

FORWARD WORKS - SIGNIFICANT PROJECTS / PROGRAMMES (JUNE 2017)

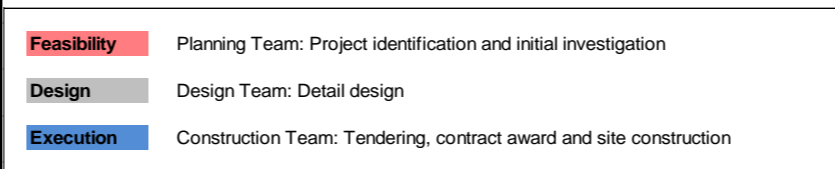
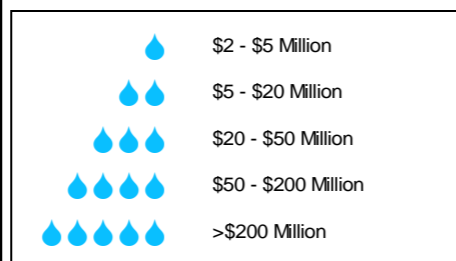
> \$ 2 Million

Project / Programme	Activity Description	Category	Cost Range	2017		2018				2019				2020			
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Huia WTP Upgrade	Construction of new Water Treatment Plant at Huia.	A	4														
Waikato WTP 175MLD Expansion Stage	Installation/ upgrade of plant processes (including sand separation, clarification, membrane unit process additions).	A	3														
Ardmore WTP Treated Water Resilience	Plant modification to allow separation into two separate process streams.	A	3														
Helensville WTP and Trunk Main	Helensville WTP and Trunk Main upgrade.	A	2														
Warkworth Wells WTP	Construction of a new water treatment plant to replace the existing plant in Warkworth.	A	2														
Wellsford WTP Upgrade	Capacity and process upgrade of the existing Wellsford water treatment plant.	A	2														
Waiuku WTP Upgrade	Upgrade of Waiuku Water Treatment Plant to increase capacity.	A	2														
Ardmore WTP UV	Addition of UV treatment to Ardmore Water Treatment Plant to increase resilience.	A	1														
Huia WTP 110 MLD Capacity Restoration Upgrade	Upgrade of plant solids handling systems including sludge dewatering system, PAC plant replacement and centrifuge upgrade.	A	1														
Onehunga WTP UV	Additional treatment process for Onehunga water treatment plant.	A	1														
Ardmore WTP Solar Power Installation	Ardmore WTP Solar Power Installation.	A	1														
Snells WWTP Upgrade	Upgrade WWTP to service Warkworth, Snells Beach and Algies Bay.	B	4														
Mangere WWTP BNR Capacity	Construction and commissioning of wastewater treatment plant process units to provide for population growth.	B	4														
Pukekohe WWTP Upgrade	Upgrade the WWTP capacity from 260l/s to 520l/s.	B	4														
Rosedale WWTP Expansion Project	Expansion of treatment plant including a new PST, SBTR and new thermal hydrolysis plant.	B	4														
Mangere WWTP Solids Stream Upgrade	Construction of solids stream process as part of Mangere Wastewater Treatment Plant upgrades.	B	4														
Snells Algies WWTP Ocean Outfall	Replacement of existing outfall with approximately 7.6km of 0.4m dia pipe.	B	3														
Mangere WWTP Thermal Hydrolysis	Mangere WWTP Thermal Hydrolysis.	B	3														
Army Bay WWTP Outfall Upgrade	Construction of approximately 3km of 1.2m dia sea discharge outfall, pump station and UV upgrades.	B	3														
Puketutu Island Rehabilitation	Rehabilitation of Puketutu Island by application of biosolids.	B	3														
Rosedale WWTP Pond Link	Upgrade pond link at Rosedale. To be delivered in conjunction with NZTA.	B	2														
Mangere WWTP Sludge Tanks Upgrade	Replacement of 5 sludge tanks at the Mangere WWTP.	B	2														
Wellsford WWTP Upgrade	Wellsford WWTP Upgrade to cater for growth.	B	2														
Warkworth WWTP Upgrade	Provide a side stream 250m3/d MBR package plant and all ancillary systems.	B	1														
Clarks Beach WWTP Upgrade	Provide a side stream 150-250m3/d MBR package plant and all ancillary systems.	B	1														
Owhanake WWTP Upgrade Project	Upgrade of Owhanake wastewater treatment plant to cater for increased flow.	B	1														
Mangere WWTP UV Improvements	Mangere WWTP UV Improvements.	B	1														
North Harbour Watermain Duplication - Northern	Capacity and resilience upgrade to support growth and reliability of North Shore supply.	C	4														
North Harbour Watermain Duplication - Southern	Capacity and resilience upgrade to support growth and reliability of North Shore supply.	C	4														
North Harbour Watermain Duplication - GBWD	Capacity and resilience upgrade to support growth and reliability of North Shore supply.	C	4														
Hunua 4 Section 11	Installation of 4km x 1.5m pipeline from Market Road to the Khyber Reservoir complex.	C	4														
Huia 1 and Nihotupu 1 Replacement Stg 2	Huia 1 and Nihotupu 1 Replacement Stg 2.	C	4														
Orewa Number 1 Replacement Stg 3	Water transmission main replacement - Stg 3.	C	3														
Huia 1 and Nihotupu 1 Replacement Stg 1	Treated water transmission pipeline replacement.	C	3														

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Huia 1 and Nihotupu 1 Replacement Stg 3	Treated water transmission pipeline replacement.	C	3														
Clevedon Water Servicing	Installation of reservoir and local network distribution system.	C	2														
CBD Loop Main	Transmission watermain in Auckland CBD.	C	2														
CBD - High-Level Zone	Water transmission capacity upgrade to service growth.	C	2														
Hunua 2 Watermain (Ti Rakau Bridge)	Water transmission upgrade.	C	1														
Howick Watermain Upgrade	Water transmission main upgrade.	C	1														
Water Pipe Renewal	Local water network renewals / upgrades.	D	3														
Meter Planned Replacement	Replacement of water meters.	D	2														
Valve Renewal	Local network valve replacements.	D	1														
Hydrant Renewal	Local network hydrant renewals.	D	1														
Local water networks renewal programme	Local water network renewals and upgrades.	D	1														
Central Interceptor	Construction of large diameter wastewater tunnel, shafts, pump station and associated link sewers.	E	5														
Warkworth to Snells Transfer Pipeline	Installation of new conveyance sewer from Warkworth to Snells Wastewater Treatment Plant.	E	4														
South West Wastewater Servicing	To provide wastewater servicing to Waikuku, Clarks Beach and Kingseat in the long term.	E	4														
Northern Interceptor - Stage 1	Capacity upgrade and strategic northern diversion with a long rising main from Hobsonville to Rosedale.	E	4														
Pukekohe Trunk Sewer Upgrade	New sewer to replace aged asset and provide for growth.	E	3														
East Coast Bays Link Sewer Upgrade	Installation of link sewer between Windsor Park and Rosedale treatment plant (part of Rosedale expansion project).	E	3														
Glendowie Branch Sewer Upgrade	New wastewater pump station and pipeline. Construction tenderers shortlisted.	E	3														
Otara WW Catchment System Upgrades	Additional wastewater transmission.	E	2														
Howick WW Catchment System Upgrades	Additional wastewater transmission capacity to service brownfield growth.	E	2														
Clevedon Wastewater Upgrade	Installation of network pump station and rising main to service Clevedon.	E	2														
Red Hills Wastewater Upgrade	Installation of transmission sewer and pump station to service growth.	E	2														
Southern Interceptor Capacity Augmentation	Additional wastewater transmission capacity to service Southern Future Urban Zoned land.	E	2														
Waitakere Northern & KHR Servicing	Additional wastewater transmission capacity to service Whenuapai Future Urban Zoned land.	E	2														
Upgrade of North Shore TS8	Upgrade / replacement of trunk sewer.	E	2														
Siphon Replacements	Construction of siphons in Massey and Swanson.	E	2														
Eastern Interceptor Rehabilitation Programme - Stg 2	Rehabilitation of the Eastern Interceptor.	E	1														
Lawsons Creek Branch Sewer Duplication	Lawsons Creek Branch Sewer duplication to cater for growth in West Harbour.	E	1														
Wairau Wastewater Rising Main	Additional wastewater transmission capacity to service brownfield growth and replace existing asset.	F	2														
Forrest Hill WW Catchment Diversion	Additional wastewater transmission capacity to service brownfield growth.	F	2														
Wynyard Quarter Gravity Sewer	Replacement of the sewer network as part of area upgrade. Entrusted works through Auckland Transport.	F	2														
Queen Street Diversion	Local sewer upgrade.	F	2														
Waiwera Diversion to Hatsfield	Extension of wastewater system from Hatfields Beach to Waiwera.	F	2														
Franklin Road / Collingwood Street Separation	Sewer/storm water separation works.	F	1														
Fred Thomas Drive WW PS & Storage Tank	Construction of pump station, storage tank and rising main.	G	3														
Wairau Wastewater Pump Station	Replacement of Pump Station.	G	3														
Albany Pinehill Watermain & Pumping Station	New pump station, chlorine booster station and a water main from Albany to Pinehill reservoirs.	G	3														

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Northcote-Chatswood Wastewater Improvements	Additional wastewater transmission capacity to service brownfield growth.	G	2														
Sidmouth Wastewater PS Mairangi Bay Upgrade	Sidmouth wastewater pump station upgrade and storage tank construction.	G	2														
Wynyard Quarter Wastewater Pump Station	Construction of new Pump Station and Rising Main.	G	2														
East Coast Bays No 2 Boost Pumping	Boost pumping of East Coast Bays mains to increase capacity.	G	2														
Northboro WW Pump Station Upgrade	Northboro WW Pump Station upgrade to cater for growth.	G	1														
Pakuranga Pipe Work Replacement PS 28	Replace pump station internal pipework. The work is part of an existing construction contract.	G	1														
Northcote - Pump Station	Pump station upgrades.	G	1														
Pukekohe East Reservoir	New 50ML water reservoir in Pukekohe East.	H	4														
Redoubt Road Reservoir Expansion	New 50ML reservoir at Redoubt Road reservoir complex.	H	3														
Glen Eden Storage & Pipe Upgrade	Construction of a storage tank with a branch sewer upgrade.	H	2														
Reservoir Renewal Programme	Reservoir renewals.	H	1														
Redoubt Road Upgrades (Watermain & Reservoir Outlet)	Redoubt Road watermain upgrades (watermain & reservoir outlet).	H	1														
Communication Networks Infrastructure	Communication networks infrastructure expansion (capacity and geographic coverage).	K	2														
Franklin Area Control Upgrade	Upgrade in the Franklin area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
Rodney Area Control Upgrade	Upgrade in the Rodney area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
North Shore Area Control Upgrade	Upgrade in the North Shore area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
Waitakere Area Control Upgrade	Upgrade in the Waitakere area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
Manukau Area Control Upgrade	Upgrade in the Manukau area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
MetroWater Area Control Upgrade	Upgrade in the central area to the RTU, Radio and SCADA system used in the Watercare transmission system.	K	2														
Elect. Infrastr. Upgrade Rosedale WwTP	New 11kV supplies and switchgear.	K	2														
Local Networks SCADA System	Expansion of core transmission SCADA system infrastructure to allow regional integration.	K	1														
Mangere WWTP Electrical Reticulation Upgrade	11kV ring main installation.	K	1														
Control Network Security Upgrade	Feasibility - Work to implement cyber security systems throughout the control network.	K	1														
Mangere Digester Electrical Upgrade 2A	Upgrade of 11kV and 400V distribution for Digester area at Mangere WWTP.	K	1														

Reference	Category
A	Water Plant Construction
B	Wastewater Plant Construction
C	Water Main Transmission
D	Water Main Networks
E	Sewer Line Transmission
F	Sewer Line Networks
G	Pump Station Construction
H	Storage Tank and Reservoir Construction
I	Dam Construction
J	Cogeneration Plant Construction
K	Electrical and Controls
L	Planning and Water Resource Development
M	Consenting



The Forward Works Programme is indicative only and subject to change at any time. (Published June 2017)