

Report No:	RESC11-12-06
File No:	
Date:	28 November 2011
<i>Information Only – no decision required</i>	

REPORT SUMMARY

Report to: Engineering Services Committee
Meeting Date: 8 December 2011
Report Author Jeff Cuthbertson, Utilities Asset Manager
Subject: **Utilities Report**

EXECUTIVE SUMMARY

This report provides a summary of the Utilities activities for September-October 2011.

Overall the contractor Downer performed well and undertook all proactive, routine and non-routine maintenance on the water/wastewater treatment plants, pumpstations, reservoir sites and stormwater assets as scheduled.

In solid waste operations, contractors are performing well, with volumes to landfill consistent with forecasts and comparable to actual quantities delivered at the same time last year.

Capital projects are generally on track.

RECOMMENDATION/S

That the report be received.

DRAFT RESOLUTION

THAT the Engineering Services Committee receives the Utilities Report, RESC11-12-06.

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1. Utilities General

- 1.1 Downer undertook all proactive, routine and non-routine network maintenance on the water and wastewater treatment plants, pumpstations, reservoir sites and stormwater assets as scheduled and required within their programme.
- 1.2 MWH carried out audits across all areas of the utilities network on both ongoing and completed work. In the majority of cases Downer have performed well and achieved their performance-based payments.
- 1.3 Downer continues to perform well on the general reactive and proactive work undertaken within the contract as they have moved into the second quarter of the 2011/12 financial year. The information provided below indicates that the contractor continues to maintain the assets to a high standard.

Performance Standards - Contract 688 – 2011 – 2012												
	July 2011	Aug 2011	Sept 2011	Oct 2011	Nov 2011	Dec 2011	Jan 2012	Feb 2012	Mar 2012	April 2012	May 2012	June 2012
Contract Management	■	■	■									
Water Supply Network	■	■	■									
Wastewater Network	■	■	■									
Stormwater Network	■	■	■									

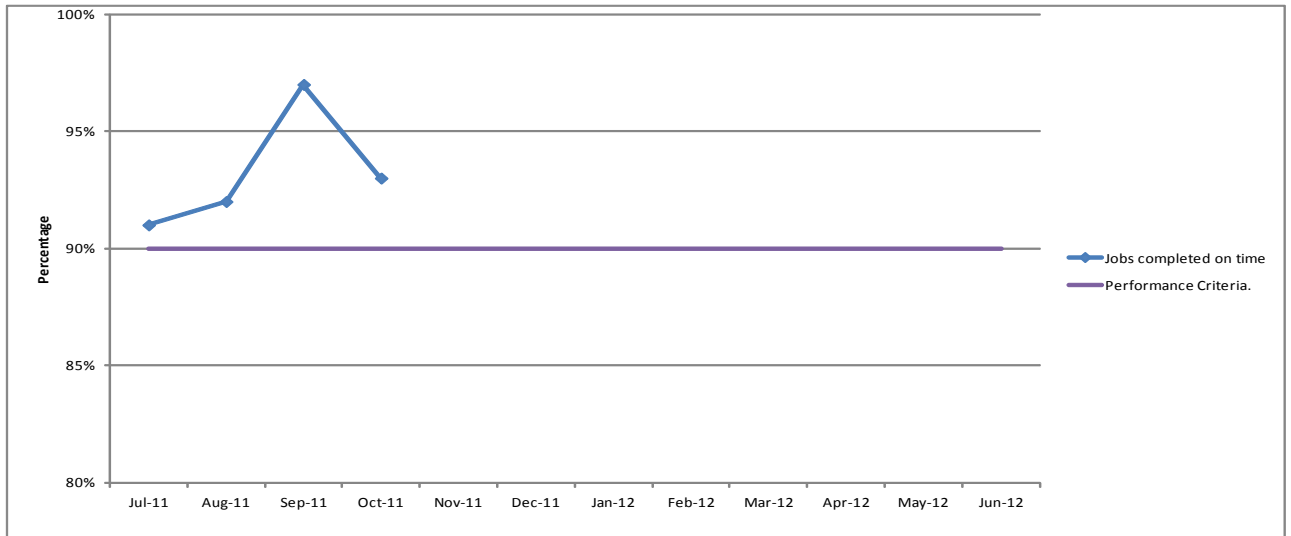
Key: ■ Passed appropriate Performance Standard in accordance with C688
 ■ Not achieved appropriate Performance Standard in accordance with C688

1.4 Customer Services - Job Completion

Targets and requirements under Contract 688 are for the contractor to achieve 90% or above for completion of allocated jobs on time. The contractor has achieved 97% for September and 93% for October 2011.

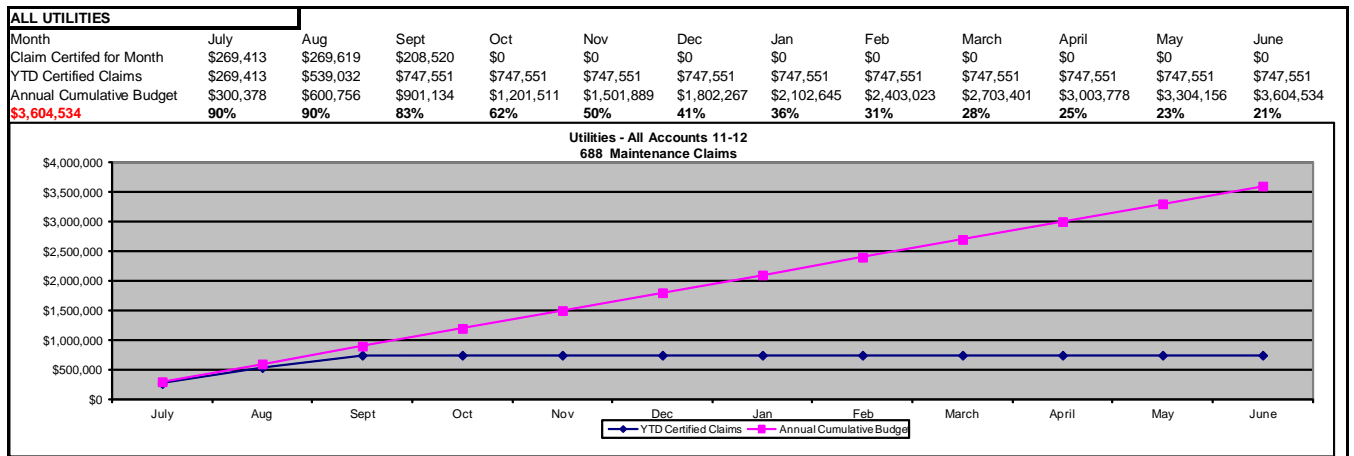
Contract 688 Performance Measurement scores achieved July 2011 to June 2012 - Jobs completed on time												
	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
Jobs completed on time	91%	92%	97%	93%								
Performance Criteria	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%

Tasman District Councils' customer service job completion on time target = minimum of 90%



1.5 Financial Performance

As shown in the graph below, the overall Utilities expenditure is only available up to the end of September 2011 as the final October costs are still being finalised.



2. WASTEWATER NETWORKS

2.1 Operations and Maintenance

The majority of the wastewater networks have performed well during the last reporting period and with ongoing periods of rain, particularly in October, the levels of natural groundwater have resulted in some inflow and infiltration at treatment plants.

2.2 During this period environmental and performance monitoring was routinely undertaken at all Tasman District Council operated Wastewater Treatment Plants (WWTPs).

2.3 The wastewater reticulation system has on the whole performed well with the majority of pipe breaks and or blockages being minor.

2.4 Wastewater Exceptions

As the table below indicates a large proportion of the sewer pipe breaks and blockages occurred in Richmond and Motueka and were unrelated.

Date	Location	What	Why	Remedial action
07 Sep	Motueka Airport	Blocked sewer line	Issue raised by Nelmac	Attended and remedied by Downer
09 Sep	Woodlands Avenue, Motueka	Pump blockage	Blocked by rags	Unblocked by contractor
09/15 Sep	Trewavas Street, Motueka	Pump and pipework blocked	Blocked by rags	Unblocked by contractor
19 Sep	Main Pumpstation, Brightwater	Partial blockage	Blocked by rags	Unblocked by contractor
23 Sep	Thorp Street, Motueka	Rising Main damaged by contractor	Road excavations	Attended and repaired by Council Contractor
28 Sep	5 Bayview Road, Kaiteriteri	Odour Complaint		Further investigation required
28 Sep	65A Oxford Street, Richmond	Blockage of pipe	Sewer lateral incomplete	Sewer lateral reconnected
03 Oct	181 Hill Street, Beach Road, 24 McPherson Street, 8 Staig Street, Richmond	Sewer Overflow	Extreme rainfall event	Overflow cleared, site disinfected
04 Oct	8A Darcy Street, Richmond	Sewer overflow	Rainfall event	Blockage cleared by contractor, the overflow volume unknown
07 Oct	Hotham Street Pumpstation, Murchison	Odour Complaint		Further investigation required
10 Oct	26 Hotham Street, Murchison	Odour complaint	Due to upgrade work	Newly installed vent to be capped

2.5 Various minor operational improvements have been achieved at the Motueka WWTP over the past couple of months. These include provision of an emergency overflow between the pond and the wetlands to prevent any uncontrolled discharges to the estuary area, repairs to the existing jetty, and improvements to the pond outlet screen.

2.6 During a recent heavy rain event, a number of manhole covers were dislodged from the wastewater reticulation network in the Lower Beach Road/Fittal Street area of Richmond. Downer has now been issued with an instruction to replace these manholes with lockable covers to prevent further issues of this nature. A separate report on manhole lid safety will be presented at this meeting.

2.7 Wastewater Treatment Plant Compliance

2.8 During September-October environmental and performance monitoring was routinely undertaken at all Council WWTPs.

2.9 The table below indicates whether full compliance with resource consent conditions was achieved at each WWTP. Where full compliance was not achieved, the likely factors contributing to the non-compliance event are discussed below.

WWTP	Compliance	If “no”, What	Why	Remedial Action
Collingwood	No	<ul style="list-style-type: none"> 3-5 Oct approx 510m³ of wastewater discharged with partial UV treatment 15 Oct approx 15m³ of wastewater discharged with partial UV treatment 	<ul style="list-style-type: none"> Heavy rain, high flows, UV electrical issues 	<ul style="list-style-type: none"> Compliance and shellfish operators notified Automated valve to shut off flow during power/UV outages to be installed UV system repaired
Motueka	Yes			
Murchison	Yes			
St Arnaud	Yes			
Takaka	Yes			
Tapawera	Yes			
Upper Takaka	No	<ul style="list-style-type: none"> High flows to WWTP above consent limit 	<ul style="list-style-type: none"> High Rainfall 	<ul style="list-style-type: none"> Compliance notified Report accepted by Golden Bay Community Board. Steps to address private laterals infiltration underway

2.10 Capital Projects

Sewer renewal contracts for Motueka are nearly complete. Works through Lowe Street and north along High Street have the potential to incur additional pavement repairs and options are being worked through. However these are likely to delay the completion date for this portion of work. The sewer renewals (Contract 846) along York Street and Boyce Street are due for completion this week. Moffat Street is likely to commence early in 2012.

2.11 The contract for the Murchison Wastewater Pumpstation Upgrade is almost complete. The upgraded Hotham Street and Waller Street pumpstations have undergone commissioning and are now in a 21-day testing period. The rising main replacement of approximately 120m across the Matakītaki Bridge is underway and is due to be complete by mid-December.

2.12 The Pohara Sewer Gravity Main Upgrade contract has been completed and Ching Contracting have been awarded Practical Completion.

2.13 Mapua Wharf Wastewater Pumpstation Upgrade – Tenders for the contract closed on Wednesday 19 October and submissions have undergone evaluation. A tender recommendation is with the Tenders Committee for assessment.

2.14 Fulton Hogan has completed the replacement of the discharge drainage at the Murchison WWTP and practical completion has been granted.

3. WATER NETWORKS

3.1 Operations and Maintenance

The majority of the urban water supply networks have performed well.

3.2 Downers have installed seismic valves and associated pipework and chambers offline at the Valhalla reservoir site as part of improvement works under the 2011/2012 renewals programme and are due to complete the connection.

3.3 Planned improvements to the Pohara water reservoirs are being priced by Downer. The proposed upgrade will provide additional storage at the site by utilising the existing on-site tanks more efficiently.

3.4 MWH and Council staff attended a meeting of the Dovedale Rural Water Supply Committee. Committee members expressed their appreciation on the level of information received in relation to financial, operational and proposed upgrades on the network.

3.5 The 150 mm water meter at Oakwoods in Queen Street Richmond was renewed and upgraded to include a strainer, combination meter and an RPZ Backflow preventer. The assembly is above ground and was installed after consultation with the manager of Oakwoods. The work includes a link to the AC main in Queen Street which provides additional security of supply to Oakwoods as well as potential benefit to other segments of the Council's reticulation.

3.6 Water supply exceptions are noted in the table below:

Date	Location	What	Why	Remedial action
23 Sep	20 Hillplough Heights	Pressure fluctuations	House elevation too high for reliable direct supply	Pipe upgrade planned for 2013/14.
5 Oct	Upper Takaka	Low reservoir levels after heavy rain	UV unit fault, was bypassed to allow reservoir to fill	Boil water notice issued, faulty UV unit repaired
5 Oct	Dovedale	Positive E.Coli sample at treatment plant	Chlorine pump fault	Chlorine pump removed and repaired, consumers reminded of boil water notice

3.7 Water service connections were as follows:

- one in Mapua
- two in Richmond

3.8 Capital Projects

Land negotiations for the Richmond East Reservoir and pipework have been successful. Contract documents for the reservoir site and access road are being prepared and it is intended that the earthworks be undertaken this financial year. The resource consent application is being processed and a decision is expected within the coming weeks.

3.9 Investigation work on the proposed site for the Richmond Water Treatment Plant has been completed. Consultation with major water users about the proposed changes to water consistency is also complete. Detailed design continues on the pipe reconfiguration and treatment process.

3.10 Dovedale Pipeline Renewals – a total length of approximately 1900m, in three separate sections of pipeline, have been renewed in 32mm OD, MDPE PN16 pipe, two in Blackbird Valley and one at Jacobs Ladder.

4. STORMWATER NETWORKS

4.1 Operations and Maintenance

Following a relatively dry July and August, some significant rain events occurred in September and October. Precautionary storm checks were undertaken as required. A stormwater manhole lid near Jubilee Park was strapped down as a precaution. The Motueka stormwater floodgates were operated on numerous occasions to enable Council staff and others to undertake work related to a Keep Motueka Beautiful project.

4.2 Routine maintenance undertaken on drains throughout the region has been to an acceptable standard. The contractor will focus attention on controlling vegetation growth prior to Christmas, to ensure assets are suitably maintained.

4.3 Capital Projects

Ruby Bay Stormwater (Tait Street and Stafford Drive) – Ching Contracting continue to make steady progress on this contract. The works are expected to be completed by mid-December.

4.4 Kotare Place Stormwater Upgrade project – This tender was awarded to CJ Industries and work has now commenced on site. This contract is expected to be completed by mid-December.

5. TELEMETRY

5.1 Analogue telemetry – the network has performed well over this reporting period.

5.2 The base station has operated well over the past six weeks. Server software has undergone an operating system upgrade.

5.3 New digital sites are now on-line in Murchison in conjunction with wastewater pumpstation upgrades at Hotham and Waller Streets. The sites are being monitored throughout a 21-day operational test period.

5.4 Communication faults occurred at the St Arnaud Kerr Bay pumpstation site on 16/17 October. One fault was due to a hardware issue with the radio, which has since been rectified, and the other was due to public interference with the aerial. The site remained fully operational during the telemetry faults.

6. SOLID WASTE

6.1 Kerbside Recycling and Bag Collection

Management of kerbside operations continues at a high level of performance, with consistently efficient management of customer enquiries. Kerbside recycling quantities have recently been decreasing but quantities of exported material have increased – which appears to indicate an increasing use of drop-off facilities at Resource Recovery Centres.

6.2 Staff will be working with the contractor over the upcoming weeks to prepare for the traditionally busy summer period.

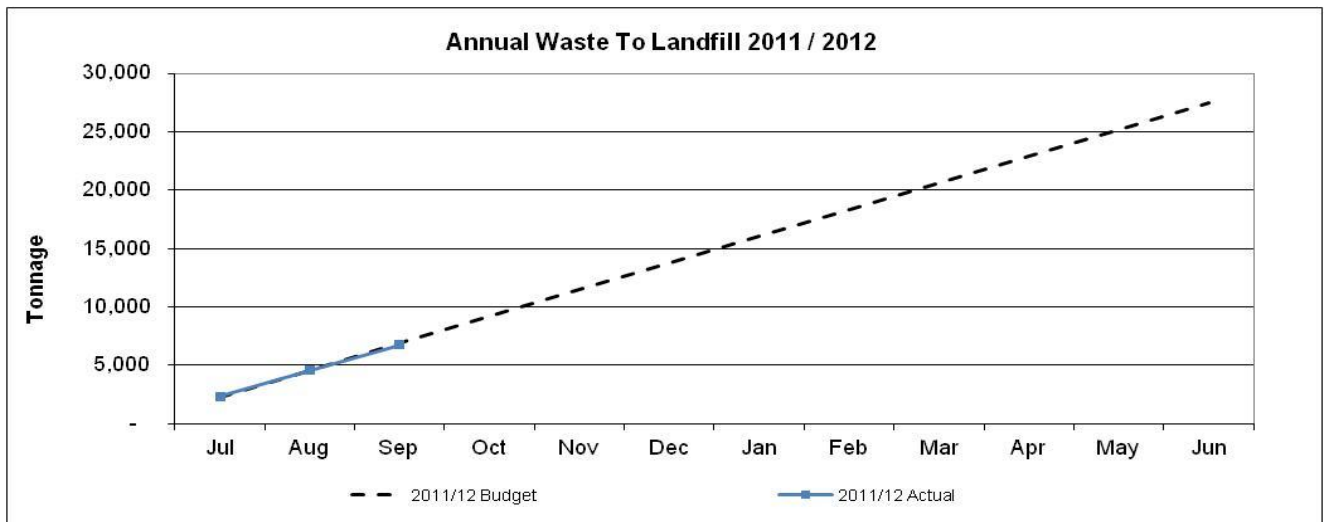
6.3 A condition assessment of the four remaining compactor bins (used at Richmond and Takaka) has indicated significant repairs and maintenance are required. Three of the bins are 26 years old and the assessment concluded that replacement will be more cost-effective than performing ongoing repairs. Council is working with the compactor and bin supplier to negotiate purchase of four additional bins.

6.4 Tenders for further work scheduled at Mariri have been advertised in November and are undergoing evaluation. The works include the development of a recycling drop-off area on the lower section of the site. This work will separate recycling and refuse drop-off zones and is expected to improve waste diversion and safety for site users.

6.7 Eves Valley Landfill

Preliminary data for the first quarter of the year indicate landfill tonnages at Eves Valley are on or just below target for the year, and tracking very closely with the same time last year

Month	This Month 2011	Equivalent Month Last Year	Year to Date	Same Time Last Year	Reduction - Increase
September	2,194	2,168	6,730	6,526	3.1%



6.8 Stormwater upgrade works have been completed at the landfill site and appear to be performing well, including during periods of heavy rain. A flocculant system to increase sediment capture is programmed for trial over the coming six months.

6.9 Improvements are also scheduled for the controls of the leachate collection system. Recent improvements have included installation of air-valves and the remaining work is scheduled for completion prior to January.

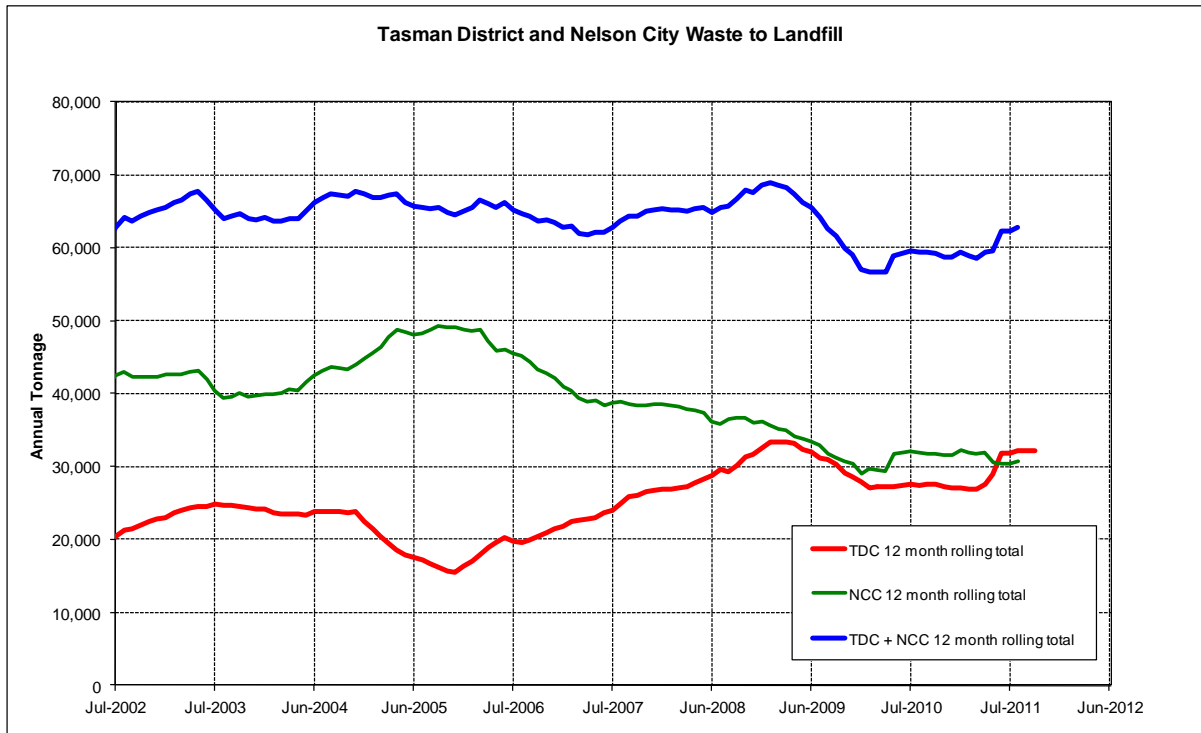
6.10 Solid Waste Operations - Procurement

Council's main solid waste operations (kerbside collections, RRC operations, refuse haulage and landfill operations) are contracted out. Each of these contracts conclude on 30 September 2012 although the landfill operations and refuse haulage contract has an option to be extended for two further one-year periods.

6.11 With Council's Joint Waste Management and Minimisation Plan scheduled to be released, it is likely to be suboptimal to procure contracts for this work over the next six months. Council is planning to open discussions with contractors to discuss 12- to 24-month extensions of existing contracts, and to also seek expressions of interest from the market for these operations. A report with recommendations is to be presented to this meeting.

6.12 Regional Waste Minimisation

Members of the Joint Waste Working Party recently completed a draft Joint Waste Management and Minimisation Plan (JWMMP) for Nelson City and Tasman District Councils. The proposed JWMMP has been addressed in a separate report.



7. TENDERS

7.1 Tenders recently awarded are as below.

No.	Contract name	No. of tenders	Successful tenderer	Amount	Highest amount	Council estimate	Budget for this item	Comment
848	Kotare Place Stormwater Upgrade	6	CJ Industries Ltd	\$62,764.75	\$106,517.80	\$84,215.00	\$275,043.00	Tender accepted

8. RECOMMENDATION

8.1 That the report be received.

9. DRAFT RESOLUTION

9.1 THAT the Engineering Services Committee receives the Utilities Report RESC11-12-06.