

Activity 14.0: Stormwater Drainage

Accountable Manager: John Mackie

What services are provided?

➤ Provide and maintain the stormwater drainage system (surface water management systems, e.g. *streams, rivers, Utility Waterways*, basins, pumps, structures, pipes, etc.)

Why do we provide these services?

To protect the community from surface flooding from normal/average water flows and enhance the waterway environment through naturalisation and protection of water quality, which provides key linkages for walking and cycling connections to open spaces, and provides access for recreational opportunities. This activity is intrinsically linked to the Flood Protection and Control Works activity.

What outcomes are we trying to achieve?	How do the services contribute to desired outcomes?
<ul style="list-style-type: none"> Water quality in rivers, streams, lakes and wetlands is improved 	<p><i>Looking after natural waterways and providing a well-maintained stormwater drainage system helps to protect water quality, safeguarding public health and the health of ecosystems</i></p>
<p>Existing ecosystems and indigenous biodiversity are protected</p>	<p><i>As a significant part of the network of green space throughout the district, the management of waterways protects existing ecosystems, indigenous vegetation and wildlife</i></p>
<p>A range of indigenous habitats and species is enhanced</p>	<p><i>As a significant part of the network of green space throughout the district, waterways provide opportunities for enhancing indigenous species</i></p>
<p>Injuries and risks to public health are minimised</p>	<p><i>Maintaining water quality in natural waterways protects the quality of drinking water drawn from surface water supplies and safeguards the health of recreational users</i> <i>Maintaining the stormwater drainage system reduces the risk of toxic substances from entering waterways.</i></p>
<ul style="list-style-type: none"> Risks from natural hazards, including earthquakes, flooding, tsunami and rock fall are minimised 	<p><i>Maintaining a safe and reliable stormwater drainage system reduces the risk of flooding</i></p>
<p>Sites and places of significance to tangata whenua are protected</p>	<p><i>Managing the stormwater system to reduce pollutants and enhance the waterway environment contributes to protecting the surface water values of tangata whenua</i></p>

Which group or section of the community will benefit from this activity?:

Christchurch residents, ratepayers, visitors to Christchurch, commercial and industrial businesses, property owners adjacent to waterways, recreational users, local iwi, environmental societies, NZTA, developers, regulatory authorities

Key legislation and Council Strategies:

Resource Management Act 1991; Local Government Act 1974 & 2002; Building Act 1991; Christchurch District Drainage Act 1951, and Land Drainage Act 1908; Waterways and Wetlands Natural Asset Management Strategy, 1999; Surface Water Strategy 2009, Water Related Services By-Law 2008 ; Public Open Space Strategy; Biodiversity Strategy; Land and Water Regional Plan.

Customer

What business results must we deliver to our customers, to deliver on the outcomes?

Performance Standards for LTP

Performance Standards for LTP	Current performance	Benchmarks	Recommended LOS	Rationale	LTP Committee Direction
Provide and maintain the stormwater drainage system					
14.0.1 (was 6.5.9) Response times to Drainage faults and Surface Water Management Issues	2012/13 per draft AP Emergency Works: Urban 2 hours Rural 6 hours Urgent Works: Urban 24 hours, Rural 24 hours Priority Call Outs: Urban 3 working days Rural 5 working days Routine Call Outs: Urban 5 working days Rural 10 working days	<u>Manukau CC</u> Annual Report: 100% urgent requests responded to within 24 hrs; 100% non-urgent requests responded to with 3 working days <u>Northshore CC</u> Annual Plan: 96% urgent works responded to within 1 hr; 97% non-urgent works responded to within 3 working days	Achieve 100% contract compliance re response times specified in the Waterways and Land Drainage Maintenance contract: 14.0.1.1 Emergency Works: Urban 2 hours; Rural 6 hours 14.0.1.2 Urgent Works: Urban 24 hours; Rural 24 hours 14.0.1.3 Priority Call Outs: Urban 3 working days; Rural 5 working days 14.0.1.4 Routine Call Outs: Urban 5 working days; Rural 10 working days	Response times specified in the Waterways and Land Drainage Maintenance contract.	<i>Accepted</i>

Customer

What business results must we deliver to our customers, to deliver on the outcomes?

Performance Standards for LTP

Performance Standards for LTP	Current performance	Benchmarks	Recommended LOS	Rationale	LTP Committee Direction
Provide and maintain the stormwater drainage system (cont'd)					
14.0.2 (was 6.5.5) Resource consent compliance	2012/13 per draft AP No major or persistent breaches of Resource Consent conditions regarding the management of waterways and land drainage system per year, resulting in court action by Ecan.	CCC actuals: 09/10 – Nil 10/11 – Nil 11/12 – Nil No infringement notices served on Auckland water authorities by respective Regional authorities – Auckland Water Industry Report	No major or persistent breaches of Resource Consent conditions regarding the management of waterways and the land drainage system per year, resulting in court action by Ecan.	Measuring, managing and reporting compliance with resource consents for stormwater discharge and treatment facilities. (3 Abatement Notices were issued against the Council in 07/08) Will eventually be incorporated in the stormwater management plan resource that will be set up to manage the future consenting process.	<i>Accepted</i>
14.0.3 (was 6.5.2) Customer satisfaction with the maintenance of waterways and their margins	2012/13 per draft AP ≥ 66%	CCC actuals: 09/10 – 72% 10/11 – N/A 11/12 – 60% Auckland Council: Percentage of residents satisfied with stormwater management ≥ 50%	≥ 66%	To monitor satisfaction with the appropriateness of maintenance standards and levels of service provided. To ensure the best fit between Council's allocation of resources and customer expectations.	<i>Accepted</i>

Customer

What business results must we deliver to our customers, to deliver on the outcomes?

Non-LTP Performance Standards

Non-LTP Performance Standards	Current performance	Bench-marks	Recommended LOS	Rationale	LTP Committee Direction
Provide and maintain the stormwater drainage system (cont'd)					
14.0.4 (was 6.5.10) Global Consent and Stormwater Management Plans implemented and functioning:	2012/13 per draft AP Global Consent implemented and functioning: 6.5.10.1 <i>Stormwater discharge consents are issued in accordance with the conditions of the Interim Global Stormwater Consent, and of the Integrated Catchment Management Plan.</i> 6.5.10.2 <i>Maintenance and Monitoring inspections are carried out in accordance with the conditions of the consent.</i> 6.5.10.3 <i>Site Audits are undertaken on sites where WQL3 activities occur.</i> 6.5.10.4 <i>Reports to Ecan by 30 June each year with the required information.</i>	No relevant bench-mark available	Global Consent and Stormwater Management Plans are implemented and functioning: 14.0.4.1 Stormwater discharge consents are issued in accordance with the conditions of the Interim Global Stormwater Consent, and the Stormwater Management Plan Consents – No major breaches resulting in court action; 14.0.4.2 Maintenance and Monitoring inspections are carried out in accordance with the conditions of the consents; reports submitted in accordance with the Conditions of the Consent – No major breaches resulting in court action; 14.0.4.3 Site Audits are undertaken and reports submitted in accordance with the Conditions of the Consent – No major breaches resulting in court action; 14.0.4.4 Reports to Ecan by 30 June each year with the required information.	The Interim Global Consent will be replaced and superseded incrementally as Stormwater Management Consents are obtained. Achieving the Recommended LOS will show compliance with the Consent Conditions.	<i>Accepted</i>

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Non-LTP Performance Standards

Non-LTP Performance Standards	Current performance	Benchmarks	Recommended LOS	Rationale	LTP Committee Direction
Provide and maintain the stormwater drainage system (cont'd)					
14.0.5 (was 6.5.8) Waterways and Land Drainage contract managed to ensure contractor performance to requirements.	2012/13 per draft AP At least 90% maintenance works comply with contract specifications (NB: old contract format)	CCC internal standard / benchmark (Road Maintenance, Urban Parks)	The contract is managed in accordance with the contract management plan's performance criteria.	Managing compliance with the Waterways and Land Drainage contract requirements will ensure Stormwater Drainage maintenance activities are programmed and completed in accordance with the contract. Contract management, training and quality assurance processes have been reviewed to ensure contracts outcomes are achieved. The Contract Management Plan's performance criteria includes that the contractor shall provide a safe, reliable, cost effective and ecologically sustainable stormwater system that is integrated with other infrastructure and land use planning, safeguards public health, reduces the risk of flooding, provides for current and future needs, and complies with resource consent conditions.	<i>Accepted</i>
14.0.6 (was 6.5.4) Diversion of aquatic weed from landfill	2012/13 per draft AP At least 80% diverted from landfill.		At least 80% diverted from landfill.	Measuring and managing the diversion of green-waste from landfill to support Council's Sustainability Policy. This is from the mechanical harvesting of the aquatic weed from the rivers.	<i>Accepted</i>
14.0.7 (was 6.5.3) Cost of maintaining the stormwater drainage system	2012/13 per draft AP \$59.50/ property (To be confirmed) NB: is for combined Waterways and Land Drainage Activity (Stormwater Drainage portion \$55.18)	CCC actuals: 09/10 - \$45.45 10/11 - \$40.75 11/12 - \$52.76 NB: recalculated from combined Waterways and Land Drainage Activity	At a cost per property not exceeding budgeted controllable costs / the number of properties expected by year end: \$59.47 / property	Measuring and managing the cost of land drainage system and waterways within Christchurch. Each year's \$ LOS will be calculated once each Annual Plan is adopted by Council.	<i>Accepted</i>

Stormwater Drainage 14.0. Final version for TYP 2013-16.

Customer

What business results must we deliver to our customers, to deliver on the outcomes?

Non-LTP Performance Standards

Non-LTP Performance Standards	Current performance	Benchmarks	Recommended LOS	Rationale	LTP Committee Direction
Provide and maintain the stormwater drainage system (cont'd)					
14.0.8 (was 6.5.6) Surface water quality monitoring	2012/13 per draft AP 6.5.6.1 All sites identified by the Interim Global Stormwater Consent Monitoring Plan are monitored and reported on; currently 41 sites. Sites and parameters to be altered as required for Integrated Catchment Management Plan consents. 6.5.6.2 Implement a Water Quality Improvement programme in accordance with the Surface Water Management Strategy (target confirmation required)	Natural Resources Regional Plan requirements	14.0.8.1 Implement a Water Quality Improvement programme in accordance with the Surface Water Management Strategy. 14.0.8.2 Continue to Monitor in accordance with the submitted Monitoring Plan as required by the Interim Global Consent and the Stormwater Management Plans.	Measuring and managing water quality in waterways and drainage systems and monitoring the effects on receiving environments. Monitoring is carried out as a required by the RMA and the Christchurch District Drainage Act and is complimentary to monitoring undertaken by Ecan.	<i>Accepted</i>
14.0.9 (was 6.5.7) Environmental indicator monitoring	2012/13 per draft AP Implement environmental monitoring programme along waterways	NRRP ecological health indicators for Canterbury rivers.	Continue to Monitor in accordance with the submitted Monitoring Plan as required by the Interim Global Consent and the Stormwater Management Plan Consents.	Measuring and managing the Councils commitment to aquatic environmental conservation through monitoring key indicator sites. Christchurch River Environment Assessment System (CREAS) Surveys, aquatic invertebrates and fish are monitored on a 5 year rotation of the main catchments : Avon, Heathcote Halswell, Styx and Otukaikino	<i>Accepted</i>