

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE AGENDA

THURSDAY 1 NOVEMBER 2012

AT 9AM

IN COMMITTEE ROOM 1, SECOND FLOOR, CIVIC OFFICES, 53 HEREFORD STREET

Committee: Councillor Claudia Reid (Chair)
Councillors Sally Buck, Jimmy Chen, Barry Corbett, Aaron Keown, and Sue Wells.

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- PART A - MATTERS REQUIRING A COUNCIL DECISION
- PART B - REPORTS FOR INFORMATION
- PART C - DELEGATED DECISIONS

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ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 1. 11. 2012**1. APOLOGIES**

Councillor Claudia Reid.

2. DEPUTATIONS BY APPOINTMENT

Nil.

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE – 1. 11. 2012

3. INFRASTRUCTURE REBUILD MONTHLY REPORT

General Manager responsible:	General Manager Capital Programme
Officer responsible:	Infrastructure Rebuild Client Manager
Author:	Will Doughty

PURPOSE OF REPORT

1. To provide the Environment and Infrastructure Committee with a monthly update on the infrastructure rebuild.

EXECUTIVE SUMMARY

2. At its April 2011 meeting, Council gave approval for an Alliance to be formed to deliver the reinstatement of the City's damaged infrastructure. It was also agreed that the Chief Executive would report regularly to the Council on progress with regard to the reinstatement work.
3. The report (**Attachment 1**) is the 12th of what will be a regular monthly report that is provided to the Environment and Infrastructure Committee, Council and the Canterbury Earthquake Recovery Authority (CERA).

STAFF RECOMMENDATION

It is recommended that the Committee recommends that the Council receive the Infrastructure Rebuild Monthly Report for October 2012.



New Zealand Government

**INFRASTRUCTURE REBUILD PROGRESS REPORT
OCTOBER 2012**

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1. INTRODUCTION

The purpose of this report is to provide Council, CERA and NZTA an update on the horizontal infrastructure rebuild. For this month, and going forward, progress on all horizontal infrastructure rebuild work is reported. This includes the work activity being delivered by SCIRT (section 4.1) and work being delivered under business as usual (BAU) mechanisms (section 4.2).

2. ACTIVITIES FOR THE MONTH

Operationally, SCIRT is showing a further increase in work done in September. The total claim for the month for earthquake related work was approximately \$35.2m of which \$20.2m relates to physical work in the field. This is a \$3m increase in work in the field compared to August.

Visits to the Community Boards have continued over the last three weeks, with great feedback from all, around the infrastructure rebuild in general and particularly around the operational level communications from SCIRT. There was also a community meeting regarding the traffic management proposed for the Bridge Street bridge rebuild that went very well and received good feedback from elected officials that attended. SCIRT are working through the forward work schedule to identify key locations where work may create impacts on localized community groups to enable them to be even more proactive in explaining what is being done, why and the planning behind it.

There has been considerable focus in October on updating the overall horizontal infrastructure rebuild estimate from September 2011 for both the work being delivered by SCIRT and the non SCIRT works. There is a greater understanding of the scope of the rebuild required a year further on. This updated estimate will be used to inform the long term plan and also the necessary appropriations from NZTA and CERA. At this stage it is anticipated that the updated estimate will be available in November.

Work is ongoing to address wider strategic issues that could have an impact on the delivery of the SCIRT programme. Close liaison has been established with the Porthills Geotech group, CCDU and CERA. Several briefings have already been held with SCIRT around strategic transport issues for the City relating to the Christchurch Transport Plan and Greater Christchurch Transport Statement. Another key strategic issue of the rebuild is the future of the red zone.

3. FINANCIALS

Below is a summary of the financials for the horizontal infrastructure rebuild. These have been separated into rebuild activities being carried out by SCIRT (including NZTA State Highway rebuild work) and Council infrastructure rebuild activities being undertaken through Council business as usual mechanisms.

This report includes a breakdown for the current financial year to date as per the agreed SCIRT annual target budget and the Council Annual Plan in section 3.1 and actual life to date costs against the overall infrastructure rebuild estimate (plus additional projects) in section 3.2. For the purpose of this report all indirect costs have been allocated based on portion of the programme estimate per activity.

The table below summarises the year to date and life to date of the horizontal infrastructure rebuild activities performed by SCIRT, rebuild activities performed by others and other CCC renewal projects performed by SCIRT.

FINANCE AS AT 30 SEPTEMBER 2012					
Activity	Year to date 2012/2013			Life to date	
	Budget	Actual	Estimate	Actual	
Rebuild activities performed by SCIRT	\$ 440,000,000	\$ 99,089,252	\$ 1,751,095,238		364,624,720
Rebuild activities performed by others	\$ 103,486,521	\$ 6,150,054	\$ 307,306,057		68,590,635
Other activities performed by SCIRT	\$ 47,786,904	\$ 9,897,268	\$ 47,786,904		20,507,326
GRAND TOTAL	\$ 591,273,425	\$ 115,136,574	\$ 2,106,188,199	\$	453,722,681

3.1 Annual Plan 2012/13 - Actual year to date cost against budget

The Council 2012/13 Annual Plan includes a budget for the infrastructure rebuild of \$543.5m. This relates to Council rebuild activities being delivered by both SCIRT and Council business as usual mechanisms. The SCIRT budget for the year also includes NZTA Highway rebuild budget of \$10.9m.

3.1.2 SCIRT actual year to date costs

The approved annual target budget for SCIRT is \$440m. This includes NZTA State Highway rebuild activities of \$10.9m. Table 1.1 below presents the actual costs for each activity for the year to date reported against the agreed annual target budget for SCIRT. These costs are up to end September 2012.

Table 1.1 Actual costs for year to date of rebuild works by SCIRT

FINANCE AS AT 30 SEPTEMBER 2012						
SCIRT						
Activity	Description	2012/13 SCIRT Target Budget	Actual Cost YTD	Forecast Total Spend This Year	Year End Variance	
Road Network	Roading	\$ 105,410,459	\$ 28,842,591	\$ 119,661,934	-\$ 14,251,475	
Wastewater Collection		\$ 272,979,266	\$ 59,956,095	\$ 266,012,597	\$ 6,966,669	
Water Supply	Water Supply	\$ 26,872,162	\$ 7,746,479	\$ 26,325,687	\$ 546,475	
Waterways & Land Drainage	Stormwater	\$ 23,824,220	\$ 1,879,862	\$ 23,378,280	\$ 445,940	
NZTA Highways		\$ 10,913,892	\$ 664,225	\$ 11,121,501	-\$ 207,609	
TOTAL SCIRT INFRASTRUCTURE REBUILD PROGRAMME		\$ 440,000,000	\$ 99,089,252	\$ 446,500,000	-\$ 6,500,000	

3.1.3 Non-SCIRT actual year to date costs

The balance of the annual plan budget for the infrastructure rebuild (\$103.5m) is being delivered by Council business as usual mechanisms. Table 1.2 below presents the actual costs for the year to date of the infrastructure rebuild performed by Council for each activity against the 2012/13 Annual Plan budget. These costs are up to the end of September 2012.

Table 1.2 Actual costs for year to date of non-SCIRT rebuild works

FINANCE AS AT 30 SEPTEMBER 2012						
Non SCIRT						
Activity	Description	Approved Budget	Actual Cost YTD	Year End Forecast	Year End Variance	
Road Network	Roading	\$ 31,367,190	\$ 401,607	\$ 8,300,043	23,067,147	
Wastewater Collection		-\$ 42,779,266	-\$ 12,466	-\$ 12,466	- 42,766,800	
Parks & Open Spaces	Greenspace	\$ 13,554,101	\$ 304,712	\$ 13,554,101	- 0	
Refuse Minimisation & Disposal	Solid Waste	\$ 5,105,263	\$ 1,344,878	\$ 5,105,263	- 0	
Wastewater Treatment & Disposal	WW Treatment Plant	\$ 29,020,147	\$ 1,802,077	\$ 29,020,147	0	
Water Supply	Water Supply	\$ 62,553,010	\$ 1,085,750	\$ 34,425,175	28,127,835	
Waterways & Land Drainage	Stormwater	\$ 4,666,077	\$ 1,194,464	\$ 7,773,464	- 3,107,387	
TOTAL NON-SCIRT INFRASTRUCTURE REBUILD PROGRAMME		\$ 103,486,521	\$ 6,121,022	\$ 98,165,727	\$ 5,320,794	

3.2 Overall Infrastructure Rebuild estimate - actual life to date costs against current infrastructure rebuild estimate.

The current estimate for the overall rebuild of the City's horizontal infrastructure is \$2.015 billion (including contingency and excluding escalation), plus \$18.163m project budget not included in the horizontal infrastructure cost estimate. In addition to the above there is an estimate of \$25m for NZTA State Highways rebuild. For the purpose of this monthly progress report the current overall estimate reported against is therefore \$2.058 billion.

It is anticipated that a revised programme estimate will be completed in Q4 of calendar year 2012 to help inform the long term planning process.

3.2.1 SCIRT actual life to date against estimate

Table 2.1 includes the overall life to date costs against the current estimate for the SCIRT performed rebuild of the City's infrastructure. SCIRT is performing \$1.7b of Council infrastructure rebuild, plus \$25m NZTA Highways rebuild.

Table 2.1 SCIRT Actual life to date costs against estimate

SCIRT									
Activity	Description	Current Estimate of				Forecast Total			
		Cost	Actual Cost 2010/11	Actual Cost 2011/12	Actual Cost 2012/13	Total Actual Cost	Spend	Programme Variance	
Road Network	Roading	\$ 814,857,143	\$ 11,812,105	\$ 71,944,425	\$ 28,842,591	\$ 112,599,121	\$ 814,857,143	\$ -	
Wastewater Collection		\$ 714,095,238	\$ 10,376,296	\$ 124,477,818	\$ 59,956,095	\$ 194,810,209	\$ 714,095,238	\$ -	
Water Supply	Water Supply	\$ 128,142,857	\$ 1,857,860	\$ 35,385,420	\$ 7,746,479	\$ 44,989,759	\$ 128,142,857	\$ -	
Waterways & Land Drainage	Stormwater	\$ 69,000,000	\$ 999,542	\$ 6,505,956	\$ 1,879,862	\$ 9,385,359	\$ 69,000,000	\$ -	
NZTA Highways Rebuild		\$ 25,000,000		\$ 2,176,046	\$ 664,225	\$ 2,840,271	\$ 25,000,000		
TOTAL		\$ 1,751,095,238	\$ 25,045,803	\$ 240,489,665	\$ 99,089,252	\$ 364,624,720	\$ 1,751,095,238	\$ -	

3.2.2 Non-SCIRT actual life to date against estimate

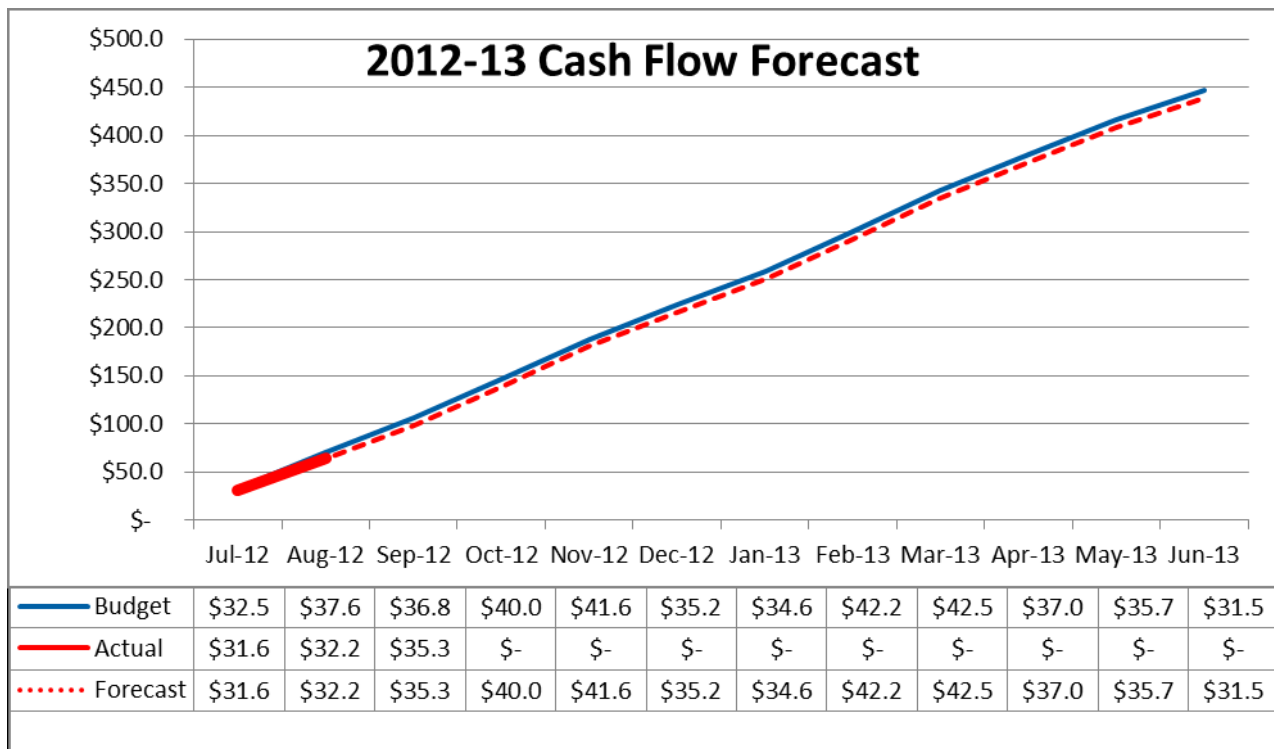
Table 2.2 includes the overall life to date costs against the current estimate for infrastructure rebuild activities being delivered by Council business as usual mechanisms. The table also includes three projects and their budgets, not included in the current cost estimate, totalling of \$18.163m.

Table 2.2 Non-SCIRT actual life to date costs against estimate

NON-SCIRT									
Activity	Description	Current Estimate of Cost	Actual Cost 2010/11	Actual Cost 2011/12	Actual Cost 2012/13	Total Actual Cost	Forecast Total Spend	Programme Variance	
Road Network	Roading	\$ 78,589,305	\$ 848,201	\$ 1,792,740	\$ 401,607	\$ 3,042,548	\$ 78,589,305	\$ -	
Wastewater Collection		\$ -	\$ 1,634,066	\$ 13,757,590	\$ 12,466	\$ 15,379,191	\$ -	\$ -	
Parks & Open Spaces	Greenspace	\$ 57,884,181	\$ 611,310	\$ 1,835,060	\$ 304,712	\$ 2,751,082	\$ 57,884,181	\$ -	
Refuse Minimisation & Disposal	Solid Waste	\$ 8,761,905	\$ 2,076,017	\$ 3,091,587	\$ 1,344,878	\$ 6,512,482	\$ 8,761,905	\$ -	
Wastewater Treatment & Disposal	WW Treatment Plant	\$ 96,356,381	\$ 4,488,038	\$ 13,249,043	\$ 1,802,077	\$ 19,539,158	\$ 96,356,381	\$ -	
Water Supply	Water Supply	\$ 24,095,238	\$ 4,266,124	\$ 830,545	\$ 1,085,750	\$ 6,182,419	\$ 24,095,238	\$ -	
Waterways & Land Drainage	Stormwater	\$ 41,619,048	\$ -	\$ 13,960,259	\$ 1,194,464	\$ 15,154,723	\$ 41,619,048	\$ -	
TOTAL		\$ 307,306,057	\$ 13,923,757	\$ 48,516,824	\$ 6,121,022	\$ 68,561,603	\$ 307,306,057	\$ -	

3.3 Forecast Expenditure

The graph below shows SCIRT programme cash flow forecast and actual expenditure, year to date.



4. PROGRAMME

4.1 SCIRT Work Activity

4.1.1 Achievement Report

The progress report for this month includes an achievement report which outlines progress made by the construction projects against key metrics for each asset type.

Due to the focus on the estimating process it has not been possible to provide the complete updated achievement report for September.

Asset Type	Asset Sub-Type	Unit	August	September	Life To Date
Storm Water Pump Stations	Pump Station	%	0	0	0
Storm Water Reticulation	Drainage	m	675	748	4100
Transport - Roading	Bridges	%	0.2	-	-
	Pavement	m ²	11,809	20,732	97,218
	Retaining Walls	m ²	59	287	580
Waste Water Pump Stations	Pump Station	%	97	0	886
Waste Water Reticulation	Reticulation	m	9,811	15,413	63,652
	Manhole/chamber	#	46	85	197
Water Supply Pump & Reservoir	Pump Station	%	142	-	-
	Reservoir	%	0	-	-
Water Supply Reticulation	Reticulation	m	1,505	555	18,663
	House connections	#	3	22	159

4.1.2 Number of Ongoing SCIRT Projects

The following table is a summary of the programme pipeline as at September 30th 2012. It shows how many projects and the total value at each stage of the project lifecycle.

Project Lifecycle Stage	August Estimate	September Estimate	August Estimated Construction Cost	September Estimated Construction Cost
Investigation (Asset Assessment)	53	30	\$44.2m	\$8.9m
Concept Design	76	101	\$703.9m	\$622.4m
Detailed Design	94	63	\$429.1m	\$414.3m
Construction	87	127	\$207.6m	\$356m
Handover	202	214	\$76.0m	\$81.9m
Grand Total	512	535	\$1,460.8m	\$1,483.5m

In the table above, the previous monthly report totals have also been included to show the change in activity.

4.1.3 Ongoing Projects by Ward

4.1.3.1 Introduction

The progress report this month includes a summary of all SCIRT projects that are currently either in detailed design or construction separated on a Ward basis. A separate table has been included specifically for projects either in detailed design or construction within the central city (within the four avenues). This has been created to assist in the coordination with the Central City Recovery Plan and vertical infrastructure rebuild going forward.

For projects in construction – estimated construction cost (Target Outturn Cost) has been included together with actual Life to Date Costs as at the end of September 2012.

4.1.3.2 Burwood / Pegasus

DETAILED DESIGN		
Reference	Project	Project Description
10415	PS 63 (PS)	New replacement PS63 at Beach Road. This project is linked to 10926 for the approximately 4Km long 700mm pressure main.
10620	Pages Rd Bridge	Repair to Pages Rd Bridge, including road network connecting to roundabout on North end of bridge.
10694	PS36 Renewal (WW)	New PS36 to replace existing PS36. New station capacity approximately 900 L/S. This project covers all design for the project and construction for above ground activities. A related project covers 2M of below ground construction works required.
10796	NZTA Anzac Bridge Repairs	Ground improvements, removal of landward bridge spans, demolish and rebuild abutments, repair piers, approaches and underpasses
10809	PS28 Catchment RD SW and WS Repairs	Design for repair (some full reconstruction) of minor to severe earthquake damage to carriageways, kerbs and channels, and footpaths with some associated stormwater and water supply works in streets situated in the area from Woodham Rd/Pages Rd north to Wainoni Rd/Breezes Rd. This work will follow construction of wastewater repairs/replacement.
10819	Keyes Road Catchment (RD,SW)	Repair and reinstatement of roads and underground services (excluding wastewater).
10840	PS37 Catchment RD SW WS	Linked to Project 10318 WW for the RD WS and SW elements
10861	New Brighton, South New Brighton & Southshore NE1, NE2 & NE3 Area Rebuild (WW)	Overall Catchment scope to link multiple projects and release projects on hold for a full one pass rebuild of the above area. Includes WW elements. Projects for construction to the value of \$15M are expected from this concept study.
10865	Catchment Study - Burwood Rebuild NE8 (WW)	Full One Pass rebuild of the Burwood Catchment Area - WW Element, estimated value of resulting projects in the region of \$15,000,000.
10900	New Brighton NE6&NE7 Catchment Rebuild (WW)	Full, one pass rebuild of the New Brighton Catchment Area (Waste Water Element)
10932	PS36 New Pressure Main (WW)	Construction of an additional Pressure Main from PS36 to provide resilience in the system.
10946	PS25 Replacement VS5001 (WW, PS)	Replacement of the existing wet well pump station that is fed by the existing gravity sewer network with a vacuum pump station that will be fed by the new vacuum sewer network.
10959	Aranui Catchment NE4 Vacuum Pump Station, Pages Road (WW)	Construction of a vacuum pump station to service the Aranui catchment including an above ground, architecturally designed pump station building, biological filter bed, shared generator building with PS36 and an access road. This pump station is located at the same site as PS36 and has some shared facilities.

DETAILED DESIGN		
Reference	Project	Project Description
10960	Aranui Catchment NE4 Vacuum Arm 1: Rowses Road Subcatchment (WW)	Construction of vacuum sewerage pipes, pits, and laterals (in road reserve only) and connecting up to the new vacuum pump station in Bexley Reserve.
10961	Aranui Catchment NE4 Vacuum Arm 2: Pages Rd West Subcatchment (WW)	Construction of vacuum sewerage pipes, pits, and laterals (in road reserve only) and connecting up to the new vacuum pump station in Bexley Reserve.
10962	Aranui Catchment NE4 Vacuum Arm 3: Shortland Sreet Subcatchment (WW)	Construction of vacuum sewerage pipes, pits, and laterals (in road reserve only) and connecting up to the new vacuum pump station in Bexley Reserve.
10963	Aranui Catchment NE4 Vacuum Arm 4: Marlow Road Subcatchment (WW)	Construction of vacuum sewerage pipes, pits, and laterals (in road reserve only) and connecting up to the new vacuum pump station in Bexley Reserve.
10964	Aranui Catchment NE4 Vacuum Arm 5: Portchester Street Subcatchment (WW)	Construction of vacuum sewerage pipes, pits, and laterals (in road reserve only) and connecting up to the new vacuum pump station in Bexley Reserve.
10965	Aranui Catchment NE4 Pressure Sewerage System - East Avondale centred on Cowes Street (WW)	Construction of a pressure sewerage system including individual pump station units in private property, laterals, boundary kits and pressure mains. The pressure main from the catchment then runs along Anzac Drive and discharges to a new inlet manhole (by others) near the junction of Anzac Drive and Bexley Road.
10975	NE12 - North New Brighton Wastewater Catchment Repairs (WW)	Repair of the Wastewater network within the North New Brighton area.
10976	NE13 - Beach Road & Bower Ave Wastewater Catchment Repairs (WW)	Wastewater replacement in the Beach and Bower Ave Catchment within Parklands East.
10977	NE13 - Parklands East Wastewater Catchment Repairs (WW)	Replacement of the Wastewater system in the Parklands East area.
10978	NE13 - Parklands West Wastewater Catchment Repairs (WW)	Wastewater repairs to the Parklands West catchment area.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10314	Keyes Road Catchment (WW, WS)	Repair and/or reinstatement of wastewater system.	5/03/12	XXXX	\$5,465,563	\$5,389,934
10318	PS37 North Catchment (WW)	Wastewater repairs and renewal for northern half of PS37 catchment. Includes one new pump station and approximately 100 pressure sewer pumps.	27/04/12	2/05/13	\$4,361,942	\$2,669,249
10335	PS54 - Catchment	A large waste water catchment of approx 12 streets which all drain to Pump Station 54 in Avondale.	2/11/11	9/10/12	\$10,893,000	\$6,613,190
10359	PS54 - Niven Street (WW)	Minor works on pump station 54 as described in an IRMO report form	25/10/11	24/10/12	\$22,100	\$62,282
10363	PS 108 Catchment (old PS39 Catchment)	A large waste water catchment of approx 12 streets which all drain to Pump Station 54 in Avondale.	11/11/11	31/10/12	\$5,306,865	\$4,791,460
10416	PS37	Repairs to existing PS37, including new pump intakes and repairs to yards.	24/01/13	21/03/13	\$247,891	\$682,527
10429	Estuary Rd Carriageway, PS37 to Bridge Street Catchment (WS,SW,RD)	Repairs to roads, stormwater and water in Estuary Road between Bridge Street and Beatty Street.	28/09/12	28/02/13	\$1,351,722	\$1,790
10430	PS28 - Catchment	PS 28 catchment services residential and industrial land loosely bounded by Pages Rd, Cuffs Rd, Wainoni Rd and Shortland St in the suburb of Wainoni. Other pockets of land are also serviced including 650 m of Wainoni Rd north of Shortland St and 240 m of Breezes Rd, an area west of Wainoni Rd including a portion of Avonside Dr, Newport St, Tenby Pl and Emlyn Pl, 350 m of Wainoni Rd south of Cuffs Rd and an area south of Pages Rd including Price Pl, 180 m of Kearneys Rd and Mecca Pl. The seismic events caused liquefaction and land settlement throughout the catchment. The pump	23/07/12	11/07/14	\$15,841,952	\$390,292

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		station is still operational and in a serviceable state. The majority of the network suffered either loss of grade, cracks and breakages or a combination of the two. Therefore a significant proportion, if not all, of the network will need to be replaced.				
10532	Cnr Pages & Cuff - Emergency Repair	A large waste water renewal to a section of gravity pipe in Pages Rd.	30/01/12	18/10/12	\$1,794,976	\$2,558,966
10557	Gayhurst Road Roothing (RD)	Design for road reconstruction to repair moderate to severe earthquake damage to carriageway, kerb and channel, and footpaths from Dallington Bridge northwards to Mundys Road. This project will become part of PS108 Catchment Phase 1 Roothing, Storm Water and Water Supply. This work follows wastewater repairs/replacement.	16/07/12	13/05/13	\$2,747,247	\$862,334
10577	PS 106 - Woolley	Minor new pump station.	2/07/12	28/11/12	\$428,800	\$365,388
10681	Bower Avenue Watermain and Submains (WS)		27/02/12	12/10/12	\$553,869	\$470,489
10765	PS 108 New Pump Station	Minor new pump station.	8/10/12	12/04/13	\$1,056,159	\$15,557
10769	CCC - Keyes Pumping Station (WS)	CCC capital works programme rebuilding project for the Keyes Water Pumping Station. Initial design was carried out by CPG, and URS are also involved with the geotechnical investigation and report.	25/06/12	23/11/12	\$2,915,195	\$1,499,018
10786	PS 108 Catchment Stormwater, Water Supply and Roothing Renewals (SW,WS,RD)	Design for repair (some full reconstruction) of minor to severe earthquake damage to carriageways, kerbs and channels, and footpaths with associated storm water and water supply works in 11 streets situated immediately to the east and west of Gayhurst Rd from McBratneys Rd northwards to	3/10/12	9/08/13	\$1,915,623	\$195,272

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		Mundys Rd. This work will follow construction of wastewater repairs/replacement.				
10802	PS54 Stage 1 - Northern Roading Renewals Incl Breezes Road	Road design for 8 roads in Avondale. New pipe systems are needed in multiple roads requiring asset managers understanding and buy-in. Includes stormwater full dynamic modelling with probable need to restore capacity by optioneering new components (new basin and/or pump upgrading).	10/09/12	12/06/13	\$3,782,598	\$168,530
10803	PS54 Stage 1 Southern Roading Renewals (South of Breezes Road)	Road design for Pembroke St and Horton Place in Avondale. A new pipe system is needed on Horton St requiring asset managers understanding and buy-in.	2/07/12	14/03/13	\$900,394	\$764,710
10806	Pages & Cuffs Emergency Repair Roading (RD)	Road design for short section of dual carriageway on Pages Road. Rectification involves re-surfacing with new asphalt and minor adjustments to vertical profile and also a short stormwater pipe to connect to new low point in kerb.	7/05/12	29/10/12	\$433,037	\$276,197
10846	Water Main Replacement Projects - Feb 2012	Water Main replacement projects for: Vivian St, Admirals Way, Pine Ave. Other streets have been moved to other projects: Port Hills Rd and Flavell St to 10681. Keyes Road to 10314. All others removed.	25/05/12	26/11/12	\$883,245	\$687,277
10896	Minor Works - Demolition of Porrit Park and Snells Footbridges, PS26 and PS27 Pump Stations	Demolition and make safe work for Porrit Park Footbridge, Snells Footbridge, PS26 and PS27. Rebuild of the bridges to be undertaken in separate standard projects.	23/10/12	27/11/12	\$223,084	\$36,173
10898	Minor Works - Medway Footbridge Removal	Removal and make safe of the footbridge. Store off site until a decision is made regarding the structure	1/11/12	14/11/12	\$82,348	\$5,047

4.1.3.3 Fendalton / Waimairi

DETAILED DESIGN		
Reference	Project	Project Description
10894	Fendalton Bridge Repair Package - Minor Repairs (RD)	Repair of 6 damaged bridges within the general region of Fendalton. The six bridges included are: R131, R133, R137, R148, R153, R166.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10425	Glandovey/Bryndwr Cluster	Design for repair to severe earthquake damage to wastewater and minor damage to carriageways, kerbs and channels, and footpaths (severity yet to be confirmed) storm water and water supply. This cluster incorporates the 9 streets immediately adjacent to and including Glandovey Road between the Wairarapa Stream and Strowan Road	2/11/12	29/08/13	\$2,817,756	\$84,110
10485	Merivale WW	Approximately 9km of WW gravity system, one new pump station.	14/05/12	26/04/13	\$14,263,822	\$4,100,402
10575	Papanui Rd - Knowles to Mays (WW)	The area has been broken into wastewater sub-catchments in order to determine the best catchment wide solution. 10575 therefore includes Browns Rd north of Mansfield Ave, McDougal Ave east of Murray Pl, Murray Pl, Innes Rd between Papanui Rd and Browns Rd, Heaton St east of Circuit St, Papanui Rd between Innes Rd and Mays Rd, approximately 230 m of the eastern end of Knowles St, Weston Rd and Chapter St, Approximately 280 m of the western end of Normans Rd and 150 m of the eastern end of Mays Rd.	17/05/12	24/06/13	\$4,795,898	\$2,130,922

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10595	Wairakei Road (WW)	Replacement of the deep 225 mm sewer main and the construction of new 150 mm sewer rider mains over the deep main. The wastewater works are from Aorangi Street to Idris Road.	2/08/12	27/02/13	\$1,004,982	\$61,512
10852	Minor Works - Casebrook Block	Minor footpath and pavement repairs	31/05/12	14/12/12	\$226,107	\$61,047
10857	Minor Works - Bridge Minor Works Project Package 02	Minor repair works to 55 bridges that suffered low levels of damage during the EQ events. Delivery team led with input from SCIRT Design teams where required.	1/08/12	12/10/12	\$29,231	\$121,128

4.1.3.4 Central City

DETAILED DESIGN		
Reference	Project	Project Description
10464	F106 Antigua Street Footbridge	Replacement of existing structure, or incorporate historical elements into major repair works
10465	F105 Bridge of Remembrance	Major structural repair works
10467	R114 Colombo St (North) Bridge	Major structural repair works Northern Colombo St, over the Avon, heritage bridge near intersection of Oxford Tce & Colombo St.
10468	R115 Armagh St Bridge	Major structural repair works
10482	Triumphal Arch	All works related to both temporary bracing to arch to support the structure and all permanent repair works. In CBD, Heritage structure.
10844	Central City Pump Station PS2 Catchment (WW)	Repair/replacement of wastewater system in the north west of the CBD. Excludes WW Brick barrel which is considered under Project 10845.
10919	CCC - Wairakei Diversion (WW)	CCC Capital Works project to be delivered by SCIRT for the Wairakei Diversion Project
10986	Central City Kilmore Street Catchment Area (WW)	Repair/replacement of wastewater system in the north west of the CBD. Excludes WW Brick barrel which is considered under Project 10845.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10401	Moorhouse Brick Barrel 01 (SW)	Repair of a failed stormwater Brick Barrel pipe on Moorehouse Ave under the Colombo St over bridge	5/11/12	16/01/13	\$486,192	\$340
10445	Fitzgerald Ave Wall and Roding	The works include the replacement of a failed retaining wall and carriageway. Ground stabilization is also being installed with stone columns 12 meters deep.	15/06/11	30/01/13	\$3,130,000	\$4,241,813
10506	Hagley Syphon	Open trenching through Avon and sewer works in North Hagley Park.	23/04/12	12/10/12	\$450,006	\$576,263
10867	Fitzgerald Ave Retaining Wall Footpath	Footpath element of the Retaining Wall project. Linked to Project #10445	10/05/12	12/10/12	\$604,414	\$671,967

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10893	Minor Works- Bridge Minor Works Project Package 01 Bridging	Minor repairs to bridges requiring little design input. Project to be led by SCIRT Project Manager and Delivery teams	23/07/12	13/12/12	\$221,172	\$79,053

4.1.3.5 Hagley / Ferrymead (*excludes central city)

DETAILED DESIGN		
Reference	Project	Project Description
10347	Gayhurst Rd Bridge Works EW (RD)	Retrofit repair to bridge involving new abutments, piles, wingwalls and associated road approaches and services.
10405	Stadium Package 01 (WS SW WS RD)	Repair of road and all buried services along a section of Ferry Rd and Moorehouse Ave, near the AMI stadium
10449	St Johns (WW)	
10462	Site 228 Rangatira Tce Retaining Wall (RW)	
10795	PS57 McCormacks Bay Rd Pump Station Repairs (PS)	Repairs to building at existing pump station.
10823	St John's Catchment (SW,WS,RD)	Catchment study for a full one pass rebuild of remaining services within the catchment area. Refer to Project 10449 for WW assets in this area.
10824	Beachville Catchment Area including Beachville Road & Celia Street (WW,WS,SW,RD)	Full one pass rebuild of the catchment area. Project Includes PS30, WW, SW, RD and Sea Wall assets. Projects already existing in this area which this catchment study will relate to are: 10600 - PS30, 10619 - Beachville Road Eastern Seawall, 10677 - Beachville Watermain WS.
10832	PS15 - Alport Place Pump Station Replacement (PS)	Construct a new Pump Station; tie in works, odour control system and demolition of existing PS15.
10850	Cannon Hill Cres Retaining Walls (RW)	Renewal of 2 collapsed retaining walls on Cannon Hill Road
10860	PS18 Rebuild SE11 North (WW)	Full area rebuild of the northern area of the PS18 catchment - WW element. Expected projects in the region of \$10M should result.
10868	PS 18 Rebuild SE11 North (WS,SW,RD)	Full area rebuild of the northern area of the PS18 catchment - RD,SW & WS elements. Linked to 10860. Construction project in the region of \$10M expected from this concept report.
10908	CCC - The Causeway, Main Road Sumner, Culvert Replacement (SW)	Renewal of the culvert structure linked to the Causeway project #10634. CCC BAU Project.
10927	Retaining Wall - 1 to 3 Maffeys Road (RW)	Repair of the retaining wall at 1-3 Maffeys Road. Linked to 10307
10931	Retaining Wall - Site 182 & 183 -	Repair of the retaining wall

DETAILED DESIGN		
Reference	Project	Project Description
	Glenstrae Road (RW)	
10995	Avonside Linwood Stage 1 (WW,SW,WS,RD)	One pass approach renewing wastewater, roading and stormwater assets within stage one of the Avonside Linwood Catchment. Standard project resulting from Catchment Studies 10875 and 10876.
10996	Avonside Linwood Stage 2 (WW,SW,RD)	One pass approach renewing wastewater, roading and stormwater assets within stage two of the Avonside Linwood Catchment. Standard project resulting from Catchment Studies 10875 and 10876.
10997	Avonside Linwood Stage 3 (WW,WS,SW,RD)	One pass approach renewing wastewater, roading and stormwater assets within stage three of the Avonside Linwood Catchment. Standard project resulting from Catchment Studies 10875 and 10876.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10303	Site 229 Mt Pleasant Rd Retaining Wall (RW)	60m replacement retaining wall and road reinstatement, in Mt Pleasant	4/02/13	28/05/13	\$458,381	\$3,629
10306	CCC - PM11 Randolph (WW)	3.6km, 1.2m dia WW pressure main	5/03/12	XXXX	\$13,086,718	\$8,635,704
10307	173 Maffey's Road Retaining Wall (RW)	Repair of retaining wall in Maffey's Rd, along with associated buried services	8/10/12	10/12/12	\$1,505,281	\$219,025
10317	Heberden Ave Permanent Solution (WW)	New gravity sewer diversion to replace broken sewer down Scarborough Cliffs.	9/11/12	18/12/12	\$256,733	\$388,083
10356	Woodham Rd (PS5 east of river)	The project scope requires replacement of 960m of damaged waste water from Linwood Ave to Ngarimu St. Road refurbishment will follow sewer works. Traffic diversions are required for this work to be completed safely.	14/11/11	12/10/12	\$3,095,185	\$2,633,346
10388	Richardson	The extent of this work for this work package is the	1/11/12	7/01/13	\$473,489	\$1,703

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
	Clarendon Syphon	replacement of the 144 Richardson Terrace / 121				
10403	Barbour St Water (WS)	Replacement of water mains in two streets to the south and east of AMI Stadium, Waltham.	19/10/12	21/12/12	\$174,742	\$1,554
10428	RW Mt Pleasant Rd Wall 156 (RW)	Design a replacement retaining wall to support a section of Mt Pleasant Road. The existing wall is constructed from gabion baskets and is not of heritage value	9/07/12	27/09/12	\$117,280	\$126,212
10459	Lower Richmond-Stanmore to Fitzgerald (WW)	Approximately 5km of WW, gravity system; requiring 2 new pump stations	20/03/12	23/04/13	\$11,833,107	\$6,267,761
10472	Charleston	Approx 2.9km WW enhanced gravity system, 1 new pump station; 0.3km SW; 8600m2 carriageway reconstruction, and 1830m2 localised repairs	7/05/12	1/02/13	\$3,737,683	\$2,222,662
10483	Lower Richmond (Southern Section) WS,SW,RD	Full reconstruction of intersection (80m), and localised repairs on remaining streets; 86m of SW replacement	4/10/12	21/12/12	\$316,261	\$6,719
10541	PS 11 - Randolf		11/06/12	12/03/13	\$475,000	\$663,458
10548	Gloucester Street	Design for Wastewater, Stormwater, Water & Rooding along Gloucester Street between Woodham Road and Avonside Drive. Close to complete replacement of all WW and Rooding assets. Stormwater is reasonably intact.	26/06/12	9/11/12	\$1,078,084	\$981,947
10578	PS 107	Minor new pump station.	29/10/12	4/03/13	\$563,749	\$27,536
10579	PS5 - Catchment (West of river)	Pump Station 5 catchment originally serviced an area either side of the Avon River at the northern end of Linwood Avenue and south eastern edge of lower Richmond. Pump Station 5 was badly affected	10/10/12	5/08/13	\$2,422,349	\$14,405

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		in the series of earthquakes. A proposal to split the PS5 catchment either side of the river to enable removal of pump station from close proximity of the river has received informal agreement among CCC Asset and technical representatives. This project relates to the reinstatement of sewer services to the portion of the original PS5 catchment to the west of the Avon River. Reinstatement options will consider the range of options allowed under the technical standards and will likely require a new pump station or siphon crossing beneath the Avon river.				
10582	PS8 - Catchment	Design for repair to severe earthquake damage to wastewater within Pump Station 8 catchment green zone. The green zone is located to the north-west of the Avon River and generally bounded by Flesher Ave to the east and south, Chrystal St to the west and Medway St to the north.	5/11/12	6/06/13	\$2,974,474	\$6,226
10634	Main Road (Mt Pleasant - Beachville) Sumner Causeway (RD)	Repairs to main road causeway including replacement of estuary seawall and minor cross culverts and carriageway repairs.	16/10/13	31/03/14	\$1,189,804	\$ -
10680	Clifton No. 4 Reservoir	Repair and retrofit of reservoir.	21/03/12	11/12/12	\$437,673	\$288,162
10770	Linwood Ave / Humphrys Dr Retaining Wall Emergency Permanent Repairs (RW)	8m replacement and 8m extension of retaining wall at the City outfall drain to the estuary	14/08/12	30/10/12	\$397,365	\$239,328
10820	McCormacks Bay Reservoir Stages 3,4 and 5	Tank 1 and 2 and access reinstatement.	1/06/12	23/09/13	\$1,106,431	\$488,179

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10822	McCormacks Bay Reservoir Stage 2 Walls	Retaining walls and rockfall protection works at reservoir site.	30/01/12	20/03/13	\$1,549,159	\$1,051,412
10841	Charleston Catchment Area (RD,SW,WS)	Linked to Project 10472 WW for the RD SW and WS elements.	24/10/12	20/06/13	\$1,399,044	\$2,385
10843	Lower Richmond Catchment RD SW WS	Linked to #10459 for the RD SW and WS elements of the project	26/10/12	24/06/13	\$1,573,629	\$9,870
10853	McCormacks Bay Reservoirs - Rock Face Protection Work	Rock protection work to facilitate the repairs to the reservoir tanks	7/05/12	12/10/12	\$1,231,910	\$955,005
10863	Charleston Waste Water Pump Station	Pumps Station Construction	7/01/13	1/05/13	\$503,092	\$12,065
10864	Woodham Road (SW,RD,WS)	Storm water and water supply elements linked to project 10356 WW & RD	29/03/12	12/10/12	\$441,840	\$480,545

4.1.3.6 Lyttelton / Mt Herbert

DETAILED DESIGN		
Reference	Project	Project Description
		There are no projects in detailed design at this time

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10394	RW Package 05 - Canterbury Stone Walls (RW)	Project to design three replacement retaining walls on Canterbury Street and one wall on Ripon Street, Lyttelton. The walls are up to 4.5m high and are of high heritage value.	21/05/12	16/11/12	\$1,482,372	\$852,223
10400	RW Package 08 - Lyttelton on-stone (RW)	Design five replacement retaining walls on London Street, Canterbury Street, Hawkhurst Road and Ticehurst Road. Sections of these walls are of high heritage value. The walls on London Street and Canterbury Street are located within the white zone.	12/06/12	29/11/12	\$589,801	\$562,709
10424	Sumner Rd Retaining Wall L (RW)	Stage one of new 450m long modular block retaining wall.	25/11/11	11/02/13	\$1,658,595	\$909,343
10427	035 Cunningham Tce Retaining Wall (RW)	Repair of retaining wall in Cunningham Tce, along with associated buried services	4/05/12	28/03/13	\$1,785,393	\$437,830
10475	Site 079 Coleridge/Dublin St Ret. Walls	200m replacement retaining wall and road reinstatement in Lyttelton	1/02/13	13/11/13	\$1,607,135	\$34,456
10905	Sumner Rd Retaining Wall L - Stage 2 Wall and Stage 1 and 2 Roads (RW, RD)	Stage two of new 450m long modular block retaining wall	25/10/12	4/06/13	\$2,054,487	\$39,541

4.1.3.7 Riccarton / Wigram

DETAILED DESIGN		
Reference	Project	Project Description
10831	CCC - PS60 (PS)	Upgrade of pump station 60 and pressure main 60 to ensure increased flows can be managed in the short term.
10920	CCC - PS105 Pump Station (WW, PS)	Construction of PS105, a CCC Capital Works Project. Linked to Project #10793 for critical path construction scheduling.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10383	PS73 Kennedys Bush	Repair of wastewater PS 73	18/05/12	18/10/12	\$86,242	\$95,909
10409	Halswell WW Package 03	Repair wastewater along a section of Halswell Rd, O'Halloran Dr, & within private properties behind Muir Ave.	9/07/12	7/01/13	\$1,516,362	\$1,151,244
10768	CCC - Wilmers Road Water Pumping Station (WS, PS)	New water source and pumping station to cater for projected growth in the western area of Christchurch.	30/04/12	25/03/13	\$4,524,196	\$1,116,938
10909	Minor Works - Port Hills Package 01	Minor road repairs within the Port Hills	3/07/12	16/11/12	\$178,770	\$104,099
10912	Sparks Road Pavement Repairs	Minor roading repairs to Sparks Road	13/09/12	30/10/12	\$115,749	\$20

4.1.3.8 Shirley / Papanui

DETAILED DESIGN		
Reference	Project	Project Description
10858	Minor Works - Pump Station Demolition and Repairs (WW)	Minor repair works to slightly damaged Pump Stations that require no major works during the rebuild programme. Demolition of 3 PS buildings to make safe in Red Zones. Project led by the delivery team with a SCIRT Design input and coordination. Close liaison with CCC Operations team (Graeme Black) required throughout the project.
10883	Emergency Repair - Northern Relief Sewer Hills & Dudley	Emergency repair to the Northern Relief Sewer
10935	Colombo Street Wastewater Upgrade and Repair (WW)	The existing 375mm wastewater line along Colombo Street is damaged, and requires replacement. It is proposed that the 375mm wastewater line will be replaced with a 600mm main to also provide the ability to divert flow from the Northern Relief for maintenance, reconstruction and maintenance of service during interruption of service
10944	Edgware Road (WS, SW, RD)	Road and Storm water repair following WW project 10536
10974	PS121 and Rising Main - Guild Street (PS7 Phase 4 Catchment PS)	New pump station (PS121) and rising main to service the newly formed PS121 catchment formerly part of PS7 catchment. Linked to project 10816.

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10344	Edgware Road - Emergency Works	A large complex repair to a sewer trunk main in Edgware Rd.	22/09/11	12/10/12	\$1,734,794	\$2,250,541
10457	Purchas & Madras (Bealey - Edgware)	WW, SW and roading repairs. Includes traffic calming on Purchas St to conform to IDS and City Plan requirements for Local Road widths.	8/11/11	30/01/13	\$2,962,824	\$4,132,815
10534	Innes & Knowles - subcatchment	The local wastewater reticulation on Innes Rd and Knowles St between Philpotts Rd and Bretts Rd suffered earthquake induced damage during the recent seismic events. Some liquefaction and land settlement was recorded in the area. Investigations	10/08/12	17/07/13	\$9,215,965	\$484,205

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		continue however much of the network is made up of Earthenware pipe laid during the 1920?s and 1930?s. This material has not performed well in other areas therefore it is anticipated some form of repair or replacement will be required for the majority of the network.				
10535	Rutland Rd - subcatchment	Wastewater repair along a single street east of Papanui. This project area is lightly to be revised.	20/04/12	16/11/12	\$1,556,699	\$1,262,565
10810	PS7 Catchment Phase 1 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapleton's Road and Shirley Road which bisect the catchment. (Area 1 of 4, south of catchment)	28/05/12	5/04/13	\$4,631,305	\$1,741,822
10812	PS7 Catchment Phase 2 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapletons Road and Shirley Road which bisect the catchment. (Area 2 of 4, eastern quarter of catchment)	30/05/12	5/09/13	\$5,460,231	\$1,795,201
10814	PS7 Catchment Phase 3 Waste Water Renewal	Wastewater network remediation in the Pump Station 7 catchment which is situated in Shirley centred upon Stapletons Road and Shirley Road which bisect the catchment. (Area 3 of 4, north western quarter of catchment)	23/07/12	31/05/13	\$6,154,487	\$688,503
10856	Minor Works - Northwood Block	Footpath and pavement repairs.	31/05/12	12/10/12	\$176,033	\$79,126
10899	Minor Works - Lower Styx Road & Turners Road	Pavement repairs	8/10/12	8/01/13	\$150,763	\$522
10930	PS7 Phase 3 Pump Station Shirley Road (PS)	New wastewater Pump Station in the PS7 catchment which is situated in Shirley centred upon Stapletons Road and Shirley Road which bisect the catchment (area 3 of 4, north western quarter of catchment).	31/07/12	17/01/13	\$985,228	\$18,723

4.1.3.9 Spreydon / Heathcote

DETAILED DESIGN		
Reference	Project	Project Description
10871	Opawa, Hillsborough Catchment SE11 (South) (WW)	Full one pass rebuild of the catchment area - WW element
10872	Opawa, Hillsborough Catchment SE11 (South) (RD,WS,SW)	Full one pass rebuild of the catchment area - RD,WS & SW elements
10879	Durham Street Overbridge Repairs	Repairs to the Overbridge
10888	Hillmorton & Hoonhay S-7 (WW)	Full one pass rebuild of this catchment area - Waste Water Element

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
10785	Holliss Ave / Glamis Place - All Services (WW,WS,SW,RD)	Repair of water & roading along a section of Holliss Ave (between Gunns & Centaurus) and all services within Glamis Pl.	8/10/12	10/12/12	\$287,051	\$3,230
10311	Antigua St / Burke St Arterial Roads (WW,WS,SW,RD)	Repair of road and all buried services along Antigua St (between Moorehouse & Brougham) and Burke St (between Selwyn & Montreal)	18/04/12	11/06/13	\$3,151,988	\$1,259,888
10379	Fisher Ave & Eastern Tce Syphon (WW)	Repair of Syphon near Fisher Ave	4/05/12	31/01/13	\$455,870	\$598,691
10385	Bewdley Evesham and Dellow	Repair of road and all buried services along Bewdley St, Eversham Cres & Dellow Pl.	20/04/12	30/11/12	\$1,552,670	\$1,578,195
10398	Somerfield Package 01 (WW,SW,RD,WS)	Repair and reconstruction of all assets within a small catchment block.	5/11/12	23/08/13	\$4,130,181	\$468
10407	St Martins Package 02 (WW,WS,SW,RD)	Repair of road and all buried services within the St Martins loop, north of Centraurus Rd.	20/08/12	16/12/13	\$8,385,354	\$429,568
10520	Hoon Hay Package 01	Repair of road and all buried services along a section of Hoon Hay Rd (between Halswell &	23/07/12	16/04/13	\$6,767,934	\$802,872

CONSTRUCTION						
Reference	Project	Project Description	Estimated Start	Estimated Finish	Estimated Cost	Life To Date
		Sparks), including Penny In, Weir PI, McBeath Ave, Muirson Ave & Greenpark St.				
10797	NZTA Heathcote/Opawa Bridge Repairs	Ground improvements, and underpinning and lifting (jacking) of the abutments	5/12/12	10/09/13	\$2,291,590	\$ -
10821	Huntsbury Reservoir Tank No 2 & demolition	New reservoir tank (no.2) constructed in NE corner of old reservoir.	2/02/12	21/12/12	\$3,458,765	\$3,512,117
10829	CCC - Victoria Reservoir Replacement (WS)	Victoria reservoir is being replaced by SCIRT and funded by CCC.	13/08/12	22/03/13	\$968,841	\$267,456

4.1.4 Projects Complete by Ward

The following section outlines the projects within each ward that have been completed since SCIRT was established on 1st September 2011. It includes both a summary of numbers of projects as well as a list of specific projects. It is anticipated that the completed projects for the last quarter will be reported on a monthly basis.

Ward	August Number of Projects	September Number of Projects	August Projects Life To Date Cost	September Projects Life To Date Cost
Burwood-Pegasus	82	86	\$23,293,817	\$26,179,745
Fendalton-Waimari	3	3	\$210,717	\$210,717
Central City	6	7	\$368,266	\$405,759
Hagley-Ferrymead	65	69	\$19,356,956	\$21,282,217
Lyttelton-Mt Herbert	5	5	\$462,580	\$464,597
Riccarton-Wigram	6	6	\$4,808,736	\$4,828,646
Shirley-Papanui	21	21	\$6,613,553	\$6,851,674
Spreydon-Heathcote	16	18	\$6,325,170	\$7,455,922
Total	204	215	\$61,439,795	\$67,679,277

In the table above, the previous monthly report totals have also been included to show the change in activity.

4.1.4.1 List of Projects Complete by Ward

Ward	Reference	Project	Project Life to Date Cost
Burwood-Pegasus	10312	Rowes/Tomrich Street Watermain	\$264,247
	10321	PM 51 Emergency Repair	\$1,510
	10325	Cresswell Avenue - Watermains	\$148,731
	10327	Pembroke Street	\$146,277
	10328	De Ville Place	\$107,535
	10331	PM 39 - Gayhurst Road	\$1,594,111
	10332	PM54 - Niven-Avonside	\$375,476
	10338	Wainoni Road (WW EW - Ottawa to Avonside)	\$908,330
	10339	Woodham Road (Temp Repairs)	\$4,146,744
	10340	Ottawa Road Sewer Emergency Repair	\$517,444
	10342	Avondale Road (Bridge Emergency Works)	\$0
	10343	PM16 - Oakmont Green	\$4,287
	10346	Fleete Street - Emergency Repair	\$9,243
	10349	PS39 - Birchfield Avenue WW EW	\$218,674
	10351	Ardrossan Street - Temp. Solution	\$347,571
	10355	Landy Street	\$18,738
	10364	Shortland Street	\$343,883
	10366	McBratneys Road - WM	\$348
	10376	PM 28	\$1,499,119
	10384	Pacific_Tedder Watermain Replacement	\$528,152
	10421	Estuary Rd Carriageway, PS37 to Bridge Street Catchment (WW)	\$2,411,794
	10440	PS 25C	\$702,670
	10443	PM 38 Beach Rd	\$596,770
	10484	Pump Station 25 connection repair	\$8,977
	10551	Avondale Rd (Temp Repair)	\$0
	10576	PM 106 - Woolley	\$1,466
	10604	PM 45	\$324,122
	10605	Sylvia Street watermain (WS)	\$134,293
	10606	Chadlington Street Water Mains	\$35,376
	10607	PM 37 (WW)	\$1,908,679
10608	PM 35	\$1,087,648	
10614	Aldershot Street watermain (WS)	\$255,436	

Ward	Reference	Project	Project Life to Date Cost
	10615	Willryan Avenue Watermain	\$237,336
	10616	Flemington and Ascot Ave Watermains	\$525,630
	10617	PM 46	\$5,913
	10621	Chartwell Street Water Mains	\$384,531
	10638	630 Pages Road 450mm (WW)	\$25,397
	10639	23 Leaver Tce WW	\$62,858
	10641	Kirner St WW	\$21,497
	10645	Inwoods Close 450mm WW	\$128,404
	10647	Travis Rd watermains and submains	\$215,845
	10649	Corhampton Street watermains and submains	\$261,190
	10650	Water Main on Bridge Street Bridge (WS)	\$207,907
	10651	Keyes Road Watermain (WS)	\$195,045
	10664	Saltaire (Bower to Marriots Rd) (WS)	\$69,096
	10665	Sinclair (Keyes to Rawson) - WS	\$250,841
	10669	Palmers Road PS Stabilisation	\$16,065
	10670	Major flooding Pratt St.	\$295,425
	10671	Owles Tce Temp. (WW)	\$113,618
	10676	Marine Parade Watermain	\$153,358
	10682	Briarmont Street watermain	\$87,815
	10683	Cowes St Watermain and Submains (WS)	\$107,789
	10684	Gresham Terrace Watermain and Submains (WS)	\$161,116
	10685	Inverell Pl Watermain and Submains (WS)	\$63,517
	10686	Orrick St Watermain and Submains (WS)	\$83,284
	10688	Blake St Watermain (WS)	\$343,340
	10689	Pegasus Ave Watermain	\$168,650
	10690	Bassett St Watermain (WS)	\$225,196
	10691	Falcon St Watermain	\$180,732
	10692	Beach Rd Watermain	\$138,143
	10695	Allstone Watermain	\$90,800
	10696	Marriotts Road Watermain	\$36,116
	10700	Hulverstone Drive Emergency Repair	\$22,188
	10702	Rawhiti Water Well Stormwater Outfall	\$147,524
	10706	Bowhill Watermain (WS)	\$149,728
	10708	Rookwood Ave Watermain	\$174,380
	10711	Waitaki St Temp. Sewer	\$0

Ward	Reference	Project	Project Life to Date Cost
	10714	Kate Sheppard Emergency Repair (Barkers Lane Temp Works) (WW)	\$187,534
	10723	Merrington Cres Watermain	\$183,621
	10728	Rowan Ave Emergency Work WW	\$447,340
	10744	PS 36 Gravity Main (Pages Rd)	\$579
	10749	Beach Rd Gravity Sewer (WW)	\$67,291
	10752	Desal plant long term storage (WS)	\$79,908
	10756	PM39 Temp Overland Pipe (PM)	\$7,828
	10760	Pages Road	\$44,999
	10789	Woodham Road Water Supply Pumping Line Renewal	\$83,862
	10794	Pratt Street (Keyes Road) Water Main from Pumping Station	\$217,767
	10833	Fast Track - PS36 Sewerage Overflow Repairs Pages/Waitaki (WW)	\$21,204
	10834	Minor Works - Stage 1 Schools	\$7,185
	10838	Minor Works - Banks Avenue	\$119,076
	10859	CCC - Private Laterals Keyes Road (WW)	\$49,616
	10315	Ferner Street - Emergency Works	\$223,901
	10336	Kingsford & Liggins Streets (Projects 10336 & 10885)	\$204,574
	10873	Catchment Study - PS36 Catchment, Area NE4 split into 10959-65 (WW)	\$0
	10882	Emergency Work - Beatty Street	\$235,537
	10903	Catchment Study - Parklands & North New Brighton split into 10975-78 NE12, NE13 (WW)	\$0
Fendalton-Waimari	10354	Papanui Road - Emergency Work	\$53,511
	10480	R126 Monavale Footbridge	\$31,575
	10590	Thornycroft Street - Pri4 WM	\$125,632
Central City	10447	Fitzgerald Ave Temp Sewer Replacement (WW)	\$22,117
	10455	Fitzgerald Ave Twin Bridges Temp Repairs	\$0
	10726	Stormwater Pump Station 203	\$44,715
	10764	PM 3 Temporary Repair (Complex Emergency)	\$3,365
	10790	Liverpool Street Water Main (CBD)	\$107,959

Ward	Reference	Project	Project Life to Date Cost
	10880	Kilmore St Brick Barrel Repair - Emergency Work (WW)	\$190,110
	10941	Minor Works - 789 Colombo Street (WS)	\$37,493
Hagley-Ferrymead	10301	CCC - Tanner Street Replacement Well (WS)	\$15,792
	10319	St Martins Package 01 (WW) Wilsons Rd South, St Martins Rd and Gamblins Rd	\$1,505,454
	10326	Retreat Road	\$678,774
	10333	PM 57 - Replacement (Stage 2 March)	\$2,075,207
	10337	Avonside - WW Trunk Sewer	\$204,090
	10341	River Road - Siphon (WW)	\$667,409
	10350	Avonside Drive/Retreat - Gravity Sewer Repair	\$93,588
	10352	Avonside Drive/Morris Bowie - Gravity Sewer Temp. Solution	\$86,006
	10353	294 Avonside Drive - Temp. Solution	\$241,562
	10358	PS57 - McCormacks Bay Rd Sewer Overflow Renewal	\$170,231
	10361	PS54 Catchment Temp. Solutions	\$878,397
	10362	PS5 - Glade	\$0
	10372	Dacre Street	\$125,100
	10386	St Andrews Hill Rd Sewer (Major Hornbrook)	\$67,715
	10391	Stevens St Watermain	\$164,811
	10402	Moorhouse SW BB 02	\$72,744
	10406	226 Main Road SW	\$4,627
	10411	Clifton Reservoir 3	\$360,172
	10417	Upper Balmoral Reservoir	\$406,969
	10422	PM 31 Renewal Works (WW)	\$1,591,347
	10431	PS15 Alport	\$1,282,063
	10434	PS 12 Smith	\$546,105
	10441	Ferry Road 873	\$366,749
	10442	PS15 Gould Cres Overflow Structure	\$210,522
	10448	PM 12	\$710
	10451	Manning-Ferry	\$16,641
	10452	WW No Service Grafton	\$134,202
	10454	225 Linwood Ave	\$74,062
	10458	31 Stanmore Road	\$49,606
	10463	Hamner Street - waste water relay	\$72,948
	10471	33 River Terrace	\$38,939
	10473	Wickham St Watermain	\$307,303

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Ward	Reference	Project	Project Life to Date Cost
		Replacement	
	10478	F805 McCormacks Bay 1 Footbridge	\$8,795
	10479	F806 McCormacks Bay 2 Footbridge	\$7,959
	10481	R223 Heathcote Barrage	\$5,703
	10496	PS13 Tilford	\$10,207
	10497	PS 10 Linwood WW	\$13,921
	10499	Saxon Street Waste Water	\$15,687
	10505	Stanmore Road Lateral	\$0
	10537	Patten Street	\$633,749
	10539	Brittan Street	\$564,450
	10586	PM 107	\$261,078
	10609	PM 47	\$24,815
	10612	McCormacks Bay Reservoir No 2-2	\$692,173
	10613	Mt Pleasant Reservoir 2/2	\$95,660
	10618	Beachville Road Pressure + Gravity Main	\$476,693
	10629	McCormacks Bay Rd WR mains and submains (WS)	\$2,185,608
	10644	55 Clark St WW	\$759
	10666	Head Street - Esplanade to Nayland (WS)	\$78,803
	10677	Beachville Watermain (WS)	\$248,043
	10679	Moncks Spur No. 3	\$213,631
	10687	Wakefield Ave Watermain (WS)	\$156,900
	10716	PM 34 Sumner - Replacement	\$1,596,534
	10729	WW, Gravity Bridal Path and Cannon	\$250,799
	10734	WW, 262 Main Road	\$0
	10739	Heberden Ave Temporary Solution (WW)	\$102,792
	10743	281 River Rd Siphon (WW)	\$0
	10746	Ruru Ave Repair PM 11	\$42,191
	10747	Bromley Waste Water Treatment	\$23,860
	10753	WW No Service Glendevera (WW)	\$2,081
	10763	Moncks Bay Walkway - Temp Repairs	\$45,416
	10779	CCC - Linwood Avenue Water Main	\$455,656
	10782	15 Dunoon Place Emergency Stabilisation / Sewer Repair	\$179,641
	10792	Truro Street Emergency Waste Water Sewer Renewal (Van Asch School)	\$177,834

Ward	Reference	Project	Project Life to Date Cost
	10830	Minor Works - Bridge Minor Works Project Package 01 Roothing	\$10,837
	10835	Minor Works - Avonside Girls High School	\$78,494
	10875	Catchment Study - Avonside & Linwood Area CE-5,6,7,9,10,11,12 (WW)	\$0
	10876	Catchment Study - Avonside & Linwood Area CE5,6,7,9,10,11,12 (RD, SW & WS)	\$96,101
	10772	Monks Bay Main Road Emergency Repair (WW)	\$15,503
Lyttelton-Mt Herbert	10382	Lyttelton Treatment Plant Access	\$ -
	10636	Priority Roads - Governors Bay Road Rebuild	\$389,090
	10672	Sutton Quay Retaining wall 441 (RW)	\$39,384
	10878	Minor Works - Cunningham Terrace & Sumner Rd Temp Access Works	\$35,211
	10418	Lyttelton Dyers Road Pump Station (WS, PS)	\$912
Riccarton-Wigram	10309	Halswell Minor Roothing Works - All Areas	\$322,784
	10380	Halswell WW Package 02	\$2,031,265
	10387	Townshend Crescent Wastewater	\$46,679
	10389	Sparks Rd Watermain	\$175,935
	10392	Halswell WW Package 1 (WW)	\$2,109,992
	10408	Glovers Street water (WS)	\$141,990
Shirley-Papanui	10308	Riselaw Street	\$91,424
	10313	PM 6 - Harrison St	\$206,843
	10322	Ranfurly Street	\$118,626
	10323	Chrystal Street	\$83,927
	10329	Hope Street	\$145,208
	10330	Orontes Street - WS	\$90,022
	10334	PM 7 - Stapletons Road	\$242,909
	10345	Nancy Ave / Weston Road	\$16,297
	10348	Shirley Road - Wastewater (Emergency Repair)	\$696
	10369	Orion Street	\$41,881
	10435	Temporary Gravity Sewer Lower Styx Road	\$1,065,429
	10437	PM 40 Marshlands	\$585,684
	10439	Heyders 29-65 (WW)	\$320,151

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Ward	Reference	Project	Project Life to Date Cost
	10446	Brooklands Roding - Temporary Repairs	\$364,289
	10460	449 Durham Street North	\$304,376
	10536	Edgware Rd - WW	\$1,828,204
	10555	Madras Street / Forfar Wastewater	\$588,121
	10805	Madras Street Road, Storm Water & Water Supply Repairs	\$340,631
	10837	Minor Works - Shirley Boys High School	\$112,202
	10851	Minor Works - Marshland Road & Belfast Road	\$303,656
	10581	Catchment Study - PS7 (10810, 10811, 10812, 10813, 10814, 10815, 10816, 10817)	\$1,098
Spreydon-Heathcote	10320	Murray Aynsley Reservoir 2	\$148,161
	10381	Rydal St (WW)	\$921,784
	10390	Centaurus Rd Watermain	\$143,772
	10393	Smartlea WW Emergency Repair	\$109,989
	10396	75 Wilsons Emergency Repair	\$825
	10397	Glenelg Spur 01	\$142,696
	10404	Hollis Ave Water (WS)	\$177,601
	10410	Hollis Ave WW	\$945,569
	10432	PS19 Beckford	\$3,201
	10433	PS20 Locarno	\$19,394
	10476	F207 Aynsley Tce Footbridge	\$8,319
	10477	F212 Sloan Tce Footbridge	\$593
	10545	PS19 - Syphon	\$0
	10597	Huntsbury Reservoir (WS)	\$4,071,157
	10717	Colombo St (South) Bridge - Concept only, no construction work undertaken (RD)	\$2,207
	10745	CCC - Sydenham Stn Replace Wells (WS)	\$236,486
	10755	PS19 Fifield - 171 Fifield - Sheetpiling protection of riverbank	\$114,715
	10787	Rydal Street Water Supply, Storm Water and Roding Renewals (SW,WS, RD)	\$409,453
Grand Total			\$67,679,347

4.2 NON-SCIRT Work Activity

4.2.1 Introduction

The following section of the report included a progress report against infrastructure and other associated rebuild projects that are not being delivered by SCIRT. It includes a report on progress on Greenspace projects, Christchurch Wastewater Treatment Plant and Organics Processing Plant, Burwood Landfill and Water Supply Wells.

4.2.2 Greenspace

Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
Banks Peninsula Wards	WP0000537	PARKS Marine Structures Repairs	Marine Structures Repairs	13	CONSTRUCTION	01/08/2011	30/06/2013	\$462,000
	WP0000551	PARKS Marine Structures Assessments	Marine Structures Assessments	10	COMPLETE	01/08/2011	30/11/2011	\$50,000
	WP0000783	B/P Retaining Walls	Retaining wall repairs in parks and cemeteries on Banks Peninsula	4	INVESTIGATION	01/07/2012	30/06/2013	\$241,000
Burwood Pegasus	WP0000251	PARKS CEAF 1.1 Sth New Brighton CAPEX	Hard surface and playground undersurfacing renewals	4	CONSTRUCTION	01/10/2011	30/06/2013	\$227,000
	WP0000257	PARKS CEAF 1.2 B/P CAPEX	Bexley, Avondale and Burwood Parks hard surfacing renewals	3	COMPLETE	01/09/2011	31/10/2011	\$60,200
	WP0000258	PARKS CEAF 1.2 B/P OPEX	Hard surface repairs	11	COMPLETE	01/10/2011	29/02/2012	\$131,000
	WP0000284	PARKS CEAF 2.6 TRAVIS CAPEX	Hard surface renewals	5	COMPLETE	01/12/2011	29/02/2012	\$175,500
	WP0000285	PARKS CEAF 2.7 AVON PARK CAPEX	Hard surface renewals	3	INVESTIGATION	01/03/2012	30/06/2013	\$290,550
	WP0000286	PARKS CEAF 2.8 ESTUARY CAPEX	Hard surface renewals	1	INVESTIGATION	01/03/2012	30/06/2013	\$300,000
City wide	WP0000177	PARKS Playground Softfall - CAPEX	Replacement of contaminated softfall to playgrounds	24	COMPLETE	01/08/2011	30/11/2011	\$358,460
	WP0000206	PARKS Playground Softfall - OPEX	Repairs to playground undersurfacing	8	COMPLETE	01/08/2011	20/12/2011	\$46,500
	WP0000269	PARKS CEAF 2.2 S/P,F/W,R/W,L/M OPEX	Hard surface and minor structural repairs	11	COMPLETE	01/03/2012	31/05/2012	\$54,500

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Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
	WP0000312	PARKS Hard Surface Nthn & Sthn - OPEX	Hard surface repairs	58	CONSTRUCTION	01/03/2012	30/04/2013	\$127,950
	WP0000313	PARKS Hard Surfaces Nthn & Sthn CAPEX	Hard surface renewals	14	CONSTRUCTION	01/03/2012	30/04/2013	\$204,600
	WP0000318	PARKS Hard Surfaces Eastern CAPEX	Hard surface renewals	23	CONSTRUCTION	01/03/2012	30/04/2013	\$604,250
	WP0000321	PARKS Hard Surface Eastern - OPEX	Hard surface repairs	76	CONSTRUCTION	01/03/2012	30/04/2013	\$227,900
	WP0000323	PARKS City Wide Turf Repairs - OPEX	Repairs to non sports turf surfaces	110	COMPLETE	01/11/2011	31/05/2012	\$390,550
	WP0000357	PARKS Retaining Walls CAPEX	Minor retaining wall renewals	5	CONSTRUCTION	01/08/2011	30/06/2013	\$252,000
	WP0000358	PARKS Retaining Wall Repairs	Minor retaining wall repairs	24	CONSTRUCTION	01/08/2011	30/06/2013	\$199,650
	WP0000376	PARKS Minor Structures CAPEX	Minor structures renewals	8	INVESTIGATION	01/08/2011	30/06/2013	\$176,000
	WP0000377	PARKS Minor Structures Repairs	Minor structures repairs	60	CONSTRUCTION	01/08/2011	30/06/2013	\$417,650
	WP0000571	PARKS 2012 Sports Fields Repairs	Repairs to sports turf 2011/12	45	COMPLETE	01/09/2011	31/03/2012	\$496,614
	WP0000768	PARKS Mature Tree Replacements	Tree renewals at Hagley Park and Sth Brighton Domain	2	COMPLETE	01/03/2012	30/06/2013	\$100,000
	WP0000769	PARKS Port Hills Restoration	Port Hills rock fencing and planting	2	INVESTIGATION	01/07/2012	XXXX	\$200,000
	WP0000205	PARKS Sports Fields Repair - Moderate	Repairs to sports turf	19	COMPLETE	01/05/2011	31/07/2011	\$254,000
	WP0000207	PARKS Sports Fields Repair - Minor	Repairs to sports turf	23	COMPLETE	01/05/2011	31/07/2011	\$122,550
	WP0000779	Structural	Bridge repairs on Parks City wide	14	INVESTIGATION	01/07/2012	30/06/2014	\$766,200
	WP0000780	Regional Parks	Repairs to structures and hard surfaces	6	INVESTIGATION	01/07/2012	30/06/2013	\$465,000

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Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
	WP0000781	Trees	City wide tree renewals	1	CONSTRUCTION	01/07/2012	30/06/2013	\$500,000
	WP0000782	Ponds	Repairs to small ponds and outflows in parks	2	COMPLETE			\$50,000
	WP0000784	Cemeteries - Operational	Repairs and make safe work to headstones in Operational cemeteries	18	COMPLETE	01/12/2011	30/06/2013	\$250,000
	WP0000785	Cemeteries - Heritage	Repairs and make safe work to headstones in Heritage cemeteries	3	INVESTIGATION	01/07/2012	30/06/2015	\$250,000
	N/A	On Hold	Projects on hold due to them being in Red Zoned areas, cordons, rock fall risk etc. Depending on land decisions some of these repairs/renewals may become redundant in the future.	141	ON HOLD	XXXX	XXXX	\$6,133,100
	N/A	Port Hill Parks/Tracks Reopening Project	Port Hill Parks/Tracks Reopening	21	INVESTIGATION	XXXX	XXXX	\$2,196,020
Hagley Ferrymead	WP0000252	PARKS Victoria Lake CAPEX	Relining Victoria lake	1	COMPLETE	01/07/2011	29/02/2012	\$500,000
	WP0000253	PARKS CEAF 1.3 Hagley Pk/Bot.Gdns CAPEX	Hard surface and playground undersurfacing renewals	5	COMPLETE	01/09/2011	29/02/2012	\$295,000
	WP0000254	PARKS CEAF 1.4 Hagley Pk North CAPEX	Irrigation and Turf renewals	2	COMPLETE	01/07/2011	31/07/2011	\$90,000
	WP0000263	PARKS CEAF 1.6 H/F CAPEX	Hard surface renewals	5	COMPLETE	01/10/2011	29/02/2012	\$103,500
	WP0000264	PARKS CEAF 1.6 H/F OPEX	Hard surface, track and minor structure repairs	20	COMPLETE	01/10/2011	29/02/2012	\$178,499

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Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost
	WP0000265	PARKS CEAF 1.8 BOT. GARDENS CAPEX	Playground undersurfacing repairs	1	COMPLETE	01/10/2011	29/02/2012	\$50,000
	WP0000287	PARKS CEAF 2.9 VICTORIA SQUARE CAPEX	Hard surface, track and minor structure renewals	4	CONSTRUCTION	01/12/2012	30/06/2013	\$727,000
	WP0000288	PARKS CEAF 2.10 CENTRAL CITY PARKS CAPEX	Hard surface renewals	3	ON HOLD	XXXXXXXXX XXX	XXXXXXXXX XXX	\$15,000
	WP0000289	PARKS CEAF 2.10 CENTRAL CITY PARKS OPEX	Hard surface, track and minor structure repairs	10	ON HOLD	XXXX	XXXX	\$14,100
	WP0000767	PARKS Sumner/Scarborough Restoration	Hard surface renewals	9	CONSTRUCTION	01/12/2011	30/04/2013	\$187,000
Riccarton Wigram	WP0000280	PARKS CEAF 2.5 MONA VALE CAPEX	Hard surface, bridge and wall renewals	5	INVESTIGATION	01/07/2012	30/06/2013	\$292,000
Shirley Papanui	WP0000255	PARKS CEAF 1.5 Groynes CAPEX	Car Park, Driveway, Turf, Track and Jetty renewals	6	COMPLETE	01/08/2011	30/09/2011	\$106,000
	WP0000256	PARKS CEAF 1.7 Temp Changing Rooms CAPEX	Portable changing facilities for sports parks	2	CONSTRUCTION	01/02/2012	31/12/2012	\$300,000
	WP0000268	PARKS CEAF 2.1 English Park CAPEX	Car Park renewal	1	COMPLETE	01/08/2011	30/10/2011	\$247,500
	WP0000277	PARKS CEAF 2.3 S/P OPEX	Hard surface and track repairs	5	COMPLETE	01/03/2012	31/05/2012	\$20,500
	WP0000278	PARKS CEAF 2.3 S/P CAPEX	Hard surface renewals	3	COMPLETE	01/03/2012	31/05/2012	\$90,000
	WP0000778	Roto Kohatu	Repairs to bankworks at Roto Kohatu Reserve	1	COMPLETE	01/02/2011	30/04/2011	\$200,000
Spreydon Heathcote	WP0000279	PARKS CEAF 2.4 S/H OPEX	Hard surface and minor structural repairs	11	COMPLETE	01/11/2011	31/03/2012	\$86,000

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Ward	Work Package Number	Project	Description	Number of projects in package	Phase	Estimated Construction Start	Estimated Construction Finish	Estimated Cost	
			ACC: Auckland City Council grant						
			CEAF: Canterbury Earthquake Appeal fund						
			NOTE: Canterbury Earthquake Appeal Fund projects are billed directly to Dept. Internal Affairs.						
			CCC labour costs to design, project manage and supervise these projects are charged to 721/120 codes depending on the asset type						
			Status Summary	67	Investigation			\$5,176,770	
		293		Construction			\$4,437,000		
		352		Complete			\$4,506,873		
		154		On Hold			\$6,162,200		
								\$20,282,843	

4.2.3 Wastewater Treatment Plant and Organics Processing Plant

Project	Description	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
Clarifiers	C4 - New structural bottom - CIPP repair to influent pipe - Modify Arms to suit new structure.	Complete	Nov 11	3 Feb 12	\$9,432,768
	C3 - New structural bottom - CIPP repairs to influent pipe. - Modify Arms to suit new structure	Complete	24 Jan 12	30 June 12	
	C1 - New structural bottom - CIPP repair to influent pipe - Modify Arms to suit new Structure	Construction	July 12	15 Feb 13	
	C2 - Verify that emergency repairs have returned asset to pre-EQ functionality and asset condition.	Investigation			
Civil & Structural	<ul style="list-style-type: none"> • Paving • C2 water • Crack repairs to structures. • Reclad Digester 2 • PST/SCT & Grit Tank Repairs 	Construction Complete Construction Complete Construction	Oct 11 Oct 11 April 11 Sept 11 Aug 12	Sept 12 Feb 12 Nov 12 Dec 11 Feb 13	\$4,514,760
Oxidation Ponds	<ul style="list-style-type: none"> • Transfer structures 1-4 • Transfer Structure 4-5. • Pond banks strengthen and reinstate to design levels. • Estuary outfall structure • Dyers Road transfer structure 	Complete Complete Construction Construction Tender	Oct 11 Dec 11 Jan 12 July 12 Oct 12	Feb 12 Mar 12 Nov 12 Sept 12 Dec 12	\$18,122,788
Galleries	<ul style="list-style-type: none"> • South Gallery – drainage and structural <i>Proposed repair strategy unsuccessful, redesign underway</i> • North Gallery – drainage & joints • Diagonal Gallery – drainage & joints • Pump Stn A – drainage & joints • Sludge Rm A – drainage & joints 	Design Construction Design Design Design	Oct 12 June 12 Oct 12 Dec 12 Jan 13	Dec 12 Oct 12 Dec 12 Jan 13 Mar 13	\$1,353,550
CWTP Trickling Filters	<ul style="list-style-type: none"> • Trickling Filter 1 • Trickling Filter 2 	Design Design	Nov 12 Dec 12	Feb 13 Mar 13	

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Project	Description	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
	<ul style="list-style-type: none"> • TF 2Outflow Pipe Repair 	Design	Jan 13	Mar 13	\$1,000,000
Mechanical & General Repairs	<ul style="list-style-type: none"> • Digesters 2 • Digesters 1 • Digester 4 • Digester 3 • Digesters 5 • Digester 6 • Buffer Tank • Primary Sedimentation Tanks • Bio- Solids Holding Tank 	Construction Investigation Investigation Investigation Investigation Complete Construction Design	Oct 11 Oct 12 Jan 13 Mar 13 Jan 14 Jun 14 Nov 11 June 11 Jan 13	Dec 12 Mar 13 Jun 13 Sept 13 Jun 14 Nov 14 Jan 12 July 12 May 13	\$5,450,250
Organics Processing Plant	<ul style="list-style-type: none"> • Demolish & Reconstruct Tunnels • Repair & Strengthen Process Hall • Repair Hard Standing 	Construction	Mar 12	July 13	\$9,518,133
Facilities	<ul style="list-style-type: none"> • Laboratory • Control room • Workshops • Offices/ Cafeteria/ Mtg room 	Design Design Investigation Investigation	Feb 13 Feb 13 Feb 13 Feb 13	June 13 June 13 June 13 June 13	\$2,741,000
Outlet Structure	<ul style="list-style-type: none"> • Replace Broken Outlet Pipes • New Outlet Structure • Decommission Broken Pipes 	Design	Nov 12	Mar 13	\$2,300,000
	TOTAL				\$54,433,249

In the table above, the bolded text identifies a change in activity since the previous monthly report.

4.2.4 Burwood Landfill

Project	Description	Material Received (tonnes)	Material Processed (tonnes)	Phase	Estimated Construction Start	Estimated Construction End	Estimated Cost
Burwood Landfill Liquefaction and Infrastructure Rebuild Waste Disposal	<ul style="list-style-type: none"> Prepare areas for disposal Operate and maintain disposal site Restoration and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties Consents granted 	366,200	366,200	Completed Operation Investigation Investigation Completed Completed Completed	Feb 11 Feb 11 Jan 12 Jan 12 Apr 12 Jun 12 July 12	Jan 12 Dec 13 Dec 13 Aug 12 Jul 12 Jul 12 Sept 12	Self Funded
Burwood Landfill Residual Demolition Waste Disposal	<ul style="list-style-type: none"> Design of new cell for residual waste Cell construction Operate and maintain disposal site Restoration and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties Consents granted 	0	0	Design Design Design Design Submitted Completed Completed Completed	Oct 11 Mar 12 Sep 12 Jul 17 Oct 11 Apr 12 Jul 12 Jul 12	Jun 12 Dec 12 Dec 17 Dec 17 Aug 12 Jul 12 Aug 12 Sep 12	To be funded by Transwaste Canterbury
Burwood Resource Recovery Park Demolition Sorting and Processing Facility	<ul style="list-style-type: none"> Construct areas for storage of material and associated roading Design of sorting plant Construction of sorting plant Sorting operation Rehabilitation and landscaping Resource consent application Consultation documents to affected parties Consultation Feedback documents to affected parties Consents granted 	352,000	0	Complete Completed Construction Operation Design Submitted Completed Completed Completed	Feb 11 Mar 11 Jul 12 Dec 12 Jul 17 Oct 11 Apr 12 Jun 12 Jul 12	Jun 11 Jun 12 Dec 12 Dec 17 Dec 17 Aug 12 Jul 12 Jul 12 Sep 12	To be funded by Transwaste Canterbury
TOTAL		718,200	366,200				

In the table above, the bolded text identifies a change in activity since the previous monthly report.

4.2.5 Wells

The damage to wells has been reported separately from the remainder of the non-SCIRT infrastructure rebuild because much of the wells repair work is reactionary due to the ongoing aftershocks.

Forward programming is limited by the reactionary work and the operational requirements of the water supply network, meaning that each package of work is programmed “on the fly” on a prioritised basis before it is issued.

The programme of work must be kept flexible in order to keep as many damaged wells operational as possible while at the same time moving forward with the repair and replacement programme. Only a limited number of wells can be taken out of service at one time to avoid affecting the demand on water supply network, and to minimise water restrictions.

	August At Ground Level	September At Ground Level	August Below Ground Level	September Below Ground Level	August Totals	September Totals
Total number of active wells					154	154
Wells yet to be repaired ^{+*}	33	34	42	44	75	78
Cost Estimate all repairs ⁺	\$4,692,000	\$4,692,000	\$17,923,000	\$18,022,000	\$22,615,000	\$22,714,000
Wells repaired to date ^{+*}	69	68	92	95	161	163
Cost to date ⁺	\$2,778,609	\$2,830,173	\$6,029,818	\$6,344,069	\$8,808,427	\$9,174,242

+ includes replacement wells

- some wells are damaged both at and below ground level

5. COMMUNICATIONS

5.1 Strategic Communications

The Mayor and Minister launched SCIRT's forward schedule of work on 7 September, at a media conference at the new Pages Road pump station site. The schedule received good media coverage and staff have since been involved in a series of Community Board meetings to explain the programme in more detail. Detailed information on the forward schedule, including a visualisation tool, can be found online at www.strongerchristchurch.govt.nz. Monthly progress reports are now going through Christchurch City Council's Environment and Infrastructure Committee before being presented to the full Council.

Monthly progress updates and key information will also be communicated through planned advertising, media and Council and Government publications.

5.2 Operational Communications (SCIRT)

5.2.1 Key Outcomes

The results from the latest face to face survey of areas where SCIRT is working show an 83% average satisfaction rating with SCIRT communication. During September, SCIRT delivered 88 start work notices to more than 24,000 properties. SCIRT communications staff carried out 667 direct interactions with residents through door knocking, responded to 308 hotline calls and 160 resident emails. The web was updated 103 times, three e-newsletters were sent and 26 tweets were made. SCIRT is coordinating communication with Orion for the installation of one of its 66kv cables, promoting strategic planning. SCIRT has attended all CERA TC3 meetings (~22) during the month, helping demonstrate a coordinated, cross-agency response to the city's recovery. Additionally, a community meeting regarding the traffic management proposed for the Bridge Street Bridge rebuild was held and the information presented was well-received by the community.

5.2.2 Upcoming Priorities

A number of community meetings are planned for the near future including one about retaining walls in Mt Pleasant where a number of walls are due to begin in the near future, and another about the bridge repair strategy in the east.

Communication about traffic management and safety around worksites will continue to roll out in the coming month. Plans to improve the SCIRT website are underway. The aim is to build GIS functionality into site so that people can type in an address and receive information about works nearby. This will be in place by the end of the year.

5.3 Summary of Media Coverage

There was positive media coverage about SCIRT in September, with around 30 positive stories compared to six negative stories. The media event to launch the SCIRT schedule of work generated significant positive media coverage, locally, nationally and overseas. The event was well attended by elected representatives and other key stakeholders.

6. ENVIRONMENT

6.1 Key Outcomes

- SCIRT and Beca have won the Resource Management Law Association's Project Award for development of the multi criteria assessment design tool.
- Environment Canterbury secondee into SCIRT is a key planning role.
- Consents have been granted for Bridge Street Bridge, and a variation for pump station construction, through a collaborative consenting approach with contractor, SCIRT, ECan and an iwi consultant.
- Re-ignition of relationships with Historic Places Trust and Council's iwi consultant. Regular meetings are scheduled to maintain momentum.

6.2 Upcoming Priorities

- Development of a SCIRT environmental training programme in conjunction with Environment Canterbury.
- Define the role of Council's iwi consultant in compliance monitoring of SCIRT sites.
- Information sharing platform under development to detail consent compliance information between delivery teams, the IST and regulators.

6.3 Environmental Statistics

Description	September 2012	LTD
Environmental Hazards	86	679
Environmental Opportunities	79	172
Environmental Team Initiatives	12	53
Community Organised Events	2	18
Number of Environmental Incidents	40	220
Infringement Notices	-	-
Abatement Notices	-	-
Criminal Legal Proceedings	-	-
Fines	-	-
% of waste reduced, re-used, recycled	21	67

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 1. 11. 2012

4. WEIGHT RESTRICTIONS ON UNDER STRENGTH AND EARTHQUAKE DAMAGED ROAD BRIDGES

General Manager responsible:	General Manager City Environment Group, DDI 941-8608
Officer responsible:	Unit Manager, Transport and Greenspace
Author:	Ryan Rolston, Traffic Engineer - Transport

PURPOSE OF REPORT

1. The purpose of this report is to seek the Committee's recommendation to the Council to adopt weight and speed restrictions on certain Council road bridges that are under strength or have been damaged by earthquakes.

EXECUTIVE SUMMARY

2. Ongoing routine inspections and additional inspections as a result of the earthquakes were undertaken to determine requirements for weight and/or speed restrictions on Council road bridges. Weight and speed restrictions have then been implemented where a need was identified to prevent further damage. Many of the present restrictions expire on 10 November 2012, noting that the Heavy Motor Vehicles Regulations 1974 only enables bridge weight and speed restrictions to be implemented for a maximum of 12 months and the present restrictions were notified on 10 November 2011.
3. Routine inspections have identified a number of additional Council bridges with no current restrictions where weight and speed restrictions are now required.
4. Appendix A (refer **Attachment 1**) lists Council bridges with existing or required weight and speed restrictions. This report recommends the approval of the specified weight and speed restrictions on these bridges for the subsequent 12 month period.
5. Public notification is required to give legal effect to the restrictions. It is proposed to publically notify the restrictions through the public notices in "The Press" newspaper. Following notification, the New Zealand Transport Agency (NZTA) will be informed of the restrictions in accordance with the requirements of the Heavy Motor Vehicles Regulations 1974.

FINANCIAL IMPLICATIONS

6. The cost of these weight and speed restrictions inclusive of engineering, newspaper advertising costs and the manufacturing and installation of signage (where necessary) is approximately \$15,000.

Do the Recommendations of this Report Align with 2009-19 LTCCP budgets?

7. Costs associated with the restrictions primarily relate to new signage and will be funded through the LTCCP budget for bridge renewals. It is noted that signs have previously been installed on bridges where the restriction is a result of earthquake damage.

LEGAL CONSIDERATIONS

8. Regulation 11(3) of the New Zealand Government Heavy Motor Vehicles Regulations 1974 empowers the Council to impose weight and speed restrictions on Council road bridges.
9. Regulation 11(13) of the New Zealand Government Heavy Motor Vehicles Regulations 1974 states that any weights or speeds limit fixed on a bridge by the road controlling authority shall remain in place (unless revoked or amended sooner) for no longer than is required and for a maximum period of 12 months.
10. Regulation 11(5) and 11(7) of the New Zealand Government Heavy Motor Vehicles Regulations 1974 require public notification of bridge weight and speed restrictions through a local newspaper, deemed in this instance to be "The Press". The restrictions become effective upon public notification.

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 1. 11. 2012

4 Cont'd

11. Regulation 11(13) of the New Zealand Government Heavy Motor Vehicles Regulations 1974 requires that Central Government is informed of restrictions being implemented via the New Zealand Transport Agency (NZTA) the details per a legal gazetting process.

Have you considered the legal implications of the issue under consideration?

12. As above.

ALIGNMENT WITH LTCCP AND ACTIVITY MANAGEMENT PLANS

13. Not applicable.

Do the recommendations of this report support a level of service or project in the 2009-19 LTCCP?

14. Not applicable.

ALIGNMENT WITH STRATEGIES

15. Not applicable.

Do the recommendations align with the Council's strategies?

16. Not applicable.

CONSULTATION FULFILMENT

17. On approval, the restrictions are required to be notified within a local newspaper to have effect. It is proposed that the restrictions are notified within "The Press" on Saturday 10 November 2012 to align with the lapsing of the current restrictions.
18. Following public notification, Council staff will forward the NZTA a copy of the newspaper containing the notification, together with advice that certificates for the restrictions have been obtained from the appointed engineer.

STAFF RECOMMENDATION

It is recommended that the Committee recommends that the Council adopts the weight and speed restrictions to the road bridges as specified within Appendix A of this report.

APPENDIX A – Schedule of Required Weight and Speed Restrictions on Under Strength and Earthquake Damaged Road Bridges

Bridge No.	Bridge name	Name of Road	Weight Restriction		Max Speed Limit (km/h)
			Gross Weight (Max Sum of Axle Weights)	Max Weight on Any One Axle	
R101	Bridge Street	Bridge Street	3,500 kg	-	30
R102	Pages Road	Pages Road	-	-	30
R104	Avondale Road	Avondale Road	-	-	30
R106	Gayhurst Road	Gayhurst Road	3,500 kg	-	30
R107	Swanns Road	Swanns Road	-	-	30
R114	Colombo Street (Avon)	Colombo Street	-	-	30
R115	Armagh Street (Cambridge – Oxford)	Armagh Street	-	-	30
R118	Hereford Street	Hereford Street	-	-	30
R122	Armagh Street (Hagley)	Hagley Park	3,500 kg	-	-
R124	Helmores Lane	Helmores Lane	Closed to vehicular traffic		
R132	Kahu Rd East	Kahu Road East	-	-	30
R137	Poynder Avenue	Poynder Avenue	-	2,000 kg	30
R211	Bowenvale Avenue	Bowenvale Avenue	16,000 kg	8,200 kg	10
R702	Moorhouse Avenue O/B	Moorhouse Avenue	-	-	30
R833	Scruttons Road No 2	Scruttons Road	4,500 kg	2,250 kg	30
R835	Van Asch Street	Van Asch Street	3,500 kg	-	30
A01	Bossu Road	Bossu Road	-	-	10
A23	Robinsons Bay Road / Tizzards Road	Tizzards Road	50 % Class 1	-	10
A25	Tizzards Road 3	Tizzards Road	50 % Class 1	-	10
A26	Tizzards Road 4	Tizzards Road	-	-	10
A27	Tizzards Road 5	Tizzards Road	80 % Class 1	-	10
A32	Takamatua – Frasers 1	Old Le Bons Track	80 % Class 1	-	10
A34	Akaroa Boat Compound 1	Akaroa Boat Compound	30 % Class 1	2,460 kg	10
A36	Akaroa Boat Compound 2	Akaroa Boat Compound	30 % Class 1	2,460 kg	10
A39	Stoney Bay Old Quarry	Stoney Bay Road	-	-	10
A57	School Road, Okains Bay	School House Road	60 % Class 1	5,160 kg	10
A70	Menzies Bay	Menzies Bay Road	3,500 kg	-	10
A84	Holmes Bay Valley Road 3	Holmes Bay Valley Road	50 % Class 1	-	10
A90	French Farm Valley 1	French Farm Valley Road	-	-	10
A91	French Farm Winery	French Farm Valley Road	-	-	10
A93	Childrens Bay	Childrens Bay Road	3,500 kg	-	10
A99	Rue Jolie North 1	Rue Jolie	3,500 kg	-	10
A100	Rue Jolie North 2	Rue Jolie	70 % Class 1	6,000 kg	10

**ATTACHMENT 1 TO CLAUSE 4
ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 1. 11. 2012**

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Bridge No.	Bridge name	Name of Road	Weight Restriction		Max Speed Limit (km/h)
			Gross Weight (Max Sum of Axle Weights)	Max Weight on Any One Axle	
M19	Wharf Road 2	Wharf Road	3,500 kg	-	10
W10	Okuti Valley 8	Okuti Valley Road	-	-	10
W11	Reynolds Valley Road	Reynolds Valley Road	90 % Class 1	-	30
W12	Wrights Road	Wrights Road	3,500 kg	-	10
W12A	Wrights Road 2	Wrights Road	3,500 kg	-	10
W55	Withells Road	Withells Road	-	-	10

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE 1. 11. 2012**5. RESOLUTION TO EXCLUDE THE PUBLIC**

Attached.

1. 11. 2012

ENVIRONMENT AND INFRASTRUCTURE COMMITTEE**RESOLUTION TO EXCLUDE THE PUBLIC**

Section 48, Local Government Official Information and Meetings Act 1987.

I move that the public be excluded from the following parts of the proceedings of this meeting, namely item #.

The general subject of each matter to be considered while the public is excluded, the reason for passing this resolution in relation to each matter and the specific grounds under Section 48(1) of the Local Government Official Information and Meetings Act 1987 for the passing of this resolution are as follows:

	GENERAL SUBJECT OF EACH MATTER TO BE CONSIDERED	REASON FOR PASSING THIS RESOLUTION IN RELATION TO EACH MATTER	GROUND(S) UNDER SECTION 48(1) FOR THE PASSING OF THIS RESOLUTION
PART A #.	FERRYMEAD BRIDGE UPDATE) GOOD REASON TO) WITHHOLD EXISTS) UNDER SECTION 7	SECTION 48(1)(a)

This resolution is made in reliance on Section 48(1)(a) of the Local Government Official Information and Meetings Act 1987 and the particular interest or interests protected by Section 6 or Section 7 of that Act which would be prejudiced by the holding of the whole or relevant part of the proceedings of the meeting in public are as follows:

ITEM #.	REASON UNDER ACT	SECTION	PLAIN ENGLISH REASON	WHEN REPORT CAN BE RELEASED
#.	Prejudice commercial position	7(2)(b)(ii)	Commercial negotiations with contractor are not finalised. Undertaken.	Outcome of report can be released after commercial discussions finalised with contractor.
#.	Legal professional privilege	7(2)(g)	Insurance negotiations and settlement discussions are subject to legal professional privilege between solicitors for the Council and solicitors for insurer.	Items subject to legal professional privilege not to be released (to be removed from report prior to its release).
#.	Commercial negotiations	7(2)(i)	The Council (in junction with its solicitors) will be entering into commercial negotiations around the settlement of the claim for the Ferrymead Bridge arising from the February 2011 earthquake events.	Commercial negotiations around settlement of the Ferrymead Bridge claim not to be released (to be removed from report prior to its release).

Chairperson's

Recommendation: That the foregoing motion be adopted.

Note

Section 48(4) of the Local Government Official Information and Meetings Act 1987 provides as follows:

- “(4) Every resolution to exclude the public shall be put at a time when the meeting is open to the public, and the text of that resolution (or copies thereof):
- (a) Shall be available to any member of the public who is present; and
 - (b) Shall form part of the minutes of the local authority.”