

Wastewater

Purpose

Protection of the public and environmental health, through treatment of wastewater in selected areas.

Legislation associated with this service

- Local Government Act 2002
- The Health (Drinking Water) Amendment Act 2007
- Drinking-water Standards for New Zealand 2005 and 2018
- Resource Management Act 1991.

Risks and Issues

- Failure of a scheme due to the age of the assets, and the inaccessibility for inspections (pipes are underground so difficult to find and inspect adequately)
- Affordability, the cost to repair and provide service with aging pipes coupled with small communities served by a scheme can push the expenses (and rates) out of reach for communities
- Higher environmental standards for discharge consents (treated wastewater released into harbours or rivers), will require communities to front the costs of upgrading equipment or services to meet the standards
- The Mangawhai Community Wastewater Scheme (MCWWS) requires implementation of recommended upgrades to the wastewater treatment plant. The modelling for the reticulation determines future upgrades and includes consideration for Mangawhai Central Development
- Our Infrastructure Strategy assumes a continuation of land-based disposal options through increased efficiency and alternative disposal options
- The exact future capacity of the five other wastewater schemes is unknown until specific capacity analyses (modelling) are undertaken
- Ongoing asset management condition and performance assessments required to prioritise maintenance and renewals.

How we fund this Group

- Targeted rates
- Development contributions
- User fees and charges
- Borrowing
- Asset sales and
- General rate.

What we do

We collect, treat, and dispose of wastewater through sustainable, cost effective and environmentally friendly methods. We own and operate wastewater schemes for Glink's Gully, Te Kopuru, Dargaville, Maungatūroto, Kaiwaka and Mangawhai. We undertake asset management, planning, operation and maintenance of the wastewater schemes, capital and refurbishment programmes and consent monitoring and compliance, along with responsibility of professional and physical works undertaken on the network.

Contribution to Community Outcomes

- Climate change: Manage our wastewater to minimise negative effects of climate change.
- Vibrant communities: Manage our service to ensure communities and business are supported.
- Healthy environment: Manage wastewater standards with discharge having no detrimental effects on the environment.

What we will deliver

Des	scription	When
•	Investigating the disposal system for MCWWS	2021/2022
•	Undertake wastewater modelling for the district	
•	Investigation and documentation of asset conditions	
•	Continue the extension of the MCWWS reticulation and disposal system	
•	Start construction of the balance tank for the MCWWS	
•	Investigate alternative usages for sludge from MCWWS	
•	Plan for 3 waters reform	
•	Wastewater rate equalisation will see a correction of wastewater rates across the district	
•	Investigate and construct a wastewater treatment extension for Spring Street (Dargaville)	
	residential subdivision	
•	Investigate options assessment for a wastewater scheme in Paparoa	
•	Work programme implemented for disposal system MCWWS	2022/2023
•	Continue wastewater modelling for the district	
•	Work programme designed for asset replacement or renewal	
•	Determine feasible option for sludge usage MCWWS	
•	Construct disposal system for MCWWS	2023/2024
•	Commence development for recyclable use of sludge from MCWWS	
•	Implement outcomes from wastewater modelling	
•	Asset replacement and renewal work commences	
•	Implement outcomes from 3 waters reform	
•	Construct and complete disposal system for MCWWS	2024/2031
•	Develop a recyclable use of sludge from MCWWS	
•	Upgrade the Dargaville Wastewater Treatment Plant to increase capacity	

Performance Measures

	LTP Year 1	LTP Year 2	LTP Year 3	LTP Years 4-10
	Target	Target	Target	Target
	2021/2022	2022/2023	2023/2024	2024/2031
The number of dry weather sewage overflows from Council's sewerage systems, expressed per 1,000 sewerage connections to that sewerage system. The resource consent provides for severe weather events and power failure exceptions.	≤1	≤1	≤1	≤1

	LTP Year 1 Target 2021/2022	LTP Year 2 Target 2022/2023	LTP Year 3 Target 2023/2024	LTP Years 4-10 Target 2024/2031
Where Council attends to sewage overflows resulting from a blockage or other fault in the territorial authority's sewerage system, the following median response times apply:	≤2 hours	≤2 hours	≤2 hours	≤2 hours
Attendance time: from the time that the territorial authority receives notification to the time that service personnel reach the site. (Department of Internal Affairs measure)				
Where Council attends to sewage overflows resulting from a blockage or other fault in theterritorial authority's sewerage system, the following median response times apply:	≤48 hours	≤48 hours	≤48 hours	≤48 hours
Resolution time: from the time that the territorial authority receives notification to the time that service personnel confirm resolution of the blockage or other fault.				
The total number of complaints received by Council about sewage odour. Expressed per 1,000 sewerage connections.	≤10	≤10	≤10	≤10
The total number of complaints received by Council about sewerage system faults e.g. blockages, breaks. <i>Expressed per 1,000</i> sewerage connections.	≤27	≤26	≤25	≤24
The total number of complaints received by Council about Council's response to issues with its sewerage system. Expressed per 1,000 sewerage connections.	≤50	≤48	≤46	≤44
The number of abatement notices, infringement notices, enforcement orders and convictions received by Council in relation to its resource consents for discharge from its sewerage systems.	0	0	0	0
Major capital projects are completed within budget.	Achieved	Achieved	Achieved	Achieved

Changes in Levels of Service

There will be no changes to the level of service.

Significant Negative effects

Activity	Effect	Mitigation
Environmental Health	In case of failure or significant breakage, there could be contamination of public waterways which may have large environmental or personal health issues.	Remote monitoring and alarms are in place for operators to react quickly to contain any spillages. For pump stations, use of sucker trucks. For pipe breakages, quick responses, and containment of spillage before it gets to waterways
Renewals	The rising cost of ongoing maintenance or pipe renewal may become economically unrealistic.	Use competitive bidding as afar as possible and create price and quality tension for better results.
Wastewater plants	Failure of a wastewater treatment plant (WTP) in meeting the resource consent may result in Northland Regional Council (NRC) issuing an infringement notice.	Ongoing close monitoring of performance and acting quickly to rectify.
Population growth	Urban areas such as Mangawhai are experiencing rapid growth and this is projected to continue requiring infrastructure planning to remain ahead of this growth.	Growth projections are factored into current modelling that informs upgrades of reticulated wastewater network, wastewater treatment plant and disposal systems to increase capacity. Growth and its impacts on modelling are reviewed regularly.

How are we considering Climate change?

Council's Climate Smart Community Outcome guides Wastewater activities. Kaipara's changing climate will impact on wastewater activities. Increasing average temperatures and changes to rainfall patterns will increase pressure on treatment plant and on the wastewater network. Sea level rise and increasing risk from coastal hazards will also impact Council's low-lying assets in the wastewater network. These changes will increase the risk of flooding and overflow due to increased inflow and infiltration. Discharge allowances are likely to decrease. We understand these risks will impact on current expected levels of service and costs to provide expected services, and we will need to be adaptive and strategic to meet expected levels of service.

We also understand we have a responsibility to manage these risks and protect the natural environment and communities. We will continue to explore adaptation opportunities in our wastewater activities, including seeking out ways to manage inflows and infiltration during heavy rainfall. We will continue to consider climate change impacts as we make management decisions for our wastewater activities. Considerations in planning and design include carrying out, where feasible, climate scenario analysis and risk analysis for major projects or operational works.

Prospective Funding Impact Statements - Wastewater

	Annual										
For the year ended:	Plan	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget
30 June	2020-2021 \$'000	2021-2022 \$'000	2022-2023 \$'000	2023-2024 \$'000	2024-2025 \$'000	2025-2026 \$'000	2026-2027 \$'000	2027-2028 \$'000	2028-2029 \$'000	2029-2030 \$'000	2030-2031 \$'000
Prospective Funding Impact State		,	,	,	,	,	,	,	,	,	,
Activity selection: Sewerage and the Treatment and D		II, AII									
One weaking founding											
Operating funding Sources of operating funding											
General rates, uniform annual general											
charges, rate penalties	1,484	1,449	880	928	722	637	677	691	805	790	831
Targeted rates	6,018	5,796	6,090	6,420	6,647	6,779	7,025	7,368	7,819	8,133	8,340
Subsidies and grants for operating purposes	0	0	0	0	0	0	0	0	0	0	0
Fees and charges	9	26	27	28	29	30	31	32	33	34	35
Internal charges and overheads recovered Interest and dividends from investments	0	0	0	0	0	0	0	0	0	0	0
Local authorities fuel tax, fines, infringe-	O	U	U	U	U	U	U	U	U	U	U
ment fees and other receipts	0	0	0	0	0	0	0	0	0	0	0
Total operating funding	7,511	7,271	6,996	7,377	7,398	7,446	7,732	8,091	8,657	8,957	9,207
Application of operating funding	-,	.,	5,555	.,	.,	.,	.,	3,332	-,	-,	-,
Payments to staff and suppliers	2,883	2,190	2,243	2,286	2,244	2,314	2,389	2,449	2,437	2,513	2,591
Finance costs	2,564	2,026	2,243	1,960	1,626	1,265	1,279	1,252	1,448	1,311	1,331
Internal charges and overheads recovered	1,385	1,536	1,578	1,704	1,704	1,744	1,817	1,884	1,957	2,028	2,053
Other operating funding applications	0	0	0	0	0	0	0	0	0	0	0
Total applications of operating funding	6,831	5,751	5,831	5,950	5,574	5,323	5,485	5,585	5,842	5,852	5,975
Surplus (deficit) of operating funding	680	1,520	1,166	1,427	1,824	2,122	2,247	2,506	2,815	3,105	3,232
	Annual										
For the year ended:	Plan	Rudget	Rudget	Rudget	Rudget	Rudget	Rudget	Rudget	Rudget	Rudget	Rudget
For the year ended: 30 June	Plan 2020-2021	Budget 2021-2022	Budget 2022-2023	Budget 2023-2024	Budget 2024-2025	Budget 2025-2026	Budget 2026-2027	Budget 2027-2028	Budget 2028-2029	Budget 2029-2030	Budget 2030-2031
30 June	2020-2021 \$'000										
30 June Prospective Funding Impact State	2020-2021 \$'000	2021-2022 \$'000	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
30 June	2020-2021 \$'000	2021-2022 \$'000	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
30 June Prospective Funding Impact State	2020-2021 \$'000	2021-2022 \$'000	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding	2020-2021 \$'000	2021-2022 \$'000	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding	2020-2021 \$'000	2021-2022 \$'000	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding	2020-2021 \$'000 ement isposal of Sewage, Al	2021-2022 \$'000	2022-2023 \$'000	2023-2024 \$'000	2024-2025 \$'000	2025-2026 \$'000	2026-2027 \$'000	2027-2028 \$'000	2028-2029 \$'000	2029-2030 \$'000	2030-2031 \$'000
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt	2020-2021 \$1000 ement is posal of Sewage, Al 0 2,436 -715	2021-2022 \$'000 III, AII 491 2,130 -54	2022-2023 \$'0000 0 2,167 -47	2023-2024 \$'000 0 2,168 -622	0 2,157 -330	2025-2026 \$'000 0 2,151 -359	0 2,145 -192	2027-2028 \$'000 0 2,141 1,512	2028-2029 \$'000 0 2,140 -164	2029-2030 \$'000 0 2,117 -795	2030-2031 \$'000 0 2,117 -818
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0	2021-2022 \$'000 III, AII 491 2,130 -54 0	2022-2023 \$'000 0 2,167 -47 0	0 2,168 -622 0	0 2,157 -330 0	0 2,151 -359 0	0 2,145 -192	0 2,141 1,512 0	0 2,140 -164	0 2029-2030 \$'000 0 2,117 -795 0	00 2,117 -818 0
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0	2021-2022 \$'000 III, AII 491 2,130 -54 0 0	2022-2023 \$'000 0 2,167 -47 0 0	0 2,168 -622 0	0 2,157 -330 0	00 \$'000 0 2,151 -359 0	0 2,145 -192 0	0 2,141 1,512 0 0	0 2,140 -164 0	0029-2030 \$'000	00 2,117 -818 0
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Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0	2021-2022 \$'000 III, AII 491 2,130 -54 0 0	2022-2023 \$'000 0 2,167 -47 0 0	0 2,168 -622 0	0 2,157 -330 0	00 \$'000 0 2,151 -359 0	0 2,145 -192 0	0 2,141 1,512 0 0	0 2,140 -164 0	0029-2030 \$'000	00 2,117 -818 0
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0	2021-2022 \$'0000	2022-2023 \$'000 0 2,167 -47 0 0	2023-2024 \$'000 0 2,168 -622 0 0	0 2,157 -330 0 0	0 2,151 -359 0 0	0 2,145 -192 0 0	2027-2028 \$'000 0 2,141 1,512 0 0	2028-2029 \$'000 0 2,140 -164 0 0	2029-2030 \$'000 0 2,117 -795 0 0	2030-2031 \$'0000 0 2,117 -818 0 0
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0	2021-2022 \$'0000	2022-2023 \$'000 0 2,167 -47 0 0	2023-2024 \$'000 0 2,168 -622 0 0	0 2,157 -330 0 0	0 2,151 -359 0 0	0 2,145 -192 0 0	2027-2028 \$'000 0 2,141 1,512 0 0	2028-2029 \$'000 0 2,140 -164 0 0	2029-2030 \$'000 0 2,117 -795 0 0	2030-2031 \$'0000 0 2,117 -818 0 0
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding Capital expenditure -to meet additional demand Capital expenditure	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0 0 1,721	2021-2022 \$'0000 III, AII 491 2,130 -54 0 0 0 2,567	2022-2023 \$'000 0 2,167 -47 0 0 0 2,120	2023-2024 \$'000 0 2,168 -622 0 0 0 1,546	0 2,157 -330 0 0 1,828	0 2,151 -359 0 0 1,792	0 2,145 -192 0 0 1,953	2027-2028 \$'000 0 2,141 1,512 0 0 0 3,654	2028-2029 \$'000 0 2,140 -164 0 0 0 1,976	2029-2030 \$'000 0 2,117 -795 0 0 0 1,322	2030-2031 \$'000 0 2,117 -818 0 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding Capital expenditure -to meet additional demand Capital expenditure -to improve the level of service	2020-2021 5'000 ement is posal of Sewage, Al 0 2,436 -715 0 0 0	2021-2022 \$'000 III, AII 491 2,130 -54 0 0 2,567	2022-2023 \$'000 0 2,167 47 0 0 0 2,120	0 2,168 -622 0 0	0 2,157 -330 0 0 1,828	0 2,151 -359 0 0 1,792	0 2,145 -192 0 0 1,953	2027-2028 \$'000 0 2,141 1,512 0 0 0	0 2,140 -164 0 0 1,976	0 2,117 -795 0 0 1,322	0 2,117 -818 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding Capital expenditure -to improve the level of service Capital expenditure	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0 0 1,721 2,053 528	2021-2022 \$'000 III, AII 491 2,130 -54 0 0 0 2,567 4,666 574	2022-2023 \$'000 0 2,167 -47 0 0 0 2,120	0 2,168 -622 0 0 1,546	0 2,157 -330 0 0 1,828	0 2,151 -359 0 0 1,792	0 2,145 -192 0 0 1,953	0 2,141 1,512 0 0 3,654 9,851 2,662	0 2,140 -164 0 0 1,976	0 2,117 -795 0 0 1,322	0 2,117 -818 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding Capital expenditure -to meet additional demand Capital expenditure -to improve the level of service	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0 0 1,721	2021-2022 \$'0000 III, AII 491 2,130 -54 0 0 0 2,567	2022-2023 \$'000 0 2,167 -47 0 0 0 2,120	2023-2024 \$'000 0 2,168 -622 0 0 0 1,546	0 2,157 -330 0 0 1,828	0 2,151 -359 0 0 1,792	0 2,145 -192 0 0 1,953	2027-2028 \$'000 0 2,141 1,512 0 0 0 3,654	2028-2029 \$'000 0 2,140 -164 0 0 0 1,976	2029-2030 \$'000 0 2,117 -795 0 0 0 1,322	2030-2031 \$'000 0 2,117 -818 0 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Applications of capital funding Capital expenditure - to meet additional demand Capital expenditure - to improve the level of service Capital expenditure - to replace existing assets	2020-2021 \$1000 ement isposal of Sewage, Al 0 2,436 -715 0 0 0 1,721 2,053 528 515	2021-2022 \$'0000 III, AII 4911 2,1300 -54 0 0 0 2,567 4,666 574	2022-2023 \$'000 0 2,167 -47 0 0 0 2,120 1,187 0	0 2,168 -622 0 0 1,546	0 2,157 -330 0 0 1,828	0 2,151 -359 0 0 1,792	0 2,145 -192 0 0 1,953	2027-2028 \$'000 0 2,141 1,512 0 0 3,654 9,851 2,662 596	2028-2029 \$'000 0 2,140 -164 0 0 0 1,976 2,908 370 743	2029-2030 \$'000 0 2,117 -795 0 0 0 1,322	0 2,117 -818 0 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Capital expenditure -to meet additional demand Capital expenditure -to improve the level of service Capital expenditure -to replace existing assets Increase (decrease) in reserves	2020-2021 5'000 ement is posal of Sewage, Al 2,436 -715 0 0 1,721 2,053 528 515 -695	2021-2022 \$'000 III, AII 491 2,130 -54 0 0 0 2,567 4,666 574 836 -1,989	2022-2023 \$'000 0 2,167 -47 0 0 2,120 1,187 0 687 1,412	2023-2024 \$'000 0 2,168 -622 0 0 0 1,546 43 0 328 2,602	2024-2025 \$'000 0 2,157 -330 0 0 0 1,828 1,158 0 799 1,695	2025-2026 \$'000 0 2,151 -359 0 0 1,792 2,350 0 599 966	0 2,145 -192 0 0 1,953 3,326 0	2027-2028 \$ 000 0 2,141 1,512 0 0 3,654 9,851 2,662 596 -6,949	2028-2029 \$'000 0 2,140 -164 0 0 0 1,976 2,908 370 743 770	2029-2030 \$'000 0 2,117 -795 0 0 0 1,322	0 2,117 -818 0 0 1,298
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Capital expenditure -to meet additional demand Capital expenditure -to improve the level of service Capital expenditure -to replace existing assets Increase (decrease) in reserves Increase (decrease) of investments Total applications of capital funding	2020-2021 5'000 ement is posal of Sewage, Al 2,436 -715 0 0 1,721 2,053 528 515 -695 0	2021-2022 \$'000 III, AII 491 2,130 -54 0 0 2,567 4,666 574 836 -1,989 0	2022-2023 \$'000 0 2,167 -47 0 0 2,120 1,187 0 687 1,412 0	2023-2024 \$'000 0 2,168 -622 0 0 0 1,546 43 0 328 2,602 0	2024-2025 \$'000 0 2,157 -330 0 0 1,828 1,158 0 799 1,695 0	2025-2026 \$'000 0 2,151 -359 0 0 0 1,792 2,350 0 599 966 0	2026-2027 \$'000 0 2,145 -192 0 0 0 1,953 3,326 0 733 141 0	2027-2028 \$ 000 0 2,141 1,512 0 0 3,654 9,851 2,662 596 -6,949 0	2028-2029 \$'000 0 2,140 -164 0 0 1,976 2,908 370 743 770 0	2029-2030 \$'000 0 2,117 -795 0 0 1,322 53 0 440 3,935 0	2030-2031 \$'0000 2,117 -818 0 0 0 1,298 3,652 0 455 423 0
Prospective Funding Impact State Activity selection: Sewerage and the Treatment and D Capital funding Sources of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets Lump sum contributions Other dedicated capital funding Total sources of capital funding Capital expenditure -to meet additional demand Capital expenditure -to improve the level of service Capital expenditure -to replace existing assets Increase (decrease) in reserves Increase (decrease) of investments	2020-2021 \$1000 Pment is posal of Sewage, Al 2,436 -715 0 0 1,721 2,053 528 515 -695 0 2,401	2021-2022 \$'0000 III, AII 491 2,130 -54 0 0 2,567 4,666 574 836 -1,989 0 4,087	2022-2023 \$'000 0 2,167 -47 0 0 2,120 1,187 0 687 1,412 0 3,286	2023-2024 \$'000 0 2,168 -622 0 0 1,546 43 0 328 2,602 0 0	2024-2025 \$'000 0 2,157 -330 0 0 0 1,828 1,158 0 799 1,695 0	2025-2026 \$'000 0 2,151 -359 0 0 0 1,792 2,350 0 599 966 0 0	2026-2027 \$'000 0 2,145 -192 0 0 1,953 3,326 0 733 141 0	2027-2028 \$ 000 0 2,141 1,512 0 0 3,654 9,851 2,662 596 -6,949 0 6,160	2028-2029 \$'000 0 2,140 -164 0 0 1,976 2,908 370 743 770 0 4,791	2029-2030 \$'000 0 2,117 -795 0 0 1,322 53 0 440 3,935 0 4,427	2030-2031 \$'000 2,117 -818 0 0 0 1,298 3,652 0 455 423 0