

Stormwater

Purpose

Stormwater drainage protects our communities, infrastructure, and public places from flooding by discharging stormwater and collecting contaminants to minimise adverse effects from rain, runoff, and high tides.

Stormwater drainage on state highways is managed by NZ Transport Agency (NZTA).

Legislation associated with this service

- Local Government Act 2002
- Resource Management Act 1991
- Civil Defence and Emergency Management Act 2002
- Land Drainage Act 1908
- New Zealand Coastal Policy Statement
- · Regional Plan for Northland
- · Regional Water and Soil Plan for Northland, and
- Regional Coastal Plan for Northland.

Risks and Issues

Risk Event	Description
Do not meet LoS expectations due to lack of funding	Inadequate level of funding may result in a failure to deliver the agreed Level of Service and have potential adverse effects on the community, which may lead to environmental and public health damage, as well as significant legal and financial consequences.
Legislative non-compliance	Failure to comply with relevant legislative obligations/breach of legislation, caused by lack of awareness (changes in legislation not identified) lack of funding or lack of resources, resulting in unlawful action, environmental damage exposure to litigation risk, regulatory and/or government sanctions and reputational damage.
Failure to deliver on projects and programmes	Non-delivery on projects and/or programmes due to inadequate project or programme management, lack of resources/project planning or systems/ownership; change of leadership, cost escalation or unrealistic expectations, resulting in deferring of projects, possible community dissatisfaction, reduction in service levels and damage to Council's image and credibility.
Inadequate contract management (network maintenance and operations)	Inadequate contract management, caused by inadequate documentation/selection or availability of contractor/management of contractor, resulting in poor contractors' performance and outputs, interruption to services or reduction to service levels, health and environmental incidents, failure to meet legislative requirements, additional costs, and reputational damage.
Inadequate asset management	Inadequate asset management, caused by lack of asset management knowledge, practice and training, lack of staff knowledge and training, lack of resources, inadequate communication of issues and strategic planning, resulting in reduction in service levels, failure to meet LTP commitments, inability to cater for growth, financial consequences and reputational damage.

From Infrastructure Risk Register

How we fund this Group

- General rates
- · Targeted rates
- · Development contributions
- · Financial contributions
- · Borrowing, and
- Asset sales.

What we do

We manage five (5) community stormwater drainage schemes for Dargaville, Baylys, Te Kopuru, Kaiwaka and Mangawhai. The level of service for the schemes is to protect habitable floors from flooding by removing and discharging stormwater. The system collects contaminants in a way that protects our environment and public health; and responds promptly and reasonably to threats of flooding on habitable floors. We maintain the performance of the stormwater drainage systems to the expectations of the community.

Stormwater drainage systems in Whakapirau, Glinks Gully, Kelly's Bay, Pahi, Tinopai, Paparoa, Maungatūroto and Matakohe are mostly incorporated into our roads network. There are several open drain systems that exist throughout the district.

Contribution to Community Outcomes

- Climate smart: Catchment plans and resource consents are managed to mitigate the effects of Climate change.
- Vibrant communities: Stormwater is managed to support community and business activities.
- Healthy environment: Investment into Infrastructure to minimize environmental effects and run-off into our waterways.

What we will deliver

De	scription	When
•	Create hydrological models for stormwater networks in Mangawhai, Kaiwaka, Dargaville,	2021/2022
	Te Kopuru, Baylys, Maungatūroto and Paparoa where LoS or growth design questions	
	need answering	
•	Develop a standard for routine condition assessment of stopbank assets in the urban area	
	and begin this assessment	
•	Model infrastructure requirements in Dargaville for flood susceptible areas to allow LoS	
	under increasing rain intensity and river levels	
•	Create overland flow maps for the whole district. Required for reliable Stormwater	
	Catchment Management Plans (CMP), land use planning and renewals strategy.	
	Incorporate this into public maps system	
•	Complete the new CMP for Dargaville and Mangawhai	
•	Complete Closed Circuit Television (CCTV) condition assessments in Kaiwaka,	
	Maungatūroto, Paparoa, Te Kopuru and Baylys so asset conditions can be used in the	
	renewal's strategy	
•	Start restoration of Mangawhai stormwater ponds requiring upgrade to meet current	
	standards	

Description	When
Complete the CMP for Kaiwaka, Maungatūroto, Paparoa, Te Kopuru and Baylys	2022/2023
Continue developing overland flow maps for the whole district. Required for reliable	
Stormwater Catchment Management Plans (CMP), land use planning and renewals	
strategy. Incorporate this into public maps system	
Continue restoration of Mangawhai stormwater ponds requiring upgrade to meet current	
standards	
Continue collaborative monitoring projects with NRC	
Complete the condition assessment of the urban stopbanks	
Model infrastructure requirements in Mangawhai for flood susceptible areas to allow	
funding for LoS	
Complete CCTV condition assessments in Whakapirau, Tinopai, Pahi, (Glinks Gully,	
Kelly's Bay, Ruawai, Pouto and Matakohe as necessary) so asset conditions can be use	d
in the renewal's strategy	
Finalise the Stormwater Bylaw and/or Policy	
Continue restoration of Mangawhai stormwater ponds requiring upgrade to meet current	2023/2024
standards	
Complete the CMP for all remaining areas with stormwater infrastructure, not limited to	
Whakapirau, Tinopai, Pahi, (Glinks Gully, Kellys Bay, Ruawai, Pouto and Matakohe as	
necessary)	
Continue developing overland flow maps for the whole district. Required for reliable	
Stormwater Catchment Management Plans (CMP), land use planning and renewals	
strategy. Incorporate this into public maps system	
Continue collaborative monitoring projects with NRC	
Complete restoration of Mangawhai stormwater ponds requiring upgrade to meet current	t 2024/2031
standards	
Complete developing overland flow maps for the whole district. Required for reliable	
Stormwater Catchment Management Plans (CMP), land use planning and renewals	
strategy. Incorporate this into public maps system	
Re-run hydrological models for specific areas of the stormwater networks LoS or growth	
design questions need answering	

Performance Measures

What we measure	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
Network System adequacy	<u><</u> 10	<u><</u> 10	<u><</u> 10	<u><</u> 10
For each flooding event, using a maximum				
of 1:50 year (50-year ARI, Annual				
Exceedance Probability 2%), the number of				
habitable floors affected. (Expressed per				
1,000 properties connected to the district's				
stormwater system.)				
Response time	<2 hours for	<2 hours for	<2 hours for	<2 hours for
The median response time in an urgent	urgent events	urgent events	urgent events	urgent events
flooding event (defined as an event is				
where a habitable floor is reasonably at risk				
of being affected Priority 1 (P1), measured				
from the time that the Council (or				
subcontractor) receives notification to the				
time that service personnel reach the site.				
Customer satisfaction	<u><</u> 18	<u><</u> 18	<u><</u> 18	<u><</u> 18
The number of Customer Service Requests				
(CSR) received regarding single network				
issues (however reasonably defined) per				
year/1,000 properties. This includes all				
CSR that relate to stormwater infrastructure				
whether directed to the contractor or				
individual Council staff member.				
Discharge compliance	0	0	0	0
Abatement notices, infringement notices,				
enforcement orders, convictions.				
Positive Environmental Outcomes	As defined in	As defined in	As defined in	As defined in
Water sensitive design, green	the Stormwater	the Stormwater	the Stormwater	the Stormwater
infrastructure, low carbon design and	CMP or	CMP or	CMP or	CMP or
construction, resilient network	Emissions	Emissions	Emissions	Emissions
	Targets	Targets	Targets	Targets

Changes in Levels of Service

There will be no changes to the level of service - protect habitable floors only

Negative effects and issues

Identified significant negative effect/issue	Mitigation
Level of Service (LoS) versus Feasibility The construction and maintenance costs of infrastructure upgrades to meet LoS is beyond the means of the community to afford. Targeted rates for small communities do not enable good network management.	This will be managed through consultation with communities to determine the most practicable way forward, without negatively impacting on public health and the environment or creating risk to persons or property.
Contamination of Urban Watercourses Urban stormwater runoff has the potential to adversely impact the receiving environment stakeholders and users.	The engineering standard provides minimum standards for stormwater infrastructure. Updates will include best practice for Water Sensitive Design and treatment. Continue to improve understanding of coastal/estuarine outfalls and the effects on the environment and incorporate best practice into catchment management plans.
Contamination of Rural Watercourses Rural stormwater runoff is likely to have a different contaminant profile than that from the urban areas. Depending on land use rural runoff potentially has elevated levels of nitrogen and phosphates than urban stormwater, due to fertiliser usage and animal husbandry.	The engineering standard provides general guidance for the management of rural stormwater runoff. The section primarily relates to quantity control of runoff, although there is a recommendation that appropriate water quality treatment options be considered in conjunction with attenuation. The Engineering Standards will be updated to reflect best practice in Water Sensitive Design and treatment.
Climate Change Increasingly climate change effects, particularly increased intensity of rainfall events and sea level rise will challenge the resilience and capacity of the network.	Investigation of potential negative effects and solutions that relate to the district. Increased focus on Water Sensitive Design and green infrastructure will play a big part in these solutions. Focus on flood protection devices in low-lying areas of Dargaville and Mangawhai is critical.
Flooding Direct Impact Urban catchments create a greater amount of impervious coverage (such as roads, roofs, and paved areas) than would be seen in the natural environment. Runoff is generated quicker from paved areas and can result in overland flow paths and localised flooding, which can damage property and increase the risk to life.	The Engineering Standards allow for protection of the receiving environment from potential erosion and flooding. The attenuation of runoff allows for flooding to be controlled locally, within the specific device. Online tools are being developed to enable better planning around problem areas such as overland flow paths.

Identified significant negative effect/issue	Mitigation
Network Resilience and Capacity not supported by a holistic design Historical focus on grey infrastructure has not gained the district the potential advantages of water sensitive design	In the long term, continuing this philosophy will negatively impact on the capacity for aquifers to recharge and the catchments to be resilient under increasing hydrologically challenging times. There is now a focus on green infrastructure and water sensitive design.
Stormwater Infiltration Studies of the stormwater network in Dargaville and Mangawhai have found stormwater leaking into the wastewater system	Ageing infrastructure, particularly in Dargaville, is due to long term under investment. Continue with renewal plans and condition investigations.
Infrastructure not maintained to the correct standard Base infrastructure maintenance and renewals has been under resourced leaving capacity and resilience issues. Green infrastructure devices have been poorly catalogued and maintained.	A robust maintenance schedule is being developed with the maintenance contractor and asset management improvements are set to allow clarity on ownership and therefore responsibility of the maintenance and renewals of those core and green infrastructure assets.
Future growth The spatial plans have identified the likely growth areas in Kaipara. Fast growth without good infrastructure planning has in some cases such as Mangawhai left deficit in funding and LoS provision.	Formal, reticulated stormwater systems and funding will be required in the future for small townships so LoS can be maintained with growth. Because five schemes have agreed targeted stormwater rates, funding for works beyond these schemes is currently very small and an overall funding model should be agreed on to engage community growth.
Public safety Public safety is at the forefront of network operations some assets however have an inherent risk	All risks to the public are elevated with urgency to the maintenance contractor and continual improvement is applied to the built environment. Generally Council policy is to not pipe open drains (and not allow private piping of open drains) unless there a strong evidence to for a positive safety gain.
Asset data Many aspects of the asset management system still require improvement.	Asset data management is a process of continual improvement and there are multiple improvement projects underway and planned. There are still many roading assets not represented in the Waters database though, and some assets have incorrect ownership tags. These will require asset cleansing surveys.

How are we considering Climate change?

Council's Climate Smart Community Outcome guides Stormwater activities. In planning these activities, Council has considered climate change projections for sea level rise, increased flooding and coastal inundation and erosion, and increased severity of storms and intensity of rainfall events, including increased intensity in short-duration rainfall events. We understand that Kaipara's changing climate poses a variety of risks to Council's stormwater activities. We understand that a lot of our stormwater assets are exposed and at risk. We also anticipate that discharge allowances will decrease, impacting levels of service and increasing the cost to provide expected services.

Stormwater assets play a vital role in enabling the built environment. We will continue to improve our understanding of risk by analysing regional hydrodynamic modelling and expanding our flow modelling and analysis where possible.

As we gather more information on climate-related risks, we will begin to explore possible adaptation responses. Where feasible, we will incorporate adaptation decisions into new projects and pursue sustainable, emissions-efficient designs and project management process.

Prospective Funding Impact Statements – Stormwater

Total applications of capital funding

Surplus (deficit) of capital funding

Funding Balance

For the year ended:	Annual Plan	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget
30 June	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-203
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
rospective Funding Impact Stater	nent										
ctivity selection: Stormwater Drainage, All, All											
perating funding											
ources of operating funding											
General rates, uniform annual general											
charges, rate penalties	294	385	409	433	438	444	473	516	633	748	
Targeted rates	1,685	1,764	1,902	2,026	2,023	1,904	2,179	2,285	2,524	2,910	3,
Subsidies and grants for operating purposes	0	0	0	0	0	0	0	0	0	0	
Fees and charges	0	0	0	0	0	0	0	0	0	0	
Internal charges and overheads recovered	0	0	0	0	0	0	0	0	0	0	
Interest and dividends from investments	0	0	0	0	0	0	0	0	0	0	
Local authorities fuel tax, fines, infringe-											
ment fees and other receipts	0	0	0	0	0	0	0	0	0	0	
Total operating funding	1,980	2,149	2,312	2,460	2,462	2,348	2,652	2,801	3,156	3,658	3,
pplication of operating funding											
Payments to staff and suppliers	703	590	634	669	669	536	554	568	586	605	6
Finance costs	146	155	192	193	139	146	213	234	319	412	
Internal charges and overheads recovered	360	450	479	533	540	496	530	548	581	628	
Other operating funding applications	0	0	0	0	0	0	0	0	0	0	
Total applications of operating funding	1,209	1,195	1,306	1,395	1,348	1,177	1,296	1,349	1,487	1,645	1,
urplus (deficit) of operating funding	771	954	1,006	1,065	1,113	1,171	1,355	1,451	1,670	2,013	2,
				1,003	1,113	_,_,_	1,333	1,731	1,070	2,013	-,
	Annual										
For the year ended:	Plan	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget	Budget
	Plan 2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
For the year ended: 30 June	Plan 2020-2021 \$'000										
For the year ended: 30 June Prospective Funding Impact Statem	Plan 2020-2021 \$'000	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
For the year ended: 30 June rospective Funding Impact Statem	Plan 2020-2021 \$'000	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
For the year ended: 30 June Prospective Funding Impact Statem tivity selection: Stormwater Drainage, All, All	Plan 2020-2021 \$'000	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All capital funding	Plan 2020-2021 \$'000	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All Capital funding ources of capital funding	Plan 2020-2021 \$'000	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026 \$'000	2026-2027 \$'000	2027-2028	2028-2029	2029-2030	2030-2031 \$'000
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All Capital funding Durces of capital funding	Plan 2020-2021 \$'000	2021-2022 \$'000	2022-2023 \$'000	2023-2024 \$'000	2024-2025 \$'000	2025-2026	2026-2027	2027-2028 : \$'000	\$'000	2029-2030 \$'000	2030-2031
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All Capital funding ources of capital funding Subsidies and grants for capital expenditure	Plan 2020-2021 \$'000 nent	2021-2022 \$'000	2022-2023 \$'000	2023-2024 \$'000	2024-2025 \$'000	2025-2026 \$'000	2026-2027 \$'000	2027-2028 \$'000	\$'000 0	2029-2030 \$'000	2030-2031 \$'000
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All Capital funding ources of capital funding Subsidies and grants for capital expenditure Development and financial contributions	Plan 2020-2021 \$'000 nent	2021-2022 \$'000 0 98	2022-2023 \$'0000 0 140	2023-2024 \$'000 0 144	2024-2025 \$'000 0 127	2025-2026 \$'000 0 128	0 123	2027-2028 \$'000 0 120	2028-2029 \$'000 0 120	0 108	2030-2031 \$'0000
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All capital funding subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt Gross proceeds from sale of assets	Plan 2020-2021 5'000 nent	2021-2022 \$'000 0 98 631	2022-2023 \$'000 0 140 611	2023-2024 \$'000 0 144 -374	2024-2025 \$'000 0 127 -23	2025-2026 \$'000 0 128 2,733	2026-2027 \$'000 0 123 690	2027-2028 \$'000 0 120 2,626	0 120 4,192	2029-2030 \$'000 0 108 478	0 111 -860
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All capital funding purces of capital funding Subsidies and grants for capital expenditure Development and financial contributions Increase (decrease) in debt	Plan 2020-2021 \$'000 seent 0 7 -5 0	2021-2022 \$'000 0 98 631 0	2022-2023 \$'000 0 140 611 0	2023-2024 \$'000 0 144 -374 0	2024-2025 \$'000 0 127 -23 0	2025-2026 \$'000 0 128 2,733 0	0 123 690 0	2027-2028 \$'000 0 120 2,626 0	0 120 4,192 0	2029-2030 \$'0000 0 108 478 0	0 111 -860 0
For the year ended: 30 June Prospective Funding Impact Statem ctivity selection: Stormwater Drainage, All, All capital funding conces 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	Plan 2020-2021 \$'000 eent	0 98 631 0	0 140 611 0 0	2023-2024 \$'000 0 144 -374 0	2024-2025 \$'0000 0 127 -23 0	2025-2026 \$'0000 0 128 2,733 0	0 123 690 0	2027-2028 \$'000 0 120 2,626 0	0 120 4,192 0	2029-2030 \$'000 0 108 478 0	0 111 -860 0
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835

-1,065

1,757

-1,006

772

-771

1,683

-954

0

1,218

-1,113

4,032

-1,171

5,982

-1,670

4,198

-1,451

2,169

-1,355

2,599

-2,013

1,369

-2,118