

Drinking Water Quality Management Plan Report

Mornington Shire Council

SPID: 515

2020-2021

This report has been prepared in accordance with the Drinking Water Quality Management Plan Report Guidance Note.

Table of contents

1	Introduction	1
2	Summary of scheme/s operated.....	2
3	DWQMP implementation	2
4	Verification monitoring - water quality information and summary.....	4
5	Incidents reported to the regulator	6
6	Customer complaints	7
7	DWQMP review outcomes.....	8
8	DWQMP audit findings	9

Table of tables

Table 1 – Summary of schemes	2
Table 2 – Risk management improvement program implementation status	3
Table 3 – Drinking water quality performance - verification monitoring	4
Table 4. E. coli compliance with annual value.....	5
Table 5 – Incidents reported to the regulator.....	6
Table 6 – Example: customer complaints about water quality	7
Table 7 – DWQMP review outcomes.....	8
Table 8 – DWQMP audit findings and status.....	9

1 Introduction

This is the Drinking Water Quality Management Plan report for Mornington Shire Council for the financial year 2020-21.

Mornington Shire Council is a registered service provider with identification {SPID} number 515.

Mornington Shire Council is operating under an approved DWQMP to ensure consistent supply of safe quality drinking water to protect public health. This is done through proactive identification and minimisation of public health related risk associated with drinking water.

This DWQMP report includes:

- The activities undertaken over financial year in operating our drinking water service
- Drinking water quality summary
- Summary of our performance in implementing our approved DWQMP

This report is submitted to the Regulator to fulfil our regulatory requirement, and is also made available to our customers through our website or for inspection upon request at office

2 Summary of scheme/s operated

The Potable Water Supply for the township of Gununa is sourced from the Dithery Creek Dam and its catchment area located 2.5 kms north of the township of Gununa.

The Dithery Creek Dam has a total storage capacity of 846 ML, the Dam's water (RAW water) is pumped from the Dam to the Water Treatment Plant (WTP) where pH correction if required and disinfection is undertaken via Sodium Hypochlorite - liquid chlorination system, before the water is stored into 2 x 1.7 ML (Clear-water) Reservoirs then supplied to the towns reticulation network.

Table 1 – Summary of schemes

	<i>Water Source</i>	<i>Treatment processes</i>	<i>Treatment capacity</i>	<i>Towns supplied</i>
Gununa	Dithery Dam	Chlorination & pH correction	1 ML/Day	Gununa

3 DWQMP implementation

The actions undertaken to implement the DWQMP are summarised below.

- Daily/ Weekly operation and maintenance schedule maintained for all water and wastewater operations staff. These schedule include water testing, mains flushing, chlorination and network monitoring
- Formal plumbing training continues for staff through plumbing apprenticeship which is supported by one-on-one supervision and mentoring
- Daily water testing of chlorine, PH and turbidity performed on-site by water and wastewater operations staff. This testing also includes weekly monitoring of E.coli
- Fortnightly water testing sent to independent external laboratory incorporating E.coli, total coliforms and heterotrophic plate counts.
- Annual scheduled maintenance and review of all water and wastewater telemetry performed under service agreement
- Review and update of DWQMP in progress awaiting formal review and adoption
- Identification of training requirements for water and wastewater operations staff

The actions undertaken to implement the risk management improvement program are discussed in Table 2.

Table 2 – Risk management improvement program implementation status

Scheme name	Ref	Component	Improvement actions	Target date	Actions taken to date	Status and revised target date	Responsible Officer / Position
Gununa	WT1	Whole of Scheme	Operators to be trained and hold an appropriate Water Operator's Certificate <ul style="list-style-type: none"> - Identify staff required for water - Provide appropriate 	2022-23	Investigate available training and subsidies Identify staff structure requirements, including option of dedicated water officers	In Progress Training Plans to be developed and appropriate training investigated Revised Target: 31 December 2022	Human Resource Manager
Gununa	WT2	Whole of Scheme	Working on Record Keeping Procedures <ul style="list-style-type: none"> - Operators to undertake training in record keeping procedures 	2022	Continued on-the-job training provided to water testing staff	Continuing Formal Training to be identified and provided. Revised Target: 31 December 2022	Group Manager/ Works Manager
Gununa	WT3	Treatment	Training in SCADA for adjustments and alarms	2022	Continued on-the-job training (informal) provided to trade assistants and apprentices.	Continuing Formal Training to be identified and provided as required Revised Target: 31 December 2022	Group Manager/ Works Manager

Scheme name	Ref	Component	Improvement actions	Target date	Actions taken to date	Status and revised target date	Responsible Officer / Position
Gununa	WT4	Whole of Scheme	Developed formal procedures for all other aspects of water operations	2022	Nil	Planned to Commence Formal update to commence Revised Target: 31 December 2022	Group Manager/ Works Manager

4 Verification monitoring - water quality information and summary

This section discusses the compliance with the water quality criteria.

Table 3 – Drinking water quality performance - verification monitoring

Scheme name	Parameter	No. of samples required to be collected (as per the approved DWQMP)	No. of samples actually collected and tested	Water quality criteria (i.e ADWG health guideline value)	No. of non compliant samples	Comments
Gununa	E.coli	212	212	<cfu/100ml	0	Results represent sampling performed on treated water sites per the DWQMP in accordance with frequency required by ADWG
Gununa	Chlorine	2385	2151	02-4.5 mg/l	0	
Gununa	pH	2385	2151	5.7-7.4	0	
Gununa	Turbidity	2385	2151	1.2-<1	0	

Table 4. E. coli compliance with annual value

Drinking water scheme: Gununa

Year	2020 – 2021											
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No. of samples collected *	16	20	16	16	20	16	20	16	16	16	20	20
No. of samples collected in which E. coli is detected (i.e. a failure)	0	0	0	0	0	0	0	0	0	0	0	0
No. of samples collected in previous 12 month period	196	200	200	200	204	208	208	208	208	204	208	212
No. of failures for previous 12 month period	0	0	0	0	0	0	0	0	0	0	0	0
% of samples that comply	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Compliance with 98% annual value	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

* Represents sampling of sites within the reticulation system (i.e treated water)

5 Incidents reported to the regulator

The incidents reported to the regulator and management actions undertaken over the financial year are provided in this section.

Table 5 – Incidents reported to the regulator

Incident date	Scheme / location	Parameter / issue	Preventive actions
NONE	NONE	NONE	NONE

6 Customer complaints

This section discusses details of any complaints received about the drinking water service

Refer to section 2.3.6 in the Guidance Note.

Table 6 – Example: customer complaints about water quality

Scheme	Health concern	Dirty water	Taste and odour	Other
Gununa	0	0	0	0
Total				

Mornington Shire Council investigates each complaint relating to alleged illness from our water quality, typically by testing the customers tap and closest reticulation sample point for the presence of E coli. During the reporting period there were 0/no confirmed cases of illness arising from the water supply system.

7 DWQMP review outcomes

No review was conducted during the reporting period 01/07/2020 to 30/06/2021

A summary of the outcomes of the review and how issues/changes raised in the review, were actioned is provided in this section.

Table 7 – DWQMP review outcomes

Review Date: 2019

Review component	Findings	Outcomes	Status of actions	Responsible Officer / Position
Service description	No changes	N/A	N/A	-
Details of infrastructure				
Water quality and catchment characteristics	No changes in catchment	N/A	N/A	-
Risk assessment	Updating	Updating	Schedule revised	Group Manager/ Works Manager
Operations and maintenance procedures	Record keeping needs updating	Maintenance schedule updating	Maintenance schedule has been revised. Update of manual/s to be performed	Group Manager/ Works Manager/ Water & Sewerage Officers
Management of incidents and emergencies	No changes	N/A	N/A	
Risk management improvement program	Implementing improvements	Risk management improvement to be revised	A workshop review of improvements to be completed and results to be updated to risk management system	Group Manager/ Works Manager
Service wide information management	No changes	N/A	N/A	

Review component	Findings	Outcomes	Status of actions	Responsible Officer / Position
Operational monitoring	Record keeping update	Operational monitoring	On-going	Water & Sewerage Officers/ Works Manager
Verification monitoring	As above	Program to be advised	Operational monitoring program in progress (ongoing)	Water & Sewerage Officers/ Works Manager

8 DWQMP audit findings

The audit findings and any recommendations and/or opportunities for improvement (OFI), including how these were actioned are discussed below.

No Audit was conducted during the reporting period 01/07/2020 to 30/06/2021

The actions undertaken to address the audit recommendations are outlined in Table 8.

Table 8 – DWQMP audit findings and status

Item	Recommendation or OFI	Action	Status of actions	Responsible Officer / Position
Raw water turbidity	Trail measure to reduce silt run off	A geotextile battle put in place	Trial still in place	Group Manager/ Works Manager
Verification of monitoring	Improve record keeping process	MSC offices preparing annual reports to ensure information is provided in the reports	Ongoing training and have administrative support	Group Manager/ Works Manager