream sites at each stream location were used. This is considered essential for reliably detecting ecological effects associated with wastewater discharges. Upstream sites provide a reference condition that reflects the natural state of the stream at that location, accounting for catchment-specific characteristics such as geology, land use, hydrology, and background water quality. Downstream sites, located immediately below the wastewater discharge point, capture the combined influence of the upstream condition and any potential changes associated with the wastewater input. By comparing paired upstream–downstream results within the same stream and sampling period, this controls for natural spatial and temporal variability, which can otherwise obscure subtle wastewater discharge related effects. This paired design improves the interpretability of the data, enabling clearer attribution of any observed ecological impairment to the discharge activity rather than broader catchment influences.

Although sites were selected based on the likelihood of distinguishable ecological or physicochemical differences based on 'high to very high' risk category, upstream habitats were already largely degraded. This was evident in the macroinvertebrate community indices where all MCI and QMCI values fell below nation bottom line (NPS-FM Attribute Band D). Subsequently, it is recommended to include six additional sites rated as moderate to low, that have representative upstream sites that are not significantly degraded. This would also provide a comparison between risk categories. Potential suitable sites are provided in Appendix I.

Statistically significant differences between upstream and downstream were only observed in summer. As such, concentrating monitoring events in a single season in summer is unlikely to reduce the sensitivity of the monitoring.

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5 Recommendations

Based on field surveys and statistical data analyses undertaken in this TMP pilot monitoring, the following recommendations are provided to support the development of a monitoring plan aimed at detecting potential ecological effects associated with wastewater discharges. The monitoring plan should include sampling parameters, methodologies, locations, and timing. Recommendations of sampling parameters and methodologies include:

- **Rapid Habitat Assessment**
- **Instream water quality**
 - *Continuous water quality monitoring*
 - Temperature (°C);
 - Dissolved oxygen (DO) (%);
 - Dissolved oxygen (DO) (mg/L)
 - Conductivity (µS/cm);
 - Turbidity (Nephelometric Turbidity Unit (NTU)); and
 - pH (pH units).

Note: Where conditions are not suitable to deploy continuous monitoring devices, in-situ water quality monitoring should be undertaken using a handheld water quality meter.

- **Water samples** including the analysis of:
 - Carbonaceous biochemical oxygen demand (cBOD) (g O₂/m³);
 - *Escherichia coli* (MPN/100 mL);
 - Total Ammoniacal-N (mg/L);
 - Nitrite-N (mg/L);
 - Nitrate-N (mg/L);
 - Nitrate-N + Nitrite-N (mg/L);
 - Dissolved Reactive Phosphorus (DRP) (mg/L);
 - UV fluorescence
- **Sediment samples** including heavy metal analysis of
 - Total Recoverable Arsenic;
 - Total Recoverable Cadmium;
 - Total Recoverable Chromium;
 - Total Recoverable Copper;
 - Total Recoverable Lead;
 - Total Recoverable Nickel;
 - Total Recoverable Mercury;
 - Total Recoverable Zinc.
- **Diatoms community assemblages** including the analysis of
 - Percentage Pollution Tolerant Values (%PTV); and
 - Specific Pollution Sensitivity Index (SPI).

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- **Macroinvertebrates community assemblages** including the analysis of
 - Number of taxa - the total number of macroinvertebrate taxa recorded at each site;
 - Number of individuals – the total number of individual macroinvertebrates recorded at each site;
 - %EPT Taxa – Percentage of Ephemeroptera, Plecoptera, Trichoptera (EPT) Taxa;
 - MCI/MCI-sb Value – Macroinvertebrate Community Index/(for soft-bottomed streams) and
 - QMCI/QMCI-sb Value – Quantitative Macroinvertebrate Community Index/(for soft-bottomed streams)

There is a recommendation for three replicate diatom and macroinvertebrate samples to be collected at upstream and downstream locations to allow statistical differences be determined for each respective EOP.

It is recommended to continue monitoring the selected sites in future monitoring, with the inclusion of EOPs with a moderate to low ecological risk classification. This would allow comparison between risk categories (representing differing wastewater impact levels) over a range of stream conditions. Each sampling location should include an upstream and downstream site (i.e. upstream of the wastewater EOP, and downstream of the wastewater EOP). In addition, it is recommended that monitoring should be undertaken annually during the summer period (December, January, February).

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6 References

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Appendix A

Photographic Log

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Appendix A Photographic Log

Photographic Log

Photo No: 1	Date: 28/03/25
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Description:
EOP6_US during summer sampling event.



Photo No: 2	Date: 11/08/25
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Description:
EOP6_US during the winter sampling event.



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Photographic Log

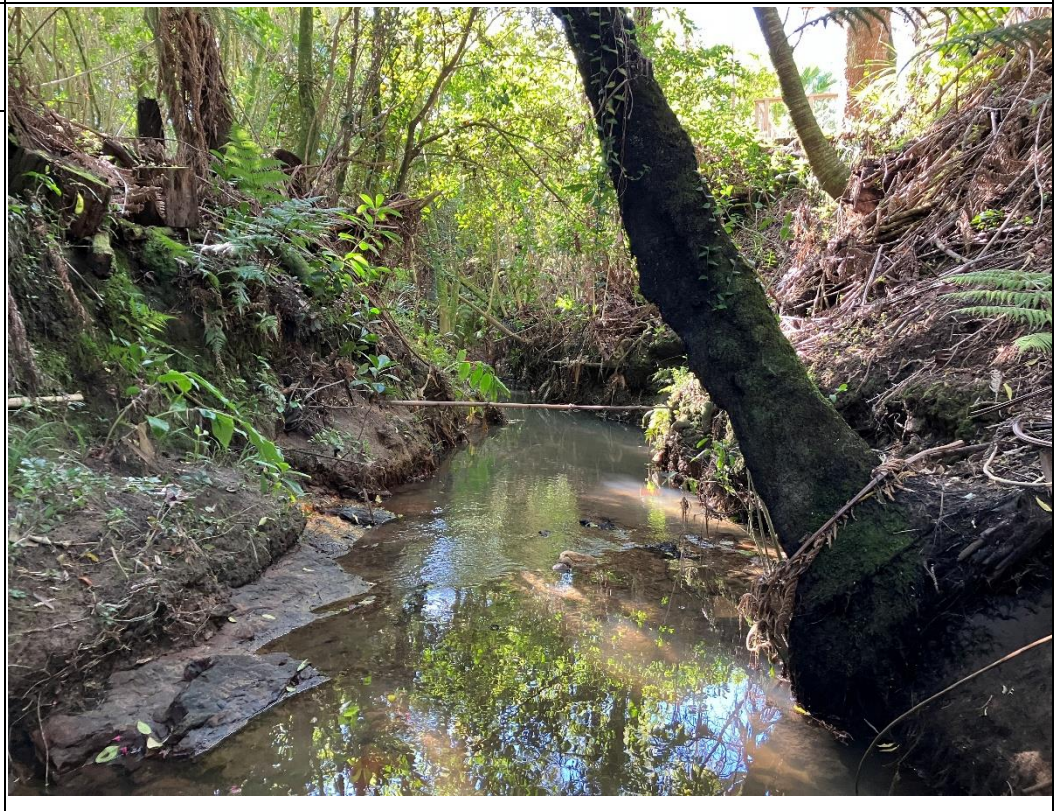
Photo No: 3
Date: 28/03/25

Description:
EOP6_DS during the summer sampling event, including an example of an AquaWatch 'WaQA' sensor, and deployed crate with artificial substrates and cotton strips.



Photo No: 4
Date: 11/08/25

Description:
EOP6_DS during the winter sampling event.



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Photographic Log

<p>Photo No: 5</p>	<p>Date: 11/03/25</p>	
<p>Description: EOP281_US during the summer sampling event.</p>		

<p>Photo No: 6</p>	<p>Date: 12/08/25</p>	
<p>Description: EOP281_US during the winter sampling event.</p>		

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Photographic Log

Photo No: 7	Date: 11/03/25
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Description:
EOP281_DS during the summer sampling event.



Photo No: 8	Date: 12/08/25
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Description:
EOP281_DS during the winter sampling event.



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Photographic Log

<p>Photo No: 9</p>	<p>Date: 11/03/25</p>	
<p>Description: EOP588_US during the summer sampling event.</p>		

<p>Photo No: 10</p>	<p>Date: 13/08/25</p>	
<p>Description: EOP588_US during the winter sampling event.</p>		

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Photographic Log

<p>Photo No: 11</p>	<p>Date: 11/03/25</p>	
<p>Description: EOP588_DS Site photo during the summer sampling event.</p>		

<p>Photo No: 12</p>	<p>Date: 13/08/25</p>	
<p>Description: EOP588_DS during the winter sampling event.</p>		

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Photographic Log

Photo No: 13	Date: 28/03/25
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Description:
EOP732_US during the summer sampling event.



Photo No: 14	Date: 12/08/25
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Description:
EOP732_US during the winter sampling event.



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Photographic Log

<p>Photo No: 15</p>	<p>Date: 28/03/25</p>	
<p>Description: EOP732_DS during the summer sampling event.</p>		

<p>Photo No: 16</p>	<p>Date: 12/08/25</p>	
<p>Description: EOP732_DS during the winter sampling event.</p>		

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Photographic Log

<p>Photo No: 17</p>	<p>Date: 13/03/25</p>	
<p>Description: EOP734_US during the summer sampling event.</p>		

<p>Photo No: 18</p>	<p>Date: 13/08/25</p>	
<p>Description: EOP734_US during the winter sampling event.</p>		

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Photographic Log

<p>Photo No: 19</p>	<p>Date: 13/03/25</p>	
<p>Description: EOP734_DS during the summer sampling event.</p>		

<p>Photo No: 20</p>	<p>Date: 13/08/25</p>	
<p>Description: EOP734_DS during the winter sampling event.</p>		

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Photographic Log

<p>Photo No: 21</p>	<p>Date: 28/03/25</p>	
<p>Description: EOP850_US during the summer sampling event.</p>		

<p>Photo No: 22</p>	<p>Date: 14/08/25</p>	
<p>Description: EOP850_US during the winter sampling event.</p>		

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Photographic Log

Photo No: 23	Date: 28/03/25
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Description:
EOP831_DS during the summer sampling event.



Photo No: 24	Date: 14/08/25
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Description:
EOP831_DS during the winter sampling event.



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Appendix B

AquaWatch Report

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Appendix B AquaWatch Report

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Appendix C

Diatom Memorandum

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Appendix C Diatom Memorandum

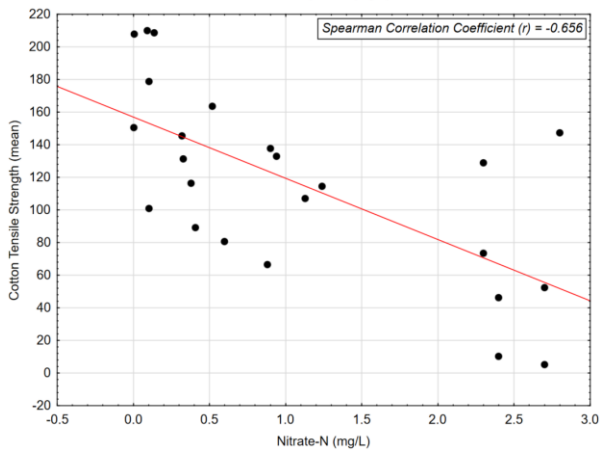
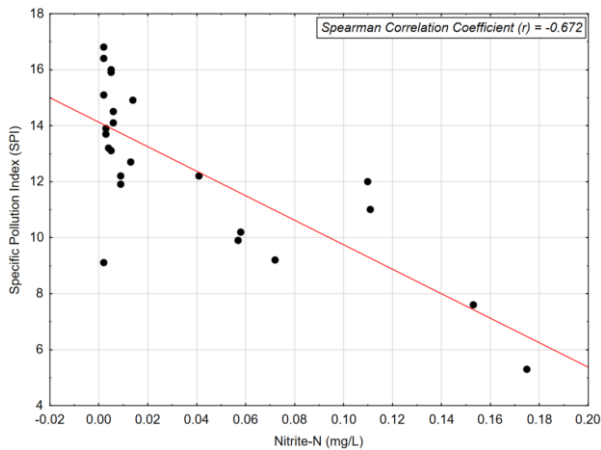
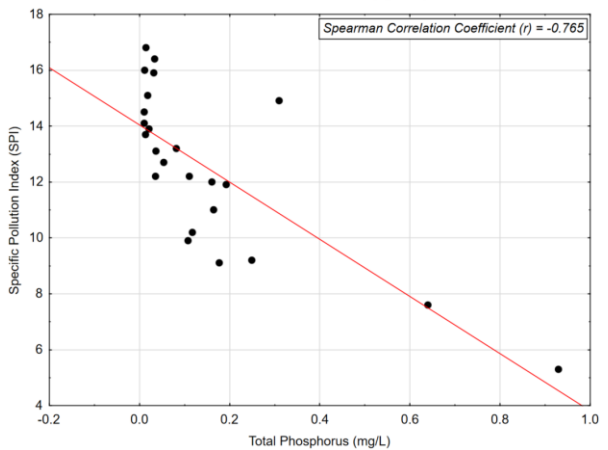
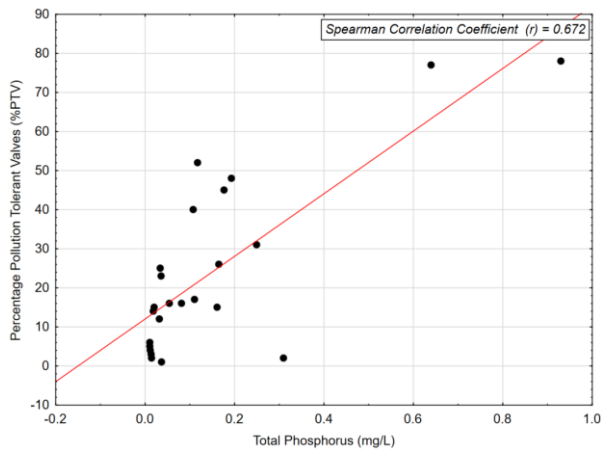
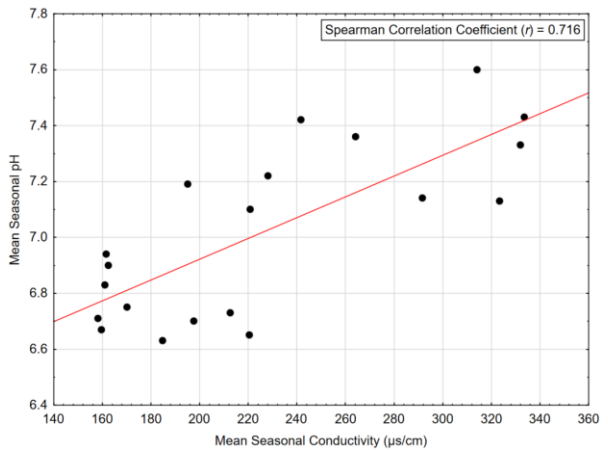
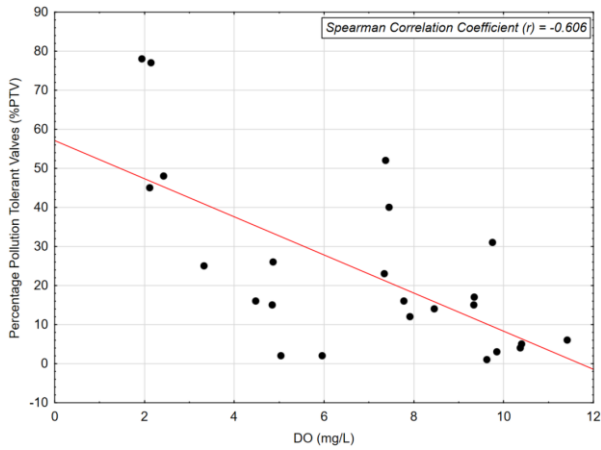
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Appendix D

Scatterplots

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Appendix D Scatterplots



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Appendix E

Statistical analysis of
continuous monitoring
data

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Appendix E Statistical analysis of continuous monitoring data

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Appendix F

Laboratory Reports

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Appendix F Laboratory Reports

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Appendix G

Detailed Results

DRAFT**Appendix G Detailed Results****Table G- 1 Rapid Habitat Assessment results from the summer and winter sampling events**

Site	Summer		Winter	
	Score	Category	Score	Category
EOP6_US	52	Good	44	Fair
EOP6_DS	48	Fair	41	Fair
EOP281_US	64	Good	52	Good
EOP281_DS	58	Good	59	Good
EOP588_US	35	Fair	34	Fair
EOP588_DS	36	Fair	35	Fair
EOP732_US	48	Fair	43	Fair
EOP732_DS	43	Fair	44	Fair
EOP734_US	45	Fair	36	Fair
EOP734_DS	43	Fair	39	Fair
EOP850_US	73	Good	73	Good
EOP831_DS	47	Fair	45	Fair

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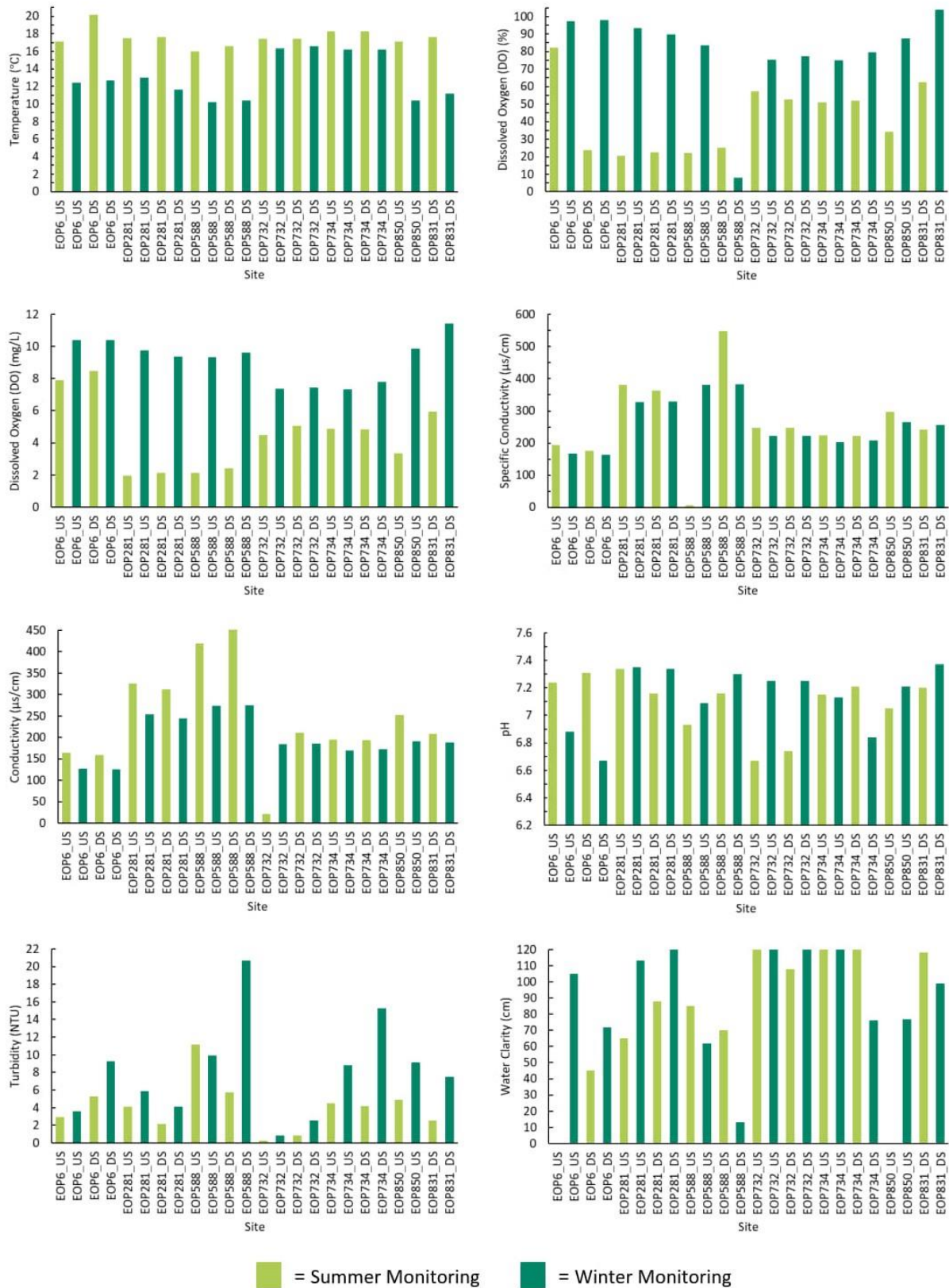


Figure G- 1 Instream water quality results over summer and winter monitoring period measured using a calibrated YSI ProDSS

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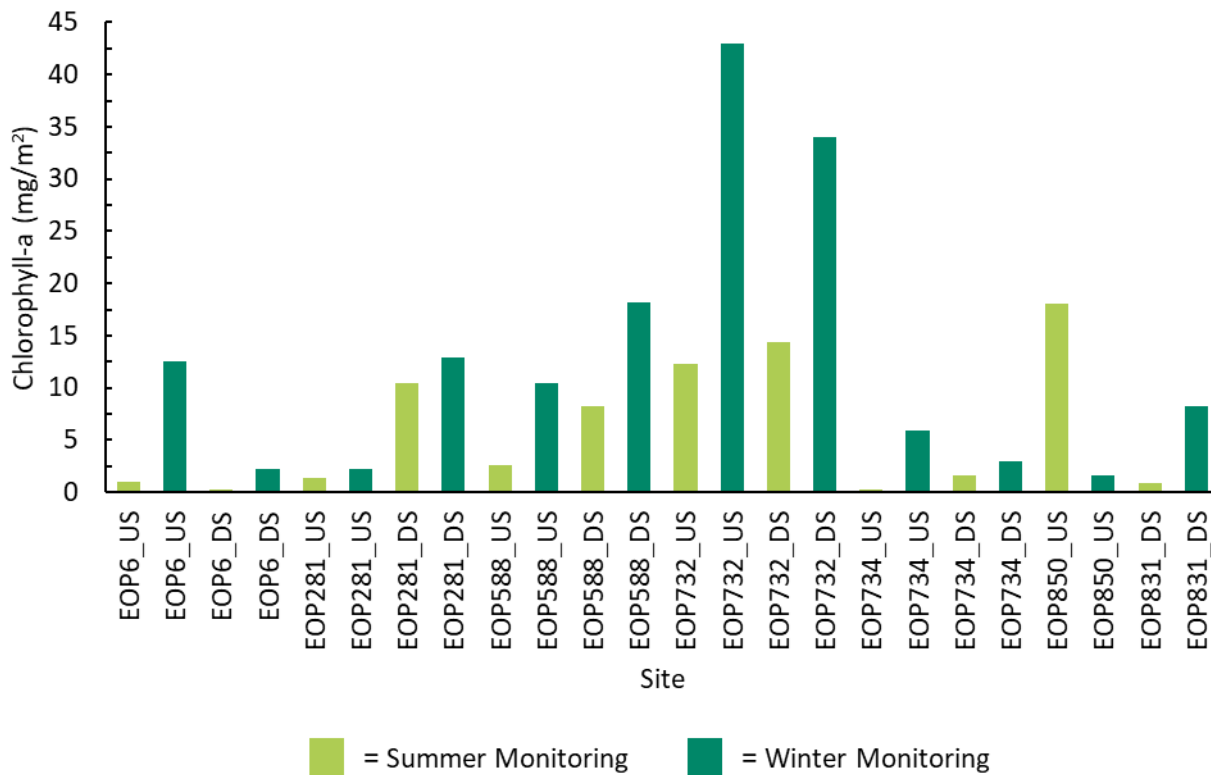


Figure G- 2 Comparison of chlorophyll-a (mg/m2) per site across summer and winter monitoring period.

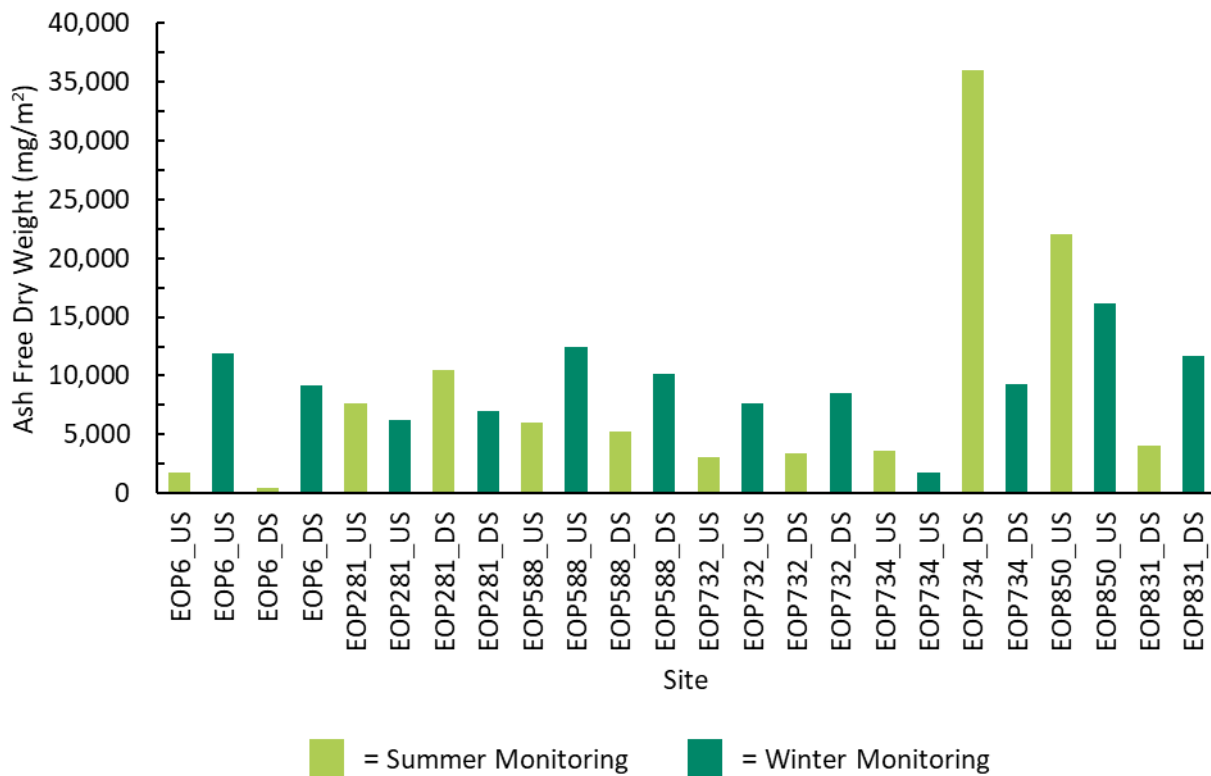


Figure G- 3 Comparison of ash free dry weight (mg/m2) per site across summer and winter monitoring period

DRAFT**Table G- 2 Macroinvertebrate results for the summer and winter sampling events**

Site	Number of Taxa	Number of Individuals	% EPT Taxa	MCI/MCI-sb	QMCI/QMCI-sb
<i>Summer</i>					
EOP6_US	11	632	9.09	48.91	2.27
EOP6_DS	11	1634	0	64.00	2.11
EOP281_US*	8	47	0	55.00*	2.74*
EOP281_DS*	12	517	0	60.00*	2.87*
EOP588_US	9	204	0	49.78	2.53
EOP588_DS	9	802	0	68.44	2.28
EOP732_US	9	1612	0	49.71	2.11
EOP732_DS	6	3301	0	22.00	1.10
EOP734_US*	7	3211	0	68.57*	4.00*
EOP734_DS*	10	3240	0	62.00*	3.61*
EOP850_US*	6	407	0	70.00*	3.88*
EOP831_DS	6	1065	0	44.67	2.23
<i>Winter</i>					
EOP6_US	6	104	0	45.33	2.24
EOP6_DS	5	211	0	58.40	1.87
EOP281_US*	5	51	0	68.80*	3.03*
EOP281_DS*	11	173	0	71.27*	2.41*
EOP588_US	8	270	0	57.75	4.23
EOP588_DS	9	179	0	69.33	2.42
EOP732_US	8	3525	0	30.57	1.91
EOP732_DS	7	3331	14.29	61.00	3.42
EOP734_US*	10	270	0	52.00*	3.40*
EOP734_DS*	10	871	0	48.00*	2.86*
EOP850_US*	9	1066	0	64.44*	3.98*
EOP831_DS	8	1633	12.5	43.25	2.11

Notes: * = Hard bottom stream. Red shading = Result below NPS-FM Attribute Band D (national bottom line).

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Appendix H

Wilcoxon Signed-Rank Test Results

DRAFT**Appendix H Wilcoxon Signed-Rank Test Results****Table H- 1 Wilcoxon signed-rank test results comparing upstream and downstream water quality parameters**

Upstream vs Downstream	Z	p value
Temperature (°C)	1.72	0.086
DO (%)	0.24	0.814
Specific conductivity (µs/cm)	0.63	0.530
Conductivity (µs/cm)	0.39	0.695
pH	0.49	0.625
Turbidity (NTU)	0.47	0.638
Water clarity (cm)	0.15	0.878
AQUAWATCH DO (mg/L)	1.38	0.169
AQUAWATCH Turbidity (NTU)	1.17	0.241
AQUAWATCH Temperature (°C)	0.97	0.333
AQUAWATCH pH	0.20	0.838
AQUAWATCH Conductivity (µs/cm)	0.15	0.878
Total suspended solids (mh/L)	2.07	0.038
Total phosphorus (mg/L)	0.47	0.638
Carbonaceous biochemical oxygen demand (g O ₂ /m ³)	0.53	0.593
Escherichia coli	0.30	0.767
Total ammoniacal-N	1.51	0.131
Nitrite-N (mg/L)	0.04	0.965
Nitrate-N (mg/L)	0.15	0.878
Nitrate-N + Nitrite-N (mg/L)	0.05	0.959
Dissolved reactive phosphorus (mg/L)	2.27	0.023
Total recoverable arsenic (mg/kg)	1.01	0.314
Total recoverable cadmium (mg/kg)	0.00	1.000
Total recoverable chromium (mg/kg)	1.33	0.182
Total recoverable copper (mg/kg)	0.51	0.610
Total recoverable lead (mg/kg)	0.09	0.929
Total recoverable nickel (mg/kg)	1.26	0.209
Total recoverable zinc (mg/kg)	1.18	0.239
Total recoverable mercury (mg/kg)	0.91	0.361
% EPT Taxa	1.07	0.285
MCI-sb	1.18	0.239
QMCI-sb	1.26	0.209
Percentage pollution tolerant valves	2.12	0.034

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Specific pollution index	2.12	0.034
Chlorophyll-a (mg/m ²)	0.31	0.754
Ash free dry weight (mg/m ²)	0.16	0.875
Cotton tensile strength (mean)	0.24	0.814

Note: Bold values (< 0.05) = significant result

Table H- 2 Wilcoxon signed-rank test results comparing upstream and downstream water quality parameters grouped by season (summer and winter)

Upstream vs. Downstream	Summer		Winter	
	Z	p value	Z	p value
Temperature (°C)	1.83	0.068	0.67	0.500
DO (%)	0.10	0.917	0.31	0.753
DO (mg/L)	0.199	< 0.05	0.15	0.249
Specific conductivity (µs/cm)	0.73	0.463	0.10	0.917
Conductivity (µs/cm)	0.10	0.917	0.31	0.753
pH	1.15	0.249	0.54	0.590
Turbidity (NTU)	0.94	0.345	1.15	0.249
Water clarity (cm)	0.67	0.500	0.13	0.893
AQUAWATCH DO (mg/L)	0.94	0.345	0.67	0.500
AQUAWATCH Turbidity (NTU)	0.67	0.500	0.94	0.345
AQUAWATCH Temperature (°C)	0.67	0.50	0.67	0.500
AQUAWATCH pH	0.13	0.893	0.40	0.686
AQUAWATCH Conductivity (µs/cm)	0.13	0.893	0.13	0.893
Total suspended solids (mg/L)	2.02	0.043	1.10	0.273
Total phosphorus (mg/L)	0.52	0.600	0.10	0.917
Carbonaceous biochemical oxygen demand (g O ₂ /m ³)	0.45	0.655	-	-
Escherichia coli	0.94	0.35	0.73	0.465
Total ammoniacal-N	2.02	0.043	0.10	0.917
Nitrite-N (mg/L)	0.13	0.893	0.31	0.753
Nitrate-N (mg/L)	0.52	0.600	0.00	1.000
Nitrate-N + Nitrite-N (mg/L)	0.52	0.600	0.73	0.465
Dissolved reactive phosphorus (mg/L)	2.20	0.028	0.81	0.418
Total recoverable arsenic (mg/kg)	1.35	0.178	0.37	0.715
Total recoverable cadmium (mg/kg)	0.40	0.686	0.53	0.593
Total recoverable chromium (mg/kg)	2.20	0.028	1.21	0.225
Total recoverable copper (mg/kg)	0.42	0.675	0.52	0.600
Total recoverable lead (mg/kg)	0.94	0.345	0.73	0.463

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Total recoverable nickel (mg/kg)	1.57	0.116	0.10	0.917
Total recoverable zinc (mg/kg)	0.31	0.753	1.36	0.173
Total recoverable mercury (mg/kg)	1.34	0.180	0.45	0.655
% EPT Taxa	-	-	1.34	0.180
MCI-sb	0.52	0.600	0.94	0.345
QMCI-sb	0.31	0.753	1.36	0.173
Percentage pollution tolerant valves	1.15	0.463	0.10	0.917
Specific pollution index	1.78	0.075	1.15	0.249
Chlorophyll-a (mg/m ²)	0.73	0.463	0.10	0.917
Ash free dry weight (mg/m ²)	0.10	0.917	0.31	0.753
Cotton tensile strength (mean)	0.73	0.463	0.52	0.600

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Appendix I

Potential Monitoring Sites

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Appendix I Potential Monitoring Sites



WaterCare TMP Pilot - Continuous Water Quality Assessment

Prepared By:
Ebi Hussain
13 October 2025

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Executive Summary

Watercare commissioned AquaWatch to install ten WAQAs at paired upstream and downstream locations to collect high-frequency data from five key Engineered Overflow Points (EOPs) as part of the pilot Targeted Monitoring Programme (TMP).

The objective was to strengthen the understanding of urban stream health, facilitate the identification of wastewater discharge events in real time, and provide ecological context to Watercare's existing monitoring.

The automated Differential Dual Signal Response (DDSR) detection and Ecological Risk Scoring (ERS) framework identified suspected discharge events and classified them by severity, duration, and ecological risk. EOP 281 and EOP 588 were consistently identified as the highest ecological-risk sites. The diatom indices, macroinvertebrate indices and cotton strip assays also identified these same sites as the poorest performing, confirming strong agreement between the biological assessments and model-based results. EOP 831 was classified as high risk under the model due to turbidity safeguard triggers however, contextual evaluation indicates the elevated turbidity was likely caused by local site characteristics and catchment inputs rather than wastewater contamination. EOP 734 and EOP 6 displayed stable water quality and no qualifying discharge events, suggesting limited overflow impact.

The pilot study demonstrated that this real-time analytical framework provides results consistent with ecological surveys yet offers significant advantages in speed, frequency, and interpretive power. It is capable of continuously tracking water-quality responses, quantifying episodic risk, and providing temporal context to discrete biological assessments. The findings show that combining continuous water-quality monitoring with automated event detection and ecological-risk models provides a robust, cost-efficient, and scalable alternative to traditional survey-based monitoring. It offers continuous tracking of contamination episodes, supports prioritisation of mitigation efforts, and enhances Watercare's ability to manage environmental risk dynamically.

Moving forward, model refinements such as site-specific calibration, incorporation of biological validation, and refinement of safeguard thresholds will further strengthen accuracy. This integrated, high-resolution monitoring framework allows for more responsive, evidence-based environmental management and aligns with the long-term objectives of the Targeted Monitoring Programme to improve ecological outcomes across Auckland's urban waterways.

1. Introduction

Watercare engaged AquaWatch to install and operate a network of continuous water quality sensors (WAQAs) to monitor five engineered overflow points (EOPs) (Figure 1). The purpose of this monitoring programme is to generate high-resolution data that supports and informs the objectives of Watercare's Targeted Monitoring Programme (TMP). The use of continuous monitoring allows for more precise detection of wastewater discharge events, improved understanding of temporal water quality dynamics, and enhanced capability to assess ecological risks associated with overflow activity.

The Targeted Monitoring Programme (TMP) has undergone several stages of development and refinement. The original framework outlined the foundation for systematic monitoring of water quality and ecological conditions. The TMP was subsequently revised to establish a more cost-effective and targeted monitoring strategy. Early phases of the TMP relied primarily on discrete water quality and ecological sampling across three catchments and produced inconclusive results due to limited temporal coverage. In response, Watercare initiated a continuous monitoring approach using water quality sensors to collect higher-frequency data capable of capturing transient and episodic pollution events. Complementary to this monitoring, independent ecological assessments are being conducted by AECOM and Tonkin & Taylor (T+T) to strengthen the interpretive and ecological context of the TMP.

Under this pilot programme, AquaWatch has implemented a 12-month continuous water quality monitoring initiative, deploying ten WAQAs across the five key EOP sites with paired upstream and downstream sensors at each location (Figure 1). This configuration is designed to provide robust, comparative datasets that characterise water quality changes attributable to overflow activity and wider catchment inputs. The continuous data supports targeted analyses required under Watercare's TMP, aligns with AECOM's ongoing ecological assessments, and contributes to meeting regulatory consent obligations while improving the understanding of catchment health and environmental impact pathways.

This report presents an analysis of continuous water quality data collected from all EOP sites between March and September 2025. It includes a general assessment of physical water quality conditions observed across the monitoring period, as well as the outcomes of a preliminary automated discharge event detection and ecological risk assessment model, developed to identify wastewater-related events, evaluate their severity, duration, and estimate potential ecological impacts.

Together, these analyses provide an integrated perspective on EOP performance, catchment-scale water quality dynamics, and ecological risk, supporting ongoing optimisation of Watercare's TMP and future adaptive management strategies.

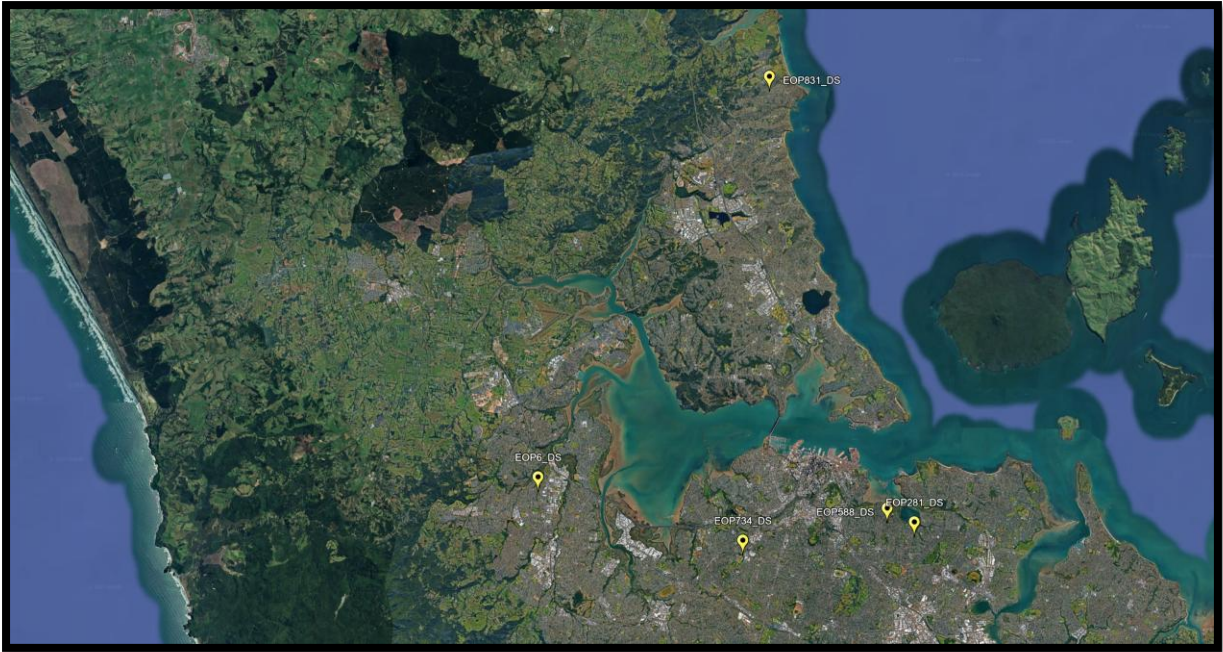


Figure 1: EOP locations

2. General assessment of time-series water quality

The continuous water quality data and rainfall for each EOP (upstream and downstream locations) is presented in Figure 2 below.

The continuous records show clear, repeatable hydrochemical responses to rainfall that are consistent with a mix of first-flush dilution, mobilisation of urban contaminants, and, at times, signals characteristic of wastewater influence. Across paired upstream (US) and downstream (DS) sites, these responses manifest within hours of rainfall onset and evolve through the rising and falling limbs of the hydrograph.

During high-intensity rainfall, conductivity (EC) and pH at both upstream and downstream sites typically drop sharply. This behaviour reflects first-flush dilution with low-alkalinity, low-ionic rainwater/stormwater rapidly mixing with baseflow, depressing EC and slightly acidifying the water column. The magnitude and duration of these troughs vary with antecedent conditions (catchment saturation and storage within the piped network) and local buffering capacity. Notably, there are also events in which EC rises during rainfall, sometimes at both sites, but particularly at downstream sites. Such EC increases imply the introduction of solute-rich water into the channel, which in urban settings likely originates from contaminant-laden stormwater (e.g., roadway runoff) or wastewater. The spatial expression of this response provides additional information on the potential input sources, EC increases at the downstream sites, especially when absent upstream, point to additional inputs between the sites and possible EOP discharges.

Temperature at all monitoring locations exhibit expected diel and seasonal variability, however the time series also show episodic warming corresponding with rainfall. This is typical of urban catchments where runoff is heated on impervious surfaces and roof materials before being conveyed rapidly to the stream. These short, warm pulses can transiently lower oxygen solubility and, when they coincide with organic or ammoniacal loading, can compound stress on aquatic biota.

In many events, dissolved oxygen (DO) increased at both sites during the initial phase of rainfall due to enhanced turbulence and reaeration which is consistent with a first-flush effect. However, there are clear exceptions where DO falls at the downstream sites during or shortly after rainfall. This could be a result of the following two possible mechanisms; the release of low-oxygen water that has stagnated in the piped network before an overflow, and/or the discharge of wastewater or stormwater with a high biochemical oxygen demand. When significant downstream DO drops coincide with rapid increases in EC, the evidence points more toward wastewater influence than simple dilution or stormwater discharge. The depth of the DO sag and the time to recover toward pre-event baselines provide additional insight into the strength and persistence of these episodes.

Turbidity is highly event-driven and responds strongly to rainfall at both upstream and downstream sites, reflecting mobilisation of fine sediments and in-channel resuspension. While many events affect the upstream and downstream sites similarly, there are notable episodes where downstream sites register larger and/or more prolonged turbidity peaks than upstream site. This pattern suggests either a particulate-rich discharge from the EOP or additional overland inputs between the monitoring sites.

Overall, the timeseries data indicates a dominant first-flush dilution signature (EC drop, pH drop, DO increase, turbidity increase) during many storms, punctuated by episodes, particularly evident at downstream sites, where EC increases and DO decreases occur in tandem and turbidity is amplified. The latter pattern is consistent with intermittent inputs from the piped network. This continuous monitoring approach provides a sound basis to develop automated systems for distinguishing stormwater-dominated responses from probable wastewater influence and for targeting subsequent field investigation. These multivariate patterns were subsequently used to develop a preliminary EOP discharge event detection and ecological risk assessment model.

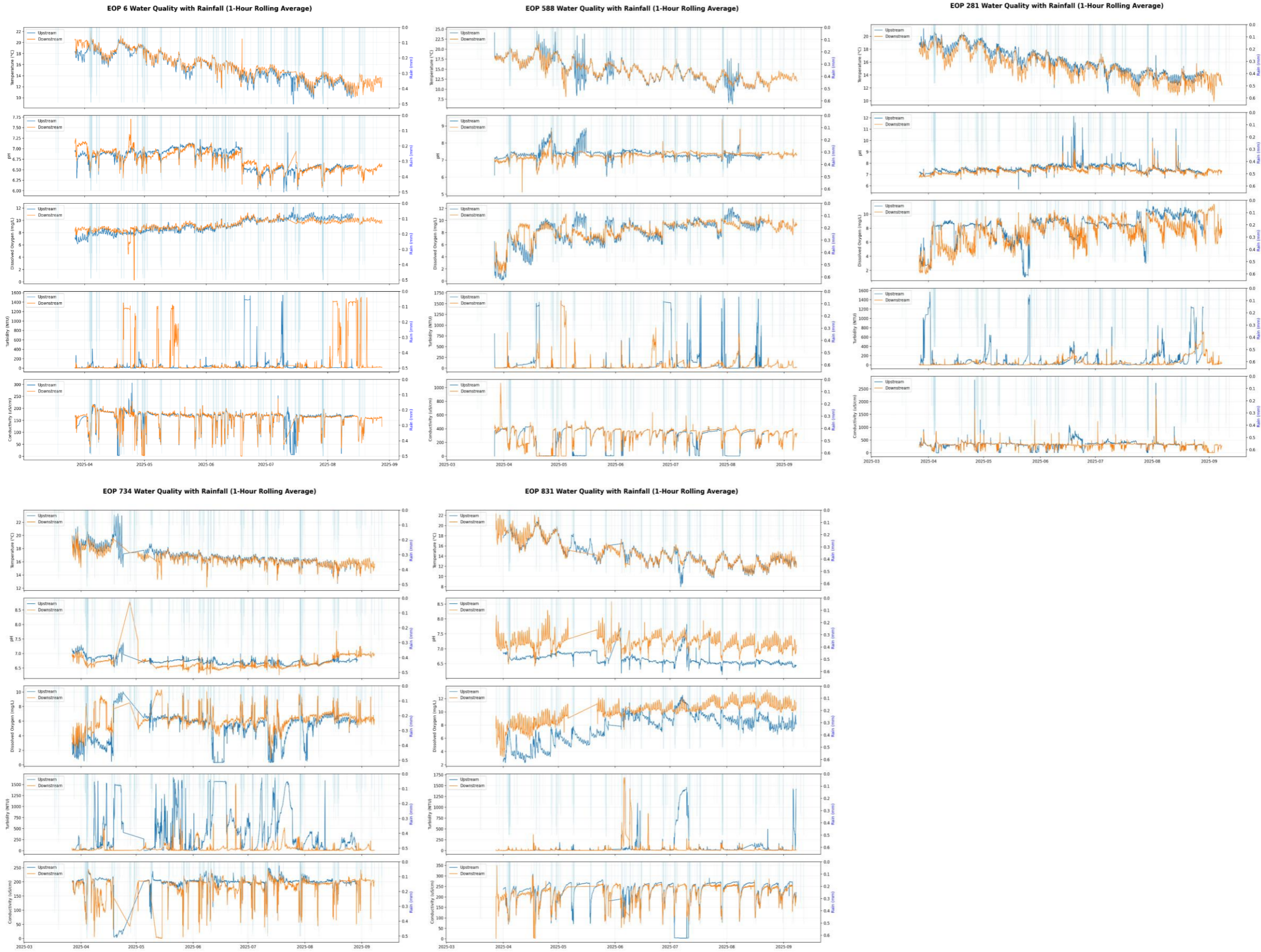


Figure 2: Continuous water quality data & rainfall for all EOP location

3. Water quality compliance assessment

Figure 3 below shows the water quality compliance heatmaps for all EOP monitoring locations. The compliance assessment was based on the percentage of each month that the parameters exceeded the default parameter ranges, adapted from ANZECC guidelines and national datasets. A composite compliance score was calculated for each monitoring location that aggregates the parameter specific compliances percentages into a single result. The following parameter specific ranges were used in the assessment:

Temperature range: 12-18°C

pH range: 6.5-8.0

Dissolved oxygen range: >5.0 mg/L

Turbidity range: <10 NTU

Conductivity range: 300-800 µS/cm

Across the network, composite compliance is within the ~72 - 78% range, led by EOP 6 (~78.5%) and EOP 831 (~77.5%), followed by EOP 281 (~75.8%), EOP 588 (~74.7%), and EOP 734 (~72.7%). Parameter behaviour is strongly ordered with temperature and pH having the highest compliance. Temperature expectedly had higher exceedances (> 20.0°C) during the summer months. pH had episodic exceedances (≤ 6.5 or ≥ 8.0) during mid-winter which is likely linked to increased rainfall and network flushing. Conductivity (EC) was generally good but seasonally sensitive with periodic event-based exceedances (≤ 50.0 or ≥ 400.0 µS/cm). Dissolved oxygen (DO) is variable with lows during warmer periods, likely due to increased stagnation and in-stream respiration, however event-based DO depressions (< 5.0 mg/L) were observed. Turbidity regularly exceeded the 10 NTU threshold at all monitoring sites however, the threshold is considered conservative for heavily urbanised systems.

The compliance assessment resulted in EOP 6 upstream and downstream composite scores being virtually identical (78.7% vs 78.3%), as such the asset was assessed as a relatively low-risk wastewater node suggesting limited chronic input. Event based turbidity exceedances and occasional temperature breaches were noted and attributed to the reach characteristics and catchment inputs.

EOP 588 shows near-parity between upstream and downstream sites with moderate DO ($\approx 79 - 85\%$), comparatively better turbidity than other EOPs ($\approx 16 - 26\%$), and poorer conductivity compliance during warmer periods. The warm-season pattern consisting of a rise in EC exceedances coupled with DO stability at both sites points primarily to solute-rich urban inflow during lower baseflows and elevated temperatures, with intermittent potential wastewater discharge. Given the small composite difference (DS $\approx 75.2\%$ vs US

≈74.1%), the two sites can be treated as equivalent except for periods where co-signals indicate a downstream-specific discharge that warrant cross referencing with EOP overflow triggers.

EOP 734 has a higher downstream composite score compared to the upstream location (~74.6% vs 70.4%). The upstream turbidity compliance is extremely poor (≈1.6%), and DO compliance weakens during warmer periods at both the upstream and downstream sites. The downstream improvement suggests mixing or reach-scale attenuation that blunts exceedances, but the underlying constraint remains persistent sediment and/or particulate loading which could amplify the impacts of any wastewater discharges. The downstream site also shows more frequent pH breaches despite excellent upstream pH compliance, which could indicate localised inputs between the two sites and/or discharges from the EOP.

EOP 831 is the best overall performer, with the highest composite scores (74 – 81%) and the largest downstream advantage ($\Delta \approx +6.9\%$). Upstream pH issues during wet months and wet-season turbidity exceedances are present but appear well attenuated downstream, implying effective mixing and limited persistence of events that depress compliance.

EOP 281 shows a consistently higher downstream compliance (~+5.2%) however turbidity compliance varies from (≈9 – 25%). The pattern suggests greater upstream loading or variability that is partially damped downstream. Further investigation into localised inputs and upstream sediment source tracking is needed at this site.

The macroinvertebrate community index (MCI) scores for all EOPs were largely below 71, with the majority of sites scoring below 60. This is indicative of poor ecological health and organic enrichment. The diatom indices identified EOP 281 and EOP 588 as the poorest condition sites. This result aligns with the water quality compliance scores that also identified EOP 281 and EOP 588 as worst performing sites.

Overall, turbidity is the dominant physical water quality stressor for aquatic life across sites. Elevated and prolonged turbidity reduces light for periphyton, smothers benthic habitats, abrades gills, and disrupts visual feeding. Tracking the duration of exceedances and the magnitude of high-end events, alongside downstream-to-upstream peak ratios, will help distinguish catchment-wide sediment pulses from overflow-related inputs.

Warm weather dissolved oxygen (DO) minima and episodic crashes pose the second major risk to biota. Pronounced DO sags increase the probability of sub-lethal stress and acute hypoxia for fish and macroinvertebrates, especially at higher temperatures when oxygen demand is elevated and solubility is lower. Temperature and pH largely meet targets at most sites but the thermal impacts from heated stormwater are still present.

The effects of localised attenuation processes and diffuse inputs entering the waterway between the upstream and downstream monitoring locations should be assessed in greater detail. This will provide additional diagnostic capabilities to isolate the impacts from the EOPs.

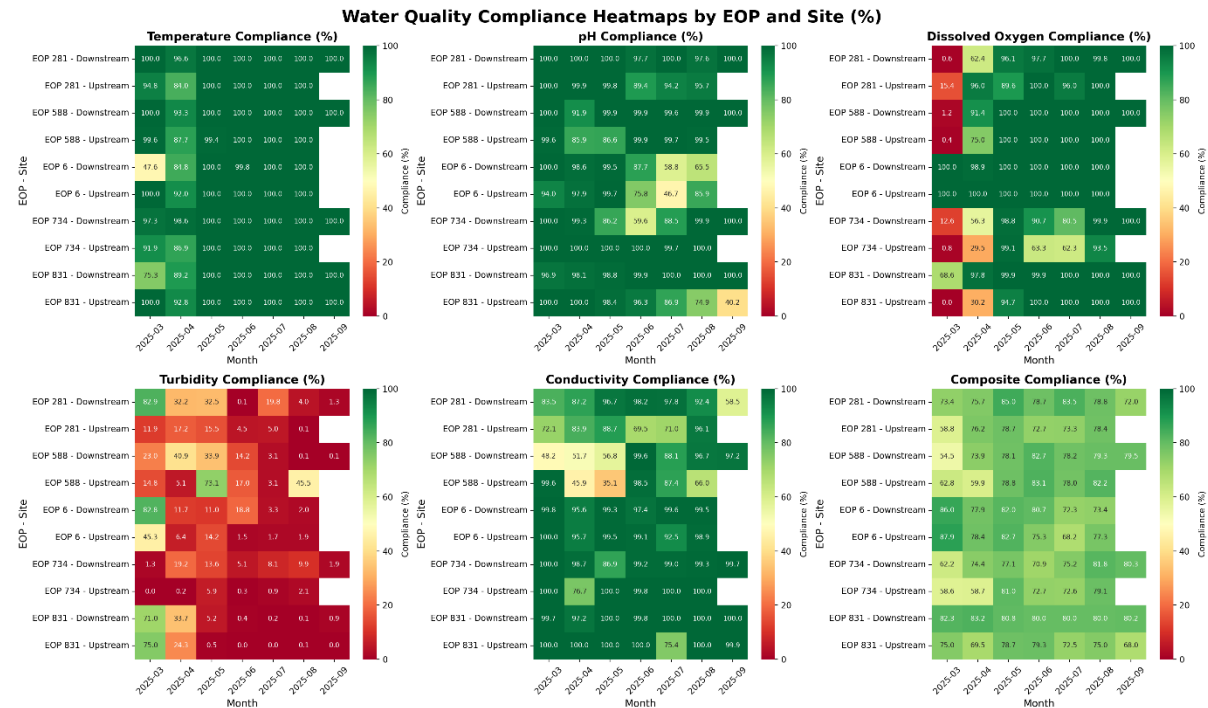


Figure 3: Water quality compliance heatmaps for all EOP locations

4. Rainfall sensitivity analysis

An assessment of water quality sensitivity to rainfall was done to better understand site specific hydrology and refine the potential EOP overflow dynamics (Figure 4). Rainfall data was sourced from representative Auckland Council monitoring stations (Henderson, Waiatarua, Mt Albert & Torbay) within the sub-catchment of each EOP.

The rainfall analysis was categorised into four classifications based on the distribution of rainfall: Dry (0 mm), Minor rain (0 – 0.49 mm), Moderate rain (0.49 – 0.50 mm), and Heavy rain (>0.50 mm). Although the sample sizes are heavily skewed toward dry and heavy conditions, the categories are sufficient to highlight systematic differences between the upstream and downstream responses and to identify obvious site-specific anomalies that warrant further investigation.

The conductivity rainfall relationship shows typical first-flush behaviour with values generally decreasing with rain due to dilution. The strong upstream sensitivity provides a reliable control for detecting potential downstream discharge events. Aligning the downstream windows to the lag-shifted upstream control may be required for EOP locations with large distances between upstream and downstream monitoring sites.

Dissolved oxygen generally increases during rainfall owing to turbulence and reaeration, and the upstream site again shows the stronger positive response in 3 of the 5 EOPs. This points to physical aeration dominating the immediate storm signal in the control reach. Potential wastewater discharge can be identified during events where downstream dissolved oxygen sharply decreases while EC spikes rapidly. In practice, pairing DO with EC responses at the downstream site during wet windows remains an efficient way to flag probable wastewater episodes against a backdrop of catchment-wide reaeration.

pH changes are small network-wide (typically <3%), but the downstream site shows the greater rainfall sensitivity in 3 out of the 5 EOPs. This reversal (relative to EC and DO) potentially reflects the chemistry of piped inflows and mixing below the EOP where small additions of low-alkalinity water (or acidic urban runoff) can shift pH to a greater extent at the downstream reach. Due to the modest absolute shifts, pH on its own is rarely diagnostic however its value in event attribution comes from coherence with EC and DO.

Turbidity is the most variable parameter under rainfall, with upstream showing the larger response in 3 of the 5 EOPs but two sites favouring the downstream location. EOP 588 exhibits the most dramatic turbidity increase upstream, which is indicative of upstream and/or localised sediment sources dominating storm events and significant attenuation prior to the downstream monitoring location. By contrast, EOP 281 and EOP 734 show the largest turbidity decreases during rain, indicating that at those sites either dilution or improved near-field hydraulics is reducing measured turbidity during wet windows.

Temperature tends to increase during minor rain at most sites which could be a seasonal/urban heat signature associated with warm runoff from impervious surfaces. In 3 of the 5 EOPs the downstream site shows the greater temperature response, which is expected where piped networks and/or the EOP convey relatively warm water quickly to the channel. In heavier rain the picture is mixed as advection, shading, and air–water exchanges compete. Nevertheless, downstream-skewed temperature sensitivity reinforces the case for seasonally tuned downstream alerting and for interpreting downstream DO behaviour in the context of temperature-driven solubility changes during storms.

These multivariate patterns indicate that upstream sites are generally more sensitive to rainfall for conductivity and dissolved oxygen which is indicative of the classic dilution and reaeration signals of first flush events. Downstream sites are more sensitive for pH and temperature, reflecting the potential chemistry and thermal character of piped inflows and potentially EOP discharges. Turbidity is split with some EOPs (e.g., 588) displaying upstream-dominated storm responses consistent with catchment sediment mobilisation, while others (e.g., EOP 6 under minor rain) show downstream-weighted spikes that implicate sources between the two sites (EOP discharge or overland inputs). Where the downstream sites track the upstream storm signature the event is likely catchment-dominated. Where downstream signatures diverge, EOP influence and/or

intervening sources are more plausible and should be cross referenced with EOP overflow triggers.

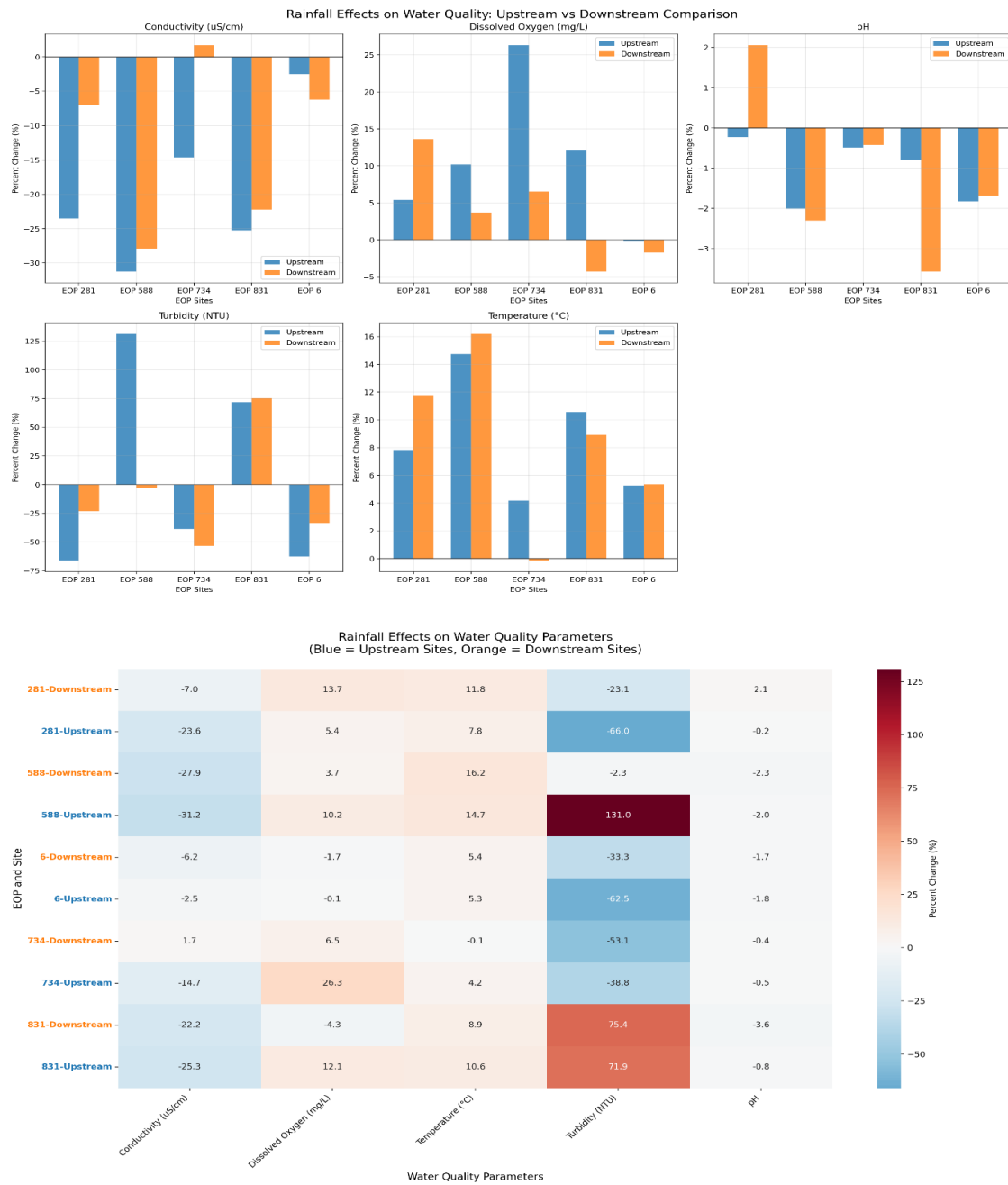


Figure 4: Rainfall sensitivity analysis for all EOP monitoring locations

5. Automated Event Detection and Ecological Risk Characterisation

The continuous water quality data and comparative multivariate analyses discussed above (Figures 2, 3 & 4) lead to the development of a preliminary automated detection and classification model for wastewater discharge episodes.

The modelling framework uses a Differential Dual-Signal Rule (DDSR) that identifies distinct episode signatures characterised by differential electrical conductivity (dEC) and dissolved oxygen (dDO), coupled with rainfall data to classify wet and dry weather conditions. An Ecological Risk Score (ERS) was derived based on a composite index incorporating all the water quality parameters (EC, DO, Turbidity, Temperature & pH), event intensity, event magnitude, event duration, and rainfall amplification. Non-compensatory safeguards for DO (< 4.0 mg/L), pH (< 6.0 or > 9.0) and turbidity (\geq 100 NTU) were used to automatically escalate the ecological risk to high if the respective thresholds were breached during a detected episode. This metric provides an integrated measure of ecological risk that could facilitate management prioritisation across sites.

5.1. Site-Specific Episode Patterns and Ecological Risk Outcomes

EOP 281 presents the highest genuine ecological risk among all sites, with a mean risk score of 0.194 and a predominance of high-risk episodes (five of eight) (Figure 5). The summer diatom indices provided by AECOM also identified EOP 281 as the most degraded site. The detected episodes are typically short to moderate in duration (mean 7.25 hours) but frequent and exhibit clear DDSR-type patterns, where conductivity and dissolved oxygen anomalies co-occur. Dissolved oxygen frequently dropped below 4.0 mg/L (minimum 3.30 mg/L), signalling acute hypoxic stress for aquatic organisms, while conductivity deviations (mean 43.6 μ S/cm; peak 1,025 μ S/cm) suggest pulses of concentrated wastewater or other contaminants. Minimal rainfall (only 1 mm across all episodes) confirms that these are likely point-source discharges rather than stormwater-driven events. The combination of acute oxygen depletion and high-intensity conductivity fluctuations suggests significant episodic ecological stress with potential for fish kills and macroinvertebrate mortality.

EOP 588 exhibits moderate overall risk (mean risk score 0.169) but with substantial variability across its 15 episodes. The summer diatom indices assessment done by AECOM verified EOP 588 as the second most degraded site. Ten episodes were classified as high risk, largely due to turbidity exceeding the \geq 100 NTU non-compensatory safeguard trigger (Figure 5). Average episode duration was lengthy (37.1 hours), with some exceeding 197 hours, indicating chronic sediment disturbances rather than isolated discharges. Turbidity values were extremely high although dissolved oxygen remained stable, suggesting that the elevated turbidity originated from inorganic

sediment sources such as runoff or bank erosion rather than organic wastewater inputs. A single episode breached the < 6 pH non-compensatory safeguard trigger which coincided with a strong dEC and dDO exceedances, this episode is likely due to a discharge or point source contamination.

While the turbidity-driven events legitimately represent ecological stress through light attenuation, habitat smothering, and sediment deposition, the automatic escalation of all turbidity-driven episodes to the high category may overstate their ecological risk. Given this context, EOP 588's overall risk ranking is moderated to reflect a significant but secondary priority relative to the acute, biologically impactful episodes at EOP 281.

All five episodes at EOP 831 were automatically classified as high risk because turbidity exceeded the ≥ 100 NTU non-compensatory safeguard trigger (Figure 5). However, these short-duration episodes (average 3.25 hours) occurred under dry-weather conditions, with no rainfall. The consistently high turbidity at this EOP is likely due to localised site characteristics such as low water level, mobile substrates, bank side erosion, or catchment inputs rather than acute contamination events. Temperature deviations were higher than other sites (mean +0.66°C; max +3.5°C), but not extreme enough to indicate sustained thermal stress. This elevated temperature deviations likely reflects the shallow stream depth and direct solar heating rather than thermal pollution.

Consequently, while all events met the formal high-risk criteria, this classification overestimates the true ecological risk. The site's short, localised, and likely non-toxic episodes suggest that EOP 831 represents a lower actual ecological threat compared to EOPs 281 and 588. This result was confirmed through the biological survey data.

No DDSR-positive episodes were detected at EOP 734 or EOP 6 within the analysis window. This indicates stable conditions and effective containment under current monitoring thresholds. Ecological risk at these sites is considered low, though ongoing surveillance remains essential to confirm stability and detect potential emerging stressors. Additional sensitivity analysis is warranted to ensure that subtle or short-lived discharges are not being masked by conservative threshold settings.

Wet-weather episodes were a major driver of elevated DDSR exceedances at EOP 588 and EOP 281, consistent with assumed overflow pathways being activated during rainfall events. Episodes characterised by elevated conductivity and reduced dissolved oxygen impose both acute and chronic ecological pressures. Acute storm-linked episodes may cause immediate physiological stress or mortality in sensitive taxa, while chronic dry-weather exceedances could reduce community resilience through repeated sublethal exposure. The cumulative effect across sites indicates a mosaic of stress regimes, with EOP 281 and EOP 588 contributing the largest share of total ecological risk due to sustained exceedance time and recurrence frequency.

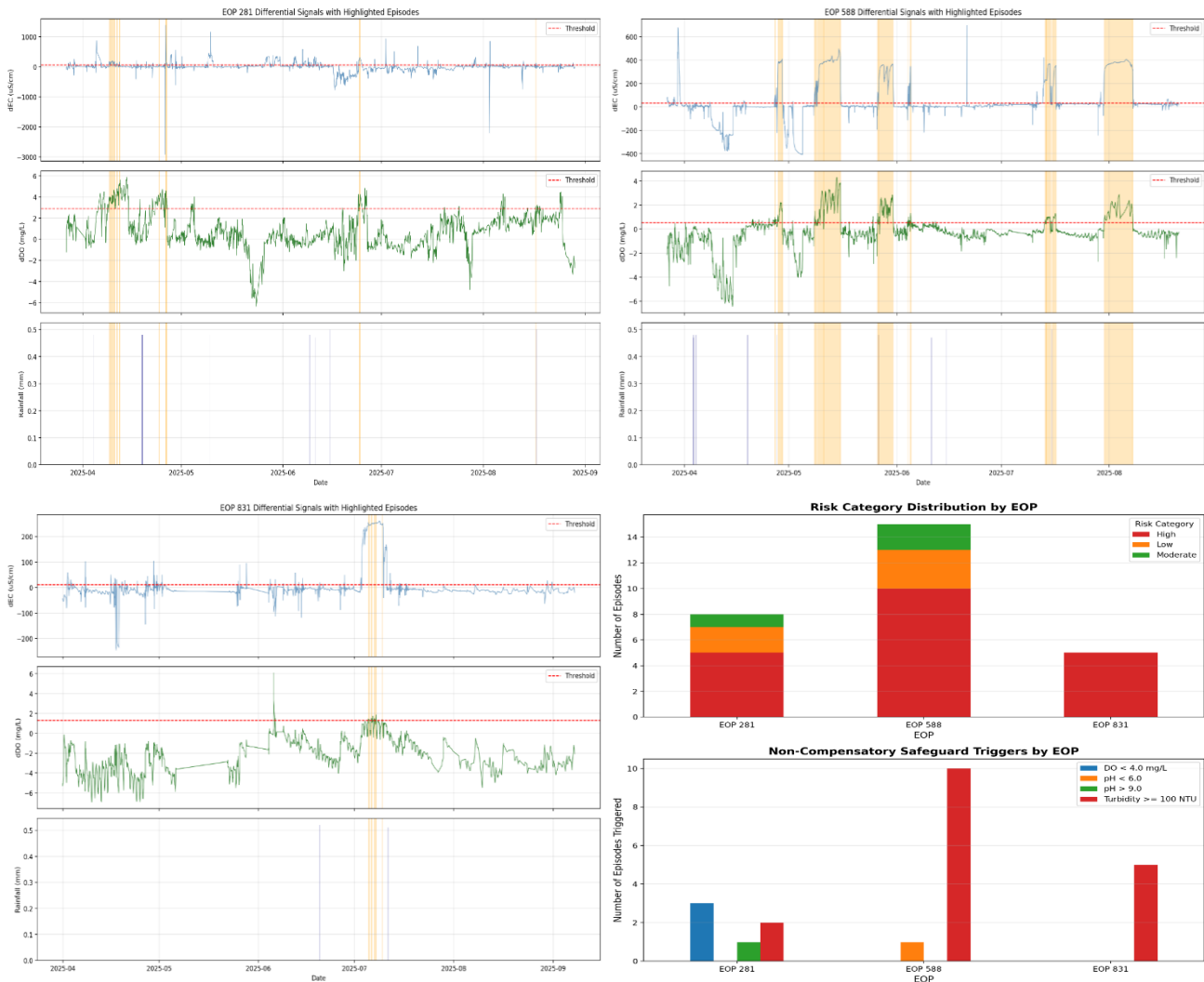


Figure 5: Detected episodes, ecological risk distribution and non-compensatory safeguard trigger exceedances

5.2. Operational and Management Implications

The preliminary model results demonstrate the ability to detect state changes indicative of contamination episodes. Assuming the model accurately identified potential discharge events, several operational and management implications emerge for targeted mitigation and system improvement across the monitored sites.

EOP 281 and EOP 588 represents the highest priority for intervention due to their combination of storm-driven overflows and persistent dry-weather episodes. Effective management at these sites require a dual strategy addressing both hydrological and operational drivers. Source tracing is also essential to identify the origins of high-conductivity pulses, which are indicative of concentrated wastewater discharges or batch-type inflows. Management efforts should also prioritise dry-weather source control as several ecologically significant episodes were recorded during dry weather. This includes investigating localised discharge pathways, assessing the timing of site operations, and evaluating possible interactions with groundwater and wider catchment inflows. EOP 734 and EOP 6 should remain under routine surveillance. These sites

currently show no qualifying discharge episodes, indicating stable conditions. Continued baseline monitoring and refining threshold sensitivity in future model iterations is recommended to further enhance detection capabilities without increasing false-positive rates.

The continuous monitoring and automated modelling framework provide a statistical mechanism for identifying, classifying, and prioritising wastewater/contaminant discharge episodes across engineered overflow points. The results identify EOP 281 and EOP 588 as key sites of concern for both acute and cumulative impacts. EOP 831 represents a secondary but notable risk due to elevated turbidity. Collectively, the findings highlight the value of developing high resolution site-specific models that can inform both hydrological mitigation and asset optimisation to reduce overflow frequency, duration, and ecological risk.

5.3. Model Optimisation and Future Development

The performance of the automated Differential Dual Signal Response (DDSR) detection and Ecological Risk Scoring (ERS) framework demonstrates a strong foundation for real-time event identification and ecological risk prioritisation. The model successfully distinguished between acute, short-duration contamination events and chronic, extended disturbances, providing valuable insights into both operational performance and ecological vulnerability. However, continued refinement and validation are required to enhance precision, reduce false positives, and ensure ecological relevance across diverse hydrological and environmental conditions.

The following key areas are identified for model optimisation and future development:

1. Enhanced Episode Validation and False Positive Reduction

To improve diagnostic accuracy, each identified episode should be analysed in greater detail to differentiate true contamination events from artefacts or natural fluctuations. Episodes with extended durations, particularly those associated with stable or ambient conditions, may represent background variability rather than genuine wastewater discharges. A systematic post-processing review should be implemented to flag and remove these false positives, using corroborating parameters such as rainfall data, flow rates, and diurnal water-quality patterns. This refinement will reduce unnecessary alerts and increase model confidence for operational deployment.

2. Selection of Controlled Test Sites for Model Calibration

Further development should include applying the model at dedicated test sites where known discharges or overflow events can be monitored under controlled or well-documented conditions. These validation environments will enable the refinement of detection logic, confirmation of response consistency across variable hydrological regimes, and evaluation of model transferability to other catchments. Controlled testing

will also facilitate a quantitative assessment of detection accuracy, including sensitivity, specificity, and event classification precision.

3. Integration of Telemetered Overflow Triggers

Incorporating real-time telemetry data from overflow sensors or SCADA systems will greatly enhance the model's ability to distinguish verified overflow events from background anomalies. Direct confirmation of overflow occurrences will enable dynamic calibration of DDSR thresholds and allow for more accurate linking of discharge events to rainfall intensity, duration, and antecedent moisture conditions. This integration would also provide an important feedback loop, enabling automated calibration of detection thresholds based on verified overflow activity.

4. Incorporation of Biological Monitoring for Ecological Validation

To link model outputs to ecological outcomes, the inclusion of biological monitoring data such as macroinvertebrate indices, chlorophyll-a measurements, diatom assemblages or periphyton growth responses will be critical. Correlating ERS classifications with observed ecological responses will provide ground-truth validation and enable the refinement of risk thresholds to reflect real-world biological sensitivity. This integration will enhance the ecological robustness of the ERS framework and help translate model predictions into environmental management actions.

5. Calibration of Site-Specific Thresholds

Site-specific threshold calibration is needed for improving model precision across varying hydrological and catchment contexts. Thresholds for parameters such as dissolved oxygen (DO) and electrical conductivity (EC) should be adjusted based on empirical data from confirmed discharge events and site-specific water-quality baselines. This approach will reduce overgeneralisation and ensure that anomalies are interpreted relative to local conditions rather than fixed global thresholds. The inclusion of dynamic thresholding that adjusts seasonally to account for natural shifts in DO and EC baselines will further enhance temporal sensitivity and adaptability.

6. Integration of Non-Compensatory Safeguards for Temperature and Conductivity

To improve the model's sensitivity to episodic but ecologically significant anomalies, non-compensatory safeguards should be added for temperature and conductivity. Temperature and conductivity were not included as non-compensatory safeguards in the initial model development due to inherent spatial variability between the upstream and downstream monitoring locations. At several EOPs, the two sites exhibit distinctly different physical and thermal characteristics (e.g., where the upstream sensor is located within a shaded natural reserve while the downstream site lies in a shallow, open concrete channel). These contrasting environments naturally generate temperature differentials that are unrelated to discharge activity, making the application of a uniform

safeguard threshold inappropriate. Similarly, conductivity showed broad variability across sites, influenced by background conditions and variable flow regimes.

Future model refinements should incorporate site-specific non-compensatory safeguard values for temperature and conductivity. These should be calibrated using baseline monitoring data and validated against confirmed discharge events. Establishing customised safeguard thresholds for each EOP will enhance model accuracy and strengthen the ecological sensitivity of the model while preserving the integrity of event detection across diverse monitoring environments.

7. Refinement of Rainfall Modifiers Using Hydrological Modelling

Current rainfall modifiers within the ERS framework should be refined through catchment-scale hydrological modelling. Integrating rainfall-runoff simulations will improve the model's ability to account for stormwater dilution, infiltration rates, and antecedent moisture conditions, thereby improving discrimination between storm-driven and point-source discharges. This enhancement will also allow for event-based calibration, where rainfall magnitude and timing are explicitly linked to expected overflow responses and ecological risk amplification.

8. Sensitivity Assessment of Monitoring Site Configuration

Model sensitivity should be systematically evaluated against the spatial arrangement and distance between upstream and downstream sensors. The hydraulic and morphological characteristics of the reach separating these points such as channel slope, residence time, and mixing potential directly influence the detection signal. By quantifying this relationship, the model can be adjusted for optimal sensor spacing and improved accuracy in detecting small or short-lived discharge events. This refinement will also inform standardised deployment protocols for future monitoring sites.

9. Expansion of Event Tagging for Hydrological Context and Recovery Analysis

Future iterations of the model should expand event tagging to capture antecedent moisture, hydrological context, and recovery duration following an event. By tracking how rapidly water quality parameters return to baseline after an episode, the model can assess system resilience and quantify the ecological recovery potential. This enhancement will provide a more comprehensive understanding of both the intensity and ecological persistence of discharge impacts, supporting long-term risk management and adaptive infrastructure planning.

10. Incorporation of Uncertainty-Aware and Human-in-the-Loop Learning

To further enhance model robustness and adaptability, the next stage of development should integrate an uncertainty-aware, human-in-the-loop learning framework. This approach would enable the model to quantify confidence levels for each DDSR detection and ERS classification, allowing low-confidence or ambiguous events to be flagged for

expert review rather than automatically categorised. Incorporating active learning loops allows analysts to review uncertain or novel event patterns and provide feedback, which can then be used to retrain and fine-tune the model periodically. To complement this, continuous drift detection should monitor changes in baseline conditions such as seasonal DO shifts and altered site hydraulics. Integrating uncertainty estimation, expert feedback, and adaptive recalibration will transform the system from a static detection tool into a self-improving, intelligent decision-support model, capable of maintaining long-term reliability and ecological relevance.

6. Comparison with Biological Assessments

The results from the AECOM summer diatom survey and macroinvertebrate community index (MCI) datasets (summer & winter) as well as the cotton strip assay (CSA) (summer & winter) were compared with the continuous water quality assessment and model-derived ecological risk classifications. This was done to assess the alignment between the continuous water quality monitoring and biological indicators.

The MCI values across both summer and winter surveys classify all monitored EOP sites within the “poor” to “fair” ecological condition range. The lowest MCI scores occurred at EOP 281 (US = 55.0; DS = 60.0) which corresponds to the modelled ecological risk and EOP 6 (US = 48.9), consistent with a degraded macroinvertebrate community typical of urbanised and hydraulically modified waterways.

Although these values indicate degraded ecological health, the MCI lacks the temporal resolution to identify episodic wastewater discharges or short-term water quality fluctuations. The uniformly low scores likely reflect the influence of altered flow regimes, poor habitat structure and substrate homogenisation, rather than discrete contaminant stress, explaining why all sites appear similarly impacted despite differing water-quality conditions in the continuous monitoring and diatom datasets.

The summer diatom analysis provides finer resolution of organic enrichment gradients and aligns closely with the modelled ecological risk outcomes. The diatom indices clearly identify EOP 281 and EOP 588 as the most degraded sites. EOP 281 was classified as heavily contaminated (SPI = 5.3 upstream – 7.6 downstream), while EOP 588 exhibited significant organic pollution (SPI = 9.1 upstream – 11.9 downstream). In contrast, EOP 6, 734, and 831 were rated as good to moderate, indicating minimal to moderate organic influence.

These findings strongly validate the model’s identification of EOP 281 and 588 as the highest-risk sites, while also supporting the interpretation that EOP 831’s modelled high-risk classification (driven by turbidity safeguard triggers) was overstated, as its diatom indices indicate high ecological quality (SPI 16.8, “High”).

Across all three biological and model-based indicators, there is strong convergence in the relative ranking of ecological condition among the monitored EOP sites. EOP 281 consistently exhibits the lowest ecological quality, characterised by frequent high ecological risk events, diatom signatures indicative of heavy contamination, low MCI scores, and elevated CSA decomposition rates.

EOP 588 shows a similar but less severe pattern, with moderate enrichment indicated by diatom SPI values, mid-range MCI scores, and moderate CSA losses. This suggests a site affected by a combination of sediment and organic stress, consistent with the continuous water quality based classification of recurring but less acute disturbance events.

EOP 6 and 734 all maintained good to moderate SPI classes, higher MCI scores, and inconsistent seasonal CSA response between upstream and downstream sites. These findings indicate stable baseline conditions and low ecological risk, aligning with the continuous water quality modelled interpretation of minimal disturbance at these locations.

The only notable misalignment lies in the modelled classification of EOP 831 as high risk. As noted in the modelled outputs, this is a result of the non-compensatory turbidity safeguard thresholds, which triggered automatic risk escalation. The diatom index at EOP 831 (downstream SPI 16.8, class A/B = “High”) and CSA data (showing limited downstream change) both indicate good ecological integrity. When the non-compensatory turbidity safeguard triggers are minimised, the modelled results align with the biological assessments.

The integration of biological datasets validates and confirms that the continuous monitoring model accurately reflects ecological condition. While MCI data provide a useful baseline for catchment condition, their diagnostic power is limited in urban systems dominated by physical reach alterations. The diatom and CSA results provide finer discrimination, identifying potential wastewater-related stress gradients and validating model outputs. The strong agreement between the continuous water quality and diatom data at EOP 281 and 588 demonstrates that the automated DDSR/ERS approach captures genuine ecological risk patterns. The discrepancy at EOP 831 highlights the need for site-specific threshold calibration and biological validation to refine model accuracy.

Collectively, this comparison supports the conclusion that the pilot continuous monitoring and modelling framework offers a rapid, sensitive, and ecologically meaningful complement to traditional biological surveys, capable of contextualising discrete sampling within a dynamic temporal framework.

7. Conclusion

The continuous water quality monitoring pilot at the five engineered overflow points (EOPs) has provided a high-resolution dataset that enhances the understanding of urban waterway health and episodic discharge events. The study has revealed distinct temporal and spatial patterns in water quality response to rainfall and potential overflow activity. The development and preliminary application of the automated DDSR and ERS model demonstrated the ability to identify potential discharge episodes, classify their severity, and quantify ecological risk.

The preliminary model identified EOP 281 and EOP 588 as the highest ecological risk sites, which aligns with the summer diatom indices, and in part the seasonal CSA results, from AECOM's assessments. Both biological and continuous water quality datasets indicate these sites are experiencing significant and recurrent stress which confirms the validity of the automated approach. EOP 831 showed elevated turbidity and apparent high risk however, contextual analysis revealed this to be largely a product of localised site characteristics and safeguard-trigger inflation rather than genuine discharge related impacts. This was confirmed by the high site condition described by the summer diatom indices, MCI scores and CSA.

No DDSR episodes were detected at EOP 6 and EOP 734 which indicates these sites present a low ecological risk, further refinement could result in the detection of more subtle events/impacts. The "good" to "moderate" diatom SPI classification confirm a lower ecological risk at these sites.

The macroinvertebrate community index (MCI) categorised all EOPs as "poor," offering little resolution for distinguishing the differing stress regimes across the network. This limitation is likely due to habitat degradation being the primary driver rather than water quality. The continuous monitoring and automated modelling approach overcomes this restriction by providing real-time temporal resolution and the ability to integrate episodic discharge behaviour into ecological risk assessments.

The convergence between the continuous water quality, diatom, and CSA results confirms the reliability and ecological relevance of the continuous monitoring approach. The DDSR/ERS framework successfully identified the same high-risk sites as the summer diatom assessment, but with the added benefit of real-time, high-frequency detection and the ability to quantify the timing and duration of events. This pilot demonstrates that continuous monitoring coupled with automated ecological risk modelling can provide rapid, scalable, and ecologically validated assessments of urban waterway health. It bridges the gap between traditional discrete sampling and dynamic, event-driven processes, enabling earlier detection of contamination episodes, providing temporal context to biological surveys, and supporting adaptive, data-driven management of wastewater overflows and catchment condition.

8. Appendix: Detected Episode Characteristics

EOP	Start Time	End Time	Duration (hours)	Peak dEC	Peak dDO	Mean dEC	Mean dDO	DDSR Severity	Ecological Score	Risk	Ecological Level	Risk	Rainfall Category	Total Rainfall per Episode (mm)
EOP 281	9/04/2025 0:30	9/04/2025 8:30	8	174.95	4.01	121.26	3.78	166827.71	0.26		Moderate		Dry	0
EOP 281	9/04/2025 13:15	10/04/2025 16:15	27	188.97	4.64	145.35	3.91	0.72	0.17		High		Dry	0
EOP 281	11/04/2025 8:30	11/04/2025 11:30	3	119.35	4.78	82.25	4.57	0.51	0.18		High		Dry	0
EOP 281	12/04/2025 3:00	12/04/2025 5:45	2.75	154.72	5.28	96.92	5.18	0.56	0.27		High		Dry	0
EOP 281	24/04/2025 4:15	24/04/2025 5:45	1.5	84.25	4.05	71.65	3.93	0.4	0.09		Low		Dry	0
EOP 281	26/04/2025 4:30	26/04/2025 13:30	9	1373.84	4.58	535.58	3.88	1.54	0.3		High		Dry	0
EOP 281	24/06/2025 5:15	24/06/2025 11:45	6.5	292.78	4.25	252.75	3.34	137011.12	0.26		High		Wet	1
EOP 281	17/08/2025 0:45	17/08/2025 1:00	0.25	114.87	3.03	113.48	2.97	0.31	0.01		Low		Dry	0
EOP 588	26/04/2025 22:45	27/04/2025 1:45	3	103.07	0.98	87.21	0.74	0.27	0.19		High		Dry	0
EOP 588	27/04/2025 19:45	29/04/2025 3:00	31.25	408.51	2.24	384.4	1.51	234624.12	0.41		Moderate		Wet	3.84
EOP 588	8/05/2025 8:15	8/05/2025 18:15	10	222.21	1.48	170.35	0.87	0.49	0.09		Low		Dry	0
EOP 588	9/05/2025 1:30	9/05/2025 2:00	0.5	221.69	0.57	218.03	0.55	0.29	0.1		High		Dry	0
EOP 588	9/05/2025 6:45	10/05/2025 22:15	39.5	381.29	3.19	333	2.03	0.85	0.18		High		Wet	3.84
EOP 588	11/05/2025 1:00	15/05/2025 19:15	114.25	495.94	4.31	402.84	2.62	1.09	0.32		Moderate		Dry	0
EOP 588	26/05/2025 10:00	26/05/2025 13:00	3	124.73	1.32	105.59	0.84	0.31	0.08		Low		Dry	0
EOP 588	26/05/2025 18:30	30/05/2025 20:00	97.5	365.52	2.84	299.37	1.85	84935.9	0.31		High		Wet	7.68
EOP 588	4/06/2025 4:00	4/06/2025 5:00	1	173.9	0.69	152.87	0.62	0.26	0.1		High		Dry	0
EOP 588	4/06/2025 19:30	4/06/2025 23:30	4	344.81	1.31	328.93	1.04	0.55	0.04		Low		Dry	0
EOP 588	13/07/2025 12:15	13/07/2025 18:15	6	231.86	0.79	230.28	0.63	0.44	0.04		High		Dry	0
EOP 588	13/07/2025 21:00	14/07/2025 22:15	25.25	368.08	1.04	337.84	0.94	0.7	0.07		High		Dry	0
EOP 588	15/07/2025 5:30	15/07/2025 6:15	0.75	174.53	0.65	173.21	0.6	0.26	0.04		High		Dry	0

EOP 588	15/07/2025 17:15	16/07/2025 16:45	23.5	354.33	1.31	292.85	0.97	67745.39	0.15	High	Dry	0
EOP 588	30/07/2025 13:00	7/08/2025 18:00	197	406.31	2.88	360.91	1.52	0.99	0.4	High	Dry	0
EOP 831	5/07/2025 11:45	5/07/2025 14:30	2.75	248.04	1.41	246.74	1.39	0.44	0.1	High	Dry	0
EOP 831	6/07/2025 6:30	6/07/2025 10:30	4	251.94	1.52	251.13	1.46	0.48	0.16	High	Dry	0
EOP 831	7/07/2025 5:30	7/07/2025 10:45	5.25	252.75	1.47	252.37	1.45	0.5	0.21	High	Dry	0
EOP 831	7/07/2025 16:45	7/07/2025 20:30	3.75	254.25	1.86	253.74	1.62	0.49	0.21	High	Dry	0
EOP 831	9/07/2025 15:00	9/07/2025 15:30	0.5	245.96	1.39	245.78	1.38	0.36	0.11	High	Dry	0



Targeted Monitoring Programme

Pilot for monitoring wastewater discharges to estuaries, basins and beaches

Prepared for
Watercare Services Limited

Prepared by
Tonkin & Taylor Ltd

Date
November 2025

Job Number
1090872.2000 v2



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Document control

Title: Targeted Monitoring Programme – Pilot for monitoring wastewater discharges to estuaries, basins and beaches					
Date	Version	Description	Prepared by:	Reviewed by:	Authorised by:
November 2025	1	Draft TMP Pilot monitoring report for client review	M. Tupe	M. Cameron	D. C. Miller
November 2025	2	Inclusion of winter PPCP results	M. Tupe	M. Cameron	D.C. Miller

Distribution:

Watercare Services Limited

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Executive summary

The Targeted Monitoring Programme (TMP) pilot was developed to assess the ecological health of marine and freshwater receiving environments in Auckland. This report delivers the marine component of the TMP, specifically estuaries, basins, and beaches, with a focus on the impacts of wastewater overflow discharges from Watercare Services Limited's (Watercare's) network. The TMP is required by Auckland Council (AC) Resource Consent R/REG/2013/3755.

This marine TMP pilot involved one year of monitoring at six representative coastal sites: estuaries (Motions Creek, Waterview), beaches (Coxs Bay, Curran Street) and basins (Hobson Bay, and Judges Bay). This report presents findings from environmental monitoring across the six coastal sites. The study assessed benthic macroinvertebrate communities, sediment oxygenation (RPD), and concentrations of heavy metals, nutrients, fluorescent whitening agents (FWAs), and Pharmaceuticals and Personal Care Products (PPCPs) in benthic sediments. Spatial and seasonal patterns are summarised as follows.

Macroinvertebrate diversity and evenness varied by site and season. Curran Street and Judges Bay consistently showed high diversity, indicating stable communities. In contrast, Motions Creek and Waterview exhibited low diversity, suggesting environmental stress. Winter generally supported more balanced communities, except at Motions Creek and Waterview, where summer conditions were more favourable.

RPD depths, indicating sediment oxygen levels, were shallower in winter across all sites, implying reduced habitat quality. Hobson Bay, Coxs Bay, Motions Creek, and Waterview recorded the shallowest RPDs (5 mm), while Motions Creek had the deepest (100 mm) in summer. On average, Curran Street measurements were low year-round, suggesting persistent low oxygenation across the site.

Heavy metal concentrations displayed clear spatial and seasonal patterns. Motions Creek and Coxs Bay had the highest concentrations of copper, zinc, cadmium, and chromium, often exceeding guideline thresholds, particularly in summer. These patterns suggest influence from wastewater, stormwater, and legacy landfill contamination. Waterview showed moderate metals, with some seasonal increases, while Curran Street was notable for elevated nickel, likely from road runoff given its proximity to the Harbour Bridge on-ramp. Judges Bay had elevated lead and mercury in both summer and winter samples, and Hobson Bay consistently had the lowest concentrations, indicating less anthropogenic input.

Nutrients and organic matter (nitrogen, phosphorus, organic carbon) were highest at Motions Creek and Waterview, with signs of eutrophication such as increased phytoplankton biomass. Waterview had the highest chlorophyll *a* and pheophytin in winter. Hobson Bay and Judges Bay had the lowest nutrient levels, indicating lower runoff or better flushing. Curran Street and Coxs Bay showed elevated nitrogen in summer and moderate organic carbon year-round.

FWAs, used as indicators of wastewater contamination, were highest at Motions Creek and Coxs Bay, with much lower concentrations recorded at all other sites, further supporting evidence of wastewater influence at these sites in particular.

Emerging Contaminants: A range of pharmaceuticals and personal care products (**PPCPs**) were detected in marine sediments, including caffeine and the primary metabolite of caffeine (1,7-Dimethylxanthine), a plasticiser (BPA), an antibiotic (penicillin G, clarithromycin, erythromycin-H₂O), antidepressant (fluoxetine), antiepileptic (carbamazepine), antifungal (miconazole), fungicide / antiparasitic (Thiabendazole), calcium channel blocker (diltiazem) and an antimicrobial agent (Triclocarban).

Motions Creek had the highest number of PPCPs present, with 11 different PPCPs detected, Waterview and Coxs Bay had six PPCPs present, Curran Street and Judges Bay, five PPCPs present, and Hobson Bay the least with three PPCPs present. Caffeine, Penicillin G and BPA were found at all sites. There was a higher number of detections in winter (31) versus summer (21) samples which may suggest different seasonal levels of exposure to wastewater overflows.

The ecological risks of PPCPs are not fully understood, but evidence suggests potential impacts on microbial communities, primary productivity, invertebrate and fish reproduction and behaviour, metabolic and physiological processes, respiratory health and food web dynamics.

Key patterns and implications:

- **Spatial heterogeneity:**
 - **Estuarine sites** (Motions Creek and Waterview) generally have elevated metals, nutrients, TOC and phytoplankton growth. The sites are generally muddy, and Motions Creek has high concentrations of FWA's and six PPCPs were present at Motions Creek and two at Waterview. Benthic macrofauna diversity results are low for both estuarine sites.
 - **Beach sites** (Coxs Bay and Curran Street) generally have elevated metals, nutrients, TOC levels and phytoplankton growth. Curran Street is muddier than Coxs Bay, and both sites had FWA's present and six PPCPs were found at Coxs Bay and three at Curran Street. Both beach sites have good benthic macrofauna diversity.
 - **Basin sites** (Hobson Bay and Judges Bay) generally have low concentrations of metals, nutrients and TOC. Phytoplankton growth is low at Hobson Bay and elevated at Judges Bay. Both sites are not very muddy and FWA's were present in low concentrations at Hobson Bay, and higher concentrations at Judges Bay (potentially due to untreated discharges from the Ōrākei Main Sewer collapse in 2023). Both sites have two PPCPs present. Judges Bay benthic macrofauna diversity is higher than at Hobson Bay, and both show healthy benthic diversity.
- **Seasonal variation:** Winter generally showed higher benthic macrofauna diversity at beach and basin sites, and lower benthic macrofauna diversity at estuarine sites. Sites were mostly muddier in winter, and phytoplankton concentrations higher in winter at estuarine sites, and lower or similar at both beach and basin sites between summer and winter. Metals, nutrients and TOC show some variation between seasons, with no consistent season being worse. There was no consistent difference between winter and summer for FWA concentrations, with the highest concentration at Waterview in winter and lowest at Hobson Bay in winter. Overall, there is some difference between seasons, but this appears to be site specific rather than a general seasonal trend.

Data collected from the TMP pilot from central Auckland marine sites, indicated spatial and seasonal variation in sediment and benthic ecological quality. The findings from this monitoring include sites with elevated metal contaminants, the presence of FWAs and PPCPs, poor benthic health, and nutrient enrichment leading to high phytoplankton abundance. These patterns suggest site-specific response to catchment influences, such as those from wastewater overflows. As such, the pilot programme has met its objective of providing a relevant methodology to adequately assess receiving environment ecological state in response to discharges from Engineered Overflow Points (EOPs). Further monitoring is expected to improve inferences on the impacts and responses of the marine receiving environments to wastewater overflow discharges over time. The section below provides recommendations for improvements to the continued monitoring programme to further increase its value.

Recommendations for future NDC monitoring

Based on the findings of this one-year pilot programme the following recommendations are made for future TMP NDC monitoring related to the marine receiving environment:

- Continue with the sites selected for future monitoring as they provide good representation across site types, display a range of levels of impact, and all indicate a degree of wastewater influence on habitat quality and ecological health.
- Continue with macroinvertebrate core monitoring as this ecological data provides the ability to assess the overall effects of discharges on biodiversity and ecosystem health as opposed to individual indicators.
- To gain a standardised measure of benthic ecological health and assess key drivers, we recommend using the Benthic Health Model (BHM) alongside diversity and evenness indices. The BHM adds value as it is an integrated metric that can also assess the relative impacts of sedimentation and metal contamination to benthic invertebrate communities (Clark et al., 2020) and be used to track trends. It will also allow easy overall comparison within and between TMP sites, and with other programmes that use the same metrics (such as AC State of the Environment monitoring).
- Continue seasonal monitoring to capture the effects of variability in overflow discharges and weather conditions and to provide a more complete picture of contaminant exposure and ecological health at different times of the year.
- Continue with the analytes selected for marine sediment sampling (except Total Phosphorus (TP)) because they provide a good representation of potential contaminants and stressors that are present within wastewater and stormwater discharges, and some ability to differentiate between potential contaminant sources.
- We recommend the PPCP analyte suite is continued for three years after the Central Interceptor becomes operational to capture any improvement in the receiving environment as a result. At that point the analyte suite could be reviewed if there are no ongoing changes or improvements in particular analytes.
- Consider dropping the analysis for TP as there are no specified guidelines and it is not an indicator directly linked to wastewater.
- Some PPCPs are noted to not partition strongly to sediments and are present predominantly in the dissolved phase. Therefore, sampling of both pore-water and sediments for PPCPs could provide a more comprehensive understanding of their environmental presence (Coxon, 2024).
- Revisit alternative New Zealand laboratories for PPCP analysis to see if they can now offer the same service as the current provider (SGS AXYS laboratories in Canada).
- Carry out further comparisons with national and international studies to contextualise findings and provide relevant ecological thresholds or benchmarks for PPCPs and FWAs.
- Apply a weight of evidence approach integrating multiple indicators (macroinvertebrate diversity, sediment nutrients and contaminants, FWA and PPCPs) to give an overall picture of wastewater exposure and ecological health.

1 Introduction

1.1 Background

In June 2024 a workshop was held between Watercare, AECOM and Tonkin & Taylor Ltd (T+T) staff to develop a Pilot Monitoring Program for the Targeted Monitoring Programme (TMP). The monitoring programme is designed to create an understanding of the associated impact and ecological effects from Watercare's wastewater network overflow discharges within Auckland. This monitoring programme has been developed to comply with Auckland Council Resource Consent R/REG/2013/3755 Conditions 58, 59, 60 and 61 (referred to as Network Discharge Consent (NDC)). This work has been undertaken in accordance with our agreed contract dated 7 January 2025.

The aim of the TMP is to assess receiving environment ecological state over time in response to discharges from Engineered Overflow Points (EOPs) for a minimum of three years but no more than five years. To confirm the monitoring programme methodology, a pilot study for one year in duration has been developed to determine the best parameters for monitoring impacts to the surrounding ecosystems in both the freshwater and marine environment.

The pilot monitoring plan covers five receiving environment types including basins, beaches, estuaries, large waterways and small waterways. T+T's scope is to cover the marine receiving environments which includes estuaries, beaches and basins.

Survey methods for the marine monitoring programme includes sediment quality and benthic ecology sampling to capture data to inform key biological indices. These indices are statistically assessed to identify site differences and determine those that should be included in a full monitoring plan for the TMP to satisfy the NDC.

1.2 Monitoring locations

Six monitoring locations were selected during the June 2024 workshop (T+T, 2024) to cover two estuaries (Motions Creek and Waterview), two beaches (Cox's Bay and adjacent to Curran Street) and two basins (Hobson's Bay and Judges Bay). The pilot monitoring plan is designed to assess the suitability of selected sites, including their accessibility and the presence of sufficient intertidal habitat to establish a sampling grid. This followed Auckland Council's recommended monitoring methods and a sampling area of 6,000–9,000 m².

1.3 Field work timeframes

To capture any seasonal differences field work was undertaken in Summer (25 and 27 February) and in Winter (22 and 23 July).

2 Methods

To ensure consistency and to allow for comparisons with Auckland Council State of the Environment (SoE) monitoring, the sampling methodology for macroinvertebrate cores and sediment samples followed that specified by Auckland Council (Auckland Regional Council, 2004; Carbines et al., 2013; Mills and Allen, 2021; Drylie, 2021).

2.1 Site observations

Prior to the commencement of works at each site the following attributes were observed and recorded:

- Site characteristics (with photos obtained).
- Visual assessment of the presence of nuisance algae such as *Ulva* or *Gracillaria*.
- Notes on any epifauna present recorded.

2.2 Benthic ecology sampling

Benthic community structure is assessed by measuring benthic invertebrate community structure, this includes both epifauna and infauna observations. Sampling procedures follow Auckland Council monitoring methodology (Auckland Regional Council, 2004; Drylie, 2021). Two 50 m long transect lines are laid using transect tapes approximately 10 m apart, with the sample plot extending ca. 5 m each side of the ends of the transect lines to create a 6,000–9,000 m² sample plot. Six sampling locations are positioned alternately on either side of the laneways, two at each end of the transects and two at the 25 m mark as seen in Figure 2.1. GPS coordinates are recorded at both ends of the tape to enable site relocation for future monitoring.

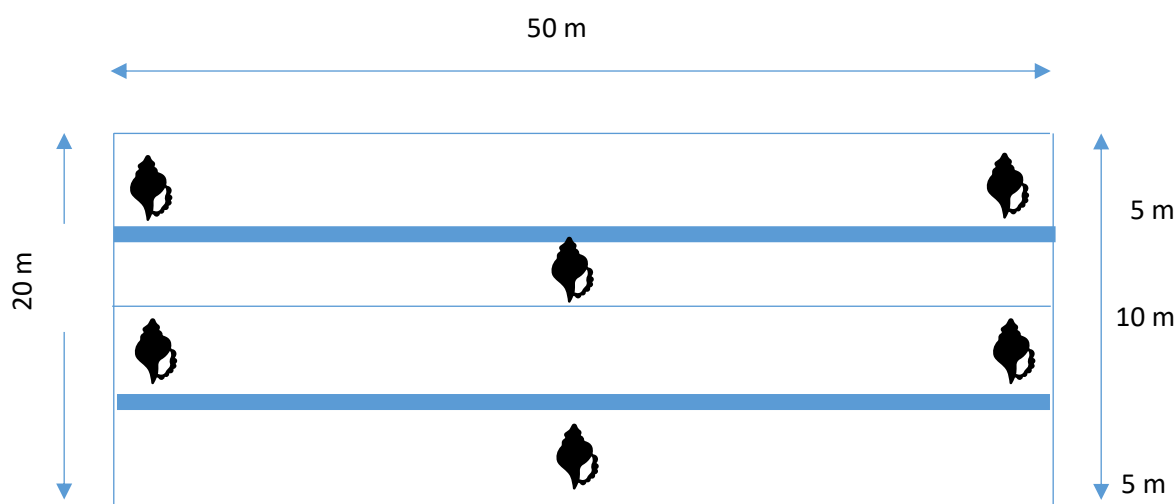


Figure 2.1 Benthic ecology sample design. Seashells indicate the location of each sampling point.

2.2.1 Benthic infaunal samples

To characterise benthic invertebrate communities, one core sample was taken from each sampling location. Each core was collected using a single, circular corer of 13 cm diameter by 15 cm deep. The corer is manually driven into the sediment and removed with core contents intact and transferred to a bag for subsequent sieving. All core samples are sieved using a 500 µm mesh sieve either on site or at an appropriate location and remaining organisms preserved in 90% ethanol. Samples are sent to BioLive Invertebrate Identification Services (Nelson) for processing and species identification.

2.2.1.1 Redox potential discontinuity

At each sampling location, an additional core was obtained using a transparent plastic corer designed to open for visual inspection. This allowed for the identification of the redox potential discontinuity (RPD) within the upper 300 mm of sediment. The depth of the RPD was measured and documented.

2.3 Sediment sampling

Sediment quality sampling was undertaken to identify contamination analytes present within the site. With reference to Auckland Council sampling methods (Allen, 2024), a composite sample was collected by collecting a small amount of sediment from the top 2 cm of the sediment at each of the six sampling locations. Sediment samples were collected for the analysis of the following:

- Heavy metals (Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Zinc and Mercury).
- Nutrients (Total organic carbon, Total nitrogen, Total phosphorus, Ammonia).
- Phytoplankton biomass indicators: Chlorophyll *a* and Pheophytin.
- Grain size analysis (7 grain size profile).
- Fluorescent Whitening Agents (FWA).
- Pharmaceutical and Personal Care Products (PPCPs).

Three replicate composite samples were collected for both heavy metals and nutrients, while all other parameters were analysed from a single composite sample at each site.

Analysis of sediment samples is undertaken by Hills Labs (for heavy metals, nutrients and grain size analysis), Earth Sciences New Zealand (Chlorophyll *a* and pheophytin), PHF Science (New Zealand Institute for Public Health and Forensic Science - formerly ESR – The Institute of Environmental Science and Research for FWAs) and SGS AXYS (located in Canada for PPCPs).

The lab analysis carried out by PHF Science for FWAs is set up to detect FWA #1 (Disodium 4,4'-bis[(4-anilino-6-morpholino-1,3,4-triazin-2-yl)amino]stilbene-2,2'-disulphonate) and reports concentrations to the reporting limit of <0.01 ppb) and is tested by ultra-High Performance Liquid Chromatography (uHPLC), which give results for the concentration of fluorescent whitener #1 in the dried sediment (ppb=µg/kg).

PPCPs were analysed by SGS AXYS (Canada). The lab ran analysis on two analyte lists as provided by the lab, List 1 and List 3 (see Appendix A). List 1 and List 3 provided a number of the recommended indicator PPCP analytes from the Auckland Council (TR2016/006) and Environment Canterbury Emerging Contaminants reports, while balancing the analysis costs (Auckland Council, 2016; Streamlined Environmental, 2024). The analysis method followed a reference method U.S. Environmental Protection Agency (EPA) 1694¹ and internal method MLA-075 with a matrix blank and a spiked ongoing and precision recovery sample with each batch. The lab is accredited to ISO-17025 standards and benchmarked using PE studies as available.

2.4 Data analysis

2.4.1 Benthic ecology

Qualitative observations and comments are presented for epifauna present within the site, and no further summary statistics are calculated from these observations.

¹ Details of the labs analysis methods for PPCPs can be found here [PPCPs & Hormones - SGS AXYS](#).

Data analysis presented for the benthic infauna results includes the mean number of individuals, number of taxa, Shannon-Weiner Diversity² and Shannon-Weiner Evenness³ and are presented for each monitoring season and site.

2.4.1.1 Redox potential discontinuity (RPD)

To interpret RPD results, threshold values developed by Stevens et al. (2024) for estuarine environments have been used as guidelines. RPD serves as an indicator of ecosystem condition, where measurements closer to the sediment surface suggest reduced habitat volume and quality for benthic infauna, along with potential shifts in community structure.

RPD depth measurements were categorised into four ecological bands to align with the scoring system used for secondary indicators in the Estuary Trophic Index (ETI) framework (Zeldis & Plew, 2022; Hale et al., 2024) and the National Policy Statement for Freshwater Management (New Zealand Government, 2020). These thresholds incorporate the 'reference' (A–B) and 'exhaustion' (C–D) limits defined by Sutula et al. (2014), with an intermediate B–C threshold set at 25 mm. This midpoint reflects the transition between reference and degraded conditions and is consistent with intermediate thresholds proposed by Nilsson and Rosenberg (2000).

Table 2.1: Recommended RPD thresholds for New Zealand estuaries (Stevens et al., 2024)

RPD depth (mm)	Ecological Quality Status			
	Very Good (A)	Good (B)	Fair (C)	Poor (D)
	>40	40 to >25	25 to 10	<10
Narrative	No to minor stress on sensitive organisms.	Moderate stress on some species and a risk of sensitive macroinvertebrate species being lost.	Significant, persistent stress on a wide range of aquatic organisms.	A likelihood of local extinctions of keystone species and loss of ecological integrity.

Note that the thresholds are in mm rather than cm, to improve measurement resolution between bands.

2.4.2 Sediment samples

Analysis of the sediment sample data results is compared against known standard guidelines, where available, to assess the adverse effects on marine habitats and biota from contaminant concentrations. These guideline values are not considered to be a pass or fail, rather a trigger for further investigation.

2.4.2.1 Grain size analysis

Sediment samples are analysed by Hills Laboratories for 7 grain size classes (Gravel ≥ 2 mm; Very Coarse Sand 1 mm to < 2 mm; Coarse Sand 500 μm to < 1 mm; Medium Sand 250 μm to < 500 μm ; Fine Sand 125 μm to < 250 μm ; Very Fine Sand 63 μm to < 125 μm ; Mud (Silt + Clay) < 63 μm). The grain size analysis looks at the percentage of 'muddiness' and assesses these against the Auckland Council classes specified within the sediment monitoring protocols.

² Shannon-Weiner Diversity is an index commonly used to describe community complexity where the diversity value ranges between 0 (indicating low community complexity) and 4 (indicating high complexity).

³ Shannon-Weiner Evenness is an index commonly used to describe community equitability of distribution where evenness value ranges from 0 (highly irregular distribution) to 1 (all counts are equal).

The split of the classes relates to the amount of mud grain size < 63 µm and is specified as those below (Drylie, 2021):

- Excellent <10 %
- Good 10-25 %
- Fair 25 – 60 %
- Marginal 60 – 80 %
- Poor > 80 %

2.4.2.2 Metals

To assess the potential ecological risk posed by sediment contamination, contaminant concentrations were compared against established sediment quality guidelines (SQGs). These guidelines provide thresholds that indicate the likelihood of adverse effects on benthic organisms residing in the sediment.

Three main SQG frameworks are used in Auckland, the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018), Environmental Response Criteria (ERC) and Threshold Effects Level (TEL) and Probable Effects Level (PEL) values.

The ANZG were applied to all metal analytes. These guidelines include Default Guideline Values (DGVs), which represent concentrations below which adverse ecological effects are unlikely and upper guidelines (GV-high), above which toxic effects may be expected (Allen, 2024).

For copper, lead and zinc, the ERC guidelines developed by Auckland Regional Council (ARC, 2004) are used. The ERC guidelines are region-specific and more conservative than the ANZG values, designed to provide early warnings to environmental degradation specifically within Auckland habitats. The ERC categorises contaminant levels into three bands:

- **Green:** low impact, minimal ecological risk.
- **Amber:** moderate impact, potential early signs of ecological stress.
- **Red:** high impact, likely ecological degradation.

For chromium, mercury, cadmium and nickel, the TEL / PEL values from MacDonald et al. (1996) are applied. The TEL represents concentrations below which adverse effects are rarely observed, while the PEL indicated levels above which adverse effects are frequently observed in benthic communities (Allen, 2024).

These guidelines were used to classify sediment quality at each site and inform the interpretation of ecological risk. These specified threshold values applied in this assessment are summarised in Table 2.2.

Table 2.2: Environmental Response Criteria (ERC), Threshold Effects Level / Probably Effects Level (TEL / PEL), and Australian and New Zealand Guidelines (ANZG) for metals. DGV = default guideline values, GV-High = guidelines value high (Allen, 2024)

Metals	ERC (mg/kg)			ANZG (mg/kg)			TEL/PEL (mg/kg)		
	Green	Amber	Red	DGV		GV-high	TEL		PEL
Copper	<19	19 - 34	>34	<65	65 - 270	>270	Not applicable		
Lead	<30	30 - 50	>50	<50	50 - 220	>220	Not applicable		
Zinc	<124	124 - 150	>150	<200	200 - 410	>410	Not applicable		
Arsenic	No ERC values			<20	20 - 70	>70	Not applicable		
Chromium	No ERC values			<80	80 - 370	>370	<52.3	52.3 - 160	>160
Mercury	No ERC values			<0.15	0.15 - 1	>1	<0.13	0.13 - 0.7	>0.7
Cadmium	No ERC values			<1.5	1.5 - 10	>10	<0.68	0.68 - 4.21	>4.21
Nickel	No ERC values			<21	21 - 52	>52	<15.9	15.9 - 42.8	>42.8
Silver	No ERC values			<1	1 - 4	>4	<0.73	0.73 - 1.77	>1.77

2.4.2.3 Nutrients

Sediment nutrient content can provide useful contextual information on benthic health in estuaries. Elevated nutrient concentrations can cause algal blooms represented as the growth of phytoplankton or macroalgae, playing a key role in eutrophication (Stevens, et al., 2024). Sediment contaminants are more stable and tend to better integrate nutrient sources over time than nutrients in the water column. Nutrients bind to sediments, with muddier particles promoting adsorption of nutrients onto mineral surfaces, meaning finer sediments tend to have higher nutrient concentrations.

Total organic carbon (TOC) is measured as a percentage of organic matter that includes carbon derived from plant and animal matter. TOC production and decomposition influence eutrophication causing oxygen depletion and other biogeochemical processes including sulphide and ammonium production in sediments. Thresholds have been derived from field data and regression analyses, showing reference conditions at <0.5 %TOC and degradation beyond 1.2 – 3.5 % TOC. Banding thresholds developed are aligned with national policy and Estuary Trophic Index (ETI) scoring systems to assess sediment condition and eutrophication risk (Stevens et al., 2024) (Table 2.3).

Table 2.3: Recommended % TOC thresholds in marine sediment

% TOC	Ecological Quality Status			
	Very Good (A)	Good (B)	Fair (C)	Poor (D)
	<0.5%	0.5 to 1.2%	>1.2% to 2%	>2%
Narrative	No to minor stress on sensitive organisms.	Moderate stress on some species and a risk of sensitive macroinvertebrate species being lost.	Significant, persistent stress on a wide range of aquatic organisms.	A likelihood of local extinctions of keystone species and loss of ecological integrity.

Sediment total nitrogen (TN) is a supporting indicator of estuarine health, used alongside other metrics like TOC, and macrofauna indices. Studies, including Sutula et al. (2011) and Robertson et al. (2016), propose thresholds for TN content, from <250 mg/kg rated 'Very good' to >2000 mg/kg 'Poor' (Table 2.4). TN influences benthic habitat quality, with impacts evident in macrofauna richness and abundance. Strong correlations exist between TN, TOC, and mud content. While spatial thresholds remain unvalidated, recent data from Salt Ecology and others reinforce TN's role in

eutrophication assessment, especially when integrated with other indicators to reflect ecological condition and degradation (Stevens, et al. 2024).

Table 2.4: Recommended thresholds for total nitrogen (TN) in marine sediment.

TN (mg/kg)	Ecological Quality Status				
	Very Good	Good	Fair	Poor	Very Poor
	<250	≥250 to <800	≥800 to <1200	≥1200 to <2000	≥2000
Narrative	Sediments are well oxygenated and ecological communities are health and resilient.	Sediments are well oxygenated and ecological communities are at low risk of losing sensitive species.	Ecological communities are at moderate risk of losing sensitive species.	Likely decrease in sediment oxygenation. Ecological communities are at high risk of a shift in macrofauna community to more tolerant species.	Poor sediment oxygenation. Ecological communities likely comprise eutrophication tolerant species.

Total phosphorus (TP) is correlated with several sediment characteristics (grainsize, TOC, TN) but the relationship to sediment health indicators can be variable, which does not make TP a suitable indicator for estuarine health. At present there is insufficient information available to set thresholds for TP.

2.4.2.4 Fluorescent Whitening Agent

FWAs also known as optical brighteners, are synthetic compounds commonly used in detergents and paper products. While FWAs are not currently regulated and no formal sediment quality thresholds exist, they can be an indicator of wastewater contamination. Studies have found that FWAs can be detectable in groundwater and can serve as a reliable indicator of septic tank contamination (Close et al., 1989).

Analysis of FWAs consists of comparison of results across the six sites to identify those sites where concentration levels are higher.

2.4.2.5 Pharmaceuticals and Personal Care Products (PPCPs)

No formal PPCP concentration guidelines are available; however, it is known that PPCPs can bioaccumulate and alter benthic organism physiology and behaviour. To assess contamination risk from emerging contaminants in marine sediments, the data analysis has focused on those sites with detection of PPCPs and presentation of these results against each other by site and season, with a short summary of the potential impacts from that PPCP analyte to biological health.

Comparison with New Zealand PPCP studies was undertaken with caution, as the SGS AXYS lab analysis and detection limits differed from those New Zealand studies used, including Stewart, 2013; Stewart et al., 2014; Bernot et al., 2018; Coxon, 2024.

3 Results

3.1 Site descriptions

3.1.1 Estuaries

3.1.1.1 Motions Creek

The Motions Creek site is located adjacent to a boardwalk that follows the estuary. The site is accessed from the bottom of Weona Place, and the walkway followed to the site location (Figure 3.1). Mangroves are present on one side of the sample plot and a deep channel on the other side. The sediment at the site is characterised by deep mud with pneumatophores and tree debris on the surface (Photograph 3.1; Photograph 3.2).



Figure 3.1 Location of Motions Creek sampling site (Auckland Council GeoMaps, 2025).



Photograph 3.1: Motions Creek sampling site (February 2025).



Photograph 3.2 Motions Creek sampling site (February 2025).

3.1.1.2 Waterview

The Waterview site was accessed from Howlett Reserve and is characterised by coastal mangroves encroaching into the inlet and soft, muddy sediments. The site is situated alongside the edge of a

deep channel amongst the mangroves and is covered by pneumatophores and crab holes (Figure 3.2; Photograph 3.3; Photograph 3.4). We note that the extensive presence of pneumatophores at the site may result in mangroves encroaching on the site over time and a new site may need to be established in the future.

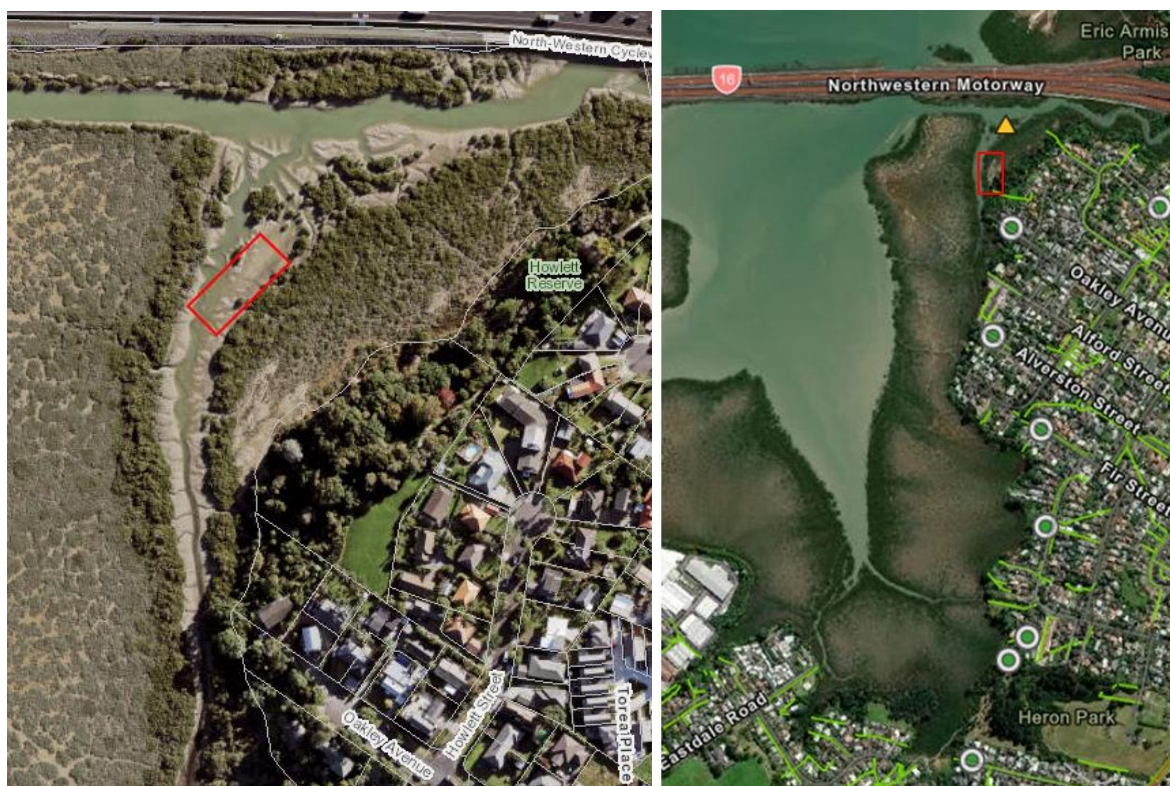


Figure 3.2 Location of Waterview sampling site (Auckland Council GeoMaps, 2025).



Photograph 3.3 Waterview sampling site (February, 2025).



Photograph 3.4 Waterview sampling site (February, 2025).

3.1.2 Beaches

3.1.2.1 Cox's Bay

Cox's Bay is a large expansive flat bay, characterised by muddy sand across the bay. The site is north of the Sea Scout Hall (Figure 3.3). The site consists of scattered pneumatophores, dead seagrass, crab holes, sparse cockle shells and dead vegetation (Photograph 3.5; Photograph 3.6).



Figure 3.3 Location of Cox's Bay sampling site (Auckland Council, GeoMaps).



Photograph 3.5 Cox's bay sampling site (February 2025).



Photograph 3.6 Cox's bay sampling site (February 2025).

3.1.2.2 Adjacent to Curran St

The Curran St site lies adjacent to the State Highway 1 northern on ramp at Shelly Beach Road and Point Erin pools. The sample location is towards the low tide mark past the outfall pipe (Figure 3.4). The bay has sandy hard packed sediment and a few crab holes with a rocky upper intertidal area (Photograph 3.7; Photograph 3.8).



Figure 3.4 Location of Curran Street sampling site (Auckland Council, GeoMaps, 2025).



Photograph 3.7 Curran Street sampling site (February 2025).



Photograph 3.8 Curran Street sampling site (February 2025).

3.1.3 Basins

3.1.3.1 Hobson Bay

Hobson Bay is a tidal inlet bordered by Orakei and Parnell. The site has mangroves along the coastal fringe and expansive mudflats. The site is located in between two channels which discharge into the bay (Figure 3.5). The site consisted of hard packed muddy sand with crab holes (Photograph 3.9; Photograph 3.10).



Figure 3.5 Location of Hobson Bay sampling site (Auckland Council, GeoMaps, 2025).



Photograph 3.9 Hobson Bay sampling site.



Photograph 3.10 Hobson Bay sampling site.

3.1.3.2 Judges Bay

The Judges Bay sampling site is located on a flat intertidal bay between the wharf and carpark (Figure 3.6). The sediment is hard packed sandy mud with oysters, crab holes and anthropogenic debris present throughout the site (Photograph 3.11; Photograph 3.12). The bay was subjected to a prolonged sewage overflow due to infrastructure failure and storm damage in 2023, which led to impacts on the water quality at Judges Bay. Upgrades to the pump station and rising main have been implemented aiming to reduce wet-weather overflows (Watercare Services Ltd, 2024).



Figure 3.6 Location of Judges Bay sampling site.



Photograph 3.11 Judges Bay sampling site (February 2025).

Photograph 3.12 Judges Bay sampling site (February 2025).

3.2 Benthic ecology

Site observations and macroinvertebrate cores were taken from six locations at each survey site. Observations were made of epifauna and marine vegetation present, and any other habitat health contributing factors.

Across the six sites, the findings from the macroinvertebrate core analysis indicate seasonal changes in macroinvertebrate community structure, that are likely driven by overflow discharge input, weather, temperature shifts, sediment dynamics, and food source availability.

3.2.1 Macrofauna

The benthic infauna results from macroinvertebrate cores are presented in detail in Appendix B. Six macroinvertebrate cores were taken at each site, two at each end of the sample plot and two from the middle. Characteristics of the six sites are outlined below and comprised detail from both the site observations and the infauna macroinvertebrate core results. Diversity and Evenness index results are presented in Section 3.2.1.7.

3.2.1.1 Motions Creek

Macroinvertebrate sampling at Motions Creek revealed distinct seasonal differences in abundance and taxa richness. Summer samples recorded individual counts ranging from 31 to 502 per replicate, with taxa richness between 4 and 7 species. *Polydora* sp. and Oligochaeta worms dominated these samples, with steady presence of *Austrohelice crassa* (mud crab).

Winter samples showed both higher individual counts, 316 to 1,142 per replicate and slightly higher taxa richness, ranging from 4 to 9 taxa per replicate. Dominant taxa such as Oligochaeta exhibited a dramatic increase in winter, while *Austrohelice crassa* maintained similar representation year-round.

3.2.1.2 Waterview

Macroinvertebrate sampling at Waterview revealed seasonal differences in both abundance and taxa richness. Summer samples recorded individual counts ranging from 19 to 95 per replicate, with taxa richness varying between 3 and 10. Dominant species included Oligochaeta worms and *Polydora* sp., with consistent year-round presence of *Austrohelice crassa* (mud crab).

Winter samples showed individual counts ranging from 12 to 127 per replicate, and taxa richness varying between 4 and 8. Both Oligochaeta and *Polydora* sp. remained prevalent, with *Austrohelice crassa* showing increased presence in winter.

3.2.1.3 Coxs Bay

Macroinvertebrate sampling at Coxs Bay revealed notable seasonal differences in community composition. Summer samples exhibited lower taxa richness (5 to 12 taxa per replicate), with highly variable individual counts (18 to 181 taxa per replicate). The central sampling location in summer showed high individual abundance but low richness, dominated by the polychaete species *Polydora* sp.

In contrast, winter samples showed increased taxa richness (6 to 17 taxa per replicate) and more consistent individual counts (59 to 120 taxa per replicate). The higher winter abundance was primarily driven by Oligochaeta and *Boccardia* sp., indicating a more diverse and balanced community structure.

3.2.1.4 Curran Street

Macroinvertebrate sampling at Curran Street revealed consistently high abundance and taxa richness across all site replicates. Summer samples showed taxa richness ranging from 12 to 23 taxa per replicate, with individual counts between 78 and 258 taxa per replicate.

Winter samples displayed similar results, with taxa richness ranging from 13 to 24 taxa per replicate and individual counts between 80 and 221 taxa per replicate. The highest abundance was observed in polychaete worm species such as *Polydora* sp. and *Prionospio aucklandica* in both summer and winter samples. The presence of *Austrovenus stutchburyi* (cockles) was also notable in both summer and winter samples.

These findings demonstrate that Curran Street maintains a robust macroinvertebrate community year-round, with little seasonal variation in richness or abundance.

3.2.1.5 Hobson Bay

Macroinvertebrate sampling at Hobson Bay revealed notable seasonal differences in community composition. Summer samples exhibited low taxa richness, ranging from 1 to 5 taxa per replicate, with individual counts between 2 and 16 taxa per replicate. The community appeared sparse and potentially stressed, with limited species representation. Dominant taxa included *Austrovenus*

stutchburyi, *Macomona liliana*, *Oligochaeta*, *Scoloplos cylindrifera*, *Capitella capitata*, juvenile Nereidae, *Perinereis vallata*, and *Austrohelice crassa*. A single occurrence of Dolichopodidae larvae was also recorded.

In contrast, winter samples showed increased taxa richness (3 to 9 taxa per replicate) and higher individual counts (6 to 41 taxa per replicate). The benthic community was more diverse and active, featuring frequent occurrences of *Austrovenus stutchburyi*, *Oligochaeta*, *Scoloplos cylindrifera*, *Polydora* sp., *Prionospio aucklandica*, *Capitella capitata*, and juvenile Nereidae. Additional species, such as *Zeacumantus subcarinatus*, Phoxocephalidae, and *Amphipoda Unid.*, further enriched the community.

These seasonal differences suggest that winter conditions support a more abundant and taxonomically rich macroinvertebrate community.

3.2.1.6 Judges Bay

Macroinvertebrate sampling at Judges Bay revealed seasonal variations in both abundance and community composition. Summer samples showed individual counts ranging between 12 and 61 per replicate, with taxa richness between 6 and 14 taxa per replicate. The community was dominated by polychaete worms, particularly *Prionospio aucklandica*, *Heteromastus filiformis*, and *Polydora* sp., alongside common bivalves such as *Austrovenus stutchburyi*. *Oligochaeta* were also consistently present across replicates.

Winter samples demonstrated higher individual counts, ranging between 44 and 156 taxa per replicate, with taxa richness between 11 and 18 taxa per replicate. The polychaete assemblage remained dominant, with increased representation of *Polydora* sp., *Prionospio aucklandica*, and *Heteromastus filiformis*. Bivalves such as *Theora lubrica* and *Austrovenus stutchburyi* were more abundant, and Nemertea appeared consistently across replicates. Amphipods and ostracods also showed greater presence in winter.

These results indicate that winter conditions support a more abundant and diverse macroinvertebrate community.

3.2.1.7 Shannon – Weiner Diversity Index and Evenness

The **Shannon-Wiener Diversity Index**, is a measure of species diversity in a community. The index takes into account the number of different species (species richness) and the evenness with which individuals are distributed among those species (species evenness)⁴.

Shannon-Weiner diversity (H') and evenness values were calculated for macroinvertebrate communities for all six TMP monitoring sites during summer (February) and winter (July) 2025. Overall, species diversity was higher in winter across all sites (average $H' = 1.50$) compared to summer (mean $H' = 1.28$), indicating seasonal variation in community structure (Figure 3.7). The highest diversity was recorded at Curran Street in winter ($H' = 2.13$), followed closely by Judges Bay ($H' = 2.05$) and Coxs Bay ($H' = 1.86$), these sites consistently supported more diverse macroinvertebrate assemblages, suggesting favourable habitat conditions or reduced disturbance.

In contrast, Motions Creek and Waterview showed the lowest diversity values for both seasons, with Motions Creek declining from an average of $H' 0.87$ in summer to an average of $H' 0.74$ in winter, and Waterview remaining relatively stable with an average of $H' 0.92$ in summer to an average of H'

⁴ A high Shannon Weiner Diversity Index typically indicates a diverse and stable ecosystem, as it suggests a community with many species that are evenly distributed. Conversely, a low Shannon Weiner Diversity Index may suggest less diversity and potentially indicate an ecosystem that is less resilient to environmental stressors, as fewer species or dominance of one species might make the ecosystem more susceptible to disturbances.

0.75 in winter. These low values may reflect environmental stressors, reduced habitat complexity, and dominance by a few tolerant species.

Standard error bars in the graph indicate moderate variability across sites with some overlap between seasonal values at Hobson Bay and Waterview, suggesting less pronounced seasonal shifts at these sites. The increase in diversity during winter may be attributed to cooler temperatures, changes in salinity or seasonal recruitment patterns that favour a broader range of taxa.

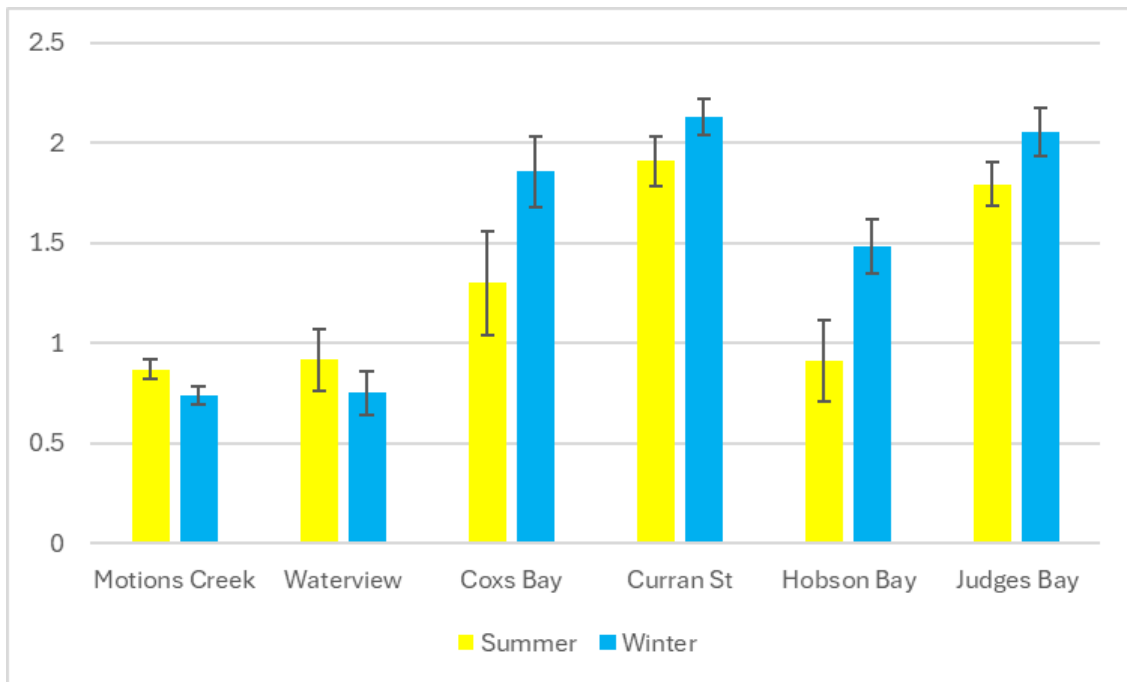


Figure 3.7 Shannon-Weiner Diversity results with standard error bars for data from summer (February 2025) and winter (July 2025) months at the six TMP monitoring sites.

Shannon-Weiner Evenness Index values reflect how evenly individuals are distributed among species within each community. In summer evenness ranged from an average of 0.51 at Motions Creek to an average of 0.83 at Judges Bay (Figure 3.8). Judges Bay exhibited the most balanced community structure, while Motions Creek and Waterview had the lowest values, suggesting the dominance by a few species and reduced ecological balance.

In winter, evenness values range from an average of 0.42 at Motions Creek to an average of 0.85 at Hobson Bay. Most sites showed an increase in evenness during winter, indicating a more equitable distribution of individuals among species. Hobson Bay demonstrated the highest winter evenness, suggesting a well-balanced macroinvertebrate community, while Motions Creek and Waterview recorded the lowest values, consistent with patterns observed in the diversity results.

The seasonal increase in evenness at most sites may be attributed to environmental factors such as temperature, salinity, or nutrient availability that influences species composition and abundance. These findings suggest that winter conditions may support a more stable and evenly distributed macroinvertebrate assemblage.

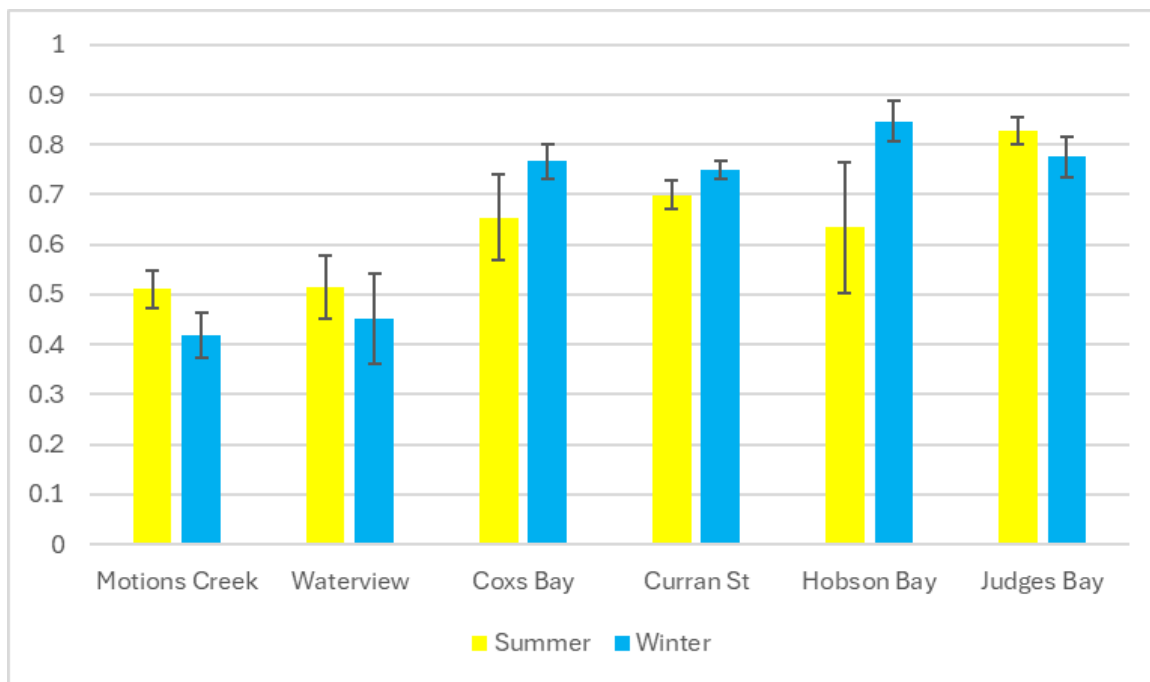


Figure 3.8 Shannon Weiner Evenness results with standard error bars for data from summer (February 2025) and winter (July 2025) months at the six TMP monitoring sites in Auckland.

3.2.2 Redox potential discontinuity (RPD) depth

Sediment core profiles showing the depth to the black, sulphide rich anoxic zone (known as the Redox potential discontinuity (RPD) depth) marks a change in oxidation – reduction (redox) conditions. It reflects the balance between the organic matter supply from the surface, the rate of consumption of this material, and the physical mixing of the sediment. The deepest RPD was found at Motions Creek during the summer monitoring at 100 mm and the shallowest at Hobson Bay, Coxs Bay, Motions Creek and Waterview, all with 5 mm records.

Figure 3.9 presents data averaged across each site and shows a seasonal difference between summer and winter at all sites, consistently higher in the summer than in the winter at all six sites. All sites except Curran Street reach ‘Very Good’ estuary indicator thresholds in summer, while winter results drop to ‘Fair’ or ‘Poor’, indicating seasonal declines in sediment health.

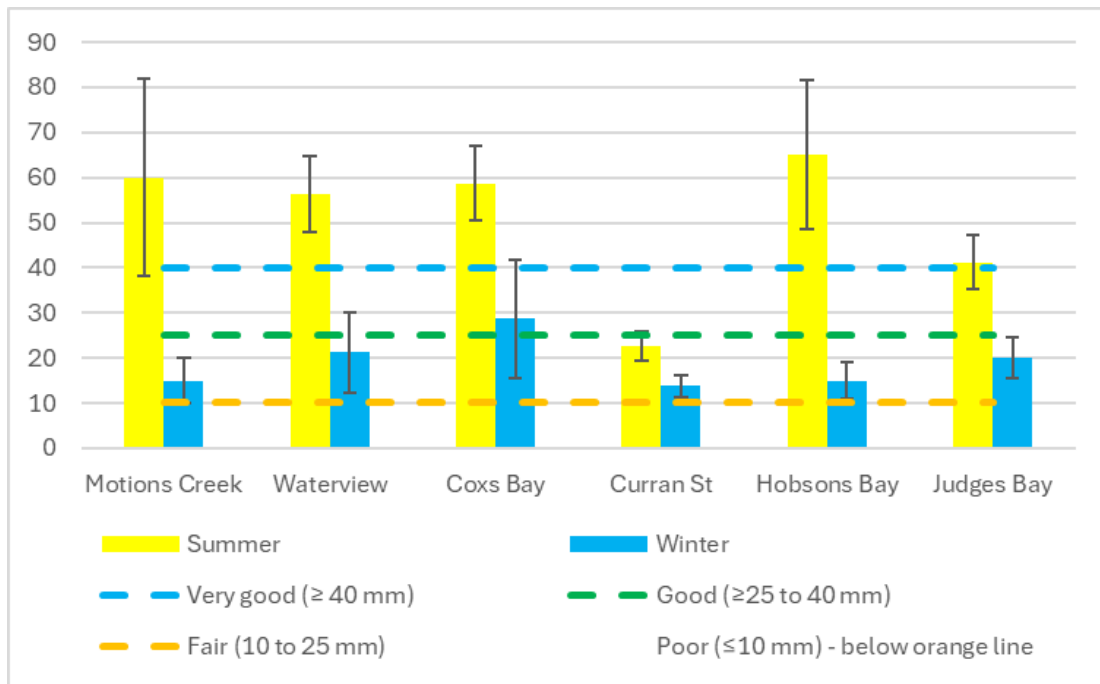


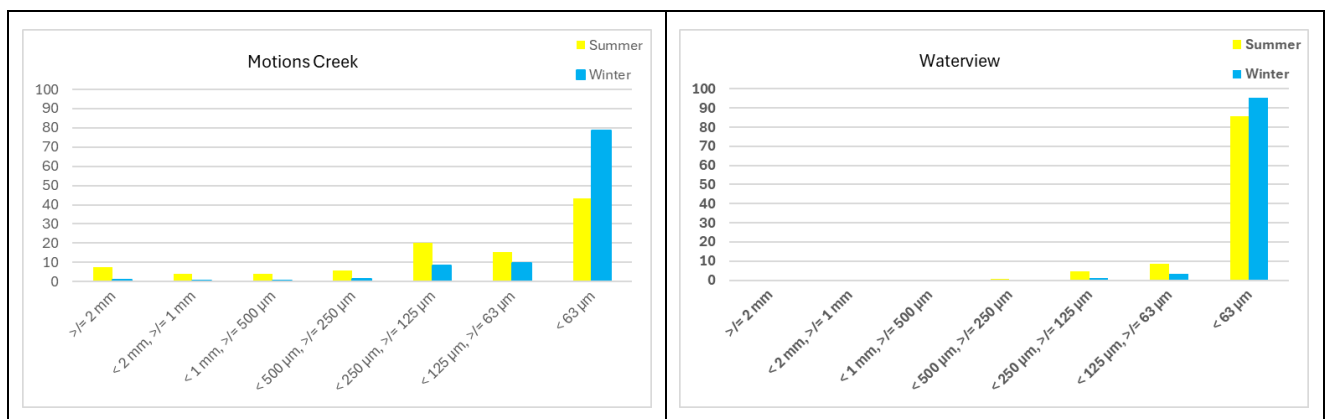
Figure 3.9 RPD measurement (mm) site average over summer and winter (estuary indicator thresholds are applied from Stevens et al., 2024) at the six TMP monitoring sites in Auckland.

3.3 Sediment quality

3.3.1 Grain size

Sediment grain size distributions across the six estuarine sites revealed clear seasonal patterns between summer and winter. The finest sediment fraction (<63 µm), or muddiness, consistently dominated across all sites, with Waterview showing the highest proportion in both seasons (85.5% in summer, 95.3% in winter). Notably, Curran Street exhibited a marked seasonal shift, with coarser fractions (≥2 mm and <500 µm) more prevalent in summer, while finer sediments increased in winter. Hobson Bay and Judges Bay maintained relatively balanced distributions across seasons, though winter samples showed slightly higher proportions of mid-range fractions (125–500 µm) (Figure 3.10).

Motions Creek and Coxs Bay demonstrated reduced coarse sediment presence in winter, that may be influence from seasonal hydrodynamic changes or sediment transport differences. Overall, summer samples tended to contain more coarse material, particularly at Curran Street and Motions Creek, while winter samples were dominated by finer sediment particles (Figure 3.10).



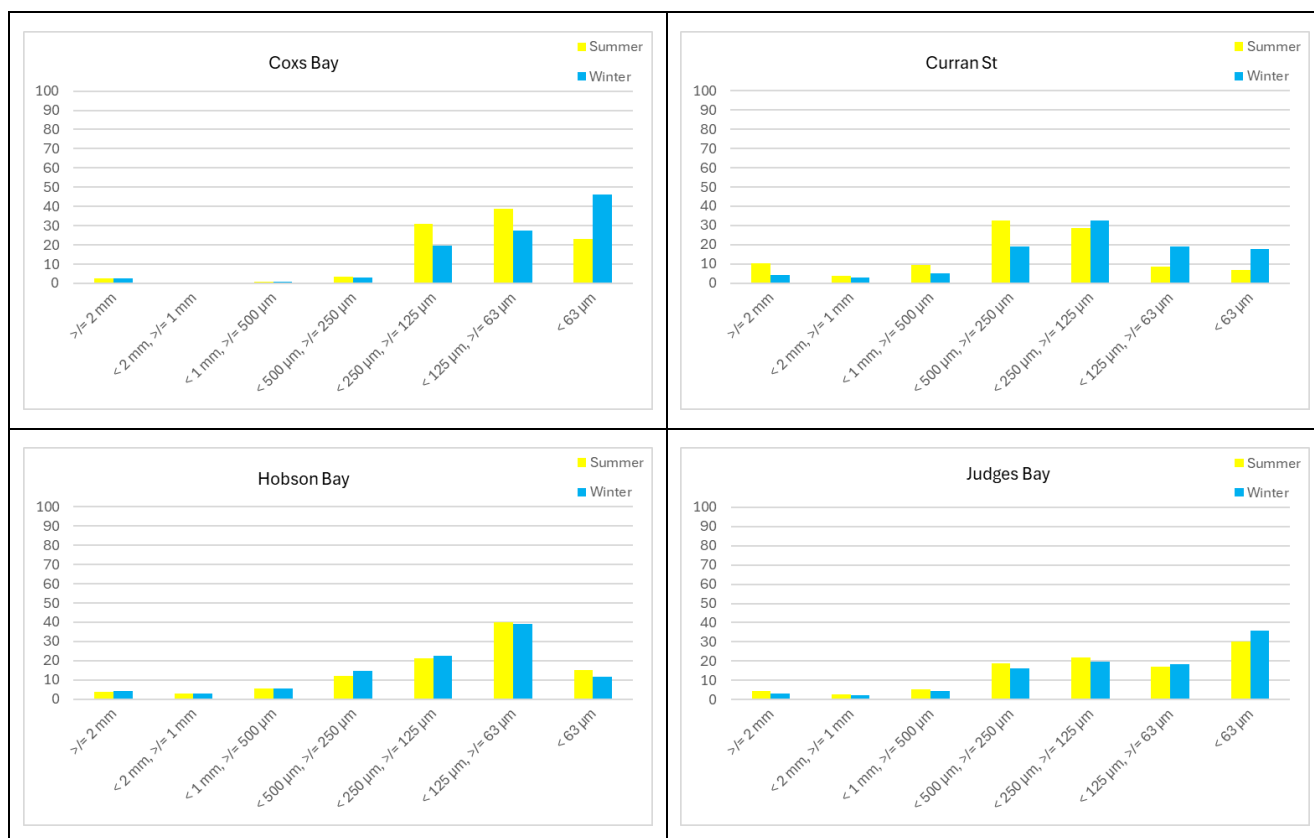


Figure 3.10 Grain size analysis for the six TMP sites in Auckland. Seven grain size classes are presented ≥ 2 mm; < 2 mm, ≥ 1 mm; < 1 mm, $\geq 500 \mu\text{m}$; $< 500 \mu\text{m}$, $\geq 250 \mu\text{m}$; $< 250 \mu\text{m}$, $\geq 125 \mu\text{m}$; $< 125 \mu\text{m}$, $\geq 63 \mu\text{m}$; $< 63 \mu\text{m}$.

When compared against the Auckland Council muddiness classes (Drylie, 2021), Waterview was the muddiest site during both summer and winter sampling, followed by Motions Creek in the winter. Hobsons Bay had the least muddy results in both summer and winter (Table 3.1).

Table 3.1: Mud content based on Auckland Council classes (Excellent <10%, Good 10-25%, Fair 25-60%, Marginal 60-80% and Poor >80%)

Type	Season	Site name	Mud content (%)
Estuary	Summer	Motions Creek	43.3
Estuary	Winter	Motions Creek	78.6
Estuary	Summer	Waterview	85.5
Estuary	Winter	Waterview	95.3
Beach	Summer	Coxs Bay	22.9
Beach	Winter	Coxs Bay	46
Beach	Summer	Curran Street	7
Beach	Winter	Curran Street	18
Basin	Summer	Hobson Bay	15
Basin	Winter	Hobson Bay	12
Basin	Summer	Judges Bay	30
Basin	Winter	Judges Bay	36

3.3.2 Heavy metals

This section presents the findings of heavy metal analyses conducted on marine sediment samples. Appendix C presents the lab data for the concentrations of key heavy metal contaminants, including copper (Cu), lead (Pb), zinc (Zn), arsenic (As), chromium (Cr), mercury (Hg), cadmium (Cd) and nickel (Ni) across the TMP sites. Comparisons are made against relevant environmental guidelines developed specifically for the Auckland region as discussed in Section 2, methodology to assess potential ecological risks.

The highest concentrations for all heavy metals tested were recorded during the summer sampling round, and the lowest values during the winter sampling round (with the exception of mercury at Hobson Bay which was the same in both summer and winter). Most sites had lower concentrations during winter than summer with the exception of Waterview, which was higher in the winter sampling round.

In summer, Motions Creek exhibited the highest concentrations of copper (48.0 mg/kg), zinc (270 mg/kg), cadmium (0.37 mg/kg) and chromium (28 mg/kg), Hobson Bay had the highest arsenic concentrations (17.9 mg/kg), Coxs Bay had the highest mercury concentrations (0.76 mg/kg) and Curran Street had the highest nickel concentrations (32 mg/kg).

In winter Hobson Bay had the lowest concentrations for copper (5.8 mg/kg), zinc (60 mg/kg), cadmium (0.015 mg/kg), chromium (8.9 mg/kg) and mercury (0.05 mg/kg). The lowest concentration of arsenic was at Coxs Bay (6.3 mg/kg) and the lowest concentration of nickel at Judges Bay (7.9 mg/kg).

Table 3.2 presents the average of three replicates per season across the six monitoring sites. The results show spatial and temporal variability, with notable differences in concentrations between sites and seasons. Higher concentrations were observed at sites such as Motions and Coxs Bay compared to other locations, with Motions Creek exceeding ERC red guidelines for site averages for copper, lead and zinc in both summer and winter, and for zinc at Coxs Bay in both summer and winter.

No sites showed elevated arsenic, chromium or cadmium when compared against the ANZG and TEL/PEL thresholds with all average results falling within 'green' status. Slightly elevated concentrations at an 'amber' status for copper were recorded for Waterview and Coxs Bay in both summer and winter, and for Curran Street in summer. Lead concentrations at an 'amber' status were recorded for Coxs Bay and Judges Bay in summer and winter, and in winter at Waterview and Curran Street. The only other elevated zinc concentrations aside from the 'red' status at Motions Creek and Coxs Bay was in winter at Waterview with an 'amber' status.

Mercury concentrations were elevated to an 'amber' status for ANZG guidelines at Motions Creek and Judges Bay in summer and winter and in summer at Coxs Bay and Curran Street. These same sites and seasons were recorded as 'amber' status when compared to TEL/PEL thresholds and for Waterview in both summer and winter seasons. Nickel was elevated to a 'amber' status at Curran Street for both ANZG and TEL/PEL thresholds, with the addition of summer results at Motions Creek. Hobsons Bay was the only site that was in 'green' status for all metal concentrations.

Table 3.2: Average heavy metal concentration results (3 replicates) compared against the Environmental Response Criteria (ERC) and Australian and New Zealand Guidelines (ANZG) for metals. DGV = default guideline values, GV-high=guideline value high. Status is reported as 'Green', 'Amber' or 'Red'.

Site type	Season	Site name	Overall status (ERC; ANZG; TEL/PEL)	ERC (mg/kg)			ANZG (mg/kg)				
				Cu	Pb	Zn	As	Cr	Hg	Cd	Ni ⁵
Estuary	Summer	Motions Creek		42.00	56.67	253.33	8.83	26.33	0.30	0.32	17.50
Estuary	Winter	Motions Creek		39.33	51.67	226.67	8.70	22.00	0.23	0.25	13.03
Estuary	Summer	Waterview		19.73	28.67	116.67	13.00	22.00	0.14	0.04	8.63
Estuary	Winter	Waterview		22.67	30.67	131.67	12.53	22.67	0.13	0.05	9.37
Beach	Summer	Coxs Bay		25.67	43.33	220.00	6.93	16.53	0.39	0.30	10.70
Beach	Winter	Coxs Bay		22.33	43.33	194.00	6.50	14.83	0.12	0.24	11.47
Beach	Summer	Curran Street		20.70	28.00	85.67	9.30	15.57	0.27	0.05	25.33
Beach	Winter	Curran Street		10.77	30.57	72.33	7.30	12.60	0.10	0.05	24.67
Basin	Summer	Hobson Bay		8.17	27.33	71.67	15.13	12.40	0.05	0.02	9.70
Basin	Winter	Hobson Bay		6.07	27.00	63.33	14.50	10.67	0.05	0.02	9.73
Basin	Summer	Judges Bay		14.23	38.00	92.00	11.57	14.57	0.19	0.07	10.97
Basin	Winter	Judges Bay		13.07	32.67	84.67	11.20	13.47	0.22	0.06	9.37

⁵ Alongside the ANZG guidelines, Nickel levels at Motions Creek surpassed the TEL threshold, triggering an Amber status for that guideline, however only the ANZG status is displayed here for Nickel.

3.3.3 Nutrients

Nitrogen, and to a lesser extent phosphorus, are important nutrients utilised in plant growth (e.g. macroalgae, seagrass, salt marsh and mangroves). Elevated levels of nutrients can cause blooms in the growth of phytoplankton and macroalgae in marine environments and therefore play a key role in eutrophication (Stevens et al., 2024).

This section presents the findings of nutrient concentration analyses conducted on marine sediment samples, Appendix C presents the lab data for concentrations of total recoverable phosphorus (TRP), total nitrogen (TN), Ammonium, and total organic carbon (TOC).

The highest nutrient concentrations for TRP (790 mg/kg) and TOC (3.1 g/100g dry wgt) were recorded in winter, and for ammonium (40 mg/kg) in summer at Motions Creek. The highest TN (2800 mg/kg) was recorded at Waterview in winter. The lowest concentrations for Ammonium (5 mg/kg) and TOC (0.22 g/100g dry wgt) were recorded at Hobson Bay during winter, and TRP (350 mg/kg) at Coxs Bay in summer and for TN (500 mg/kg) at Curran Street and Hobson Bay in summer and Curran Street during winter.

Replicate averages compared against known guidelines for TN and TOC found that Motions Creek and Waterview had elevated levels of all contaminants during both summer and winter rounds of sampling. Beach sites show moderate TOC and TN levels with Curran Street showing lower values. Basin sites recorded the lowest nutrient and TOC levels, suggesting reduced biological activity or flushing, with little variation in the results between summer and winter at Hobson Bay and Judges Bay.

Table 3.3: Average nutrient concentration results (3 replicates) compared against guideline thresholds for Estuaries in Aotearoa, New Zealand (Stevens et al., 2024) (Status reported as Very good = Green, Good = Blue, Fair = Amber, Poor = Red, Very Poor = Grey)

Site type	Season	Site name	TRP (mg/kg)	TN (mg/kg)	Ammonium (mg/kg)	TOC (g/100g dry wgt)
Estuary	Summer	Motions Creek	660	2033	29.00	2.37
Estuary	Winter	Motions Creek	767	2433	24.33	2.90
Estuary	Summer	Waterview	587	2067	37.00	1.94
Estuary	Winter	Waterview	650	2533	<8	2.53
Beach	Summer	Coxs Bay	383	1200	18.50	1.57
Beach	Winter	Coxs Bay	417	1000	11.00	1.39
Beach	Summer	Curran Street	497	1233	12.50	1.08
Beach	Winter	Curran Street	413	500	<5	0.46
Basin	Summer	Hobson Bay	463	500	<5	0.35
Basin	Winter	Hobson Bay	440	<500	5.00	0.23
Basin	Summer	Judges Bay	480	750	13.00	0.66
Basin	Winter	Judges Bay	500	<1300	<5	0.66

3.3.4 Phytoplankton biomass indicators: Chlorophyll *a* and Pheophytin

Chlorophyll *a* concentration varied across sites and seasons, indicating spatial and temporal differences in primary productivity. Waterview exhibited the most pronounced seasonal shift, with chlorophyll *a* increasing from 31.4 µg/g in summer to 68.2 µg/g in winter, suggesting enhanced phytoplankton biomass during cooler months. In contrast, Hobson Bay showed minimal seasonal variation, with values remaining low and stable (9.7 µg/g in summer and 8.7 µg/g in winter), possibly reflecting limited nutrient availability or flushing effects. Motions and Coxs Bay both recorded higher concentrations in summer (28.6 µg/g and 21.1 µg/g respectively), declining in winter, which may be linked to reduced light availability or temperature-driven productivity changes. Judges Bay and Curran Street showed negligible seasonal differences, with chlorophyll *a* levels remaining consistent across both seasons (Figure 3.11).

These patterns suggest site-specific drivers of productivity, potentially influenced by hydrodynamics, nutrient inputs, and catchment characteristics. Overall, the data highlight the importance of seasonal monitoring to capture variability in estuarine ecosystem function.

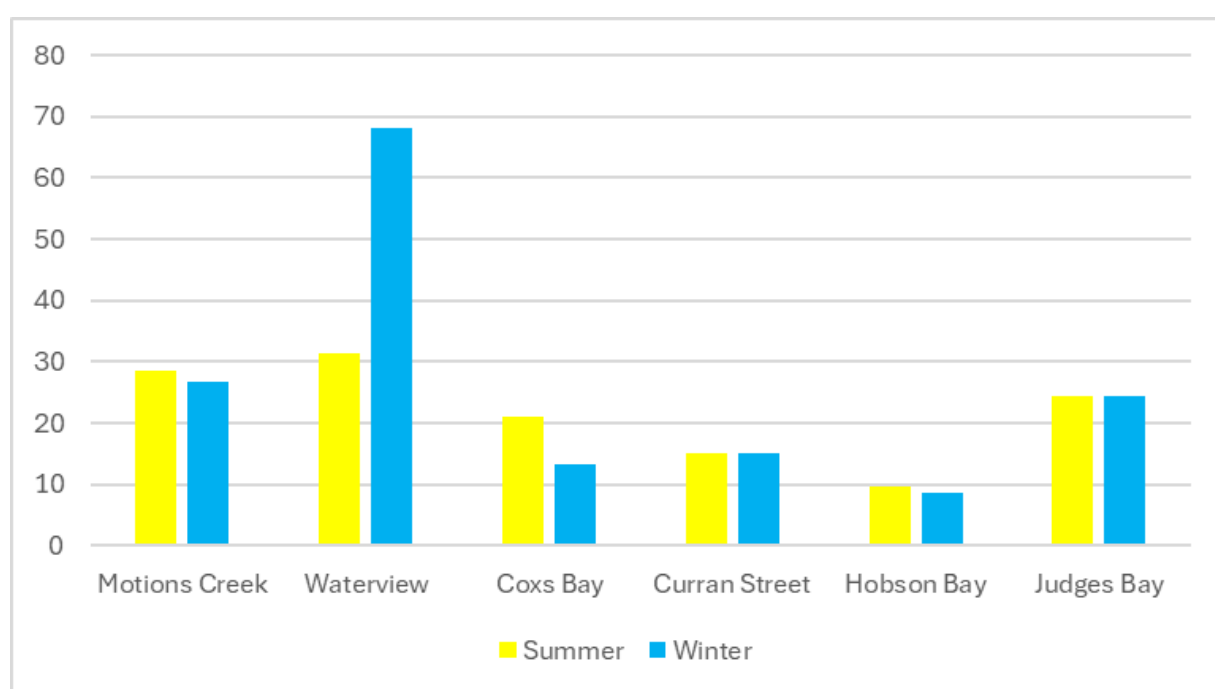


Figure 3.11 Chlorophyll *a* (µg/g) results for the six TMP sites in Auckland.

Pheophytin concentrations showed notable seasonal and spatial variation across the six monitored estuarine sites (Figure 3.12). Waterview recorded the highest levels overall, increasing from 27.9 µg/g in summer to 35.8 µg/g in winter, suggesting enhanced phytoplankton degradation or organic matter accumulation during cooler months. Hobson Bay maintained consistently low concentrations (3.4 µg/g in summer and 3.8 µg/g in winter), indicating minimal pigment breakdown or low phytoplankton biomass. Motions Creek exhibited a slight decrease from 28.6 µg/g in summer to 24.5 µg/g in winter, while Coxs Bay showed a more pronounced decline (14.6 µg/g to 9.4 µg/g), potentially reflecting seasonal shifts in productivity or flushing dynamics. Judges Bay demonstrated the most significant seasonal change, with winter concentrations (15.2 µg/g) markedly higher than summer (3.3 µg/g), possibly due to increased retention or reduced grazing pressure. Curran Street remained relatively stable across seasons (8.7 µg/g in summer and 9.7 µg/g in winter). These results suggest that pheophytin levels are influenced by site-specific environmental conditions and seasonal processes, with implications for understanding organic matter cycling and estuarine ecosystem health.

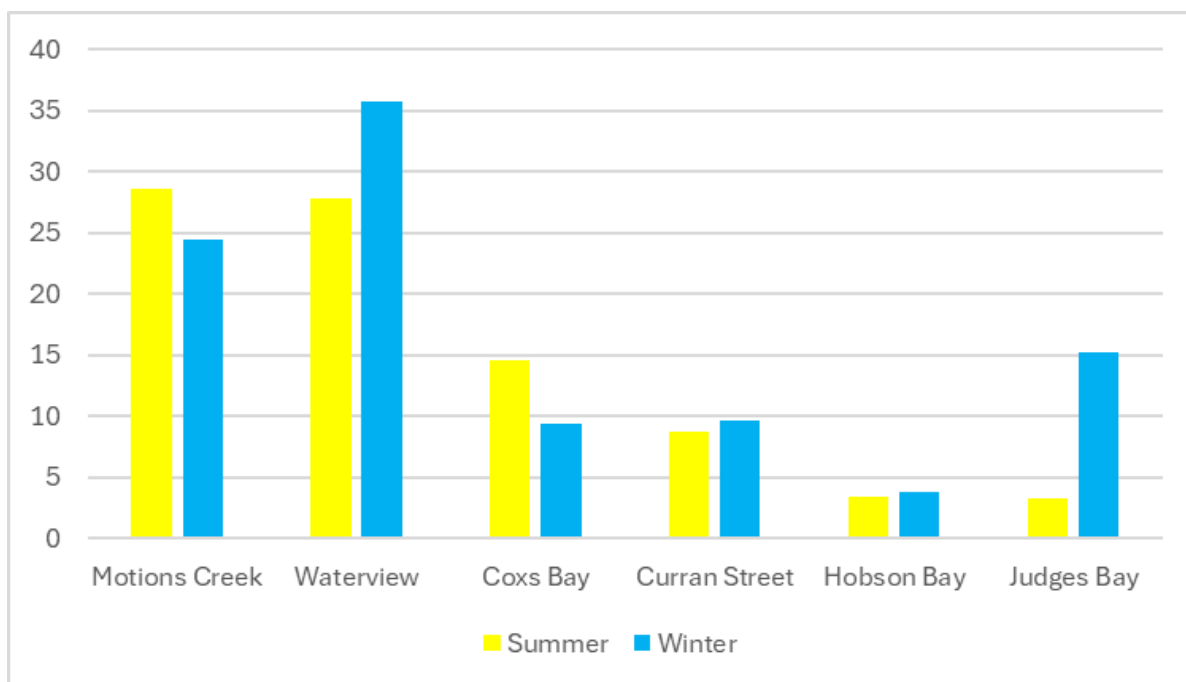


Figure 3.12 Pheophytin ($\mu\text{g/g}$) results for the six TMP sites in Auckland.

Across the six monitored sites, chlorophyll *a*:pheophytin ratios indicate predominantly moderate algal condition, with most values falling between 1.0 and 2.0 (Table 3.4). Exceptions include Hobson Bay and Judges Bay, which consistently show healthy status (ratios >2.0), suggesting fresher algal biomass and active productivity. Seasonal variation is evident with Waterview exhibiting the highest chlorophyll *a* concentration in winter (68.2 $\mu\text{g/g}$) compared with summer levels (31.4 $\mu\text{g/g}$) but the ratios remain moderate due to elevated pheophytin levels. Summer ratios at Motions Creek and Coxs Bay are between 1.0–1.5 which reflects mixed or post-bloom conditions. Overall, the data suggests stable but ageing algal communities across most sites, with localised areas of abundance biomass.

Table 3.4: Chlorophyll *a* and pheophytin ratios

Site type	Season	Site name	Chlorophyll <i>a</i> ($\mu\text{g/g}$)	Pheophytin <i>a</i> ($\mu\text{g/g}$)	Ratio	Algal condition
Estuary	Summer	Motions Creek	28.6	28.6	1	Moderate
Estuary	Winter	Motions Creek	26.6	24.5	1.09	Moderate
Estuary	Summer	Waterview	31.4	27.9	1.13	Moderate
Estuary	Winter	Waterview	68.2	35.8	1.91	Moderate
Beach	Summer	Coxs Bay	21.1	14.6	1.45	Moderate
Beach	Winter	Coxs Bay	13.2	9.4	1.4	Moderate
Beach	Summer	Curran Street	15.1	8.7	1.74	Moderate
Beach	Winter	Curran Street	15.2	9.7	1.57	Moderate
Basin	Summer	Hobson Bay	9.7	3.4	2.85	Healthy
Basin	Winter	Hobson Bay	8.7	3.8	2.29	Healthy
Basin	Summer	Judges Bay	24.4	3.3	7.39	Healthy

Site type	Season	Site name	Chlorophyll <i>a</i> (ug/g)	Pheophytin <i>a</i> (ug/g)	Ratio	Algal condition
Basin	Winter	Judges Bay	24.4	15.2	1.61	Moderate

3.4 Fluorescent whitening agents

This section presents the analytical results of fluorescent whitening agents (FWAs) detected in sediment samples across the six TMP sites. FWAs are synthetic compounds commonly used in detergents and paper products, and their presence in marine sediments can indicate wastewater contamination. The data summarised here includes seasonal and spatial variations in FWA concentrations, highlighting differences between estuarine, beach, and basin sites (Figure 3.13). These findings provide insight into anthropogenic inputs and potential ecological impacts, particularly in areas with high urban runoff. Understanding FWA distribution supports broader assessments of sediment quality and informs management strategies for maintaining healthy coastal ecosystems.

Motions Creek and Coxs Bay consistently exhibit the highest values across both seasons, suggesting elevated concentrations or activity. Waterview shows the lowest values year-round, indicating minimal presence of the measured variable. Judges Bay presents moderate levels with a clear seasonal difference. Overall, the graph highlights spatial and seasonal trends, useful for assessing environmental dynamics and potential anthropogenic influences.

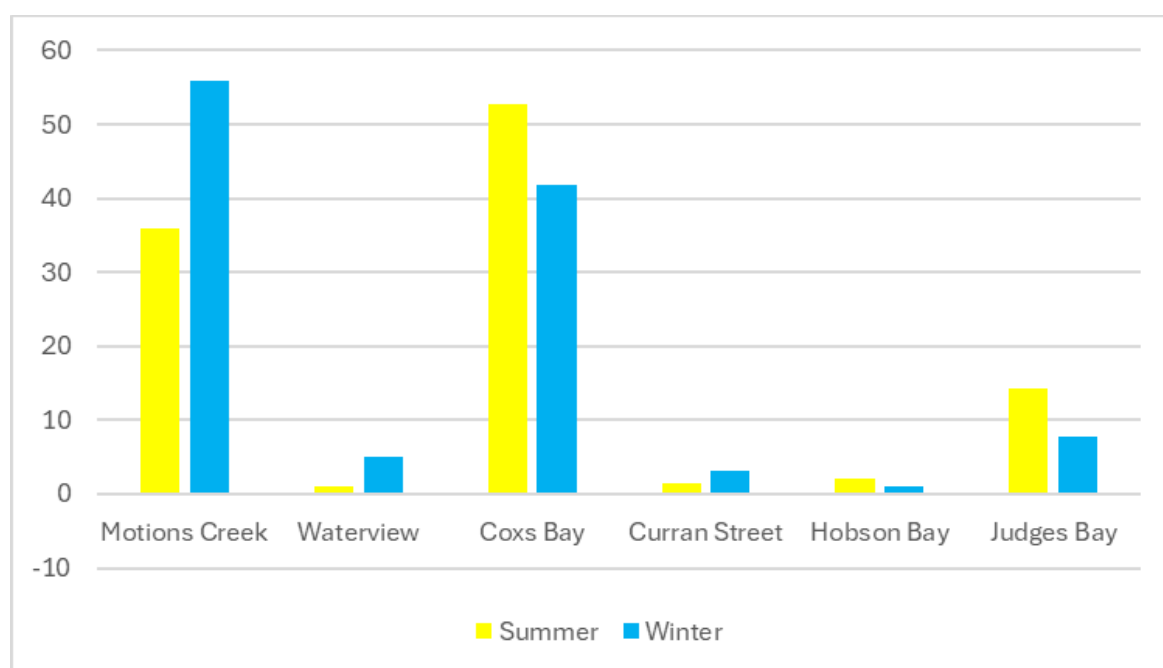


Figure 3.13 Fluorescent whitening agent results (ppb)⁶ for the six TMP sites in Auckland.

3.5 Pharmaceutical and Personal Care Products

This section presents the results of targeted monitoring for Pharmaceutical and Personal Care Products (PPCPs) in marine sediments across estuarine, beach, and basin environments. PPCPs,

⁶ Fluorescent Whitening Agent (FWA) results give the concentration of fluorescent whitener number one in the dried sediment (ppb = µg/kg).

including antibiotics, stimulants, and endocrine disruptors, were analysed to assess their presence and potential ecological risk.

PPCPs detected in sediment monitoring include those in Table 3.5 below. Motions Creek had the highest number of PPCPs detected over the two sampling seasons, with 11 PPCPs detected. Waterview and Coxs Bay both detected six PPCPs, Curran Street and Judges Bay five PPCPs, and Hobson Bay 3 PPCPs. Penicillin G was the most frequently detected and was present in all samples taken over summer and winter, with the exception of Judges Bay in winter where it wasn't detected. BPA was also frequently detected and was present in all summer samples, and half of the winter samples.

Figure 3.14 shows PPCP concentrations and seasonal variability across the sites during summer and winter. The highest concentration was found for caffeine, with a concentration of 238 ng/g during winter at Motions Creek. The results suggest some seasonal variability at Motions Creek, Waterview and Cox Bay, with the other sites showing less variability between the seasons suggesting some exposure to variation in wastewater overflows.

Table 3.5: PPCP's detected in the TMP monitoring, their function and sites detected

PPCP	Function	Sites present
Caffeine	Caffeine comes from coffee, tea, energy drinks, soft drinks, pharmaceuticals (headache medication) and is sometimes in shampoos or creams.	Motions Creek, Waterview, Coxs Bay, Curran Street, Hobson Bay, Judges Bay
1,7-Dimethylxanthine	Is the primary metabolite of caffeine.	Motions Creek
Carbamazepine	Antiepileptic drug.	Motions Creek
Clarithromycin	Antibiotic for bacterial infections such as respiratory tract infections (e.g. pneumonia and bronchitis), skin infections, and infections caused by <i>Helicobacter pylori</i> in peptic ulcer disease, as well as certain atypical bacterial infections.	Waterview
Diltiazem	Non-dihydropyridine calcium channel blocker, widely prescribed for cardiovascular conditions.	Motions Creek
Erythromycin-H2O	Macrolide antibiotic widely used in human and veterinary medicine.	Motions Creek
Fluoxetine	Selective serotonin reuptake inhibitor (SSRI) primarily used as an antidepressant.	Motions Creek, Coxs Bay
Miconazole	Antifungal drug.	Motions Creek, Waterview, Coxs Bay, Curran Street, Judges Bay
Penicillin G	Antibiotic medicine.	Motions Creek, Waterview, Coxs Bay, Curran Street, Hobson Bay, Judges Bay
Thiabendazole	Synthetic fungicide and antiparasitic agent, that is used in agriculture to prevent fungal growth and used by vets/human medicine to treat parasitic worm infections.	Motions Creek, Judges Bay
Bisphenol A	Industrial chemical widely used in the production of polycarbonate plastics and epoxy resins, commonly found in food and beverage containers, medical devices and thermal paper (e.g. receipts).	Motions Creek, Waterview, Coxs Bay, Curran Street, Hobson Bay, Judges Bay

PPCP	Function	Sites present
Triclocarban	Antimicrobial agent commonly used in personal care products such as soaps and deodorants.	Motions Creek, Waterview, Coxs Bay, Curran Street

No guidelines are currently available within New Zealand for PPCPs, and results have been compared against previous studies where applicable. These findings provide insight into the spatial and temporal distribution of PPCPs, informing future monitoring and management of emerging contaminants in coastal ecosystems.

PPCP lab results have not been included in the appendix due to the large size of the laboratory outputs, however Table 3.6 presents PPCPs found present at each site. Raw data are available upon request.

Table 3.6: PPCPs detected at the six TMP sites in Auckland (concentrations measured by ng/g dry weight basis)

Site type	Season	Site name	List 1										List 3	
			Caffeine	Carbamazepine	Clarithromycin	Diltiazem	1,7-Dimethylxanthine	Erythromycin-H2O	Fluoxetine	Miconazole	Penicillin G	Thiabendazole	Bisphenol A	Triclocarban
Estuary	Summer	Motions Creek							0.267	0.745	3.46	0.386	18.5	4.26
Estuary	Winter	Motions Creek	238	0.394		1.27	24.2	8.65	2.51	6.46	12.5		19.5	6.58
Estuary	Summer	Waterview									5.01		22.3	
Estuary	Winter	Waterview	46.8		0.509					1.06	13.1		7.17	1.02
Beach	Summer	Coxs Bay	9.39						0.312	1.23	4.85		18.8	3.8
Beach	Winter	Coxs Bay	51.9						0.719	3.94	94.9		7.04	4.72
Beach	Summer	Curran Street									5.02		10.5	0.971
Beach	Winter	Curran Street	11.4							0.986	13.2			0.879
Basin	Summer	Hobson Bay									4.32		11.3	
Basin	Winter	Hobson Bay	6.74								9.08			
Basin	Summer	Judges Bay									3.96		11.9	
Basin	Winter	Judges Bay	9.24							0.385		0.619		

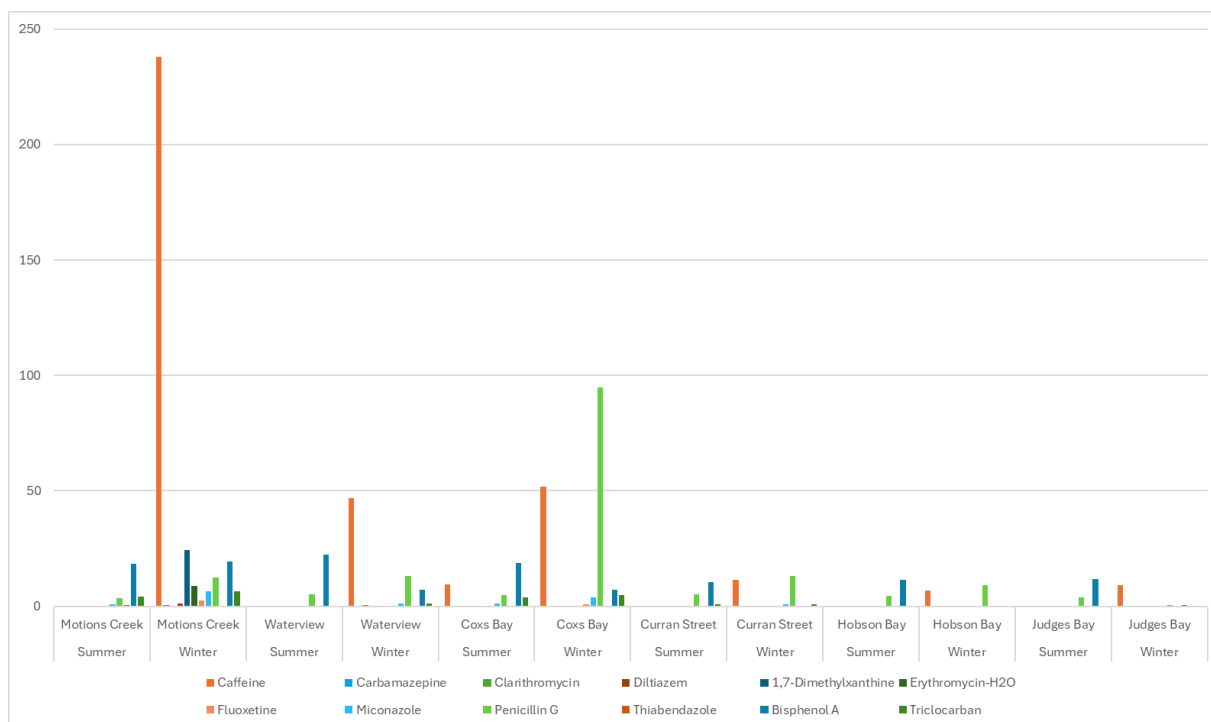


Figure 3.14 Pharmaceutical and Personal Care Products results for the six TMP sites (concentrations measured in ng/g dry weight basis). Motions and Waterview are Estuary sites, Coxs and Curran Street are beach sites, and Hobson Bay and Judges Bay are basin sites.

3.5.1 List 1

PPCPs detected during the summer monitoring round included caffeine, 1, 7-Dimethylxanthine, carbamazepine, clarithromycin, diltiazem, erythromycin-H₂O, fluoxetine, miconazole, penicillin G and thiabendazole.

3.5.1.1 Previous studies in New Zealand have detected PPCPs in aquatic sediments

For example, caffeine and carbamazepine were found above detection limits in freshwater sediments from Dunedin, while fluoxetine was detected but below detection limits (Bernot et al., 2018). In estuarine sediments from Auckland sites, including Motions Creek and Coxs Bay, 13 of the 46 PPCPs tested were present at Coxs Bay, with a median of seven PPCPs detected per site across the region (Stewart et al., 2014). Average concentrations of PPCPs at Auckland sites included compounds also detected during TMP sampling, clarithromycin and carbamazepine Caffeine

Caffeine is a naturally occurring alkaloid belonging to the methylxanthine class of compounds. It is most commonly found in coffee beans, tea leaves, cacao, energy drinks, soft drinks, pharmaceuticals (headaches) and sometimes in shampoo or creams. Caffeine acts as a central nervous system stimulant by blocking adenosine receptors to the brain, reducing feelings of fatigue and increasing alertness (Fredholm et al., 1999). Caffeine can alter fish and invertebrate behaviour, including increased activity and disrupt predator-prey and reproductive interactions (Baracchini et al., 2024).

Lab studies found that caffeine can induce oxidative stress, neurotoxicity, and metabolic disruptions in marine invertebrates. Studies on the gastropod *Littorina littorea* and the crab *Carcinus maenas* found concentrations of 5 – 10 µg/L resulted in antioxidant enzyme activities (catalase, glutathione peroxidase) and significant inhibition of acetylcholinesterase (an enzyme that plays a critical role in neurotransmission), including neurotoxic effects (Baracchini et al., 2024). Chronic exposure may lead to bioaccumulation in bivalves and fish, altering energy reserves and reproductive processes (Vieira et al., 2021).

Caffeine was detected at all sites in winter and in Coxs Bay during summer, with the lowest concentration of 6.74 ng/g dry weight at Hobsons Bay and the highest 238 ng/g dry weight at Motions Creek.

3.5.1.2 1,7-Dimethylxanthine

1,7-Dimethylxanthine, also known as paraxanthine, is the primary metabolite of caffeine and is increasingly detected in marine environments. 1,7-Dimethylxanthine is known to be persistent and to be bioactive in the marine environment. Studies have shown that 1,7-Dimethylxanthine can inhibit the growth of marine phytoplankton, such as in species *Lsochrysis galbana* and *Thalassiosira pseudonana*, which are known key primary producers in marine food webs (Koral and Ergül, 2024). High concentrations exposure, such as up to 500 mg/L can cause significant growth inhibition, with rates reaching up to 68.5% for *L. galbana*, suggesting potential disruptions in photosynthetic activity and nutrient cycling.

1,7-Dimethylxanthine was detected at Motions Creek in winter, with a concentration of 24.2 ng/g dry weight.

3.5.1.3 Carbamazepine

Carbamazepine is an antiepileptic drug widely prescribed for the treatment of epilepsy, neuropathic pain and psychiatric disorders (Ambrósio et al., 2002). It is stable and resistant to degradation within marine water and frequently detected due to incomplete removal during wastewater treatment (Almeida et al., 2021) and its resistance to biological and photochemical transformations in the environment (Andreozzi et al., 2002).

Carbamazepine is among the most frequent pharmaceuticals detected in aquatic systems and known to inhabit marine organisms. Carbamazepine has been found to bioaccumulate in bivalve tissues (Almeida et al., 2021), and studies found that carbamazepine can induce oxidative stress, cytotoxicity, immunotoxicity and genotoxicity in bivalves, increasing reactive oxygen species and lipid peroxidation while altering antioxidant enzyme activity (Almeida et al., 2020). It can also disrupt neuroendocrine systems and acetylcholinesterase activity, affecting metabolic and physiological processes (Baali and Cosio, 2022). Experimental studies of the effects of carbamazepine on zebrafish embryos found that normal growth and development was disturbed, and the hatching rate, body length, swim bladder appearance and yolk sac absorption rate were significantly increased (Qiang et al., 2016).

Carbamazepine was detected at Motions Creek in the winter with a concentration of 0.394 ng/g dry weight.

3.5.1.4 Clarithromycin

Clarithromycin is a macrolide antibiotic primarily used to treat bacterial infections such as respiratory tract infections (such as pneumonia and bronchitis), skin infections, and infections cause by *Helicobacter pylori* in peptic ulcer disease, as well as certain atypical bacterial infections. The presence of this PPCP in the marine environment can pose a risk to marine organisms.

Studies have indicated that clarithromycin inhibits photosynthesis in cyanobacteria and microalgae by impairing energy absorption, electron transport and reaction centre activation, leading to oxidative stress and ultrastructural damage (Mao et al., 2024). Repeated exposure amplifies these effects, reducing carbohydrate utilisation and altering extracellular polymeric substances, which compromises algal defence mechanisms. Clarithromycin and its active metabolite, 14-hydroxy-clarithromycin, exert toxic effects on sensitive species such as cyanobacteria and green algae (Baumann et al., 2015). These disruptions in photosynthetic organisms can cascade through marine food webs, affecting nutrient cycling and ecosystem stability (SCHEER, 2022).

Clarithromycin was detected at Waterview in winter with a concentration of 0.509 ng/g dry weight.

3.5.1.5 Diltiazem

Diltiazem, is a non-dihydropyridine calcium channel blocker, widely prescribed for cardiovascular conditions, and is known to be persistent and bioactive within the marine environment. Studies have shown that diltiazem can disrupt physiological processes in marine organisms. Diltiazem was found to impair Ca^{2+} homeostasis in haemocytes of a marine bivalve, *Tegillarca granosa*, this leads to altered expression of calcium regulating and immune-related genes, weakening the immune system responses and reducing survival rates (Hu et al., 2025). Behavioural changes and growth inhibition have been documented in fish species such as fathead minnows (*Pimephales promelas*), particularly under situations where there are combined stressors such as low dissolved oxygen (Saari, et al., 2018).

Diltiazem was detected at Motions Creek in winter with a concentration of 1.27 ng/g dry weight.

3.5.1.6 Erythromycin-H2O

Erythromycin is a macrolide antibiotic widely used in human and veterinary medicine and is known to frequently be present in the marine environment. Erythromycin affects primary producers such as microalgae and phytoplankton, by inhibiting protein synthesis and disrupting photosystem II, leading to reduced growth and photosynthetic efficiency (Sendra et al., 2018). Benthic diatoms such as *Navicula* sp. show inhibited growth and antioxidant system disruption under erythromycin exposure, which can cause potential cascading effects on marine food webs (Yang et al., 2023).

Erythromycin-H2O was detected at Motions Creek in winter, with a concentration of 8.65 ng/g dry weight.

3.5.1.7 Fluoxetine

Fluoxetine is commonly known as Prozac, is a selective serotonin reuptake inhibitor (SSRI) primarily used as an antidepressant. Its mode of action is altering serotonin pathways, can disrupt physiological and behavioural processes in marine organisms. Fluoxetine is ranked within the top 20 most threatening pharmaceuticals to the environment, due to its ability to disrupt the endocrine systems of non-target organisms and the risks associated to its release in the environment (Kumar and Xagorarakis, 2010).

Studies have found that fluoxetine can accumulate in marine worms (*Hediste diversicolor*) and can reach high exposure concentrations and cause reduced feeding rates (up to 68%) and metabolic alterations at low levels (Hird, et al., 2025). In sea urchins (*Echinometra lucunter*) exhibit impaired embryonic development, with normal larval formation dropping from 83.5% to 54% with high water concentrations of 3000 ng/L (Pauly et al., 2021). The presence of fluoxetine in the marine environment can alter fish behaviour especially aggression levels and mating, can affect invertebrate and algal growth and disrupts food web dynamics and reproductive cycles (Brodin et al., 2024).

Fluoxetine was detected at Motions Creek and Coxs Bay in both summer and winter with concentrations ranging between 0.27 ng/g and 2.51 ng/g at Motions Creek and 0.32 ng/g and 0.72 ng/g at Coxs Bay.

3.5.1.8 Miconazole

Miconazole is an antifungal pharmaceutical that has been detected in outgoing wastewater, surface water, and sludge. It is potentially persistent, has a high potential for bioaccumulation, and exhibits high chronic toxicity to aquatic organisms, particularly algae (Janusinfo.se, 2021). Miconazole can inhibit growth and photosynthetic activity in microalgae and cyanobacteria, disrupting primary productivity and nutrient cycling (Fernandez et al., 2021).

Miconazole was detected at Motions Creek and Coxs Bay in both summer and winter and at Waterview, Coxs Bay, Curran Street and Judges Bay in Winter. Concentrations found varied between 0.39 ng/g at Judges Bay and 6.46 ng/g at Motions Creek.

3.5.1.9 Penicillin G

Penicillin G is a widely used antibiotic that can enter marine environments through wastewater discharges and urban runoff. It is also known as benzylpenicillin and is used to treat bacterial infections. Penicillin G, detected in marine environments, can disrupt microbial communities and promote antibiotic resistance. Recent studies show marine bacteria can degrade Penicillin G, but residues may still impact ecosystem health and microbial diversity (Farag et al., 2024).

Microcosm experiments in Mediterranean sediments revealed that penicillin G exposure (3–700 mg/L) significantly reduced the abundance of microvores, deposit feeders, and ciliate consumers in nematode assemblages, while increasing predator dominance, indicating trophic imbalance (Nasri et al., 2015).

Penicillin G was detected at all sites in both summer and winter except for winter in Judges Bay. Concentrations range between 3.46 ng/g at Motions Creek and 94.9 ng/g at Coxs Bay.

3.5.1.10 Thiabendazole

Thiabendazole is a synthetic fungicide and antiparasitic agent, that is used in agriculture to prevent fungal growth and used by vets/human medicine to treat parasitic worm infections. Within the marine environment it can affect invertebrate and algae growth and reproduction (Kümmerer, 2009). Studies in zebrafish embryos found developmental defects including reduced body length, eye size and increased cardiac and yolk sac edema which is linked to oxidative stress, apoptosis, and disruption of cell signalling pathways (Park et al., 2023).

Thiabendazole was detected at Motions Creek in summer with a concentration of 0.39 ng/g and in winter at Judges Bay with a concentration of 0.62 ng/g.

3.5.2 List 3

PPCPs detected from List 3 during the summer monitoring round included bisphenol A and triclocarban.

3.5.2.1 Bisphenol A

Bisphenol A (BPA) is an industrial chemical widely used in the production of polycarbonate plastics and epoxy resins, commonly found in food and beverage containers, medical devices and thermal paper. BPA is considered a hazardous substance and falls under the Hazardous Substance and New Organisms Act (HSNO). BPA is approved for use under the HSNO Act and is permitted for use in food contact materials in New Zealand (EPA, 2025).

BPA is banned in many countries such as Canada in 2010, European Union in baby bottles in 2011, and the US FDA prohibited the use of BPA in baby bottles and sippy cups in 2012 and infant formula packaging in 2013. France banned BPA in food products aimed at children less than three years old in 2013 and in all food containers in 2014. From 2015 the manufacture, import, export and marketing of all food containers including BPA was banned by the French Senate. The use of BPA containing food for children under the age of three was banned in Sweden in 2012.

Bisphenol A was detected in sediments from the Stewart et al., 2014 study, however all concentrations were above 50 for Halfmoon Bay Marina (50 ng/g), Hobson Bay (52 ng/g) and Milford Marina (145 ng/g), which were much higher than the results for the TMP study which ranged between 10.5 ng/g at Curran Street to 22.3 ng/g at Waterview. This may likely be due to the high 50

ng/g detection limit. The results recorded for the TMP study are consistent with other international studies such as <2.0-118 ng/g in Venice Lagoon (Pojana et al., 2007) and <1.1-43 ng/g in the Netherlands (Vethaak et al., 2005).

Bisphenol A was detected at all sites during summer and at Motions Creek, Waterview and Coxs Bay during winter. Concentrations ranged between 7.04 ng/g at Coxs Bay and 22.3 at Waterview.

3.5.2.2 Triclocarban

Triclocarban is an antimicrobial agent commonly used in personal care products such as soaps and deodorants. In the marine environment, triclocarban is persistent and can bioaccumulate, posing risks to aquatic organisms. It can disrupt endocrine function, affect reproduction, and alter microbial communities, potentially impacting ecosystem health (Halden & Paull, 2005).

Studies on amphipods (*Gammarus locusta*) exposed to Triclocarban found behavioural impairments and oxidative stress predominantly in females (Barros et al., 2017). In marine fish (*Oryzias melastigma*), triclocarban reduced hatching rates and disrupted osmoregulatory and immune systems (Sun et al., 2024).

Triclocarban was detected at Motions Creek, Coxs Bay and Curran Street in summer and winter and at Waterview in winter. Concentrations ranged between 0.88 ng/g at Curran Street and 6.6 ng/g at Motions Creek.

4 Summary

The TMP pilot was designed to assess the ecological health of marine receiving environments (estuaries, basins, and beaches) in Auckland, focusing on the impacts of wastewater overflow discharges. The study included sediment quality and benthic ecology sampling at six sites: Motions Creek, Waterview, Coks Bay, Curran Street, Hobson Bay, and Judges Bay, with fieldwork conducted in both summer and winter to capture seasonal variation.

The results show variation between the site types, with **basins (Hobson Bay and Judges Bay)** overall appearing to have the healthiest environments with mostly 'good' nutrient levels, 'green' metal concentrations, and moderate benthic diversity. **Estuaries (Motions Creek and Waterview)**, by contrast, show signs of ecological stress with muddy sites, 'red' or 'amber' metal concentrations, and low benthic diversity. **Beaches (Coks Bay and Curran Street)** fall in between, with moderate conditions but still notable metal contamination and PPCP presence especially at Coks Bay.

The following observations were made from the survey and sampling data.

Benthic Ecology:

Macroinvertebrate community structure varied both spatially and seasonally. Sites at Curran Street and Judges Bay consistently exhibited high diversity and evenness, indicating more stable and resilient communities. In contrast, the estuary sites Motions Creek and Waterview showed lower diversity⁷ and evenness⁸, suggesting environmental stress or disturbance within these habitats. Coks Bay and Hobson Bay both showed higher diversity and evenness during winter, with Hobson Bay recording the highest evenness result for both seasons.

Diversity and evenness were generally higher in winter, indicating more balanced communities during cooler months, however, both Motions Creek and Waterview had higher summer results for diversity and evenness, suggesting more stable resilient communities during the summer at those sites.

Redox Potential Discontinuity (RPD):

RPD measurements are an indication of sediment oxygenation and can influence habitat quality. RPD depths showed seasonal declines at all sites, with shallower RPD depths in winter suggesting reduced habitat quality for benthic infauna during this period. The shallowest RPD depths from each measurement (four taken per site) were found at Hobson Bay, Coks Bay, Motions Creek and Waterview, all with 5 mm records. The deepest RPD measurement was found at Motions Creek during the summer monitoring at 100 mm. Across each site the four measurement locations were averaged, and this also showed a seasonal difference between summer and winter site, with higher average measurements in the summer at all six sites. Curran Street has the shallowest averaged RPD across both seasons, suggesting reduced habitat quality year-round.

Heavy metals:

Heavy metal concentrations displayed clear spatial and seasonal patterns. Motions Creek and Coks Bay had the highest levels of metals (notably copper, zinc, cadmium, and chromium), often exceeding guideline thresholds, particularly in summer. These findings point to the influence of discharges which could include wastewater and stormwater, and potential legacy contamination from adjacent landfills, as potential sources.

Waterview showed moderate metals, with some seasonal increases, while Curran Street was notable for elevated nickel, likely from road runoff given its proximity to the Harbour Bridge on

⁷ Shannon-Weiner Diversity is an index commonly used to describe community complexity where the diversity value ranges between 0 (indicating low community complexity) and 4 (indicating high complexity).

⁸ Shannon-Weiner Evenness is an index commonly used to describe community equitability of distribution where evenness value ranges from 0 (highly irregular distribution) to 1 (all counts are equal).

ramp. Judges Bay had elevated lead and mercury in both summer and winter samples, and Hobson Bay consistently had the lowest concentrations, indicating less anthropogenic input.

Nutrients and Organic Matter:

Nutrient concentrations (total nitrogen, phosphorus, and organic carbon) were highest at the estuary sites, Motions Creek and Waterview, with elevated levels persisting across both seasons. These sites also showed ecological signs of eutrophication, including increased phytoplankton biomass (chlorophyll *a*). Waterview had the highest phytoplankton biomass of all the sites during winter for both chlorophyll *a* and pheophytin.

The basin sites (Hobson Bay and Judges Bay) had the lowest nutrient and organic carbon levels, suggesting lower inputs of wastewater and/or stormwater runoff, or more effective flushing. Both Curran Street and Coxs Bay had elevated levels of total nitrogen in the summer samples, and Coxs Bay had 'slightly elevated levels for total organic carbon in both summer and winter.

Fluorescent Whitening Agents (FWAs):

FWAs, used as indicators of wastewater contamination, were highest at Motions Creek and Coxs Bay, with much lower concentrations recorded at all other sites, further supporting evidence of wastewater influence at these sites in particular.

Emerging Contaminants:

A range of pharmaceuticals and personal care products (**PPCPs**) were detected in marine sediments, including caffeine and the primary metabolite of caffeine (1,7-Dimethylxanthine), a plasticiser (BPA), an antibiotic (penicillin G, clarithromycin, erythromycin-H₂O), antidepressant (fluoxetine), antiepileptic (carbamazepine), antifungal (miconazole), fungicide / antiparasitic (Thiabendazole), calcium channel blocker (diltiazem) and an antimicrobial agent (Triclocarban).

Motions Creek had the highest number of PPCPs present, with 11 different PPCPs detected, and caffeine, Penicillin G and BPA were found to be present at all sites. There was a higher number of detections in winter (31) versus summer (21) samples which may suggest different levels of exposure to wastewater overflows.

The ecological risks of PPCPs are not fully understood, but evidence suggests potential impacts on microbial communities, invertebrate and fish behaviour, and food web dynamics.

Key patterns and implications:

Spatial heterogeneity:

- **Estuarine sites** (Motions Creek and Waterview) generally have elevated metals, nutrients, TOC and phytoplankton growth. The sites are generally muddy, and Motions Creek has high concentrations of FWA's and six PPCPs were present at Motions Creek and two at Waterview. Benthic macrofauna diversity results are low for both estuarine sites.
- **Beach sites** (Coxs Bay and Curran Street) generally have elevated metals, nutrients, TOC levels and phytoplankton growth. Curran Street is muddier than Coxs Bay, and both sites had FWA's present and six PPCPs were found at Coxs Bay and three at Curran Street. Both beach sites have good benthic macrofauna diversity.
- **Basin sites** (Hobson Bay and Judges Bay) generally have low concentrations of metals, nutrients and TOC. Phytoplankton growth is low at Hobson Bay and elevated at Judges Bay. Both sites are not very muddy and FWA's were present in low concentrations at Hobson Bay, and higher concentrations at Judges Bay (potentially due to untreated discharges from the Ōrākei Main Sewer collapse in 2023). Both sites have two PPCPs present. Judges Bay benthic macrofauna diversity is higher than at Hobson Bay, and both show healthy benthic diversity.

Seasonal variation: Winter generally showed higher benthic macrofauna diversity at beach and basin sites, and lower benthic macrofauna diversity at estuarine sites. Sites were mostly muddier in

winter, and phytoplankton concentrations higher in winter at estuarine sites, and lower or similar at both beach and basin sites between summer and winter. Metals, nutrients and TOC show some variation between seasons, with no consistent season being worse. There was no consistent difference between winter and summer for FWA concentrations, with the highest concentration at Waterview in winter and lowest at Hobson Bay in winter. Overall, there is some difference between seasons, but this appears to be site specific rather than a general seasonal trend.

The above summary of results and Table 4.1 below, suggests that the spread and range of data that has been collected across the central Auckland pilot marine sites is providing some context around spatial and seasonal difference in sediment and benthic ecology quality. Elevated metal contaminants, the presence of FWAs and PPCPs, low benthic ecology health and evidence of nutrient abundance, resulting in phytoplankton blooms, suggest that there are site specific responses to catchment influences, including wastewater overflows. As such, the pilot programme has met its objective of providing a relevant methodology to adequately assess receiving environment ecological state in response to discharges from Engineered Overflow Points (EOPs). Further monitoring is expected to improve inferences on the impacts and responses of the marine receiving environments to wastewater overflow discharges over time. Section 5 outlines recommendations to improve the marine receiving environment monitoring based on the findings of this one-year pilot to further increase its value.

Table 4.1: Summary of TMP monitoring results for summer and winter 2025

Site type	Season	Site name	Benthic diversity ⁹	RPD	Grain size	Metals ¹⁰	Nutrients + TOC ¹¹	Phytoplankton biomass indicator ¹²	FWA ¹³	PPCPs	Notable findings
Estuary	Summer	Motions Creek	0.87	Very good	Fair	Red	Very poor	28.6	35.9	6 x PPCP present	Red for copper, zinc and lead and very poor nutrients, low benthic diversity, highest number of PPCPs present.
Estuary	Winter	Motions Creek	0.74	Fair	Marginal	Red	Very poor	26.6	55.9	10 x PPCP present	Red for copper, zinc and lead and very poor nutrients, low benthic diversity, highest FWA concentration.
Estuary	Summer	Waterview	0.92	Very good	Poor	Amber	Very poor	31.4	1.1	2 x PPCP present	Amber metals, very poor nutrients, low benthic diversity, muddiest site.
Estuary	Winter	Waterview	0.75	Fair	Poor	Amber	Very poor	68.2	5	6 x PPCP present	Very poor nutrients, low benthic diversity, highest chlorophyll <i>a</i> concentration, muddiest site.
Beach	Summer	Coxs Bay	1.30	Very good	Good	Red	Poor	21.1	52.8	6 x PPCP present	Red zinc, moderate benthic diversity, highest number of PPCPs, high FWA concentration.

⁹ Shannon wiener diversity index score was used as the most integrative index to present benthic health, with lower values indicating lower community complexity and higher values indicating higher complexity.

¹⁰ The Environmental Response Criteria (ERC) are traffic light guidelines for sediment quality, specifically developed for the Auckland region. The thresholds are developed for metals including copper, lead and zinc, with Red being elevated and green low concentrations. The worst ERC or TEL/ANZG score overall for the site was noted for the ranking.

¹¹ Nutrients and TOC are compared against thresholds developed to align with the national policy and Estuary Trophic Index (ETI) scoring systems to assess sediment condition and eutrophication risk (Stevens et al., 2024)

¹² Chlorophyll *a* score is presented as this is the most relevant phytoplankton measure for current algal growth.

¹³ Fluorescent Whitening Agent (FWA) results give the concentration of fluorescent whitener number one in the dried sediment (ppb = µg/kg).

Site type	Season	Site name	Benthic diversity ⁹	RPD	Grain size	Metals ¹⁰	Nutrients + TOC ¹¹	Phytoplankton biomass indicator ¹²	FWA ¹³	PPCPs	Notable findings
Beach	Winter	Coxs Bay	1.86	Good	Fair	Red	Fair	13.2	41.8	6 X PPCP present	Red zinc, moderate nutrients and benthic diversity, moderate to high FWA.
Beach	Summer	Curran Street	1.91	Fair	Excellent	Amber	Poor	15.1	1.5	3 x PPCP present	Amber metals and chlorophyll <i>a</i> , poor nutrients, high benthic diversity, sandiest site.
Beach	Winter	Curran Street	2.13	Fair	Good	Green	Good	15.2	3.2	4 x PPCP present	Green metals, good nutrients and highest benthic diversity.
Basin	Summer	Hobson Bay	0.91	Very good	Good	Green	Good	9.7	2	2 x PPCP present	Green metals, good nutrients, moderate benthic diversity.
Basin	Winter	Hobson Bay	1.48	Fair	Good	Green	Good	8.7	1.1	2 x PPCP present	Green metals, good nutrients, moderate benthic diversity.
Basin	Summer	Judges Bay	1.79	Very good	Fair	Green	Good	24.4	14.3	2 x PPCP present	Green metals, good nutrients, high benthic diversity.
Basin	Winter	Judges Bay	2.05	Fair	Fair	Green	Poor	24.4	7.7	3 x PPCP present	Green metals, poor nutrients and high benthic diversity.

5 Recommendations for future NDC monitoring

Based on the findings of this one-year pilot programme the following recommendations are made for future NDC monitoring related to the marine receiving environment:

- Continue with the sites selected for future monitoring as they provide good representation across site types, display a range of levels of impact, and all indicate a degree of wastewater influence on habitat quality and ecological health.
- Continue with macroinvertebrate core monitoring as this ecological data provides the ability to assess the overall effects of discharges on biodiversity and ecosystem health as opposed to individual indicators.
- To gain a standardised measure of benthic ecological health and assess key drivers, we recommend using the Benthic Health Model (BHM) alongside diversity and evenness indices. The BHM adds value as it is an integrated metric that can also assess the relative impacts of sedimentation and metal contamination to benthic invertebrate communities (Clark et al., 2020) and be used to track trends. It will also allow easy overall comparison within and between TMP sites, and with other programmes that use the same metrics (such as AC State of the Environment monitoring).
- Continue seasonal monitoring to capture the effects of variability in discharges and weather conditions and to provide a more complete picture of contaminant exposure and ecological health at different times of the year.
- Continue with the analytes selected for marine sediment sampling (except Total Phosphorus (TP)) because they provide a good representation of potential contaminants and stressors that are present within wastewater and stormwater discharges, and some ability to differentiate between potential contaminant sources.
- We recommend the PPCP analyte suite is continued for three years after the Central Interceptor becomes operational to capture any improvement in the receiving environment as a result. At that point the analyte suite could be reviewed if there are no ongoing changes or improvements in particular analytes.
- Consider dropping the analysis for TP as there are no specified guidelines and it is not an indicator directly linked to wastewater.
- Some PPCPs are noted to not partition strongly to sediments and are present predominantly in the dissolved phase. Therefore, sampling of both pore-water and sediments for PPCPs could provide a more comprehensive understanding of their environmental presence (Coxon, 2024).
- Revisit alternative New Zealand laboratories for PPCP analysis to see if they can now offer the same service as the current provider (SGS AXYS laboratories in Canada).
- Carry out further comparisons with national and international studies to contextualise findings and provide relevant ecological thresholds or benchmarks for PPCPs and FWAs.
- Apply a weight of evidence approach integrating multiple indicators (macroinvertebrate diversity, sediment nutrients and contaminants, FWA and PPCPs) to give an overall picture of wastewater exposure and ecological health.


6 Applicability

This report has been prepared for the exclusive use of our client Watercare Services Limited, with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose, or by any person other than our client, without our prior written agreement.

We understand and agree that our client will submit this report as part of an application for resource consent and that Auckland Council as the consenting authority will use this report for the purpose of assessing that application.

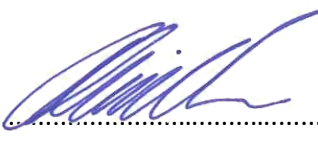
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Appendix A PPCP analyte lists

Table Appendix A.1: PPCP analyte lists tested for by SGS AXYS

List 1 – Acid extraction in positive ionization	List 3 – Acid extraction in negative ionization
Acetaminophen	Bisphenol A
Azithromycin	Furosemide
Caffeine	Gemfibrozil
Carbadox	Glipizide
Carbamazepine	Glyburide
Cefotaxime ¹⁴	Hydrochlorothiazide ¹⁵
Ciprofloxacin	2-hydroxy-ibuprofen
Clarithromycin	Ibuprofen
Clinafloxacin	Naproxen
Cloxacillin ¹⁶	Triclocarban
Dehydronifedipine	Triclosan
Digoxigenin	Warfarin
Digoxin	
Diltiazem	
1,7-Dimethylxanthine	
Diphenhydramine	
Enrofloxacin	
Erythromycin-H2O ¹⁷	
Flumequine	
Fluoxetine	
Lincomycin	
Lomefloxacin	
Miconazole	
Norfloxacin	
Norgestimate	
Ofloxacin	
Ormetoprim	
Oxacillin ¹⁶	
Oxolinic acid	
Penicillin G ¹⁶	
Penicillin V	

¹⁴ The typical reporting limits for cefotaxime are approximate

¹⁵ LMCL for hydrochlorothiazide based on Cal B dure to native contamination in the labelled standard

¹⁶ Data for compound is for information only. Concentration is estimated.

¹⁷ The typical reporting limits may be elevated by labelled surrogate purity limitation contributing to background Erythromycin-H2O levels.

List 1 – Acid extraction in positive ionization	List 3 – Acid extraction in negative ionization
Roxithromycin	
Sarafloxacin	
Sulfachloropyridazine	
Sulfadiazine	
Sulfadimethoxine	
Sulfamerazine	
Sulfamethazine	
Sulfamethizole	
Sulfamethoxazole	
Sulfanilamide	
Sulfathiazole	
Thiabendazole	
Trimethoprim	
Tylosin	
Virginiamycin	

Appendix B Benthic infauna results

Table Appendix B.1: Summer benthic infauna species identification data from macroinvertebrate cores at Hobson Bay

General Group	Taxa	Common Name	Hobson Bay – 1	Hobson Bay – 2	Hobson Bay – 3	Hobson Bay - 4	Hobson Bay - 5	Hobson Bay - 6
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	2	4			8	
Bivalvia	<i>Macomona liliana</i>	Wedge shell (Hanikura)					1	
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms		1	7	9	4	5
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm			2		2	1
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm			1			
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worm		1	1	3		1
Polychaeta: Nereidae	<i>Perinereis vallata</i>	Rag worm				1		
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab		1	2			
Insecta	<i>Dolichopodidae larvae</i>	Small fly larvae					1	
		Count: No of Individuals	2	7	13	13	16	7
		Count: No of Taxa	1	4	5	3	5	3
		SW_Diversity	0	1.1537	1.3039	0.7903	1.2997	0.7963
		SW_Evenness	0	0.8322	0.8101	0.7193	0.8075	0.7248

Table Appendix B.2: Summer benthic infauna species identification data from macroinvertebrate cores at Judges Bay

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Nemertea	<i>Nemertea</i>	Proboscis worms				1		
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk		1				
Gastropoda	<i>Tritia burchardi</i>	Dog whelk	1					
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	2	3	16	21	1	2
Bivalvia	<i>Macomona liliana</i>	Wedge shell (Hanikura)					1	
Bivalvia	<i>Nucula hartvigiana</i>	Nut Shell				1		
Bivalvia	<i>Theora lubrica</i>	Window shell					1	
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	10	5	9	2	7	5
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm		2	2	1		
Polychaeta: Paraonidae	<i>Aricidea</i> sp.	Polychaete worm					2	1
Polychaeta: Cossuridae	<i>Cossura consimilis</i>	Polychaete worm					23	
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	1					2
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	1	4	5	5	6	
Polychaeta: Spionidae	<i>Prionospio</i> sp.	Polychaete worm	1				8	
Polychaeta: Spionidae	<i>Prionospio wambiri</i>	Polychaete worm	2			1	1	
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm	1					
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm	5	3		7	5	
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worm		1	1	1	5	1
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm	1					
Polychaeta: Glyceridae	<i>Glyceridae</i>	Polychaete worm				1		
Polychaeta: Cirratulidae	<i>Cirratulidae</i>	Polychaete worm	2			2		
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod				5		
Decapoda	<i>Alpheus</i> sp. (edwardsi group)	Snapping shrimp				1		

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab			1	4	1	
		Count: No of Individuals	27	19	34	53	61	12
		Count: No of Taxa	11	7	6	14	12	6
		SW_Diversity	1.991	1.8092	1.3625	2.0464	1.9698	1.5833
		SW_Evenness	0.8303	0.9297	0.7604	0.7754	0.7927	0.8836

Table Appendix B.3: Summer benthic infauna species identification data from macroinvertebrate cores at Curran Street

General Group	Taxa	Common Name	Curran Street – 1	Curran Street – 2	Curran Street – 3	Curran Street - 4	Curran Street - 5	Curran Street - 6
Anthozoa	<i>Anthopleura aureoradiata</i>	Anemone			2			1
Nemertea	<i>Nemertea</i>	Proboscis worms			1		1	1
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk		1				
Gastropoda	<i>Notoacmea</i> sp.	Limpet					1	
Gastropoda	<i>Tritia burchardi</i>	Dog whelk			4	1		
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve					2	
Bivalvia	<i>Arcuata (Musculista) senhousia</i>	Asian mussel			8	2		
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	6	10	15	17	4	71
Bivalvia	<i>Macomona liliana</i>	Wedge shell (Hanikura)		1	4			2
Bivalvia	<i>Nucula hartvigiana</i>	Nut Shell	2	2	1	8	1	9
Bivalvia	<i>Theora lubrica</i>	Window shell			1		12	
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	3	4	4	19	5	7
Polychaeta: Paraonidae	<i>Aricidea</i> sp.	Polychaete worm			2	4	1	4
Polychaeta: Spionidae	<i>Aonides trifida</i>	Polychaete worm	4	5			1	11

General Group	Taxa	Common Name	Curran Street – 1	Curran Street – 2	Curran Street – 3	Curran Street - 4	Curran Street - 5	Curran Street - 6
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	16	16	25	69	71	58
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	40	30	28	64	5	60
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm			1			1
Polychaeta: Magelonidae	<i>Magelona dakini</i>	Polychaete worm			1			
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm	1	4	12	33	12	9
Polychaeta: Maldanidae	<i>Maldanidae</i>	Bamboo Worms		1	2	1		1
Polychaeta: Pilargidae	<i>Pilargidae</i>	Polychaete family			1	1		
Polychaeta: Syllidae	<i>Exogoninae</i>	Polychaete worm Family	1	2	6	10	1	
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms	9	1		1	1	15
Polychaeta: Glyceridae	<i>Glyceridae</i>	Polychaete worm	1			3	1	1
Cumacea	<i>Cumacea</i>	Cumaceans	2		1			
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod			2		2	
Decapoda	<i>Halicarcinus cookii</i>	Pill-box Crab			1			
Decapoda	<i>Halicarcinus whitei</i>	Pill-box Crab						3
Ostracoda	<i>Euphilomedes agilis</i>	Ostracod			1	1		2
Ostracoda	<i>Scleroconcha</i> sp.	Ostracod			1			
Cirripectida	<i>Austrominius modestus</i>	Estuarine Barnacle	1					
Diptera	<i>Orthocladinae</i>	Midges		1				
		Count: No of Individuals	86	78	124	234	119	258
		Count: No of Taxa	12	13	23	15	15	18
		SW_Diversity	1.7328	1.9037	2.4511	1.9181	1.5412	1.9988
		SW_Evenness	0.6973	0.7422	0.7817	0.7083	0.5691	0.6915

Table Appendix B.4: Summer benthic infauna species identification data from macroinvertebrate cores at Coxs Bay

General Group	Taxa	Common Name	Coxs Bay – 1	Coxs Bay – 2	Coxs Bay – 3	Coxs Bay - 4	Coxs Bay - 5	Coxs Bay - 6
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk		2				
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve		9				
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	2	3			2	2
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms		6	15	24	4	2
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm	18	4			3	24
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm			152	108	2	2
Polychaeta: Spionidae	<i>Prionospio</i> sp.	Polychaete worm		4			2	1
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm	1		2		1	
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm			1			
Polychaeta: Polynoidae	<i>Polynoidae</i>	Scale worms				1		
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worm		6	1	2	4	2
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm		1				
Polychaeta: Nereidae	<i>Perinereis vallata</i>	Rag worm	2	1				
Amphipoda	<i>Talitridae</i>	Amphipod (family)	3	2				
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod		6		1		
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab			10	11		2
Decapoda	<i>Hemiplax hirtipes</i>	Stalk-eyed Mud Crab		1				
		Count: No of Individuals	26	45	181	147	18	35
		Count: No of Taxa	5	12	6	6	7	7
		SW_Diversity	1.0237	2.2692	0.6202	0.8428	1.8601	1.1781
		SW_Evenness	0.636	0.9132	0.3462	0.4704	0.9559	0.6054

Table Appendix B.5: Summer benthic infauna species identification data from macroinvertebrate cores at Motions Creek

General Group	Taxa	Common Name	Motions Creek – 1	Motions Creek – 2	Motions Creek – 3	Motions Creek - 4	Motions Creek - 5	Motions Creek - 6
Nemertea	<i>Nemertea</i>	Proboscis worms						1
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve	1					
Bivalvia	<i>Arcuata (Musculista) senhousia</i>	Asian mussel	1					
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	1					
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	73	10		6	155	161
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm			1		2	
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	33	59	18	85	213	334
Polychaeta: Spionidae	<i>Prionospio</i> sp.	Polychaete worm				1		
Polychaeta: Spionidae	<i>Scolecoides benhami</i>	Polychaete worm	1			1	3	
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm				3		
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms		1	1	43	2	
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm						2
Isopoda	<i>Exosphaeroma</i> sp.	Isopod						1
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)				1		1
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab	8	8	11		5	2
		Count: No of Individuals	118	78	31	140	380	502
		Count: No of Taxa	7	4	4	7	6	7
		SW_Diversity	0.9976	0.7639	0.9048	0.9888	0.8407	0.717
		SW_Evenness	0.5127	0.5511	0.6527	0.5081	0.4692	0.3685

Table Appendix B.6: Summer benthic infauna species identification data from macroinvertebrate cores at Waterview

General Group	Taxa	Common Name	Waterview - 1	Waterview - 2	Waterview - 3	Waterview - 4	Waterview - 5	Waterview - 6
Nemertea	<i>Nemertea</i>	Proboscis worms						1
Bivalvia	<i>Nucula hartvigiana</i>	Nut Shell			1			
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	44	13	65	33	31	28
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	2	1	19	1	4	5
Polychaeta: Spionidae	<i>Prionospio</i> sp.	Polychaete worm						5
Polychaeta: Spionidae	<i>Prionospio wambiri</i>	Polychaete worm			7	4		2
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm	1			2	1	1
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm				1	1	1
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms				2	1	2
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm				1		2
Polychaeta: Nereidae	<i>Perinereis vallata</i>	Rag worm			1		1	
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)				2		
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab		5	1			
Cirripedia	<i>Austrominius modestus</i>	Estuarine Barnacle	1					
Diptera	<i>Orthocladiinae</i>	Midges			1			
		Count: No of Individuals	48	19	95	46	39	48
		Count: No of Taxa	4	3	7	8	6	10
		SW_Diversity	0.3735	0.7659	0.9654	1.1093	0.7918	1.5055
		SW_Evenness	0.2694	0.6972	0.4961	0.5335	0.4419	0.6538

Table Appendix B.7: Winter benthic infauna species identification data from macroinvertebrate cores at Hobson Bay

General Group	Taxa	Common Name	Hobson Bay – 1	Hobson Bay – 2	Hobson Bay – 3	Hobson Bay - 4	Hobson Bay - 5	Hobson Bay - 6
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk			1			
Gastropoda	<i>Zeacumantus subcarinatus</i>	Small Mud Snail		1				
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	7	2			1	
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	7	7	8		23	9
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm		2	3	2	1	
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	1		1			1
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm		1				1
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm	1					
Polychaeta: Nereidae	<i>Nereidae (juvenile)</i>	Rag worms	1	1	1			7
Amphipoda	<i>Corophiidae</i>	Amphipod (family)		1				
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)						
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod	2	3	8	2	6	7
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab	3	3	8	2	10	3
		Count: No of Individuals	22	21	23	6	41	28
		Count: No of Taxa	7	9	7	3	5	6
		SW_Diversity	1.6399	1.95	1.5456	1.0986	1.1308	1.5353
		SW_Evenness	0.8427	0.8875	0.7943	1	0.7026	0.8569

Table Appendix B.8: Winter benthic infauna species identification data from macroinvertebrate cores at Judges Bay

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Nemertea	<i>Nemertea</i>	Proboscis worms			1	1	1	1
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve					2	
Bivalvia	<i>Arcuata (Musculista) senhousia</i>	Asian mussel				1	1	1
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	3	5	7	12	5	
Bivalvia	<i>Theora lubrica</i>	Window shell		3	1	20	13	2
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	6	7	10	61	10	7
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm	8	2	4	1		1
Polychaeta: Paraonidae	<i>Aricidea</i> sp.	Polychaete worm	1	1			1	
Polychaeta: Cossuridae	<i>Cossura consimilis</i>	Polychaete worm		1			2	
Polychaeta: Spionidae	<i>Aonides trifida</i>	Polychaete worm			1	1		
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	7	4	1	10	2	36
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	10	11	15	14	10	1
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm	1					
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm	2	1		2		
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm	4	19	6	15	8	4
Polychaeta: Maldanidae	<i>Maldanidae</i>	Bamboo Worms				1	1	
Polychaeta: Opheliidae	<i>Armandia maculata</i>	Polychaete worm			1			
Polychaeta: Syllidae	<i>Exogoninae</i>	Polychaete worm Family		1				
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms	1	2	1		1	
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm			1	2		
Polychaeta: Glyceridae	<i>Glyceridae</i>	Polychaete worm	1	1			3	1

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Polychaeta: Cirratulidae	<i>Cirratulidae</i>	Polychaete worm		1	1	6		
Crustacea	<i>Nebalia</i> sp.	Small Crustacean					1	2
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod			10	6	2	2
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab				1		1
Ostracoda	<i>Rutiderma</i> sp.	Ostracods		1				
Copepoda	<i>Copepoda</i>	Copepods				1		
Diptera	<i>Orthocladiinae</i>	Midges				1		
		Count: No of Individuals	44	60	60	156	63	59
		Count: No of Taxa	11	15	14	18	16	12
		SW_Diversity	2.0964	2.1676	2.1512	2.0668	2.3508	1.4956
		SW_Evenness	0.8743	0.8004	0.8151	0.715	0.8479	0.6019

Table Appendix B.9: Winter benthic infauna species identification data from macroinvertebrate cores at Judges Bay

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Nemertea	<i>Nemertea</i>	Proboscis worms			1	1	1	1
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve					2	
Bivalvia	<i>Arcuata (Musculista) senhousia</i>	Asian mussel				1	1	1
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	3	5	7	12	5	
Bivalvia	<i>Theora lubrica</i>	Window shell		3	1	20	13	2
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	6	7	10	61	10	7
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm	8	2	4	1		1
Polychaeta: Paraonidae	<i>Aricidea</i> sp.	Polychaete worm	1	1			1	
Polychaeta: Cossuridae	<i>Cossura consimilis</i>	Polychaete worm		1			2	

General Group	Taxa	Common Name	Judges Bay – 1	Judges Bay – 2	Judges Bay – 3	Judges Bay - 4	Judges Bay - 5	Judges Bay - 6
Polychaeta: Spionidae	<i>Aonides trifida</i>	Polychaete worm			1	1		
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	7	4	1	10	2	36
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	10	11	15	14	10	1
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm	1					
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm	2	1		2		
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm	4	19	6	15	8	4
Polychaeta: Maldanidae	<i>Maldanidae</i>	Bamboo Worms				1	1	
Polychaeta: Opheliidae	<i>Armandia maculata</i>	Polychaete worm			1			
Polychaeta: Syllidae	<i>Exogoninae</i>	Polychaete worm Family		1				
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms	1	2	1		1	
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm			1	2		
Polychaeta: Glyceridae	<i>Glyceridae</i>	Polychaete worm	1	1			3	1
Polychaeta: Cirratulidae	<i>Cirratulidae</i>	Polychaete worm		1	1	6		
Crustacea	<i>Nebalia</i> sp.	Small Crustacean					1	2
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod			10	6	2	2
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab				1		1
Ostracoda	<i>Rutiderma</i> sp.	Ostracods		1				
Copepoda	<i>Copepoda</i>	Copepods				1		
Diptera	<i>Orthocladinae</i>	Midges				1		
		Count: No of Individuals	44	60	60	156	63	59
		Count: No of Taxa	11	15	14	18	16	12
		SW_Diversity	2.0964	2.1676	2.1512	2.0668	2.3508	1.4956
		SW_Evenness	0.8743	0.8004	0.8151	0.715	0.8479	0.6019

Table Appendix B.10: Winter benthic infauna species identification data from macroinvertebrate cores at Curran Street

General Group	Taxa	Common Name	Curran Street – 1	Curran Street – 2	Curran Street – 3	Curran Street - 4	Curran Street - 5	Curran Street - 6
Anthozoa	<i>Anthopleura aureoradiata</i>	Anemone	1					
Nemertea	<i>Nemertea</i>	Proboscis worms			1	1	1	1
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk				2	1	2
Gastropoda	<i>Tritia burchardi</i>	Dog whelk		2	2	2	1	
Gastropoda	<i>Zeacumantus lutulentus</i>	Spireshell						1
Gastropoda	<i>Zeacumantus subcarinatus</i>	Small Mud Snail					3	1
Opisthobranchia	<i>Philine auriformis</i>	White Slug					1	
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve			1			
Bivalvia	<i>Arcuata (Musculista) senhousia</i>	Asian mussel			1	1	1	
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	32	8	1	11	26	43
Bivalvia	<i>Macomona liliana</i>	Wedge shell (Hanikura)	2	2				
Bivalvia	<i>Nucula hartvigiana</i>	Nut Shell	1	15	5	33	21	10
Bivalvia	<i>Theora lubrica</i>	Window shell			2	3		
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	29	1	1	5	7	1
Polychaeta: Orbiniidae	<i>Orbinia papillosa</i>	Polychaete worm	1					
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifera</i>	Polychaete worm					2	
Polychaeta: Paraonidae	<i>Aricidea</i> sp.	Polychaete worm		3	3	5	3	1
Polychaeta: Cossuridae	<i>Cossura consimilis</i>	Polychaete worm						1
Polychaeta: Spionidae	<i>Aonides trifida</i>	Polychaete worm	21	2			4	5
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	45	11	36	31	69	8
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	15	22	16	29	20	25

General Group	Taxa	Common Name	Curran Street – 1	Curran Street – 2	Curran Street – 3	Curran Street - 4	Curran Street - 5	Curran Street - 6
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm					1	
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm				15		2
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm	9	9	16	19	25	7
Polychaeta: Maldanidae	<i>Maldanidae</i>	Bamboo Worms				2	1	
Polychaeta: Opheliidae	<i>Armandia maculata</i>	Polychaete worm				1		
Polychaeta: Syllidae	<i>Exogoninae</i>	Polychaete worm Family			1	27	20	3
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms		1	1	1	4	4
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm					4	
Polychaeta: Glyceridae	<i>Glyceridae</i>	Polychaete worm		2				
Polychaeta: Goniadidae	<i>Goniada sp.</i>	Polychaete worm				1		
Polychaeta: Pectinariidae	<i>Lagis (Pectinaria) australis</i>	Polychaete worm				1	1	
Cumacea	<i>Cumacea</i>	Cumaceans	1	2				
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)	1			1		
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod			6	4	3	
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab					1	
Decapoda	<i>Halicarcinus whitei</i>	Pill-box Crab				1	1	1
Ostracoda	<i>Euphilomedes agilis</i>	Ostracod				2		
Ostracoda	<i>Scleroconcha sp.</i>	Ostracod			1	1		
Diptera	<i>Orthocladinae</i>	Midges	1					
		Count: No of Individuals	159	80	94	199	221	116
		Count: No of Taxa	13	13	16	24	24	17
		SW_Diversity	1.8892	2.1115	1.9625	2.4697	2.3093	2.0368
		SW_Evenness	0.7365	0.8232	0.7078	0.7771	0.7267	0.7189

Table Appendix B.11: Winter benthic infauna species identification data from macroinvertebrate cores at Coxs Bay

General Group	Taxa	Common Name	Coxs Bay – 1	Coxs Bay – 2	Coxs Bay – 3	Coxs Bay - 4	Coxs Bay - 5	Coxs Bay - 6
Gastropoda	<i>Cominella glandiformis</i>	Mud Flat Whelk	2	1				
Gastropoda	<i>Zeacumantus lutulentus</i>	Spireshell	1	2				
Gastropoda	<i>Zeacumantus subcarinatus</i>	Small Mud Snail	1					
Bivalvia	<i>Arthritica bifurca</i>	Small bivalve		3				3
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)	12	8	1		6	3
Bivalvia	<i>Macomona liliana</i>	Wedge shell (Hanikura)	1					
Bivalvia	<i>Nucula hartvigiana</i>	Nut Shell	1					
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	15	23	48	26	24	16
Polychaeta: Nereididae	<i>Ceratonereis</i> sp.	Rag worm	1					
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifer</i>	Polychaete worm	6	9			8	7
Polychaeta: Spionidae	<i>Boccardia</i> sp.	Polychaete worm	5	5	47	46	6	18
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm			14	24	3	25
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm	1	5			9	2
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm	1	3	1			2
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm	1		1	2	2	
Polychaeta: Capitellidae	<i>Heteromastus filiformis</i>	Polychaete worm		1		1		
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms	5	6	1		1	2
Polychaeta: Nereidae	<i>Nicon aestuariensis</i>	Rag worm	3	1	1		1	3
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)						2
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod	2	5			1	

General Group	Taxa	Common Name	Coxs Bay – 1	Coxs Bay – 2	Coxs Bay – 3	Coxs Bay - 4	Coxs Bay - 5	Coxs Bay - 6
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab	1		6	7	1	
Decapoda	<i>Halicarcinus whitei</i>	Pill-box Crab		1				
Copepoda	<i>Copepoda</i>	Copepods		1				
		Count: No of Individuals	59	74	120	106	63	83
		Count: No of Taxa	17	15	9	6	12	11
		SW_Diversity	2.3258	2.2582	1.3336	1.3417	1.9389	1.9379
		SW_Evenness	0.8209	0.8339	0.6069	0.7488	0.7803	0.8082

Table Appendix B.12: Winter benthic infauna species identification data from macroinvertebrate cores at Motions Creek

General Group	Taxa	Common Name	Motions Creek – 1	Motions Creek – 2	Motions Creek – 3	Motions Creek - 4	Motions Creek - 5	Motions Creek - 6
Anthozoa	<i>Anthopleura aureoradiata</i>	Anemone						1
Gastropoda	<i>Potamopyrgus estuarinus</i>	Estuarine snail		2				
Bivalvia	<i>Austrovenus stutchburyi</i>	Cockle (Huangi)						2
Bivalvia	<i>Cyclomactra ovata</i>	Bivalve		1				4
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	66	900	506	139	241	452
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	54	229	120	172	151	440
Polychaeta: Spionidae	<i>Scolecopides benhami</i>	Polychaete worm		2				
Polychaeta: Capitellidae	<i>Capitella capitata</i>	Polychaete worm						6
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worm		1			2	1
Polychaeta: Nereidae	<i>Perinereis vallata</i>	Rag worm		2	2	2	2	
Amphipoda	<i>Corophiidae</i>	Amphipod (family)	1		2			4
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab	2	4	4	3	7	
Diptera	<i>Ephydriidae</i>	Shore fly larvae		1				

General Group	Taxa	Common Name	Motions Creek – 1	Motions Creek – 2	Motions Creek – 3	Motions Creek - 4	Motions Creek - 5	Motions Creek - 6
Diptera	<i>Orthoclaadiinae</i>	Midges			8		1	
Diptera	<i>Psychodidae</i> (larvae)	Moth fly	1					1
		Count: No of Individuals	124	1142	642	316	404	911
		Count: No of Taxa	5	9	6	4	6	9
		SW_Diversity	0.842	0.5815	0.6233	0.7686	0.8137	0.8159
		SW_Evenness	0.5232	0.2647	0.3479	0.5544	0.4541	0.3713

Table Appendix B.13: Winter benthic infauna species identification data from macroinvertebrate cores at Waterview

General Group	Taxa	Common Name	Waterview – 1	Waterview – 2	Waterview – 3	Waterview - 4	Waterview - 5	Waterview - 6
Oligochaeta	<i>Oligochaeta</i>	Oligochaete worms	112	102	19	7	59	52
Polychaeta: Orbiniidae	<i>Scoloplos cylindrifer</i>	Polychaete worm			2			
Polychaeta: Spionidae	<i>Aonides trifida</i>	Polychaete worm				2		1
Polychaeta: Spionidae	<i>Boccardia</i> sp.	Polychaete worm					4	
Polychaeta: Spionidae	<i>Polydora</i> sp.	Polychaete worm	3	1			7	1
Polychaeta: Spionidae	<i>Prionospio aucklandica</i>	Polychaete worm					1	
Polychaeta: Spionidae	<i>Prionospio wambiri</i>	Polychaete worm						1
Polychaeta: Nereidae	<i>Nereidae</i> (juvenile)	Rag worms	1			1	1	1
Amphipoda	<i>Phoxocephalidae</i>	Amphipod (family)	1	1				
Amphipoda	<i>Amphipoda</i> Unid.	Amphipod	1					
Decapoda	<i>Austrohelice crassa</i>	Tunnelling Mud Crab	2	2	2	2	5	7
Diptera	<i>Muscidae</i>	Fly larvae	2	2	2			
Diptera	<i>Orthoclaadiinae</i>	mMidges	5	1				

General Group	Taxa	Common Name	Waterview - 1	Waterview - 2	Waterview - 3	Waterview - 4	Waterview - 5	Waterview - 6
		Count: No of Individuals	127	109	25	12	78	64
		Count: No of Taxa	8	6	4	4	7	7
		SW_Diversity	0.5718	0.338	0.8147	1.1187	0.9235	0.7357
		SW_Evenness	0.275	0.1886	0.5877	0.807	0.4746	0.3781

Appendix C Sediment quality results

C1 Summer monitoring results (Hills lab heavy metals, nutrients, grain size and chlorophyll a)



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Certificate of Analysis

Page 1 of 5

Client: Tonkin & Taylor Contact: Melanie Tupe C/- Tonkin & Taylor PO Box 5271 Auckland 1141	Lab No: 3945610 Date Received: 25-Jul-2025 Date Reported: 27-Aug-2025 Quote No: 134835 Order No: 1090872.2000 Client Reference: 1090872.2000 Submitted By: Melanie Tupe	SPV1
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Sample Type: Sediment

Sample Name:	Coxs Bay-1 22-Jul-2025 9:00 am	Coxs Bay-2 22-Jul-2025 9:00 am	Coxs Bay-3 22-Jul-2025 9:00 am	Coxs Bay-4 22-Jul-2025 9:00 am	Coxs Bay-5 22-Jul-2025 9:00 am
Lab Number:	3945610.1	3945610.2	3945610.3	3945610.4	3945610.5

Individual Tests						
Dry Matter	g/100g as rcvd	64	60	59	-	-
Total Recoverable Phosphorus	mg/kg dry wt	420	410	420	-	-
Total Nitrogen*	g/100g dry wt	0.11	0.10	0.09	-	-
Ammonium-N*	mg/kg dry wt	11	11	11	-	-
Total Organic Carbon*	g/100g dry wt	1.38	1.56	1.24	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	13.2	-
Pheophytin a**	mg/kg as rcvd	-	-	-	9.4	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	6.6	6.6	6.3	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.26	0.23	0.24	-	-
Total Recoverable Chromium	mg/kg dry wt	14.4	14.6	15.5	-	-
Total Recoverable Copper	mg/kg dry wt	23	22	22	-	-
Total Recoverable Lead	mg/kg dry wt	44	45	41	-	-
Total Recoverable Mercury	mg/kg dry wt	0.13	0.12	0.12	-	-
Total Recoverable Nickel	mg/kg dry wt	11.6	10.6	12.2	-	-
Total Recoverable Zinc	mg/kg dry wt	200	193	189	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	59
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	2.4
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	0.5
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	0.9
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	2.9
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	19.4
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	27.4
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	46.4

Sample Name:	Motions-1 22-Jul-2025 10:00 am	Motions-2 22-Jul-2025 10:00 am	Motions-3 22-Jul-2025 10:00 am	Motions-4 22-Jul-2025 10:00 am	Motions-5 22-Jul-2025 10:00 am
Lab Number:	3945610.6	3945610.7	3945610.8	3945610.9	3945610.10

Individual Tests						
Dry Matter	g/100g as rcvd	35	37	37	-	-
Total Recoverable Phosphorus	mg/kg dry wt	760	790	750	-	-
Total Nitrogen*	g/100g dry wt	0.25	0.26	0.22	-	-
Ammonium-N*	mg/kg dry wt	20	16	37	-	-
Total Organic Carbon*	g/100g dry wt	3.0	3.1	2.6	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	26.6	-
Pheophytin a**	mg/kg as rcvd	-	-	-	24.5	-



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised. The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Sediment						
Sample Name:	Motions-1 22-Jul-2025 10:00 am	Motions-2 22-Jul-2025 10:00 am	Motions-3 22-Jul-2025 10:00 am	Motions-4 22-Jul-2025 10:00 am	Motions-5 22-Jul-2025 10:00 am	
Lab Number:	3945610.6	3945610.7	3945610.8	3945610.9	3945610.10	
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	8.6	9.0	8.5	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.21	0.24	0.30	-	-
Total Recoverable Chromium	mg/kg dry wt	22	23	21	-	-
Total Recoverable Copper	mg/kg dry wt	38	39	41	-	-
Total Recoverable Lead	mg/kg dry wt	50	50	55	-	-
Total Recoverable Mercury	mg/kg dry wt	0.21	0.26	0.23	-	-
Total Recoverable Nickel	mg/kg dry wt	13.2	12.7	13.2	-	-
Total Recoverable Zinc	mg/kg dry wt	210	220	250	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	38
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	0.8
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	0.4
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	0.6
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	1.6
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	8.5
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	9.5
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	78.6
Sample Name:	Hobsons Bay-1 22-Jul-2025 12:30 pm	Hobsons Bay-2 22-Jul-2025 12:30 pm	Hobsons Bay-3 22-Jul-2025 12:30 pm	Hobsons Bay-4 22-Jul-2025 12:30 pm	Hobsons Bay-5 22-Jul-2025 12:30 pm	
Lab Number:	3945610.11	3945610.12	3945610.13	3945610.14	3945610.15	
Individual Tests						
Dry Matter	g/100g as rcvd	72	70	70	-	-
Total Recoverable Phosphorus	mg/kg dry wt	450	430	440	-	-
Total Nitrogen*	g/100g dry wt	< 0.05	< 0.05	< 0.05	-	-
Ammonium-N*	mg/kg dry wt	< 5	5	< 5	-	-
Total Organic Carbon*	g/100g dry wt	0.23	0.23	0.22	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	8.7	-
Pheophytin a**	mg/kg as rcvd	-	-	-	3.8	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	14.7	14.7	14.1	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.017	0.015	0.022	-	-
Total Recoverable Chromium	mg/kg dry wt	13.5	8.9	9.6	-	-
Total Recoverable Copper	mg/kg dry wt	6.2	6.2	5.8	-	-
Total Recoverable Lead	mg/kg dry wt	27	28	26	-	-
Total Recoverable Mercury	mg/kg dry wt	0.06	0.05	0.05	-	-
Total Recoverable Nickel	mg/kg dry wt	9.0	10.2	10.0	-	-
Total Recoverable Zinc	mg/kg dry wt	64	66	60	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	76
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	4.0
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	3.1
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	5.7
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	14.5
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	22.3
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	38.9
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	11.5
Sample Name:	Judges Bay-1 23-Jul-2025 10:30 am	Judges Bay-2 23-Jul-2025 10:30 am	Judges Bay-3 23-Jul-2025 10:30 am	Judges Bay-4 23-Jul-2025 10:30 am	Judges Bay-5 23-Jul-2025 10:30 am	
Lab Number:	3945610.16	3945610.17	3945610.18	3945610.19	3945610.20	
Individual Tests						
Dry Matter	g/100g as rcvd	57	56	57	-	-
Total Recoverable Phosphorus	mg/kg dry wt	480	480	540	-	-

Sample Type: Sediment						
Sample Name:	Curran St-1 23-Jul-2025 11:30 am	Curran St-2 23-Jul-2025 11:30 am	Curran St-3 23-Jul-2025 11:30 am	Curran St-4 23-Jul-2025 11:30 am	Curran St-5 23-Jul-2025 11:30 am	
Lab Number:	3945610.26	3945610.27	3945610.28	3945610.29	3945610.30	
Individual Tests						
Dry Matter	g/100g as rcvd	62	66	68	-	-
Total Recoverable Phosphorus	mg/kg dry wt	430	410	400	-	-
Total Nitrogen*	g/100g dry wt	0.05	< 0.05	< 0.05	-	-
Ammonium-N*	mg/kg dry wt	< 5	< 5	< 5	-	-
Total Organic Carbon*	g/100g dry wt	0.50	0.40	0.48	-	-
Chlorophyll a*	mg/kg as rcvd	-	-	-	15.2	-
Pheophytin a*	mg/kg as rcvd	-	-	-	9.7	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	7.1	7.2	7.6	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.050	0.044	0.053	-	-
Total Recoverable Chromium	mg/kg dry wt	12.5	12.0	13.3	-	-
Total Recoverable Copper	mg/kg dry wt	10.3	8.4	13.6	-	-
Total Recoverable Lead	mg/kg dry wt	23	19.7	49	-	-
Total Recoverable Mercury	mg/kg dry wt	0.11	0.10	0.09	-	-
Total Recoverable Nickel	mg/kg dry wt	25	24	25	-	-
Total Recoverable Zinc	mg/kg dry wt	72	65	80	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	70
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	4.3
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	2.8
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	5.0
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	18.9
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	32.4
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	19.0
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	17.6

Analyst's Comments

‡ Analysis subcontracted to an external provider. Refer to the Summary of Methods section for more details.

Appendix No.1 - Earth Sciences report

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Sediment			
Test	Method Description	Default Detection Limit	Sample No
Individual Tests			
Environmental Solids Sample Drying*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Dry Matter	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed). US EPA 3550.	0.10 g/100g as rcvd	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
2M KCl Extraction*	2M potassium chloride extraction of as received fraction for analysis of NH4N, NO2N and NO3N. Analyst, 109, 549, (1984).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28



ESNZ - NIWA Water Quality Laboratory

Gate 10 Silverdale Road Hamilton, WKO 3216

Analytical Results Report

Client: Hill Laboratories
Attn: Heron, Ara (Hill Laboratories)
Address: 28 Duke Street
 Hamilton, WKO 3204

Work Order Number: 2025000356
Project: Hills Sediment Chlorophylls
Purchase Order: PO104622 / EnvSubNIWA 2011
Report Date: 21/08/2025

Field Sample ID	Laboratory Sample ID	Matrix	Collection Date	Receive Date
3945610.4	2025000356-001	Sediment		29/07/2025
3945610.9	2025000356-002	Sediment		29/07/2025
3945610.14	2025000356-003	Sediment		29/07/2025
3945610.19	2025000356-004	Sediment		29/07/2025
3945610.24	2025000356-005	Sediment		29/07/2025
3945610.29	2025000356-006	Sediment		29/07/2025

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Approved
By:

Margaret McMonagle

Certificate of Analysis

Page 1 of 3

Client: Tonkin & Taylor	Lab No: 3792250	SPV1
Contact: Melanie Tupe	Date Received: 27-Feb-2025	
C/- Tonkin & Taylor	Date Reported: 18-Mar-2025	
PO Box 5271	Quote No: 134835	
Auckland 1141	Order No: Ross Oliver	
	Client Reference:	
	Submitted By: Ross Oliver	

Sample Type: Sediment

Sample Name:	Waterview 27-Feb-2025	Hobson's Bay 27-Feb-2025	Motions 27-Feb-2025	Cox's Bay 27-Feb-2025	Judges Bay 27-Feb-2025
Lab Number:	3792250.1	3792250.2	3792250.3	3792250.4	3792250.5

Individual Tests						
Dry Matter	g/100g as rcvd	36	74	45	60	61
Total Recoverable Phosphorus	mg/kg dry wt	580	450	640	420	520
Total Nitrogen*	g/100g dry wt	0.19	< 0.05	0.19	0.12	0.07
Ammonium-N*	mg/kg dry wt	< 7	< 5	11	< 5	< 5
Total Organic Carbon*	g/100g dry wt	1.90	0.36	2.2	1.77	0.72
Chlorophyll a**	mg/kg as rcvd	31.4	9.7	28.6	21.1	24.4
Pheophytin a**	mg/kg as rcvd	27.9	3.4	28.6	14.6	3.3
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	12.1	14.6	8.6	7.3	12.0
Total Recoverable Cadmium	mg/kg dry wt	0.039	0.026	0.37	0.29	0.072
Total Recoverable Chromium	mg/kg dry wt	23	11.4	24	17.5	15.2
Total Recoverable Copper	mg/kg dry wt	20	7.8	34	28	14.0
Total Recoverable Lead	mg/kg dry wt	30	29	55	45	37
Total Recoverable Mercury	mg/kg dry wt	0.13	0.05	0.20	0.76	0.17
Total Recoverable Nickel	mg/kg dry wt	9.0	9.6	15.1	11.0	12.9
Total Recoverable Zinc	mg/kg dry wt	119	71	270	220	89
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	40	77	46	60	67
Fraction >= 2 mm*	g/100g dry wt	0.3	3.8	7.4	2.6	4.4
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	< 0.1	2.7	4.1	0.5	2.7
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	0.2	5.4	4.1	1.0	5.2
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	0.7	11.9	5.7	3.5	18.7
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	4.5	21.2	20.1	30.9	21.9
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	8.7	40.1	15.3	38.7	17.1
Fraction < 63 µm*	g/100g dry wt	85.5	14.9	43.3	22.9	30.1

Sample Name:	Curran Street 27-Feb-2025
Lab Number:	3792250.6

Individual Tests		
Dry Matter	g/100g as rcvd	50
Total Recoverable Phosphorus	mg/kg dry wt	450
Total Nitrogen*	g/100g dry wt	0.05
Ammonium-N*	mg/kg dry wt	< 5
Total Organic Carbon*	g/100g dry wt	0.55
Chlorophyll a**	mg/kg as rcvd	15.1
Pheophytin a**	mg/kg as rcvd	8.7



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Sample Type: Sediment		
Sample Name:	Curran Street 27-Feb-2025	
Lab Number:	3792250.6	
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg		
Total Recoverable Arsenic	mg/kg dry wt	7.7
Total Recoverable Cadmium	mg/kg dry wt	0.049
Total Recoverable Chromium	mg/kg dry wt	15.4
Total Recoverable Copper	mg/kg dry wt	10.5
Total Recoverable Lead	mg/kg dry wt	23
Total Recoverable Mercury	mg/kg dry wt	0.09
Total Recoverable Nickel	mg/kg dry wt	32
Total Recoverable Zinc	mg/kg dry wt	75
7 Grain Sizes Profile as received*		
Dry Matter of Sieved Sample*	g/100g as rcvd	67
Fraction >= 2 mm*	g/100g dry wt	10.5
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	3.9
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	9.3
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	32.5
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	28.7
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	8.4
Fraction < 63 µm*	g/100g dry wt	6.7
Analyst's Comments		
‡ Analysis subcontracted to an external provider. Refer to the Summary of Methods section for more details.		
Appendix No.1 - NIWA Report		

Sample Number 2025000356-001 **Field Sample ID** 3945610.4 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	13.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	9.4	ug/g	0.0 ug/g

Sample Number 2025000356-002 **Field Sample ID** 3945610.9 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	26.6	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	24.5	ug/g	0.0 ug/g

Sample Number 2025000356-003 **Field Sample ID** 3945610.14 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	8.7	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	3.8	ug/g	0.0 ug/g

Sample Number 2025000356-004 **Field Sample ID** 3945610.19 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	24.4	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	15.2	ug/g	0.0 ug/g

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Approved
By:



Margaret McMonagle

Sample Number 2025000356-005 **Field Sample ID** 3945610.24 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	68.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	35.8	ug/g	0.0 ug/g

Sample Number 2025000356-006 **Field Sample ID** 3945610.29 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	15.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	9.7	ug/g	0.0 ug/g

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Approved
By:



Margaret McMonagle

C2 Winter monitoring results (Hills lab heavy metals, nutrients, grain size and chlorophyll a)



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Certificate of Analysis

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Client:	Tonkin & Taylor	Lab No:	3945610	SPv1
Contact:	Melanie Tupe C/- Tonkin & Taylor PO Box 5271 Auckland 1141	Date Received:	25-Jul-2025	
		Date Reported:	27-Aug-2025	
		Quote No:	134835	
		Order No:	1090872.2000	
		Client Reference:	1090872.2000	
		Submitted By:	Melanie Tupe	

Sample Type: Sediment

Sample Name:	Coxs Bay-1 22-Jul-2025 9:00 am	Coxs Bay-2 22-Jul-2025 9:00 am	Coxs Bay-3 22-Jul-2025 9:00 am	Coxs Bay-4 22-Jul-2025 9:00 am	Coxs Bay-5 22-Jul-2025 9:00 am
Lab Number:	3945610.1	3945610.2	3945610.3	3945610.4	3945610.5

Individual Tests

Dry Matter	g/100g as rcvd	64	60	59	-	-
Total Recoverable Phosphorus	mg/kg dry wt	420	410	420	-	-
Total Nitrogen*	g/100g dry wt	0.11	0.10	0.09	-	-
Ammonium-N*	mg/kg dry wt	11	11	11	-	-
Total Organic Carbon*	g/100g dry wt	1.38	1.56	1.24	-	-
Chlorophyll a*†	mg/kg as rcvd	-	-	-	13.2	-
Pheophytin a*†	mg/kg as rcvd	-	-	-	9.4	-

Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg

Total Recoverable Arsenic	mg/kg dry wt	6.6	6.6	6.3	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.26	0.23	0.24	-	-
Total Recoverable Chromium	mg/kg dry wt	14.4	14.6	15.5	-	-
Total Recoverable Copper	mg/kg dry wt	23	22	22	-	-
Total Recoverable Lead	mg/kg dry wt	44	45	41	-	-
Total Recoverable Mercury	mg/kg dry wt	0.13	0.12	0.12	-	-
Total Recoverable Nickel	mg/kg dry wt	11.6	10.6	12.2	-	-
Total Recoverable Zinc	mg/kg dry wt	200	193	189	-	-

7 Grain Sizes Profile as received*

Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	59
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	2.4
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	0.5
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	0.9
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	2.9
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	19.4
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	27.4
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	46.4

Sample Name:	Motions-1 22-Jul-2025 10:00 am	Motions-2 22-Jul-2025 10:00 am	Motions-3 22-Jul-2025 10:00 am	Motions-4 22-Jul-2025 10:00 am	Motions-5 22-Jul-2025 10:00 am
Lab Number:	3945610.6	3945610.7	3945610.8	3945610.9	3945610.10

Individual Tests

Dry Matter	g/100g as rcvd	35	37	37	-	-
Total Recoverable Phosphorus	mg/kg dry wt	760	790	750	-	-
Total Nitrogen*	g/100g dry wt	0.25	0.26	0.22	-	-
Ammonium-N*	mg/kg dry wt	20	16	37	-	-
Total Organic Carbon*	g/100g dry wt	3.0	3.1	2.6	-	-
Chlorophyll a*†	mg/kg as rcvd	-	-	-	26.6	-
Pheophytin a*†	mg/kg as rcvd	-	-	-	24.5	-



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Sample Type: Sediment						
Sample Name:	Motions-1 22-Jul-2025 10:00 am	Motions-2 22-Jul-2025 10:00 am	Motions-3 22-Jul-2025 10:00 am	Motions-4 22-Jul-2025 10:00 am	Motions-5 22-Jul-2025 10:00 am	
Lab Number:	3945610.6	3945610.7	3945610.8	3945610.9	3945610.10	
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	8.6	9.0	8.5	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.21	0.24	0.30	-	-
Total Recoverable Chromium	mg/kg dry wt	22	23	21	-	-
Total Recoverable Copper	mg/kg dry wt	38	39	41	-	-
Total Recoverable Lead	mg/kg dry wt	50	50	55	-	-
Total Recoverable Mercury	mg/kg dry wt	0.21	0.26	0.23	-	-
Total Recoverable Nickel	mg/kg dry wt	13.2	12.7	13.2	-	-
Total Recoverable Zinc	mg/kg dry wt	210	220	250	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	38
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	0.8
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	0.4
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	0.6
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	1.6
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	8.5
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	9.5
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	78.6
Sample Name:	Hobsons Bay-1 22-Jul-2025 12:30 pm	Hobsons Bay-2 22-Jul-2025 12:30 pm	Hobsons Bay-3 22-Jul-2025 12:30 pm	Hobsons Bay-4 22-Jul-2025 12:30 pm	Hobsons Bay-5 22-Jul-2025 12:30 pm	
Lab Number:	3945610.11	3945610.12	3945610.13	3945610.14	3945610.15	
Individual Tests						
Dry Matter	g/100g as rcvd	72	70	70	-	-
Total Recoverable Phosphorus	mg/kg dry wt	450	430	440	-	-
Total Nitrogen*	g/100g dry wt	< 0.05	< 0.05	< 0.05	-	-
Ammonium-N*	mg/kg dry wt	< 5	5	< 5	-	-
Total Organic Carbon*	g/100g dry wt	0.23	0.23	0.22	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	8.7	-
Pheophytin a**	mg/kg as rcvd	-	-	-	3.8	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	14.7	14.7	14.1	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.017	0.015	0.022	-	-
Total Recoverable Chromium	mg/kg dry wt	13.5	8.9	9.6	-	-
Total Recoverable Copper	mg/kg dry wt	6.2	6.2	5.8	-	-
Total Recoverable Lead	mg/kg dry wt	27	28	26	-	-
Total Recoverable Mercury	mg/kg dry wt	0.06	0.05	0.05	-	-
Total Recoverable Nickel	mg/kg dry wt	9.0	10.2	10.0	-	-
Total Recoverable Zinc	mg/kg dry wt	64	66	60	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	76
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	4.0
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	3.1
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	5.7
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	14.5
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	22.3
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	38.9
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	11.5
Sample Name:	Judges Bay-1 23-Jul-2025 10:30 am	Judges Bay-2 23-Jul-2025 10:30 am	Judges Bay-3 23-Jul-2025 10:30 am	Judges Bay-4 23-Jul-2025 10:30 am	Judges Bay-5 23-Jul-2025 10:30 am	
Lab Number:	3945610.16	3945610.17	3945610.18	3945610.19	3945610.20	
Individual Tests						
Dry Matter	g/100g as rcvd	57	56	57	-	-
Total Recoverable Phosphorus	mg/kg dry wt	480	480	540	-	-

Sample Type: Sediment						
Sample Name:	Judges Bay-1 23-Jul-2025 10:30 am	Judges Bay-2 23-Jul-2025 10:30 am	Judges Bay-3 23-Jul-2025 10:30 am	Judges Bay-4 23-Jul-2025 10:30 am	Judges Bay-5 23-Jul-2025 10:30 am	
Lab Number:	3945610.16	3945610.17	3945610.18	3945610.19	3945610.20	
Individual Tests						
Total Nitrogen*	g/100g dry wt	< 0.13	< 0.12	< 0.13	-	-
Ammonium-N*	mg/kg dry wt	< 5	< 5	< 5	-	-
Total Organic Carbon*	g/100g dry wt	0.63	0.61	0.73	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	24.4	-
Pheophytin a**	mg/kg as rcvd	-	-	-	15.2	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	10.2	10.9	12.5	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.053	0.053	0.073	-	-
Total Recoverable Chromium	mg/kg dry wt	11.9	13.5	15.0	-	-
Total Recoverable Copper	mg/kg dry wt	11.9	12.7	14.6	-	-
Total Recoverable Lead	mg/kg dry wt	31	29	38	-	-
Total Recoverable Mercury	mg/kg dry wt	0.22	0.20	0.24	-	-
Total Recoverable Nickel	mg/kg dry wt	7.9	9.4	10.8	-	-
Total Recoverable Zinc	mg/kg dry wt	76	81	97	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	60
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	3.3
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	2.1
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	4.5
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	16.1
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	19.8
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	18.2
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	35.9
Sample Name:	Waterview-1 23-Jul-2025 8:30 am	Waterview-2 23-Jul-2025 8:30 am	Waterview-3 23-Jul-2025 8:30 am	Waterview-4 23-Jul-2025 8:30 am	Waterview-5 23-Jul-2025 8:30 am	
Lab Number:	3945610.21	3945610.22	3945610.23	3945610.24	3945610.25	
Individual Tests						
Dry Matter	g/100g as rcvd	33	32	29	-	-
Total Recoverable Phosphorus	mg/kg dry wt	620	760	570	-	-
Total Nitrogen*	g/100g dry wt	0.26	0.28	0.22	-	-
Ammonium-N*	mg/kg dry wt	< 8	< 8	< 8	-	-
Total Organic Carbon*	g/100g dry wt	2.5	2.7	2.4	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	68.2	-
Pheophytin a**	mg/kg as rcvd	-	-	-	35.8	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	11.9	14.1	11.6	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.047	0.056	0.050	-	-
Total Recoverable Chromium	mg/kg dry wt	22	26	20	-	-
Total Recoverable Copper	mg/kg dry wt	22	25	21	-	-
Total Recoverable Lead	mg/kg dry wt	29	35	28	-	-
Total Recoverable Mercury	mg/kg dry wt	0.13	0.15	0.12	-	-
Total Recoverable Nickel	mg/kg dry wt	8.8	10.7	8.6	-	-
Total Recoverable Zinc	mg/kg dry wt	129	144	122	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	35
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	< 0.1
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	< 0.1
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	< 0.1
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	0.1
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	0.9
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	3.5
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	95.3

Sample Type: Sediment						
Sample Name:	Curran St-1 23-Jul-2025 11:30 am	Curran St-2 23-Jul-2025 11:30 am	Curran St-3 23-Jul-2025 11:30 am	Curran St-4 23-Jul-2025 11:30 am	Curran St-5 23-Jul-2025 11:30 am	
Lab Number:	3945610.26	3945610.27	3945610.28	3945610.29	3945610.30	
Individual Tests						
Dry Matter	g/100g as rcvd	62	66	68	-	-
Total Recoverable Phosphorus	mg/kg dry wt	430	410	400	-	-
Total Nitrogen*	g/100g dry wt	0.05	< 0.05	< 0.05	-	-
Ammonium-N*	mg/kg dry wt	< 5	< 5	< 5	-	-
Total Organic Carbon*	g/100g dry wt	0.50	0.40	0.48	-	-
Chlorophyll a**	mg/kg as rcvd	-	-	-	15.2	-
Pheophytin a**	mg/kg as rcvd	-	-	-	9.7	-
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg						
Total Recoverable Arsenic	mg/kg dry wt	7.1	7.2	7.6	-	-
Total Recoverable Cadmium	mg/kg dry wt	0.050	0.044	0.053	-	-
Total Recoverable Chromium	mg/kg dry wt	12.5	12.0	13.3	-	-
Total Recoverable Copper	mg/kg dry wt	10.3	8.4	13.6	-	-
Total Recoverable Lead	mg/kg dry wt	23	19.7	49	-	-
Total Recoverable Mercury	mg/kg dry wt	0.11	0.10	0.09	-	-
Total Recoverable Nickel	mg/kg dry wt	25	24	25	-	-
Total Recoverable Zinc	mg/kg dry wt	72	65	80	-	-
7 Grain Sizes Profile as received*						
Dry Matter of Sieved Sample*	g/100g as rcvd	-	-	-	-	70
Fraction >= 2 mm*	g/100g dry wt	-	-	-	-	4.3
Fraction < 2 mm, >= 1 mm*	g/100g dry wt	-	-	-	-	2.8
Fraction < 1 mm, >= 500 µm*	g/100g dry wt	-	-	-	-	5.0
Fraction < 500 µm, >= 250 µm*	g/100g dry wt	-	-	-	-	18.9
Fraction < 250 µm, >= 125 µm*	g/100g dry wt	-	-	-	-	32.4
Fraction < 125 µm, >= 63 µm*	g/100g dry wt	-	-	-	-	19.0
Fraction < 63 µm*	g/100g dry wt	-	-	-	-	17.6

Analyst's Comments

‡ Analysis subcontracted to an external provider. Refer to the Summary of Methods section for more details.

Appendix No.1 - Earth Sciences report

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Sediment			
Test	Method Description	Default Detection Limit	Sample No
Individual Tests			
Environmental Solids Sample Drying*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Dry Matter	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed). US EPA 3550.	0.10 g/100g as rcvd	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
2M KCl Extraction*	2M potassium chloride extraction of as received fraction for analysis of NH4N, NO2N and NO3N. Analyst, 109, 549, (1984).	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28

Sample Type: Sediment			
Test	Method Description	Default Detection Limit	Sample No
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2 (modified), APHA 3125 B: Online Edition.	-	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Total Recoverable Phosphorus	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2 (modified), APHA 3125 B: Online Edition.	40 mg/kg dry wt	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Total Nitrogen*	Catalytic Combustion (900°C, O ₂), separation, Thermal Conductivity Detector [Elementar Analyser].	0.05 g/100g dry wt	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Ammonium-N*	2M potassium chloride extraction on as received fraction. Phenol/hypochlorite colorimetry. Flow Injection Analyser. APHA 4500-NH ₃ H (modified) : Online Edition.	5 mg/kg dry wt	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Total Organic Carbon*	Acid pretreatment to remove carbonates present followed by Catalytic Combustion (O ₂), separation, Thermal Conductivity Detector [Elementar Analyser].	0.05 g/100g dry wt	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
Chlorophyll a*	Extraction with 95% Ethanol, Spectroscopy. Subcontracted to NIWA, Hamilton. In-house.	0.1 mg/kg as rcvd	4, 9, 14, 19, 24, 29
Pheophytin a*	Extraction with 95% Ethanol, Spectroscopy. Subcontracted to NIWA, Hamilton. In-house.	0.1 mg/kg as rcvd	4, 9, 14, 19, 24, 29
Chlorophyll a and Pheophytin a*		0.1 mg/kg as rcvd	4, 9, 14, 19, 24, 29
Heavy metals, trace As,Cd,Cr,Cu,Ni,Pb,Zn,Hg	Dried sample, <2mm fraction. Nitric/Hydrochloric acid digestion, ICP-MS, trace level.	0.010 - 0.8 mg/kg dry wt	1-3, 6-8, 11-13, 16-18, 21-23, 26-28
7 Grain Sizes Profile as received			
Dry Matter for Grainsize samples (sieved as received)*	Drying for 16 hours at 103°C, gravimetry (Free water removed before analysis).	0.10 g/100g as rcvd	5, 10, 15, 20, 25, 30
Fraction >= 2 mm*	Wet sieving with dispersant, as received, 2.00 mm sieve, gravimetry.	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 2 mm, >= 1 mm*	Wet sieving using dispersant, as received, 2.00 mm and 1.00 mm sieves, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 1 mm, >= 500 µm*	Wet sieving using dispersant, as received, 1.00 mm and 500 µm sieves, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 500 µm, >= 250 µm*	Wet sieving using dispersant, as received, 500 µm and 250 µm sieves, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 250 µm, >= 125 µm*	Wet sieving using dispersant, as received, 250 µm and 125 µm sieves, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 125 µm, >= 63 µm*	Wet sieving using dispersant, as received, 125 µm and 63 µm sieves, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30
Fraction < 63 µm*	Wet sieving with dispersant, as received, 63 µm sieve, gravimetry (calculation by difference).	0.1 g/100g dry wt	5, 10, 15, 20, 25, 30

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 25-Jul-2025 and 27-Aug-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

Ara Heron BSc (Tech)
Client Services Manager - Environmental

Sample Number 2025000356-001 **Field Sample ID** 3945610.4 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	13.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	9.4	ug/g	0.0 ug/g

Sample Number 2025000356-002 **Field Sample ID** 3945610.9 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	26.6	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	24.5	ug/g	0.0 ug/g

Sample Number 2025000356-003 **Field Sample ID** 3945610.14 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	8.7	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	3.8	ug/g	0.0 ug/g

Sample Number 2025000356-004 **Field Sample ID** 3945610.19 **Work Order Number** 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	24.4	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	15.2	ug/g	0.0 ug/g

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Approved
By:



Margaret McMonagle

Sample Number 2025000356-005 **Field Sample ID** 3945610.24 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	68.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	35.8	ug/g	0.0 ug/g

Sample Number 2025000356-006 **Field Sample ID** 3945610.29 2025000356 (MX 2218)

Parameter	Analytical Method		Result	Units	Detection Limit
Chla	Chlorophyll - Sediments	In-House Sed Chla	15.2	ug/g	0.01 ug/g
Phaeo	Chlorophyll - Sediments	In-House Sed Chla	9.7	ug/g	0.0 ug/g

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Approved
By:



Margaret McMonagle

C3 Summer monitoring results (ESR – Fluorescent whitening agent)



FINAL REPORT - FOOD CHEMISTRY LABORATORY

21 March 2025

Attention: Melanie Tupe
To: Tonkin & Taylor Ltd

1 Fanshawe Street
AUCKLAND

Date/Time Collected:		Client PO #/Ref:	
Date/Time Received:	3 March 2025 16:58		
Temperature at Receipt:	Chilled		
Sampled By:			
Date/Time Tested:	17 March 2025		

ESR Sample Ref:	25FC0034-001-0	Client Sample Ref:	Coxs Bay 25-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	52.8	ppb

ESR Sample Ref:	25FC0034-002-0	Client Sample Ref:	Hobson Bay 25-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	2.0	ppb

ESR Sample Ref:	25FC0034-003-0	Client Sample Ref:	Motions 25-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	35.9	ppb

ESR Reference: 25FC0034 Report ID:764879

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ESR Sample Ref:	25FC0034-004-0	Client Sample Ref:	Curran Street 27-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	1.5	ppb

ESR Sample Ref:	25FC0034-005-0	Client Sample Ref:	Judges Bay 27-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	14.3	ppb

ESR Sample Ref:	25FC0034-006-0	Client Sample Ref:	Waterview 27-2-25 FWA
Sample Description:	Marine sediment		

Test:	Result:	
- Fluorescent Whitener #1	1.1	ppb

Report comments

Received, six chilled, sealed bottles of marine sediments. The client requested that the samples be tested for Fluorescent Whitening Agents (FWAs).

The marine sediment samples were mixed, centrifuged and the liquid portion was discarded. The sediment was then dried and tested for fluorescent whitener number one by ultra High Performance Liquid Chromatography (uHPLC). The results give the concentration of fluorescent whitener number one in the dried sediment (ppb = µg/kg).

Results apply to samples as received.

Reported by: S.W
Scientist
Food Chemistry Laboratory

Enquiries: chemistry@esr.cri.nz

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www.esr.cri.nz

C4 Winter monitoring results (ESR – Fluorescent whitening agent)



FINAL REPORT - FOOD CHEMISTRY LABORATORY

20 August 2025

Attention: Ross Oliver
To: Tonkin & Taylor Ltd

1 Fanshawe Street
AUCKLAND 1010

Date/Time Collected:	22 July 2025	Client PO #/Ref:	1090872.2000
Date/Time Received:	25 July 2025 10:06		
Temperature at Receipt:	Chilled		
Sampled By:			
Date/Time Tested:	7 August 2025		

PHF Science Ref:	25FC0106-001-0	Client Sample Ref:	Cox's Bay
Sample Description:	Marine Sediment		

Test:	Result:	
- Fluorescent Whitener #1	41.8	ppb

PHF Science Ref:	25FC0106-002-0	Client Sample Ref:	Motions
Sample Description:	Marine Sediment		

Test:	Result:	
- Fluorescent Whitener #1	55.9	ppb

PHF Science Ref:	25FC0106-003-0	Client Sample Ref:	Hobson Bay
Sample Description:	Marine Sediment		

Test:	Result:	
- Fluorescent Whitener #1	1.1	ppb

Appendix D Redox Potential Discontinuity results and photographs

D1 RPD results

Table Appendix D.1: Sediment redox potential discontinuity depth (RPD) (mm)

Site	Sample location	Summer	Winter
Motions Creek	1	45	20
Motions Creek	3	100	NA
Motions Creek	4	5	20
Motions Creek	6	90	5
Waterview	1	80	45
Waterview	3	40	10
Waterview	4	50	25
Waterview	6	55	5
Coxs Bay	1	40	15
Coxs Bay	3	55	30
Coxs Bay	4	80	65
Coxs Bay	6	60	5
Curran St	1	30	10
Curran St	3	20	15
Curran St	4	25	20
Curran St	6	15	10
Hobson Bay	1	20	15
Hobson Bay	3	90	5
Hobson Bay	4	90	15
Hobson Bay	6	60	25
Judges Bay	1	25	30
Judges Bay	3	50	10
Judges Bay	4	50	25
Judges Bay	6	40	15

D2 Summer RPD core photos

<p><i>Photograph Appendix D.1: Summer Hobson Bay RPD – Site 1</i></p>	<p><i>Photograph Appendix D.2: Summer Hobson Bay RPD – Site 3</i></p>	<p><i>Photograph Appendix D.3: Summer Hobson Bay RPD – Site 4</i></p>	<p><i>Photograph Appendix D.4: Summer Hobson Bay RPD – Site 6</i></p>
<p><i>Photograph Appendix D.5: Summer Judges Bay RPD – Site 1</i></p>	<p><i>Photograph Appendix D.6: Summer Judges Bay RPD – Site 3</i></p>	<p><i>Photograph Appendix D.7: Summer Judges Bay RPD – Site 4</i></p>	<p><i>Photograph Appendix D.8: Summer Judges Bay RPD – Site 6</i></p>
<p><i>Photograph Appendix D.9: Summer Curran St RPD – Site 1</i></p>	<p><i>Photograph Appendix D.10: Summer Curran St RPD – Site 3</i></p>	<p><i>Photograph Appendix D.11: Summer Curran St RPD – Site 4</i></p>	<p><i>Photograph Appendix D.12: Summer Curran St RPD – Site 6</i></p>



Photograph Appendix D.13: Summer Coxs Bay RPD – Site 1



Photograph Appendix D.14: Summer Coxs Bay RPD – Site 3



Photograph Appendix D.15: Summer Coxs Bay RPD – Site 4



Photograph Appendix D.16: Summer Coxs Bay RPD – Site 6



Photograph Appendix D.17: Summer Motions Creek RPD – Site 1



Photograph Appendix D.18: Summer Motions Creek RPD – Site 3



Photograph Appendix D.19: Summer Motions Creek RPD – Site 4



Photograph Appendix D.20: Summer Motions Creek RPD – Site 6



Photograph Appendix D.21: Summer Waterview RPD – Site 1



Photograph Appendix D.22: Summer Waterview RPD – Site 3



Photograph Appendix D.23: Summer Waterview RPD – Site 4

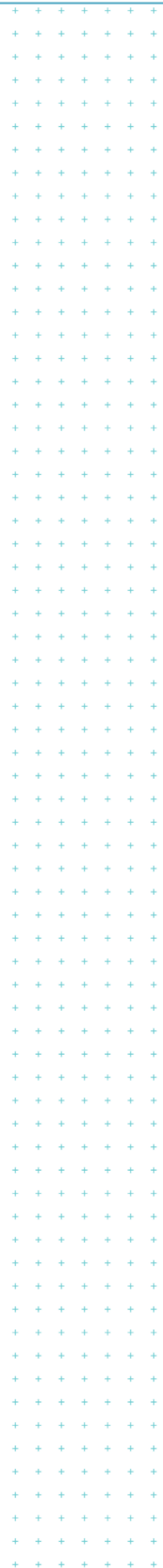


Photograph Appendix D.24: Summer Waterview RPD – Site 6

D3 Winter RPD core photos

<p><i>Photograph Appendix D.25: Winter Hobson Bay RPD – Site 1</i></p>	<p><i>Photograph Appendix D.26: Winter Hobson Bay RPD – Site 3</i></p>	<p><i>Photograph Appendix D.27: Winter Hobson Bay RPD – Site 4</i></p>	<p><i>Photograph Appendix D.28: Winter Hobson Bay RPD – Site 6</i></p>
<p><i>Photograph Appendix D.29: Winter Judges Bay RPD – Site 1</i></p>	<p><i>Photograph Appendix D.30: Winter Judges Bay RPD – Site 3</i></p>	<p><i>Photograph Appendix D.31: Winter Judges Bay RPD – Site 4</i></p>	<p><i>Photograph Appendix D.32: Winter Judges Bay RPD – Site 6</i></p>
<p><i>Photograph Appendix D.33: Winter Curran St RPD – Site 1</i></p>	<p><i>Photograph Appendix D.34: Winter Curran St RPD – Site 3</i></p>	<p><i>Photograph Appendix D.35: Winter Curran St RPD – Site 4</i></p>	<p><i>Photograph Appendix D.36: Winter Curran St RPD – Site 6</i></p>

<p>Photograph Appendix D.37: Winter Coxs Bay RPD – Site 1</p>	<p>Photograph Appendix D.38: Winter Coxs Bay RPD – Site 3</p>	<p>Photograph Appendix D.39: Winter Coxs Bay RPD – Site 4</p>	<p>Photograph Appendix D.40: Winter Coxs Bay RPD – Site 6</p>
<p>Photograph Appendix D.41: Winter Motions Creek RPD – Site 1</p>	<p>Photograph Appendix D.42: Winter Motions Creek RPD – Site 3</p>	<p>Photograph Appendix D.43: Winter Motions Creek RPD – Site 4</p>	<p>Photograph Appendix D.44: Winter Motions Creek RPD – Site 6</p>
<p>Photograph Appendix D.45: Winter Waterview RPD – Site 1</p>	<p>Photograph Appendix D.46: Winter Waterview RPD – Site 3</p>	<p>Photograph Appendix D.47: Winter Waterview RPD – Site 4</p>	<p>Photograph Appendix D.48: Winter Waterview RPD – Site 6</p>



Targeted Monitoring Programme (TMP) Pilot Study-Draft

Pilot 2024

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1 Introduction

1.1 Background

The **Targeted Monitoring Programme (TMP)** evolution reflects several stages of development, including initial approvals and subsequent revisions. The foundational document, prepared by NIWA in June 2015, laid out the original framework for monitoring, and it received its initial approval in June 2015. Recognizing the need for a more cost-effective approach, Watercare revised this programme in August 2016, which was approved by Auckland Council in November 2016.

Following inconclusive results from the first stage of monitoring—focused on water quality and ecological sampling across three catchments—Watercare trailed continuous water quality monitoring approach with online probes. These probes have been deployed to gather more comprehensive data. Independent ecological assessments are now being conducted by AECOM and Tonkin & Taylor (T+T) to enhance the TMP.

1.2 Approach

This document outlines the **TMP** developed as part of the wastewater overflow discharge assessment in accordance with resource consent **R/REG/2013/3743** and **R/REG/2013/3755**. The TMP seeks to assess the ecological impacts of wastewater overflows on surrounding environments, focusing on high-risk areas. The plan follows a two-phase approach:

- **Phase 1:** Development of a Pilot Monitoring Plan based on ecological risk and site selection criteria
- **Phase 2:** Implementation of the Pilot Monitoring Programme to validate the Phase 1 approach and refine the plan for full-scale monitoring.

This TMP is designed to assess ecological changes over time in response to overflow discharges, with monitoring required for a minimum of three years and a maximum of five years.

1.3 Scope

The TMP aims to evaluate the ecological impacts of Watercare's wastewater overflow discharges on receiving environments by implementing routine, targeted monitoring. The monitoring will assess whether ecological effects are consistent with the risk categories assigned to each site, as outlined in **Attachment 5**¹.

Key assumptions used in developing the pilot monitoring plan include:

- **Focus on high-risk overflows:** High and very high-risk overflows are most likely to show measurable ecological effects. The monitoring plan focuses on these areas to prioritize resources and ensure that the most impactful sites are observed
- **Routine vs. event-based monitoring:** Routine monitoring is proposed as opposed to event-based monitoring, to better understand long-term changes and trends over time rather than focusing on isolated incidents

¹ Auckland Council (2016) Attachment 5: Methodology for the Assessment of Effects on Wet Weather Wastewater Overflows.

- **Pilot study duration:** The pilot study is designed to run for one year. This allows for comprehensive data collection across different seasons and environmental conditions, providing a clearer picture of the overall impacts
- **Comprehensive biological indices:** The pilot study will include as many biological indices as possible. These will be analysed to statistically determine which indices show responses to wastewater overflows. The selected indices will then be used to develop a full monitoring plan for the wider project (Phase 2)
- **Parameter and method selection:** The pilot study will allow for the selection of the most effective monitoring parameters and methods, ensuring that future monitoring efforts are targeted and efficient

Seven receiving environment types were identified for monitoring², including **Basins, Beaches, Estuaries, Harbours, Large Waterways, Small Waterways, and Freshwater Wetlands.**

DRAFT

² NIWA (2015) Targeted Monitoring Programme for Auckland Wastewater Network Comprehensive Discharge Consent (NDC) Prepared for Watercare.

2 Methodology

2.1 Site selection

The selection of monitoring sites was based on ecological risk data derived from the **Simple EOP Database (6 June 2024)**, which includes metadata such as ecological risk and environment type. The following criteria guided site selection:

- Target "High" and "Very High" Ecological Risk sites
- A mix of low, moderate, and high overflow volumes triggering significant ecological risk
- Sites with existing Water quality monitoring (including continuous monitoring data or State of the Environment) where possible
- Accessibility for monitoring, ensuring safe and efficient data collection
- Representative samples of different ecological classes, including streambed substrates (hard and soft bottom)

Watercare has confirmed that **Central Interceptor sites** are part of the TMP. Final site selections will be confirmed based on ecological risk assessments and improvements identified in the latest data.

Final site selection and comparison to the number of receiving environment sites can be found in Appendix A (Table 1 and 2).

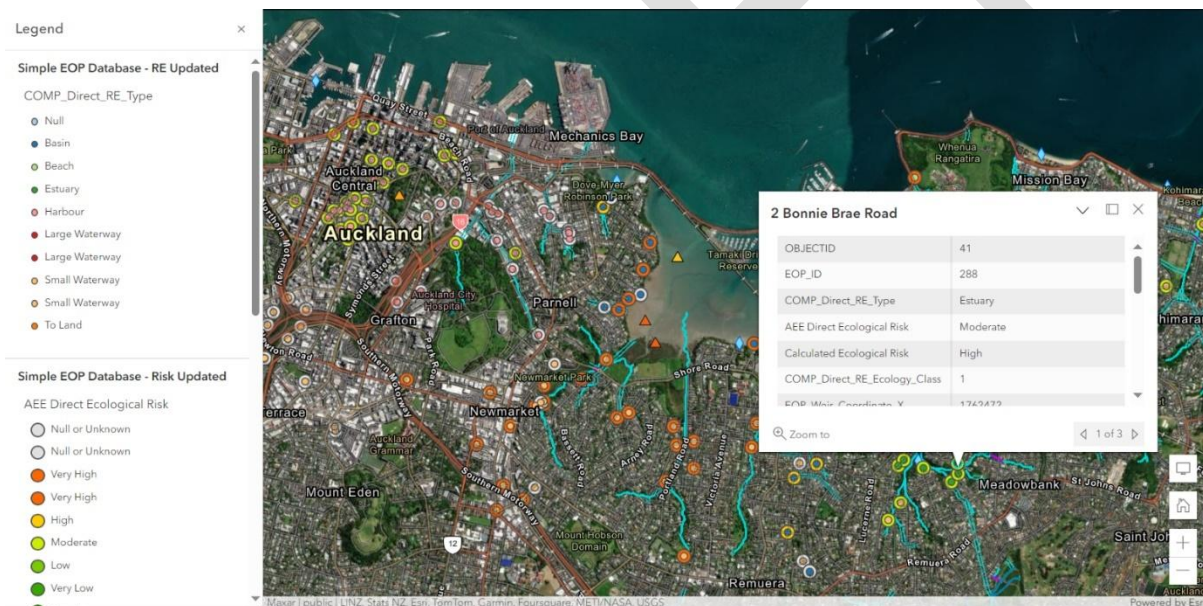


Figure 1- Screenshot of EOP database uploaded to T+T WebMaps to aid site selection

2.2 Monitoring parameters

The following parameters and methodologies were identified for Small Waterways, Estuaries, Basins, and Beaches.

2.2.1 Small waterways

Key drivers: Water quality, habitat availability, and geomorphic processes.

Parameters and metrics for Pilot Monitoring of small waterways

- **Rapid Habitat Assessment (RHA) (Clapcott, 2015):** A rapid assessment tool for evaluating physical habitat conditions at the site. Results from this assessment help interpret macroinvertebrate findings and detect physical habitat changes.
- **Macroinvertebrates:** These are well-established bioindicators of ecological health, widely used to assess environmental conditions. For this pilot, quantitative sampling is preferred, as it provides a more precise measure of impacts, particularly when comparing upstream and downstream sites. To accurately attribute any observed effects to wastewater overflows, it is essential that the habitat characteristics at these sites are similar. The key metrics to be measured include taxonomic richness, abundance, and community indices, following established protocols that depend on the type of substrate present, as outlined in Stark et al. (2001).
- **Periphyton and Algae (Nutrient Response):** These primary producers, which respond directly to nutrient inputs, will be monitored visually and through chlorophyll analysis, following the methodology of Biggs and Kilroy (2000). In addition, the use of artificial tiles is proposed, as they allow for replicate sampling—three tiles per site—to assess colonisation rates and community structure over time. These tiles would be left in place for at least two weeks, providing a more consistent measure of algal growth and nutrient response in the waterways.
- **Diatoms:** known for their sensitivity to changes in water quality and often serve as early indicators of environmental stress, such as eutrophication and organic pollution (Besse-Lototskaya et al., 2011). The pilot will measure metrics such as the Percentage Pollution Tolerant Value (%PTV), which is effective in assessing organic pollution. This approach has recently been extended to include saline environments. Sampling is proposed 1-2 weeks following wet weather overflow events, a method currently being applied at Wellsford WWTP. Diatoms offer a rapid, reliable indication of changes in water quality conditions.
- **Water quality parameters:** Include pH, temperature, electrical conductivity, dissolved oxygen, clarity, total suspended solids, biochemical oxygen demand, ammoniacal-nitrogen, nitrate, nitrite, total nitrogen, dissolved reactive phosphorus and *Escherichia coli*.
- **Real-time water quality monitoring:** The pilot phase includes a provision for continuous monitoring technologies that provide real-time data. AquaWatch devices (such as Waka or similar) continuously track key parameters such as dissolved oxygen, turbidity, temperature, pH, and electrical conductivity. These devices can be installed above and below discharge points, then data is transmitted to a user-friendly dashboard and stored long-term, making it accessible for trend analysis and regulatory reporting. The pilot phase will be used to test the predictive capacity of the continuous monitoring parameters to indicate ecological health.
- **Excluded parameters:** Fish assessments are excluded from this pilot study, primarily due to the labour-intensive nature of the methods involved and the difficulty in linking fish population changes directly to wastewater overflow effects. Although eDNA testing offers a less labour-intensive alternative, it would only provide information on the presence or absence of fish species, making it challenging to detect community differences between upstream and

downstream sites. NIWA has similarly excluded fish surveys from their Targeted Monitoring Plan (TMP), further supporting this decision.

2.2.2 Estuaries, basins and beaches

Key drivers: water quality, habitat suitability, and organic enrichment

The focus of this monitoring plan is on high-risk Ecological Overflow Points (EOPs) located in estuaries, basins, and beaches. The T+T WebMaps tool highlights that most of these EOPs are adjacent to environments suited for estuarine monitoring, aligning with protocols adopted by Auckland Council for State of Environment (SOE) monitoring. This alignment allows for comparison between EOP sites and control sites monitored under the SOE program, enabling a comprehensive evaluation of ecological impacts.

Monitoring will focus on intertidal mud and sandflats, utilising a standardized 12-sector grid system over an area of 6,000 to 9,000 square meters. Sites will be selected to avoid mangroves where possible. Seasonal monitoring will occur twice annually (summer and winter) to capture any changes in ecological health, particularly with respect to nuisance plant growth.

Drivers and Response Variables

This monitoring plan assesses key drivers and their ecological responses, focusing on:

- **Drivers:** Water quality (including organic enrichment and metal contaminants) and benthic habitat suitability.
- **Response Variables:** Benthic health indices, including species diversity, abundance, sediment size distribution, contaminant levels, and macroalgal coverage.

The following parameters will be applied across estuarine, basin, and beach sites:

- **Benthic macrofauna:** Macrofaunal communities are critical indicators of estuarine health. Sampling will involve collecting one macrofaunal core (13 cm diameter to 15 cm depth) from a random location within each of the 12 grid sectors per site. Cores will be sieved using a 0.5 mm mesh and preserved with 99% isopropyl alcohol. The samples will be sent for sorting and identification by qualified taxonomists, following Auckland Council's SOE methodologies. Common bivalve species, where applicable, will also be measured and categorised into size classes. Macrofaunal cores will be spaced at least 5 meters apart to prevent localised population disturbance from previous sampling events.
- **Sediment quality and contaminants:** Sampling for contaminants will follow protocols outlined in the Regional Sediment Chemistry Monitoring Programme (RSCMP) (Mills et al., 2012). Grain size analysis will also be conducted using wet sieving techniques. Sediment quality will be analysed for the following parameters:
 - **Metal contaminants:** Essential for tracking pollution from urban runoff and industrial sources
 - **Chlorophyll a:** Indicative of primary productivity and potential eutrophication
 - **Total organic carbon, total nitrogen, and total phosphorus:** Provide insight into nutrient loading and organic enrichment
 - **Pharmaceutical and personal care products and fluorescent whitening agents:** These are wastewater-specific tracers that will help identify the extent of contamination linked to overflow events. Sampling methods will align with those used in Stewart et al. (2009), with

potential collaboration with teams currently studying emerging organic contaminants in the Whau River catchment.

- **Visual assessments:** Will be carried out to identify the presence and extent of nuisance plant growth (e.g., diatom mats, macroalgae). This will provide additional context for understanding shifts in benthic habitat quality. The presence of *Beggiatoa spp* (a bacteria group associated with nutrient pollution) will also be recorded, although its occurrence is expected closer to the EOP discharge points rather than within the monitored areas
- **Seasonal and site-specific considerations:** Seasonal monitoring during summer and winter will allow the detection of any temporal fluctuations in benthic health and plant growth. All proposed monitoring sites will be verified during Phase 2 of the project to ensure they have suitable intertidal habitats for establishing the 12-sector grid system. Site accessibility will also be confirmed, with boat access considered where necessary.

The methodology employed in this monitoring plan is designed to be consistent with Auckland Council's SOE protocols. This consistency ensures that data collected through the TMP pilot study can be compared to control sites monitored under the SOE program. Such comparisons will help test assumptions regarding the ecological effects of wet weather overflows, as outlined in the "Attachment 5 Methodology for the Assessment of Effects of Wet Weather Overflows"³.

This approach is designed to establish a reliable baseline for assessing the ecological impacts of wastewater overflows in estuarine, basin, and beach environments. Through this Pilot study, the most effective parameters and methods will be identified for use in future, long-term monitoring efforts.

³ Auckland Council (2016) Attachment 5: Methodology for the Assessment of Effects on Wet Weather Wastewater Overflows.

3 Monitoring Approach and Data Analysis

Monitoring will take place quarterly for streams and biannually (in summer and winter) for estuaries, basins, and beaches over the course of one year for the Pilot Study. The aim is to capture both environmental and biological changes, with a focus on identifying the biological indices that best reflect ecological responses to overflow events.

3.1 Small waterways

The Pilot study propose quarterly monitoring over the course of one year. The focus will be on investigating effects on both environmental and biological variables, including changes in water quality and shifts in macroinvertebrate and diatom community composition. Statistical analysis, both univariate and multivariate, will be used to compare upstream and downstream sites, with the aim of identifying which biological indices and parameters best show measurable effects from wastewater overflows. In addition, the Pilot study will aim to test the use of continues monitoring of *in situ* parameters to predict ecological health.

3.2 Estuaries, basins and beaches

For estuarine and marine sites, seasonal monitoring (summer and winter) will capture potential changes in nuisance plant growth and sediment conditions. Monitoring will align with Auckland Council State of Environment (SOE) monitoring protocols where applicable to ensure comparability.

4 Reporting

At the conclusion of the Pilot study, an **Annual Monitoring Report** will be prepared. The report will provide an overview of the monitoring outcomes of the Pilot study. The key elements of the report will include:

- Evaluation of water quality biological parameters across sites: The evaluation will compare how well the biological indices worked across different environments (small waterways vs. estuaries, basins, and beaches) and at upstream vs. downstream locations. This will help to determine whether certain indices are better suited for environments or overflow scenarios.
- Effectiveness of continuous water quality monitoring: the report will discuss the effectiveness of real-time data collection in predicting ecological health and whether it could be integrated into the full-scale TMP.
- Recommendations for full-scale monitoring: Based on the findings of the Pilot Study, this section will provide detailed recommendations for implementing full-scale monitoring under the TMP. Recommendation will include:
 - Refinement of monitoring methods: Recommendations on improving monitoring methods will be made based on the Pilot Study results. This may involve suggesting adjustments to the frequency of monitoring, the selection of biological indices, or the inclusion of additional parameters (e.g., sediment quality, water temperature) to better capture the effects of overflows
 - Site Selection for full-scale monitoring: The report will recommend which sites should continue to be monitored and whether additional sites should be included in the full-scale TMP. This will be based on which environments were most affected by overflows and where further data is needed
 - Long-term monitoring strategies: Recommendations will address the need for long-term monitoring to detect gradual or cumulative effects of overflows. The report will outline strategies for tracking changes over multiple years (three to five years), ensuring the TMP can identify both immediate and long-term ecological impact
 - Integration with other monitoring programmes: The report will suggest how the TMP can align with existing monitoring programmes, such as SOE monitoring
 - Management and mitigation: Based on the findings, the report may provide preliminary recommendation for managing and mitigating the effects of overflows. This may include suggestions for improving overflow controls, habitat restoration, or adaptive management practices.

5 Document usage and restrictions

This plan has been prepared exclusively for **Watercare Services Ltd** as part of their compliance with resource consent requirements. The document and the data collected during the Pilot Study should only be used for the purposes outlined in this project.

Any reproduction or dissemination of this document must be done in its entirety and with prior written consent from **Tonkin & Taylor Ltd (T+T)** and **AECOM**.

DRAFT

6 Appendices

Table 1: Breakdown of the number of EOP across different receiving environments and corresponding ecological risks as provided by Watercare. The number of sites included in the proposed (Pilot) Monitoring Plan is provided in the second to last row.

Ecological risk	Small Waterways	Large Waterways	Estuary	Harbour	Beach	Basin
Very low	17	5	19	0	1	0
Low	0	7	7	0	0	0
Moderate	16	0	9	40	1	0
High	6	0	1	0	1	5
Very High	51	0	10	0	18	7
Unknown	79	35	14	20	6	5
Number of EOP monitoring sites selected	7	0	2	0	2	2
Percentage of total high/very high sites	12 %	N/A	18 %	N/A	11 %	16 %

Table 2: Sites selected for inclusion within (Pilot) Monitoring Plan

EOP ID	Location	Stream	Receiving Environment	Ecological Class	Eco Risk (AEE)	Eco Risk (Calculated)	Additional comments	Frequency
501	23a Portland Road	Waitaramoa Stream	Small waterway	1	Very High	High	Potentially no upstream catchment. KB: may need permission from Kings School	Quarterly
503	68 Portland Road	Waitaramoa Stream	Small waterway	1	Very High	High	Niwa site KB: We have motts sensor here already which goes off regularly. However, EOP 505 on Scherff overflows as regularly & closer to stream –both discharge into same watercourse, so are we testing/measuring effect of multiple EOPs here? EOP 502 discharges just a few m d/s but no sensor in this EOP.	Quarterly
588	24 Mahoe Avenue	Remuera Stream	Small waterway	1	Very High	Very High	Allows for upstream and downstream sites (potential for 3x sites) KD: agreed good option for up & downstream sites, no other EOPs discharging here.	Quarterly

506	20 Hapua Street	Unnamed stream in Thomas Bloodworth Park	Small waterway	2	Very High	Very High	Accessibility potentially an issue. Niwa site KB: similar to 503, travels through length of sw first, and overflows in heavy rain only. DPSHO/ EOP704 discharges to same location, but rarely overflows. No upstream site.	Quarterly
264	25 Savage Street	Motions Creek	Small waterway	2	Very High	High	Combined with estuary site. KB: EOP 260 is upstream but not expected to OF – perhaps temp sensor to confirm? Good option.	Quarterly
734	Edendale Branch MH1	Meola Creek (Lyon Avenue)	Small waterway	1	Unknown	Very high	KB: good option with up & downstream sites. Might need access permission from Mt Albert sch.	Quarterly
588	24 Mahoe Avenue	Remuera Stream	Small waterway	1	Very High	Very High	KB: repeat, already in table above.	Quarterly
493, 495	Hobson Bay (32 Takutai St)	-	Basin	1	Very High	Low, Moderate	KB: motts sensor in 495 – OFs regularly, should we also include EOP 1645 as discharges to same point?	Summer, winter
730	Judges Bay (11 Judges Bay Rd)	-	Basin	1	High	Very High	KB: have ongoing OF issues here due to broken line,	Summer, winter

							suggest not to use this site for a while.	
714	Cox's Bay (318 Jervois Rd)	-	Beach	2	Very High	High	KB: good option, DPEDC across bay hasn't overflowed this yr.	Summer, winter
194, 196	Adjacent to Curran Street	-	Beach	2	Very High	Very High	KB: good option	Summer, winter
261, 262, 263, 268, 269 270	Motions Creek (estuarine)	-	Estuary	2	Very High	Low, Moderate, High, Very High	KB: good option for measuring effect of multiple EOPs – multiple sensors would be needed to confirm which are overflowing.	Summer, winter
36, 1514, 1548, 567, 566, 565, 568	Waterview	-	Estuary	1	Unknown	Very Low, High, Very High	KB: site visit needed to determine if accessible around mangroves etc.	Summer, winter

