

### Water Quality Summary - February 2024

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

Analyte	Units of measure	ADWG health guideline value			% 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		0.90	1.00	Yes	
Chlorine	mg/L	5.0		0.90	1.62	Yes	
Copper	mg/L	2.0	95th percentile of test results less than	0.007	0.013	Yes	
Lead	mg/L	0.01	respective ADWG health guideline value	0.000	0.001	Yes	
Manganese	mg/L	0.5		0.006	0.011	Yes	
Trihalomethanes	mg/L	0.25		0.112	0.146	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	<0.004	0.007	Yes
PFOA	ug/L	0.56	respective ADWG health guideline 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		0.026	0.035	Yes
Aluminium	mg/L	0.2		0.041	0.051	Yes
Copper	mg/L	1.0	Average of test results less than	0.007	0.006	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline	0.003	0.003	Yes
Manganese	mg/L	0.1	value	0.006	0.006	Yes
Turbidity	NTU	5.0		0.2	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 pH units		7.61	7.58	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 Drinking Water Guidelines 2011 (ADWG).	-related analytes. Additional information is available in Section 10.3.2 and Information Sheet 3.3 of the Australian
For more detail please refer:	Australian Drinking Water Guidelines 2011
Map showing water quality zones:	Water Quality Zones at Hunter Water

Anna Bay and Nelson Bay Zone - key h	nealth 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 Chlorine	mg/L	1.5		0.91	1.00	Yes
Copper	mg/L	5.0	Of the constant of the terror the least the constant	0.006	0.011	Yes Yes
Lead	mg/L	0.01	95th percentile of test results less than respective ADWG health guideline value	0.000	0.000	Yes
Manganese	mg/L	0.5		0.003	0.011	Yes
Trihalomethanes	mg/L	0.25	1	0.051	0.103	Yes
Anna Bay and Nelson Bay Zone - PFOS	S, 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 performand standard
PFOS + PFHxS	ug/L	0.07	100% of toot regults less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	100% of test results less than respective ADWG health guideline value	<0.002	<0.002	Yes
Anna Bay and Nelson Bay Zone - key a		5.00	<u> </u>			
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
lee-						
Iron Aluminium	mg/L mg/L	0.3		0.024	0.031	Yes
Copper	mg/L	1.0		0.042	0.041	Yes Yes
Zinc	mg/L	3.0	Average of test results less than respective ADWG aesthetic guideline	0.000	0.007	Yes
Manganese	mg/L	0.1	value	0.003	0.003	Yes
Turbidity	NTU	5.0	1	0.2	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	7.48	7.47	Yes
Chichaeten Zama Laurh 199						
Unichester Zone - key health analytes						
Chichester Zone - key health analytes					% of E. coli	
Chichester Zone - key health analytes	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
	Units of measure  MPN/100mL				results < 1 over the last 12	
Analyte		guideline value Should not be	over previous 12 months)	Average for Month	results < 1 over the last 12 months	standard Yes
Analyte E. coli	MPN/100mL	Should not be detected in 100mL	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment		results < 1 over the last 12 months  99.79%  95th Percentile over the last 12	standard  Yes  Met performane
Analyte  E. coli  Analyte  Fluoride	MPN/100mL  Units of measure	guideline value  Should not be detected in 100mL  ADWG health guideline value	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment	Month	results < 1 over the last 12 months 99.79% 95th Percentile over the last 12 months	Yes  Met performany standard
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper	MPN/100mL  Units of measure  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment over previous 12 months)  95th percentile of test results less than	0.96 0.78 0.011	results < 1 over the last 12 months 99.79% 95th Percentile over the last 12 months 1.00 1.39 0.016	Yes  Met performan standard  Yes  Yes  Yes  Yes
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment over previous 12 months)	0.96 0.78 0.011 0.000	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000	Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01  0.5	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment over previous 12 months)  95th percentile of test results less than	0.96 0.78 0.011 0.000 0.005	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008	Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment over previous 12 months)  95th percentile of test results less than	0.96 0.78 0.011 0.000	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000	Yes  Met performane standard  Yes  Yes  Yes  Yes  Yes
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01  0.5	over previous 12 months)  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	0.96 0.78 0.011 0.000 0.005	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111	Yes  Met performant standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01  0.5	over previous 12 months)  At least 98% of test results <1  Performance standard (assessment over previous 12 months)  95th percentile of test results less than	0.96 0.78 0.011 0.000 0.005	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008	Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  Should not be detected in 100mL  ADWG health guideline value  1.5  5.0  2.0  0.01  0.5  0.25	over previous 12 months)  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	0.96 0.78 0.011 0.000 0.005 0.109	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111	standard  Yes  Met performann standard  Yes Yes Yes Yes Yes Yes Yes Yes Yes
Analyte  E. coli  Analyte  Fluoride Chlorine Copper Lead Manganese Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC  Analyte  PFOS + PFHxS	MPN/100mL  Units of measure  mg/L mg/L mg/L mg/L mg/L mg/L mg/L og/L OA	guideline value  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	over previous 12 months)  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)	0.96 0.78 0.011 0.000 0.005 0.109  Average for Month	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months	Yes  Met performand standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride Chlorine Copper Lead Manganese Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFO  Analyte  PFOS + PFHxS  PFOA	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  d  Units of measure  ug/L  ug/L	guideline value  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	over previous 12 months)  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	0.96 0.78 0.011 0.000 0.005 0.109  Average for Month	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004	standard  Yes  Met performand standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride Chlorine Copper Lead	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  d  Units of measure  ug/L  ug/L	guideline value  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	over previous 12 months)  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	0.96 0.78 0.011 0.000 0.005 0.109  Average for Month	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004	standard  Yes  Met performand standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride Chlorine Copper Lead Manganese Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFO  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Analyte	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  ug/L  ug/L  ug/L  ug/L  ug/L	guideline value  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	over previous 12 months)  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)	Month	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  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  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Analyte	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  du/L  Units of measure  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  mg/L	guideline value  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  0.3	over previous 12 months)  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)	0.96 0.78 0.011 0.000 0.005 0.109  Average for Month <0.004 <0.002	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004  <0.002	standard  Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyt  Analyte  Iron  Aluminium	MPN/100mL  Units of measure  mg/L mg/L mg/L mg/L mg/L mg/L og/L d ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  tes	guideline value  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  0.3 0.2	over previous 12 months)  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)	Month   0.96   0.78   0.011   0.000   0.005   0.109     Average for Month   <0.004   <0.002     Average for Month   0.025   0.046	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months < 0.004  <0.002	standard  Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Iron  Aluminium  Copper	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  duj/L  ug/L	guideline value  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  0.3  0.2  1.0	over previous 12 months)  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	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004  <0.002	standard  Yes  Met performanstandard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Met performanstandard  Yes  Yes  Yes  Yes  Yes
Analyte  E coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFO  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Iron  Aluminium  Copper  Zinc	MPN/100mL  Units of measure  mg/L mg/L mg/L mg/L mg/L mg/L og/L d ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  tes	guideline value  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  0.3 0.2	over previous 12 months)  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)	Month   0.96   0.78   0.011   0.000   0.005   0.109     Average for Month   <0.004   <0.002     Average for Month   0.025   0.046	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months < 0.004  <0.002	standard  Yes  Met performan standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFO  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Analyte  Iron  Aluminium  Copper  Zinc  Manganese	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  og/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	guideline value  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  0.3 0.2 1.0 3.0	over previous 12 months)  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	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004  <0.002  12 month average result  0.045  0.087  0.007	Met performan standard  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Analyte  E. coli  Analyte  Fluoride  Chlorine  Copper  Lead  Manganese  Trihalomethanes  Chichester Zone - PFOS, PFHxS & PFC  Analyte  PFOS + PFHxS  PFOA  Chichester Zone - key aesthetic analyte  Analyte	MPN/100mL  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L  OA  Units of measure  ug/L  ug/L  ug/L  tes  Units of measure  mg/L  mg/L	guideline value  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 health guideline value  0.07 0.56	over previous 12 months)  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	results < 1 over the last 12 months  99.79%  95th Percentile over the last 12 months  1.00  1.39  0.016  0.000  0.008  0.111  Maximum detection over the last 12 months  <0.004  <0.002  12 month average result  0.045  0.087  0.007  0.002  0.006	standard  Yes  Met performant standard  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye

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		99.89%	Yes
λnalyte	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		0.97	1.00	Yes
Chlorine	mg/L	5.0		0.89	1.46	Yes
Copper	mg/L	2.0	95th percentile of test results less than	0.006	0.014	Yes
ead	mg/L	0.01	respective ADWG health guideline value	0.001	0.001	Yes
Manganese	mg/L	0.5		0.008	0.014	Yes
rihalomethanes	mg/L	0.25		0.125	0.157	Yes
Grahamstown Zone - PFOS, PFHxS & PFO						
ınalyte	Units of measure	ADWG health	Performance standard (assessment	Average for	Maximum detection over the	Met performar
Maryte	Oints of incusure	guideline value	over previous 12 months)	Month	last 12 months	standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	0.007	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Grahamstown Zone - key aesthetic analyte	es					
nalyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performan standard
ron	mg/L	0.3		0.028	0.030	Yes
Juminium	mg/L	0.2		0.050	0.050	Yes
copper	mg/L	1.0		0.006	0.005	Yes
inc	mg/L	3.0	Average of test results less than respective ADWG aesthetic guideline	0.004	0.004	Yes
langanese	mg/L	0.1	value	0.004	0.006	Yes
urbidity	NTU	5.0		0.3	0.3	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	7.60	7.56	Yes
Gresford Zone - key health analytes		I				
					% of E. coli	
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		results < 1 over the last 12 months	Met performar standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
ànalyte	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 performan standard
Chlorine	mg/L	5.0	95th percentile of test results less than respective ADWG health guideline value	0.67	1.41	Yes
Gresford Zone - PFOS, PFHxS & PFOA						
ınalyte	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 performar 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
Gresford Zone - key aesthetic analytes						
nalyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performar standard
urbidity	NTU	5.0	Average of test results less than respective ADWG aesthetic guideline value	0.1	0.1	Yes

Lemon Tree Passage Zone - key health analy	ytes					
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		0.91	1.00	Yes
Chlorine	mg/L	5.0		1.30	1.71	Yes
Copper	mg/L	2.0	95th percentile of test results less than	0.005	0.010	Yes
Lead	mg/L	0.01	respective ADWG health guideline value	0.000	0.001	Yes
Manganese	mg/L	0.5		0.003	0.011	Yes
Trihalomethanes	mg/L	0.25		0.127	0.138	Yes
Lemon Tree Passage Zone - PFOS, PFHxS &	k PFOA					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the	Met performance standard
		The state of the s		WOILLI	last 12 months	Staridard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	last 12 months <0.004	Yes
PFOS + PFHxS PFOA	ug/L ug/L	0.07	100% of test results less than respective ADWG health guideline value			
	ug/L			<0.004	<0.004	Yes
PFOA	ug/L			<0.004	<0.004	Yes
PFOA Lemon Tree Passage Zone - key aesthetic ar	ug/L nalytes	0.56 ADWG aesthetic	respective ADWG health guideline value	<0.004 <0.002	<0.004 <0.002	Yes Yes Met performance
PFOA  Lemon Tree Passage Zone - key aesthetic al  Analyte	ug/L nalytes Units of measure	0.56  ADWG aesthetic guideline value	respective ADWG health guideline value	<0.004 <0.002 Average for Month	<0.004 <0.002 12 month average result	Yes Yes  Met performance standard
PFOA  Lemon Tree Passage Zone - key aesthetic al  Analyte	ug/L nalytes Units of measure mg/L	0.56  ADWG aesthetic guideline value  0.3	Performance standard (assessment over previous 12 months)	<0.004 <0.002 Average for Month 0.027	<0.004 <0.002 12 month average result 0.043	Yes Yes  Met performance standard  Yes
PFOA  Lemon Tree Passage Zone - key aesthetic al  Analyte  Iron  Aluminium	ug/L  Units of measure  mg/L  mg/L	ADWG aesthetic guideline value  0.3  0.2	Performance standard (assessment over previous 12 months)  Average of test results less than respective ADWG aesthetic guideline	<0.004 <0.002 Average for Month 0.027 0.031	<0.004 <0.002 12 month average result 0.043 0.035	Yes Yes  Met performance standard  Yes Yes
PFOA  Lemon Tree Passage Zone - key aesthetic au  Analyte  Iron  Aluminium  Copper	ug/L  Units of measure  mg/L  mg/L  mg/L  mg/L	ADWG aesthetic guideline value  0.3  0.2  1.0	Performance standard (assessment over previous 12 months)  Average of test results less than	<0.004 <0.002  Average for Month  0.027 0.031 0.005	<0.004 <0.002 12 month average result 0.043 0.035 0.005	Yes Yes  Met performance standard  Yes Yes Yes
PFOA  Lemon Tree Passage Zone - key aesthetic al  Analyte  Iron  Aluminium  Copper  Zinc	ug/L  nalytes  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L	ADWG aesthetic guideline value  0.3  0.2  1.0  3.0	Performance standard (assessment over previous 12 months)  Average of test results less than respective ADWG aesthetic guideline	<0.004 <0.002 Average for Month  0.027  0.031  0.005  0.004	<0.004 <0.002  12 month average result  0.043 0.035 0.005 0.003	Yes Yes  Met performance standard  Yes Yes Yes Yes
PFOA  Lemon Tree Passage Zone - key aesthetic al  Analyte  Iron  Aluminium  Copper  Zinc  Manganese	ug/L  nalytes  Units of measure  mg/L  mg/L  mg/L  mg/L  mg/L  mg/L	0.56  ADWG aesthetic guideline value  0.3  0.2  1.0  3.0  0.1	Performance standard (assessment over previous 12 months)  Average of test results less than respective ADWG aesthetic guideline	<0.004 <0.002 Average for Month 0.027 0.031 0.005 0.004 0.003	<0.004 <0.002  12 month average result  0.043 0.035 0.005 0.003 0.011	Yes Yes  Met performance standard  Yes Yes Yes Yes Yes

# PFOS, PFHxS and PFOA Results for Clear Water Tanks - February 2024

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.

6.5-9.2

Average of test results between 6.5-9.2 pH units

7.52

Yes

7.50

Analyte	Units of measure	ADWG health guideline value	Anna Bay CWT	Grahamstown CWT	Gresford CWT	Lemon Tree Passage CWT	Nelson Bay CWT
PFOS + PFHxS	ug/L	0.07	<0.004	0.004	<0.004	<0.004	<0.004
PFOA	ua/l	0.56	< 0.002	<0.002	< 0.002	< 0.002	< 0.002

# PFOS, PFHxS and PFOA Results for Raw Waters - February 2024

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	Anna Bay WTP - Raw Water	Dungog TW Raw	Grahamstown Raw - East Main ^	Grahamstown Raw - West Main		Gresford (Paterson River) WTP *	Lemon Tree Passage WTP - Raw Water	Nelson Bay WTP - Raw Water
PFOS + PFHxS	ug/L	0.07	<0.004	<0.004	0.006	<0.004	<0.004	<0.004	<0.004	<0.004
PFOA	ug/L	0.56	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002

<sup>^</sup> 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.

<sup>\*</sup> Gresford WTP can be supplied from either the Allyn or Paterson Rivers. The plant was supplied from the Paterson River for the month.

<sup>#</sup> One sample is collected per month in the Gresford Zone