

Christchurch West Melton Work Programme - End of Year Progress Report 2016/17						
Ref	Outcome	Outcome description	Milestone reference	Milestones to achieve outcomes	Milestone status	Progress update for each milestone - as at 30 June 2017
1	Improved stormwater management	Stormwater is treated to a better standard at source and the public's stormwater network's ability to treat stormwater has improved.	MS1	Zone Committee to agree, by November 2016, how to support and add value to the Christchurch City Council Draft Integrated Water Strategy. Next steps/actions agreed and implemented by April 2017.	On Schedule	• Erosion and sediment guidelines have been developed.
			MS2	Zone Committee to agree, by November 2016, how to support and add value to the Christchurch City Council's seven Stormwater Management Plans. Next steps/actions agreed and implemented by April 2017.	On Schedule	• A stormwater management protocol has been agreed with Christchurch City Council.
			MS3	Zone Committee to agree, by November 2016, how to support and add value to the Christchurch City Council's comprehensive stormwater consent. Next steps/actions agreed and implemented by April 2017.	On Schedule	• Christchurch City Council global consents are now audited and are compliant.
2	Community commitment has increased	Christchurch-West Melton public/community understanding of the stormwater cycle has improved. Public/community understanding of what residents and businesses can do to reduce pollution of stormwater has increased and desired behaviours are increasing.	MS4	A stocktake of relevant existing information about community understanding is conducted by April 2017.	On Schedule	• Previous social science research undertaken by Environment Canterbury and Christchurch City Council as part of the Improving Urban Waterway Health Programme was compiled to form a stocktake of relevant existing information about community understanding of water quality, waterways and stormwater.
			MS5	Zone Committee to sign off on data/methodology to understand how community currently understand their stormwater footprint by June 2017.	Completed	• The other 'community commitment' milestones were put on hold because Christchurch City Council, the Zone Committee, Environment Canterbury and community groups are developing a proposal for resourcing a Waterways Partnership that will be focused on improving public/community understanding of the stormwater cycle and what residents and businesses can do to reduce pollution of stormwater, with the aim of increasing desired behaviours.
			MS6	Communications strategy to increase commitment developed by April 2018 for implementation.	On Schedule	• See Milestone 5.
			MS7	Zone Committee to sign off on a communications strategy by June 2018 for implementation.	On Schedule	• See Milestone 5.
			MS8	Zone Committee to agree, by March 2017, how to manage and communicate catchment-specific public/community expectations of water quality. Next steps/actions agreed and implemented by September 2017.	On Schedule	• See Milestone 5.
			MS9	Zone Committee to agree, by April 2018, which behaviours of residents and businesses should be promoted that can reduce contaminants from roads, buildings and private properties.	On Schedule	• See Milestone 5.
			MS10	Zone Committee to identify the barriers and benefits associated with the selected behaviour(s) and design a strategy that utilises behaviour-change tools to address these barriers and benefits by April 2018.	On Schedule	• See Milestone 5.
			MS11	Zone Committee to pilot the strategy with a small segment of a community by October 2018, with a view to implementing the strategy broadly.	On Schedule	• See Milestone 5.
			MS12	Provide ongoing support to key community groups with an interest in improving community understanding of stormwater.	On Schedule	• The Avon-Heathcote Estuary Ihutai Trust, Avon Ōtākaro Network, Cashmere Stream Care Group and Ōpāwaho Heathcote River Network have been supported to increase community commitment in their catchments and undertake a range of relevant projects. This support has involved: responding to their requests; providing funding and resources; providing them with information; involving them; and providing opportunities for projects. Environment Canterbury and Christchurch City Council also provided additional funding to Avon-Heathcote Estuary Ihutai Trust to prepare an ecological management plan.
3	Biodiversity has improved	Community committed to improving biodiversity and projects are protecting and enhancing biodiversity.	MS13	Zone Committee to confirm/decide on which two significant wetlands are identified for management plans by June 2017.	On Schedule	• Two significant wetlands - make recommendations on each in list. • Once Zone Committee has identified the two wetlands, find out whether they already have management plans written for them. If so, then outcome achieved.
			MS14	A comprehensive programme agreed and endorsed by the Zone Committee by April 2018 to increase the awareness and understanding of biodiversity in both an urban and rural environment, including the promotion of completed Immediate Steps projects and outcomes.	On Schedule	• Currently working with Christchurch City Council, Selwyn District Council and the Banks Peninsula Conservation Trust on a concept plan for planting native vegetation in the area affected by the Port Hills fire to help prevent soil erosion and sediment from impacting on the Cashmere Stream and Ōpāwaho/Heathcote River catchments. The Banks Peninsula Conservation Trust is looking at how this area can be incorporated into one of its long-term goals: "Four core indigenous forest areas of more than 1000ha each have been protected".
			MS15	The creation of a multi-organisational working group by November 2016 to maximise biodiversity protection and enhancement.	On Schedule	• Biodiversity Officer has links with biodiversity-related groups within the zone and meets regularly with them.
			MS16	Zone Committee to agree, by June 2017, ways to increase the level of biodiversity enhancement and protection within identified priority areas.	On Schedule	• Zone Committee has decided to prioritise revegetation of the area affected by the Port Hills fire and work is currently underway to develop a concept plan in conjunction with Christchurch City Council, Selwyn District Council and the Banks Peninsula Conservation Trust.
			MS17	Zone Committee to evaluate options and support available for the protection and enhancement of spring heads by June 2019.	On Schedule	• Zone Committee is to be presented with current state of spring heads. • Zone Committee is to be presented with options for protecting spring heads, e.g. allocate 50% of Immediate Steps funding each year for two years to focus on spring heads.
			MS18	Establish a mosaic of areas as a 'dryland park' to enhance dryland biodiversity in the zone and contribute to enhanced security of the Christchurch water supply, by June 2019.	On Schedule	• Applications for biodiversity protection projects in the dry grasslands area continue to be accepted. • It is suggested that Zone Committee allocates 25% of Immediate Steps funding per year for three years so that a strategic approach can be taken. • Project proposals within the drylands area are being developed. • A Steering Group is being developed to guide management/project decisions in the dry grasslands area.
4	Health of priority catchments has improved	Water quality and biodiversity trends are improving in the following priority sub-catchments: Addington Brook and Riccarton Stream (Ōtākaro/Avon catchment), Cashmere Stream/Haytons Stream (Ōpāwaho/Heathcote catchment).	MS19	Zone Committee to make recommendations, by November 2017, for changes to the Environment Canterbury Erosion and Sediment Control Guidelines, and the education, compliance, consenting to support these guidelines.	Completed	• The Environment Canterbury Erosion and Sediment Control Guidelines have been re-written, updated and provided on a website in a user friendly way.
			MS20	Summary of projects and work programmes being undertaken in the Cashmere catchment by the Zone Committee, Cashmere Stream Care Group, Christchurch City Council, Environment Canterbury and other organisations is provided to the Zone Committee by March 2017.	On Schedule	• Environment Canterbury and Christchurch City Council are funding the development of an online soil erosion prediction model for Banks Peninsula and Port Hills soils. This is being undertaken by University of Canterbury.
			MS21	Report on the results of the Erosion and Sediment Control field trial project is provided to the Zone Committee by October 2017, and next steps/actions agreed by December 2017.	Completed	• The Erosion and Sediment Control Field Trial Project was completed, results shared with industry and agencies and the findings included in the new Erosion and Sediment Control Guidelines.
			MS22	Report on the results of the Total Suspended Solids-Clarity-Turbidity Relationship project is provided to the Zone Committee by October 2017, and next steps/actions agreed by December 2017.	On Schedule	• Water sampling for the Cashmere catchment based project about clarity, total suspended solids and turbidity continued. This project is to be completed by late 2017.
			MS23	Report on the progress of the Restoration of Cashmere Stream headwaters - upstream of Sutherlands Road project by September 2016, and next steps/actions agreed by March 2017.	On Schedule	• Cashmere Stream Care Group has been provided with funding and support to undertake stream restoration projects.
			MS24	Zone Committee to sign off on a five-year 'living' catchment plan for Addington Brook by June 2017.	Behind Schedule	• Support Zone Committee Urban Contaminants Working Group Addington Brook Project - Building relationships with potential key partners in programme: Christchurch City Council, Ngāi Tahu, local rūnanga, community groups, local businesses - Due to complexity of project, revising original time scales - underway - Analysis of additional catchment monitoring: autosamplers and instream sampling programme - Targeted campaign with businesses feeding into the O'Shannessy Place sampling point to locate and reduce point sources in January-March 2017 - Production of groundwater profile within Addington catchment and investigation into any relationship pathway for contaminants such as nitrates from groundwater to surface water - Desk-based investigation into potential leaching of sites from contaminated land to the Brook.
			MS25	A contaminant reduction pilot is established in the Addington Brook by December 2016, feeding into Milestone 24.	Behind Schedule	• Partnership with Ara - 2016 final-year degree student undertook research project investigating zinc roof runoff and planter boxes to treat this - 2017 taking forward this work and running laboratory trials on infiltration rates and contact time, and analysing treated solutions.
			MS26	Draft for Zone Committee sign-off, five-year 'living' catchment plan (incorporating learning/best practice from Addington Brook) for Riccarton and Haytons Streams by June 2018.	On Schedule	• Paeroa Reserve Project - Supporting the Urban Contaminants Zone Committee with community relationships in priority catchment - Undertaking working bees with community groups to maintain planting from Paeroa Reserve improvement project, further fill in planting late August 2017 - 2017/18 instream additional sampling regime to better understand catchment water quality and target resources - Draft for Zone Committee sign-off, five-year 'living' catchment plan (incorporating learning/best practice from Addington Brook) for Haytons Stream by June 2018 - Develop 'living' integrated management catchment plan (ICMP) over 2017/18.
			MS27	As part of the 'living' catchment plans, a programme is developed to increase school and industry involvement in priority catchments by June 2017.	On Schedule	• Steps in Haytons ICMP development - Support Cashmere Stream Care Group - lead/assist a community engagement programme; as part of the 'living' catchment plans, a programme is developed to increase industry involvement in Haytons catchment by June 2017 • Steps in Haytons ICMP implementation - A presentation for key industry players in the catchment is created to begin gaining support for the issue. Identify interested educational institutes and schools. They are involved in urban stream projects to help to generate social pressure to manage stormwater better - Investigating stormwater filtering devices applied to Haytons, to identify which devices are best for implementation - Stormwater treatment devices installed in Haytons catchment - Stormwater treatment devices guide launched, with support from key businesses in catchment - Identify key industry in catchment - Presentation is delivered to industry key players in Haytons.
			MS28	Provide ongoing support to key community groups with an interest in catchment health in priority catchments.	On Schedule	• Currently working and supporting: - Cashmere Stream Care Group - Ōpāwaho Heathcote River Network - Avon-Heathcote Estuary Ihutai Trust - Cashmere Working Group of the Zone Committee.
5	Groundwater has been safeguarded for multiple uses and water has been used efficiently	The quality of untreated drinking water from aquifers is safeguarded. Water levels, quality and flows at spring heads of spring-fed waterways are safeguarded. Use of water both rural and urban areas is targeted and efficient.	MS29	An annual report is provided to the Zone Committee in April for all high-risk compliance activities, including monitoring groundwater protection zones, gravel extraction and hard fill consents. Next steps and actions agreed.	On Schedule	• An annual compliance report is provided to the Zone Committee in April for all high-risk compliance activities, including monitoring groundwater protection zones, gravel extraction and hard fill consents. Next steps and actions agreed.
			MS30	An annual report is provided to the Zone Committee around water levels, quality and flows at spring heads of spring-fed waterways, in July. Next Steps and actions agreed	On Schedule	• Work with Isaacs Construction at the spring head of the Otukakino River, to undertake pollution prevention work to protect ground water and the spring head. • An annual report is provided to the Zone Committee around water levels, quality and flows at spring heads of spring-fed waterways.
			MS31	A stocktake of existing information about groundwater is conducted by June 2017 so that the dynamics of the Christchurch drinking water recharge system are well understood.	On Schedule	• A stocktake of existing information about groundwater is conducted so that the dynamics of the Christchurch drinking water recharge system are well understood. • Pre-planning for groundwater protection zone field trip has been undertaken.
			MS32	Identify appropriate policies and practices to provide long-term protection of this drinking water by 2018. Implement these policies and practices by November 2018.	On Schedule	• Field trip to groundwater protection zone has been made. • Identify appropriate policies and practices to provide long-term protection of this drinking water and implement these policies and practices.
			MS33	Zone Committee to agree the preferred way to communicate how to use water more efficiently within an urban environment by June 2017. Next steps/actions agreed by December 2017.	On Schedule	• The Zone Committee has agreed on the preferred way to communicate about how to use water more efficiently within an urban environment and is looking at the next steps/actions that are to be agreed on by December 2017.
6	Waterways better provide for multiple recreation, relaxation and amenity uses	Aquatic and adjacent land recreational values in selected locations are maintained and/or improved.	MS34	Zone Committee to confirm Kerrs Reach, Ōtukaikino, Te Papa Ōtākaro/Avon River Precinct and Ōpāwaho/Heathcote River as priority locations to maintain and/or to improve recreational, relaxation and amenity uses. Community conversations with key community groups and stakeholders are conducted in these locations to better understand the issues and views by June 2017.	On Schedule	• A workshop was organised and held with recreational stakeholders in the lower Ōtākaro/Avon River to find out what they found challenging about recreating there, and potential solutions. From that, a strategy was prepared based on the challenges and solutions. This prioritised seven key actions focused on flag iris, large floating debris, snap send solve, reducing weed growth, a dual cycle/walkway, public toilets and Canada geese. Most of these actions are the responsibility of Christchurch City Council, and the Zone Committee has asked the Council to provide a report by 1 June 2017 outlining what is required to achieve these actions, including annual and long-term planning and budgeting requirements. After that, the focus will become implementation.
			MS35	Zone Committee to agree, by June 2018, strategies to improve recreation, relaxation and amenity uses at the identified priority locations. Next steps/actions agreed by September 2018.	On Schedule	• Next steps/actions are to be agreed by September 2018. Actions/project(s)/strategies will improve recreation, relaxation and amenity uses in Kerrs Reach and lower Ōtākaro/Avon River agreed with Zone Committee.
			MS36	Annual report to Zone Committee on progress of implementation of strategies in June annually. Next steps and actions agreed September annually.	On Schedule	• Next steps and actions are agreed by September annually. • Annual Report on progress of implementation of strategies is provided to Zone Committee in June each year. Next steps/actions are agreed by September annually.
7	Relationships	Manage relationships.			On Schedule	• Environment Canterbury is continuing to develop good working relationships, contribute to and participate with other agencies and build opportunities to increase access to information.
8	One-off projects	One-off projects, responses to community issues arising from work within the zone.			On Schedule	• Environment Canterbury is continuing to work on one-off projects such as: - Supporting the Lower Avon Recreation Stakeholders meetings - Working to create a spreadsheet of all the community groups working in the water space and identifying staff who have working relationships with them - Interpretation panels along Te Papa Ōtākaro/Avon River Precinct about the EOS Ecology works, with design input from youth - Pollution Prevention Strategy - develop, deliver, communicate about and implement this strategy - Internal capability building - ensure efficient use of Pollution Prevention Officer's experience and knowledge - Pollution prevention visits - follow up from original pollution prevention visits (undertaken in conjunction with Hazardous Substances and New Organisms visits in September 2015) - Respond to new priorities arising as identified by community, relating to other consented activities - Industrial pollution prevention and permitted activity compliance - Support Golders Associates and University of Canterbury to carry out a project that addresses a sediment input to Okeover Stream - External capability building - pollution prevention and urban contaminants improvement projects by Christchurch City Council - External advice - pollution prevention and stormwater - Supporting Zone Committee - administration - Estuary Fest - attendance at Estuary Fest - Summer in the Styx - attendance at event.