

Water Quality Summary - July 2023

Hunter Water provides safe and reliable drinking water to over half a million customers in the Lower Hunter. The drinking water we supply is routinely tested throughout our water supply systems.

Whole of Hunter Water Distribution System

Drinking water results for the distribution system are based on samples representative of water supplied to customer's taps. Distribution system results for microbiological and key physical/chemical parameters are summarised below.

Whole of Hunter Water Distribution System - key health analytes

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Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard	
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		99.94%	Yes	
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard	
Fluoride	mg/L	1.5		0.99	1.08	Yes	
Chlorine	mg/L	5.0		0.96	1.70	Yes	
Copper	mg/L	2.0	95th percentile of test results less than respective ADWG health guideline	0.007	0.014	Yes	
Lead	mg/L	0.01	value	0.000	0.001	Yes	
Manganese	mg/L	0.5		0.014	0.010	Yes	
Trihalomethanes	mg/L	0.25		0.069	0.139	Yes	

Whole of Hunter Water Distribution System - PFOS, PFHxS & PFOA

Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performance standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than respective ADWG health guideline	<0.004	0.004	Yes
PFOA	ug/L	0.56	value	<0.002	<0.002	Yes

Whole of Hunter Water Distribution System - key aesthetic analytes

Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3		0.114	0.034	Yes
Aluminium	mg/L	0.2	Average of test results less than	0.143	0.052	Yes
Copper	mg/L	1.0		0.007	0.006	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline	0.004	0.003	Yes
Manganese	mg/L	0.1	value	0.014	0.005	Yes
Turbidity	NTU	5.0		1.2	0.4	Yes
Colour-True	HU	15.0		5	5	Yes
рН	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.52	7.59	Yes

Brief explanation of key parameters:	Key Physical, Chemical and Microbiological Parameters	
A 95th percentile is a statistical method to evaluate the long-term performance standard for Health-related analytes. Additional information is available in Section 10.3.2 and Information Sheet 3.3 of the Drinking Water Guidelines 2011 (ADWG).		
For more detail please refer:	Australian Drinking Water Guidelines 2011	
Map showing water quality zones:	Water Quality Zones at Hunter Water	

Water Quality Zones						
Anna Bay and Nelson Bay Zone - key healt	th analytes					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performand standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performand standard
Fluoride	mg/L	1.5		1.03	1.10	Yes
Chlorine	mg/L	5.0		1.23	2.30	Yes
Copper	mg/L	2.0	95th percentile of test results less than respective ADWG health guideline	0.018	0.031	Yes
_ead	mg/L	0.01	value	0.000	0.001	Yes
Manganese	mg/L	0.5		0.002	0.009	Yes
Trihalomethanes Anna Bay and Nelson Bay Zone - PFOS, PF	mg/L	0.25		0.022	0.083	Yes
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performan standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Anna Bay and Nelson Bay Zone - key aesth	hetic analytes				+	
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performand standard
Iron	mg/L	0.3		0.019	0.033	Yes
Aluminium	mg/L	0.3		0.019	0.033	Yes
Copper	mg/L	1.0	Average of test results less than	0.018	0.008	Yes
Zinc	mg/L	3.0	Average of test results less than respective ADWG aesthetic guideline	0.004	0.003	Yes
Manganese	mg/L	0.1	value	0.002	0.003	Yes
Turbidity	NTU	5.0		0.7	0.4	Yes
Colour-True	HU	15.0		5	5	Yes
Н	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.46	7.47	Yes
Chichester Zone - key health analytes						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment		% of E. coli results < 1 over	
		, i	over previous 12 months)		the last 12	Met performand standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1			
	MPN/100mL Units of measure	Should not be		Average for Month	the last 12 months	standard
Analyte		Should not be detected in 100mL	At least 98% of test results <1 Performance standard (assessment		the last 12 months 100.00% 95th Percentile over the last 12	standard Yes Met performan
Analyte Fluoride	Units of measure	Should not be detected in 100mL ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months)	Month	the last 12 months 100.00% 95th Percentile over the last 12 months	Yes Met performand standard
Analyte Fluoride Chlorine Copper	Units of measure mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0	At least 98% of test results <1 Performance standard (assessment	0.95 1.06 0.004	the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007	Yes Met performand standard Yes
Analyte Fluoride Chlorine Copper Lead	Units of measure mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than	0.95 1.06 0.004 0.000	## 100.00% 95th Percentile over the last 12 months 1.00	Yes Met performane standard Yes Yes Yes Yes Yes
Analyte Fluoride Chlorine Copper Lead Manganese	Units of measure mg/L mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline	0.95 1.06 0.004 0.000 0.039	the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004	Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes	Units of measure mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline	0.95 1.06 0.004 0.000	## 100.00% 95th Percentile over the last 12 months 1.00	Yes Met performane standard Yes Yes Yes Yes Yes
Analyte Chloride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA	Units of measure mg/L mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment	0.95 1.06 0.004 0.000 0.039 0.063	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098	Met performan standard Yes Yes Yes Yes Yes Yes Yes Yes
Fluoride Chlorine Copper e.ead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA	Units of measure mg/L mg/L mg/L mg/L mg/L Mg/L Mg/L Mg/L Mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months)	0.95 1.06 0.004 0.000 0.039 0.063	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye
Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte	Units of measure mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA	Units of measure mg/L mg/L mg/L mg/L mg/L Mg/L Mg/L Mg/L Mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months	Met performant standard Yes Yes Yes Yes Yes Yes Met performant standard
Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS	Units of measure mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	standard Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes	Units of measure mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chloride Chlorine Copper Lead Manganese Firihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte	Units of measure mg/L mg/L mg/L mg/L mg/L du/L Units of measure ug/L ug/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004 <40.002	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002	Met performant standard Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte ron	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L ug/L Units of measure Ug/L Ug/L Units of measure	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment	Month 0.95 1.06 0.004 0.004 0.000 0.039 0.063 Average for Month <0.004 <0.002 Average for Month	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002	Met performan standard Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chloride Chlorine Copper Lead Manganese Frihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte ron Aluminium Copper	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L du/L Units of measure ug/L ug/L Units of measure	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.7 0.56 ADWG aesthetic guideline value 0.3	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004 <0.002 Average for Month 0.329	## last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046	Met performant standard Yes Yes Yes Yes Yes Yes Yes Yes Met performant standard Yes Yes Yes
Analyte Chlorine Copper Lead Manganese Frihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte ron Aluminium Copper	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Mg/L Units of measure ug/L ug/L Units of measure mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG seathetic guideline value 0.3 0.2 1.0 3.0	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline value	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month <0.004 <0.002 Average for Month 0.329 0.580 0.004 0.002	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.081 0.004 0.002	Met performan standard Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Frihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PPOA Chichester Zone - key aesthetic analytes Analyte ron Aluminium Copper Zinc Manganese	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Mg/L Units of measure Ug/L Ug/L Ug/L Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG sesthetic guideline value 0.3 0.2 1.0 3.0 0.1	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than	Month 0.95 1.06 0.004 0.000 0.039 0.63 Average for Month <0.004 <0.002 Average for Month 0.329 0.580 0.004 0.002 0.039 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.002 0.003 0.003 0.003 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.004 0.002 0	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.081 0.004 0.002 0.005	standard Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium Copper Zinc Manganese Turbidity	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Mg/L Units of measure Units of measure ug/L ug/L Units of measure NG/L mg/L mg/L	ADWG health guideline value ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.7 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0 3.0 0.1 5.0	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline value	Month 0.95 1.06 0.004 0.000 0.039 0.063 Average for Month 0.329 0.580 0.004 0.002 0.039 3.4	## last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.081 0.004 0.0002 0.0005 0.5	standard Yes Met performant standard Yes Yes Yes Yes Yes Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trinalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Iron Aluminium Copper Zinc Manganese Turbidity Colour-True	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Mg/L Units of measure Ug/L Ug/L Ug/L Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Should not be detected in 100mL ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG sesthetic guideline value 0.3 0.2 1.0 3.0 0.1	At least 98% of test results <1 Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline value	Month 0.95 1.06 0.004 0.000 0.039 0.63 Average for Month <0.004 <0.002 Average for Month 0.329 0.580 0.004 0.002 0.039 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.002 0.003 0.003 0.003 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.003 0.003 0.004 0.002 0.004 0.002 0	## In the last 12 months 100.00% 95th Percentile over the last 12 months 1.00 1.41 0.007 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.081 0.004 0.002 0.005	standard Yes Met performand standard Yes Yes Yes Yes Yes Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye

Grahamstown Zone - key health analytes						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		99.89%	Yes
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5		1.00	1.00	Yes
Chlorine	mg/L	5.0		0.83	1.45	Yes
Copper	mg/L	2.0	95th percentile of test results less than	0.004	0.016	Yes
Lead	mg/L	0.01	respective ADWG health guideline value	0.000	0.001	Yes
	mg/L	0.5		0.005	0.012	Yes
	mg/L	0.25		0.084	0.176	Yes
Grahamstown Zone - PFOS, PFHxS & PFOA						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performanc standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Grahamstown Zone - key aesthetic analytes			Talao			
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3		0.033	0.026	Yes
	mg/L	0.2		0.033	0.053	Yes
	mg/L	1.0	Average of test results less than	0.004	0.005	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline	0.004	0.004	Yes
Manganese	mg/L	0.1	value	0.005	0.005	Yes
Turbidity	NTU	5.0		0.4	0.3	Yes
Colour-True	HU	15.0		5	5	Yes
рН	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.46	7.54	Yes
Gresford Zone - key health analytes						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Chlorine	mg/L	5.0	95th percentile of test results less than respective ADWG health guideline value	1.22	1.33	Yes
Gresford Zone - PFOS, PFHxS & PFOA						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month #	Maximum detection over the last 12 months	Met performance standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline	<0.004	<0.004	Yes
Gresford Zone - key aesthetic analytes		0.00	value	~0.00Z	~0.00Z	169
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Turbidity	NTU	5.0	Average of test results less than respective ADWG aesthetic guideline value	0.3	0.2	Yes
рН	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	8.48	8.46	Yes

Lemon Tree Passage Zone - key healtl	n analytes					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5		0.95	1.00	Yes
Chlorine	mg/L	5.0		1.01	1.86	Yes
Copper	mg/L	2.0	95th percentile of test results less than respective ADWG health guideline	0.006	0.010	Yes
Lead	mg/L	0.01	value	0.000	0.001	Yes
Manganese	mg/L	0.5		0.004	0.011	Yes
Trihalomethanes	mg/L	0.25		0.086	0.135	Yes
Lemon Tree Passage Zone - PFOS, PF	HxS & PFOA					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performance standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Lemon Tree Passage Zone - key aesth	etic analytes					
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3		0.029	0.045	Yes
Aluminium	mg/L	0.2		0.032	0.039	Yes
Copper	mg/L	1.0	Average of test results less than	0.006	0.005	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline	0.004	0.003	Yes
			value			

PFOS, PFHxS and PFOA Results for Clear Water Tanks - July 2023

mg/L

NTU

HU

pH units

Clear water tanks (CWTs) are the final point at each water treatment plant before water enters the distribution system for delivery to customers. Maximum drinking water results in the CWTs of the water treatment plants monitored during the month are summarised below.

0.1

5.0

6.5-9.2

0.004

0.2

7.46

Average of test results between 6.5-9.2 pH units 0.006

0.3

7.53

Yes

Yes

Yes

Analyte	Units of measure	ADWG health guideline value	Grahamstown CWT
PFOS + PFHxS	ug/L	0.07	<0.004
PFOA	ug/L	0.56	<0.002

PFOS, PFHxS and PFOA Results for Raw Waters - July 2023

Raw water monitoring points are representative of water received at the water treatment plants, prior to any treatment occurring. Maximum raw water results of the water treatment plants monitored during the month are summarised below.

Analyte	Units of measure	ADWG health guideline value	Grahamstown Raw - East Main ^	Grahamstown Raw - West Main	Lemon Tree Passage WTP - Raw Water
PFOS + PFHxS	ug/L	0.07	<0.004	<0.004	<0.004
PFOA	ug/L	0.56	<0.002	<0.002	<0.002

Notes

Manganese

Colour-True

Turbidity

На

^ Water sourced from the Tomago Borefield -when operational -is delivered to Grahamstown WTP via the East'Main. When the Tomago Borefield is not being used as part of the drinking water supply mix for the Lower Hunter, the East'and West'monitoring points are both representative of water sourced from Grahamstown Dam.

One sample is collected per month in the Gresford Zone

^{*} Gresford WTP can be supplied from either the Allyn or Paterson Rivers. The plant was supplied from the Paterson River for the month.