



17th August 2018

## **NOTICE OF MEETING OF THE COUNCIL**

The meeting of the Council will be held at

RIVERINA WATER COUNTY COUNCIL CHAMBERS,  
91 HAMMOND AVENUE, WAGGA WAGGA

on

**WEDNESDAY, 22<sup>nd</sup> AUGUST 2018 at 9.30 am**

and your attendance is requested.

**A presentation by Leigh Mawby from WaterAid will commence at 9.30 am**

Yours sincerely

A handwritten signature in black ink, appearing to read "A Crakanthorp", written in a cursive style.

Andrew Crakanthorp  
GENERAL MANAGER



# AGENDA

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# **GENERAL MANAGER'S REPORT TO THE COUNCIL**

17th August 2018

The Chairperson and Councillors:

## **1. INVESTMENT REPORTS**

***RECOMMENDED*** that the report detailing Council's external investments for the months of June and July 2018 be received.

- 
- *Investments – June 2018*
  - *Investments – July 2018*

## Monthly Investment Report as at 30/06/18

### a) Council's Investments as at 30/06/18

Investment	Inception Date	Term (Days)	Maturity Date	S&P Rating	Interest Rate (%)	Performance Benchmark	Benchmark Rate (%)	Percentage of Portfolio	Principal Value	Market Value
<b>Term Deposits</b>										
AMP	21/06/2018	210	17/01/19	A-1	2.85	BBSW	1.79	10.208%	\$2,500,000.00	\$2,500,000.00
Defence Bank	1/05/2018	90	30/07/18	A-2	2.50	BBSW	1.88	6.125%	\$1,500,000.00	\$1,500,000.00
Defence Bank	11/04/2018	90	10/07/18	A-2	2.60	BBSW	1.88	10.208%	\$2,500,000.00	\$2,500,000.00
National Australia Bank	11/04/2018	90	10/07/18	A-1+	2.55	BBSW	1.88	6.125%	\$1,500,000.00	\$1,500,000.00
Beyond Bank	13/06/2018	90	11/09/18	A-2	2.60	BBSW	1.88	6.125%	\$1,500,000.00	\$1,500,000.00
AMP	15/06/2018	242	12/02/19	A-1	2.80	BBSW	1.79	4.083%	\$1,000,000.00	\$1,000,000.00
Bank of Queensland	5/04/2018	90	04/07/18	A-2	2.50	BBSW	1.88	8.166%	\$2,000,000.00	\$2,000,000.00
National Australia Bank	7/05/2018	88	03/08/18	A-1+	2.58	BBSW	1.88	4.083%	\$1,000,000.00	\$1,000,000.00
National Australia Bank	20/06/2018	210	16/01/19	A-1+	2.85	BBSW	1.79	14.291%	\$3,500,000.00	\$3,500,000.00
National Australia Bank	10/04/2018	90	09/07/18	A-1+	2.55	BBSW	1.88	8.166%	\$2,000,000.00	\$2,000,000.00
								<b>77.58%</b>	<b>\$19,000,000.00</b>	<b>\$19,000,000.00</b>
<b>Cash Deposit Account</b>										
T Corp				A-1+	2.04	Cash Rate	1.50	9.30%	\$2,276,478.47	\$2,276,478.47
AMP				A-1	1.80	Cash Rate	1.50	13.125%	\$3,214,319.72	\$3,214,319.72
								<b>22.42%</b>	<b>\$5,490,798.19</b>	<b>\$5,490,798.19</b>
<b>TOTAL INVESTMENTS</b>								<b>100.00%</b>	<b>\$24,490,798.19</b>	<b>\$24,490,798.19</b>
Cash at Bank										\$1,654,560.70
<b>TOTAL FUNDS</b>										<b>\$26,145,358.89</b>

**b) Application of Investment Funds**

Restricted Funds	Description	Value
Externally Restricted	LIRS Loan Funds	\$0.00
		<u>\$0.00</u>
Internally Restricted	Employee Leave Entitlements (50% of ELE)	\$1,856,197.28
	Asset Replacement	\$1,858,430.25
	Loan Funds	\$0.00
	Sales Fluctuation	\$5,000,000.00
		<u>\$8,714,627.53</u>
Unrestricted Funds		\$17,430,731.36
<b>TOTAL FUNDS</b>		<b>\$26,145,358.89</b>

\* Externally & Internally Restricted Reserve figures are subject to final adjustment and external audit at 30 June each year.

**CERTIFICATE**

I hereby certify that all the above investments have been made in accordance with the provision of Section 625 of the Local Government Act 1993 and the regulations thereunder.



**E Tonacia**  
**MANAGER CORPORATE SERVICES**

## Monthly Investment Report as at 31/7/18

### a) Council's Investments as at 31/7/18

Investment	Inception Date	Term (Days)	Maturity Date	S&P Rating	Interest Rate (%)	Performance Benchmark	Benchmark Rate (%)	Percentage of Portfolio	Principal Value	Market Value
<b>Term Deposits</b>										
AMP	21/06/2018	210	17/01/19	A-1	2.85	BBSW	1.86	10.206%	\$2,500,000.00	\$2,500,000.00
Defence Bank	30/07/2018	274	30/04/19	A-2	2.85	BBSW	1.86	6.124%	\$1,500,000.00	\$1,500,000.00
Defence Bank	10/07/2018	184	10/01/19	A-2	2.85	BBSW	1.83	10.206%	\$2,500,000.00	\$2,500,000.00
National Australia Bank	10/07/2018	90	08/10/18	A-1+	2.75	BBSW	1.90	6.124%	\$1,500,000.00	\$1,500,000.00
Beyond Bank	13/06/2018	90	11/09/18	A-2	2.60	BBSW	1.90	6.124%	\$1,500,000.00	\$1,500,000.00
AMP	15/06/2018	242	12/02/19	A-1	2.80	BBSW	1.86	4.082%	\$1,000,000.00	\$1,000,000.00
Bank Australia	5/07/2018	365	05/07/19	A-2	3.00	BBSW	1.86	8.165%	\$2,000,000.00	\$2,000,000.00
National Australia Bank	7/05/2018	88	03/08/18	A-1+	2.58	BBSW	1.90	4.082%	\$1,000,000.00	\$1,000,000.00
National Australia Bank	20/06/2018	210	16/01/19	A-1+	2.85	BBSW	1.86	14.288%	\$3,500,000.00	\$3,500,000.00
National Australia Bank	9/07/2018	90	07/10/18	A-1+	2.70	BBSW	1.90	8.165%	\$2,000,000.00	\$2,000,000.00
								<b>77.56%</b>	<b>\$19,000,000.00</b>	<b>\$19,000,000.00</b>
<b>Cash Deposit Account</b>										
T Corp				A-1+	1.99	Cash Rate	1.50	9.31%	\$2,281,360.31	\$2,281,360.31
AMP				A-1	1.80	Cash Rate	1.50	13.122%	\$3,214,319.72	\$3,214,319.72
								<b>22.44%</b>	<b>\$5,495,680.03</b>	<b>\$5,495,680.03</b>
<b>TOTAL INVESTMENTS</b>								<b>100.00%</b>	<b>\$24,495,680.03</b>	<b>\$24,495,680.03</b>
Cash at Bank										\$1,401,485.80
<b>TOTAL FUNDS</b>										<b>\$25,897,165.83</b>

**b) Application of Investment Funds**

Restricted Funds	Description	Value
Externally Restricted	LIRS Loan Funds	\$0.00
		<u>\$0.00</u>
Internally Restricted	Employee Leave Entitlements (50% of ELE)	\$1,856,197.28
	Asset Replacement	\$1,858,430.25
	Loan Funds	\$0.00
	Sales Fluctuation	\$5,000,000.00
		<u>\$8,714,627.53</u>
Unrestricted Funds		\$17,182,538.30
<b>TOTAL FUNDS</b>		<b>\$25,897,165.83</b>

\* Externally & Internally Restricted Reserve figures are subject to final adjustment and external audit at 30 June each year.

**CERTIFICATE**

I hereby certify that all the above investments have been made in accordance with the provision of Section 625 of the Local Government Act 1993 and the regulations thereunder.



**E Tonacia**  
**MANAGER CORPORATE SERVICES**

## 2. FINANCIAL STATEMENTS – FINANCIAL POSITION AS AT 30TH OF JUNE 2018

**RECOMMENDED** that the unaudited statements of the financial position as at 30<sup>th</sup> June 2018 be received.

The unaudited statements of RWCC Financial Position as at 30<sup>th</sup> June 2018 are submitted for examination by Council.

The anticipated operating result for 2017/2018 is a surplus of \$11,710,000. The original estimate was for a surplus of \$4,412,000.

The items of note in the final operating result variance from Council's original budget are:

	\$ ('000)
Additional Water Sales (due to dry weather)	1,976
Additional Interest Revenue (due to cash on hand from unfinished Water Treatment Plant project & additional water sales)	395
Additional Other Revenue (due to water licence temporary allocation & reversal of impairment loss on water licence asset)	156
Additional Operational Grants (due to Local Infrastructure Renewal Scheme Subsidy Claim)	395
Additional Capital Contributions (due to additional subdivision releases not anticipated)	657
Reduction in Depreciation (due to asset revaluation being finalised after 2017/18 budget was finalised)	1,054
Reduction of Material & Contracts (due to works focused on CAPEX projects instead of operational maintenance)	1,287

The draft primary statements follow.

- ***Financial Statements 2017/2018 – primary statements following***

# Riverina Water County Council

GENERAL PURPOSE FINANCIAL STATEMENTS

for the year ended 30 June 2018

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**"to provide our community with safe reliable  
water at the lowest sustainable cost"**



# Riverina Water County Council

## Income Statement

for the year ended 30 June 2018

Original unaudited budget 2018	\$ '000	Notes	Actual 2018	Actual 2017
<b>Income from continuing operations</b>				
<b>Revenue:</b>				
5,016	Rates and annual charges	3a	5,271	5,221
20,901	User charges and fees	3b	22,877	21,412
200	Interest and investment revenue	3c	595	522
125	Other revenues	3d	281	492
207	Grants and contributions provided for operating purposes	3e,f	602	648
2,662	Grants and contributions provided for capital purposes	3e,f	3,319	2,392
<b>Other income:</b>				
–	Net gains from the disposal of assets	5	–	78
–	Reversal of revaluation decrements / impairment of IPP&E previously expensed	4d	25	75
29,111	<b>Total income from continuing operations</b>		<b>32,970</b>	<b>30,840</b>
<b>Expenses from continuing operations</b>				
8,330	Employee benefits and on-costs	4a	7,942	8,127
745	Borrowing costs	4b	653	163
3,489	Materials and contracts	4c	2,202	2,026
7,120	Depreciation and amortisation	4d	6,066	5,979
5,015	Other expenses	4e	4,389	3,239
–	Net losses from the disposal of assets	5	8	–
24,699	<b>Total expenses from continuing operations</b>		<b>21,260</b>	<b>19,534</b>
<b>4,412</b>	<b>Operating result from continuing operations</b>		<b>11,710</b>	<b>11,306</b>
<b>4,412</b>	<b>Net operating result for the year</b>		<b>11,710</b>	<b>11,306</b>
4,412	Net operating result attributable to Council		11,710	11,306
1,750	Net operating result for the year before grants and contributions provided for capital purposes		<b>8,391</b>	<b>8,914</b>

## Riverina Water County Council

Statement of Comprehensive Income  
for the year ended 30 June 2018

\$ '000	Notes	2018	2017
<b>Net operating result for the year</b> (as per Income Statement)		<b>11,710</b>	<b>11,306</b>
<b>Other comprehensive income:</b>			
Amounts that will not be reclassified subsequently to the operating result			
Gain (loss) on revaluation of IPP&E	9a	5,835	3,815
Gain (loss) on revaluation of intangible assets		600	–
<b>Total items which will not be reclassified subsequently to the operating result</b>		<b>6,435</b>	<b>3,815</b>
<b>Total other comprehensive income for the year</b>		<b>6,435</b>	<b>3,815</b>
<b>Total comprehensive income for the year</b>		<b>18,145</b>	<b>15,121</b>

## Riverina Water County Council

Statement of Financial Position  
as at 30 June 2018

\$ '000	Notes	2018	2017
<b>ASSETS</b>			
<b>Current assets</b>			
Cash and cash equivalents	6a	19,135	21,246
Investments	6b	7,000	–
Receivables	7	3,114	3,160
Inventories	8	2,334	2,383
<b>Total current assets</b>		<b>31,583</b>	<b>26,789</b>
<b>Non-current assets</b>			
Infrastructure, property, plant and equipment	9	346,174	335,702
Intangible assets	10	4,300	3,575
<b>Total non-current assets</b>		<b>350,474</b>	<b>339,277</b>
<b>TOTAL ASSETS</b>		<b>382,057</b>	<b>366,066</b>
<b>LIABILITIES</b>			
<b>Current liabilities</b>			
Payables	11	1,018	1,449
Borrowings	11	1,675	1,582
Provisions	12	3,713	3,861
<b>Total current liabilities</b>		<b>6,406</b>	<b>6,892</b>
<b>Non-current liabilities</b>			
Borrowings	11	9,012	10,680
<b>Total non-current liabilities</b>		<b>9,012</b>	<b>10,680</b>
<b>TOTAL LIABILITIES</b>		<b>15,418</b>	<b>17,572</b>
<b>Net assets</b>		<b>366,639</b>	<b>348,494</b>
<b>EQUITY</b>			
Accumulated surplus	13	121,909	110,199
Revaluation reserves	13	244,730	238,295
<b>Total equity</b>		<b>366,639</b>	<b>348,494</b>

## Riverina Water County Council

## Statement of Changes in Equity

for the year ended 30 June 2018

\$ '000	Notes	2018	IPP&E	Total equity	2017	IPP&E	Total equity
		Accumulated surplus	revaluation reserve		Accumulated surplus	revaluation reserve	
<b>Opening balance</b>		110,199	238,295	<b>348,494</b>	98,893	234,480	<b>333,373</b>
Net operating result for the year as reported in the 2017 financial statements		<b>11,710</b>	–	<b>11,710</b>	11,306	–	<b>11,306</b>
<b>Net operating result for the year</b>		<b>11,710</b>	–	<b>11,710</b>	<b>11,306</b>	–	<b>11,306</b>
<b>Other comprehensive income</b>							
– Gain (loss) on revaluation of IPP&E	9a	–	5,835	<b>5,835</b>	–	3,815	<b>3,815</b>
– Gain (loss) on revaluation of intangible assets		–	600	<b>600</b>	–	–	–
<b>Other comprehensive income</b>		–	<b>6,435</b>	<b>6,435</b>	–	<b>3,815</b>	<b>3,815</b>
<b>Total comprehensive income (c&amp;d)</b>		<b>11,710</b>	<b>6,435</b>	<b>18,145</b>	<b>11,306</b>	<b>3,815</b>	<b>15,121</b>
<b>Equity – balance at end of the reporting period</b>		<b>121,909</b>	<b>244,730</b>	<b>366,639</b>	<b>110,199</b>	<b>238,295</b>	<b>348,494</b>

## Riverina Water County Council

## Statement of Cash Flows

for the year ended 30 June 2018

Original unaudited budget 2018	\$ '000	Notes	Actual 2018	Actual 2017
<b>Cash flows from operating activities</b>				
<b>Receipts:</b>				
5,002	Rates and annual charges		5,287	5,224
20,901	User charges and fees		22,822	21,474
229	Investment and interest revenue received		359	550
2,872	Grants and contributions		4,023	3,074
–	Bonds, deposits and retention amounts received		–	39
1,179	Other		2,015	4,184
<b>Payments:</b>				
(7,955)	Employee benefits and on-costs		(8,138)	(8,059)
(3,418)	Materials and contracts		(2,319)	(2,507)
(745)	Borrowing costs		(653)	(163)
–	Bonds, deposits and retention amounts refunded		(13)	–
(5,015)	Other		(6,108)	(3,697)
<b>13,050</b>	<b>Net cash provided (or used in) operating activities</b>	14b	<b>17,275</b>	<b>20,119</b>
<b>Cash flows from investing activities</b>				
<b>Receipts:</b>				
–	Sale of infrastructure, property, plant and equipment		214	452
<b>Payments:</b>				
–	Purchase of investment securities		(7,000)	–
(23,523)	Purchase of infrastructure, property, plant and equipment		(11,025)	(17,716)
<b>(23,523)</b>	<b>Net cash provided (or used in) investing activities</b>		<b>(17,811)</b>	<b>(17,264)</b>
<b>Cash flows from financing activities</b>				
<b>Receipts:</b>				
6,000	Proceeds from borrowings and advances		–	–
<b>Payments:</b>				
(1,626)	Repayment of borrowings and advances		(1,575)	(1,499)
<b>4,374</b>	<b>Net cash flow provided (used in) financing activities</b>		<b>(1,575)</b>	<b>(1,499)</b>
<b>(6,099)</b>	<b>Net increase/(decrease) in cash and cash equivalents</b>		<b>(2,111)</b>	<b>1,356</b>
12,283	Plus: <b>cash and cash equivalents – beginning of year</b>	14a	21,246	19,890
<b>6,184</b>	<b>Cash and cash equivalents – end of the year</b>	14a	<b>19,135</b>	<b>21,246</b>
Additional Information:				
plus:	<b>Investments on hand – end of year</b>	6b	7,000	–
	<b>Total cash, cash equivalents and investments</b>		<b>26,135</b>	<b>21,246</b>

### 3. FINANCIAL STATEMENTS 2017/2018

**RECOMMENDED** that:

- (i) Council's Draft Financial Statements be referred to audit by Council's auditors, Audit Office of New South Wales,
- (ii) Council make a resolution in accordance with section 413 (2c) that the annual financial report is in accordance with:
  - the Local Government Act 1993 (as amended) and the Regulations made there under,
  - the Australian Accounting Standards and professional pronouncements,
  - the Local Government Code of Accounting Practice and Financial Reporting,
  - presents fairly the councils operating results and financial position for the year,
  - accords with Council's accounting and other records, and
  - that Council is not aware of any matter that would render this report false or misleading in any way.
- (iii) That Council adopt the abovementioned Statement and that the Chairman, Councillor and General Manager be authorised to complete the "Statement by Members of the Council" in relation to Council's 2017/18 Financial Statements and Special Purpose Financial Reports and be attached thereto.
- (iv) That Council delegate to the General Manager the authority to "finalise the date" at which the Audit Report and Financial Statements are to be presented to the public.

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Council's Financial Statements and Special Purpose Financial reports for 2017/2018 have been completed and are ready to be forwarded to Council's Auditors.

Under the provisions of Section 412(2c) of the Local Government Act 1993, the Financial Statements and Special Purpose Financial Reports shall be accompanied by a statement made in accordance with a resolution by Council, signed by two Councillors, General Manager and Responsible Accounting Officer along the lines of the recommendation (ii) above.

Following receipt of the Auditor's Report, it will be necessary to give public notice for a period of at least seven (7) days prior to the adoption of the Financial Statements.

It is anticipated that the auditor's report will be submitted to Council's Ordinary Meeting on 24 October 2018. Council's Annual Report for 2017/2018 can be adopted at the same meeting. A copy of the "Statement by Members of the Council" referred above in recommendation (iii) follows:-

- ***Statements by Councillors and Management***

## Riverina Water County Council

### Special Purpose Financial Statements

for the year ended 30 June 2018

### Statement by Councillors and Management

made pursuant to the Local Government Code of Accounting Practice and Financial Reporting

**The attached Special Purpose Financial Statements have been prepared in accordance with:**

- the NSW Government Policy Statement 'Application of National Competition Policy to Local Government',
- the Division of Local Government Guidelines 'Pricing and Costing for Council Businesses – A Guide to Competitive Neutrality',
- the Local Government Code of Accounting Practice and Financial Reporting,
- the NSW Office of Water Best-Practice Management of Water and Sewerage Guidelines.

**To the best of our knowledge and belief, these financial statements:**

- present fairly the operating result and financial position for each of Council's declared business activities for the year, and
- accord with Council's accounting and other records.

**We are not aware of any matter that would render these statements false or misleading in any way.**

**Signed in accordance with a resolution of Council made on 22 August 2018.**

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Clr G Verdon  
Chairperson

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Clr P Funnell  
Councillor

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Mr A Crakanthorp  
General Manager

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Ms E Tonacia  
Responsible accounting officer

## Riverina Water County Council

### General Purpose Financial Statements for the year ended 30 June 2018

### Statement by Councillors and Management made pursuant to Section 413(2)(c) of the *Local Government Act 1993 (NSW)* (as amended)

**The attached General Purpose Financial Statements have been prepared in accordance with:**

- the *Local Government Act 1993 (NSW)* (as amended) and the regulations made thereunder,
- the Australian Accounting Standards and other pronouncements of the Australian Accounting Standards Board
- the Local Government Code of Accounting Practice and Financial Reporting.

**To the best of our knowledge and belief, these financial statements:**

- present fairly the Council's operating result and financial position for the year,
- accord with Council's accounting and other records.

**We are not aware of any matter that would render these statements false or misleading in any way.**

**Signed in accordance with a resolution of Council made on 22 August 2018.**

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Clr G Verdon  
Chairperson

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Clr P Funnell  
Councillor

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Mr A Crakanthorp  
General Manager

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Ms E Tonacia  
Responsible Accounting Officer

#### 4. CAPEX BUDGET RESULT 2017/2018

**RECOMMENDED** that Council receive and note the report on the final Capital Expenditure Budget result for the 2017/18 financial year.

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The following table summarises Council's Capital Expenditure Budget Result for 2017/18: -

- *Capex Budget Result 2017/2018*

**2017/18 CAPITAL EXPENDITURE**

Description	2017/18 Current Budget	Actual	Budget Remaining (excl Committal)
	\$	\$	\$
<b>MANAGEMENT</b>			
<b>LAND &amp; BUILDINGS FOR ADMIN. DEPOTS AND WORKSHOPS</b>			
Administration Office	27,600	6,033	21,567
Depot Buildings	25,252	18,441	6,811
Workshops	5,000	0	5,000
Access, Parking and Landscaping	1,099,658	701,764	397,894
<b>SUB-TOTAL LAND &amp; BUILDINGS FOR ADMIN, DEPOTS &amp; WORKSHOPS</b>	<b>1,157,510</b>	<b>726,238</b>	<b>431,272</b>
<b>PLANT &amp; EQUIPMENT</b>			
IT Equipment	182,500	130,683	51,817
Office Furniture & Equipment	8,000	16,249	-8,249
Working Plant & Vehicle Purchases	975,000	624,715	350,285
Fixed Plant Tools & Equipment	20,000	12,024	7,976
Telemetry & Control Systems Upgrade	150,613	141,144	9,469
Radio Communications Upgrade/Replacements/Improvements	388,225	48,145	340,080
RTUs - New/Additional	15,000	3,089	11,911
RTUs - Replacements/Upgrades	0	180	-180
Energy Efficiency & Cost Minimisation	20,000	20,897	-897
CAD/GIS/Asset Management System	0	2,161	-2,161
Communication Equipment	2,000	1,329	671
<b>SUB-TOTAL PLANT &amp; EQUIPMENT</b>	<b>1,761,338</b>	<b>1,000,616</b>	<b>760,722</b>
<b>TOTAL MANAGEMENT</b>	<b>2,918,848</b>	<b>1,726,855</b>	<b>1,191,993</b>
<b>SOURCES</b>			
Bores-renew/refurbish/decommission	264,504	215,881	48,623
Source Works General Improvements	53,183	40,939	12,244
Switchboards Improvements/Replacements	13,000	9,374	3,626
<b>TOTAL SOURCES</b>	<b>330,687</b>	<b>266,195</b>	<b>64,492</b>
<b>TREATMENT PLANTS</b>			
General Improvements	5,000	158	4,843
Aeration Tower Replacements	25,000	234	24,766
Aeration Tower Covers	107,082	67,510	37,022
Specific Treatment Plant improvements	85,000	75,357	9,643
Treatment Plant refurbishments	7,129,062	2,428,960	2,985,142
Laboratory Facilities Upgrade	45,000	2,060	42,940
Treatment Plant Switchboards/Control Systems Replacement/Upgrade	5,000	274	4,726
<b>TOTAL TREATMENT PLANTS</b>	<b>7,401,144</b>	<b>2,574,553</b>	<b>3,109,081</b>
<b>PUMPING STATIONS</b>			
General Improvements	24,070	4,070	20,000
Magflow Replacements	10,000	11,297	-1,297
Pump Stations Renewal/Refurbish/Upgrade	201,731	179,351	7,282
Pump & Motor Maintenance / Replacements	25,000	14,018	10,982

Description	2017/18 Current Budget	Actual	Budget Remaining (excl Committal)
	\$	\$	\$
Pump Station Switchboards/Control Systems Replacement/Upgrade	75,000	43,905	31,095
<b>TOTAL PUMPING STATIONS</b>	<b>335,801</b>	<b>252,642</b>	<b>68,061</b>
<b>RESERVOIRS</b>			
General Improvements	19,247	7,957	11,290
New/Replacement Reservoirs	3,167,959	1,143,281	1,582,494
Reservoirs - Upgrade Ladders and Access	28,610	7,279	20,293
Reservoir Hatches Magflows	42,000	57,841	-15,841
<b>TOTAL RESERVOIRS</b>	<b>3,257,816</b>	<b>1,216,357</b>	<b>1,598,237</b>
<b>MAINS, SERVICES &amp; METERS</b>			
<b>MAINS</b>			
System Improvements	345,000	320,572	-4,712
Reticulation for Developers (including other extensions)	1,160,000	1,326,128	-171,249
Renew Reticulation Mains	600,000	521,494	68,008
Renew Trunk Mains	2,219,911	1,937,819	277,875
<b>SUB-TOTAL MAINS</b>	<b>4,324,911</b>	<b>4,106,013</b>	<b>169,922</b>
<b>SERVICES</b>			
Service Connections, new including Meters	550,000	588,198	-38,198
Renew Services	130,000	111,420	18,580
<b>SUB-TOTAL SERVICES</b>	<b>680,000</b>	<b>699,618</b>	<b>-19,618</b>
<b>METERS</b>			
Water meters replacement	180,000	183,007	-4,083
Remote metering	25,000	17,058	7,942
Water Filling Stations Upgrade	25,000	12,050	-22,701
<b>SUB-TOTAL METERS</b>	<b>230,000</b>	<b>212,115</b>	<b>-18,842</b>
<b>TOTAL MAINS, SERVICES &amp; METERS</b>	<b>5,234,911</b>	<b>5,017,746</b>	<b>131,462</b>
<b>TOTALS</b>	<b>19,479,207</b>	<b>11,054,347</b>	<b>6,163,327</b>

## 5. REVOTED BUDGET 2018/2019

**RECOMMENDED** that expenditure totalling \$4,931,186 be revoted and included in the 2018/2019 budget.

After reviewing the status of the 2017/2018 Operational Plan with management, it is recommended that \$4,931,186 should be revoted into the 2018/2019 budget.

The items are listed as follows:-

Project/ GL	Description	Revotes
<b>CAPITAL EXPENDITURE</b>		
184	Replace Airconditioning	13,000
50	Computer Server Replacements - Urban	14,000
51	Computer Equipment - Urban	30,000
224	Radio Communication	207,000
229	Humula Well Replacement	79,600
217	Bulgary Aeration Cover	39,220
233	Gardners Crossing Aeration Cover	30,000
137	WTP stage 1 - Urban	2,870,366
99	Urana WTP replacement - Non-Urban	114,000
199	Pump & Motor Maintenance / Replacements - Urban	10,000
150	Shires Reservoir Relocation - Non-Urban	1,493,000
241	Glenoak Res 2 x 4.5ML - investigate, design, land matters	31,000

For the information of Council, the following budget items totalling \$2,825,135 will be carried forward to the 2018/2019 budget. This expenditure was committed to be spent prior to 30 June 2018.

Project/ GL	Description	Carry Fwd
<b>CAPITAL EXPENDITURE</b>		
71	Administration Office	6,850
155	Levee protection stage 2 Hammond Ave - Urban	397,966
51	Computer Equipment - Urban	7,098
54	Routine plant & vehicle replacements	321,988
57	West Wagga WTP & Bores Control System Upgrade	38,126
224	Radio Communication	132,475
137	WTP stage 1 - Urban	1,702,653
99	Urana WTP replacement - Non-Urban	12,307
110	West Wagga Shires pump upgrade - Urban	15,097
150	Shires Reservoir Relocation - Non-Urban	159,956
241	Glenoak Res 2 x 4.5ML - investigate, design, land matters	12,933
167	WFS - Non-Urban	17,686

## 6. OPERATIONAL PLAN – PERFORMANCE TARGETS

**RECOMMENDATION:** That the report detailing progress, as at 30 June 2018, achieved towards the various objectives set out in the 2017/2018 Operational Plan be noted and received.

In accordance with the provisions of Section 407 of the Local Government Act 1993, I report to Council on the progress achieved in the year for the various Key Performance Indicators set out in the 2017/2018 Operational Plan.

### Services

Measure	Key Performance Indicator	Progress to 30 June 2018
Customer Satisfaction Rating	>4 (out of 5)	4.54 (out of 5)
Water Quality Satisfaction	>4 (out of 5)	4.35 (out of 5)

### Asset Replacement

Measure	Key Performance Indicator	Progress to 30 June 2018
Projects completed from Capital Works Program	>85%	By number 86.8%      By budget 74.4%

### Demand Management

Measure	Key Performance Indicator	Progress to 30 June 2018
Peak Day Demand (weekly average)	<65 ML	59.67 ML

### WHS

Objectives	Key Performance Indicator	Progress to 30 June 2018
Number of days lost through injury	< previous period	<b>2017</b> 140 <b>2018</b> 9
Percentage of sick leave hours to ordinary hours worked	<3.5%	3.69%      3.20%
Total hours worked compared to time lost through injury & illness	< previous period	0.85%      0.05%

### Environmental Protection

Key Performance Indicator	Key Performance Indicator	Progress to 30 June 2017
Power used per ML of water produced KWh	< same period last year	<b>2016/2017</b> 818 kwh <b>2017/2018</b> 850 kwh
Power used per ML of water produced \$	< same period last year	\$206      \$209

### Equal Employment Opportunity

Key Performance Indicator	Key Performance Indicator	Progress to 30 June 2017
Number of legitimate EEO complaints resolved	100%	Nil lodged
Percentage of staff returning from parental leave	100%	100%

### Charges and Fees

Key Performance Indicator	Key Performance Indicator	Progress to 30 June 2018
Level of Water Charges overdue compared to water sales for previous 12 months	<5%	1.80%
Level of Sundry Debtor Accounts overdue compared to debtors raised for previous 12 months	<5%	1.87%

## 7. PECUNIARY INTEREST REGISTER-DISCLOSURE OF INTERESTS

**RECOMMENDED** that the information be received and noted.

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Sections 441-448 of the Local Government Act, 1993, specify that returns in relation to disclosures of interest, are to be completed by councillors and designated persons, that is, General Manager and other senior staff of council.

The returns must be completed and lodged with the General Manager within three months after 30th June 2018.

The returns have been issued to each Councillor and designated persons to be completed and lodged with the General Manager by 30 September 2018.

## 8. OVERDUE DEBTORS JUNE 2018

**RECOMMENDED** that the following report on overdue debtors for the period ended 30 June 2018 be received and noted.

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Following are details of balances, along with comparative figures for 30 June 2017.

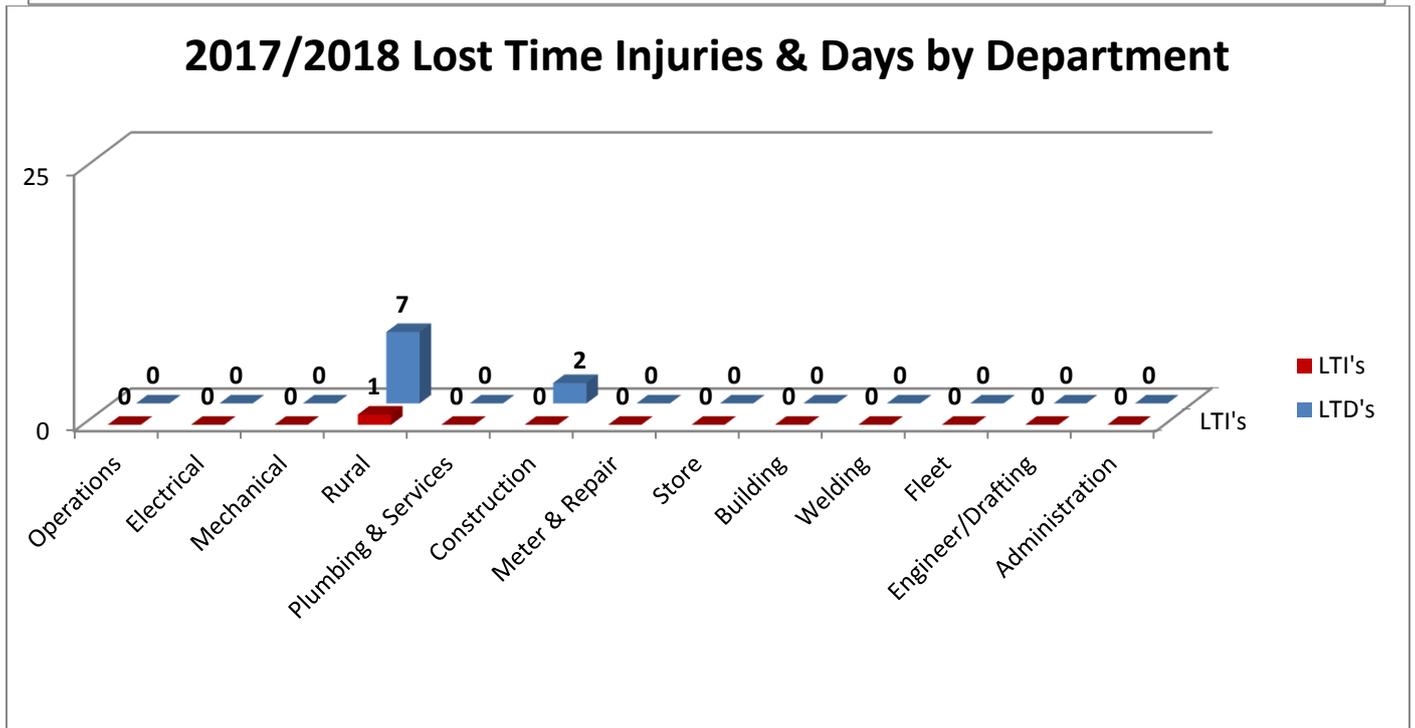
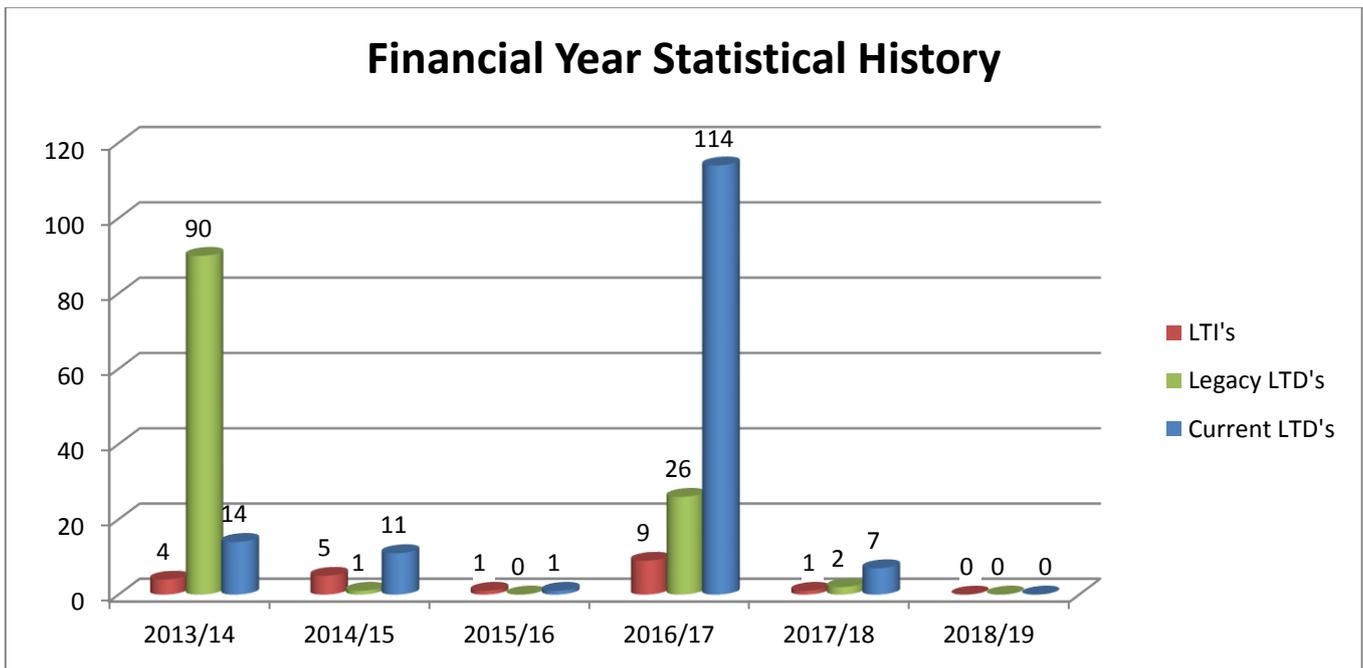
Debtor Category	June 2018		June 2017	
	Overdue	% Annual Revenue	Overdue	% Annual Revenue
Water Billing Debtors	\$513,426	1.80%	\$548,622	2.13%
Sundry Debtors	\$112,149	1.87%	\$155,958	2.06%
<b>TOTAL</b>	<b>\$625,575</b>	<b>1.81%</b>	<b>\$704,580</b>	<b>2.12%</b>

It should be noted the reduction in overdue debtors over the past 12 months is significantly due to the commendable efforts of the corporate services team who have shown great initiative in the further development of Council's debt recovery procedures.

## 9. LOST TIME INJURY STATISTICS 2017/18

**RECOMMENDATION** that the quarterly statistics report on Lost Time Injuries for the 2017 / 2018 financial year to date be received and noted.

QUARTER	LOST TIME INJURIES	LOST TIME DAYS CURRENT INCIDENTS	LOST TIME DAYS LEGACY INCIDENTS	TOTAL LTD'S
September 2017	0	0	3/2/17 complex hand injury	2
December 2017	1	22/11/17 back strain	7	0
March 2018	0	0	0	0
June 2018	0	0	0	0
<b>Year to date running tally</b>	<b>1</b>	<b>7</b>	<b>2</b>	<b>9</b>



## 10. MINUTES AUDIT & RISK COMMITTEE MEETING – 25th JULY 2018

**RECOMMENDED** that the Minutes of the Audit & Risk Committee Meeting held 25 July 2018 be noted.

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**MINUTES of the MEETING of AUDIT & RISK COMMITTEE**  
**held at 91 HAMMOND AVENUE, WAGGA WAGGA,**  
**on WEDNESDAY, 25<sup>th</sup> JULY 2018 at 9.30 am**

**PRESENT:**

Mr. David Maxwell (Chairperson)  
Clr. Yvonne Braid OAM  
Mr. Bryce McNair

**IN ATTENDANCE:**

General Manager	Mr. Andrew Crakanthorp
Internal Auditor	Mr. Phil Swaffield (CountPlus)
Internal Auditor	Mr. Steve Prowse (CountPlus)
Manager Corporate Services	Ms. Emily Tonacia
Minute Taker	Ms. Kerrie Fawcett

The meeting of the Audit and Risk Committee commenced at 9.30 am.

**1. PRESENT & APOLOGIES:**

Apologies for non-attendance were moved and accepted for Clr. T. Koschel on the motion of Clr. Y. Braid OAM and Mr. B. McNair.

**2. DECLARATIONS OF INTEREST**

Declaration by David Maxwell. Has an insignificant pecuniary interest in that he supplies software, handbooks and training to Councils.

**3. MINUTES OF PREVIOUS MEETING – 23RD MAY 2018**

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the minutes of the proceedings of the Audit and Risk Committee meeting held 23<sup>rd</sup> May 2018 be confirmed as true and accurate records.

**CARRIED**

**4. BUSINESS ARISING**

**5. DRAFT FINANCIAL STATEMENTS**

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the verbal report be noted.

**CARRIED**

**6. EXTERNAL AUDIT**

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the Management Letter relating to the Interim Audit be received.

**CARRIED**

## **7. INTERNAL AUDIT**

### **1. INTERNAL AUDIT PROGRESS REPORT**

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the Audit and Risk Committee receive and note the report. **CARRIED**

### **2. CORRESPONDENCE**

## **8. OTHER REPORTS**

### **1. AUDIT & ACCREDITATION REPORTS BY OTHER BODIES**

### **2. LEAD ORGANISATIONAL CRITICAL LIST**

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the Audit and Risk Committee receive and note the report. **CARRIED**

### **3. REVIEW OF RISK MANAGEMENT POLICY 1.13**

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the Committee recommend to Council that the revised Risk Management Policy 1.13 be adopted. **CARRIED**

### **4. STATUS REPORT ON RECOMMENDATIONS OF PREVIOUS AUDITS**

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the Audit and Risk Committee receive and note the report. **CARRIED**

### **5. VISIT BY AUDITOR GENERAL**

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the report be received. **CARRIED**

### **6. LEGISLATIVE COMPLIANCE REGISTER**

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the Audit and Risk Committee receive and note the report and request that the General Manager provide a report on annual basis that provides an update to the ARIC on changes made to the Register during the preceding twelve months. **CARRIED**

### **7. GENERAL MANAGER CONFIDENTIAL REPORT (VERBAL)**

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the verbal update by the General Manager be noted. **CARRIED**

## 9. COMMITTEE OPERATIONS

### 1. COMMITTEE ACTION REGISTER

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the Audit and Risk Committee receive and note the report.  
**CARRIED**

### 2. CHAIRMAN'S REPORT TO COUNCIL

***Recommendation:***

On the motion of Mr. B. McNair and Clr. Y. Braid OAM that the Audit and Risk Committee receive and note the report.  
**CARRIED**

### 3. REVIEW AUDIT COMMITTEE PERFORMANCE (cl 7.7)

***Recommendation:***

On the motion of Clr. Y. Braid OAM and Mr. B. McNair that the verbal update by the General Manager be noted.  
**CARRIED**

Next Meeting: Wednesday 19<sup>th</sup> September 2018 at 9.30 am

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Meeting Closed 11.10 am

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## 11. PROPOSED MOTION FOR LGNSW ANNUAL CONFERENCE

**RECOMMENDED** that Council submit the following motion to the Annual Conference of Local Government NSW to be held in October 2018:

*That LGNSW make representations to the NSW Government to amend Section 391 (2) of the Local Government Act 1993 so as to read “the chairperson holds office for two years, subject to this Act”*

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The Local Government Act 1993 was amended in recent years to provide that mayors of Councils elected by the councillors holds the office of mayor for 2 years, subject to the Act.

The change was brought into effect following representations from Councils during the Fit for the Future program and was a recommendation contained in the NSW Independent Local Government Review Panel Report dated October 2013.

At the time that the legislation was changed in August 2016, it appears that a similar amendment to the Act in respect of the term of Chairs of County Councils was not considered.

The proposed amendment will bring the term of Chairs of County Councils into parity with Mayors of Councils and enhance political leadership and stable governance of County Councils.

Initial discussions have been held with senior staff at the NSW Office of Local Government who advised that they would be prepared to consider the proposed amendment

## 12. POLICY 4.3 WORK HEALTH & SAFETY

**RECOMMENDATION** that Riverina Water County Council adopt Policy 4.3 Work Health & Safety.

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This policy was last revised in April 2017.

The Policy has been reviewed as part of Council’s general timetable of policy reviews.

There has been little change in the policy, with the exception of the layout and some slight change to wording.

An additional dot point to include participation and assistance in workplace rehabilitation programs has been included.

- [Policy 4.3 Work Health & Safety](#)

## WORK HEALTH AND SAFETY POLICY

<b>POLICY REFERENCE NUMBER:</b>		<b>P 4.3</b>	
<b>Original publication date</b>		<b>December 1997</b>	
<b>Revision number</b>	<b>Issue Date</b>	<b>Approved</b>	<b>Approval date</b>
0	January 2012	Res: 12/11	22 February 2012
1	April 2014	Res: 14/39	23 April 2014
2	April 2017	Res: 17/60	26 April 2017
3	August 2018	Res: 18/	22 August 2018
<p>This document is to be reviewed every two years. Next review date: <b>April 2019</b></p>			
<b>RESPONSIBLE OFFICER</b>		General Manager	

### GOAL

Riverina Water County Council is committed to achieving a consistently high standard of workplace and community health and safety. Riverina Water will strive to acquire, sustain and continuously improve on a level of workplace health & safety which it considers the best practice for this organisation.

### PLAN

Riverina Water has implemented a Health, Safety & Rehabilitation Management System to assist in the management of safety performance to achieve this goal, and to promote continuous improvement in workplace safety. In addition, it will serve to ensure Riverina Water meets, as a minimum, the obligations of this policy and the NSW Work Health and Safety (WHS) Legislation. Management will make every practicable effort in the areas of accident prevention, hazard identification, elimination or control of risks, health preservation, and provision of regular WHS training. Measurable safety targets and objectives will be developed annually and included in the Operational Plan. All physical working environments are to be established & maintained in a healthy and safe condition. In addition, Riverina Water will develop and implement a program for injury management and rehabilitation of injured employees.

Managers and supervisors will coordinate and communicate workplace health and safety policies and procedures to workers and the community. Management will consult with all workers to enable them to contribute to the making of decisions affecting their work health and safety. Riverina Water, through its officers (as per the legislative definition) will give high priority to safe work in organisational plans, procedures, programs and job instructions.

All workers will include safety as priority in all activities, will be committed to work health & safety, have a duty to act responsibly, and make every effort to prevent injury to themselves and others at the workplace. Riverina Water does not expect workers to conduct work, which they reasonably consider to be unsafe.

## **ACTIONS –**

### ***Riverina Water will:***

- Provide regular and appropriate education and training;
- Provide the systems and framework for the management of workplace safety & rehabilitation of injured workers;
- Communicate/Consult and promote on work health and safety;
- Plan for WHS in Strategic and Operational Plans;
- Develop and communicate instructions and procedures;
- Develop an annual set of measurable safety targets and objectives;
- Monitor and review;
- Take corrective action;
- Provide adequate resources.

### ***Managers and Supervisors will:***

- Analyse and eliminate or control risks;
- Monitor safety in the workplace;
- Share information and consult with employees;
- Develop and review procedures;
- Consider health and safety during purchase, procurement and design;
- Ensure public safety during our work activities;
- Ensure all workers are aware of and comply with relevant safety procedures;
- Participate and assist in workplace rehabilitation programs.

### ***All workers shall:***

- Include safety as a design criterion;
- Include safety in standing instructions;
- Give first priority to safety in all activities;
- Follow procedures and other safety instructions;
- Participate in the development and review of safety procedures;
- Report any hazards/accidents/incidents/near misses;
- Participate in the development of corrective actions & risk elimination or control;
- Participate in raising the safety culture within the organisation;
- Actively participate in the ongoing development of the WHS program,
- Participate and assist in workplace rehabilitation programs.

### ***Health & Safety Representatives (HSR's) / Committees (HSC) will:***

- Provide an avenue for consultation with employees on WHS issues and risk elimination;
- Continually provide opportunities for staff to provide suggestions and feedback about health and safety;
- Be an advocate for greater safety awareness and staff participation in safety in the workplace.

Andrew Crakanthorp  
GENERAL MANAGER

### 13. COUNCIL MEETING DATES AND TIMES

**RECOMMENDED** that Council's December Council Meeting be held on Wednesday 12<sup>th</sup> December 2018 commencing at 9.30am and that Council's October meeting be held on Wednesday 17 October also commencing at 9.30am.

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Council meeting dates are normally the fourth Wednesday of February, April, June, August, October and December each calendar year.

The remaining scheduled dates for 2018 are:

24<sup>th</sup> October  
26<sup>th</sup> December

The scheduled date for the October meeting falls on Wednesday 24<sup>th</sup> October. This follows closely after the conclusion of the Local Government NSW Annual Conference being held in Albury commencing on Sunday 21 October and concluding Tuesday 23 October.

Councillors Verdon and Braid are representing Riverina Water at the conference. Cr Meyer is representing Greater Hume Shire Council at the conference. Councillors Conkey and Keenan are representing Wagga Wagga City Council and it is likely that Cr Bourke will be representing Federation Council.

In the circumstances it is recommended that Council bring forward its October meeting to Wednesday 17 October.

The scheduled meeting for December 2018 falls on the 26 December, being a public holiday for Boxing Day and during the traditional Christmas shut down period.

This report proposes that the December Council meeting be held on Wednesday 13<sup>th</sup> December, followed by lunch at a venue to be arranged.

The Council, in the past, has conducted its ordinary December meeting on a date to coincide with the staff Christmas function. This practice was discontinued last year and it is proposed that when the date for the staff function is set, that Councillors will be invited to attend that function.

#### **14.LAND MATTERS FOR CONSTRUCTION OF RESERVOIRS AT DUNNS ROAD, WAGGA WAGGA**

**RECOMMENDATION** that Council consider the report “Land Matters for Construction of Reservoirs at Dunns Road, Wagga Wagga”, whilst the meeting is closed to the public, as it relates to commercial information the disclosure of which would prejudice the commercial position of the person who supplied it, as prescribed by Section 10A(2)(d) of the Local Government Act 1993.

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#### **15.TENDER W.228 FOR SHEETPILE CONSTRUCTION AT 91 HAMMOND AVENUE**

**RECOMMENDATION:** That Council consider the report “Tender W.228 for Sheetpile Construction at 91 Hammond Avenue”, whilst the meeting is closed to the public, as it relates to commercial information the disclosure of which would prejudice the commercial position of the person who supplied it, as prescribed by Section 10A(2)(c) of the Local Government Act 1993.

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#### **16.REVIEW OF ORGANISATION STRUCTURE**

**RECOMMENDATION** that Council consider the report "Organisation Structure" whilst the meeting is closed to the public as it relating to personnel matters about an individual, as prescribed by Section 10A(2)(a) of the Local Government Act 1993.

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#### **17.PERFORMANCE REVIEW – GENERAL MANAGER**

**RECOMMENDED** that the Council consider the Chairman’s Report “Performance Review – General Manager” whilst the meeting is closed to the public as it relating to personnel matters about an individual, as prescribed by Section 10A(2)(a) of the Local Government Act 1993.

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## 18. COUNCIL RESOLUTION SHEET

Council Resolution Sheet – Meeting held 22 August 2018				
Report Ref	Subject	Responsible Officer	Council Decision	Action Taken
<b>Meeting held 12 December 2014</b>				
14/190	Purchase of Land for Alternative Access to Hammond Ave	GM	That Council: 1) Purchase land for operational and access requirements in accordance with Section 187 of the Local Government Act 1993. 2) Delegate authority to the General Manager to negotiate the land purchase and sign the relevant sale documents. 3) Affix Council's Common Seal to documentation as required.	Negotiations continuing. Business Valuation completed. Additional investigations underway. Discussions resumed with Executive Team recently with a view to implementing the decision. A meeting was with current owners on 6 July to progress the matter and a more recent valuation is being obtained with a view to negotiating the purchase of land.
<b>Meeting held 26 October 2016</b>				
16/208	Replacement of Low Level Reservoir Land Matters	DoE	That Council: 1) Purchase the land on Lot 22 DP 835331 for the replacement of Low Level reservoir (10MG) at Willans Hill. The area to acquire is approximately 11,250m <sup>2</sup> . Compensation estimated by OPTEON property group \$130,000.00 ex GST. 2) Lease the land on Lot 22 DP 835331 (adjacent to proposed acquisition area) for Low Level reservoir (10MG) replacement earthworks (for material storage) at Willans Hill. Lease on Approximate area of 9600m <sup>2</sup> for 2 years. Lease amount per year estimated by OPTEON property group \$14,400.00 ex GST. 3) Delegate authority to the General Manager to negotiate the land purchase, lease, establishment of easements for the pipeline and access. 4) Affix Council's Common Seal to documents as required.	Proceeding with Council Resolution. Legal process ongoing. Earthworks 50% completed. Encountered some rock and as a consequence, Council has awarded a tender to undertake blasting which will take place in September 2018. The acquisition of land will be finalised after construction is complete so the appropriate amount of land is acquired.
<b>Meeting held 28 February 2018</b>				
18/12	New Board Room	GM	Council make provision in the 2018/19 Capital Works budget for the completion of the Board Room in the Stores Building and that the General Manager proceed with preparing an appropriate design and fit out, supported by an estimate of the works.	The initial design concepts were presented to a workshop of Councillors on the 8 August. Feedback from that workshop is being considered by the consultant to finalise the design.
18/10	Joint Organisations	GM	Council receive a further report on the formation of Joint Organisations following the proclamation of a Joint Organisation(s) in the Riverina Murray Planning region	This matter was reported to the June meeting of the Board and no further update at this stage.

<b>Meeting held 27 June</b>				
18/82	Riverina Water Community Grants Program	GM and Community Engagement Officer	Staff create the guidelines and applications forms for the Program and that a further report on the draft guidelines be prepared and presented to a future meeting of Council (and as soon as practicable)	Work on the guidelines will commence in late September and reported to the October meeting of the Board
18/85	Pesticide Use Notification Policy	GM	<p>Endorse draft Policy 2.03 Pesticide Use Notification Plan that is to be placed on public exhibition from 9 June to 10 July 2018 and invite public submissions on the draft policy during that period.</p> <p>Receive a further report following the public exhibition and submission period:</p> <ul style="list-style-type: none"> <li>• Addressing any submissions made in respect of the proposed Policy 2.03 Pesticide Use Notification Plan</li> <li>• Proposing adoption of the Policy unless there are any recommended amendments deemed to be substantial and requiring a further public exhibition period.</li> </ul>	The Policy has been placed on exhibition (from 13 August to 13 September) and a report will be presented to the October meeting.
18/103	Contract W.195 – Water Treatment Plant (WTP) Contract Variation	DE	<p>(a) That Council authorise the General Manager to further negotiate a suitable outcome within the original project budget.</p> <p>(b) That Council be provided with an update on the contract negotiations at the Board meeting in August 2018.</p> <p>(c) That the financial implications of any negotiated outcome be reported to Council as part of the September 2018 Quarterly Financial Review</p>	The DE and myself will provide an update to the Board at the August meeting on the favourable progress made in relation to this matter

Yours sincerely



Andrew Crakanthorp  
GENERAL MANAGER

## **DIRECTOR OF ENGINEERING'S REPORTS TO** **COUNCIL MEETING**

17th August 2018

### **1. WORKS REPORT COVERING JUNE 2018**

**RECOMMENDATION** That this report be received and noted.

- 
- *Works Report – June 2018*

**DIRECTOR OF ENGINEERING'S REPORTS  
TO AUGUST 2018 COUNCIL MEETING**

13th July 2018

**1 WORKS REPORT COVERING JUNE 2018**

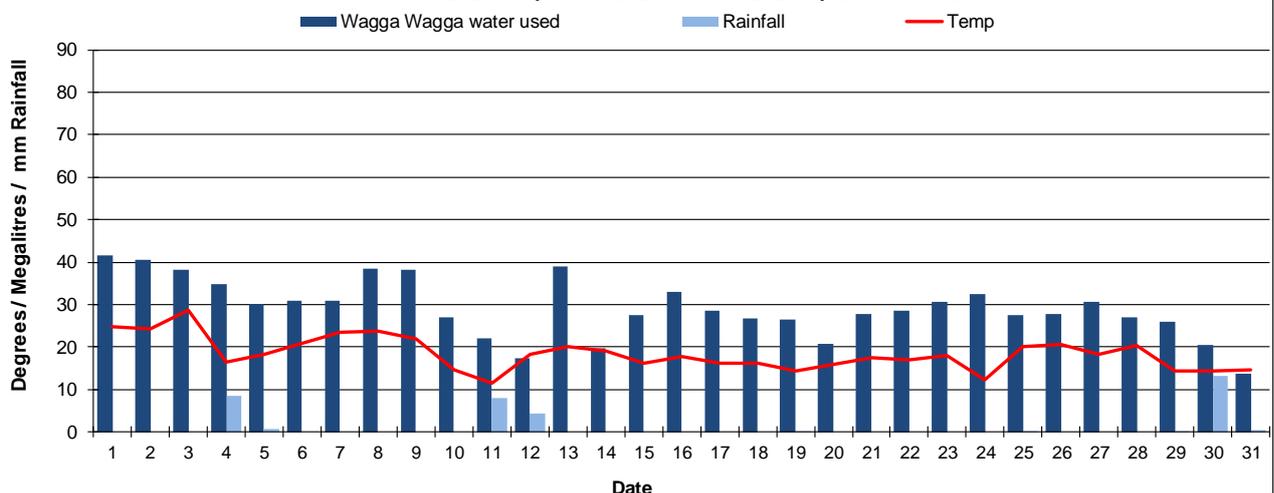
**RECOMMENDATION:** That this report be received and noted.

**1.1 WATER SOURCED AND USED**

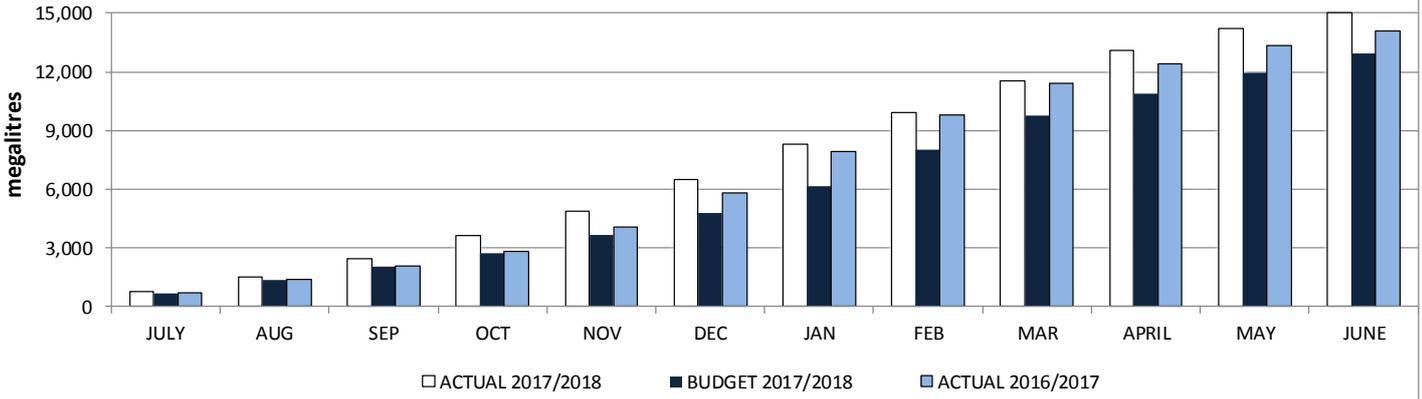
<b>June</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Rainfall	109.8	20.2	35.8
Wet Days	14	6	9
<b>WATER SOURCED June 2018 (MI)</b>			
North Wagga bores	155.09	174.67	156.12
West Wagga bores	191.29	326.95	316.38
East Wagga bores	392.59	326.20	266.79
Murrumbidgee River	0.00	0.00	0.00
<b>SUB-TOTAL</b>	<b>738.97</b>	<b>827.82</b>	<b>739.29</b>
Bulgary Bores	29.92	25.85	22.81
Urana Source	0.98	0.00	0.00
Ralvona Bores	14.18	14.58	13.00
Walla Walla Bores	0.00	0.00	0.00
Goldenfields Water Supply System	4.81	3.14	1.26
<b>SUB-TOTAL</b>	<b>49.89</b>	<b>43.57</b>	<b>37.07</b>
Woomargama	1.17	0.94	1.42
Humula	0.72	0.72	0.17
Tarcutta	2.26	2.34	2.17
Oura	2.10	5.17	1.63
Walbundrie/Rand	3.02	3.17	1.88
Morundah	0.49	0.65	0.35
Collingullie	3.73	3.11	3.40
<b>SUB-TOTAL</b>	<b>13.49</b>	<b>16.10</b>	<b>11.02</b>
<b>TOTALS</b>	<b>802.35</b>	<b>887.49</b>	<b>787.38</b>

<b>WATER USED June 2018 (MI)</b>			
	<b>2016</b>	<b>2017</b>	<b>2018</b>
East Bomen	25.77	25.45	19.07
Estella	51.98	57.56	42.04
North Wagga	56.16	66.44	75.89
Wagga Wagga – Low Level	118.91	126.04	135.90
Wagga Wagga – High Level	333.54	380.72	287.26
Wagga Wagga – Bellevue Level	44.16	43.77	46.89
<b>SUB-TOTAL</b>	<b>630.52</b>	<b>699.98</b>	<b>607.05</b>
Ladysmith System	2.05	4.57	3.35
Brucedale Scheme	18.37	20.36	13.30
Currawarna Scheme	9.83	10.01	7.36
Rural south from Wagga Wagga	79.00	92.52	86.58
Rural from Walla Walla Bore	0.00	0.00	0.00
Bulgary, Lockhart and Boree Creek	17.58	6.89	11.68
From Boree Crk to Urana and Oaklands	13.94	19.46	11.60
Holbrook	14.18	14.58	13.00
<b>SUB-TOTAL</b>	<b>154.95</b>	<b>168.39</b>	<b>146.87</b>
Woomargama	1.17	0.94	1.42
Humula	0.72	0.72	0.17
Tarcutta	2.26	2.34	2.17
Oura	2.10	5.17	1.63
Walbundrie/Rand	3.02	3.17	1.88
Morundah	0.49	0.65	0.35
Collingullie	3.73	3.11	3.40
<b>SUB-TOTAL</b>	<b>13.49</b>	<b>16.10</b>	<b>11.02</b>
<b>TOTALS</b>	<b>798.96</b>	<b>884.47</b>	<b>764.94</b>

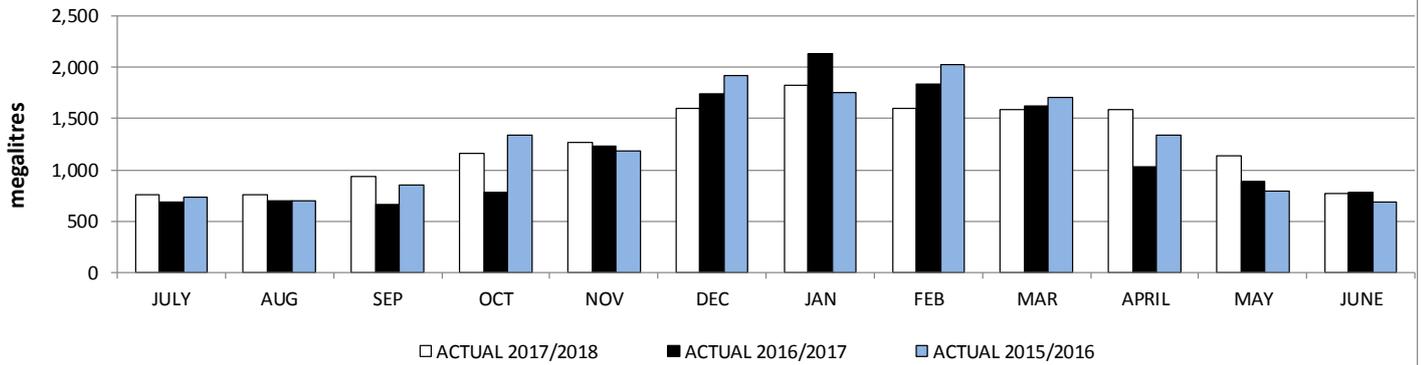
**DAILY WATER USED, WAGGA WAGGA, June 2018**



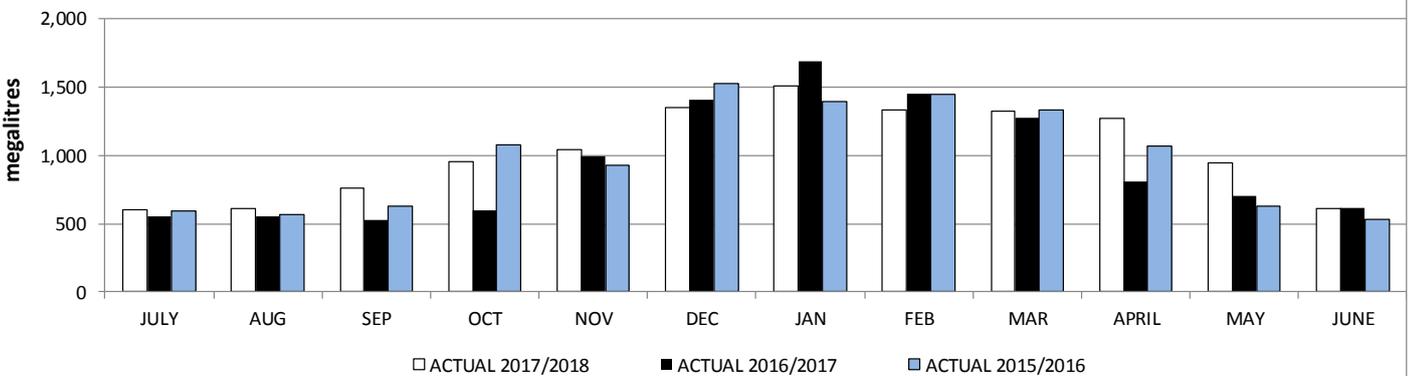
### TOTAL CUMULATIVE WATER USED 2017/2018



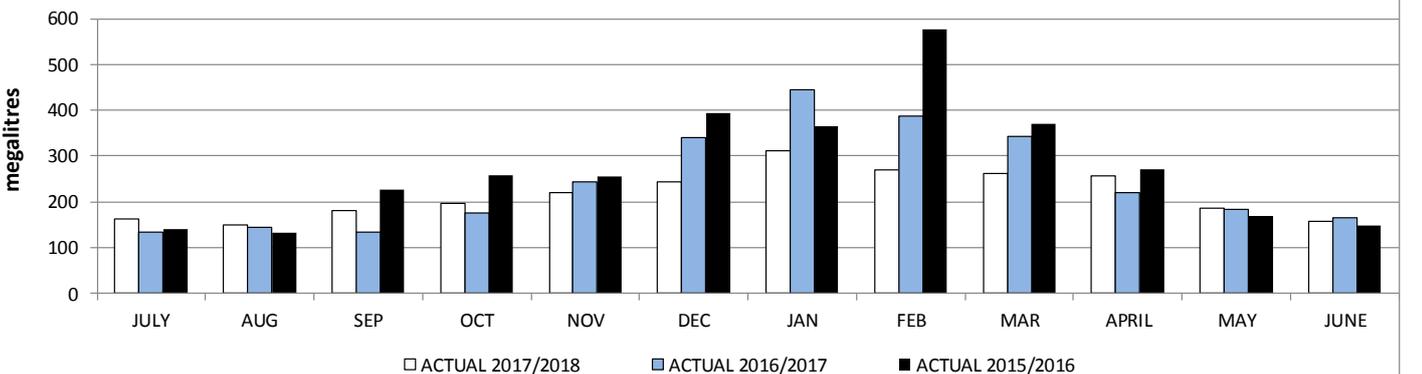
### MONTHLY TOTAL WATER USED COMPARED TO PREVIOUS YEARS



### MONTHLY WAGGA WATER USED COMPARED TO PREVIOUS YEARS



### MONTHLY RURAL WATER USED COMPARED TO PREVIOUS YEARS



**1.2 NEW SERVICE CONNECTIONS, REPAIRS, METERS, LOCATIONS & COMPLAINTS  
FOR THE MONTH OF JUNE 2018**

Location	New Connect., Residential	New connect., Non Residential	Services Renewed	Services Repaired	Quality Complaints	Supply Complaints *	Customer dealings complaints	Other Complaints	Frost damage	Meter or Metercock fault	Leaking valves or hydrants	Locations
Wagga Wagga	32	2	4	22	4				2	24		6
Wagga Wagga	3	2	3	5						7		4
Forest Hill	2											
North Wagga										2		
Estella										1		
Koorungal				5						2		
Turvey Park	4		1	1						1		
Lake Albert				1	2					3		
Ashmont				4						3		1
Tolland				1						1		
Mt Austin				2					1			
Bourkelands										1		
Tatton					1							
Glenfield				2	1					2		
Lloyd	8								1			
East Wagga												1
Boorooma	3											
Gobgombalin	11			1								
Gumly Gumly	1									1		
Euberta				1								
Humula				1								
Ladysmith						1						
Oura				1								
San Isidore			2	2								
Tarcutta				1						2	1	
The Gap				2								
Lockhart						1			2		1	
Mangoplah				2								
Pleasant Hills											1	
Bidgeemia											1	
The Rock		1		1								
Uranquinty									1			
Yerong Creek	1											
Culcairn										1		
Henty				1						2	1	
Holbrook					1				3	2	1	
Walla Walla										1		
Boree Creek										1		
Oaklands	1											
Rand										1		
Urana				2								
<b>TOTAL</b>	<b>34</b>	<b>3</b>	<b>6</b>	<b>36</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>34</b>	<b>5</b>	<b>6</b>

### 1.3 WATER SYSTEM REPAIRS

WAGGA WAGGA								
Date	Location	Town	Main Type	Cause	Live Repair	Outage Duration Time	Customers Affected (no supply)	Water Lost Kl
18	16 Nicholi Crescent	Lake Albert	100 AC	Pipe Failure (not	No	4:30	0	10
<b>TOTALS</b>						4:30	0	10
Total Breaks – 1		Breaks needing shut off -			1	Breaks affecting customers – 0		

RURAL								
Date	Location	Town	Main Type	Cause	Live Repair	Outage Duration Time	Customers Affected (no supply)	Water Lost Kl
1	Lockhart Road	French Park	150 CI	Pipe Failure -	No	4:00	0	97
1	Olympic Highway	Henty	200 AC	Pipe Failure (not	No	5:30	0	3,000
2	Bond Street	Holbrook	100 AC	Accidental	No	1:00	0	0
3	The Rock-Narrandera	Bulgary	225 DICL	Pipe Failure (not	No	4:00	0	10
7	Lockhart Road	The Rock	200	Pipe Failure -	No	2:00	8	23
9	Bidgeemia Road	Bidgeemia	100 CI	Leaking collar	No	1:30	3	0
19	9211 Tumberumba	Ladysmith	100 AC	Tree Roots	No	2:00	0	0
5	Sturt Highway	Collingullie	100	Pipe Failure -	Yes		0	7
7	9 Linton Street	Collingullie	100	Pipe Failure -	Yes		0	7
7	Boree creek Road	Lockhart	150	Pipe Failure -	Yes		0	12
20	Culevil Road	Urana	200	Pipe Failure -	Yes		0	23
21	County Boundary Road	Pleasant	40 PVC	Pipe Failure -	Yes		2	19
25	Albury Road	Pleasant	40 PE	Pipe Failure -	Yes		0	5
26	Yerong creek Road	Pleasant	32 PE	Pipe Failure -	Yes		0	9
26	Kennedy Street	Collingullie	100 CI	Pipe Failure -	Yes		0	15
29	Mickens Lane	Milbrulong	50PE	Corrosion	Yes		0	89
26	Doigs Lane	Pleasant	40 PE	Pipe Failure -	Yes		0	3
29	Doigs Lane	Pleasant	40 PE	Pipe Failure -	Yes		0	6
30	Bakes Lane	Pleasant	40 PVC	Pipe Failure -	Yes		0	9
<b>TOTALS</b>						20:00	13	3,334
Total Breaks – 19		Breaks needing shut off -			7	Breaks affecting customers – 3		

### 1.4 WATER QUALITY COMPLAINTS

Water quality complaints received during June 2018 were:

Date	Location	Problem	Action Taken
14/06/2018	3 Talbot Pl, Tatton	Dirty water	Flushed main
20/06/2018	202 Culcairn-Holbrook Rd, Holbrook	Air	Remove meter & flush line
26/06/2018	7 Lake St, Lake Albert	Dirty water	Flushed service
27/06/2018	1 Bindari Ave, Glenfield	Rust particles in water	Iron >0.3mg/L in house, <0.3mg/L at meter. Internal plumbing issue
30/06/2018	122 Riverview Dr, Moorong	Cloudy water	Flushed hydrant & service

## 1.5 MAINS CONSTRUCTIONS

### 1.5.1 MAINS EXTENSIONS AND NEW WORKS

New water mains laid during June 2018 include:

LOCATION	PROJECT	100	200	300
		OPVC	DICL	OPVC
Estella Rise Stage 4+6	New Sub-division	390		18
13 Olearia	New Sub-division	6		
Lloyd Stage 3	New Sub-division	210		
Glenfield Res			18	
	TOTAL	606		

### 1.5.2 REPLACEMENT OF EXISTING MAINS

Mains replaced during June 2018 include:

LOCATION	PROJECT	100	200
		OPVC	OPVC
The Rock to Milburlong	Mains Replacement	4	14
	TOTAL	4	14

## 1.6 OTHER CONSTRUCTION

No other construction works during June 2018.

## 1.7 MAJOR REPAIRS / OVERHAULS

Major repairs/overhauls during June 2018 include:

LOCATION OR PROJECT	WORK DONE
Urana WTP	Highlift pumps overhauled and recommissioned
Tarcutta Bore 5	Remove, inspect and clean
North Wagga Bore 3	Remove, inspect and clean
West Wagga WTP	Aeration basins drain, clean and recommission
West Wagga bore 1 & 2 raw water main	Scoured to waste and recommission
Urana WTP	Clean and replace filter media

## 1.8 WATER FILLING STATION ACTIVITY

Water Filling Station activity during June 2018 include:

LOCATION	NUMBER OF FILLS
Bomen Hereford Street	10
Estella Farrer Road	74
Forest Hill Elizabeth Avenue	24
Glenfield Red Hill Road	26
Henty Olympic Way	19
Holbrook Millswood Road	18
Lake Albert Plumpton Road	15
Lockhart Napier Road	16
Pleasant Hills Manson Street	4
The Rock	26
Yerong Creek Finlayson Street	3

## 1.9 STAFF TRAINING & SAFETY

The following training and/or safety activities were undertaken during June 2018:

Training or Programme	Number of Staff
Leadership & Mgmt CIV	12
Workcover Licence - Dogging	1
Dangerous Goods Licence	1
Thermostatic Mixing Valves	1
First Aid	1
Flouride Treatment Training	1
Mapinfo ProL2	1
Backflow Prevention & Comm	12
Civil Construction - Backhoe, Excavator	2
ETU Delegate Training	1

## 1.10 FLEET DISPOSALS

No fleet disposals made during June 2018.

## 1.11 FLEET ACQUISITIONS

No fleet acquisitions made during June 2018.



Bede Spannagle  
DIRECTOR OF ENGINEERING

## 2. WORKS REPORT COVERING JULY 2018

**RECOMMENDATION** That this report be received and noted.

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- *Works Report – July 2018*

**DIRECTOR OF ENGINEERING'S REPORTS  
TO AUGUST 2018 COUNCIL MEETING**

14th August 2018

**1 WORKS REPORT COVERING JULY 2018**

**RECOMMENDATION:** That this report be received and noted.

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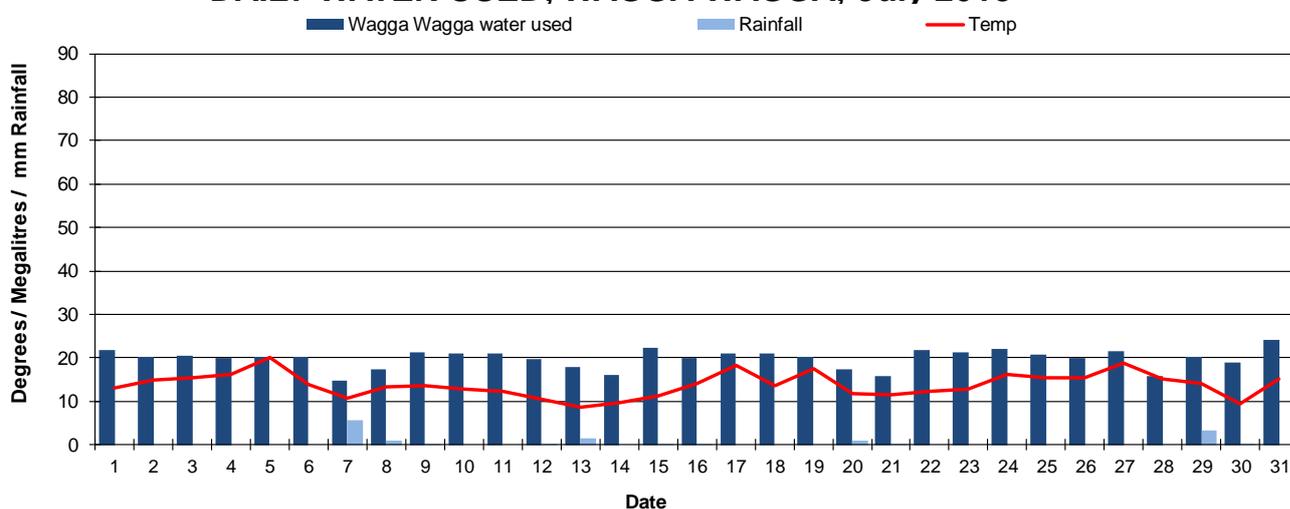
**1.1 WATER SOURCED AND USED**

<b>July</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Rainfall	83.4	52.2	13.6
Wet Days	20	19	11
<b>WATER SOURCED July 2018 (MI)</b>			
North Wagga bores	125.69	152.58	168.37
West Wagga bores	187.95	200.81	320.01
East Wagga bores	313.90	354.27	231.51
Murrumbidgee River	0.00	0.00	0.00
<b>SUB-TOTAL</b>	<b>627.54</b>	<b>707.66</b>	<b>719.89</b>
Bulgary Bores	32.60	21.04	25.75
Urana Source	0.00	0.00	0.00
Ralvona Bores	12.40	11.74	16.09
Walla Walla Bores	0.00	0.00	0.00
Goldenfields Water Supply System	6.09	2.52	1.86
<b>SUB-TOTAL</b>	<b>51.09</b>	<b>35.30</b>	<b>43.70</b>
Woomargama	1.02	0.90	1.93
Humula	0.51	0.48	0.38
Tarcutta	1.90	2.49	2.44
Oura	1.79	1.87	2.29
Walbundrie/Rand	2.20	1.83	2.45
Morundah	0.41	0.34	0.52
Collingullie	4.23	2.87	3.50
<b>SUB-TOTAL</b>	<b>12.06</b>	<b>10.78</b>	<b>13.51</b>
<b>TOTALS</b>	<b>690.69</b>	<b>753.74</b>	<b>777.10</b>

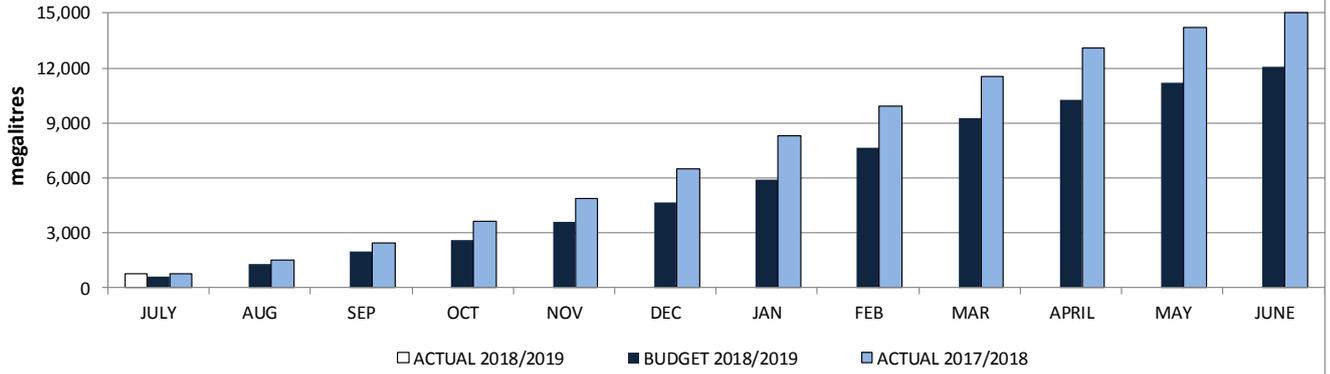
## WATER USED July 2018 (MI)

	2016	2017	2018
East Bomen	19.33	21.79	22.20
Estella	35.28	45.04	50.26
North Wagga	53.00	69.00	67.34
Wagga Wagga – Low Level	113.12	115.59	120.96
Wagga Wagga – High Level	282.58	309.84	280.84
Wagga Wagga – Bellevue Level	32.23	40.83	56.93
<b>SUB-TOTAL</b>	<b>535.54</b>	<b>602.09</b>	<b>598.53</b>
Ladysmith System	2.63	3.65	3.07
Brucedale Scheme	14.65	13.58	17.01
Currawarna Scheme	7.59	7.67	9.07
Rural south from Wagga Wagga	64.76	92.52	92.52
Rural from Walla Walla Bore	0.00	0.00	0.00
Bulgary, Lockhart and Boree Creek	24.34	7.57	15.14
From Boree Crk to Urana and Oaklands	8.84	13.92	11.11
Holbrook	12.40	11.74	16.09
<b>SUB-TOTAL</b>	<b>135.21</b>	<b>150.65</b>	<b>164.01</b>
Woomargama	1.02	0.90	1.93
Humula	0.51	0.48	0.38
Tarcutta	1.90	2.49	2.44
Oura	1.79	1.87	2.29
Walbundrie/Rand	2.20	1.83	2.45
Morundah	0.41	0.34	0.52
Collingullie	4.23	2.87	3.50
<b>SUB-TOTAL</b>	<b>12.06</b>	<b>10.78</b>	<b>13.51</b>
<b>TOTALS</b>	<b>682.81</b>	<b>763.52</b>	<b>776.05</b>

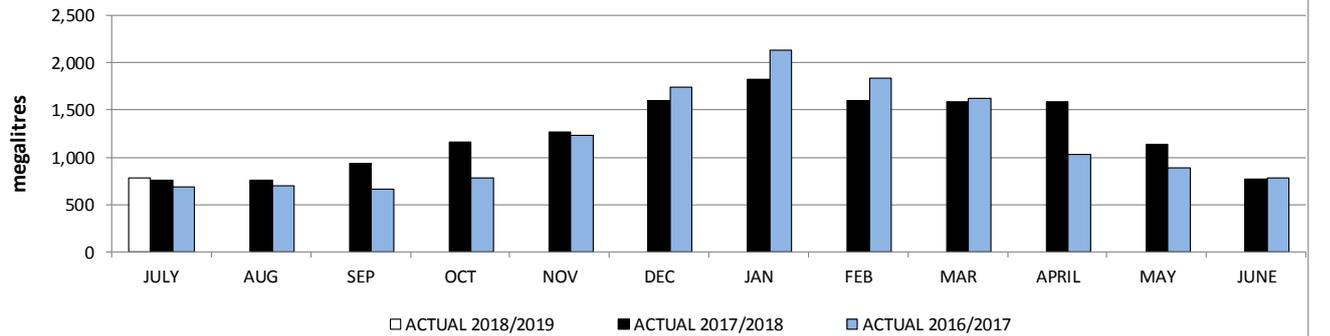
### DAILY WATER USED, WAGGA WAGGA, July 2018



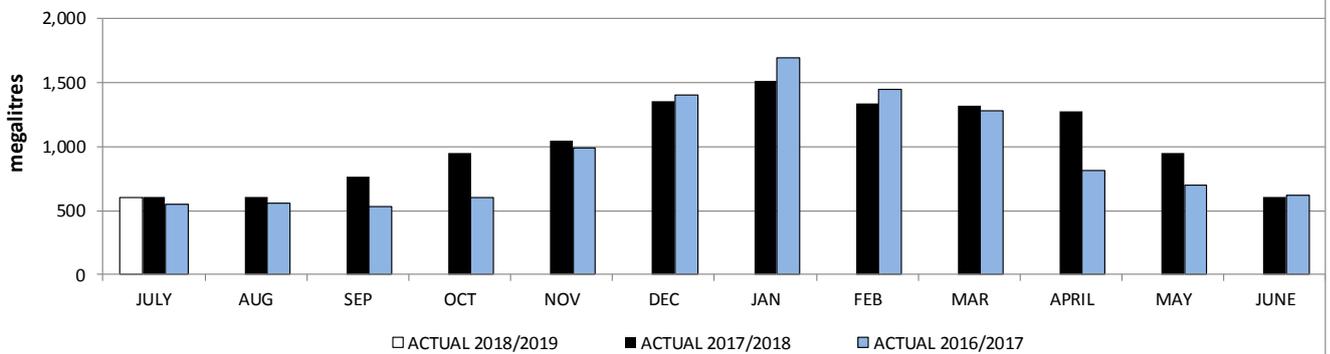
### TOTAL CUMULATIVE WATER USED 2018/2019



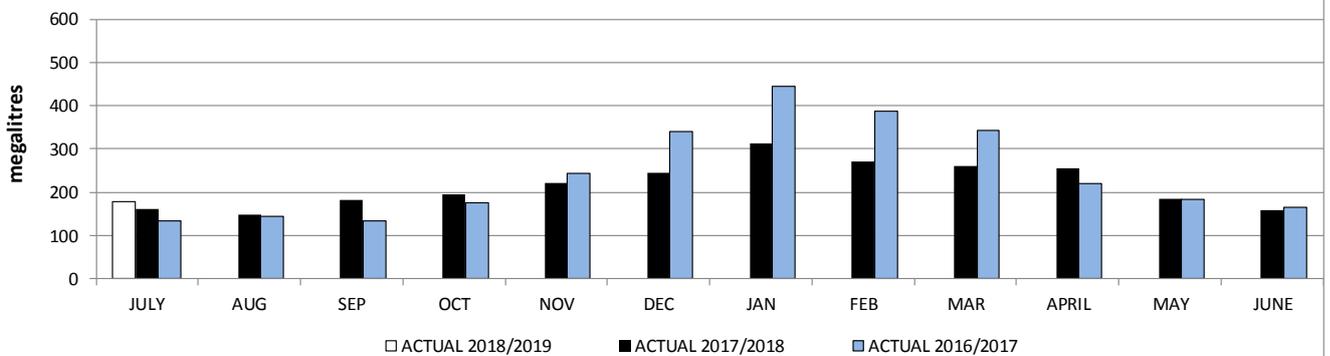
### MONTHLY TOTAL WATER USED COMPARED TO PREVIOUS YEARS



### MONTHLY WAGGA WATER USED COMPARED TO PREVIOUS YEARS



### MONTHLY RURAL WATER USED COMPARED TO PREVIOUS YEARS



**1.2 NEW SERVICE CONNECTIONS, REPAIRS, METERS, LOCATIONS & COMPLAINTS FOR THE MONTH OF JULY 2018**

Location	New Connect., Residential	New connect., Non Residential	Services Renewed	Services Repaired	Quality Complaints	Supply Complaints *	Customer dealings complaints	Other Complaints	Frost damage	Meter or Metercock fault	Leaking valves or hydrants	Locations
Wagga Wagga	42	2	5	19	8	7				49	1	11
Wagga Wagga				3	1	3				6	1	4
Forest Hill	2			2						1		
North Wagga										5		3
Bomen						1						
Estella	2									4		
Koorngal				3						7		
Turvey Park	1		1	2						3		
Lake Albert	2			4	1					10		3
Ashmont		1		1						2		
Tolland			1							1		1
Mt Austin			3	2						5		
Bourkelands										1		
Tatton	1				1							
Glenfield				2	4	1				4		
Lloyd	1				1							
Boorooma	13	1				2						
Gobbagombalin	14											
Gumly Gumly	3											
Brucedale	1											
Tarcutta				1								
The Gap				2	1							
Bulgary				3								
Collingullie				2								
Lockhart									3	2		
Milbrulong						1						
The Rock	1			1								
Uranquinty											1	
Yerong Creek				1								
Henty										1		
Holbrook				1		1				1		
Ralvona				1								
Morven				1								
Walla Walla										1		
Woomargama				1								
Oaklands						1						
Kapooka				1						1		
Urana											1	
<b>TOTAL</b>	<b>44</b>	<b>2</b>	<b>5</b>	<b>33</b>	<b>9</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>55</b>	<b>3</b>	<b>11</b>

### 1.3 WATER SYSTEM REPAIRS

WAGGA WAGGA								
Date	Location	Town	Main Type	Cause	Live Repair	Outage Duration Time	Customers Affected (no supply)	Water Lost KI
3	28 Thompson Street	Wagga	100 CI	Tree Roots	Yes		0	0
9	Tarcutta Street -	Wagga	100 AC	Pipe Failure (not	Yes		0	0
<b>TOTALS</b>						0:00	0	0
					Breaks needing shut off -	0	Breaks affecting customers - 0	
Total Breaks -		2						

RURAL								
Date	Location	Town	Main Type	Cause	Live Repair	Outage Duration Time	Customers Affected (no supply)	Water Lost KI
6	Olympic hwy	Henty	200 AC	Pipe Failure -	No	2:00	30	10
10	Lockhart Albury Rd	Lockhart	50 PVC	Pipe Failure (not	No	2:00	2	0
11	Steel Street	Holbrook	100 AC	Pipe Failure -	No	2:00	15	76
20	Henty Balance Tank	Henty	200 AC	Pipe Failure (not	No	21:15	0	0
24	Holbrook rd	Morven	150 AC	Pipe Failure -	No	2:59	15	35
6	Chaplins Lane	The Rock	50 PVC	Pipe Failure (not	Yes		0	0
9	16 Spaul St	Uranquinty	100 AC	Tree Roots	Yes		0	0
17	14 Yarragundry st	Uranquinty	100 AC	Pipe Failure -	Yes		0	12
17	Doigs Lane	Pleasant Hills	50PE	Pipe Failure -	Yes		0	7
17	Albury Road	Pleasant Hills	40 PE	Pipe Failure -	Yes		0	21
18	Elm Lane	Henty	80 AC	Leaking SS	Yes		0	0
24	Boree Creek Road	Lockhart	150	Pipe Failure -	Yes		0	17
28	Urana rd	Boree Creek	100 AC	Pipe Failure -	Yes		0	9
30	Milburlong rd	Lockhart	200 AC	Leaking SS	Yes		0	6
<b>TOTALS</b>						30:14	62	193
					Breaks needing shut off -	5	Breaks affecting customers - 4	
Total Breaks -		14						

### 1.4 WATER QUALITY COMPLAINTS

Water quality complaints received during July 2018 were:

Date	Location	Problem	Action Taken
3/07/2018	26 Balleroo Cr, Glenfield	Dirty water	Old HWS
7/07/2018	4 Florey St, Lloyd	Dirty water	Site visit & tap flushing
9/07/2018	Church St, Wagga	Dirty water	Flushed main
12/07/2018	5 Lakehaven Dr, Lake Albert	Dirty water	Site visit & tap flushing
19/07/2018	6 Bonney Pl, Tatton	Dirty water	Flushed main. HWS is problem
20/07/2018	RMB416 The Gap Hall Rd, TheGap	Dirty water	Flushed main & hydrants
25/07/2018	16 Jackson St, Glenfield	Water leak	Tested for F <sup>-</sup> to ID if mains water or not
25/07/2018	62 Mima St, Glenfield	Strong Cl	WQ within ADWG
25/07/2018	6 Mirrul St, Glenfield	Strong Cl	WQ within ADWG

## 1.5 MAINS CONSTRUCTIONS

### 1.5.1 MAINS EXTENSIONS AND NEW WORKS

New water mains laid during July 2018 include:

LOCATION	PROJECT	100		150		250
		OPVC	DICL	OPVC	DICL	OPVC
Lloyd Stage 3	New Sub-division					144
Boorooma Stage	New Sub-division	567		48		
	TOTAL	567				144

### 1.5.2 REPLACEMENT OF EXISTING MAINS

Mains replaced during July 2018 include:

LOCATION	PROJECT	63	100	
		Poly	OPVC	DICL
Nurrung St	Mains Replacement		800	98
Mimosa Dr	Mains Replacement		620	54
Yerong Creek	Mains Replacement	695		
	TOTAL	695	1420	152

## 1.6 OTHER CONSTRUCTION

Other construction works during July 2018 include:

LOCATION OR PROJECT	WORK DONE
Moorong St Bore Rising Main	Cut scour into rising main
Lloyd Stage 3	Install all water services in new subdivision

## 1.7 MAJOR REPAIRS / OVERHAULS

Major repairs/overhauls during July 2018 include:

LOCATION OR PROJECT	WORK DONE
West Wagga Bores	Scoured to waste and recommission
Ralvona Water Treatment Plant	Replace and relocate chlorine dosing point
North Wagga Bore 3	Reinstall after maintenance
Collingullie Water Treatment Plant	Repair control systems after lightning strike
Walbundrie Water Treatment Plant	Reinstate temporary CWS and controls
North Wagga Pump station	No1 highlift overhauled and recommissioned
Tarcutta Water Treatment Plant	Manganese pump No1 overhauled and recommissioned
Urana Pump station	Highlift 1 & 2 overhauled

## 1.8 WATER FILLING STATION ACTIVITY

Water Filling Station activity during July 2018 include:

LOCATION	NUMBER OF FILLS
Bomen Hereford Street	26
Estella Farrer Road	85
Forest Hill Elizabeth Avenue	8
Glenfield Red Hill Road	49
Henty Olympic Way	14
Holbrook Millswood Road	7
Lake Albert Plumpton Road	27
Lockhart Napier Road	46
Pleasant Hills Manson Street	8
The Rock	39
Yerong Creek Finlayson Street	3

## 1.9 STAFF TRAINING & SAFETY

The following training and/or safety activities were undertaken during July 2018:

Training or Programme	Number of Staff
Leadership & MGMT CIV	12
WT Chemical Dosing	1
Workcover Licence - C6 Crane	1

## 1.10 FLEET DISPOSALS

Fleet disposals made during July 2018 are:

Vehicle Details					
Vehicle No	Description	Vehicle Type	Make & Model	Year	kms
64	Culcairn	Mower	Ford LGT14D	1991	257
76	Wagga	Vacuum unit	Spout vac	2002	
149	Wagga	Tipper truck	Isuzu Giga tipper	2005	
214	Wagga	Tipper truck	Isuzu FVR1000 tipper	2008	
215	Wagga	Tipper truck	Isuzu FVR1000 tipper	2009	
Disposal Details					
Vehicle No	Method		Price exc GST		
64	Auction		\$2,272.73		
76	Internet		\$13,409.09		
149	Not sold yet		N/A		
214	Not sold yet		N/A		
215	Keeping for spout vac		N/A		

## 1.11 FLEET ACQUISITIONS

Fleet acquisitions made during July 2018 are:

New Vehicle Details					
Vehicle No	Tenders Received	Accepted Tenderer	Vehicle Type	Make & Model	Price exc GST
76	3	Spout-vac	Vacuum unit	Spout-vac LP873	\$121,015
214	6	Wagga Motors	Tipping truck	Isuzu FDX 1000	\$153,728
215	6	Wagga Motors	Tipping truck	Isuzu FDX 1001	\$153,728

## 1.12 MAJOR CAPITAL PROJECTS PROGRESS

	- On track
	- Behind Schedule
	- Unlikely this Financial Year

### MAJOR PROJECTS 2017/18 (> Over \$100,000) - July 2018

Description	2017/18 Budget	Actual & Committed to Date	Comments
<b>MANAGEMENT</b>			
<b>Depot Buildings</b>			
Fitout new Council meeting room in new depot building	\$150,000	\$1,889	Scope is still being finalised. Existing budget inadequate.
<b>Land &amp; Buildings for Admin, Depot &amp; Workshops</b>			
<b>Access, Parking and Landscaping</b>			
Levee protection stage 2 Hammond Ave - Urban	\$700,000	\$461,146	Tender recommendation for installation of piling to August meeting.
<b>PLANT &amp; EQUIPMENT</b>			
<b>IT Equipment</b>			
Computer Equipment - Urban	\$123,500	\$76,329	Annual IT asset replacement program in progress
<b>Working Plant &amp; Vehicle Purchases</b>			
Routine plant & vehicle replacements	\$800,000	\$578,824	
<b>Telemetry &amp; Control Systems Upgrade</b>			
Radio Telemetry SCADA Upgrade	\$155,000	\$0	
<b>Radio Communications Upgrade/Replacements/Improvements</b>			
Radio Communication	\$421,000	\$142,343	
<b>SOURCES</b>			
<b>Bores-renew/refurbish/decommission</b>			
Oura Bore 2 Replacement (or WTP upgrade)	\$250,000	\$0	Application for new wew bores completed and commence public consultation period

<b>TREATMENT PLANTS</b>			
<b>Treatment Plant Refurbishments</b>			
East Wagga Aeration Basin cover - Urban	\$160,000	\$2,550	
West Wagga WTP Fluoride Plant Replacement	\$130,000	\$0	
WTP Stage 1 - Urban	\$3,000,000	\$1,868,987	See detailed report
Urana WTP replacement - Non-Urban	\$1,300,000	\$16,695	Earthworks complete.
<b>RESERVOIRS</b>			
<b>New/Replacement Reservoirs</b>			
Main Low Level Reservoir 2x11ML Investigation & Design - Urban	\$4,400,000	\$272,471	Blasting contract awarded. Blasting anticipated in September.
Glenoak Res 2 x 4.5ML - Investigate, design, land matters	\$2,000,000	\$0	WWCC have issued draft access licence to allow construction. Plan to commence earthworks in October.
Shires Reservoir Relocation - Non-Urban	\$100,000	\$22,330	Completion expected by end of October.
<b>MAINS, SERVICES &amp; METERS</b>			
<b>MAINS</b>			
<b>System Improvements</b>			
System Improvements - Urban	\$150,000	\$173,176	
Low Level Reservoirs Pipework	\$300,000	\$0	
WW WTP 600mm DICL Koorringal Rd	\$100,000	\$0	
Estella to CSU 450mm DICL	\$1,280,000	\$0	
The Rock Laneway King St	\$105,000	\$0	

<b>Reticulation for Developers (including other extensions)</b>			
Reticulation for Developers - Urban	\$800,000	\$57,772	
<b>Renew Reticulation Mains</b>			
Renew Reticulation Mains - Non-Urban	\$200,000	\$0	
Renew Reticulation Mains - Urban	\$400,000	\$0	
Gap Hall Coolamon	\$300,000	\$0	
Billigha Street	\$100,000	\$0	
Inglewood	\$250,000	\$0	
<b>Renew Trunk Mains</b>			
Renew Trunk Mains - Urban	\$200,000	\$0	
Renew Trunk Mains - Non-Urban	\$200,000	\$0	
The Rock - Milbrulong BT Trunk Mains Replacement	\$1,000,000	\$9,414	
<b>SERVICES</b>			
<b>Service Connections, new including Meters</b>			
Service Connections, new - Urban	\$500,000	\$55,450	
<b>Renew Services</b>			
Renew Services - Urban	\$100,000	\$17,970	
<b>METERS</b>			
<b>Water Meters Replacement</b>			
Water meters replacement - Urban	\$150,000	\$11,921	



Bede Spannagle  
DIRECTOR OF ENGINEERING

### 3. CONTRACT W195 – WATER TREATMENT PLANT (WTP) PROGRESS REPORT

**RECOMMENDATION** that Council receive and note this report.

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The raw water intake including concrete access stairs and rock revetment are now complete. The river bank has been stabilised with jute mesh and hydro mulching.

The Raw Water pumps have been installed and will be commissioned in August.

Fabrication for the Raw Water Lifting frame has been completed in RWCC's welding workshop and the Eilbeck Gantry crane is on site. Raw Water lifting frame will be galvanised and erected in September.

UGL have rewired the PLC in the filter block building.

All of the clear water pumps have returned to site and been reinstalled. The pumps were repainted to specification and mechanical seals have been installed (Variation 143 with CMR#11).

Installation of Sludge transfer pump from the Thickener to Thickened Sludge Holding tank has been completed.

#### **Contract issues and variations**

RWCC have met with UGL and stated our position in relation to unresolved variations.

The contract Senior Executives have met to discuss the replacement of the Lamella Clarifiers and negotiations have progressed. RWCC expect to have a deed of settlement and release finalised by September.

The UGL project status reports issued since the last Council meeting are attached.

- *UGL Project Status report – June 2018*
- *UGL Project Status report – July 2018*



# **PROJECT STATUS REPORT**



## **June 2018**

PROJECT:	Wagga Wagga WTP Upgrade
CLIENT:	Riverina Water County Council
CONTRACT NO.:	W195
UGL PROJECT NO.:	3200-0485
REPORT DATE:	30th June 2018
REPORT NO.:	34
PROJECT MANAGER:	Doug Anderson
PREPARED BY:	Doug Anderson



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## 1.0 SUMMARY

Project progress in June was focussed on the following activities:

Electrical works – PLC rewire, termination of RW Pumps, wiring of sludge transfer pump, dewatering building defects, cable and equipment tags; test and quality documentation.

Raw Water Intake – Revetment rock 95%, gabions 95%, raw water pumps installed, riverbank rehabilitation 75%.

Road works – transitions to existing roads outstanding

Clearwater Pump Station Building – 1 x low and 1 x high level pumps have been returned and reinstalled remaining 4 pumps have been transported from site for refurbishment, clearwater discharge manifolds, replacement of flanges and testing 100%

Lamella Clarifiers – Issues with sludge build-up etc subject to negotiations with RWCC.

Filters – final commissioning outstanding

Civil/plumbing – Remediate plumbing in filter building, certification for site stormwater & sewage, landscaping & footpaths.

Safety performance across the site continues to be well managed.

## 2.0 SCOPE OF WORK

The project scope of works is to replace the Wagga Wagga Water Treatment Plant (WTP) to provide additional process capacity and asset reliability to produce up to 55ML/day of water for the residents of Wagga Wagga.

## 3.0 HSSE

The total hours worked on the project this month were 4,450 hours. Subcontractor hours recorded on site were 3450. Total hours worked on the project to date is 256,746.

### **The following incidents occurred on site in June 2018.**

**1<sup>st</sup> Aid Injury:** Electrician was drilling a hole into a length of electrical steel cable tray, the cable tray moved and struck the electrician's index finger on his left hand causing a minor laceration- Electrician was not wearing gloves at the time of the injury

**Actions:** Electrician provided with 1st aid and laceration cleaned and treated. Electrician taken to local doctor for tetanus injection as he has not had and tetanus shot for several years. Electrician has returned to work 3.10pm 28/6/2018

**Report Only:** During the work task of concreting stairs access into the raw water pump location a concreter reported that he had aggravated pre-existing condition with his knee

**Actions:** The concrete subcontractor supervisor took the concreter to medical center where the knee was treated by medical personnel and the concreter returned to work on site 1 hour after aggravating his knee complaint



Looking towards May/June we will be focussed on the following:

- UGL Isolation procedure
- SWMS development by subcontractors
- Continuing training site personnel in UGL Utake 5 and HAZOB
- UGL Critical Risk Protocols all site personnel
- Continuing with Project Manager Monthly Safety Awards

The Safety Report for this month is contained in Appendix B.

#### 4.0 RISK / CRITICAL ACTION AREAS

Summary of Top Risks: -

Risk Description	Potential Impact	Control Measures
Quality and specification issues	Impact to project efficiency and rate of completion Additional resources required for investigation and remedy. Subcontractor Impact to Client Relations and Perceptions	Ensure incoming inspections are completed with due diligence  Engage with subcontractors & suppliers about prompt rectification of issues
Commissioning Program Overrun	Plant not ready for performance trial by the required date.	Install temporary raw water supply to lamella clarifier to provide a supplemental supply for summer demand
Exceptional Inclement Weather	Delays associated with site inundation due to additional rainfall on site and rise in river levels.	Use construction methodologies which mitigate impacts.

## 5.0 CONTRACT/COMMERCIAL

### 5.1 Progress Claim

The table below summarises the progress to the 30th June.

#### WAGGA WAGGA WATER TREATMENT PLANT

Item No.	Schedule of Prices	Total Claim to date	
		% complete	Claim Value
1	Provision of Preconstruction Activities		
	Preconstruction Activities subtotal (1)	100%	
2	Provision of Project Management and Site Running Activities		
	Project Management Activities subtotal (2)	97%	
3	Complete all additional designs, where required		
	Design and Documentation subtotal (2)	100%	
4	Intake Works		
	Intake Works - General subtotal (3)	87%	
5	Raw Water Piping System		
	Raw Water Piping subtotal (4)	96%	
6	Lamella & Rapid Mix Tank		
	Lamella & Rapid Mix Tank subtotal (5)	100%	
7	Filters		
	Filters subtotal (7)	100%	
8	Filter Water Tank & Backwash		
	Filter Water Tank & Backwash subtotal (8)	100%	
9	Machinery Room		
	Machinery Room subtotal (9)	99%	
10	Clear Water Storage & Pumping System		
	Clear Water subtotal (10)	100%	
11	Aluminium Dosing Plant		
	Aluminium Dosing Plant subtotal (11)	100%	



12	PACL Dosing Plant		
	PACL Dosing Plant subtotal (12)	100%	
13	Caustic Soda Dosing Plant Facilities		
	Caustic Soda Dosing Plant subtotal (13)	100%	
14	Sodium Hydrochlorite Dosing Plant		
	Sodium Hydrochlorite Dosing Subtotal (14)	100%	
15	Polymer Dosing Plant		
	Polymer Dosing Plant subtotal (15)	100%	
16	Fluoride Dosing Plant		
	Fluoride Dosing subtotal (16)	100%	
17	Other Items		
	Other Items subtotal (17)	99%	
18	Electrical Items		
	Electrical subtotal (18)	98%	
19	Testing Demonstration Commissioning		
	Testing Demonstation and Commissioning (19)	27%	
20	Post Process Proving		
	Post Process Proving (20)	24%	
21	Sludge Handling & Dewatering System		
	Sludge Handling subtotal (19)	99%	
22	Other Options Accepted		
	Options subtotal (20)	100%	
23	Variations		
	Variations Subtotal	95%	

## 5.2 Variations

The table below provides a summary of the approved variations against the contract.

Variation No.	Title	Amount (\$ 000) Excl. GST	Status
VO01	Control System Design for fully networked plant	15	Approved
VO02	AC Road Surface	101	Approved
VO03	Future UV	21	Approved
VO04	Disabled Access	278	Approved
VO05	Aggressive Water Response	79	Approved
VO06	NSC02 – removal of Gyprock	5	Approved
VO07	Transformer supplied by principle	- 244	Approved
VO09	Chemical Dosing – Alum Storage	81	Approved
VO10	Switchboards additional spare capacity	8	Approved
VO11	Lamella plate capacity	45	Approved
VO12	Sewer pump station	5	Approved
VO13	Manual Penstocks on Clarifier Inlet	9	Approved
VO14	Increased bearing capacity in the filters	31	Approved
VO15	Waste in excavation NSC04 & NSC06	10	Approved
VO16	Asbestos in Levee	26	Approved
VO17	Warehouse Facility	- 18	Approved
VO18	Filter Gallery Trenches	41	Approved
VO19	Additional 25mm cover to Slab	8	Approved
VO20	Raw Water Intake	105 260	20A Approved 20B Approved
VO21	Material Compatibility Changes	- 17	Approved
VO23	Pits under existing centrifuge building - NSC10	8	Approved
VO24	Clear Water Pumps Mechanical Seal	1.5	Approved
VO25	Bomen Line	80	Approved
VO26	NSC11 Material Excavated under UGL Carpark	27	Approved
VO27	NSC12 Asbestos at Wash Water Holding Tank	3	Approved
VO29	Filter Water Overflow Changes	-80	Approved
VO30	Site Road Realignment	17	Approved
VO31	Roof Access Ladder to Centrifuge Building	14	Approved
VO33	Flowmeter Modbus Communications	22	Approved
VO34	Caustic Building Lighting Changes	3	Approved
VO36	Sludge Thickener Infill Slab	90	Approved
VO40	Street Light Fittings	9	Approved



<b>VO43</b>	S&I 4.8 to 9.6 Garnet Filter Media	86	Approved
<b>VO44</b>	Lamella Corrosion	-300	Approved
<b>VO45</b>	Concrete slab between filters and Lamella	1	Approved
<b>VO46</b>	NSC16 Remove Concrete Slab	4	Approved
<b>VO49</b>	Bore Water Pressure Line Changes	9	Approved
<b>VO50</b>	Filter Building Pop out Power Outlets	2	Approved
<b>VO53</b>	NSC17 Asbestos at A2 to A203	4	Approved
<b>VO56</b>	Rework External Chemical Delivery Pipework	15	Approved
<b>VO73</b>	Road Subgrade Replacement	26	Approved
<b>VO140</b>	Power Failure Alarm Modification	5	Approved
<b>VO141</b>	Raw Water Disassembly Frame Footings	2	Approved
<b>VO142</b>	Chemical Building Forklift Access Ramps	12	Approved
<b>VO143</b>	Conversion of Hi & Low Lift Pumps to Mechanical Seals	64	Approved
<b>VO144</b>	Supply & Install additional WAPs	8	Approved
<b>VO145</b>	Surge Tank Footings	4	Approved
<b>VO146</b>	Stage 2 Road Redesign	6	Approved

There are number of unresolved commercial issues some of which may have to be resolved by senior management

## 6.0 FINANCE

The table below summarises the invoices and payment status.

<b>Claim Description</b>	<b>Invoice no.</b>	<b>Amount</b>	<b>Claim/Invoice Status</b>
<b>W195 Progress Claim 1</b>	Invoice # 1	\$ 879,128.59	Paid
<b>W195 Progress Claim 2</b>	Invoice # 2	\$ 1,428,346.00	Paid
<b>W195 Progress Claim 3</b>	Invoice # 3	\$ 1,246,918.00	Paid
<b>W195 Progress Claim 4</b>	Invoice # 4	\$ 2,341,562.00	Paid
<b>W195 Progress Claim 5</b>	Invoice # 5	\$ 2,269,089.00	Paid
<b>W195 Progress Claim 6</b>	Invoice #6	\$ 1,652,403.00	Paid
<b>W195 Progress Claim 7</b>	Invoice #7	\$ 2,039,696.00	Paid
<b>W195 Progress Claim 8</b>	Invoice #8	\$ 1,764,615.00	Paid
<b>W195 Progress Claim 9</b>	Invoice #9	\$ 2,037,494.00	Paid
<b>W195 Progress Claim 10</b>	Invoice #10	\$ 2,540,706.00	Paid
<b>W195 Progress Claim 11</b>	Invoice #11	\$ 3,296,966.00	Paid
<b>W195 Progress Claim 12</b>	Invoice #12	\$1,309,013.00	Paid
<b>W195 Progress Claim 13</b>	Invoice #13	\$1,208,270.00	Paid
<b>W195 Progress Claim 14</b>	Invoice #14	\$ 967,609.00	Paid
<b>W195 Progress Claim 15</b>	Invoice #15	\$ 714,741.00	Paid
<b>W195 Progress Claim 16</b>	Invoice #16	\$ 582,416.00	Paid
<b>W195 Progress Claim 17</b>	Invoice #17	\$ 723,083.00	Paid
<b>W195 Progress Claim 18</b>	Invoice #18	\$ 614,612.00	Paid
<b>W195 Progress Claim 19</b>	Invoice #19	\$ 502,532.00	Paid
<b>W195 Progress Claim 20</b>	Invoice #20	\$ 480,610.00	Paid



W195 Progress Claim 21	Invoice #21	\$ 327,361.10	Paid
W195 Progress Claim 22	Invoice #22	\$ 170,888.00	Paid
W195 Progress Claim 23	Invoice #23	\$ 304,322.00	Paid
W195 Progress Claim 24	Invoice #24	\$ 0.00	Paid
W195 Progress Claim 25	Invoice #25	\$ 0.00	Paid
W195 Progress Claim 26	Invoice #26	\$ 55,051.00	Paid
W195 Progress Claim 27	Invoice #27	\$ 303,036.00	Paid
W195 Progress Claim 28	Invoice #28	\$ 280,348.00	Paid
W195 Progress Claim 29	Invoice #29	\$ 341,270.00	Paid
W195 Progress Claim 29A	Invoice #29A	\$ 417,372.00	Paid
W195 Progress Claim 30	Invoice #30	\$ 252,965.00	Paid
W195 Progress Claim 31	Invoice #31	\$0.00/\$297,940.00	On hold/in dispute
W195 Progress Claim 32	Invoice #32	\$0.00/\$300,331.00	On hold/in dispute
W195 Progress Claim 33	Invoice #33	\$0.00/\$263,330.00	On hold/in dispute
W195 Progress Claim 34	Invoice #34	\$0.00/\$164,274.00	On hold/in dispute
W195 Progress Claim 35	Invoice #35	\$244,150.00	Pending

## 7.0 PROGRAMME

A revised programme has been produced which encompasses the remaining works and the most recent version is included in App C.

The programme has been constructed with Microsoft Project and will be managed by site, it will remain a live document which will be continually updated as circumstances dictate.

### Construction/Completion Summary

- The issues concerning sludge build up within the lamella clarifiers is now subject to negotiation with RWCC
- Raw Water pumps have been returned to site and installed including electrical termination, commissioning to commence 1<sup>st</sup> week of July.
- Raw water Intake - Revetment rock & gabions 95%, riverbank rehabilitation targeted for completion by early July.
- 2 x clearwater pumps have been returned and reinstalled, remaining 4 are expected back on site 1<sup>st</sup> week of July
- Clearwater discharge manifolds – installation of new flanges is expected to be complete by mid June
- PLC rewire is complete
- Filter building plumbing issues have been 70% completed with a view to obtaining plumbing certificates and certificate of occupancy by early July
- Road works – transitions to existing roads outstanding
- Filters - final commissioning outstanding
- All other miscellaneous works, footpaths & landscaping, random slabs, additional drainage is targeted for completion by July 2018.

## **8.0 QUALITY**

Production of Inspection and Test Reports (ITPs) continues for civil/structural, mechanical and electrical works across the site.

We continue to work through finalising the quality issues with some of fabricated equipment with many of the issues now closed out. In some instances, remedial works have been required to meet the aspects of the specification and we are working with suppliers as needed to remedy these.

## **9.0 ENVIRONMENTAL**

Project Construction Environmental Management Plan continues to be implemented.

The weekly monitoring of the flying fox colony near the Raw Water Intake has ceased as at the 31/3/18

## **10.0 INDUSTRIAL RELATIONS**

No issues.

## **11.0 DESIGN AND TECHNICAL**

Design is 98% complete, misc mech & elec remain e.g. brackets & supports.

## **12.0 COMMISSIONING**

Raw Water Pumps 80%  
Lamella Clarifier – Train one 95%, train two 95%  
Lamella Sludge Pumps 95%  
PLC sequencing 90%  
Instrument Wet Rack 95%  
Sample Pumps 95%  
Filters 85%  
Backwash Pumps 95%  
Washwater Pumps 95%  
Process Water Pumps 95%  
Chemical Dosing 90%  
Clearwater Storage 95%  
Clearwater Pumps 90%

## **13.0 STAKEHOLDERS**

The UGL site have continued to engage with other contractors on site as well RWCC staff and construction teams and no issues arising.

## 14.0 SITE PROGRESS



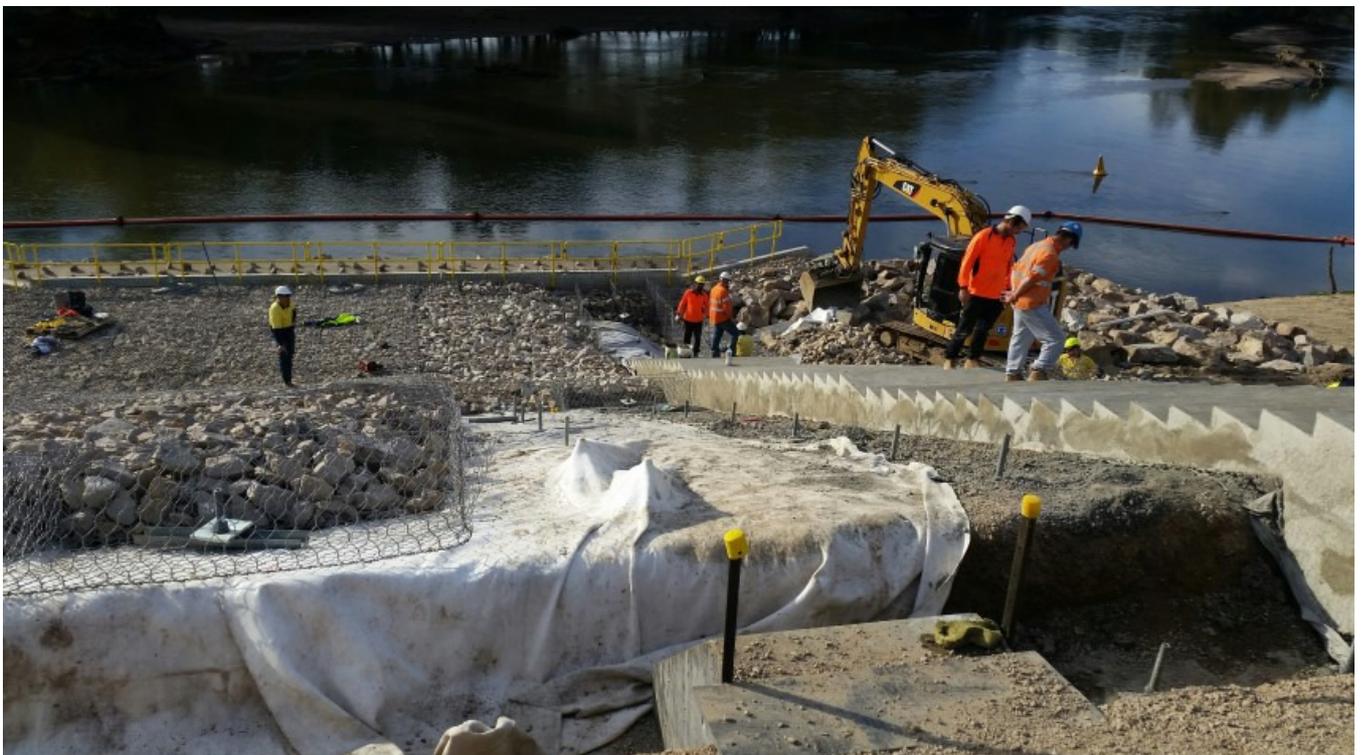
Raw Water Intake



Raw Water Intake



Raw Water Intake



Raw Water Intake



Raw Water Intake



Site General

## APPENDIX A – SCOPE OF WORKS SUMMARY

The project scope of works is to replace the Wagga Wagga Water Treatment Plant (WTP) to provide additional process capacity and asset reliability to produce up to 55ML/day of water for the residents of Wagga Wagga.

The WTP shall be designed to operate at a treated water production rate anywhere between 60 ML/d (695 L/s) and 22 ML/d (255 L/s).

The main treatment process of the WTP shall include coagulation and flocculation, inclined plate clarification, dual media filtration, chlorination, and fluoridation. Process wastewater shall be managed using gravity thickening and mechanical dewatering.

Product water shall be produced to meet the quality requirements of the specification and shall treat the required quality. The project target completion periods are for a design and construction period of 60 weeks, followed by a 10 week commissioning and proving period.

The scope of on-site works for UGL Engineering and its subcontractors as described in the contract are limited to the following;

The new water treatment facility shall consist of the following elements for a new 60ML/d Water Treatment Plant:

- Raw water intake and pumping station. The intake would be constructed within the river. The pumping station would be built on Crown Land adjacent to the WTP on the bank of the Murrumbidgee River to supply raw water to the plant;
- Alum and polymer dosing systems;
- Inclined plate clarifiers (Lamella clarifiers);
- Six dual media filters including backwash pumps and air scour blowers;
- Chlorine storage and dosing system and channel-type static mixer for clear water storage;
- Fluoride dosing system;
- pH correction dosing systems;
- Dewatering building with two new centrifuges to dewater sludge material produced from clarification and filtration during the water treatment process.
- Backwash wastewater collection tank and pumping station for the wastewater produced from the clarification and filtration process;
- Clear water system upgrade including a new 3 ML clear water storage tank and low level and high level pumping stations each fitted with three pumps;
- Electrical works including switch-rooms, automation and control infrastructure, electrical substations and two new 1500kVA transformers;
- Filter wastewater collection sump and transfer pumps;
- Pipework and valves;
- Control room, water testing and analysing facilities;
- Internal access roads;

UGL is responsible for undertaking the detailed design, construction, commissioning, training and handover for aspects of the scope of works above.

UGL will also provide post completion technical support comprising, where necessary some site visits, to assist RWCC in operating and optimising the plant.



**APPENDIX B – MONTHLY SAFETY REPORT**

## HSSE Monthly Safety Report – June 2018

### 1.0 Overview Statistics

	May 2018	Total to Date
UGL Hours	1,000	74,260
Subcontractor hours	3450	182,486
Total Site Hours	4450	256,746
LTIFR: Target <.50		3.89
TRIFR: Target 2.70	0	0
MTIFR:		3.89
Lost Time Injuries (LTI)	0	1
Days lost to LTI	0	71
Medical Treatment Injuries (MTI)	0	1
1 <sup>st</sup> Aid Injuries	1	10
<b>Incidents:</b>		
Injury	1	12
Damage/ Loss	0	31
Near Miss	0	52
Hazard	6	175
Report Only	1	15
Journey Incident	0	1
Non-work-related injury	0	0
Environmental	0	14
<b>Safety Initiatives:</b>	0	13
Workplace Safety Inspections	9	734
Environmental Inspections	3	108
Safety Conversations (UGL)	6	1,146

Utake 5 (UGL)	70	6178
Hazobs	6	567
Site audit (e.g. Plant pre-start)	4	112
SWMS reviews	6	387
Site inductions	4	773
Tool box meetings	4	108
Training hours	0	142
Plant delivery inspections	6	214
Checkit compliance (UGL)	100%	100%
UGL/ External Audits	0	4
Alcohol Breath tests	68	4025
Drug tests	0	176

## 2.0 Incident Summary

### The following incidents occurred on site in June 2018.

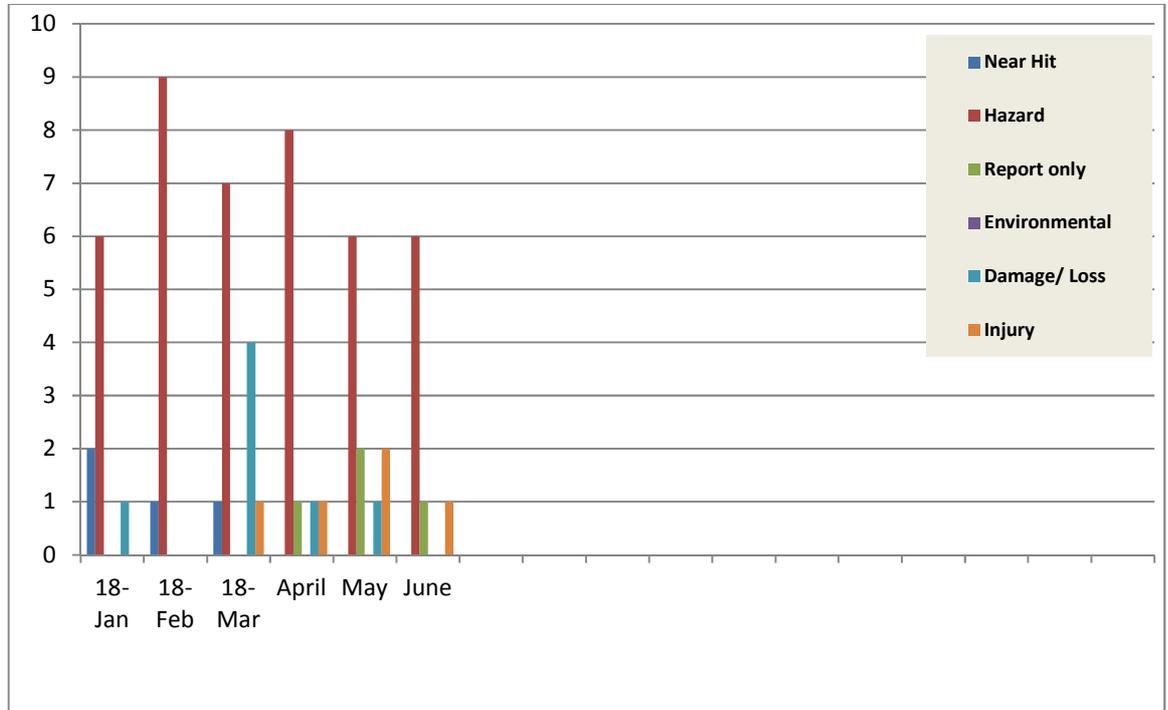
**1<sup>st</sup> Aid Injury:** Electrician was drilling a hole into a length of electrical steel cable tray, the cable tray moved and struck the electrician's index finger on his left hand causing a minor laceration- Electrician was not wearing gloves at the time of the injury

**Actions:** Electrician provided with 1st aid and laceration cleaned and treated. Electrician taken to local doctor for tetanus injection as he has not had and tetanus shot for several years. Electrician has returned to work 3.10pm 28/6/2018

**Report Only:** During the work task of concreting stairs access into the raw water pump location a concreter reported that he had aggravated pre-existing condition with his knee

**Actions:** The concrete subcontractor supervisor took the concreter to medical center where the knee was treated by medical personnel and the concreter returned to work on site 1 hour after aggravating his knee complaint

### Wagga Wagga WTP Incident trends



- June 2018 4 Site inductions not including visitor’s inductions
- Site wide training in UGL Isolation procedure
- Continuing education of local subcontractors regarding SWMS & Safety Culture Development/ Awareness
- Safety Award June 2018

### 3.0 Project Safety Initiatives for July 2018

- **Training:**
- UGL Isolation procedure
- SWMS development by subcontractors
- Continuing training site personnel in UGL Utake 5 and HAZOB
- UGL new Critical Risk Protocols all site personnel
- Continuing with Project Manager Monthly Safety Awards

➤ **UGL Daily Pre-start meetings:**

Daily site hazards, site hazard board updates, continuing discussion of subcontractor interfacing requirement to, site personnel consultation

➤ **Subcontractor** individual pre-start meetings conducted after site pre-start. Subcontractor individual work tasks & hazards involved

➤ **UGL Weekly Toolbox meeting:**

- Site incidents / actions, industry safety alerts, continuing discussion of site safety hazards, site personnel consultation. Update of the site notice board.
- Weekly supervisor/subcontractor HSE meeting discussing HSE initiatives for the project as well as subcontractor interfaces.

➤ **Site Safety Inspections:**

Continuing compliance with UGL WWWT Project Safety Management Plan via:

- ✓ Site safety inspections
- ✓ UGL Safety conversations
- ✓ UGL UTake 5
- ✓ UGL Hazobs
- ✓ Plant operator pre-start inspection audits
- ✓ SWMS reviews, work permit audits

➤ **Fitness for Work:**

- Continuing Alcohol testing at pre-start meetings
- Drug testing as per Project Safety
- Management Plan

➤ Continuing Site Environmental inspections and education to subcontractors regarding environmental compliance.

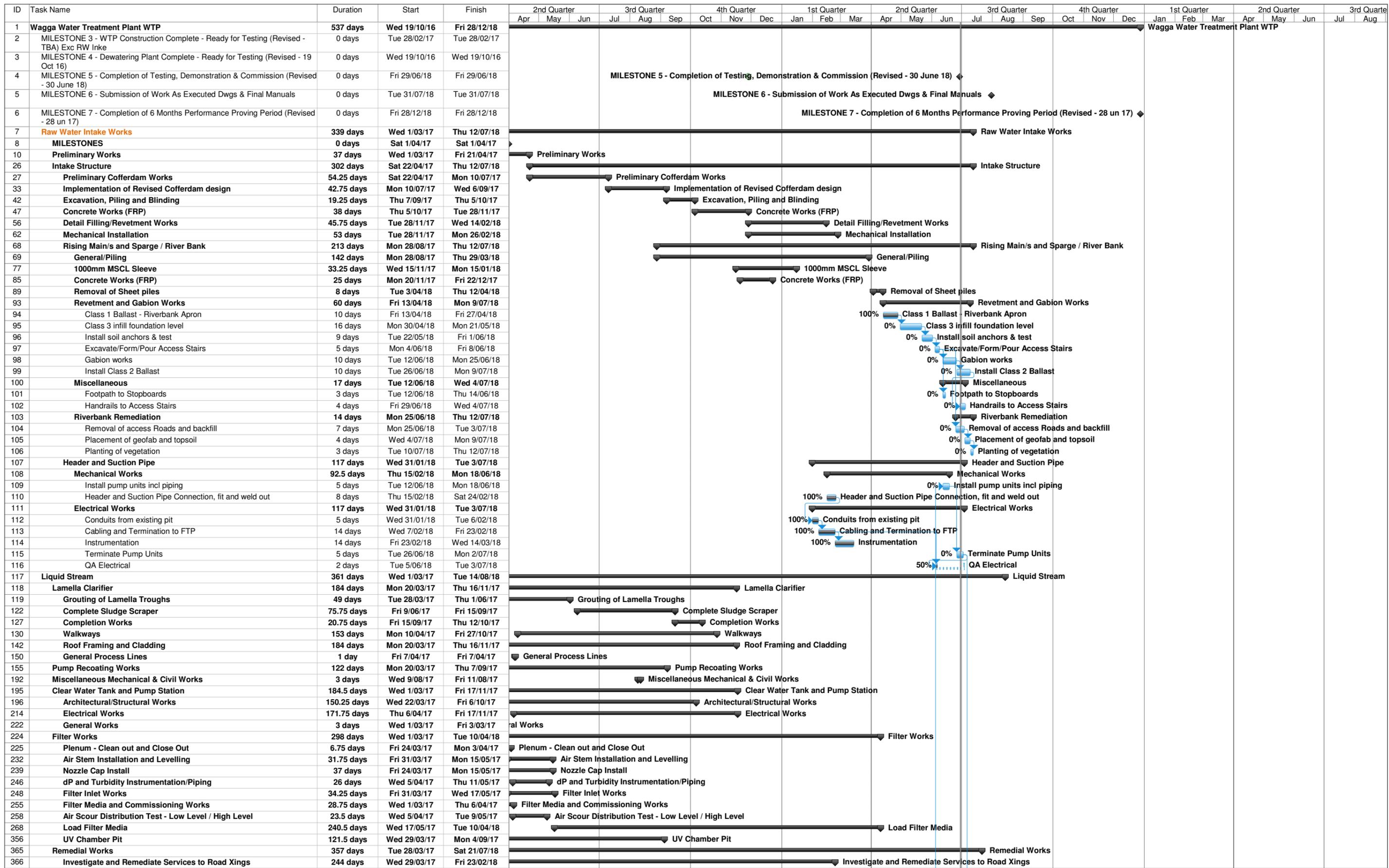
Mark Hunter

UGL Safety Advisor

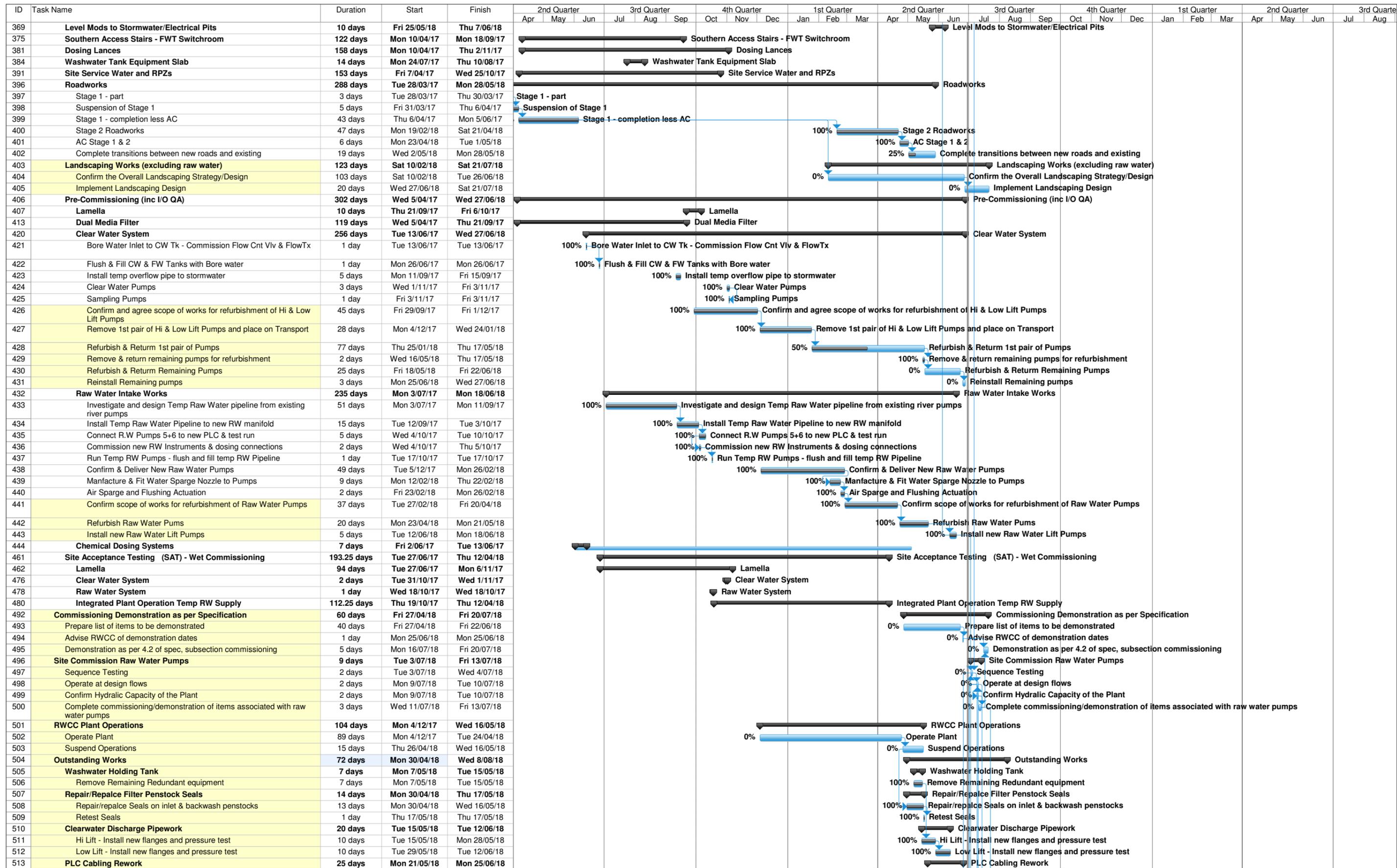


## **APPENDIX C – PROJECT PROGRAMME**

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Date: Sat 30/06/18 File : Wagga WTP Schedule to Complete.180630.mp	<ul style="list-style-type: none"> <li>Task </li> <li>Critical Task </li> <li>Milestone </li> <li>Summary </li> <li>Rolled Up Task </li> </ul>	<ul style="list-style-type: none"> <li>Rolled Up Critical Task </li> <li>Rolled Up Milestone </li> <li>Rolled Up Progress </li> <li>Split </li> <li>External Tasks </li> </ul>	<ul style="list-style-type: none"> <li>Project Summary </li> <li>Group By Summary </li> <li>Inactive Task </li> <li>Inactive Task </li> <li>Inactive Milestone </li> </ul>	<ul style="list-style-type: none"> <li>Inactive Summary </li> <li>Manual Task </li> <li>Duration-only </li> <li>Manual Summary Rollup </li> <li>Manual Summary </li> </ul>	<ul style="list-style-type: none"> <li>Start-only </li> <li>Finish-only </li> <li>Critical </li> <li>Critical Split </li> <li>Progress </li> </ul>	<ul style="list-style-type: none"> <li>Deadline </li> </ul>
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Date: Sat 30/06/18  
 File : Wagga WTP Schedule to Complete.180630.mp

Task		Rolled Up Critical Task		Project Summary		Inactive Summary		Start-only		Deadline	
Critical Task		Rolled Up Milestone		Group By Summary		Manual Task		Finish-only			
Milestone		Rolled Up Progress		Inactive Task		Duration-only		Critical			
Summary		Split		Inactive Task		Manual Summary Rollup		Critical Split			
Rolled Up Task		External Tasks		Inactive Milestone		Manual Summary		Progress			

Drawn: Doug Anderson  
 Checked:  
 Authorised:

Wagga Wagga WTP





# PROJECT STATUS REPORT



## July 2018

PROJECT:	Wagga Wagga WTP Upgrade
CLIENT:	Riverina Water County Council
CONTRACT NO.:	W195
UGL PROJECT NO.:	3200-0485
REPORT DATE:	15th August 2018
REPORT NO.:	35
PROJECT MANAGER:	Doug Anderson
PREPARED BY:	Doug Anderson



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## 1.0 SUMMARY

Project progress in June was focussed on the following activities:

Electrical works – Termination of RW Pumps complete, wiring of sludge transfer pump complete.

Raw Water Intake – Civil work complete, repaired raw water pumps (2) installed

Clearwater Pump Station Building – All refurbished Hi & Low Lift pumps installed,

Lamella Clarifiers – Issues with sludge build-up etc subject to negotiations with RWCC.

Filters – Operating sequence commissioned

Civil/plumbing – Remediation of plumbing in filter building complete awaiting Certificate of Occupancy, certification of site stormwater & sewage complete, landscaping & footpaths complete.

Safety performance across the site continues to be well managed.

## 2.0 SCOPE OF WORK

The project scope of works is to replace the Wagga Wagga Water Treatment Plant (WTP) to provide additional process capacity and asset reliability to produce up to 55ML/day of water for the residents of Wagga Wagga.

## 3.0 HSSE

The total hours worked on the project this month were 4,125 hours. Subcontractor hours recorded on site were 2650. Total hours worked on the project to date is 260,871.

### **The following incidents occurred on site in July 2018.**

**Report Only:** Rapley's labourer was raking soil for preparation for hydro mulching, when he was asked by UGL Construction Manager if he was feeling ill. The Labourer answered that he was and he was taken to site main office and UGL HSSE personnel assessed him. He reported the he was feeling cold and groggy- he was asked if he had hit his head or someone else/ thing had hit his head and he answered no, he reported feeling that he had blacked out while lifting up a wheel barrow, he was visually observed shaking specially hands and arms, questions regarding him taken any illegal substance was asked and no was the reply. His vision, comprehension and pulse (slow) was checked and his feet raised onto another chair a jacket was provide for warmth. He employer was called and UGL recommended that he was taken to a doctor. While under observation by UGL HSSE he reported that he was now feeling hot and sweaty, his pulse rate was again checked and his pulse rate had increased remarkably. Water was provided for to drink slowly which he did after 20 minutes he reported a head ache had started. The Ill personnel was asked several times regarding Diabetes, blood pressure issues or any other illness that could be causing this event - no was the reply.

**Actions:** The ill personnel employer arrived on site and arrangements was made for him to taken to local doctors for assessment. No injury or incident had reported by the ill personnel or did any site personnel working with the ill personnel notice any incident or occurrence involving the ill personnel.

The Safety Report for this month is contained in Appendix B.

## 4.0 RISK / CRITICAL ACTION AREAS

Summary of Top Risks: -

Risk Description	Potential Impact	Control Measures
Quality and specification issues	Additional resources required for investigation and rework.	Engage with subcontractors & suppliers about prompt rectification of issues
Commissioning Program Overrun	Plant not ready for performance trial by the required date.	Liaise with RWCC to ensure storage has capacity for design flows

## 5.0 CONTRACT/COMMERCIAL

### 5.1 Progress Claim

The table below summarises the progress to the 31st July.

#### WAGGA WAGGA WATER TREATMENT PLANT

Item No.	Schedule of Prices	Total Claim to date	
		% complete	Claim Value
1	Provision of Preconstruction Activities		
	Preconstruction Activities subtotal (1)	100%	
2	Provision of Project Management and Site Running Activities		
	Project Management Activities subtotal (2)	100%	
3	Complete all additional designs, where required		
	Design and Documentation subtotal (2)	100%	
4	Intake Works		
	Intake Works - General subtotal (3)	99%	
5	Raw Water Piping System		
	Raw Water Piping subtotal (4)	98%	
6	Lamella & Rapid Mix Tank		
	Lamella & Rapid Mix Tank subtotal (5)	100%	
7	Filters		
	Filters subtotal (7)	100%	
8	Filter Water Tank & Backwash		
	Filter Water Tank & Backwash subtotal (8)	100%	
9	Machinery Room		
	Machinery Room subtotal (9)	100%	
10	Clear Water Storage & Pumping System		
	Clear Water subtotal (10)	100%	
11	Aluminium Dosing Plant		
	Aluminium Dosing Plant subtotal (11)	100%	



12	PACL Dosing Plant		
	PACL Dosing Plant subtotal (12)	100%	
13	Caustic Soda Dosing Plant Facilities		
	Caustic Soda Dosing Plant subtotal (13)	100%	
14	Sodium Hydrochlorite Dosing Plant		
	Sodium Hydrochlorite Dosing Subtotal (14)	100%	
15	Polymer Dosing Plant		
	Polymer Dosing Plant subtotal (15)	100%	
16	Fluoride Dosing Plant		
	Fluoride Dosing subtotal (16)	100%	
17	Other Items		
	Other Items subtotal (17)	100%	
18	Electrical Items		
	Electrical subtotal (18)	99%	
19	Testing Demonstration Commissioning		
	Testing Demonstration and Commissioning (19)	28%	
20	Post Process Proving		
	Post Process Proving (20)	24%	
21	Sludge Handling & Dewatering System		
	Sludge Handling subtotal (19)	99%	
22	Other Options Accepted		
	Options subtotal (20)	100%	
23	Variations		
	Variations Subtotal	100%	

## 5.2 Variations

The table below provides a summary of the approved variations against the contract.

Variation No.	Title	Amount (\$ 000) Excl. GST	Status
VO01	Control System Design for fully networked plant	15	Approved
VO02	AC Road Surface	101	Approved
VO03	Future UV	21	Approved
VO04	Disabled Access	278	Approved
VO05	Aggressive Water Response	79	Approved
VO06	NSC02 – removal of Gyprock	5	Approved
VO07	Transformer supplied by principle	- 244	Approved
VO09	Chemical Dosing – Alum Storage	81	Approved
VO10	Switchboards additional spare capacity	8	Approved
VO11	Lamella plate capacity	45	Approved
VO12	Sewer pump station	5	Approved
VO13	Manual Penstocks on Clarifier Inlet	9	Approved
VO14	Increased bearing capacity in the filters	31	Approved
VO15	Waste in excavation NSC04 & NSC06	10	Approved
VO16	Asbestos in Levee	26	Approved
VO17	Warehouse Facility	- 18	Approved
VO18	Filter Gallery Trenches	41	Approved
VO19	Additional 25mm cover to Slab	8	Approved
VO20	Raw Water Intake	105 260	20A Approved 20B Approved
VO21	Material Compatibility Changes	- 17	Approved
VO23	Pits under existing centrifuge building - NSC10	8	Approved
VO24	Clear Water Pumps Mechanical Seal	1.5	Approved
VO25	Bomen Line	80	Approved
VO26	NSC11 Material Excavated under UGL Carpark	27	Approved
VO27	NSC12 Asbestos at Wash Water Holding Tank	3	Approved
VO29	Filter Water Overflow Changes	-80	Approved
VO30	Site Road Realignment	17	Approved
VO31	Roof Access Ladder to Centrifuge Building	14	Approved
VO33	Flowmeter Modbus Communications	22	Approved
VO34	Caustic Building Lighting Changes	3	Approved
VO36	Sludge Thickener Infill Slab	90	Approved
VO40	Street Light Fittings	9	Approved



<b>VO43</b>	S&I 4.8 to 9.6 Garnet Filter Media	86	Approved
<b>VO44</b>	Lamella Corrosion	-300	Approved
<b>VO45</b>	Concrete slab between filters and Lamella	1	Approved
<b>VO46</b>	NSC16 Remove Concrete Slab	4	Approved
<b>VO49</b>	Bore Water Pressure Line Changes	9	Approved
<b>VO50</b>	Filter Building Pop out Power Outlets	2	Approved
<b>VO53</b>	NSC17 Asbestos at A2 to A203	4	Approved
<b>VO56</b>	Rework External Chemical Delivery Pipework	15	Approved
<b>V061</b>	Raw Water Piping HAZOP Changes	4	Approved
<b>VO73</b>	Road Subgrade Replacement	26	Approved
<b>VO140</b>	Power Failure Alarm Modification	5	Approved
<b>VO141</b>	Raw Water Disassembly Frame Footings	2	Approved
<b>VO142</b>	Chemical Building Forklift Access Ramps	12	Approved
<b>VO143</b>	Conversion of Hi & Low Lift Pumps to Mechanical Seals	64	Approved
<b>VO144</b>	Supply & Install additional WAPs	8	Approved
<b>VO145</b>	Surge Tank Footings	4	Approved
<b>VO146</b>	Stage 2 Road Redesign	6	Approved

There are number of unresolved commercial issues some of which may have to be resolved by senior management

## 6.0 FINANCE

The table below summarises the invoices and payment status.

<b>Claim Description</b>	<b>Invoice no.</b>	<b>Amount</b>	<b>Claim/Invoice Status</b>
<b>W195 Progress Claim 1</b>	Invoice # 1	\$ 879,128.59	Paid
<b>W195 Progress Claim 2</b>	Invoice # 2	\$ 1,428,346.00	Paid
<b>W195 Progress Claim 3</b>	Invoice # 3	\$ 1,246,918.00	Paid
<b>W195 Progress Claim 4</b>	Invoice # 4	\$ 2,341,562.00	Paid
<b>W195 Progress Claim 5</b>	Invoice # 5	\$ 2,269,089.00	Paid
<b>W195 Progress Claim 6</b>	Invoice #6	\$ 1,652,403.00	Paid
<b>W195 Progress Claim 7</b>	Invoice #7	\$ 2,039,696.00	Paid
<b>W195 Progress Claim 8</b>	Invoice #8	\$ 1,764,615.00	Paid
<b>W195 Progress Claim 9</b>	Invoice #9	\$ 2,037,494.00	Paid
<b>W195 Progress Claim 10</b>	Invoice #10	\$ 2,540,706.00	Paid
<b>W195 Progress Claim 11</b>	Invoice #11	\$ 3,296,966.00	Paid
<b>W195 Progress Claim 12</b>	Invoice #12	\$1,309,013.00	Paid
<b>W195 Progress Claim 13</b>	Invoice #13	\$1,208,270.00	Paid
<b>W195 Progress Claim 14</b>	Invoice #14	\$ 967,609.00	Paid
<b>W195 Progress Claim 15</b>	Invoice #15	\$ 714,741.00	Paid
<b>W195 Progress Claim 16</b>	Invoice #16	\$ 582,416.00	Paid
<b>W195 Progress Claim 17</b>	Invoice #17	\$ 723,083.00	Paid
<b>W195 Progress Claim 18</b>	Invoice #18	\$ 614,612.00	Paid



W195 Progress Claim 19	Invoice #19	\$ 502,532.00	Paid
W195 Progress Claim 20	Invoice #20	\$ 480,610.00	Paid
W195 Progress Claim 21	Invoice #21	\$ 327,361.10	Paid
W195 Progress Claim 22	Invoice #22	\$ 170,888.00	Paid
W195 Progress Claim 23	Invoice #23	\$ 304,322.00	Paid
W195 Progress Claim 24	Invoice #24	\$ 0.00	Paid
W195 Progress Claim 25	Invoice #25	\$ 0.00	Paid
W195 Progress Claim 26	Invoice #26	\$ 55,051.00	Paid
W195 Progress Claim 27	Invoice #27	\$ 303,036.00	Paid
W195 Progress Claim 28	Invoice #28	\$ 280,348.00	Paid
W195 Progress Claim 29	Invoice #29	\$ 341,270.00	Paid
W195 Progress Claim 29A	Invoice #29A	\$ 417,372.00	Paid
W195 Progress Claim 30	Invoice #30	\$ 252,965.00	Paid
W195 Progress Claim 31	Invoice #31	\$297,940.00	On hold/in dispute
W195 Progress Claim 32	Invoice #32	\$300,331.00	On hold/in dispute
W195 Progress Claim 33	Invoice #33	\$263,330.00	On hold/in dispute
W195 Progress Claim 34	Invoice #34	\$164,274.00	On hold/in dispute
W195 Progress Claim 35	Invoice #35	\$244,150.00	On hold/in dispute
W195 Progress Claim 36	Invoice #36	\$353,444.00	Pending

## 7.0 PROGRAMME

A completion programme has been produced which details the remaining works and commissioning activities, included in App C.

### Construction/Completion Summary

- The issues concerning sludge build up within the lamella clarifiers is now subject to negotiation with RWCC
- Raw Water pumps have been returned to site and installed including electrical termination, commissioning to commence 1<sup>st</sup> week of July.
- Raw water Intake – Civil works complete
- All clearwater pumps have been returned and installed.
- Clearwater discharge manifolds – Repaired and tested
- Filter building plumbing issues completed, application with Wagga Council for certificate of occupancy.
- Filters – operating sequence of all 6 filters has been commissioned.
- Footpaths & landscaping complete

## 8.0 QUALITY

Production of Inspection and Test Reports (ITPs) continues for civil/structural, mechanical and electrical works across the site.

We continue to work through finalising the quality issues with some of fabricated equipment with many of the issues now closed out. In some instances, remedial works have been required to meet the aspects of the specification and we are working with suppliers as needed to remedy these.

## **9.0 ENVIRONMENTAL**

Project Construction Environmental Management Plan continues to be implemented.

## **10.0 INDUSTRIAL RELATIONS**

No issues.

## **11.0 DESIGN AND TECHNICAL**

Design is 98% complete.

## **12.0 COMMISSIONING**

Raw Water Pumps 50%  
Lamella Clarifier – Train one 95%, train two 95%  
Lamella Sludge Pumps 95%  
PLC sequencing 90%  
Instrument Wet Rack 95%  
Sample Pumps 95%  
Filters 85%  
Backwash Pumps 95%  
Washwater Pumps 95%  
Process Water Pumps 95%  
Chemical Dosing 90%  
Clearwater Storage 95%  
Clearwater Pumps 90%

## **13.0 STAKEHOLDERS**

The UGL site have continued to engage with other contractors on site as well RWCC staff and construction teams and no issues arising.

## 14.0 SITE PROGRESS



Raw Water Pumps Install



Raw Water Pumps Install



Raw Water Intake



Raw Water Intake



Raw Water Intake



Site General



Site General



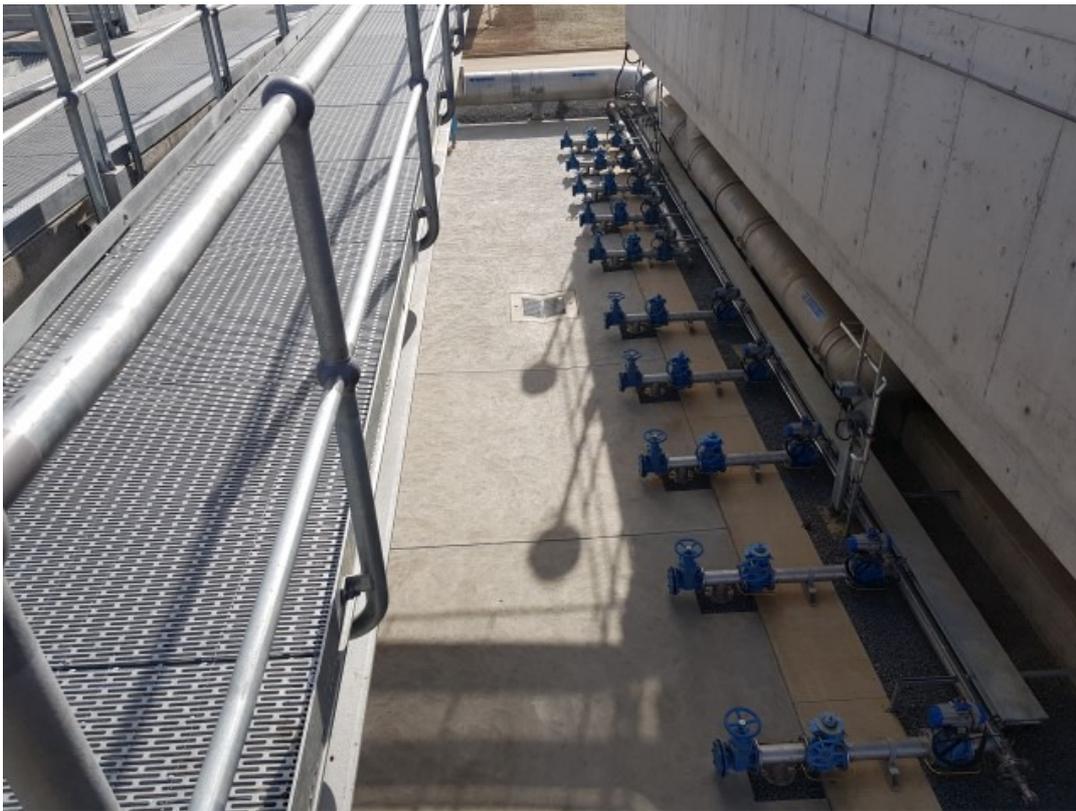
Site General



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Site General

## APPENDIX A – SCOPE OF WORKS SUMMARY

The project scope of works is to replace the Wagga Wagga Water Treatment Plant (WTP) to provide additional process capacity and asset reliability to produce up to 55ML/day of water for the residents of Wagga Wagga.

The WTP shall be designed to operate at a treated water production rate anywhere between 60 ML/d (695 L/s) and 22 ML/d (255 L/s).

The main treatment process of the WTP shall include coagulation and flocculation, inclined plate clarification, dual media filtration, chlorination, and fluoridation. Process wastewater shall be managed using gravity thickening and mechanical dewatering.

Product water shall be produced to meet the quality requirements of the specification and shall treat the required quality. The project target completion periods are for a design and construction period of 60 weeks, followed by a 10 week commissioning and proving period.

The scope of on-site works for UGL Engineering and its subcontractors as described in the contract are limited to the following;

The new water treatment facility shall consist of the following elements for a new 60ML/d Water Treatment Plant:

- Raw water intake and pumping station. The intake would be constructed within the river. The pumping station would be built on Crown Land adjacent to the WTP on the bank of the Murrumbidgee River to supply raw water to the plant;

- Alum and polymer dosing systems;
- Inclined plate clarifiers (Lamella clarifiers);
- Six dual media filters including backwash pumps and air scour blowers;
- Chlorine storage and dosing system and channel-type static mixer for clear water storage;
- Fluoride dosing system;
- pH correction dosing systems;
- Dewatering building with two new centrifuges to dewater sludge material produced from clarification and filtration during the water treatment process.
- Backwash wastewater collection tank and pumping station for the wastewater produced from the clarification and filtration process;
- Clear water system upgrade including a new 3 ML clear water storage tank and low level and high level pumping stations each fitted with three pumps;
- Electrical works including switch-rooms, automation and control infrastructure, electrical substations and two new 1500kVA transformers;
- Filter wastewater collection sump and transfer pumps;
- Pipework and valves;
- Control room, water testing and analysing facilities;
- Internal access roads;

UGL is responsible for undertaking the detailed design, construction, commissioning, training and handover for aspects of the scope of works above.

UGL will also provide post completion technical support comprising, where necessary some site visits, to assist RWCC in operating and optimising the plant.



**APPENDIX B – MONTHLY SAFETY REPORT**

## HSSE Monthly Safety Report - July 2018

### 1.0 Overview Statistics

	July 2018	Total to Date
UGL Hours	1,475	75,735
Subcontractor hours	2650	185,136
Total Site Hours	4125	260,871
LTIFR: Target <.50		3.83
TRIFR: Target 2.70	0	0
MTIFR:		3.83
Lost Time Injuries (LTI)	0	1
Days lost to LTI	0	71
Medical Treatment Injuries (MTI)	0	1
1 <sup>st</sup> Aid Injuries	0	10
<b>Incidents:</b>		
Injury	0	12
Damage/ Loss	0	31
Near Miss	0	52
Hazard	4	179
Report Only	1	16
Journey Incident	0	1
Non-work-related injury	0	0
Environmental	0	14
<b>Safety Initiatives:</b>	0	13
Workplace Safety Inspections	6	740
Environmental Inspections	2	110
Safety Conversations (UGL)	6	1,152

Utake 5 (UGL)	60	6238
Hazobs	4	571
Site audit (e.g. Plant pre-start)	2	114
SWMS reviews	2	389
Site inductions	6	779
Tool box meetings	2	110
Training hours	0	142
Plant delivery inspections	2	216
Checkit compliance (UGL)	100%	100%
UGL/ External Audits	0	4
Alcohol Breath tests	30	4055
Drug tests	0	176

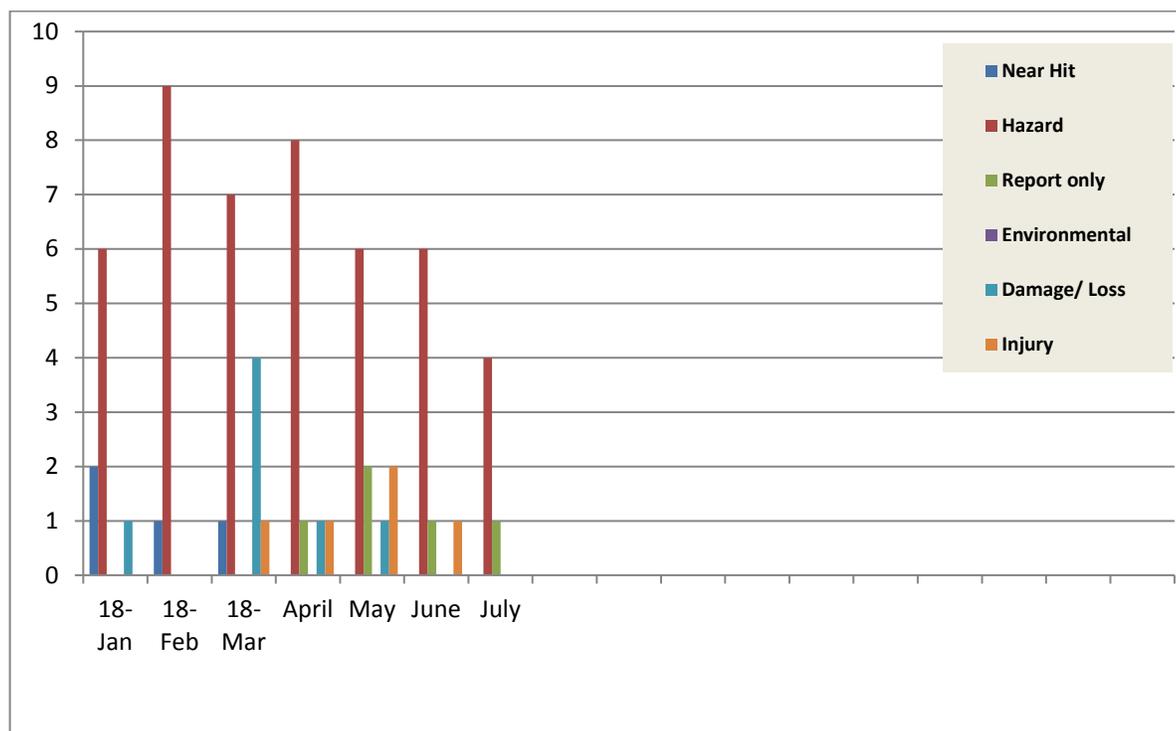
## 2.0 Incident Summary

### The following incidents occurred on site in July 2018.

**Report Only:** Rapley's labourer was raking soil for preparation for hydro mulching, when he was asked by UGL Construction Manager if he was feeling ill. The Labourer answered that he was and he was taken to site main office and UGL HSE personnel assessed him. He reported the he was feeling cold and groggy- he was asked if he had hit his head or someone else/ thing had hit his head and he answered no, he reported feeling that he had blacked out while lifting up a wheel barrow, he was visually observed shaking specially hands and arms, questions regarding him taken any illegal substance was asked and no was the reply. His vision, comprehension and pulse (slow) was checked and his feet raised onto another chair a jacket was provide for warmth. He employer was called and UGL recommended that he was taken to a doctor. While under observation by UGL HSE he reported that he was now feeling hot and sweaty, his pulse rate was again checked and his pulse rate had increased remarkably. Water was provided for to drink slowly which he did after 20 minutes he reported a head ache had started. The ill personnel was asked several times regarding Diabetes, blood pressure issues or any other illness that could be causing this event - no was the reply.

**Actions:** The ill personnel employer arrived on site and arrangements was made for him to taken to local doctors for assessment. No injury or incident had reported by the ill personnel or did any site personnel working with the ill personnel notice any incident or occurrence involving the ill personnel.

### Wagga Wagga WTP Incident trends



- July 2018 6 Site inductions not including visitor’s inductions
- Site wide training in UGL Isolation procedure
- Continuing education of local subcontractors regarding SWMS & Safety Culture Development/ Awareness

### 3.0 Project Safety Initiatives for 2018

- **Training:**
- SWMS development by subcontractors
- Continuing training site personnel in UGL Utake 5 and HAZOB
- UGL new Critical Risk Protocols all site personnel

➤ **UGL Daily Pre-start meetings:**

Daily site hazards, site hazard board updates, continuing discussion of subcontractor interfacing requirement to, site personnel consultation

➤ **Subcontractor** individual pre-start meetings conducted after site pre-start. Subcontractor individual work tasks & hazards involved

➤ **UGL Weekly Toolbox meeting:**

- Site incidents / actions, industry safety alerts, continuing discussion of site safety hazards, site personnel consultation. Update of the site notice board.

➤ **Site Safety Inspections:**

Continuing compliance with UGL WWTP Project Safety Management Plan via:

- ✓ Site safety inspections
- ✓ UGL Safety conversations
- ✓ UGL UTake 5
- ✓ UGL Hazobs
- ✓ Plant operator pre-start inspection
- ✓ SWMS reviews, work permit

➤ **Fitness for Work:**

- Continuing Alcohol testing at pre-start meetings
- Drug testing as per Project Safety Management Plan
- Management Plan

➤ Continuing Site Environmental inspections and education to subcontractors regarding environmental compliance.

Mark Hunter

UGL Safety Advisor



## **APPENDIX C – PROJECT PROGRAMME**

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ID	Task Name	Duration	Start	Finish	18/06	1 July	1 August	1 September	1 October	1 November	1 December	1 January	1 February	1 March
1	<b>Commissioning Completion</b>	<b>54 days</b>	<b>Tue 10/07/18</b>	<b>Fri 21/09/18</b>										
2	<b>Repair 2 x Raw Water Pumps</b>	<b>19 days</b>	<b>Tue 10/07/18</b>	<b>Fri 3/08/18</b>										
3	Pentair transport, repair and return	19 days	Tue 10/07/18	Fri 3/08/18										
4	<b>Sludge Handling Improvement</b>	<b>14 days</b>	<b>Tue 17/07/18</b>	<b>Fri 3/08/18</b>										
5	Write new code as per FD	4 days	Tue 17/07/18	Fri 20/07/18										
6	Install new code in PLC	4 days	Mon 23/07/18	Thu 26/07/18										
7	Test operational sequence	6 days	Fri 27/07/18	Fri 3/08/18										
8	<b>Install returned Raw Water Pumps</b>	<b>5 days</b>	<b>Mon 6/08/18</b>	<b>Fri 10/08/18</b>										
9	Install cable joints and re-terminate	2 days	Mon 6/08/18	Tue 7/08/18										
10	Bump test pumps	1 day	Wed 8/08/18	Wed 8/08/18										
11	Install pumps and pipework	2 days	Thu 9/08/18	Fri 10/08/18										
12	<b>Test returned pumps</b>	<b>2 days</b>	<b>Mon 13/08/18</b>	<b>Tue 14/08/18</b>										
13	Test pump 2	1 day	Mon 13/08/18	Mon 13/08/18										
14	Test pump 3	1 day	Mon 13/08/18	Mon 13/08/18										
15	Arrange with RWCC to draw down network & storage	1 day	Tue 14/08/18	Tue 14/08/18										
16	<b>Disinfect potable water site storage</b>	<b>3 days</b>	<b>Tue 14/08/18</b>	<b>Thu 16/08/18</b>										
17	Super chlorinate filters, filtered water holding tank and clearwater storage tank	2 days	Tue 14/08/18	Wed 15/08/18										
18	Neutralize and pump out	1 day	Thu 16/08/18	Thu 16/08/18										
19	<b>Re-Commission Hi &amp; Low Lift Pumps</b>	<b>3 days</b>	<b>Fri 17/08/18</b>	<b>Tue 21/08/18</b>										
20	Establish plant flow of 20-25ml/d	1 day	Fri 17/08/18	Fri 17/08/18										
21	Confirm operation of each Hi & Low lift pump	2 days	Mon 20/08/18	Tue 21/08/18										
22	<b>Demonstrate Plant Hydraulic capacity</b>	<b>3 days</b>	<b>Wed 22/08/18</b>	<b>Fri 24/08/18</b>										
23	Operate plant at 60ml/d	2 days	Wed 22/08/18	Thu 23/08/18										
24	Record power draw, pump efficiency of each combination of 2 pump operation	2 days	Wed 22/08/18	Thu 23/08/18										
25	Operate plant at 66ml/d to confirm capacity of channels and pipework (minimal run time)	1 day	Fri 24/08/18	Fri 24/08/18										
26	<b>Commission Fluoride Dosing</b>	<b>14 days</b>	<b>Mon 27/08/18</b>	<b>Thu 13/09/18</b>										
27	Confirmation date from RWCC of NSW Health site inspection/certification (date to be confirmed, nominal date used for programming purposes)	0 days	Wed 12/09/18	Wed 12/09/18										
28	Change bore water flowmeter output to new plant	1 day	Mon 27/08/18	Mon 27/08/18										
29	Prominent to pre-commission fluoride dosing	3 days	Wed 29/08/18	Fri 31/08/18										
30	Prominent to complete final commissioning and activation of fluoride dosing with NSW Health	2 days	Wed 12/09/18	Thu 13/09/18										
31	<b>Chemical Loading Bund Protective Coating</b>	<b>5 days</b>	<b>Mon 17/09/18</b>	<b>Fri 21/09/18</b>										
32	Prepare concrete surface (Start date to be confirmed, nominal date used for programming purposes)	1 day	Mon 17/09/18	Mon 17/09/18										
33	Install joint seals	2 days	Tue 18/09/18	Wed 19/09/18										
34	Apply epoxy primer	1 day	Thu 20/09/18	Thu 20/09/18										
35	Apply epoxy topcoat	1 day	Fri 21/09/18	Fri 21/09/18										

to be confirmed, nominal date used for programming purposes)

Wagga Commissioning Completion.180725.mpp

Task		Rolled Up Critical Task		Project Summary		Inactive Summary		Start-only		Deadline	
Critical Task		Rolled Up Milestone		Group By Summary		Manual Task		Finish-only			
Milestone		Rolled Up Progress		Inactive Task		Duration-only		Critical			
Summary		Split		Inactive Task		Manual Summary Rollup		Critical Split			
Rolled Up Task		External Tasks		Inactive Milestone		Manual Summary		Progress			

Drawn: Doug Anderson  
Checked:  
Authorised

#### 4. LAND MATTERS FOR THE CONSTRUCTION OF RESERVOIRS AT GLENOAK, WAGGA WAGGA

**RECOMMENDATION:** That Council:

- 1) Purchase 3750 m<sup>2</sup> of land on Lot 53 DP 1181931 for the construction of two 4ML reservoirs at Glenoak for the amount referred to in this report.
- 2) Establish an easement of approximately 3600 m<sup>2</sup> on Lot 53 DP 1181931 for the construction of pipeline and access road.
- 3) Delegate authority to the General Manager to negotiate the land purchase and establish the easement for the pipeline and access road.
- 4) Affix Council's Common Seal to documents as required.
- 5) In accordance with the Local Government Act 1993 (as amended) classify the land as operational upon acquisition.

#### **Background**

Riverina Water is planning to construct two 4ML water supply reservoirs at Glenoak. The two reservoirs will provide sufficient water storage to supply the growing demand from Lloyd, Bourkelands and Glenoak. The first reservoir will be built in 2019 and the second one will be sometime in the future depending on the demands. The proposed reservoir site is approximately 220m south of the existing Glenoak reservoir as shown in the figure below.



Council has completed environmental, indigenous heritage and sediment and erosion control reports and submitted to WWCC for review. The geotechnical investigation and survey of the proposed reservoirs pad footprint were also completed.

#### **Financial consideration**

The compensation amount has been estimated by independent property valuers, Opteon. Riverina Water County Council (RWCC) has proposed compensation at \$10/m<sup>2</sup> ex GST to the landowner, Wagga Wagga City Council (WWCC), as estimated by OPTeon property group. The total proposed compensation to purchase land is \$37,500 ex GST.

Funding for the land matters is included in the current capital works budget.



Bede Spannagle  
**DIRECTOR OF ENGINEERING**

**QUESTIONS & STATEMENTS**

**CLOSURE OF MEETING TO THE PUBLIC**

**(Confidential Reports)**