

Forward Works – Glossary of Table Headings
(Reporting as of 12th August 2025_July Month-End)

This glossary outlines the key columns included in the Forward Works table to support consistent interpretation across all panel members.

Expected Market Entry (FY Quarter)

The anticipated financial quarter in which the project is expected to be released for pricing or formal engagement.

Delivery Stream Allocation

Indicates the procurement stream the project falls under based on Watercare’s published strategy:

- Discrete Projects
- Asset Upgrades & Renewals
- Major Projects

PDG Categorisation

Categorisation of the project as per Watercare’s Programme Delivery Group (PDG) framework, indicating project scale, complexity, and governance pathway.

Phase

The phase of the project (e.g., Feasibility, Design, Execution, Closure) is aligned with the Watercare Project Lifecycle. For clarity, only the Design and Execution phases are shown.

Project ID

A unique identifier is assigned to each project.

- Prefixes indicate service type:
 - **WA** = Water
 - **WW** = Wastewater

Project Name

The working title of the project as recorded in internal systems.

Project Description

A short, high-level summary of the project’s purpose or scope (sourced from Watercare’s internal project database). Some descriptions may be pending and will be progressively updated in future releases.

Project Value Range

Estimated total project cost grouped into indicative financial value bands.

Intended Allocation

Indicates Watercare’s current planning approach for procurement:

- **Within Panel** – likely to be delivered via an existing panel Framework agreement
- **Outside Panel** – likely to be competitively tendered either closed or open market.

Note: This column is for visibility only and does not represent a final allocation decision.

WATERCARE FORWARD WORKS - PANEL UPDATE

Release Date: 02/09/2025

Note: Data reflects the most recent reporting cycle and may be subject to updates based on ongoing assessments and project developments. Excludes Large Programmes, Flood, TARP projects.

Q1: 1 July - 30 September
Q2: 1 October - 31 December
Q3: 1 January - 31 March
Q4: 1 April - 30 June

Quarter	Delivery Stream Allocation	PDG Categorisation	Phase	Project ID	Project Name	Project Description	Project Value Range	Intended Allocation			
FY26 Q1	Asset Upgrades & Renewals	Wastewater & Water Treatment Plants	Design	WW0001465	Biogas Drier Replacement And Standby Unit	Monday 2025-08-04_WW0001465 - Biogas Drier replacement and standby unit addition. This project is part of the wider Biogas system upgrades at Mangere WWTP. This project includes the demolition of the decommissioned LP Gas holder, constructing new concrete plinths and installing two new skid-based Biogas conditioning units.	3 - 10 Million	within panel			
				WW0001485	Rosedale WWT CAS Tank Renewal - Peak Flow	This project is to increase resilience during peak flows and cater for growth. This consists of renewing the convectional activated sludge tank. This project includes two stages: 1. Replace the 40-year old Ardmore WTP B2 Treated Water Tank roof so the tank can be put back in service. 2. Complete the resilience works aborted in 2020. This decommissions A TWT and increases interconnectivity between the plant and transmission systems.	3 - 10 Million	within panel			
			Execution	WA0001339	Ardmore WTP Resilience and B2 TWT Roof	3No. new Jenbacher 1616 biogas engines to be supplied and installed to replace the existing which have reached the end of their service life.	10 - 20 Million	within panel			
				WW0001819	Rosedale WWTP Renewals - PD	DTROS WWTP FY26-28 Renewals Programme of high risk assets.	20 - 30 Million	within panel			
			Wastewater Pipeline Renewals	Design	WW0001482	Mairangi Bay Gravity Wastewater Sewer Upgrade	Mairangi Bay gravity wastewater sewer upgrade - This project will reduce uncontrolled overflows at manholes upstream of the Jutland St EoP as well as reduce the overflows at the Jutland Street EoP to within its NDC limits. The project involves installing a new 3000D pipeline via trenchless technology and installing 8 new manholes.	3 - 10 Million	within panel		
					WW0001743	Sylvia Park Rising Main(s) Rehabilitation	In October 2024, \$2,500,000 to make safe 140m of the Southwestern Interceptor located inside the Mangere WWTP site following two successive failures that occurred after the 2023 flooding events. The existing business case and subsequent briefing to the Board in December 2024 includes a sum to determine a permanent option that also considers the Eastern Interceptor as these two assets enter the WWTP is expected to be a \$40m project.	10 - 20 Million	within panel		
		Water Pipeline Renewals	Design	WW0001780	Southwest Interceptor Renewal		30 - 50 Million	within panel			
				WA0001746	Tarapuka Road Watermain		< 3 Million	within panel			
		FY26 Q2	Asset Upgrades & Renewals	Civil & Construction Electrical	Execution	WA0001747	Mangatangi Dam Bypass FCV Replacement	Replacing the Flow control valve within the Mangatangi Dam valve tower.	< 3 Million	within panel	
						WA0001688	Quarry Road Bulk Supply Point	Establish a new Bulk Supply Point at the intersection of Quarry Rd and GreatSouth Rd Drury, to add resilience to the sewer network.	3 - 10 Million	within panel	
Design	WW0001828				FY26 Trunk Pump Station Planned Replacements		3 - 10 Million	outside panel			
	SS0001069				Networks PS Electrical Upgrade	Replacement of switchboards at a number of Network WWPS	< 3 Million	within panel			
	WA0001378				DTROS Fire Systems Upgrade	Fire Protection System Upgrade at Rosedale WWTP	< 3 Million	within panel			
	WA0001391				STWKO Fire Protection Upgrade	Fire protection upgrade at Waikato WTP	< 3 Million	within panel			
	WA0001412				STHUI FW flowmeter replacement	XXX117 - Huia WTP FW flow meter replacement (MH) - Replace filter turbidity instruments due to age and obsolescence of current models	< 3 Million	within panel			
	WA0001639				STARD Turbidity Instrument Replacements	Urgent replacement of switchboard at Wellisford WTP due to safety and resilience concerns	< 3 Million	within panel			
	WA0001730				STWEL Switchboard Replacement	Backup generator for Helensville WTP	< 3 Million	within panel			
	WA0001731				STHEL Standby Generator	Replace aged Soft Starters at Titirangi PS	< 3 Million	within panel			
	WA0001734				WPTIT Soft Starter Replacements	WW pump station Pilot site to consider for grid scale battery to prevent overflows during power outages	< 3 Million	within panel			
	WW0001272				DPPPW (PS20) Backup Power Supply	Dividing up process loads across multiple switchboards for greater resilience. PST 5 and 6 loads to be transferred to New 3	3 - 10 Million	within panel			
	WW0001492				DTROS Electrical Resilience MLE/PST	Replace switchboards at 11 WWPS	< 3 Million	within panel			
	WW0001768				FY25 Wastewater PS Elec Replacements 1	The project is to upgrade the rain gauge installations at 30 dams. There havebeen multiple equipment failures associated with the rain gauge equipment.	< 3 Million	within panel			
Execution	SS0001027				Rain Gauge Earthing Issues	The project is to replace 16 switchboards at Mangere WWTP in power building and IPS areas due to age and condition. The project is to upgrade the following electrical equipment at the 3 NorthernNetworks pump stations- Switch boards, 13 - 10 Million	< 3 Million	within panel			
	WW0001114				DTMAN Switchboard Replacements	Project mitigates the largest impact from flow surging to the treatment plant. Installing new VSD to drives reduces surge to 3 Million	< 3 Million	within panel			
	WW0001301				Northern Networks Control Upgrade		< 3 Million	within panel			
	WW0001668				Wairau Valley Pumpstation Drives	MOH Regional Fluoride Dosing WA0001455					
Wastewater & Water Treatment Plants	Design			WA0001455	MOH Regional Fluoride Dosing	The W50 Water Treatment Plant (WTP) is expected to remain operational until the new Waikato A WTP is commissioned in 2034. Under the Health (Fluoridation of Drinking Water) Amendment Act 2021, Watercare must fluoridate the Auckland metro supply (0.7-1 mg/L). A dedicated fluoride dosing system is required at W50 due to consistently low treated water fluoride levels (<0.7 mg/L). Additionally, the W50 WTP lacks resilience, as it cannot supply fluoridated water when the Waikato WTP is offline. This project aims to install a fluoridation system at W50 in compliance with the legislation.	10 - 20 Million	within panel			
					This project involves the design of a flow diversion system at the Pukekohe Wastewater Treatment Plant to manage peak inflows and reduce overflow risk. The proposed solution will redirect excess flows from Pond 1 through the existing Aerated Selector Basin (ASB) and into Pond 3, which will be reactivated as emergency storage. This approach optimises existing assets, enhances wet weather resilience, and addresses compliance issues associated with the current overflow system. The current stage focuses solely on progressing detailed design.						
	Execution			WW0001201	Pukekohe WWTP Pond 1 Overflow	XXX09 - SMUNI - minor replacement/improvements (\$700k/-)	10 - 20 Million	within panel			
				WA0001405	SMUNI - minor replacement/improvements		3 - 10 Million	within panel			
				WA0001704	Northern Regional WTP Renewals		3 - 10 Million	within panel			
					This project is part of the Water Treatment Plant renewal strategy to undertake the replacement and rehabilitation of assets at the Waikato WTP. An initial list of assets to be replaced/upgraded have been agreed with the Operational Team. The project team will prepare a package for design, procurement and construction for each asset as prioritised and agreed with the Operational Team.						
				WA0001705	Waikato WTP Renewals		3 - 10 Million	within panel			
					This project is part of the Water Treatment Plant renewal strategy to undertake the replacement and rehabilitation of assets at the Waitekere WTP. An initial list of assets to be replaced/upgraded have been agreed with the Operational Team. The project team will prepare a package for design, procurement and construction for each asset as prioritised and agreed with the Operational Team.						
				WA0001706	Waitekere WTP Renewals		< 3 Million	within panel			
					This project is part of the Water Treatment Plant renewal strategy to undertake the replacement and rehabilitation of assets at the Huia WTP. An initial list of assets to be replaced/upgraded have been agreed with the Operational Team. The project team will prepare a package for design, procurement and construction for each asset as prioritised and agreed with the Operational Team.						
Wastewater Pipeline Renewals	Design			WA0001707	Huia WTP Renewals	This project is part of the Water Treatment Plant renewal strateg to undertake the replacement and rehabilitation of assets at the Ardmore WTP. An initial list of assets to be replaced/upgraded have been agreed with the Operational Team. The project team will prepare a package for design, procurement and construction for each asset as prioritised and agreed with the Operational Team.	< 3 Million	within panel			
				WA0001710	Ardmore WTP Renewals	Upgrade of existing chemical storage and dosing systems at the WTP, including removal of old hypo, alum, lime, and HFA tanks. To installation of new alum and HFA storage tanks, upgraded chemical delivery bay, bund conversions for HFA and washdown containment.	< 3 Million	within panel			
				WA0001712	Waikato WTP CSEU Stage 2	The project is required to ensure reliability and resilience of operation of the Waikato WTP up to 175MLD and comply with the latest H&S regulations. Replace blowers and medium pressure biogas underground piping to engine. Includes new blowers and second smaller flare. Approx size 750Nm3/h.	3 - 10 Million	within panel			
				WW0001387	Rosedale MP biogas Piping	Plant air compressor replacement	< 3 Million	within panel			
				WW0001562	Mangere WWTP Plant Air Compressor Replacement		20 - 30 Million	within panel			
				WW0001816	Mangere WWTP Renewals - PD						
	Design			WW0001460	Otara local network upgrade	The project requires an upgrade of the wastewater network that is serving Otara, Papatoetoe and part of Flat Bush catchments (Otara and Otara East branch sewer catchments) and will form part of the long term solution to accommodate increased growth and development in these catchments. The existing Hingaia wastewater pumping station is already at capacity. The current population projection indicates that additional flow from the future developments will exceed existing capacity of the Hingaia pumping station in the near future and increase the risk of wastewater overflow into the environment. In order to allow for the developments to continue an additional storage capacity needs to be provided until an interim Hingaia pumping station upgrade will be completed.	30 - 50 Million	within panel			
					The new storage tanks will provide a temporary solution to service growth in the Southern Growth Area (SGA) until interim upgrade of the existing Hingaia wastewater pumping station will be completed. It will also increase resilience by providing required emergency storage for the interim Hingaia pumping station.						
	Execution			WW0001804	Hingaia WW Storage Solution		20 - 30 Million	within panel			
				WW0001743	Sylvia Park Rising Main(s) Rehabilitation		10 - 20 Million	within panel			
Water Pipeline Renewals				WW0001824	FY26 Transmission Sewer Renewal	FY26 Transmission Sewer Renewals is a program of works which will deliver renewed and rehabilitated Transmission water pipes to replace existing assets that are in poor condition or approaching their end of service. Packages will be identified and scoped through the Planning team and delivered through Capital Delivery.	10 - 20 Million	outside panel			
				WW0001826	FY26 Local Wastewater Network Renewals		10 - 20 Million	outside panel			
	Design			WA0001083	Redoubt PS Upgrade	Active Project - Do not use WA00001396	< 3 Million	within panel			
				WA0001333	Market Road Watermain Replacement	XXX580 - Mt Hobson PS Upgrade • Pumps nearing end of lifetime and currently not meeting system demand. • Main risks are the current pump failing and the challenges around the constructability phase of project. • Current scope only includes pump station upgrade. Upstream and downstream are out of scope. • SCADA data and modelling results show the pumps are undercapacity for current demand. • Pump upgrade required to meet both current and future demands.	3 - 10 Million	within panel			
				WA0001495	Mt Hobson PS Upgrade	Construct a transmission water pump station to boost supply up to 90ML/D to the Titirangi and future Woodlands Reservoirs and western supply area. To be constructed at 1194 May Road.	3 - 10 Million	within panel			
				WA0001073	West Boost Pumping	The project aims to complete the design and construction of the Orewa 1 to 3 cross section along with a new BSP at John Fair Drive road to supply the Wainui and Silverdale West developments. Additionally BSP standards will be updated as part of this project.	20 - 30 Million	within panel			
				WA0001328	Silverdale West Water Servicing Phase 3		3 - 10 Million	within panel			
				WA0001746	Tarapuka Road Watermain		< 3 Million	within panel			
				WA0001767	FY26 Transmission Watermain Renewals		10 - 20 Million	outside panel			
				WA0001768	FY26 Local Network Watermain Renewals		20 - 30 Million	outside panel			
	WA0001775			Onehunga CI Watermain Stage 1 Renewals		10 - 20 Million	outside panel				
	WA0001776			Whangaparaoa Rd Watermain Renewals		3 - 10 Million	outside panel				
Discrete Projects	Discrete Projects			Design	WA0001343	Wesley/Paerata Watermain	This transmission watermain has two fundamental needs: • provide a cross connection between Waikato No.1 WM and Waikato No.2 WM. • provide a transmission supply to the north of Pukekohe where the Paerata WS2 can be supplied from to service growth in the Wesley/ Paerata area over the next 50 years.	50 - 100 Million	within panel		
					WW0001446	Paerata Wastewater Servicing	Upgrade of the existing Te Paea Pump Station, construction of a new Paerata Pump Station, and installation of a rising main linking both to the Isabella North Pump Station. The works will improve capacity, reliability, and future-proof wastewater conveyance for growth in the area.	50 - 100 Million	within panel		
	Execution			WW0001565	Mangere WWTP Svi Improvement Upgrade	The Otara Wastewater Network Capacity Upgrades Project aims to reduce the amountof wastewater that enters the env	10 - 20 Million	outside panel			
				WW0001092	Otara Catchment WW Capacity Upgrades	To decentralise blowers to increase resilience of the system (currently single point of failure to 9 reactors out of 11), to replace existing blowers and service 3 reactor clarifiers.	50 - 100 Million	within panel			
	Major Projects			Major Projects	Design	WW0001474	Mangere WWTP Distributed Blowers	To decentralise blowers to increase resilience of the system (currently single point of failure to 9 reactors out of 11), to replace existing blowers and service 3 reactor clarifiers.	100 - 250 Million	outside panel	
	FY26 Q3			Asset Upgrades & Renewals	Electrical	Design	WA0001658	Mt Roskill Reservoir RTS	Mt Roskill Reservoir - Feasibility Study - investigation to check the viability of getting this reservoir back to service and provide concept design.	3 - 10 Million	within panel
							WA0001735	STWKO VSD Replacements	Replace small VSDs at Waikato WTP due to age and obsolescence	< 3 Million	within panel
			WA0001736			STARD Filter PIT & FIT Replacements	Replacement of pressure and flow instruments on filters at Ardmore WTP due to condition observed during Condition Assessment rounds	< 3 Million	within panel		
			WW0001218			Wastewater Transmission VSD Upgrades	Replace aged Variable Speed Drives at a number of WWPS	< 3 Million	within panel		
		WW0001766	DTMAN Switchboards Replacement FY25			Replacement of six HV and six LV switchboards at Mangere WWTP	10 - 20 Million	within panel			
		WW0001767	FY25 Wastewater PS Elec Replacements 2			Replacement of switchboards at 10 WWPS	3 - 10 Million	within panel			
Execution		WA0001142	Headworks Electrical Upgrades			Construct a new rising main and reconfigure local network to accommodate the changes.	< 3 Million	within panel			
		WA0001412	STHUI FW flowmeter replacement			XXX117 - Huia WTP FW flow meter replacement (MH) - Replace filter turbidity instruments due to age and obsolescence of current models	< 3 Million	within panel			
		WA0001639	STARD Turbidity Instrument Replacements			Replace aged Soft Starters at Titirangi PS	< 3 Million	within panel			
		WA0001734	WPTIT Soft Starter Replacements			Extend existing 150mm main and instal two new hydrants	< 3 Million	within panel			
Wastewater & Water Treatment Plants		Design	WW0001558		Rosedale WWTP Fire Main Installation	Wellisford Water Treatment Plant Upgrade/The Wellisford WTP Upgrade is a critical infrastructure project led by Watercare	20 - 30 Million	within panel			
			WA0001025		Wellsford Water Treatment Upgrade	Huia WTP Sludge Processing Capacity Improvements					
					Maintaining production capacity and increasing resilience of the almost 100-year-old existing Huia water treatment plant (WTP) is essential for the business until new infrastructure is built to replace the existing plant. Several recent large storm events indicated that a key bottleneck at the treatment plant is the sludge handling capacity, specifically after storm events. This is due to the higher turbidity levels observed from the inflow stream, which has significantly increased the volume of sludge produced. The aim of this project is to increasing the sludge processing capacity and improving resilience of the solids handling process at the Huia WTP. In so doing this project assesses the options to increasing centrifuge capacity and resilience. It also investigates the viability of addressing the sewer network capacity limitations.						
			WA0001714		Huia WTP Sludge Processing Capacity Improvements	This project provides Rosedale WWTP with an additional co-generation engine toincrease utilization of biogas production	3 - 10 Million	within panel			
			WA0001142		Rosedale WWTP Biogas & Co-Gen Expansion		10 - 20 Million	within panel			

FY26 Q3	Asset Upgrades & Renewals	Wastewater & Water Treatment Plants	Design	WW0001483	Rosedale WWTP Inlet Works (Screens/Conveyors)	The Rosedale WWTP Inlet Works (Screens/Conveyors) Project is needed to improve intake capacity and resilience to meet future flow demand. It will also enable future plant upgrades and expansion.	3 - 10 Million	within panel
				WW0001484	Rosedale Buildings #1 Maintenance Delivery (MD)	Build new maintenance building at south of site	10 - 20 Million	within panel
			Execution	WW0001485	Rosedale WWT CAS Tank Renewal - Peak Flow	This project is to increase resilience during peak flows and cater for growth. This consists of renewing the convectional activated sludge tank.	3 - 10 Million	within panel
				WW0001486	Mangere Small Biofilter Media Replacement	Asset renewal of biofilter	< 3 Million	within panel
			Execution	WW0001500	Rosedale WWTP Centrifuge 3 Upgrade	This upgrade and renewal project will increase the centrifuge's capacity from 8m3/hr to 17m3/hr, increasing total plant capacity by 30%.	< 3 Million	within panel
						This projects aim is to address regular overflows from MH 1224392 that regularly overflows into Alexandra stream which runs adjacent to the assets. The manhole is shallow but the main contributing factor to the overflows are downstream capacity constraints. Solutions are targeted around diversion or improving downstream capacity to alleviate stress on the network and ultimately reduce the number of overflows into the stream thus improving water quality.	3 - 10 Million	within panel
		Wastewater Pipeline Renewals	Design	WW0001185	Unsworth Heights Diversion	The Southern Growth Area (SGA) encompassing Hingaia, Drury, Auranga, Opaheke and Paerata is due to undergo significant growth over the next 20 years. Approximately 6,000 lots (18000 PE) for the SGA are predicted to be developed by 2025. This watermain is required to be completed and in service before the SGA development reaches 5,600 lots (~2025), to ensure levels of service can be maintained in the area. Once complete, the HEW watermain will provide two feeds to the Hingaia Peninsula and Auranga developments providing network resilience through redundancy.	3 - 10 Million	within panel
				WW0001214	Kahika Pump Station Upgrades	This project is to raise the level of service within the Kahika catchment. This consists of increase the peak pump rate of the Kahika Pump Station from 100 to 120 L/s.	20 - 30 Million	within panel
		Water Pipeline Renewals	Design	WA0001130	Hingaia Watermain East/West	The design, supply and construction of waste water infrastructure (combined collector CCG stage 2) to reduce overflows in the Waterview catchment to levels compliant with NDC. New infrastructure will include a gravity pipeline from the northern part of the catchment to a new pump station in Fairlands Reserve and a rising main to Holly St in Avondale where it will connect to new pipeline CCG stage 1.	10 - 20 Million	within panel
				WA0001756	Establishment of Permanent Tanker Filling station	Development of a new permanent tanker filling station (TFS) in Huapai to replace the existing temporary TFS at 18 Orara Rd. The tankers that will be refilled at this station are to service properties in Humeu, Huapai, and surrounding areas isolated for the water network and reliant on rainwater tanks.	< 3 Million	within panel
	Discrete Projects	Discrete Projects	Execution	WA0001747	Mangatangi Dam Bypass FCV Replacement	Replacing the Flow control valve within the Mangatangi Dam valve tower.	< 3 Million	within panel
				WA0001041	Hunua 2 Watermain (Ti Rakau Bridge)	The existing Hunua 2 pipe bridge at Pakuranga Creek/Ti Rakau Drive is in poor condition and requires significant repair or replacement.	30 - 50 Million	within panel
			Execution	WW0001026	Forrest Hill WW Catchment Diversion	The Forst Hill wastewater treatment network is currently undersized causing uncontrolled wet weather spills within several 30 - 50 Million	30 - 50 Million	outside panel
				WW0001565	Mangere WWTP Svi Improvement Upgrade	Installation of InDense hydrocyclone technology on RCs 7-9 at Mangere WWTP to increase settleability by improving the solids handling process.	10 - 20 Million	outside panel
	Major Projects	Major Projects	Execution			The Dunkirk Wastewater Upgrade Project was developed to meet the planned growth in Tamaki, to ensure that Watercare continues to efficiently and effectively manage levels of service (LoS) to our customers and minimise adverse impact on local receiving environments. This project comprises of three distinct stages, delivering a new wastewater pumpstation, bulk and local wastewater network upgrades.	10 - 20 Million	within panel
				WW0001686	Dunkirk Stage 2 Rising Main	The design, supply and construction of waste water infrastructure (combined collector CCG stage 2) to reduce overflows in the Waterview catchment to levels compliant with NDC. New infrastructure will include a gravity pipeline from the northern part of the catchment to a new pump station in Fairlands Reserve and a rising main to Holly St in Avondale where it will connect to new pipeline CCG stage 1.	100 - 250 Million	outside panel
			Design	WW0001112	Army Bay WWTP Upgrade	This project caters for growth in the Hingaia Peninsula Drury and Opaheke areas and will reduce wastewater overflows from the existing system.	100 - 250 Million	outside panel
				WW0001045	Hingaia Wastewater Servicing Scheme	Replace switchboards at three water PS (WPCLB, WPONL, WPRED) (Note: WPRED now excluded as already upgraded) and replace switchboards at three WPS (WPWCR, WPWKE, WPSUN). Note: WPSUN now excluded as already replaced.	3 - 10 Million	within panel
FY26 Q4	Asset Upgrades & Renewals	Electrical	Design	WA0001732	FY25 Water PS Elec Replacements 2	Replacement of switchboards at three WPS (WPWCR, WPWKE, WPSUN). Note: WPSUN now excluded as already replaced.	3 - 10 Million	within panel
				WA0001733	FY25 Water PS Elec Replacements 1	Replacement of switchboards at three WPS (WPWCR, WPWKE, WPSUN). Note: WPSUN now excluded as already replaced.	3 - 10 Million	within panel
			Execution	WA0001391	STWKO Fire Protection Upgrade	Fire protection upgrade at Waitakere WTP	< 3 Million	within panel
				WW0001492	DTR0S Electrical Resilience MLE/PST	Dividing up process loads across multiple switchboards for greater resilience. PST 5 and 6 loads to be transferred to New PST 7 Switchroom. Clarifier and RAS 3&4, MLE 3 loads to be transferred to New MLE 4 Switchroom	< 3 Million	within panel
		Wastewater & Water Treatment Plants	Execution	WA0001107	Waitakere WTP Interim Upgrade	The aim of this project is to upgrade the chemical facilities at the Waitakere Water Treatment Plant (WTP) to ensure compliance with the regulations and standards. The upgrade will minimise health and safety risks, improve operability and resilience. a) Aluminium Sulphate (Alum): Construct a new storage and dosing system and decommission the existing system b) Lime: Construct a new slurry makeup, storage, and dosing system, and demolish the existing system c) Hydrofluoroallic Acid (HFA): Replace the bulk tank, construct a new storage and dosing system, and decommission the current system. d) Chlorine Gas: Modify the existing drum room by replacing the door and extending the gantry. e) Powdered Activated Carbon (PAC): Add a new big-bag unloading and slurry makeup system while retaining the existing storage and dosing system. f) Polymer: Construct a new storage and dosing system for raw water treatment and modify the existing polymer system. g) Decommissioning and Demolition: Remove outdated systems (Alum, Lime, HFA, and polymer) and reinstate the areas. MOH Regional Fluoride Dosing WA0001455	3 - 10 Million	within panel
				WA0001455	MOH Regional Fluoride Dosing	The WSO Water Treatment Plant (WTP) is expected to remain operational until the new Waitakere A WTP is commissioned in 2034. Under the Health (Fluoridation of Drinking Water) Amendment Act 2021, Watercare must fluoridate the Auckland metro supply (0.7-1 mg/L). A dedicated fluoride dosing system is required at WSO due to consistently low treated water fluoride levels (<0.7 mg/L). Additionally, the WSO WTP lacks resilience, as it cannot supply fluoridated water when the Waitakere WTP is offline. This project aims to install a fluoridation system at WSO in compliance with the legislation.	10 - 20 Million	within panel
				WW0001441	Rosedale Buildings #2 Admin/Control	Ops building (WWTP control room and admin) and Maintenance Delivery (including workshops) relocations, plus a new Staff/Visitor's building to accommodate various teams currently working in Portacomms onsite.	10 - 20 Million	within panel
				WW0001465	Biogas Drier Replacement And Standby Unit	Monday 2025-08-04, WW0001465 - Biogas Drier replacement and standby unit addition. This project is part of the wider 3 - 10 Million	3 - 10 Million	within panel
				WW0001798	Waiuku WW Network diversion	This project involves installing two diversions in the Waiuku Wastewater Network to address capacity constraints in the ageing infrastructure of the wastewater network at Waiuku golf course.	< 3 Million	within panel
				WW0001780	Southwest Interceptor Renewal	In October 2024, \$2,500,000 to make safe 140m of the Southwestern Interceptor located inside the Mangere WWTP site 30 - 50 Million	30 - 50 Million	within panel
		Water Pipeline Renewals	Design	WA0001416	Mission Heights PS - Upgrade	XXX124 - Mission Heights PS - Upgrade - 15 Years old - need to review Brendon's work	< 3 Million	within panel
				WA0001417	Pleasant Rd PS Replacement	WW0001417 - The Pleasant Road Pump Station (PRPS) Replacement project addresses the end-of-life renewal of a critical water infrastructure asset serving West Auckland. Originally designed to boost flow from the Huia 2 Watermain to the Waitakere Reservoir, the station was repurposed in 2023 following flood-related damage to instead supply the Highland Avenue Bulk Supply Point (BSP). This change eliminated its dual-supply function, reducing network resilience.	3 - 10 Million	within panel
	Discrete Projects	Discrete Projects	Design	WA0001005	Howick WW Catchment System Upgrades	This project will deliver feasibility and concept design for: A new dual-pump configuration within a single building—one set dedicated to the Highland Ave BSP, and one to the Waitakere Reservoir via the Waitakere 1 Watermain. Enhanced supply resilience and operational flexibility during network failures or planned outages. Capacity upgrades to support future growth and shutdowns at the Waitakere WTP and raw watermain. Consideration of new site acquisition due to existing spatial constraints.	30 - 50 Million	outside panel
				WW0001399	Silverdale West WW Pump Station	The Silverdale West Wastewater Pump Station (WWPS), upstream gravity sewer from Small Rd, and downstream connection to the Milldale Branch Sewer are needed to provide wastewater service and enable the growth of the Silverdale West catchment.	30 - 50 Million	outside panel
				WW0001022	Northcote-Chatswood WW Network Upgrades	The project aims to divert wastewater from the catchment area, which currently flows to the Chatswood Branch sewer at the Waitakere WTP site. The scope includes: • New approximately 1.5ML concrete reservoir located next to the existing Waitakere Reservoir. • A branch on the existing UV outlet connecting to the new reservoir. • Branch connection to the existing DN355 supply / feed pipeline. • Scour and overflow connection from new reservoir to existing reservoir waste system. • A retaining wall system around the new reservoir to achieve the same base reference level with the existing reservoir. • Future tie-ins to the reservoir's inlet and outlet to connect with the future centralised Waiuku WTP system.	20 - 30 Million	within panel
				WA0001509	Waiuku Reservoir Upgrades	The project aims to increase water storage capacity in the Waiuku area by constructing an additional water reservoir at the Waiuku Road Water Treatment Plant (WTP) site. The scope includes: • New approximately 1.5ML concrete reservoir located next to the existing Waitakere Reservoir. • A branch on the existing UV outlet connecting to the new reservoir. • Branch connection to the existing DN355 supply / feed pipeline. • Scour and overflow connection from new reservoir to existing reservoir waste system. • A retaining wall system around the new reservoir to achieve the same base reference level with the existing reservoir. • Future tie-ins to the reservoir's inlet and outlet to connect with the future centralised Waiuku WTP system.	3 - 10 Million	within panel
				WA0001139	Electrical Upgrades Water	Construct a new rising main and reconfigure local network to accommodate the changes	30 - 50 Million	within panel
				WA0001378	DTR0S Fire Systems Upgrade	Fire Protection System Upgrade at Rosedale WWTP	< 3 Million	within panel
				WA0001736	STARD Filter PIT & FIT Replacements	Replacement of pressure and flow instruments on filters at Ardmore WTP due to condition observed during Condition Assessment rounds	< 3 Million	within panel
				WW0001203	Electrical Upgrades Wastewater	FUNDING "BUCKET" for Pareremoremo WW assets	3 - 10 Million	within panel
		Wastewater & Water Treatment Plants	Design	WW0001768	FY25 Wastewater PS Elec Replacements 1	Project complete	3 - 10 Million	within panel
				WA0001711	Muriwai Source and Treatment Plant	Replace switchboards at 11 WWPS	10 - 20 Million	within panel
	Major Projects	Major Projects	Design	WW0001438	Rosedale WWTP PST Enhancement (Fat Collection)	XXX719 - DTR0S PST Full scale trial and design (CEPT or AAA) - Energy Neutrality - Project to be renamed to "DTMAN Inlet Works Recycle Water Upgrade".	< 3 Million	within panel
				WW0001454	Mangere WWTP Potable Water Pipework Replacement	This project involves installing a new water supply to the screens building at Mangere WWTP including pumping from the effluent channel, contrahsear, and piping to the screens at the inlet building. This project will prevent loss of plant due to pressure loss in the WEH supply, and decrease maintenance intervals in clearing of the screens	3 - 10 Million	within panel
				WA0001487	Warkworth WTP Capacity Upgrade - Stage 1	This project is to increase the output of the WTP from ~3MLD to ~4.3MLD. Huia WTP Sludge Processing Capacity Improvements	10 - 20 Million	within panel
				WA0001714	Huia WTP Sludge Processing Capacity Improvements	Maintaining production capacity and increasing resilience of the almost 100-year-old existing Huia water treatment plant (WTP) is essential for the business until new infrastructure is built to replace the existing plant. Several recent large storm events indicated that a key bottleneck at the treatment plant is the sludge handling capacity, specifically after storm events. This is due to the higher turbidity levels observed from the inflow stream, which has significantly increased the volume of sludge produced. The aim of this project is to increasing the sludge processing capacity and improving resilience of the solids handling process at the Huia WTP. In so doing this project assesses the options to increasing centrifuge capacity and resilience. It also investigates the viability of addressing the sewer network capacity limitations.	3 - 10 Million	within panel
				WW0001133	Linwood Avenue Pipe Upgrades	The aim of this project is to upgrade the chemical facilities at the Waitakere Water Treatment Plant (WTP) to ensure compliance with the regulations and standards. The upgrade will minimise health and safety risks, improve operability and resilience. a) Aluminium Sulphate (Alum): Construct a new storage and dosing system and decommission the existing system b) Lime: Construct a new slurry makeup, storage, and dosing system, and demolish the existing system. c) Hydrofluoroallic Acid (HFA): Replace the bulk tank, construct a new storage and dosing system, and decommission the current system. d) Chlorine Gas: Modify the existing drum room by replacing the door and extending the gantry. e) Powdered Activated Carbon (PAC): Add a new big-bag unloading and slurry makeup system while retaining the existing storage and dosing system. f) Polymer: Construct a new storage and dosing system for raw water treatment and modify the existing polymer system. g) Decommissioning and Demolition: Remove outdated systems (Alum, Lime, HFA, and polymer) and reinstate the areas.	3 - 10 Million	within panel
				WW0001180	Gulf Harbour Wastewater Servicing	This project is to allow for population growth for the next 30 years in Gulf Harbour. The project includes building a local new pump station and local rising main	10 - 20 Million	within panel
				WW0001215	Beach Haven Diversion	This project aims to resolve capacity constraints of the Beach Haven Wastewater Branch Sewer TS10, currently operating over capacity. This will involve construction of a diversion transmission line from Cronin Wastewater Pump Station to Kahika Pumpstation.	20 - 30 Million	within panel
				WW0001482	Mairangi Bay Gravity Wastewater Sewer Upgrade	This project shall provide increased capacity in the network to improve level of service, resilience, and provide for growth. Mairangi Bay gravity wastewater sewer upgrade - This project will reduce uncontrolled overflows at manholes upstream of the Jutland St EoP as well as reduce the overflows at the Jutland Street EoP to within its NDC limits. The project involves installing a new 3000D pipeline via trenchless technology and installing 8 new manholes.	3 - 10 Million	within panel
				WW0001482	Mairangi Bay Gravity Wastewater Sewer Upgrade	This project shall provide increased capacity in the network to improve level of service, resilience, and provide for growth. Mairangi Bay gravity wastewater sewer upgrade - This project will reduce uncontrolled overflows at manholes upstream of the Jutland St EoP as well as reduce the overflows at the Jutland Street EoP to within its NDC limits. The project involves installing a new 3000D pipeline via trenchless technology and installing 8 new manholes.	3 - 10 Million	within panel

FY27 Q1	Asset Upgrades & Renewals	Wastewater Pipeline Renewals	Execution	WW0001804	Hingiaa WW Storage Solution	The existing Hingiaa wastewater pumping station is already at capacity. The current population projection indicates that additional flow from the future developments will exceed existing capacity of the Hingiaa pumping station in the near future and increase the risk of wastewater overflow into the environment. In order to allow for the developments to continue an additional storage capacity needs to be provided until an interim Hingiaa pumping station upgrade will be completed.		
		Water Pipeline Renewals	Design	WA0001385 WA0001637	Warkworth Western Zone - Boost Pump Station Zita Pumped Zone Reconfiguration		20 - 30 Million 3 - 10 Million <3 Million	within panel within panel within panel
	Discrete Projects	Discrete Projects	Design	WA0001395	Takanini 2 Renewal	The new storage tanks will provide a temporary solution to service growth in the Southern Growth Area (SGA) until interim upgrade of the existing Hingiaa wastewater pumping station will be completed. It will also increase resilience by providing required emergency storage for the interim Hingiaa pumping station.	50 - 100 Million	outside panel
		Major Projects	Design	WW0001173	Stanmore PS & RM Upgrade	This project is to construct a new Stanmore pump station to provide future 100 year capacity linked with a 9km Rising Main between Stanmore pump station and Army Bay Waste Water Treatment Plant.	100 - 250 Million	outside panel
				WW0001212	Wairau Valley Diversion	Providing additional conveyance, storage volumes and pump station capacity to Rosedale WWTP provides the ability to attenuate peak flows and reduce peak flow management and capacity at the WWTP, whilst providing resilience and additional capacity to the wastewater transmission network for this large catchment	100 - 250 Million	outside panel
			Execution	WW0001554	Southwestern Int Duplication Manurewa To Mangere	Business Needs: - The current AC Takanini 2 transmission watermain is in poor condition and requires replacement. - The Takanini WSZ is projected to grow from 10MLD to 17.5MLD over a 50 year planning horizon. This will require the new watermain to be upsized.	100 - 250 Million	outside panel
	Asset Upgrades & Renewals	Civil & Construction	Design	WA0001398	Warkworth Northern Reservoir Boost PS & Trnk Mns	WA0001398 - Northern zone reservoir and local boost pump station	10 - 20 Million	within panel
		Electrical	Execution	WA0001336 SS0001069	Fairview Pump Station Networks PS Electrical Upgrade	Renewal and relocation of Fairview PS. Replacement of switchboards at a number of Network WWPS	30 - 50 Million < 3 Million	within panel within panel
			Execution	WA0001730 WA0001731 WW0001218	STWEL Switchboard Replacement STHEL Standby Generator Wastewater Transmission VSD Upgrades	Urgent replacement of switchboard at Welford WTP due to safety and resilience concerns Backup generator for Helensville WTP Replace aged Variable Speed Drives at a number of WWPS	< 3 Million < 3 Million < 3 Million	within panel within panel within panel
				WW0001272 WW0001267 WW0001151	DPPPPW (PS20) Backup Power Supply FY25 Wastewater PS Elec Replacements 2 Owhanake WWTP Upgrade (Stg 2)	WW pump station Pilot site to consider for grid scale battery to prevent overflows during power outages Replacement of switchboards at 10 WWPS	< 3 Million 3 - 10 Million < 3 Million	within panel within panel within panel
FY27 Q2			Design	WW0001201	Pukekohe WWTP Pond 1 Overflow	This project involves the design of a flow diversion system at the Pukekohe Wastewater Treatment Plant to manage peak inflows and reduce overflow risk. The proposed solution will redirect excess flow from Pond 1 through the existing Aerated Selector Basin (ASB) and into Pond 3, which will be reactivated as emergency storage. This approach optimises existing assets, enhances wet weather resilience, and addresses compliance issues associated with the current overflow system. The current stage focuses solely on progressing detailed design.	10 - 20 Million	within panel
				WW0001483	Rosedale WWTP Inlet Works (Screens/Conveyors)	The Rosedale WWTP Inlet Works (Screens/Conveyors) Project is needed to improve intake capacity and resilience to meet future flow demand. It will also enable future plant upgrades and expansion.	3 - 10 Million	within panel
	Wastewater Pipeline Renewals		Design	WW0001678	WIIWQIP Avondale Whau CC7A CC7A1 to Miranda Shaft	The project is associated with upgrading CC7A and CC7A1 EOP collector sewers to address current performance issues, provide capacity for growth, and capture combined sewer overflows.	3 - 10 Million	within panel
						This projects aim is to address regular overflows from MH 1224392 that regularly overflows into Alexandra stream which runs adjacent to the assets. The manhole is shallow but the main contributing factor to the overflows are downstream capacity constraints. Solutions are targeted around diversion or improving downstream capacity to alleviate stress on the network and ultimately reduce the number of overflows into the stream thus improving water quality.	3 - 10 Million	within panel
	Water Pipeline Renewals		Execution	WW0001185	Unsworth Heights Diversion	WA0001285 - Watermain from Hudson Road WTP upto Matakana Link Road	3 - 10 Million	within panel
			Design	WA0001285	Warkworth Water Hudson Rd to Matakana Link Rd	Active Project - Do not use WA0001396	3 - 10 Million	within panel
			Execution	WA0001333	Market Road Watermain Replacement	XXX576 - Kitchener Rd PS, Pukekohe - Determine optimum size and location for new Anzac zone. Review Jackie's work. - URGENT dependent on Pukekohe West BSP work complete. Pumps old and currently failing to match demand. -	3 - 10 Million	within panel
				WA0001492	Kitchener Rd PS Replacement	XXX580 - Mt Hobson PS Upgrade • Pumps nearing end of lifetime and currently not meeting system demand. • Main risks are the current pump failing and the challenges around the constructability phase of project. • Current scope only includes pump station upgrade. Upstream and downstream are out of scope. • SCADA data and modelling results show the pumps are undercapacity for current demand.	3 - 10 Million	within panel
	Major Projects			WA0001495	Mt Hobson PS Upgrade	• Pump upgrade required to meet both current and future demands.	3 - 10 Million	within panel
			Design	WW0001680	WIIWQIP Avondale Lynfield Branch To Haycock Shaft	The project is associated with upgrading the Dundale and Lynfield Avenue Branchsewers to address current performance issues.	100 - 250 Million	outside panel
FY27 Q3	Asset Upgrades & Renewals	Electrical	Execution	WA0001658	Mt Roskill Reservoir RTS	Mt Roskill Reservoir - Feasibility Study - investigation to check the viability of getting this reservoir back to service and provide concept design.	3 - 10 Million	within panel
				WA0001732	FY25 Water PS Elec Replacements 2	Replace switchboards at three water PS (WPCBL, WPONL, WPRED) Note: WPRED now excluded as already upgraded under a different project	3 - 10 Million	within panel
				WA0001733	FY25 Water PS Elec Replacements 1	Replacement of switchboards at three WPS (WPKCR, WPKWE, WPSUN) Note: WPSUN now excluded as already replaced under another project.	3 - 10 Million	within panel
				WA0001735	STWKO VSD Replacements	Replace small VSDs at Waikato WTP due to age and obsolescence	< 3 Million	within panel
	Wastewater & Water Treatment Plants		Design	WW0001449	Mangere WWTP New admin building	XXX14 - New admin building - separation of production from public - H&S, security driven	30 - 50 Million	within panel
						This project involves installing two diversions in the Waikuku Wastewater Network to address capacity constraints in the ageing infrastructure of the wastewater network at Waikuku golf course.	< 3 Million < 3 Million	within panel within panel
	Wastewater Pipeline Renewals		Execution	WW0001798	Waikuku WW Network diversion	Link between Hunua 3 and 4 via Mangere WM - - enables redundancy to the whole of Mangere zone. Needs flushing valves to redirect flows.	< 3 Million	within panel
		Water Pipeline Renewals	Execution	WA0001083	Redoubt PS Upgrade	Implementation of a boosted supply zone via a new Pump Station to be constructed next to the Waikumete Reservoir.	< 3 Million	within panel
				WA0001397	Mangere Watermain High Volume Flushing Valve		3 - 10 Million	within panel
				WA0001526	Waikumete Pump Station (Sunnyvale PS)	This project will deliver a new centralized water treatment plant for Waikuku at 11 Cornwall Rd which will consolidate existing bores located at four different locations in the area. Treated water will then be pumped to two storage reservoirs at 1471 Waikuku Rd and one at 83 Victoria Ave. Approximately 3,500 meters each of new raw and treated water pipelines will connect the new treatment plant to the existing bores and reservoirs. As part of this project, three existing WTPs will be decommissioned, with the bores and reservoirs integrated into the new system. The outcomes sought from delivering the project are to increase WTP capacity, ensure compliance with relevant regulations, and improve reliability to the desired level of service.	30 - 50 Million	outside panel
FY27 Q4			Execution	WA0001042	Waikuku Water Treatment Upgrade	Upgrade of existing 25MLD Onehunga Water Treatment Plant to: - Comply with regulatory standards (i.e. PFAS, fluoridation) - Improve water supply system resilience - Replace assets at end of service life	30 - 50 Million	outside panel
						Comprises of the following scope items: - New treatment assets (GAC system, UV, polymer) - New electrical and control systems - New mechanical systems (pumps, valves) - Associated civil and structural works (buildings, foundations, roading, underground services) - Modification of existing assets - Commissioning and decommissioning - Design, investigations and statutory approvals	30 - 50 Million	outside panel
	Discrete Projects			WA0001109	Onehunga WTP PFAS & Second Barrier	WA0001365 - Devonport 2 watermain - urgent replacements Approximately 4.5 km of 300mm AC pipeline to be replaced/upgraded.	30 - 50 Million	within panel
				WA0001365	Devonport 2 Watermain Replacement	The works support redevelopment of the Tamaki Precinct to enable approximately 14,100 healthy homes over the next 50 years. The project involves the installation of 5.3 km of local network watermain within the road reserve across two key alignments in the Tamaki Precinct, to service growth and intensification driven by KO Tamaki & Specialist vehicle setup for developments (TRC): Northern Alignment: 4.1 km of pipelines fed from the St Johns Reservoir, serving the Glen Innes zone. Southern Alignment: 1.2 km of pipeline that serves the Panmure zone and is fed from the Bridge Street Bulk Supply Point.	50 - 100 Million	outside panel
				WA0001619	Tamaki Precinct Water	Upgrade of the existing Te Paera Pump Station, construction of a new Paerata Pump Station, and installation of a rising main linking both to the Isabella North Pump Station. The works will improve capacity, reliability, and future-proof wastewater conveyance for growth in the area.	50 - 100 Million	outside panel
				WW0001446	Paerata Wastewater Servicing	This project includes the construction of a new Raw Water Pump Station for the future Waikato A WTP. The W50 floating pump station can then be removed from the Waikato River. The new Waikato A RWPS will be connected to the existing W50 RM to supply the W50 water treatment facility.	100 - 250 Million	outside panel
	Major Projects	Major Projects	Execution	WA0001241	Waikato A Raw Water Intake	WA0001398 - Northern zone reservoir and local boost pump station	10 - 20 Million	within panel
		Asset Upgrades & Renewals	Execution	WA0001398	Warkworth Northern Reservoir Boost PS & Trnk Mns		10 - 20 Million	within panel
			Execution	WA0001711	Muriwai Source and Treatment Plant		< 3 Million	within panel
		Wastewater & Water Treatment Plants		WW0001151	Owhanake WWTP Upgrade (Stg 2)	Project to be renamed to "DTMAN Inlet Works Recycle Water Upgrade".		
FY28 Q1						This project involves installing a new water supply to the screens building at Mangere WWTP including pumping from the effluent channel, contrashear, and piping to the screens at the inlet building. This project will prevent loss of plant due to pressure loss in the WEH supply, and decrease maintenance intervals in clearing of the screens	3 - 10 Million	within panel
				WW0001454	Mangere WWTP Potable Water Pipework Replacement	XXX124 - Mission Heights PS - Upgrade - - 15 Years old - need to review Brendon's work	< 3 Million	within panel
	Water Pipeline Renewals		Execution	WA0001416	Mission Heights PS - Upgrade	WW0001417 - The Pleasant Road Pump Station (PRPS) Replacement project addresses the end-of-life renewal of a critical water infrastructure asset serving West Auckland. Originally designed to boost flow from the Huia 2 Watermain to the Waitakere Reservoir, the station was repurposed in 2023 following flood-related damage to instead supply the Highland Avenue Bulk Supply Point (BSP). This change eliminated its dual-supply function, reducing network resilience.		
						This project will deliver feasibility and concept design for: A new dual-pump configuration within a single building—one set dedicated to the Highland Ave BSP, and one to the Waitakere Reservoir via the Waitakere 1 Watermain. Enhanced supply resilience and operational flexibility during network failures or planned outages. Capacity upgrades to support future growth and shutdowns at the Waitakere WTP and raw watermain. Consideration of new site acquisition due to existing spatial constraints.		
				WA0001417	Pleasant Rd PS Replacement	The upgrade will restore critical redundancy, support ~15,000 residents, and strengthen West Auckland's water supply resilience.	10 - 20 Million	within panel
						This transmission watermain has two fundamental needs: - provide a cross connection between Waikato No.1 WM and Waikato No.2 WM. - provide a transmission supply to the north of Pukekohe where the Paerata WSZ can be supplied from to service growth in the Wesley/ Paerata area over the next 50 years.		
	Discrete Projects		Execution	WA0001343	Wesley/Paerata Watermain	By 2028, the population in Paerata is forecast to grow by +13650 PE vs 2018 levels, and then by a subsequent +5400 PE by 2038. This watermain upgrade will provide capacity to provide for the full +19150 PE growth in the region. Further, the line provides resilience to the existing network by providing redundancy.	50 - 100 Million	outside panel
				WW0001005	Howick WW Catchment System Upgrades	Proposed Howick Diversion consisting of a new pump stations and associated network upgrades in Aviemore and Millhouse Parks to provide for growth and mitigate sewer overflows from the Howick interceptor, the Bucklands Beach branch sewer, Pakuranga pump station (DP5028) and local branch sewers.	30 - 50 Million	outside panel
	Major Projects	Major Projects	Design	WW0001573	Pukekohe Upgrade Stage 3 (Pe Plus 30 0000)	Pukekohe upgrade stage 3 (PE plus 30,000)	100 - 250 Million	outside panel
		Electrical	Execution	WW0001766	DTMAN Switchboards Replacement FY25	This project will increase the capacity of the Pukekohe WWTP by about 30,000PE.	10 - 20 Million	within panel
FY28 Q1	Asset Upgrades & Renewals	Wastewater & Water Treatment Plants	Design	WA0001486	Helensville WTP Process Improvements	Replacement of six HV and six LV switchboards at Mangere WWTP	3 - 10 Million	within panel
				WW0001440	Rosedale WWTP Anammox Side Stream	XXX050 - Helensville WTP Capacity Upgrade -To add Production capacity to the Helensville township to enable development	10 - 20 Million	within panel
			Execution	WA0001521	Warkworth Southern Zone - Sanderson Rd WTP Upgrade	XXX071 - DTROS Anammox side stream design and implementation -	< 3 Million	within panel
				WW0001438	Rosedale WWTP PST Enhancement (Fat Collection)	XXX648 - Southern Zone - Boost pump station - at sanderson Rd WTP. -	< 3 Million	within panel
				WW0001449	Mangere WWTP New admin building	XXX124 - DTROS PST full scale trial and design (CEPT or AAU) - Energy Resiliability -	30 - 50 Million	within panel
			Design	WW0001452	Opaheke Wastewater Servicing - Trunk Rising	XXX114 - New admin building - separation of production from public - H&S, security driven -	3 - 10 Million	within panel
	Wastewater Pipeline Renewals		Execution	WW0001133	Linwood Avenue Pipe Upgrades	XXX025 - Opaheke Wastewater Servicing - trunk RM main - Opaheke to Hingiaa PS.Tie in with NZTA timing Parker Estate 3 -	10 - 20 Million	within panel
				WW0001180	Gulf Harbour Wastewater Servicing	The aim of this project is to upgrade the chemical facilities at the WaitakereWater Treatment Plant (WTP) to ensure com	3 - 10 Million	within panel
				WW0001390	Clevedon WW Stage 3	This project is to allow for population growth for the next 30 years in Gulf Harbour. The project includes building a local	10 - 20 Million	within panel
				WW0001460	Otaua local network upgrade	Future wastewater rising main from Clevedon to the Takanini Branch Sewer, plusvacuum pipeline (pink pipe) through CC3 -	3 - 10 Million	within panel
FY28 Q1				WW0001678	WIIWQIP Avondale Whau CC7A CC7A1 to Miranda Shaft	The project requires an upgrade of the wastewater network that is serving Otara,Papatoetoe and part offFlat Bush catch	20 - 30 Million	within panel
				WA0001397	Mangere Watermain High Volume Flushing Valve	The project is associated with upgrading CC7A and CC7A1 EOP collector sewers toaddress current performance issues, p	3 - 10 Million	within panel
	Water Pipeline Renewals		Design	WA0001503	WVs West Coast Road Cross Connection-NH 2 To NH1	Link between Hunua 3 and 4 via Mangere WM - - enables redundancy to the wholeof Mangere zone. Needs flushing va	< 3 Million	within panel
				WA0001130	Hingiaa Watermain East/West	The Southern Growth Area (SGA) encompassing Hingiaa, Drury, Auranaga, Opaheke andPaerata is due to undergo signif	10 - 20 Million	within panel
			Execution	WA0001321	Clevedon Water Stage 3	Future Reservoir and access road in Clevedon.	3 - 10 Million	within panel
				WA0001385	Warkworth Western Zone - Boost Pump Station	XXX062 - Western Zone - Boost pump station -	3 - 10 Million	within panel
				WA0001503	WVs West Coast Road Cross Connection-NH 2 To NH1		3 - 10 Million	within panel
				WA0001637	Zita Pumped Zone Reconfiguration		< 3 Million	within panel
	Discrete Projects	Discrete Projects	Design	WA0001037	Woodlands Park Reservoir & Pipelines	A new water treatment plant is to be constructed to replace the current Huia WTPwhich is nearing the end of its plant	30 - 50 Million	outside panel
			Execution	WA0001041	Hunua 2 Watermain (Ti Rakau Bridge)	The existing Hunua 2 pipe bridge at Pakuranga Creek/Ti Rakau Drive is in poorcondition and requires significant repair	30 - 50 Million	outside panel
FY28 Q1	Major Projects	Major Projects	Design	WA0001175	Orewa to Stanmore WW Trunk Network Upgrade		50 - 100 Million	outside panel
				WA0001123	WWS Upper Nihotupu Raw Watermain Replacement	This project aims to identify the feasibility and preferred option forreplacement of the Upper Nihotupu Raw Watermain	100 - 250 Million	outside panel