

NOTICE OF MEETING

Dear Committee Members

You are requested to attend the following meeting of Council.

WATER AND WASTE STANDING COMMITTEE MEETING OF ISAAC REGIONAL COUNCIL

TO BE HELD ON
WEDNESDAY, 10 MARCH 2021
COMMENCING AT 1.00PM
COUNCIL CHAMBERS, MORANBAH

GARY STEVENSON PSM

Chief Executive Officer

GARY MURPHY

Committee Officer

Director Water and Waste

Committee Members:

Cr Simon West (Chair)

Mayor Anne Baker

Cr Greg Austen

Cr Kelly Veava

Cr Lyn Jones

LOCAL GOVERNMENT ACT 2009

Local Government Regulation 2012

Chapter 8, Part 2 Local Government Meetings and Committees

Division 1A, Requirements for Local Government Meetings Generally

Section 254J Closed meetings

- (1) A local government may resolve that all or part of a meeting of the local government be closed to the public.
- (2) A committee of a local government may resolve that all or part of a meeting of the committee be closed to the public.
- (3) However, a local government or a committee of a local government may make a resolution about a local government meeting under subsection (1) or (2) only if its councillors or members consider it necessary to close the meeting to discuss one or more of the following matters—
 - (a) the appointment, discipline or dismissal of the chief executive officer;
 - (b) industrial matters affecting employees;
 - (c) the local government's budget;
 - (d) rating concessions;
 - (e) legal advice obtained by the local government or legal proceedings involving the local government including, for example, legal proceedings that may be taken by or against the local government;
 - (f) matters that may directly affect the health and safety of an individual or a group of individuals;
 - (g) negotiations relating to a commercial matter involving the local government for which a public discussion would be likely to prejudice the interests of the local government;
 - (h) negotiations relating to the taking of land by the local government under the [Acquisition of Land Act 1967](#);
 - (i) a matter the local government is required to keep confidential under a law of, or formal arrangement with, the Commonwealth or a State.
- (4) However, a local government or a committee of a local government must not resolve that a part of a local government meeting at which a decision mentioned in [section 150ER](#)(2), [150ES](#)(3) or [150EU](#)(2) of the [Act](#) will be considered, discussed, voted on or made be closed.
- (5) A resolution that a local government meeting be closed must—
 - (a) state the matter mentioned in subsection (3) that is to be discussed; and
 - (b) include an overview of what is to be discussed while the meeting is closed.
- (6) A local government or a committee of a local government must not make a resolution (other than a procedural resolution) in a local government meeting, or a part of a local government meeting, that is closed.

**WATER AND WASTE
STANDING COMMITTEE MEETING
OF ISAAC REGIONAL COUNCIL
TO BE HELD ON
WEDNESDAY 10 MARCH 2021
COUNCIL CHAMBERS, MORANBAH**

1. OPENING OF THE MEETING
2. APOLOGIES
3. DECLARATION OF CONFLICTS OF INTEREST
4. CONFIRMATION OF MINUTES
5. OFFICER REPORTS
6. INFORMATION BULLETIN REPORT
7. GENERAL BUSINESS
8. CONCLUSION

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1. OPENING OF MEETING

2. APOLOGIES

3. DECLARATION OF CONFLICTS OF INTEREST

4. CONFIRMATION OF MINUTES

Water and Waste Standing Committee Meeting of Isaac Regional Council held in Council Chambers, Moranbah, commencing 1.00pm on Wednesday 10 February 2021.

5. OFFICER REPORTS

5.1 LOCAL GOVERNMENT ASSOCIATION OF QUEENSLAND WATER AND WASTEWATER MANAGEMENT ADVISORY GROUP

EXECUTIVE SUMMARY

This report is to inform Council of Director Water and Waste appointment to the Local Government Association of Queensland's Water and Wastewater Management Advisory Group and provide an update on activity.

5.2 WATER RESTRICTION TRIGGER LEVELS REVIEW

EXECUTIVE SUMMARY

This report seeks Isaac Regional Council endorsement of the revised Water Restrictions Policy Schedule 3 – Water Restriction Trigger Levels guideline required for the Chief Executive Officer to meet legislative and customer requirements for water supplies under the management of Council.

5.3 WATER AND WASTE 2020/2021 CAPITAL PROJECTS STRATEGIC PROCUREMENT PLAN PROGRESS REPORT

EXECUTIVE SUMMARY

This report is to provide an update to Council of any action taken by the Chief Executive Officer under delegation as per the Water and Waste Strategic Procurement Plan.

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5.4 ILBILBIE LAND ENCROACHMENT - WASTE MANAGEMENT FACILITY

EXECUTIVE SUMMARY

This report advises Council of the recent discovery of encroachment by Council on to neighbouring unallocated State Government land at Greenhill Road Waste Management Facility and seek Council approval to purchase the land occupied by Council.

5.5 IRCQ2013-1120-856 CORP SEWER NETWORK MANHOLE REHABILITATION

EXECUTIVE SUMMARY

This report seeks approval for the transfer of an additional \$400k funding from the Sewer Infrastructure Reserve source to Capital Works project CW212936 CORP Sewer Network Manhole Rehabilitation, and award the Contract IRCQ2013-1120-856 CORP Sewer Network Manhole Rehabilitation to the successful respondent Nixon Plumbing Pty Ltd.

CONFIDENTIAL REPORT

Closed under s254J (3) (g) negotiations relating to a commercial matter involving the local government for which a public discussion would be likely to prejudice the interests of the local government.

5.6 ANGLO AMERICAN WATER SUPPLY AGREEMENTS – MORANBAH AND MIDDLEMOUNT

EXECUTIVE SUMMARY

This report is to provide Council with an update on the progression of negotiations with Anglo American (ANGLO) for water supply agreements at Moranbah and Middlemount and seek endorsement of conditions proposed for finalising the agreements.

6. INFORMATION BULLETIN

6.1 WATER AND WASTE INFORMATION BULLETIN – MARCH 2021

EXECUTIVE SUMMARY

The Water and Waste Directorate Information Bulletin for March 2021 is provided for Committee review.

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7. GENERAL BUSINESS

8. CONCLUSION

UNCONFIRMED MINUTES

WATER AND WASTE STANDING COMMITTEE MEETING OF
ISAAC REGIONAL COUNCIL

HELD ON
WEDNESDAY, 10 FEBRUARY 2021
COMMENCING AT 1.00PM

ISAAC REGIONAL COUNCIL
UNCONFIRMED MINUTES OF THE
WATER AND WASTE
STANDING COMMITTEE MEETING
HELD IN COUNCIL CHAMBERS, MORANBAH
ON WEDNESDAY 10 FEBRUARY 2021

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ISAAC REGIONAL COUNCIL

UNCONFIRMED MINUTES OF THE

WATER AND WASTE

STANDING COMMITTEE MEETING

HELD IN COUNCIL CHAMBERS, MORANBAH

ON WEDNESDAY 10 FEBRUARY 2021 COMMENCING AT 1.00PM

ATTENDANCE

Mayor Anne Baker
Cr Greg Austen, Division One
Cr Kelly Ve a Ve a, Division Five
Cr Lyn Jones, Division Six
Cr Viv Coleman, Division Eight (alternate member)

OFFICERS PRESENT

Mr Gary Stevenson, Chief Executive Officer
Mr Gary Murphy, Director Water and Waste
Mrs Lisa Tonkin, Manager Business Services
Mrs Linda Roberts, Manager Planning and Projects (by video conference)
Mr Karl Murdoch, Manager Waste Services
Mr Stephan Wagner, Manager Operations and Maintenance
Mrs Sandra Hutchinson, IMS Business Service Officer
Ms Grier Williamson, Communications Officer
Mrs Nicole Money, Executive Assistant

1. OPENING

The Chief Executive Officer welcomed all in attendance in the absence of the Chair and declared the meeting open at 1.00pm.

The Chief Executive Officer called for nominations for the position of Chair for the Water and Waste Standing Committee Meeting for Wednesday 10 February 2021 due to the apology of Cr Simon West.

Cr Lyn Jones nominated Cr Kelly Ve a Ve a Chair of the Water and Waste Standing Committee Meeting for Wednesday 10 February 2021. Cr Greg Austen seconded this nomination.

ATTENDANCE

Mr Gary Stevenson left the meeting at 1.01pm

Resolution No.: W&W0286

Moved: Cr Lyn Jones

Seconded: Cr Greg Austen

That the Water and Waste Standing Committee appoints Cr Kelly Vea Vea as the Chairperson of the Water and Waste Standing Committee Meeting for Wednesday 10 February 2021.

Carried

The Chair acknowledged the traditional custodians of the land on which we meet today and paid her respects to their Elders past, present and emerging.

2. APOLOGIES

The Water and Waste Standing Committee received apologies from Cr Simon West.

Resolution No.: W&W0287

Moved: Cr Greg Austen

Seconded: Mayor Anne Baker

That the Water and Waste Standing Committee accepts the apology received from Cr Simon West.

Carried

Resolution No.: W&W0288

Moved: Mayor Anne Baker

Seconded: Cr Greg Austen

That the Water and Waste Standing Committee accepts Cr Viv Coleman as an alternate member.

Carried

3. DECLARATION OF CONFLICTS OF INTEREST

No conflicts of interest declared this meeting.

NOTE:

Council acknowledges that Chapter 5B Councillors' Conflicts of Interest of the Local Government Act 2009 does not apply to a Councillor if the matter to be resolved relates to a corporation or association that arises solely because of a nomination or appointment of the councillor by the local government to be a member of the board of the corporation or association.

4. CONFIRMATION OF MINUTES

Confirmation of minutes from Water and Waste Standing Committee Meeting of Isaac Regional Council held at Council Chambers, Moranbah on Wednesday 2 December 2020.

Resolution No.: W&W0289

Moved: Cr Lyn Jones

Seconded: Cr Greg Austen

That the minutes from the Water and Waste Standing Committee meeting held in Council Chambers, Moranbah on Wednesday 2 December 2020 are confirmed.

Carried

5. OFFICERS REPORTS

5.1 Integrated Management System Certification Update

EXECUTIVE SUMMARY

The purpose of this report is to provide an update on the Water and Waste Integrated Management System (IMS) certification, including compliance with ISO 45001:2018 Occupational Health and Safety requirements.

OFFICER'S RECOMMENDATION

That the Committee recommend to Council to:

- Note the Water and Waste Directorate's attainment of ISO 45001:2018 Occupational Health and Safety certification.***
- Note the Water and Waste Integrated Management System Audit Report following an external surveillance audit in November 2020.***

Resolution No.: W&W0290

Moved: Cr Lyn Jones

Seconded: Cr Viv Coleman

That the Committee recommend to Council to:

1. Note the Water and Waste Directorate's attainment of ISO 45001:2018 Occupational Health and Safety certification.
2. Note the Water and Waste Integrated Management System Audit Report following an external surveillance audit in November 2020.

Carried

5.2 Drinking Water Blue-Green Algae Management Plan

EXECUTIVE SUMMARY

This report seeks the adoption of the revised Drinking Water Blue-Green Algae Management Plan to achieve the outcomes required by Council's Drinking Water Quality Management Plan and other statutory obligations to provide safe and reliable water.

OFFICER'S RECOMMENDATION

That the Committee recommend to Council to:

1. *Adopt the Drinking Water Blue-Green Algae Management Plan (DWBGAMP).*

Resolution No.: W&W0291

Moved: Cr Greg Austen

Seconded: Cr Viv Coleman

That the Committee recommend to Council to:

1. Adopt the Drinking Water Blue-Green Algae Management Plan (DWBGAMP).

Carried

ATTENDANCE

Ms Linda Roberts ended her video conference at 1.05pm and re-joined the meeting by video conference at 1.09pm

Ms Linda Roberts ended her video conference at 1.13pm and re-joined the meeting by teleconference at 1.13pm

Cr Viv Coleman left the meeting room at 1.13pm and returned to the meeting room at 1.15pm
 Cr Austen left the meeting room at 1.16pm and returned to the meeting room at 1.18pm

5.3 External Funding Opportunities Building Better Regions Fund (Round 5)

EXECUTIVE SUMMARY

This report identifies a number of candidate projects from the Water and Waste Directorate for Council’s consideration for submission to the Building Better Regions Fund (Round 5).

OFFICER’S RECOMMENDATION

That the Committee recommends that Council:

1. ***Considers the following list of projects, in conjunction with lists recommended by other Standing Committees, for inclusion in Council’s submission for Round 5 of the Building Better Regions Fund.***

TITLE	DESCRIPTION	ESTIMATE	COMMENT
CARAVAN DUMP POINTS	<i>The townships of Moranbah and Middlemount currently have no facilities to allow for caravans to dispose of septic waste. This project is the installation of these facilities at each town. The location of each new facility has been identified with tender documents being.</i>	\$80,000	<i>Currently funded project this FY. Construction achievable within 12 weeks. Grant process may delay delivery awaiting application outcome.</i>
DYSART STP ELECTRICAL/SCADA UPGRADE	<i>New switchboard to service the plant and installation of PLC/SCADA network across the plant. This will allow a fully automated operation of the plant to improve quality and efficiency of the plant.</i>	\$350,000	<i>Currently being scoped, partially funded.</i>
CLERMONT WTP – SECOND CLARIFIER	<i>The existing clarifier is in poor condition and rehabilitation works are required. However, there is only 1 clarifier and so is not able to be taken offline as this will impact water production.</i>	\$3,000,000	<i>Identified in LTFP, multistage project over 2 years.</i>
DYSART STP – SECOND ESD	<i>There is limited storage capacity (40ML) of treated effluent. A water balance analysis has been completed demonstrating risk.</i>	\$2,500,000	<i>Multistage project design year 1 and construction year 2. \$1M contained in 10yr for FY22/23.</i>

MEETING MINUTES

Marginally uplift in ongoing opex costs.

MORANBAH CELL 2 DESIGN AND CONSTRUCT *Master plan for landfill includes the construction of cell 2.* **\$2,400,000** *Timing of need is FY22/23 expenditure is over 2 years. Reasonably confident with planning work and scope. Currently included in LTFF.*

Resolution No.:		W&W0292		
Moved:		Cr Lyn Jones	Seconded: Cr Greg Austen	
That the Committee recommends that Council:				
1. Considers the following list of projects, in conjunction with lists recommended by other Standing Committees, for inclusion in Council’s submission for Round 5 of the Building Better Regions Fund.				
TITLE	DESCRIPTION	ESTIMATE	COMMENT	PRIORITY
Moranbah Cell 2 Design and Construct	Master plan for landfill includes the construction of cell 2.	\$2,400,000	Timing of need is FY22/23 expenditure is over 2 years. Reasonably confident with planning work and scope. Currently included in LTFF	Priority 1
Clermont WTP – Second Clarifier	The existing clarifier is in poor condition and rehabilitation works are required. However, there is only 1 clarifier and so is not able to be taken offline as this will impact water production.	\$3,000,000	Identified in LTFF, multistage project over 2 years.	Priority 2
Dysart STP Electrical/SCA DA upgrade	New switchboard to service the plant and installation of PLC/SCADA network across the plant. This	\$350,000	Currently being scoped, partially funded.	Priority 3

will allow a fully automated operation of the plant to improve quality and efficiency of the plant.

2. Be provided information on the urgency of the priority projects

Carried

6. INFORMATION BULLETIN REPORTS

6.1 Water and Waste Information Bulletin – February 2021

EXECUTIVE SUMMARY

The Water and Waste Directorate Information Bulletin for February 2021 is provided for review.

OFFICER'S RECOMMENDATION

That the Committee:

1. *Note the Water and Waste Directorate Information Bulletin for February 2021.*

Resolution No.: W&W0293

Moved: Cr Lyn Jones

Seconded: Cr Viv Coleman

That the Committee:

1. *Note the Water and Waste Directorate Information Bulletin for February 2021.*

Carried

Note: The Committee has requested ongoing updates on CW202809 Moranbah Landfill remediation at each Water and Waste Standing Committee Meeting.

7. GENERAL BUSINESS

7.1 Water and Waste Directorate Vacancies

Director Water and Waste provided a brief update to the Committee on the Cultural Leadership Program attended by the Director and Managers with roll-out to the whole Water and Waste Directorate to be scheduled.

7.2 Water and Waste Directorate Vacancies

Mayor Baker queried the current Water and Waste Directorate vacancy rates.

ACTION: DIRECTOR WATER AND WASTE

8. CONCLUSION

There being no further business, the Chair declared the meeting closed at 2.14pm.

These minutes were confirmed by the Committee at the Water and Waste Standing Committee Meeting held in Moranbah on Wednesday 10 March 2021.

.....
CHAIR

..... / /
DATE

MEETING DETAILS	Water and Waste Standing Committee Wednesday 10 March 2021
AUTHOR	Gary Murphy
AUTHOR POSITION	Director Water and Waste

5.1 LOCAL GOVERNMENT ASSOCIATION OF QUEENSLAND WATER AND WASTEWATER MANAGEMENT ADVISORY GROUP

EXECUTIVE SUMMARY

This report is to inform Council of Director Water and Waste appointment to the Local Government Association of Queensland's Water and Wastewater Management Advisory Group and provide an update on activity.

OFFICER'S RECOMMENDATION

That the Committee recommends that Council:

- 1. Receive and note the meeting minutes of the Local Government Association of Queensland Water and Wastewater Management Advisory Group meeting held on 5 February 2021.**

BACKGROUND

In accordance with Resolution 6886 (see below), nomination was forwarded to Local Government Association of Queensland (LGAQ) for the Director Water and Waste to become a professional officer member of the Water and Wastewater Management Advisory Group (WWMAG).

Resolution 6886:

That Council:

- 1. Endorse the nominations listed below to the following Local Government of Queensland (LGAQ) Advisory Groups:*
 - Director Planning, Environment and Community Services to the Climate Risk Management and Resilience LGAQ Advisory Group.*
 - Cr Gina Lacey to the Future Workforce LGAQ Advisory Group.*
 - Cr Kelly Vea Vea to the Regional and Economic Development LGAQ Advisory Group.*
 - Manager Waste Services to the Waste Management and Resource Recovery LGAQ Advisory Group.*
 - Director Water and Waste to the Water and Wastewater Management LGAQ Advisory Group.*
- 2. Endorse Mayor Anne Baker's nomination for any LGAQ Advisory Groups should she wish to nominate.*

The Director of Water and Waste has been selected as a Professional Officer to the WWMAG. The opportunity to participate is welcomed in assisting to identify and progress policy and advocacy priorities with LGAQ member councils in the water and wastewater sector.

The first meeting of the new committee was held Friday 5 February 2021.

The role of the LGAQ WWMAG is to provide advice to LGAQ professional officers regarding emerging issues that require an urgent policy response.

The Advisory Group provides advice on strategic policy, research, funding, capability development and advocacy priorities related to water and wastewater management including, but not limited to:

- National and state-wide policy settings that impact water and wastewater management functions of the local government sector
- Ground water management (for example, Great Artesian Basin)
- Water allocations, markets and pricing
- Dams
- Water quality
- Water and wastewater infrastructure
- Queensland Water Regional Alliance Program

The proposed “TOP FIVE” priority objectives for the group include:

- Sustainable investment and financial sustainability – including pricing and affordability
- Raising the bar – establishing agreed minimum levels of service across the state
- Asset management challenges including a growing infrastructure deficit
- Effectively managing both growth and decline of water security
- Access to appropriate skills and capability

The Minutes of 5 February 2021 are attached.

The Terms of Reference, meeting documents/supporting documents are available if desired.

The Director Water and Waste will engage with the Executive Leadership Group, Chief Executive Officer, Standing Committee and Council as required dependent on agenda items and issues to be considered.

Important Dates

The following is a list of key dates and requirements for the LGAQ WWMAG:

- State Budget / Federal Budget / LGAQ Budget
- Draft – Advocacy Action Plan (AAP) for 2021
- LGAQ Policy Executive Meetings
- Friday 13 February 2021 (regular meeting)
- Friday 16 April 2021 (regular meeting)
- Friday 15 June 2021 (regular meeting)
- Friday 30 August 2021 (regular meeting)
- Sunday 24 October 2021 (last meeting before annual conference at Mackay)
- LGAQ Annual Conference 25 – 29 October 2021 at Mackay Showgrounds

- Strategic Local Government Asset Assessment Project – collaboration

IMPLICATIONS

Members of the Advisory Group are required to cover their own expenses. A small subsidy may be provided upon request in exceptional cases at the discretion of the LGAQ Chief Executive Officer.

The Advisory Group conducts hybrid meetings (in person and virtual) with meetings generally lasting no longer than three to four hours. Face to face meetings may occur where it can be convened in conjunction with another event relevant to the subject matter of the Advisory Group.

The Director Water and Waste will benefit from developing industry connections and having a platform to promote issues within water and wastewater at Isaac and more broadly.

CONSULTATION

Executive Leadership Team

Council (support for nomination)

BASIS FOR RECOMMENDATION

LGAQ Advisory Groups play a critical role in providing strategic advice and recommendations on emerging issues, strategic policy and advocacy priorities.

ACTION ACCOUNTABILITY

The Director of Water and Waste as a member of the LGAQ WWMAG will continue to represent Isaac Regional Council and broader industry issues.

KEY MESSAGES

Participation in the LGAQ WWMAG strengthens collaboration and engagement with member councils in the water and wastewater sector and enables strong advocacy for the Isaac region.

Report prepared by: GARY MURPHY Director Water and Waste Date: 15 February 2021	Report authorised by: GARY MURPHY Director Water and Waste Date: 23 February 2021
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ATTACHMENTS

- Attachment 1 – Attachment 1 - Water and Wastewater Management Advisory Group - draft Meeting Minutes 5 February 2021

REFERENCE DOCUMENT

- LGAQ Advisory Group Terms of Reference List of Advisory Groups (PE Endorsed)
- Final Agenda – LGAQ Water and Wastewater Management Advisory Group – 5 February 2021
- LGAQ Water and Wastewater Advisory Group Presentation – 5 February 2021
- QWRAP Overview – Dr Rob Fearon



Water & Wastewater Management Advisory Group

Meeting Minutes

Friday, 5 February 2021
9:00am – 12:00 pm
Hybrid Meeting (In person & virtual)

Attendees:

Chair	Jenny Hill	Mayor	Townsville City Council
	Rebecca Vonhoff	Councillor	Toowoomba Regional Council
	Charlie Brimblecombe	Councillor	Central Highlands Regional Council
	Marshall Chalk	Councillor	Scenic Rim Regional Council
	Teresa Lane	Councillor	Logan City Council
	Jason Bartels	Councillor	Bundaberg Regional Council
	Leon Yeatman	Professional Officer	Yarrabah Aboriginal Shire Council
	Troy Pettiford	Professional Officer	Whitsunday Regional Council
	Mark Wuth	Professional Officer	Cairns Regional Council
	Gary Murphy	Professional Officer	Isaac Regional Council
	Nicole Davis	Professional Officer	Redland City Council
	Andrew Boardman	Professional Officer	Balonne Shire Council
	Mark Vis	Professional Officer	Tablelands Regional Council

Apologies: Nil

Agenda Item 1 - Welcome and Introductions

- The Chair, Mayor Jenny Hill, welcomed attendees and general introductions were undertaken.
- There were no apologies.

Agenda Item 2 – Roles, Responsibilities and Terms of Reference

- The group discussed the Terms of Reference, including the roles and responsibilities.
- The Terms of Reference were endorsed by the group.

Agenda Item 3 – LGAQ Update

- Lau provided an LGAQ update
 - key themes from previous AG meeting
 - LGAQ Annual Conference Motions
 - Important Dates
 - *State Budget / Federal Budget / LGAQ Budget*
 - *Draft - Advocacy Action Plan (AAP) for 2021*
 - *LGAQ Policy Executive Meetings*
 - *Friday, 12 February 2021 (regular)*

- Friday, 16 April 2021 (regular)
- Friday, 15 June 2021 (regular)
- Friday, 30 August 2021 (regular)
- Sunday, 24 October 2021 (last meeting before annual conference @ Mackay)
- LGAQ Annual Conference – 25th – 29th October 2021 @ Mackay Showground.
- Strategic Local Government Asset Assessment Project – Collaboration

ACTION:

1. Lau to provide a copy of the update presentation slides to AG members

Agenda Item 4 – Queensland Water Directorate, Dr Rob Fearon - Queensland Water Regional Alliance Program (QWRAP)

- Dr Rob Fearon – Presented an overview and program update on QWRAP.
- Discussed advocacy and future collaboration approach
 - LGAQ to advocate State Government for a permanent annual funding of \$2m for QWRAP.
 - Continue to build council/ROC involvement state-wide
 - Continue advocacy with DRDMW and other Departments
 - Seek ROC advocacy directly with QG and LGAQ motions
 - Seek inclusion for expanded QWRAP in budget in November
 - Continue advocacy for Grant Reform and capital funding
- There was an overwhelming support from AG members for the QWRAP program
- Chair proposed using **“Communities have safe, secure and sustainable water and sewerage services built on collaboration that drive efficiency.”** as a theme to support and continue advocating for extension of the QWRAP.

ACTION:

2. Lau to provide a copy of Dr Rob Fearon QWRAP presentation slides to Advisory Group members
3. QldWater directorate & LGAQ team to seek opportunities to present QWRAP at ROCs meetings to promote take up of this program.

Agenda Item 4 – Members Top Issues

The chair asked members for their top three issues. Issues noted below:

Cr Rebecca Vonhoff

- That water constraints are constraining regional economic growth.
- Bore stress and collapsing vs issuance of water licenses
- Dam water safety upgrade and budget implications

Cr Charlie Brimblecombe

- Low dam water level – long-term water security and economic growth
- Water pricing vs supply

Cr Marshall Chalk

- Water allocation for need to grow into the future with more intensive types of agricultural and Horticulture
- Possible use of recycled water for agricultural sector.

Cr Teresa Lane

- Water & wastewater planning and cost of provision for the State's Priority Development Areas (PDAs) affecting council budget bottom line. (out of sequence development)

Cr Jason Bartels

- Long-term water security and water allocations for high prioritise use.
- Staff – retention and replacing qualified staff.
- Long term funding sustainability for water & wastewater program.

Leon Yeatman

- Better configuration for water treatment facilities due to proximity to Great Barrier Reef.
- Planning for future growth – limited water supply sources.
- Leverage regional relationships to learn from others in the sector to improve water resource management.

Troy Pettiford

- Full cost pricing /cost reflective modelling – working with QTC to ensure comparable water pricing
- Fit for purpose asset management – work with others and State to develop coordinated service infrastructure priority plan.
- Staff – retention and replacing qualified staff.

Mark Wuth

- Long-term water security to accommdate future growth
- Ageing infrastructure
- Impacts of emerging containinant of recycled water (e.g., PFAS, antibiotics, steriods, micro plastics etc)

Gary Murphy

- Water reliability challenges
- Water affordability
- Allocation of water to Sunwater processes

Nicole Davis

- Water & wastewater treatment upgrades
- Ability to attract staff.
- Bulk water pricing

Andrew Boardman

- Long-term water security including GAB
- Cost water leases
- Funding of ageing infrastructure to reflect current standards and staff training.

Mark Vis

- Long-term water security for growth and irrigation
- Ageing infrastructure & upgrade to water & wastewater treatment facilities.
- Wastewater management release due to close proximity to Great Barrier Reef.

Mayor Jenny Hill

- Water cost/pricing
- Long-term water security
- Asset management – increasing standards

ACTION:

4. *Lau to provide a summary of common themes and circulate to AG members*
5. *Chair and Lau – to distribute proposed regional/area sectors to deal with water and wastewater management issues more effectively.*

Agenda Item 4 – LG representation for Artesian Basin Advisory Council (QGABAC)

Discussed the request for a new local government representative on the Queensland Great Artesian Basin Advisory Council (QGABAC)

ACTION:

6. *The Chair will discuss possible nomination at the Policy Executive Meeting*

Summary & Next Steps

- Further promotion of QWRAP at ROCs to encourage take up and participation by councils in the program.
- Proposed “TOP FIVE” priority objective for the AG (Thanks to Dave Cameron):
 - *Sustainable investment and financial sustainability - including pricing and affordability*
 - *Raising the bar – establishing agreed minimum levels of service across the state*
 - *Asset management challenges including a growing infrastructure deficit*
 - *Effectively managing both growth and decline/ water security*
 - *Access to appropriate skills and capability*
- Next Meeting date to be determined in due course noting timing of the pending more background work.

MEETING DETAILS	Water and Waste Standing Committee Wednesday 10 March 2021
AUTHOR	Gary Murphy
AUTHOR POSITION	Director Water and Waste

5.2

WATER RESTRICTION TRIGGER LEVELS REVIEW

EXECUTIVE SUMMARY

This report seeks Isaac Regional Council endorsement of the revised Water Restrictions Policy Schedule 3 – Water Restriction Trigger Levels guideline required for the Chief Executive Officer to meet legislative and customer requirements for water supplies under the management of Council.

OFFICER'S RECOMMENDATION

That the Committee recommends that Council:

- 1. Receive and note the Cardno report "IRC Water Supply Analysis – Water Trigger Tool Development – 16 February 2021".**
- 2. Adopt the updated Water Restrictions Policy Schedule 3 – Water Restriction Trigger Levels guideline (noting changes to Clermont Triggers and adjusted descriptions for St Lawrence Water relating to depth below "spillway").**
- 3. Request a further report assessing the priority and financial implications of implementing the actions and recommendations contained in Section 5 of the Cardno report.**

BACKGROUND

Water restrictions ensure the water supply is maintained and managed effectively. *The Water Supply (Safety & Reliability) Act 2008* requires Isaac Regional Council (IRC) to meet compliance by ensuring a managed water supply is always available. For IRC to have the authority to restrict a water supply, it must ensure certain criteria is met as follows:

- There is an urgent need for the service providers water restriction.
- The available water supply has fallen to a level at which unrestricted use of water is not in the public interest.
- The service provider has a reasonable and comprehensive strategy for demand management for water and restriction is essential to ensure the aims of the strategy are met.

The Demand Management Plan for use within the Isaac Regional Council was endorsed at the Ordinary Meeting of Council on 29 January 2019.

The current Water Restrictions Policy was adopted at the Ordinary Meeting of Council on 25 September 2018. In line with the updated policy and to ensure Water and Waste met the requirements of the *Water Supply (Safety and Reliability) Act 2008*, Water Restriction Trigger Levels were developed for each individual water

supply system based on location, type of supply, storage volume calculations, and current water usage versus population, history and weather data.

In January 2020 Councillors were advised of an administrative error in the adopted and published Schedule 3 – Water Restriction Trigger Levels. The error related to the Nebo bore field triggers (Bore 2 as a reference point). The error was in the unit of measure with reference in centimetres (cm) above the bore pump at Bore 2, not the actual water level in millimetres (mm). The restriction triggers were still accurate when the correct units of measurements were applied. The action to correct the units of measure was endorsed by the Chief Executive Officer.

To be consistent, Water and Waste listed the trigger levels in meters in keeping with the Clermont and St Lawrence triggers of height below the spillway. The changes were updated on the public IRC website in January 2020.

Completion of a comprehensive trigger levels assessment was then requested by Council (particularly after feedback from the Clermont community) which resulted in the engagement of an appropriately qualified consultant to deliver a water restrictions trigger level assessment tool, which will allow Council to proactively monitor and apply water restrictions with a high degree of confidence based on scheme specific demand and operational requirements. The tool is intended to be used to assign water restriction trigger levels for each system under the control of council. The assigning of trigger levels will be based on the findings of engineering investigations into each scheme’s specific raw water yield reliability and water demand. As more data becomes available, the trigger can be reviewed and adjusted when appropriate to do so.

Cardno was the successful consultant and has been reviewing each of the water supply sources under the control of Council.

Historically the Clermont restrictions triggers were described by a range and whilst awaiting the outcomes of the triggers review, Council had implemented restrictions as an administrative step in the second half of 2020 at the midpoint of the current triggers range (see previous footnote to Schedule 3 indicating that the Chief Executive Officer will implement water restrictions when water levels approach the midpoint of the trigger):

- Level 1 1.125m water level below spillway
- Level 2 1.375m water level below spillway
- Level 3 1.75m water level below spillway
- Level 4 >2m water level below spillway

In late 2020 a minor change was made to the wording of “less” to “more” for Level 4 Water Restriction Trigger Levels for Clermont and St Lawrence following further review of Schedule 3.

In December 2020 Council considered an interim report on the outcomes of a revised sustainable yield analysis for Clermont and Theresa Creek Dam. As a result, Council adopted an interim Level 1 Trigger Level of 2.1m below spillway height, pending review of the final triggers assessment report. No trigger levels were adopted for Levels 2 to 4.

This was based on 60-day dead storage modelling and low risk scenarios as reported in December 2020.

Council should note that the tables and figures provided in the December 2020 draft report from Cardno and included in the Council Report, were indicative trigger levels to assist with the interim Level 1 Trigger Level of 2.1m below spillway height of the Theresa Creek Dam and as such some figures have changed within the

final Cardno report for each scheme. Tables indicate in the final report that the levels at Theresa Creek Dam do not change from the Level 1 Trigger Level of 2.1m below spillway height in the 30 day and 60 day dead storage scenarios for risk profiles of maximum risk and 75th percentile risk. The Cardno report also has recommended level changes for Levels 2, 3 and 4 that are provided in the recommended levels within Table 5-1. The trigger levels impact of the risk options impacts the estimated days in each level per year based on a 5 year average.

The final consultants trigger levels review has now been received and the following report contains the outcomes and recommended actions in response.

Report

The final report has now been received from Cardno and is titled the IRC Water Supply Analysis – Water Trigger Tool Development – 16 February 2021.

This report is provided as an attachment to assist Council in assessing the risk profile that Council may seek to adopt in altering any water restrictions triggers.

Each town is considered separately. Note that there is still an outstanding action to undertake a trigger levels assessment for the resource sector supplied towns of Glenden, Moranbah, Middlemount and Dysart. This work is still to be commissioned.

The modelling has been undertaken using a GoldSIM Model with the following considerations:

- Historic rainfall/evaporation data
- Australian Water Balance Model (AWBM) parameter sets
- Townships demands
- Stage/storage data
- Spillway/weir discharge data
- Initial water levels
- Recent bathymetric survey information
- Infrastructure operational criteria

The model utilised current water trigger levels and the target demand reductions of 10%, 20%, 40% and 50% for Level 1 – 4 restrictions respectively.

As a standard approach when developing this type of GoldSIM model, a 30 day remaining supply is built into the graphing component, this is generally referred to as “dead volume”, this corresponds to the worst case scenario for water supply for the region, and indicates that with no rainfall a township will run out of water in 30 days (upon hitting the “dead volume” limit). See table below.

Data provided generally indicates that the basis of water consumption reduction does not actually result in the agreed inbuilt 40% reduction in water consumption in all townships. This would seem to indicate that although water restrictions are implemented, community adherence on the data that was provided does not seem to correlate. To reach proposed reduction targets aligning with water trigger levels, more stringent enforcement would be required. The risk if these reductions are not achieved is that townships would run out of stored water much faster than expected. With this in mind, 60-day dead storage model runs were also requested.

Section 5 of the final report contains the recommendations. A key limiting factor in carrying out this study was the lack of available data on historic performance, operating conditions and infrastructure characteristics. There was significant amount of data that was assumed in the absence of recorded data and has had an influence on the accuracy of results presented in the study. Hence there are several recommendations associated with Data Gaps, Additional Modelling and Trigger Level Adjustments.

The Data Gaps identified requiring action include:

- No Bathymetric Survey of St Lawrence Weir Storage.
- Accurate survey for the offtake location at St Lawrence, including surrounding storage area, and depths of the pump.
- Leakage loss review of the St Lawrence weir. It is understood that there may be stored water leaking either through or passing under the weir wall, or potentially the loss is via both noted mechanisms. It is recommended an engineering study be undertaken to confirm the volume lost and present recommendations on remediation / prevention measures.
- Carmila hydrogeological study of bore to allow development of stage/storage data that is representative for each scheme.
- Infiltration characteristics and historic water levels within the Carmila bores, and creek bed survey around the offtake location.
- Water restriction for Carmila Creek be updated to recordable levels within the storage, not visual indications. This will allow for better representation of water trigger levels within the model and assist with further supporting proposed level changes. Thus would likely link triggers to bore draw down.
- Nebo Aquifer historic water levels, storage properties and recharge characteristics (noting this will be completed by Cardno on separate engagement and this project is envisaged to be completed with a draft report in March 2021 associated with the Nebo bores licence adjustments). Following completion of this project further validation of the water trigger model can be completed.
- Following further analysis of the additional noted information in the previous noted recommendation, develop RL's of the water restrictions for the Nebo scheme.
- Consider automated rain gauges similar to what Mackay Regional Council (MRC) utilise on catchment areas of significance.
- Automated water level reading system within catchments of TCD, Nebo, St Lawrence and Carmila (TCD auto level gauge scheduled for early 2021
- Seek better information on recorded water levels for the raw water storages for Clermont, Carmila, St Lawrence and Nebo water levels within each storage which results in poor water quality.
- Water levels within the storages which prohibit offtake for all storages as discussed within this water trigger study (i.e. What RL/ capacity can water not be pumped).
- Assessment of potable individual supply AMR data for the water supply schemes and assessing background leakage index.
- Further capturing water supply system performance following implementation of water conservation trigger's and confirming effectiveness.

- Additional demand on raw water sources (e.g. agricultural, industry, mining) for the raw water storages for Clermont, Carmila, Saint Lawrence and Nebo.

The recommendations associated with each town are articulated below and include some preliminary responses to the recommendations around data gaps and additional monitoring.

Clermont

The Clermont community has been requesting a review of trigger levels and with the recent completion of a bathymetric survey of Theresa Creek Dam (TCD), the finalisation of the Clermont Sustainable Water Strategy, progress on the desilting of the offtake tower at TCD, construction of a 5ML potable water storage, activation of the Capricorn St Reservoir as well as consideration and design of a floating offtake, it was appropriate to consider a review of the trigger levels as per the Council approved Demand Management Plan (ECM Document ID: 3657237).

As mentioned previously, Council considered an interim report in December 2020 and adopted an interim Level 1 Trigger of 2.1m below spillway.

To be consistent with other regions, it is suggested that Council use percentages of water supply remaining in the draft Schedule 3 as per Table 5-1 below. Using volumes, rather than height below spillway, is aimed at better public compliance of restriction levels as was mentioned in the previous December 2020 report. It will better indicate how much water is left in storage. Officers will still use the heights below spillway as the indicators of these percentages so that recommendations to the Chief Executive Officer for restrictions implementation can be made based on tangible evidence such that triggers can be implemented when required.

The proposed Interim Level 1 Trigger has not changed under the maximum risk profile as indicated in the excerpt provided below from the Final Cardno Report as Table 5-1.

Action is also being taken to install an automatic level gauge on the access walkway to the offtake tower to allow continual monitoring of water depth below the weir. Note that the current water height automatic gauge in place is intended to monitor flood conditions and flow over the spillway for managing risks associated with a referable dam.

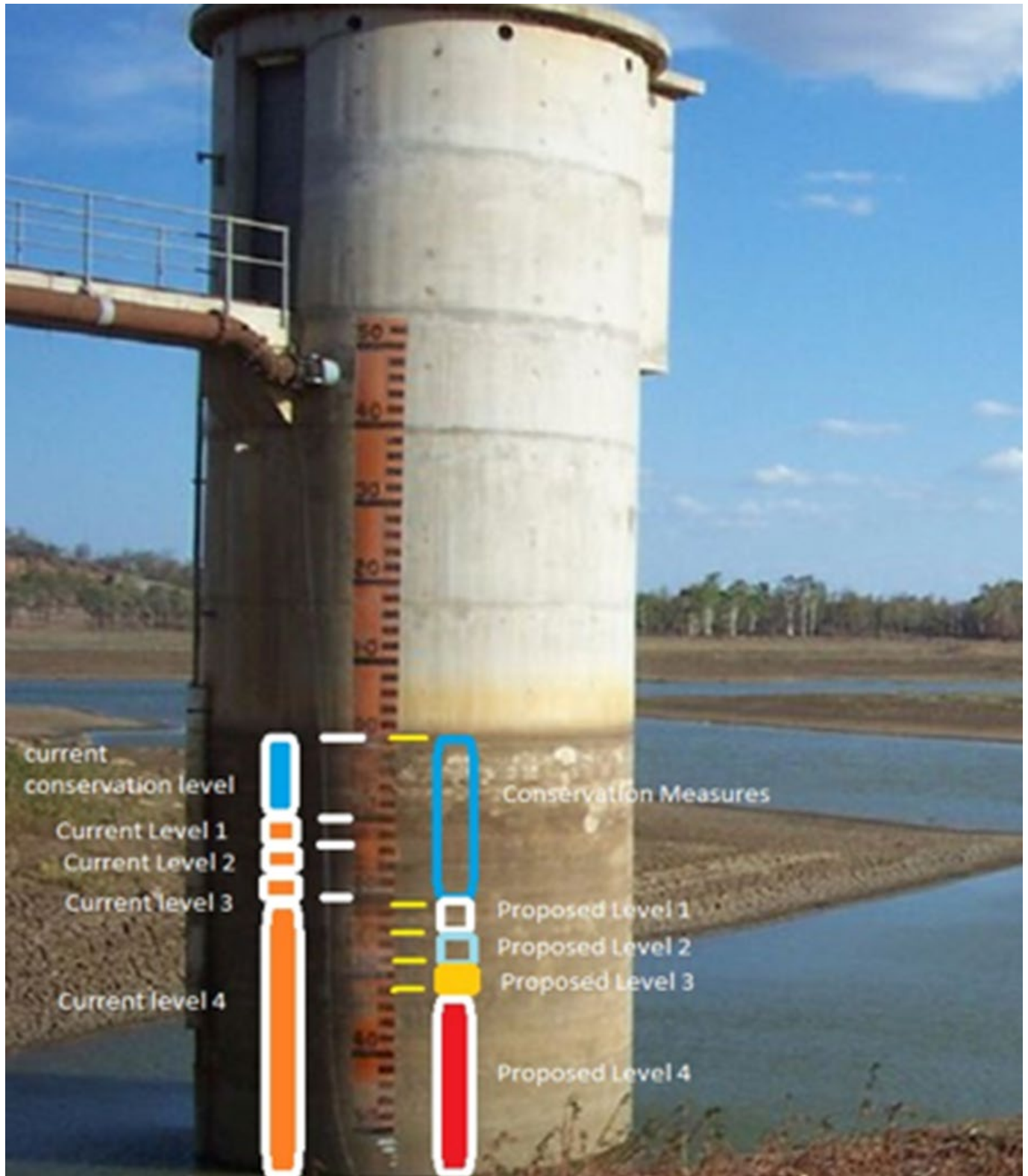
The Cardno report has altered to reflect the number of days in each trigger level rather than altered depths below spillway. Note that risk profile is associated with the likelihood of occurrence associated with the worst 5 years on record. The report recommends trigger levels based on risk such that the 60day dead storage is never realised based on the worst 5 year period on record and associated water availability.

The review recommends adopting 60-day dead storage and 100 Percentile Risk Profile (or Max Risk Profile).

Table 5-1 Clermont Adjusted Water Trigger Values – Max Risk Profile (60 day dead volume with riparian release)

Trigger Level	Trigger Points (Dam Storage Volume %)	Trigger Levels (Level located on intake tower)	Target Reduction in Demand	Estimated days in each level per year
Conservative	>40%			
Level 1 (Low)	When storage reaches 40%	2.1m (268.9m AHD)	10%	50
Level 2 (Medium)	When storage reaches 31%	2.45m (268.55m AHD)	20%	50
Level 3 (High)	When storage reaches 25%	2.8m (268.2m AHD)	40%	36
Level 4 (Critical)	When storage reaches 20%	3.15m (267.85m AHD)	50%	75
Level 5 (Dead Storage Level) – Not an existing Trigger Level	When storage reaches 10% or has only 60 days supply left	6.3m (If TCD < 264.7m AHD)		8

The below picture showing the current restriction trigger points (before the interim adopted levels) as against the proposed restriction trigger points provides comparison of the proposed changes.



St Lawrence

There was no stage storage data available for the St Lawrence scheme for the consultant to complete an accurate model. Stage storage relationships were estimated based on LiDAR to derive a dry stream reduced level, surface area and volume of the storage, behind the weir. The advised depths of the creek upstream of the weir were stamped onto the LiDAR to reflect conditions of a dry creek. It is noted that estimated stage storage data has a significant influence on the performance of the system in terms of water supply reliability as the derived stage/storage relationships ultimately govern the available water within the scheme.

There is no stream gauge data available within the St Lawrence catchment area. In the absence of historic water level recordings and stream gauge data, no catchment specific water balance model (AWBM) data set was able to be derived. The AWBM parameter set from the Carmila Catchment was adopted as this has similar catchment characteristics to that of St Lawrence. These parameters are deemed fit for purpose in the absence of any historic water levels to allow a calibration process for this catchment to occur.

As such, it is not recommended that any changes to current trigger levels be carried out based on the current model developed in this study, due to the impacts that the above assumptions may have made on the accuracy of the model.

The current triggers for St Lawrence as per Schedule 3:

- Conservation Measures – St Lawrence Weir overflowing
- Level 1 - 0.5m below Weir overflow
- Level 2 - 1.0m below Weir overflow
- Level 3 - 1.5m below Weir overflow
- Level 4 - More than 2m below Weir overflow

Please see below excerpt from the Cardno Report which identifies adjustments to trigger levels that could be made if better data was available.

Table 5-2 St Lawrence Adjusted Water Trigger Values – High Risk Profile

Trigger Level	Trigger Points (Dam Storage Volume %)	Trigger Levels (Level located on intake tower)	Target Reduction in Demand	Estimated days in each level per year
Conservative	>65%			
Level 1 (Low)	When storage reaches 65%	1.3m below weir (RL 5.2m ADH)	10%	38
Level 2 (Medium)	When storage reaches 55%	1.8m below weir (RL 4.7m AHD)	20%	17
Level 3 (High)	When storage reaches 45%	2.3m below weir (RL 4.2m AHD)	40%	12
Level 4 (Critical)	When storage reaches 35%	2.8m below weir (RL 3.7m AHD)	50%	47
Level 5 (Dead Storage Level) – Not an existing Trigger Level	When storage reaches 10% or has only 30 days supply left	5.3m below weir (RL 1.2m AHD)		1

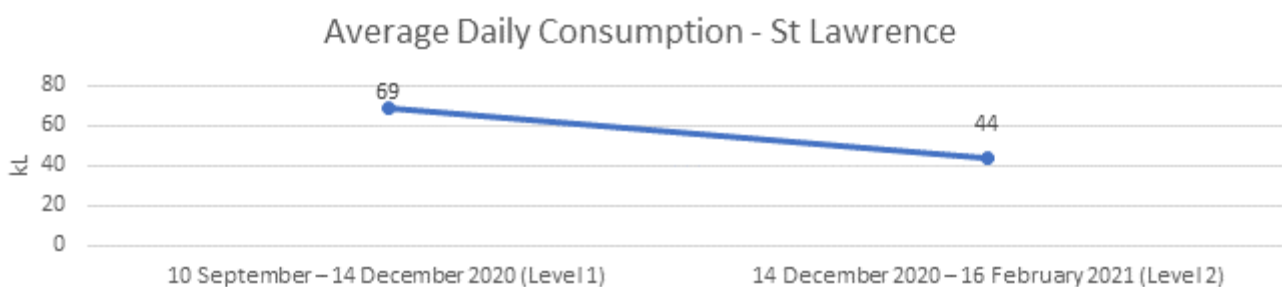
In summary, the Cardno Report identifies that the St Lawrence water storage based on LiDAR analysis for storage volume could be amended if there was greater certainty of the storage volume and better rainfall data was available (note that the Carmila catchment model was applied to St Lawrence). The dead storage is unknown as there is no accurate survey that is linked to depth at either the weir or at the offtake pumps.

Based on historical knowledge and as mentioned in Section 5 of the Cardno report, there are several areas of concern for St Lawrence, including:

- Bathymetric Survey of St Lawrence Weir Storage as accurate is volume unknown.
- Survey for the offtake location at St Lawrence, including surrounding storage area, and depths of the pump (note that high- and low-level pumps are fixed in place and cannot easily be interchanged if failures occur).
- Leakage loss review of the St Lawrence Weir. It is understood that there currently is stored water leaking either through or passing under the weir wall, or potentially the loss is via both noted mechanisms. It is recommended an engineering study be undertaken to confirm the volume lost and also present recommendations on remediation / prevention measures.
- Water quality is believed to diminish once the low-level offtake point is brought into operation and St Lawrence is approaching this point presently (currently at Level 2 restrictions).

The St Lawrence community has historically been very responsive when water restrictions have been implemented as evidenced by the graph below of changes in consumption with the introduction of Level 1 and 2 restrictions through 2020 and 2021. If there is no rainfall in the catchment in the near future, St Lawrence is likely to approach the current Level 3 Trigger in March

St Lawrence Water Usage (average daily consumption in kilolitres)



Nebo

The Cardno report identifies that there is insufficient data to consider any changes to the current Nebo triggers. As such, no climate change assessment has been conducted. It is recommended that future review of the impact of climate change on the reliability of the water supply schemes is carried out when more data becomes available. Bore drawn down data will continue to be collected and it is envisaged that once the extraction licence at Nebo is finalised and we have more draw down data, a further review can be undertaken in 2023.

Carmila

Cardno report advises for the Carmila scheme, the current Level 1 Trigger levels simulates that the dead storage volume is entered. As such, it is not advisable that these triggers be lowered. The Carmila model

contains a significant amount of assumed data, with further calibration deemed necessary, prior to adjusting current trigger levels.

IMPLICATIONS

Water Restriction Levels 1 – 4 are to be implemented and enforced when and where necessary to restrict water use throughout the region.

Monthly forecasting of water supply availability and restrictions triggers will continue to occur via Standing Committee in the Information Bulletin.

A communication strategy will be required to advise Clermont customers of the changed restrictions triggers.

CONSULTATION

Chief Executive Officer

Executive Leadership Team

Manager Business Services, Water and Waste

Manager Operations and Maintenance Water and Wastewater

Assets and Compliance Officer, Water and Waste

Brand, Media and Communications

BASIS FOR RECOMMENDATION

An approved water restrictions regime provides transparency to the communities of the Isaac region. Water Restriction Trigger Levels provide an easily understood measure of the level of water supply security and encourages community awareness of limitations of a water supply system.

Trigger points are used to clearly establish (in terms of water supply volumes) the clearly defined levels in dams, rivers or bores that enable the implementation of water restrictions to extend the capability of the existing raw water supplies.

The *Water Supply (Safety & Reliability) Act 2008* requires Isaac Regional Council (IRC) to meet compliance by having the required plans in place supported by appropriate investigations and rationale.

ACTION ACCOUNTABILITY

The Water and Waste Directorate will be responsible for the implementation of the water restrictions as well as training of relevant staff on its application. Clear and concise social media posts and notices and information with various multimedia sources used with the assistance of Brand, Media and Communications will be delivered to ensure the community awareness of Water Restriction Trigger Levels are well communicated to all water users throughout the Isaac region. Monitoring of storages will continue to be reported via Standing Committee.

KEY MESSAGES

Isaac Regional Council has a mechanism to reduce water consumption stating specific actions required in each level of water restrictions by our customers to help the demand on diminishing water supplies.

Report prepared by:

GARY MURPHY
Director Water and Waste

Date: 24 February 2021

Report authorised by:

GARY MURPHY
Director Water and Waste

Date: 25 February 2021

ATTACHMENTS

- Attachment 1 – Schedule 3 – Water Restriction Trigger Levels – proposed

REFERENCE DOCUMENT

- *Water Supply (Safety & Reliability Act) 2008*
- Water Restrictions Policy (STAT-POL-033)
- IRC Water Supply Analysis – Water Trigger Tool Development – 16 February 2021

SCHEDULE 3 – WATER RESTRICTION TRIGGER LEVELS

SUPPLY (RAW) WATER	WATER RESTRICTION TRIGGER LEVELS				
LOCATION	WATER CONSERVATION MEASURES	LEVEL 1 (LOW)	LEVEL 2 (MEDIUM)	LEVEL 3 (HIGH)	LEVEL 4 (CRITICAL)
CARMILA (Carmila Creek Bores)	Any flow greater than 100mm over V-Notch Weir located 100m upstream of bore locations in Carmila Creek	Flow of 100mm or less-over V-Notch weir located 100m upstream of bore locations in Carmila Creek	No flow over V-Notch Weir located 100m upstream of bore locations in Carmila Creek	No visual water in Carmila Creek at the bores	Raw water pumps can no longer pump at 1.5l/s each and have to run off one pump to maintain supply
CLERMONT (supplier reliant)	When storage is greater than 40%	When storage reaches 40%	When storage reaches 31%	When storage reaches 25%	When storage reaches 20%
DYSART (supplier reliant)	100% allocation	Will depend on water suppliers			
GLENDEN (supplier reliant)	100% allocation	Will depend on water suppliers			
MIDDLEMOUNT (supplier reliant)	100% allocation	Will depend on water suppliers			
MORNABAH (supplier reliant)	100% allocation	Will depend on water suppliers			
NEBO (Bore 2 used as reference point)	Greater than 1.2m above the bore pump	1.2m to 1.175m above the bore pump	1.175m to 1.15m above the bore pump	1.15m to 1.125m above the bore pump	Less than 1.125m above the bore pump
ST LAWRENCE WEIR (St Lawrence Creek Weir)	When storage is greater than 65%	When storage reaches 65%	When storage reaches 55%	When storage reaches 45%	When storage reaches 35%
POTABLE (drinking water) Trigger Levels will be implemented when, water treatment plant failures, major main breaks or other issues that may affect the supply of potable water to customers as per Isaac Regional Council's Customer Charter. Restrictions will be automatic Level 4.					

MEETING DETAILS	Water and Waste Standing Committee Wednesday 10 March 2021
AUTHOR	Linda Roberts
AUTHOR POSITION	Manager Planning and Projects

5.3 WATER AND WASTE 2020/2021 CAPITAL PROJECTS STRATEGIC PROCUREMENT PLAN PROGRESS REPORT

EXECUTIVE SUMMARY

This report is to provide an update to Council of any action taken by the Chief Executive Officer under delegation as per the Water and Waste Strategic Procurement Plan.

OFFICER'S RECOMMENDATION

That the Committee recommends to Council to:

- 1. Receive and note works awarded under the 2020-2021 Water and Waste Procurement Plan, in particular the awarding of IRCT2013-1120-207 Dredging Part of Theresa Creek Dam and IRCQ2083-1120-863 Sewer Network Mains Relining projects.**

BACKGROUND

At the 21 October 2020 Council Meeting, Resolution 6926 was approved allowing for the delegation to the Chief Executive Officer (CEO) as per the Strategic Procurement Plan. During the last month there was two actions executing the award of the Dredging Part of Theresa Creek Dam and Sewer Network Main Relining. This procurement followed the process as per Council Resolution 6926. Of the seven projects identified under the Strategic Procurement Plan there are six remaining. The table below shows the projects covered by the Procurement Plan.

PROJECT	UPDATE AS OF 22 FEBRUARY 2021	DATE AWARDED
CW212862 and CW212857 Retaining Walls at Greenhills (\$150K) and Carmila (\$150K) waste transfer sites	Anticipated tender documents release February 2021	
CW212864 Sewer Relining	Evaluation Completed, Letter of Award being drafted to be awarded	February 2021
CW212866 SPS Renewals	Awarded	November 2020
CW212936 Manhole Rehabilitation	Evaluation of tender concluding	To be completed March

CW202807 TCD Desilting Contract	LOA of award signed by Successful tenderer	February 2021
3 x Project Managers	Awarded	December 2020
Inspector role	No award of contract	Finalised – no award

IMPLICATIONS

Compliance

In accordance with Resolution 6926 (2020/2021 Water and Waste Strategic Procurement Plan), the activities of the previous month's Procurement Plan under the CEO's delegation will be noted in this report.

Benefits

Council can see a monthly progress report detailing actions taken as per the Strategic Procurement Plan.

CONSULTATION

Manager Operations and Maintenance, Water and Wastewater

Manager Contracts and Procurement

Director Water and Waste

Manager Galilee and Bowen Basin Operations

BASIS FOR RECOMMENDATION

To improve business processes within Council's Water and Waste Directorate by providing more appropriate and relevant reporting, transparency and a clear monitoring tool for Council. This report will help identify and communicate any project delays or possible project failures as well as action taken.

ACTION ACCOUNTABILITY

That the Manager Planning and Projects continues to report on the delegation actions by the CEO in relation to the Strategic Procurement Plan.

KEY MESSAGES

That Council has open communication, oversight and transparency of the Water and Waste 2020/2021 Capital Works program, to ensure Isaac will have effective and sustainable infrastructure that supports the needs of the region's communities and economic sectors.

Report prepared by:

LINDA ROBERTS

Manager Planning and Projects

Date: 22 February 2021

Report authorised by:

GARY MURPHY

Director Water and Waste

Date: 24 February 2021

ATTACHMENTS

- Nil

REFERENCE DOCUMENT

- Nil

MEETING DETAILS

Water and Waste Standing Committee
Wednesday 10 March 2021

AUTHOR

Karl Murdoch

AUTHOR POSITION

Manager Waste Services

5.4 ILBILBIE LAND ENCROACHMENT – WASTE MANAGEMENT FACILITY

EXECUTIVE SUMMARY

This report advises Council of the recent discovery of encroachment by Council on to neighbouring unallocated State Government land at Greenhill Road Waste Management Facility and seek Council approval to purchase the land occupied by Council.

OFFICER'S RECOMMENDATION

That the Committee recommend to Council to:

- 1. Authorise the purchase of the land accommodating part of the Greenhill Waste Management Facility located on part of Lot 1 on RP266865 following a process as directed by Department of Resources.**
- 2. Authorise the Chief Executive Officer to negotiate and execute legal instruments for acquisition of part of the land for Waste Management Facility on part of Lot 1 on RP266865 by agreement at valuation.**

BACKGROUND

Council has operated the Greenhill Waste Management Facility at 1026 Greenhill Road, Lot 68 on CP900902, over many years, initially as a landfill site, and for at least the past 10 years as a transfer station. At some stage, estimated to be during 2010, a boundary fence constructed in chain link fencing and barbed wire was installed. Although no longer operating as an active landfill site, the site remains the subject of Environmental Authority EPPR00791913.

Council has received a letter from the Principal Land Officer within the Dept of Resources dated 8 December 2020 in relation to “a building encroachment onto Unallocated State Land (USL) and other items placed on USL at Ilbilbie without authorisation.” The letter requests that Council take immediate action to cease all trespass related acts on the identified State Lands, which are identified as Lot 1 on RP266865. A copy of the letter is provided at Attachment 1.

Officers have contacted the author of the letter and discussed the potential options available to Council. Officers have considered the option of simply relocating the eastern boundary fence which encroaches on to the USL, however this would not be practical since the vehicle which services the transfer waste skips would not be able to manoeuvre the skips in and out of the transfer area. The vehicle currently requires the entire

width of the site with the fence in its current location to be able to move the skips safely into position. There is also a groundwater monitoring bore within the site which lies inside the fence line but occupies part of the USL.

The area of land concerned is estimated to be approximately 1350 m². There is also a portion of land which lies outside Council's fence but which forms part of Council's lot 68 to the north of the site. This measures approximately 500 m² and could potentially be offered to the Dept of Resources as a land swap.

Officers consider that the most expedient solution would be for Council to submit to Dept of Resources an Application form Contact and Land Details Part A, and an Application to purchase or lease state land Part B to the Department with a concept map of the land Council wishes to purchase.

Following submission of these documents, the Department will evaluate the applications and concept map and advise if any changes are required to the proposed land boundaries. At this time, the Department will further outline the steps that must be taken from there. There may be implications for Native Title to be addressed, however the Department will provide written instructions following their evaluation.

In summary, Council will need to progress with the acquisition of this parcel of land, as per the Dept of Resources' identified process. Officers are working closely with the Dept of Resources and will need to arrange the necessary valuation, survey and documentation and conduct negotiations for this acquisition.

It is anticipated that the acquisition will be no more than market value, with other costs to be incurred as per standard land purchase expenses. It is anticipated the land purchase cost could be approximately \$5,000 to \$10,000 in value.

Attachment 2 shows the proposed survey area for land to be acquired being on part of Lot 1 on RP266865.

IMPLICATIONS

Financial

Estimated Survey costs approximately \$5,500 ex GST

Estimated Valuation costs \$700 ex GST

Estimated purchase costs \$5,000

Officers propose that these costs can be met from existing budgets.

If purchase doesn't proceed there would be costs associated with capping the existing monitoring bore and installing a new bore as well as relocating the fence.

Service Delivery

Should the land acquisition not proceed, there would be serious implications for the operation of the site in its current format. The upgrade of the transfer station retaining walls is scheduled for completion in the current financial year as project CW212862.

Compliance

Council may be required to abandon its current groundwater monitoring bore and establish a replacement bore within the site. The cost for a replacement bore would be in the vicinity of \$3,000 to \$5,000.

CONSULTATION

Director Water and Waste

Waste Services Staff

Waste Collection Contractor

BASIS FOR RECOMMENDATION

Acquisition of the land would appear to be the only feasible option to enable cessation of the encroachment and continue to operate the facility.

ACTION ACCOUNTABILITY

Manager Waste Services to ensure that the land acquisition occurs.

KEY MESSAGES

Council is taking action to correct a misalignment of a boundary.

Report prepared by:	Report authorised by:
KARL MURDOCH	GARY MURPHY
Manager Waste Services	Director Water and Waste
Date: 1 March 2021	Date: 2 March 2021

ATTACHMENTS

- Attachment 1 – Letter from Principal Land Officer, Department of Resources, dated 8 December 2020
- Attachment 2 – Plan of Identification Survey of Lot 68 on CP900902

REFERENCE DOCUMENT

Nil

DNRME - Central Region
Ref number: I05553-2019

8 December 2020

Isaac Regional Council
C/- Gary Stevenson
PO Box 97
Moranbah QLD 4744

Dear Isaac Regional Council

ISAAC REGIONAL COUNCIL MORANBAH 15 DEC 2020 RECEIVED ACTION _____ FYI _____ Dist _____ File _____ Doc _____
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Queensland
Government

Department of
Resources

Unauthorised activity occurring on State land

The Department of Resources (the department) contacts you in respect to a building encroachment onto Unallocated State Lands (USL) and other items placed on USL at Ilbilbie without authorisation. The State lands relevant to this Advisory Notice are described as Lot 1 on SP266865.

These activities have been identified through a number of departmental channels, including:

- Notifications received under the *Survey and Mapping Infrastructure Act 2003*;
- Native Title tenure research investigations;
- Departmental State land inspection and maintenance programs;
- Customer generated enquiries/complaints.

The department is responsible for the management of state land on behalf of the people of Queensland by administering the *Land Act 1994* (the Act). This includes investigating offences under the Act, such as trespass related acts occurring on state land.

Under the Act, a person does a trespass related act when they do one or more of the following on state land without appropriate authorisation:

- occupy or live on it
- enclose it
- build, place or maintain any structure, improvement, work or thing on it
- clear, dig up or cultivate it
- depasture stock or cause stock to be depastured on it.

To cease a trespass related act, all improvements and any goods (including livestock) must be removed and the State lands must be left in a clean and tidy state. If you are responsible for the activities described, **please take immediate action** to cease all trespass related acts on the identified State lands.

Further information on state land in Queensland, including guidance about the different land tenure types or how to make a state land application, can be found on the Queensland Government website at: www.qld.gov.au/environment/land/state

Should you have any questions in relation to this matter please contact Megan Warrener of the department on 4999 6862 or email megan.warrener@dnrme.qld.gov.au

Yours sincerely

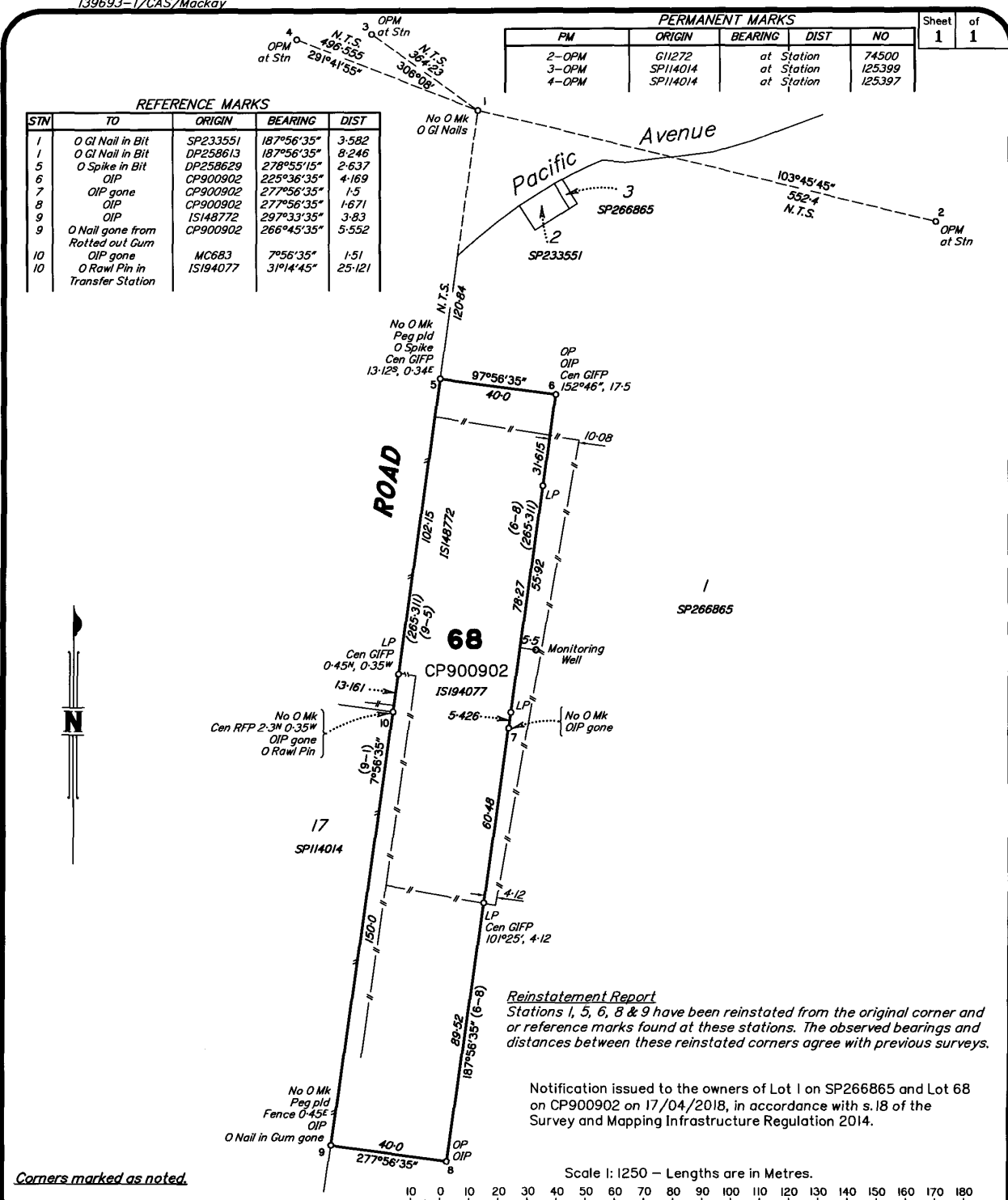
Brett Madigan
Principal Land Officer
Department of Resources

139693-1/CAS/Mackay

Sheet 1 of 1

PM	ORIGIN	BEARING	DIST	NO
2-OPM	GI1272	at Station		74500
3-OPM	SP114014	at Station		125399
4-OPM	SP114014	at Station		125397

STN	TO	ORIGIN	BEARING	DIST
1	O GI Nail in Bit	SP233551	187°56'35"	3-582
1	O GI Nail in Bit	DP258613	187°56'35"	8-246
5	O Spike in Bit	DP258629	278°55'15"	2-637
6	OIP	CP900902	225°36'35"	4-169
7	OIP gone	CP900902	277°56'35"	1-5
8	OIP	CP900902	277°56'35"	1-671
9	OIP	IS148772	297°33'35"	3-83
9	O Nail gone from Rotted out Gum	CP900902	266°45'35"	5-552
10	OIP gone	MC683	7°56'35"	1-51
10	O Rawl Pin in Transfer Station	IS194077	31°14'45"	25-121

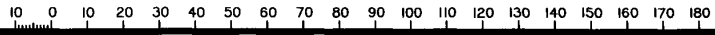


Reinstatement Report
 Stations 1, 5, 6, 8 & 9 have been reinstated from the original corner and/or reference marks found at these stations. The observed bearings and distances between these reinstated corners agree with previous surveys.

Notification issued to the owners of Lot 1 on SP266865 and Lot 68 on CP900902 on 17/04/2018, in accordance with s.18 of the Survey and Mapping Infrastructure Regulation 2014.

Corners marked as noted.

Scale 1:1250 - Lengths are in Metres.



RPS Australia East Pty Ltd (ACN 140 292 762) hereby certify that the land comprised in this plan was surveyed by the corporation, by Garry James DOBBIE, cadastral surveyor, for whose work the corporation accepts responsibility, and that the plan is accurate, that the said survey was performed in accordance with the Survey and Mapping Infrastructure Act 2003 and Surveyors Act 2003 and associated Regulations and Standards and that the said survey was completed on 7/3/2018.

G. J. Dobbie
 Authorised Delegate

Date 17-4-2018



RPS Australia East Pty Ltd
 ACN 140 292 762
 ABN 44 140 292 762

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 Mackay QLD 4740

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 F +61 7 4953 3622
 W rpsgroup.com.au

Plan of Identification Survey
 of
Lot 68 on CP900902

LOCAL GOVERNMENT: **ISAAC REGIONAL COUNCIL**
 LOCALITY: **ILBILBIE**



IS232598

MERIDIAN MGA Zone 55 - Wide GNSS	SCALE 1:1250	WORK ORDER 139693-1
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MEETING DETAILS

Water and Waste Standing Committee
Wednesday 10 March 2021

AUTHOR

Linda Roberts

AUTHOR POSITION

Manager Planning and Projects

5.5 IRCQ2013-1120-856 CORP SEWER NETWORK MANHOLE REHABILITATION

EXECUTIVE SUMMARY

This report seeks approval for the transfer of an additional \$400k funding from the Sewer Infrastructure Reserve source to Capital Works project CW212936 CORP Sewer Network Manhole Rehabilitation, and award the Contract IRCQ2013-1120-856 CORP Sewer Network Manhole Rehabilitation to the successful respondent Nixon Plumbing Pty Ltd.

OFFICER'S RECOMMENDATION

That the Committee recommends that Council:

- 1. Endorse the transfer of an additional \$400k excl GST funding to project CW212936 CORP Sewer Network Manhole Rehabilitation, with funds to be obtained from the Sewer Infrastructure Reserve source.***
- 2. Award the Contract IRCQ2013-1120-856 CORP Sewer Network Manhole Rehabilitation to the successful respondent Nixon Plumbing Pty Ltd for an amount of \$562,117.00 excl GST.***

BACKGROUND

IRC recently conducted manhole inspections of the entire sewer network in the township of Clermont, which identified that a large quantity of manholes have been buried and or damaged over time and are no longer easily accessible for ongoing maintenance purposes. The proposed works will address the affected manholes by raising to a conforming level at or above surrounding surface level, along with the rectification of any manholes which require rehabilitation or replacement.

This project is included in the Water and Waste 'Strategic Procurement Plan' with a budget of \$292k which allows for the award process to be carried out in accordance with Council Resolution 6926 which, Delegates the authority to the Chief Executive Officer to determine the successful tenderer for the listed works valued under \$1m under delegation LGR88 – "Power to enter into a medium-sized contractual arrangement or large-sized contractual arrangement in accordance with a quote or tender consideration plan adopted by local government resolution" under Section 230(1) Local Government Regulation 2012 subject to conditions.

The original budget estimate for the project was developed prior to finalisation of the defined scope. The pricing received from the current external market has confirmed that the budget pricing estimate was quite deficient in rate allowances and contract preliminary costs.

IMPLICATIONS

Financial

Insufficient funds are available to fund the construction works under project CW212936 which has a current budget availability of \$271,604.

DESCRIPTION	VALUE
Recommended Lowest Priced Submission	\$562,117
Current Total available budget	\$271,604
Current Shortfall (no allowances)	\$290,513
Contingency allowance @ 10% (tender)	\$56,211
Management Costs @ 10%	\$56,211
Current Estimated Shortfall (including allowances)	\$402,935

Hence authority is sought for the transfer of an additional \$400k of funding out of the IRC Sewer Infrastructure Reserve funding to CW212936 CORP Sewer Network Manhole Rehabilitation budget.

Risks

The manhole rehabilitation works are integral to the successful completion of the Sewer Network Relining Project in Clermont, which has a direct reliance on manhole accessibility to complete the relining works and is proposed to be undertaken concurrently. This project will address accessibility issues for the relining works by completing any manholes which impact the relining works as a matter of urgency and provide unimpeded access for the Relining Contractor. The Letter of Award is currently with the successful respondent for the Relining Contact.

The Project Manager has conducted an analysis of the works required to evaluate the opportunity to reduce the scope of works to be within the current budget availability. Due to the major reduction of the scope which would be required to align with the current budget, 40% of the lowest submitted price, this is not considered to be a reasonable option to the respondents and would require the works to be readvertised.

CONSULTATION

Director Water and Waste

Manager Planning and Projects, Water and Waste

Manager Procurement

Manager Operations and Maintenance, Water and Wastewater

Manager Financial Services (CFO)

BASIS FOR RECOMMENDATION

Request for Quote IRCQ2013-1120-856 CORP Sewer Network Manhole Rehabilitation

Submissions were requested on 11 January 2021 from a selected panel of five (5) suitable suppliers under Local Buy BUS270, along with IRC Preferred Suppliers list.

Submissions to the RFQ closed on 2 February 2021 with four (4) submissions received.

The highest priced submission was deemed to be non-compliant due to a number of factors including the response submission not being complete and not signed, several key items within the BOQ schedule were not priced and the information provided with the submission did not align with the RFQ documentation, including the proposal to complete the works under hourly hire, plus materials etc.

The contract comprises the rehabilitation of 119 existing manholes within the township of Clermont.

The works are required to improve the long-term accessibility to the manholes for operational and maintenance functions.

Submissions Received

NO.	RESPONDENT	PRICE (EXCL GST)
1	Nixon Plumbing Pty Ltd	\$562,117.00
2	Roebuck Civil Pty Ltd	\$654,291.40
3	Aquaflow (QLD)	\$1,089,926.37
4	Moranbah Plumbing (Non-compliant)	\$1,676,080.00

Evaluation Panel

An independent panel of experienced personnel was identified for the RFQ evaluation panel and performed the evaluation process in accordance with a specific RFQ Evaluation Plan.

PANEL MEMBER	POSITION
Chris Andersen (Evaluation Chairperson)	IRC W&W Project Manager
Peter Jeffries	IRC W&W Project Manager
Peter Fentiman	IRC W&W Network Supervisor

Mandatory Criteria and Selection Criteria

SELECTION CRITERIA	WEIGHTING
Demonstrated Understanding and Program	10%
Relevant Experience	20%
Key Personnel, Skills, Experience and Resources	10%
Local Content	20%
Price	40%

Evaluation and Scoring

Following individual scoring of each response by the evaluation panel members, a shortlist was identified involving the top two higher ranked respondents and agreed on some minor clarifications which required responses to finalise the evaluations.

Outcome

The scoring outcome for the submitted respondents following the clarification responses, ranked the RFQ submissions as follows:

WATER AND WASTE

TENDERER	SCORE (100)	RANK
Nixon Plumbing Pty Ltd	87.33	1
Roebuck Civil Pty Ltd	77.69	2
Aquaflow (QLD)	56.96	3
Moranbah Plumbing (Non-compliant)	53.08	4

ACTION ACCOUNTABILITY

The Manager Planning and Projects, Water and Waste to ensure the Contract is managed in accordance with Contract conditions.

Project management actions and accountability will be provided by the Water and Waste Directorate representatives following contract award.

KEY MESSAGES

The award of this Contract will comply with Council's plan to provide quality infrastructure capable of meeting the community needs and catering for future economic growth.

There will be a moderate amount of local industry participation in the contract by subcontractors and suppliers.

Report prepared by: Linda Roberts Manager Planning and Projects Water and Waste Date: 2 March 2021	Report authorised by: Gary Murphy Director Water and Waste Date: 2 March 2021
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ATTACHMENTS

- CONFIDENTIAL Attachment 1 - IRCQ2013-1120-856 CORP Sewer Network Manhole Rehabilitation - Combined Evaluation Scorecard

REFERENCE DOCUMENT

- Council Resolution 6926

PAGES 48 TO 81 HAVE INTENTIONALLY BEEN REMOVED DUE TO CONFIDENTIAL REASONS

MEETING DETAILS

Water and Waste Standing Committee
Wednesday 10 March 2021

AUTHOR

Gary Murphy

AUTHOR POSITION

Director Water and Waste

6.1 WATER AND WASTE INFORMATION BULLETIN – MARCH 2021

EXECUTIVE SUMMARY

The Water and Waste Directorate Information Bulletin for March 2021 is provided for review.

OFFICER'S RECOMMENDATION

That the Committee:

- 1. Note the Water and Waste Directorate Information Bulletin for March 2021.**

BACKGROUND

The attached Information Bulletin for March 2021 provides an operational update for review on the Water and Waste Directorate.

IMPLICATIONS

Any specific implications or risks will be outlined in the Information Bulletin.

CONSULTATION

Water and Waste Directorate Managers and Staff.

BASIS FOR RECOMMENDATION

This is an information only report.

ACTION ACCOUNTABILITY

Information only report.

KEY MESSAGES

Operational update to Elected Members.

Report prepared by:	Report authorised by:
GARY MURPHY	GARY MURPHY
Director Water and Waste	Director Water and Waste
Date: 3 March 2021	Date: 3 March 2021

ATTACHMENTS

- Attachment 1 – Water and Waste Information Bulletin – March 2021

REFERENCE DOCUMENT

Nil

DATE: March 2021

WATER AND WASTE

DIRECTORATE HIGHLIGHTS

- Director Worker for a Day occurred in Moranbah 9 February 2021. Worker for a day involves visit to WTP, WWTP, Waste Management Facility, as well as time with Plumbers. A great opportunity to better understand and appreciate the challenges that Operations and Maintenance staff encounter daily, and to see what they do and how they do it. This month assisted with a water meter repair, skip changeovers at transfer station, general inspection of water plant, planning for belt press at WWTP.
- The Water and Waste Business Services team won the Hazard Hunter award for December 2020, demonstrating that identifying hazards is just as important for indoor staff. See image from presentation further on in report.
- The WHS LGM Safety Audit outcome and the contribution of the Directorate.

Emerging Risks

- Council has received notification from the Department of Natural Resources in regard to an encroachment of land at the Greenhill Waste Management Facility site located on Lot 1 on SP266865. See commentary in Water and Wastewater Emerging Risks.
- Disparity in standpipe water pricing for recycled water in different towns and developing a pathway to harmonisation.
- CW202809 Moranbah Landfill Remediation has further concerns raised by subcontractors and suppliers regarding delays in payment by Synergy Resource Management. Current expenditure \$1.86M, contractor is on site and has completed land fill reshaping, supply and placement of cover material, and is now placing the clay capping.

BUSINESS SERVICES

PREVIOUS MONTH'S ACHIEVEMENTS:

- The Business Services team won the Hazard Hunter award for December 2020, demonstrating that identifying hazards is just as important for indoor staff. The hazard identified was with regard to the Zip Hydro Tap in the lunchroom which was expelling hot water when the cold water tap was turned on. The award prize afternoon tea and presentation was held Wednesday 24 February 2021.



- The Water & Waste IMS contributed to the success of the LGW Mid-Term Safety Audit and was recognised throughout the Audit Report for its role in the high level of compliance achieved by IRC.

FINANCIAL REPORT:

Fees and Charges Schedule 2021/2022

Recycled Water – Truck Fill Point/Standpipe

- There is significant disparity across locations for the purchase of recycled water by standpipe dependant on whether it uses an AVDATA (automated fob) system or it requires manual input. W&W are recommending we work to standardise these rates across all recycled water standpipes. Currently Moranbah is fitted with AVDATA and customers are charged \$0.07/kL and DYS and MMT have no AVDATA and are charged \$0.70/kL. The recommended price path would be as follows incorporating a 2% inflation charge:

	20/21	21/22	22/23	23/24	24/25
Manual	\$ 0.70	\$ 0.71	\$ 0.73	\$ 0.74	\$ 0.76
AVDATA	\$ 0.07	\$ 0.20	\$ 0.35	\$ 0.55	\$ 0.76

Significant changes will affect Moranbah recycled water standpipe users only. In the last 12 months 23 different suppliers (including IRC) have accessed the Moranbah standpipe with a total of 4238kL of usage.

Although AVDATA assists to automate the process it has other significant costs (account keeping fees, active fob fees, etc.) and when coupled with the costs of treating the effluent to Class A, makes the current rate of \$0.07/kL insufficient.

Disposal of Septic Waste

- W&W are recommending we create a tiered system of charging for septic disposal, reducing the current fee of 15c/L to 10c/L if the disposal amount is greater than 200,000L in that billing month. It is hoped that this change will attract businesses who are currently utilising facilities outside of the Isaac region.

Changes to the Fees and Charges Schedule 2021/2022 will be presented to Council for endorsement in May/June 2021.

DEVIATION FROM BUDGET AND POLICY:

- Septic disposal charges for January 2021 have been processed late due to an administrative error.

- All end of month billing for February 2021 will be processed by 3 March 2021 in preparation for a scheduled financial audit.

OPERATIONAL PLAN / BUSINESS PLAN – EXCEPTION REPORTING

PROJECT TITLE	COMMENTS
Implement Clermont Water Quality Response Plan and associated Communication Plan	Phase 2 of the Comms Plan has begun and will include community consultation at the Clermont Water Treatment Plant Open Day in April 2021
Review of charging unit's methodology for water and wastewater infrastructure charge	18-month sewerage charges review endorsed January 2021. Minor changes to be workshopped with Council leading up to the endorsement of the 21/22 Revenue Statement.

NEXT MONTH'S PROGRAM:

- Tenants or agents wishing to register properties in MiWater must have the owner's approval to access and also requires the owner to be registered in MiWater themselves. A gap has been identified in which tenants or agents are not notified if the owner is not registered in MiWater creating significant processing delays. The Business Services team are currently working with Taggle Systems to have a new feature developed to address this issue.
- The Business Services team are workshopping to develop an action plan to address the outcomes in order of High, Medium and Low Priority as listed in the Meter Reading Strategic Plan.
- The W&W Management group are meeting to finalise operational projects to be included in the 21/22 W&W Annual Performance Plan.

DEVELOPING INITIATIVES / ISSUES:

Water Restrictions

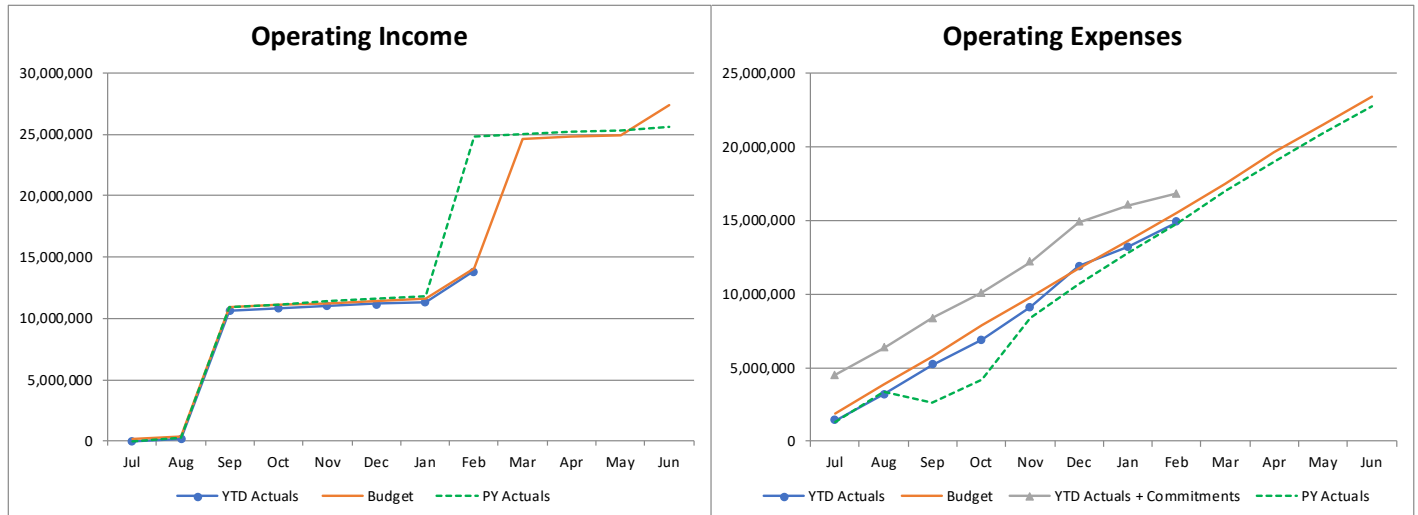
CURRENT & PROJECTED	LEVEL 1		LEVEL 2		LEVEL 3	
	Start Date	End Date	Start Date	End Date	Start Date	End Date
Middlemount	16/03/2019	18/11/2019	18/11/2019	10/01/2021	11/01/2021	
St Lawrence	10/09/2020	13/12/2020	14/12/2020			

Standpipe Exemptions for use during Water Restrictions

APPROVED EXEMPTIONS	TYPE	AVERAGE WEEKLY REPORTED CONSUMPTION	REPORTED USAGE
External Consumer Middlemount	Domestic Human Consumption	1,680KL	Providing to mine sites

WATER & WASTEWATER

FINANCIAL REPORT:



See Q2 reporting.

DEVIATION FROM BUDGET AND POLICY:

As per Q2 reporting for budget. No known deviations from policy.

PREVIOUS MONTH'S ACHIEVEMENTS:

Strategy (i.e. C5)	Service Area	Description	Monthly Status Update	Annual Status Update
15	Provision of safe and reliable water supply services – monitor performance and undertake remedial action where required	Incidence of unplanned interruptions – < 70 per 1000 connections / year Total Water connection in IRC = 8479 Allowable Target 20/21 593	34	145 (below target)
15	Provision of safe and reliable water supply services – monitor performance and take remedial action where required	Water main breaks – < 40 per 100 km / year Total Length of water main at IRC = 245 km Allowable Target 20/21 98	7	114 (above target)
15	Provision of safe and reliable water supply services – monitor performance and take remedial action where required	Water quality complaints – < 20 per 1000 connections / year Total Water connection in IRC = 8479 Allowable Target 20/21 170	0	9 (below target)

15	Provision of effective sewerage transport and treatment services – undertake / investigate – system condition and functionality, monitor performance and undertake remedial action where required	Wastewater Mains breaks and chokes – < 40 per 100 km / year Total Length of wastewater main at IRC = 202 km Allowable Target 20/21 81	0	33 (below target)
15	Provision of effective sewerage transport and treatment services – undertake / investigate – system condition and functionality, monitor performance and undertake remedial action where required	Wastewater complaints – Overflow on property and odour < 15 per 1000 connections / year Total Wastewater connection in IRC = 7879 Allowable Target 20/21 118	0	26 (below target)
15	Provision of safe and reliable water supply and effective sewerage transport and treatment services	Total Water and Sewer Complaints (any nature) – < 100 per 1000 connections / year Total Water connection in IRC = 8479 Allowable Target 20/21 848	7	182 (below target)

PREVIOUS MONTH'S ISSUES:

Raw Water Sources for Isaac Regional Towns

The following diagram provides an update on raw water sources, water levels in dams, water used to date if applicable, and current water restrictions in place for each Isaac Regional town.

Recent rains have seen the levels of most water source increase.



Glenden

Raw water for Glenden is provided from the Bowen River which can be refilled from Gattonvale off-stream storage and Eungella Dam.

- Newlands Coal Mine (Xstrata) **N/A**
- Bowen River Weir **107%**

No Water Restrictions

Nebo

Nebo's raw water is supplied through six bores. The new water treatment plant and reservoir as part of the Nebo Water Supply Project have 2ML storage on site.

- See graph below for water levels in Bore 2.

No Water Restrictions

Carmila

Raw water is supplied from two shallow bores located near the Carmila Ck approx 1km from the WTP.

- Water is flowing over the weir near the bore.

No Water Restrictions

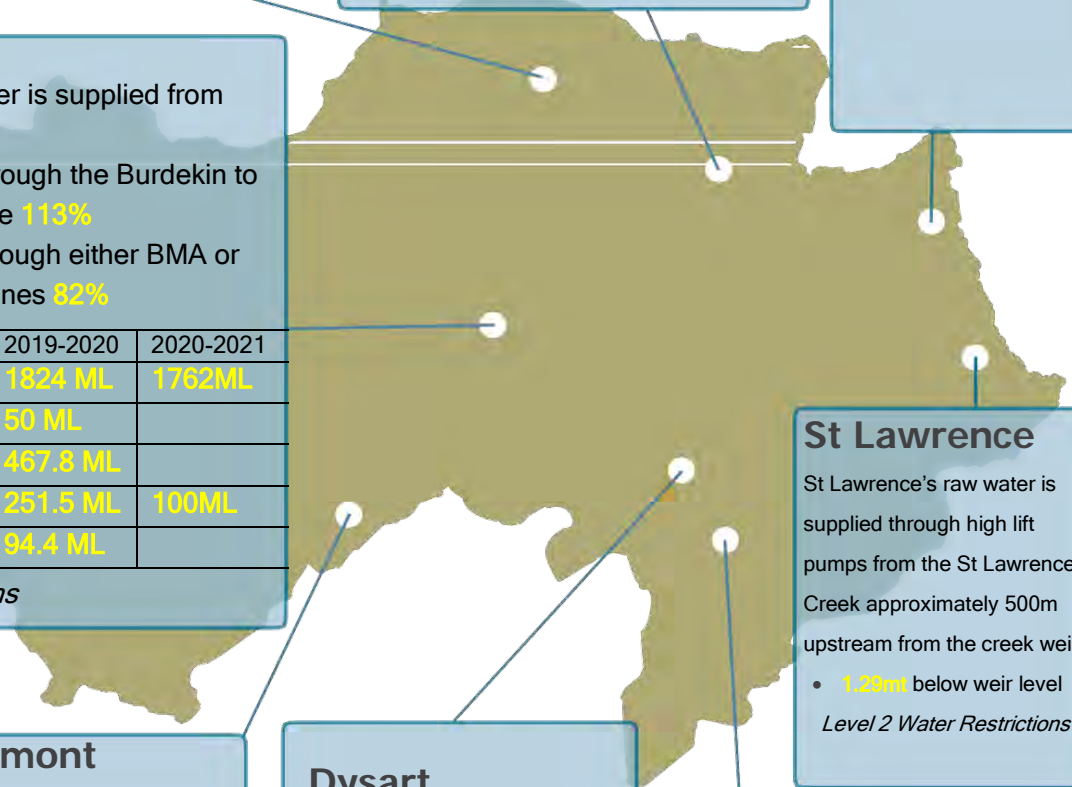
Moranbah

Moranbah's raw water is supplied from two sources:

- Burdekin Dam through the Burdekin to Moranbah pipeline **113%**
- Eungella Dam through either BMA or SunWater's pipelines **82%**

Water used to date:	2019-2020	2020-2021
• BMA:	1824 ML	1762ML
• Dyno:	50 ML	
• Stanmore:	467.8 ML	
• Sunwater:	251.5 ML	100ML
• Pembroke:	94.4 ML	

No Water Restrictions



St Lawrence

St Lawrence's raw water is supplied through high lift pumps from the St Lawrence Creek approximately 500m upstream from the creek weir.

- **1.29mt** below weir level

Level 2 Water Restrictions

Clermont

Clermont's raw water is supplied from Theresa Creek Dam

- **.13mt below dam wall spillway**

No Water Restrictions

Dysart

Dysart's raw water is supplied from Bingegang Weir in the Mackenzie River which can be re-filled from Fairbairn Dam, through Bedford Weir.

- Bingegang Weir **95%**

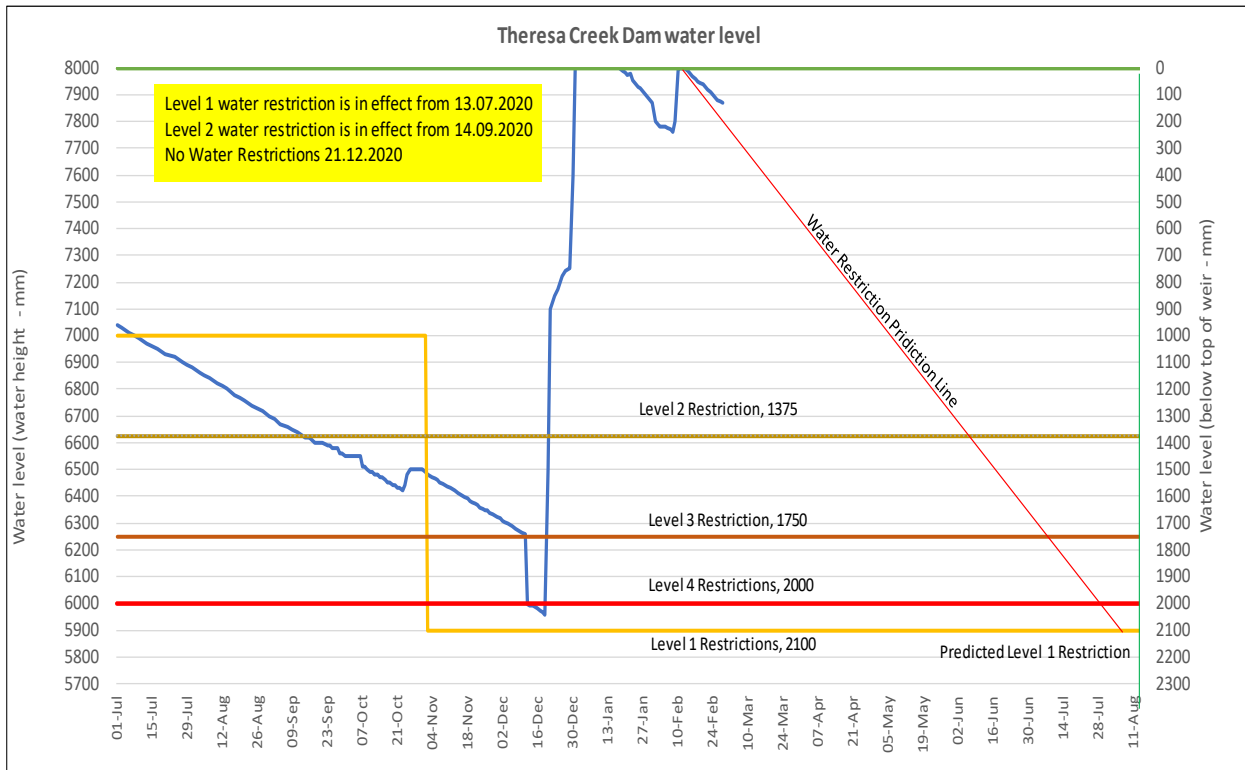
No Water Restrictions

Middlemount

Middlemount's raw water is supplied from the Bingegang Weir on the Mackenzie River approximately 60km away. The weir is can be re-filled from Fairbairn Dam through Bedford Weir.

- Bingegang Weir **95%**
- Fairbairn Dam **13%**
- Bedford Weir **98%**

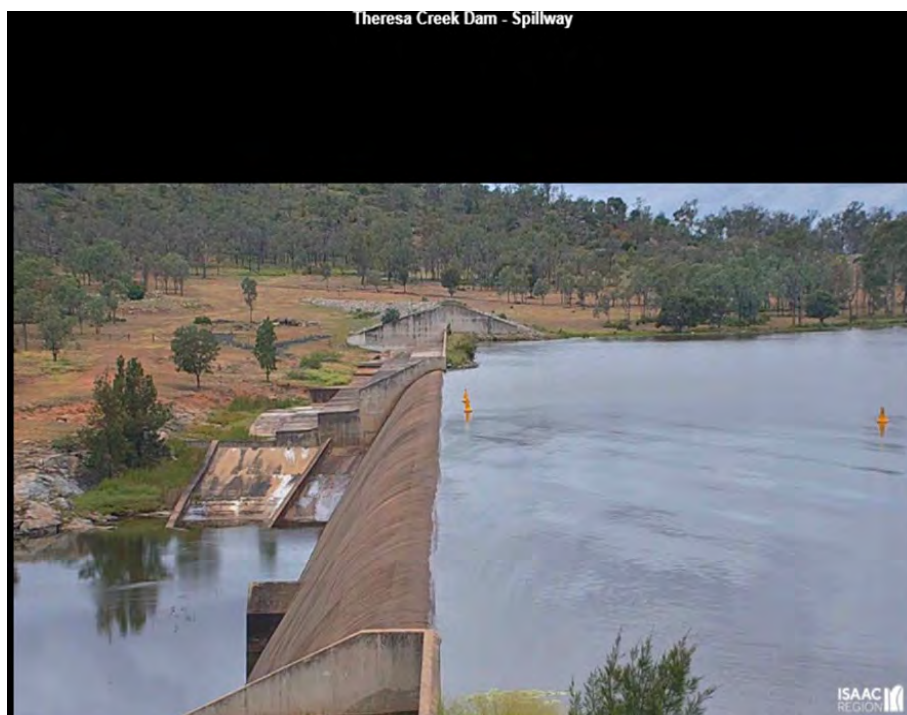
Level 3 Water Restrictions



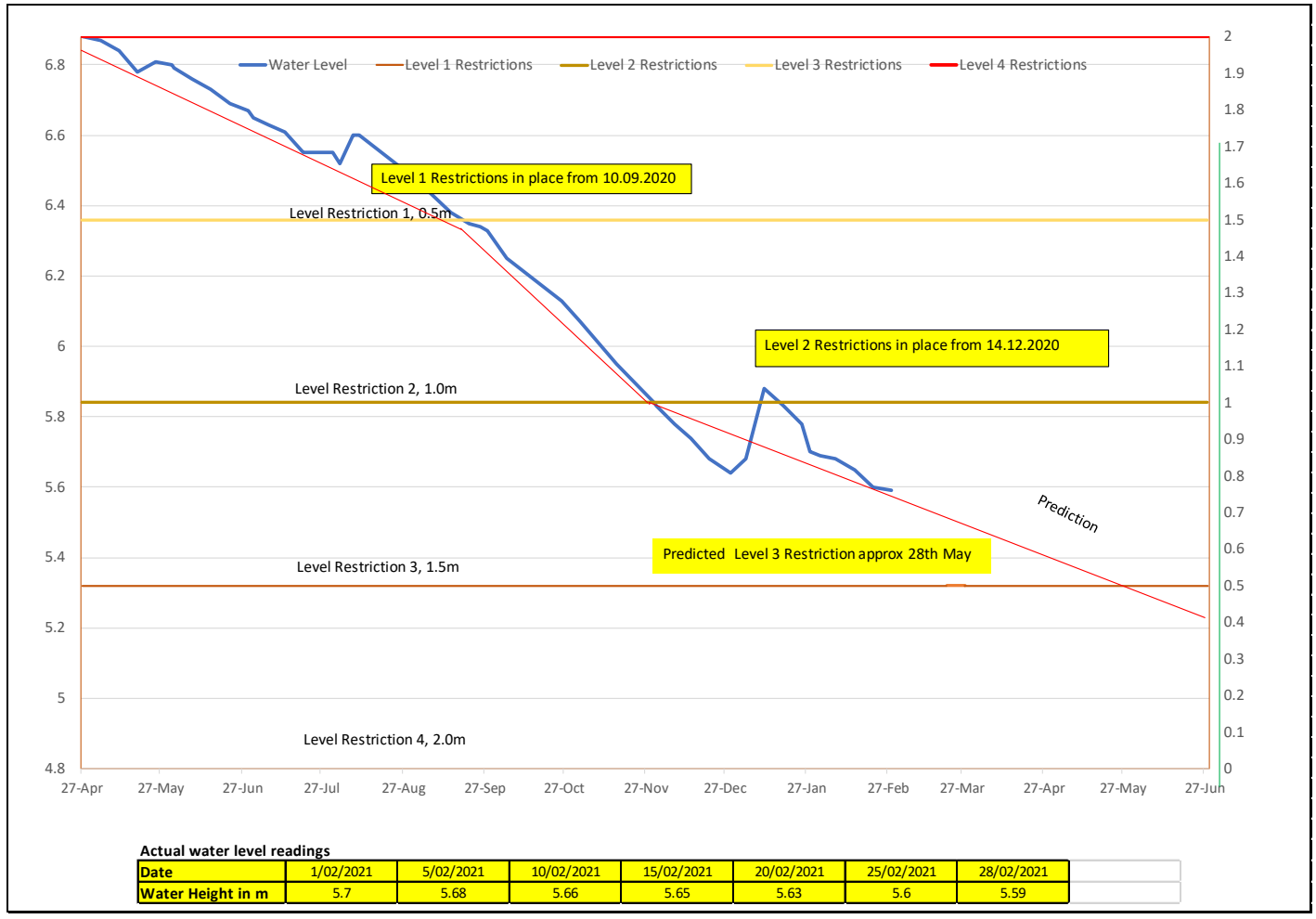
Actual water level readings

Date	1/02/2021	4/02/2021	8/02/2021	12/02/2021	16/02/2021	20/02/2021	24/02/2021	28/02/2021
Water Height in mm	7800	7780	7760	8000	7970	7940	7900	7870

Note: 48.5mm of Rainfall recorded at Theresa Creek Dam during February.



Theresa Creek Dam – Spillway



Note: 5mm of Rainfall recorded at St Lawrence during February.

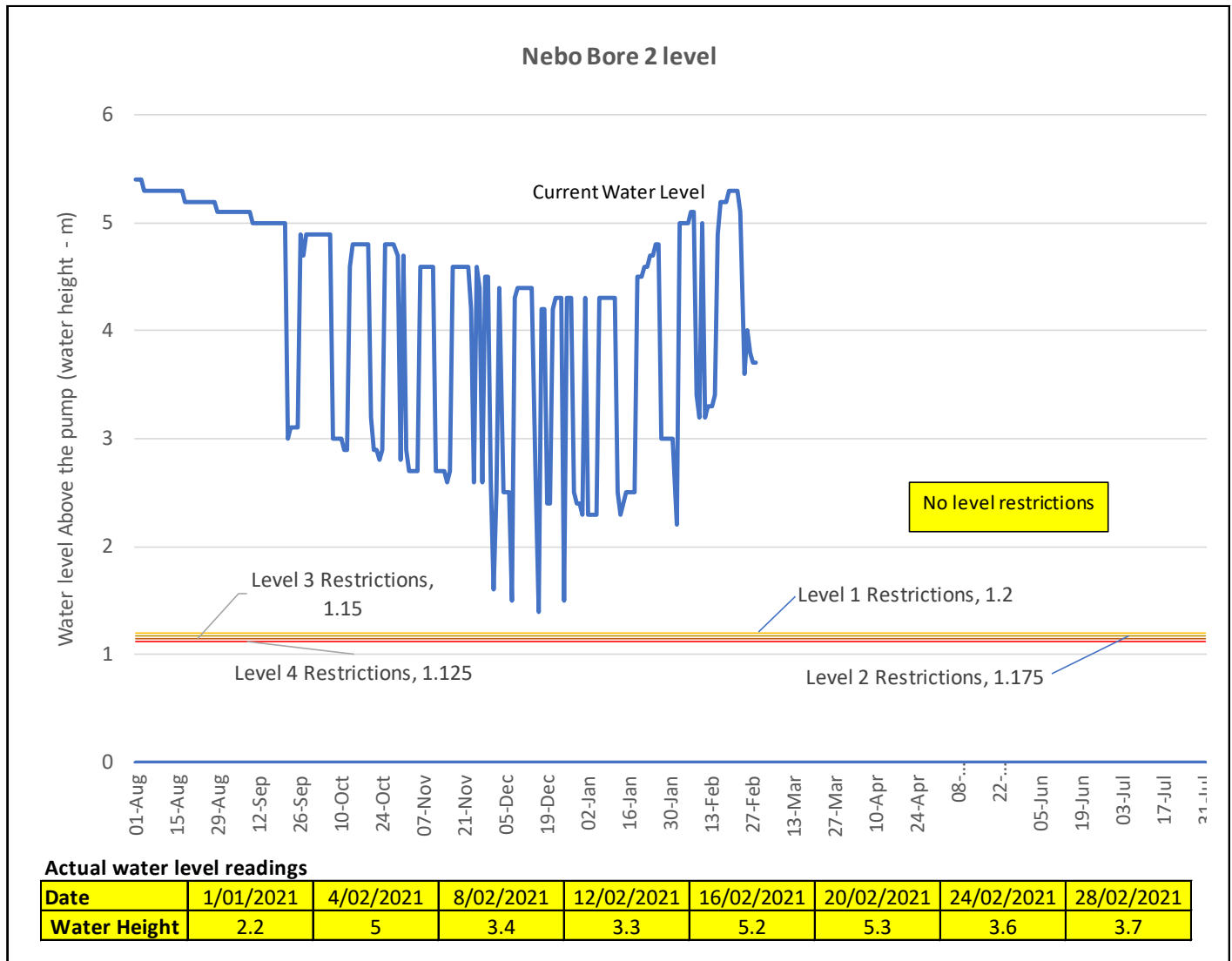


St Lawrence Weir as of 25/02/2020



Carmila raw water Creek photo from bore pumps as of 28/02/2021. Creek is flowing.

Camila has received 145mm of rain during February 2021



Compliance

The table below contains current statutory undertakings across all assets.

	TARGET DATE FOR COMPLETION	COMMENTS
Nebo WWTP TEP	Completion of the TEP is as per the notification provided by DES.	All timelines being met to date.
Dysart ESD and WWTP EU	An EU extension has been granted to the 30/06/2021 when project works as described in schedule of works supplied to DES and a final audit has been supplied to the department.	Suitable experienced professionals engaged to carry out Audit in March with draft report to be provide in April for review. All timelines are being met.

Formal Warning Moranbah Effluent Dam	A formal warning was received from the regulatory authority DES in relation to Moranbah Effluent Dam, by failing to submit the required dam reports by 1 December 2020.	Response has been sent to the DES in regard to the formal warning matters of concern. Moranbah Effluent Dam report has been completed and supplied to the regulator. The department has also requested information on the scope of works in the Effluent dam report recommendations. A table indicating the scope of works is being collated and will be supplied by the end of March.
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OPERATIONAL PLAN / BUSINESS PLAN – EXCEPTION REPORTING

NEXT MONTH'S PROGRAM:

Scheduled to Commence During Next Month

PROJECT NAME/ DESCRIPTION	SCHEDULED END DATE	COMMENTS/EXCEPTIONS
Nebo Aquifer water allocation increase	TBA	Running to schedule. Draw down of bores project to begin 15 March 2021. Prestart meeting with Operations team organised on 1 March 2021 to discuss project management.
WTP Site Based Management Plans	Feb 2021	Documents almost finalised and then to progress to approval process.
WWTP Site Based Management Plans	June 2021	Document review underway
Waste Site Based Management Plans	Dec 2021	Next for review
Compliance and Environmental Management Plan (CEMP)	Feb 2021	Further development required. Currently being reviewed by IMS Coordinator and Manager Business Services.
Clermont Sandy Creek Alluvium Water Licence	TBA	The Department of Natural Resources has replied to Councils request for adding the 2 monitoring bores as operational bores in the current license. Clarification on processes has been provided on the options to Council and a decision on progression of this action is TBC.

DEVELOPING INITIATIVES / ISSUES:

- Budgeting for Moranbah Effluent Dam assessment to meet the recommendations of the Moranbah Effluent Dams Inspection Report.
- Seeking Councils approval and acceptance of recommendations in the Cardno Water Supply Analysis report for restrictions triggers.
- Recycled water meters at Dysart to be included in MiWater with taggle installation advised by end of April.

Emerging Risks:

- Council has received notification from the Department of Natural Resources in regard to an encroachment of land at the Greenhill Waste Management Facility site located on Lot 1 on SP266865. Council has responded to this notification however there is a need to purchase the land as advised by the Waste Services Manager. Reasons for purchase is fence relocation to the property boundary will severely impact the contractor

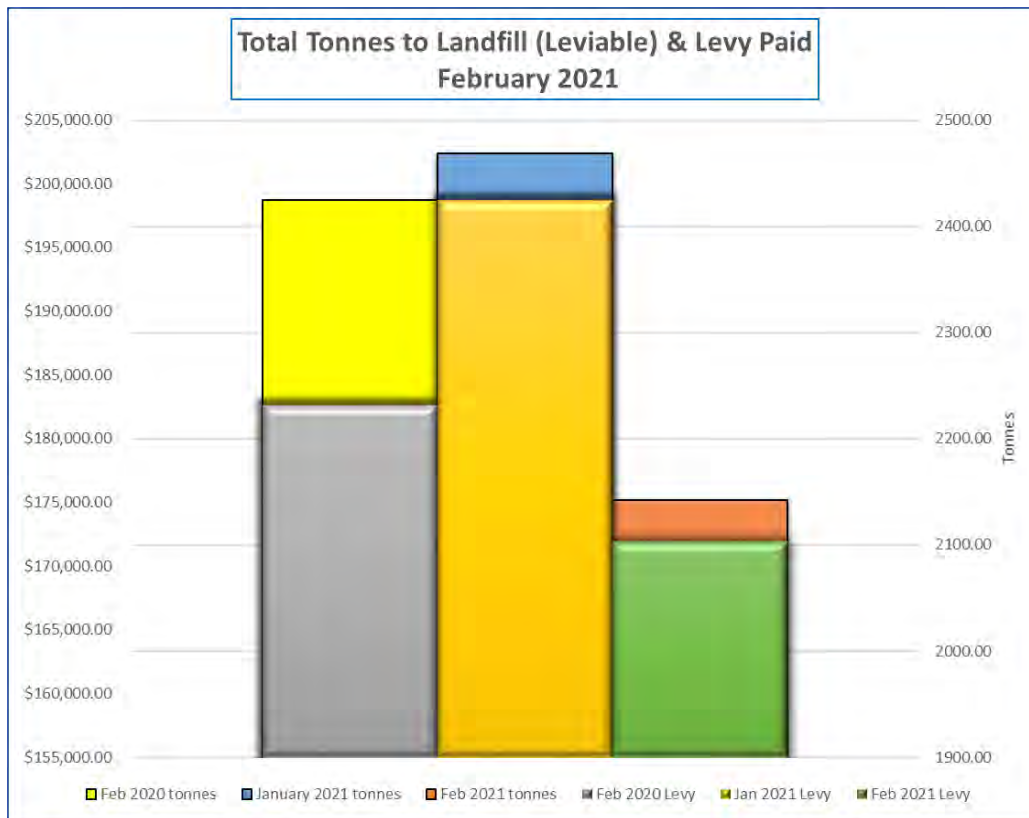
collection service and the monitoring bores required for leachate monitoring are also located on the encroached land. The area of land to be purchased is approximately 1350m².

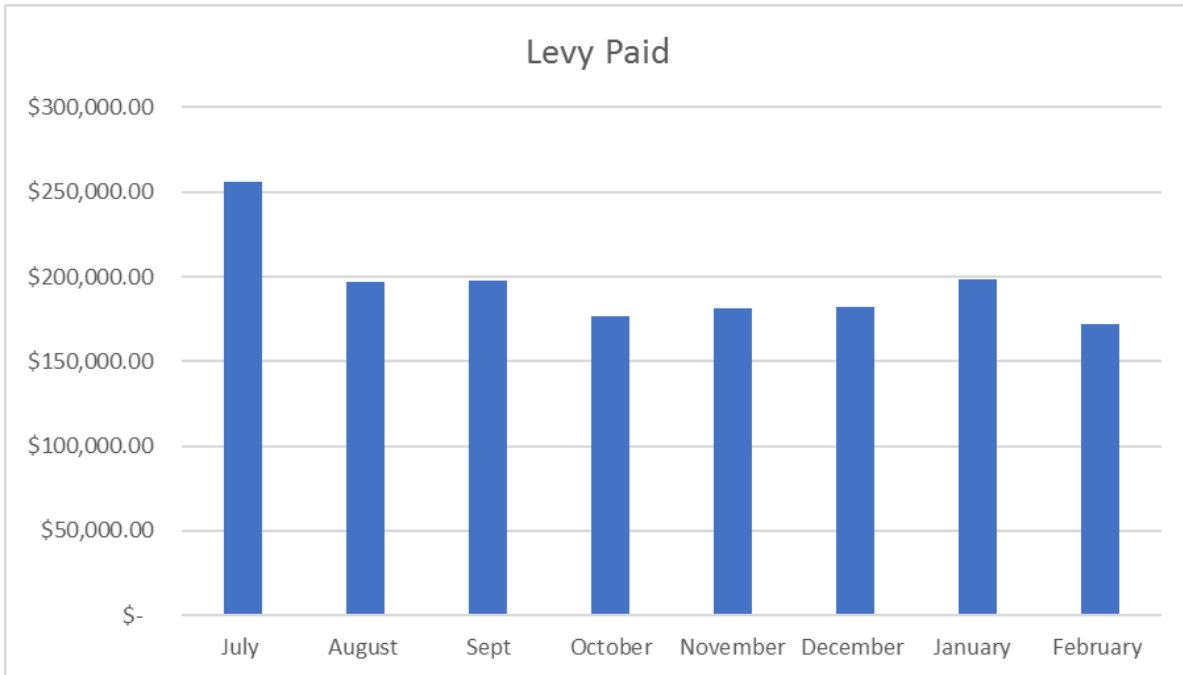
WASTE SERVICES

PREVIOUS MONTH'S ACHIEVEMENTS:

Waste Tonnage and Waste Levy

The following diagram shows a comparison of the tonnage of waste being landfilled in February compared to 2020.

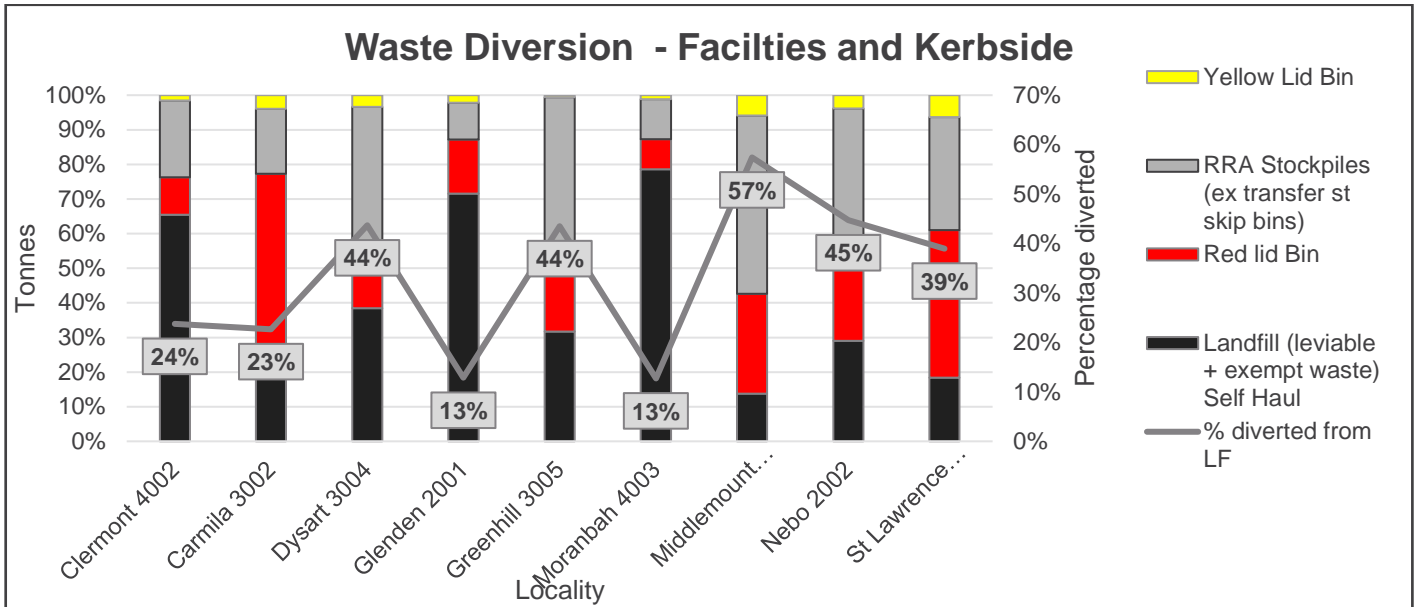




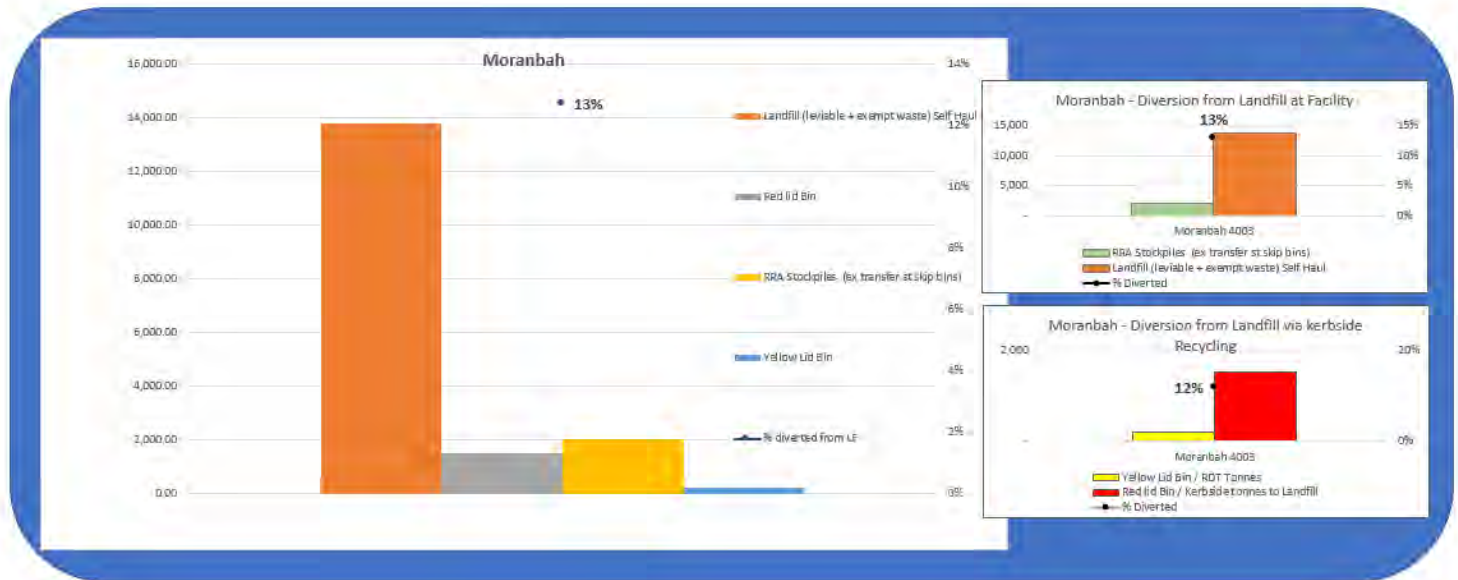
This graph also illustrates the degree to which monthly totals fluctuate.



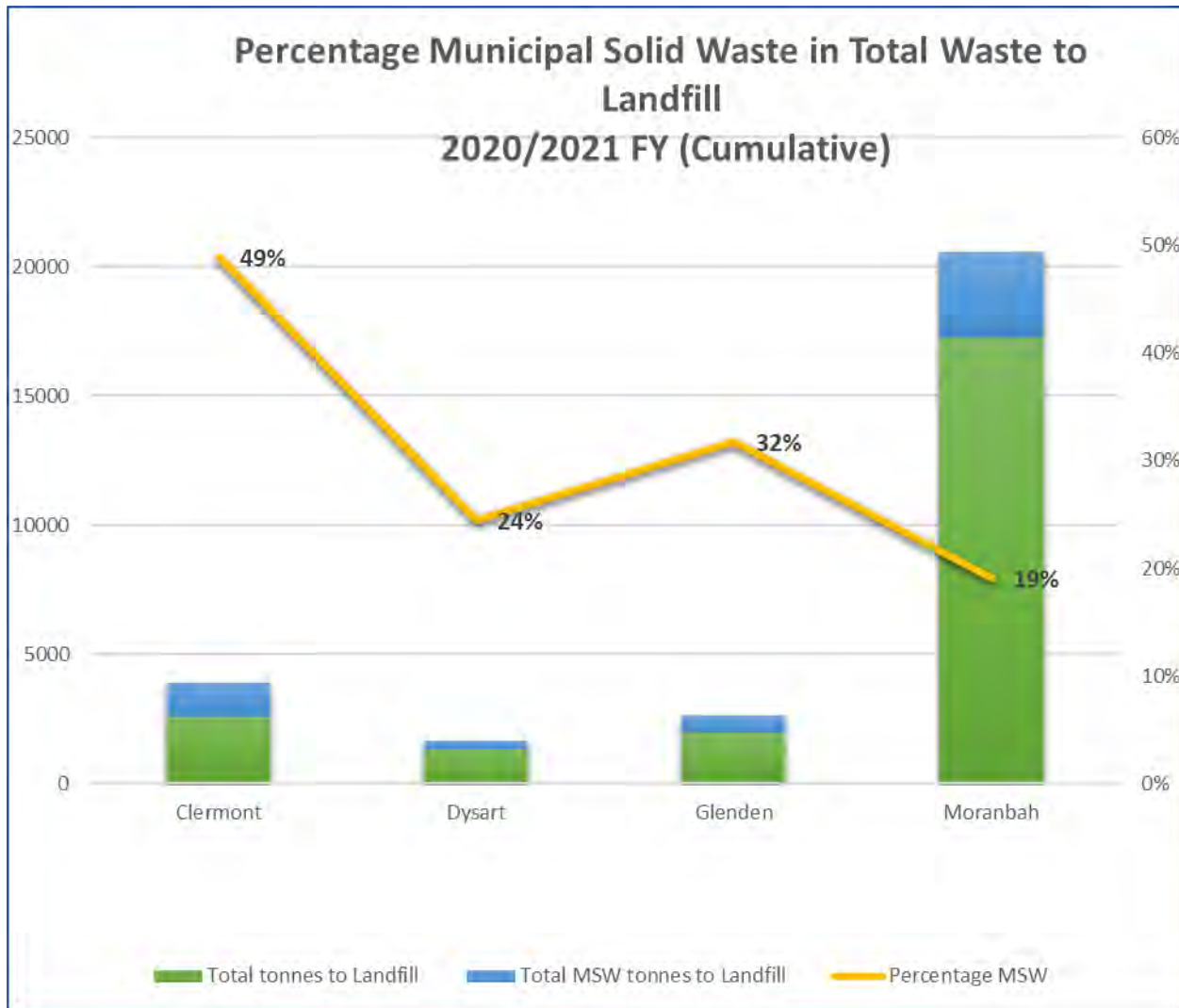
The following graph shows the degree to which kerbside yellow top bin collections and resource recovery activities at each site contribute to overall waste diversion performance



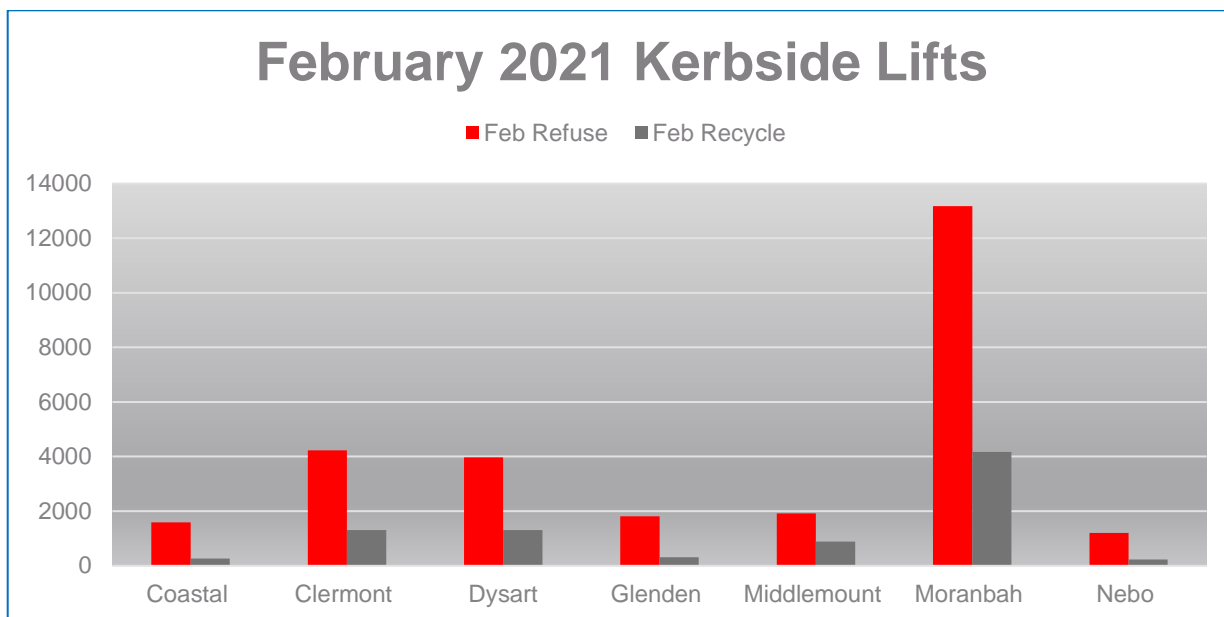
The following graph shows Moranbah only – with only 13% diversion from landfill at the site.



However the following graph illustrates the challenge – with 81% of the waste being commercial and only 19% being of municipal waste origin.



This graph illustrates the low participation rate for the yellow-top service in February/



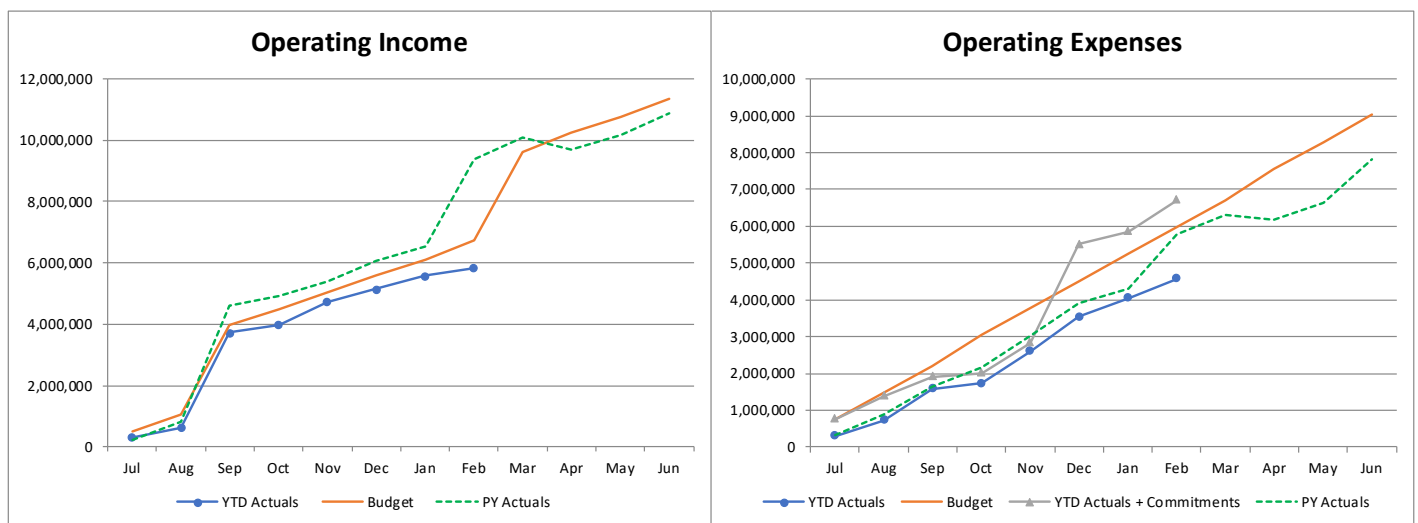
Waste Collection

Performance against rectifying missed bins has dipped, however the overall numbers of missed collections remains very low. Provisional figures for February show 27 missed collections (final figures not yet available). The figures indicate 89% of missed collections were rectified within the 36 hour rectification period, however the numbers are very small overall.

PREVIOUS MONTH'S ISSUES:

Not applicable.

FINANCIAL REPORT:



As per Q2 reporting.

DEVIATION FROM BUDGET:

OPERATIONAL PLAN / BUSINESS PLAN – EXCEPTION REPORTING

Waste & Recycling Contract						
	Number of missed services	Collection of Missed Service		Bin Repair / Replacements		
KPI	<10/5000 Services = less than 121 missed services for the month	No of missed bins collected within 36 hours	90% within 36 hours of contractor being notified	No of requests	No of requests completed within 5 working days	90% within 5 working days of request
Feb	27	24	89%	21	21	100%

Waste and Recycling Performance						
	Tonnes to Landfill (leviable)	Tonnes to RRA	Tonnes diverted via Kerbside Recycling	Tonnes sent off site for Sale or to processor	% of Waste diverted from Landfill	No of Kerbside Recycling Services Vs Presentation rate
KPI	N/A	N/A	N/A	N/A	>25%	
Feb	2144	505	49.7	70	22%	8476 = 42%

Compliance						
	Compliance with Environmental Authority (EA)	Notice of scheduled site closures	Customer complaints non-price related	Nuisance complaints (odour/litter)		No of Transactions
KPI	Compliance with all elements of EA >95%	>7 days notice	Number of complaints / 1,000 transactions / site <10 / annum	Number of complaints / 1,000 transactions / site <20 / annum		N/A
Feb		0	1	1	6268 (64% Domestic) = 9% lower than Feb 2020; 22% lower than Jan 21	

NEXT MONTH'S PROGRAM:

Scheduled to Commence During Next Month

Project Name/ Description	Scheduled End Date	Comments/Exceptions
Green Waste Tender	31 March	RFT – close date 19 March 2021

DEVELOPING INITIATIVES / ISSUES:

Fees & Charges

Whilst working on the detail of this, officers have discovered an anomaly which creates potential inequality across the region. Whilst a minimum charge (\$31) for non-landfill waste exists at weighbridge sites, at deemed sites it is possible to be charged considerably less (\$11.40) than this amount for certain wastes e.g. green waste.

The minimum charge had been introduced with the original 2011 waste levy to compensate for the loss of revenue which would have occurred when partly-loaded vehicles began to be weighed at the newly introduced Moranbah weighbridge. The minimum charge applied to all wastes whether landfilled or recycled. When the waste levy was reintroduced, Council introduced a separate minimum charge for non-landfilled wastes, so that customers bringing such wastes would not be charged the waste levy.

Officers are exploring various options to deal with this, including:

-
- No change
 - Remove minimum charge for weighed non-landfill waste and charge for tonnes as determined by the weighbridge only (change to weighbridge facilities). Outcome = estimated revenue decrease of \$20K per year.
 - Apply the deemed charge of 200Kg as the minimum charge across all sites. Currently charged at 7/9 sites (change to weighbridge facilities). Outcome = estimated revenue decrease of \$22.5K per year.
 - Apply the minimum charge for weighed non-landfill waste across all sites (change at deemed facilities). Outcome = revenue increase of \$17K per year. Approx. 18 commercial clients would see a 62% increase
 - Apply median charge \$23 as minimum charge across all sites (change at all sites, decrease at weighed facilities, increase at deemed facilities). Outcome = estimated revenue decrease of \$6K per year. Future F&Cs setting would be streamlined across the region.
 - Incrementally increase charges annually at deemed sites over 3 or 4 years until minimum weighed charge is reached.

Illegal Dumping Management and Intervention Plan

Work is progressing on this cross departmental initiative, being led by PECS. Initial planning underway for Amnesty days which will establish the effectiveness, response to, and costs of offering amnesty day(s) where the public can drop off normally chargeable items (fridges, freezers, mattresses, tyres) at the waste site for free on specific, pre-advertised days. Currently working on logistics, e.g. additional staff members who may be required to cope with additional traffic on the day, and how to manage collection of the data in Council's Mandalay system. Considering Clermont, Moranbah and Dysart initially for a trial, programmed for between late March and early May.

PLANNING & PROJECT DELIVERY

PREVIOUS MONTH'S ACHIEVEMENTS:

Significant Projects Update:

CW202817 Dysart WWTP Balance Tank

The Balance tank will improve the operation of the Wastewater Treatment Plant by evening out the inflow and ensuring the plant operates at optimal efficiency.

The project is reaching completion with the tank 100% completed, pumps installed, valves installed, pipework 99% complete, and electrical installations 99% completed. The tank has been filled with recycled water to test its integrity with commission and testing the system to occur on the 1st and 2nd of March. Project to be completely finished by end of March.



Figure 1: Balance Tank.



Figure 2: Balance tank full of recycled water during testing



Figure 3: Pump well and switchboard shed



Figure 4: New pumps

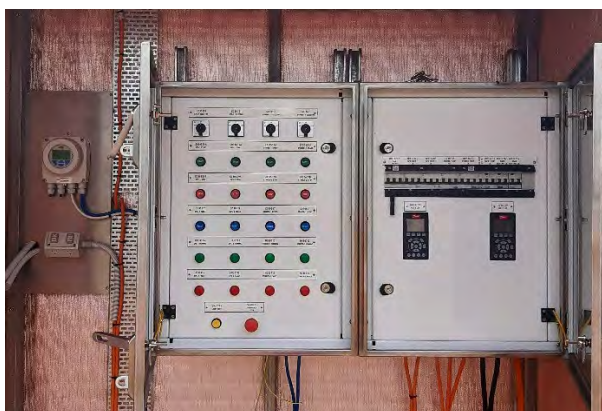


Figure 5: New electrical switchboard



Figure 6: Wearer box and associated pipework (diverts the raw sewage to the balance tank).

Dysart Environment Undertaking (EU)

The auditor required as part of the EU has been initiated with site visit completed Thursday 25th February. When the Balance Tank project is completed then it will be included in the finalised auditor report to the Regulator to close out the EU.

CW182564 Capricorn Reservoir Project

The defect identified on the new overflow pipe has been rectified by the contractor at their expense. There have been additional valves and a new cross connection within the network installed. Both activities will improve functionality of filling Capricorn St reservoir with minimising impacts on the customers. The reservoir will be filled this week and tested prior to final commissioning 2nd week of March.

CW202809 Moranbah Landfill Remediation

Project awarded at Ordinary Meeting 28/04/2020 to Synergy Resource Management. Current expenditure \$1.86M, contractor is on site and has completed land fill reshaping, supply and placement of cover material, and is now placing the clay capping. Progress has been slow, with the contractor likely to be 6 months late in the delivery of this project. The delays have been caused by slow progress within all stages of the work and cover stages due to construction issues, and contractor inexperience. The contractor has been encouraged to improve their productivity. Concerns have been raised about subcontractor payments. Currently legal advice is being sought on issues with the project.

Clermont Water Quality Action Plan Update

There are several actions which Planning and Projects are responsible for. The below list contains the action and commentary on the action.

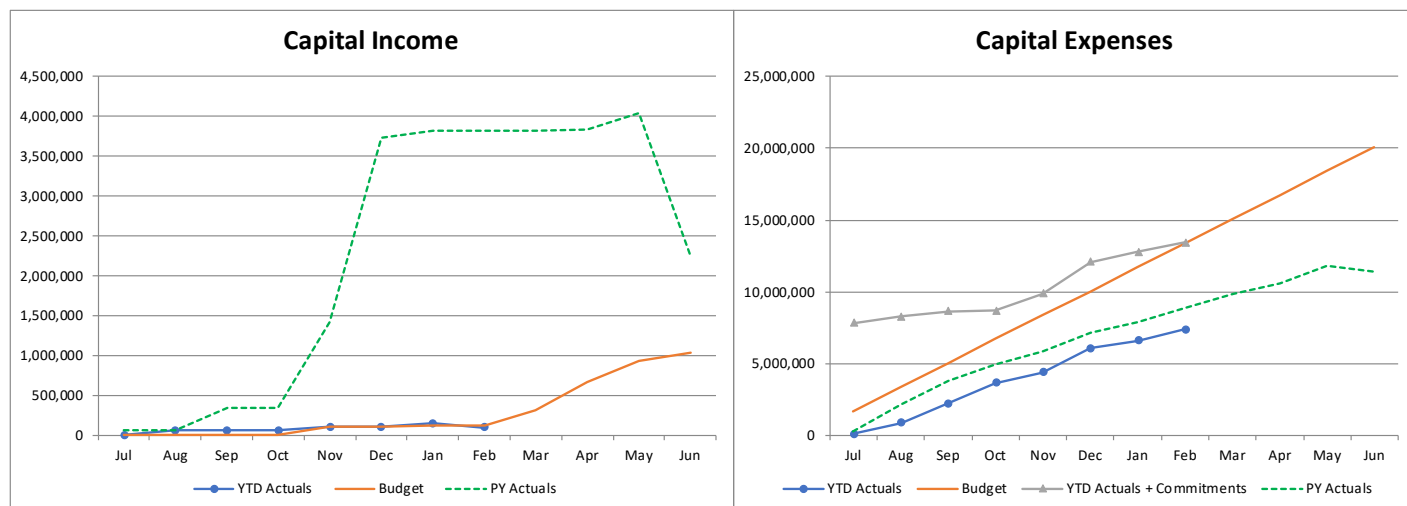
Action	Commentary
Inline Analysers for WTP	Tenders have closed, further clarifications are required to then be issued to successful tenderer.
Changes to the Clarifier Bell mouth and the 3 ML reservoir	These have been installed and works completed.
Lighting at WTP	One tender response was received.

Program Activities

- Second round of PAG review and updating of documents has occurred.

PREVIOUS MONTH'S ISSUES:

FINANCIAL REPORT:



2020/21 CAPEX Program Cost Status Summary

The following is a report of the Water and Waste Capital Projects delivery highlighting:

- Progress;
- Exceptions; and
- Deviations on the capital projects.

As at 23 February 2021, Water and Wastewater actual expenditure totals \$4,932,960 representing **35%** of annual approved budget (20-21 - \$14,031,875) and a total spend inclusive of tender commitments of \$8,568,892 which represents 61% of annual approved budget.

As at 23 February 2021, Waste Services actual expenditure totals \$2,448,876 representing **41%** of annual approved budget (20-21 - \$5,925,687), and a total spend inclusive of tender commitments of \$4,854,189 which represents **82%** of annual approved budget.

The combined Water & Waste actual expenditure totals \$7,381,835 representing **36 %** of annual approved budget (20-21 - \$20,093,605) and a total spend inclusive of tender commitments of \$13,413,081 representing **66%** of annual approved budget.

EXPENDITURE SUMMARY

Water & Wastewater	Jan 2021	Feb 2021
Actual CF plus 19/20 Program Expenditure to date	\$4,193,063	\$4,932,960
Actual Program Expenditure including Tender commitments to date	\$7,993,224	\$8,568,892
Waste		
Actual CF plus 19/20 Program Expenditure to date	\$2,405,461	\$2,448,876

Actual Program Expenditure including Tender commitments to date	\$4,768,561	\$4,854,189
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DEVIATION FROM BUDGET AND POLICY:

The above financial commentary includes all carry overs. The graph below tracks budget against actuals plus commitments.

OPERATIONAL PLAN / BUSINESS PLAN – EXCEPTION REPORTING

Strategy (i.e. C5)	Service Area	Description	Highlight/Exception, including explanation
I6	Effective and Efficient Capital Works Delivery	Implementation of effective project and contract management systems and procedures: • >90% of capital program delivered to budget	On target
		Implementation of effective project and contract management systems and procedures: • >90% all subprograms in the W&W capital program is completed on time and in budget	Delay in the delivery of some projects has been reflected in under expenditure for actuals Monitor

NEXT MONTH'S PROGRAM:

Capital Projects Update

CW Number	Project Name/ Description	Comments/Exceptions
CW182537	CORP Raw water Remediation Works	As required by DoR (Department of Resources – new DNMRE) consultation with adjoining property owners has occurred. Once this is completed then it is understood that the application will progress.
CW182563	MMT WTP Reroof Clearwater Tanks 1 & 2	PM hand over – waiting on delivery of back wash pumps prior to project actively commencing. Project completion May.
CW182564	CORP WTP clearwater tank upgrades (Capricorn St Reservoir)	Defect of overflow pipe has been rectified by contractor. Works within the network has occurred to provide improved functionality. Filling and disinfection of reservoir due to occur first week of March with commissioning the following week.
CW182580	Old Failed equipment (MBH WWTP Belt press)	MBH BFP: Shed constructed, most civils completed, installation of BFP underway, expected completion May 2021.
CW192730	CORP WTP replace old/failed equipment	CLM filters actuated valve replacements - project complete, As-builts and O&M Manuals received early December 2020, PC Certificate to be issued to Roebucks.
CW192733	CLM STP Upgrade works	Chlorine Duplication project: Minor activities completed, with building works to commence ~ 19 January 2021, estimated completed April 2021.
CW202817	DYS-SN-Enforceable Undertaking	Balance Tank: Tank erected, and majority of civil works completed, Electrical work underway. Commissioning

		planned for 1st week March, Scheduled project completion date of 8 March.
NEW CAPITAL WORKS PROJECTS (FY20/21)		
CW212857	CAR Transfer Station – retaining wall	Planning and design review investigations underway, combined with Greenhills transfer station project. Preliminary investigations and designs have been previously undertaken by GHD and Premise with 3 options given for retaining walls. Anticipate works to go out for Tender / RFQ in February 2021
CW212861	CORP Water mains replacement program	Good progression of construction of water main in East Street, soon to start in Lime Street.
CW212862	GNH Transfer Station – retaining wall	Planning and design review investigations underway, combined with Carmilla Transfer Station project. Preliminary investigations and designs have been previously undertaken by GHD and Premise with 3 options given for retaining walls. Anticipate works to go out for Tender / RFQ in March 2021
CW212863	CORP Water Valve & Hydrant Repair/Replacement	Works completed to replace 5 x hydrants and install 2 x new valves along Goonyella Rd. Planning in progress for continuation of prioritised items from 20/21 PAG list.
CW212864	CORP SN main relining program	RFQ through Local Buy BUS270 closed 22/12/2020, only 2 x submissions received. Evaluations complete and currently in the final stages of the approval process for award to the successful tenderer, expect award to successful Contractor in Feb 2021 with works to be undertaken in CLM and MMT.
CW212865	CORP STP replace old/failed equipment	\$280k transferred to CW182580 for the installation of the MBH STP sludge belt press in Q1 review 20/21. MMT WWTP WRAS pumps replaced. GLN WWTP Inlet screen modified to suit industrial waste bins. \$2.5k balance funds to remain available for replacements as required during remaining 20/21 year.
CW212866	CORP - SPS Renewal Program	MBH SPS: Construction planned for February 2021. Electrical work begins mid February 2021. NBO & GLN SPS: Contract awarded Feb 2021, construction commenced Feb 2021, expected completed June 2021, MBH SPS Upgrade ongoing.
CW212867	CORP WTP replace old/failed equipment	Project planning and development commenced with input from Operations Supervisors, draft priority lists currently under development to shortlist projects based on risk. Replacement of Carmilla WTP raw water bore pumps commenced. Replacement of actuated valves and water tower outlet valve to filter backwash planning in progress.
CW212868	CORP Telemetry upgrades to WWTPs	To commence planning.
CW212869	CORP potable water meter install parks &	Project planning and investigation into unmetered supplies in CLM in progress. Review of unmetered services completed in Clermont completed in preparation to develop project scope.

CW212870	CORP Telemetry upgrades to WTPs	Project planning meeting held early December to discuss scope preference for GLN WTP SCADA installation. Project documents to be developed and advertised for RFQ through Local Buy BUS270 in 3rd Qtr with construction to be completed in Q4.
CW212875	Caravan Dump Points - MBH & MMT	RFQ planned to be called for in February 2021 for MMT & MBH. Both locations acceptable to council.
CW212936	CORP – SN Manhole rehabilitation	RFQ advertised to selected panel of suitable contractors in January, closed 2/02/2021 in anticipation of award in late February. 4 x submissions received all well above the available budget. Investigation currently underway to source additional funding to cover shortfall. Note separate report being submitted to March council meeting for endorsement of additional funds.
CW212939	CLM STP Lighting Rectification	Evaluation complete. Recommendation report prepared for approval.
CW212940	CLM WTP Quality Response Action Works	Lighting RFQ closed 27/01/2021. To be evaluated. 3ML inlet bend & Clarifier bell mouth removal to be completed in February.
CW212941	DYS STP - optimisation of plant	Project planning underway with RFQ is being written. Expected RFQ to be issued in January and awarded late Feb.
CW212942	DYS WTP waste stream return	Project started and expected to be completed by end of April (major equipment is not expected to be delivered until early April)

DEVELOPING INITIATIVES / ISSUES:

- Recruitment for vacant Water and Sewer Planning Engineer role has occurred, to be shortlisted for interviews.

<p>Report authorised by: GARY MURPHY Director Water and Waste Date: 1 March 2021</p>

ATTACHMENTS

- Confidential Attachment 1a – Water & Waste Capital Projects February 2020 / 2021 Fin Year

PAGES 108 TO 109 HAVE INTENTIONALLY BEEN REMOVED DUE TO CONFIDENTIAL REASONS