



Drinking Water Quality Summary - November 2015

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. Results are based on samples representative of water supplied to customers' taps. Results for microbiological and key physical/chemical parameters are summarised below:

Whole of Hunter Water

Whole of Hunter Water - 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
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.16	1.02	Yes
Chlorine	mg/L	5		0.77	1.43	Yes
Copper	mg/L	2		0.004	0.020	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.004	0.014	Yes
Trihalomethanes	mg/L	0.25		0.088	0.150	Yes

Whole of Hunter Water - 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	Average of test results less than respective ADWG aesthetic guideline value	0.025	0.027	Yes
Aluminium	mg/L	0.2		0.058	0.052	Yes
Copper	mg/L	1		0.004	0.006	Yes
Zinc	mg/L	3		0.004	0.005	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.63	7.57	Yes

Brief explanation of key parameters:

or for more detail see:

Map showing water quality zones:

[Key Physical, Chemical and Microbiological Parameters](#)

[Australian Drinking Water Guidelines 2011](#)

[Water Quality Zones at Hunter Water](#)

Water Quality Zones

Chichester 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
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.16	0.71	Yes
Chlorine	mg/L	5		0.51	1.49	Yes
Copper	mg/L	2		0.004	0.005	Yes
Lead	mg/L	0.01		0.001	0.001	Yes
Manganese	mg/L	0.5		0.003	0.015	Yes
Trihalomethanes	mg/L	0.25		0.096	0.134	Yes

Chichester Zone – 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	Average of test results less than respective ADWG aesthetic guideline value	0.022	0.026	Yes
Aluminium	mg/L	0.2		0.054	0.054	Yes
Copper	mg/L	1		0.004	0.003	Yes
Zinc	mg/L	3		0.005	0.004	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.69	7.63	Yes

Grahamstown Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.34	1.03	Yes
Chlorine	mg/L	5		0.87	1.49	Yes
Copper	mg/L	2		0.004	0.007	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.005	0.014	Yes
Trihalomethanes	mg/L	0.25		0.101	0.175	Yes

Grahamstown Zone – 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	Average of test results less than respective ADWG aesthetic guideline value	0.025	0.028	Yes
Aluminium	mg/L	0.2		0.089	0.068	Yes
Copper	mg/L	1		0.004	0.005	Yes
Zinc	mg/L	3		0.003	0.004	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.56	7.54	Yes

Water Quality Zones

Lemon Tree Passage Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.10	1.04	Yes
Chlorine	mg/L	5		0.76	0.98	Yes
Copper	mg/L	2		0.005	0.010	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.002	0.008	Yes
Trihalomethanes	mg/L	0.25		0.093	0.125	Yes

Lemon Tree Passage Zone - 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	Average of test results less than respective ADWG aesthetic guideline value	0.030	0.023	Yes
Aluminium	mg/L	0.2		0.037	0.032	Yes
Copper	mg/L	1		0.005	0.006	Yes
Zinc	mg/L	3		0.004	0.004	Yes
Turbidity	NTU	5		0.2	0.2	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.69	7.50	Yes

Anna Bay / Nelson Bay Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.13	1.01	Yes
Chlorine	mg/L	5		0.90	1.16	Yes
Copper	mg/L	2		0.005	0.029	Yes
Lead	mg/L	0.01		0.000	0.000	Yes
Manganese	mg/L	0.5		0.003	0.009	Yes
Trihalomethanes	mg/L	0.25		0.043	0.098	Yes

Anna Bay / Nelson Bay Zone - 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	Average of test results less than respective ADWG aesthetic guideline value	0.030	0.005	Yes
Aluminium	mg/L	0.2		0.058	0.053	Yes
Copper	mg/L	1		0.005	0.009	Yes
Zinc	mg/L	3		0.005	0.007	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.51	7.43	Yes

Water Quality Zones

Gresford Zone - key health analytes						
Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	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	95th percentile of test results less than respective ADWG health guideline value	0.55	1.10	Yes
Gresford Zone - 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
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	8.03	7.87	Yes

PFOS and PFOA Results for Hunter Water Source Waters

Analyte	Units of Measure	US EPA Guideline Value	Grahamstown WTP	Dungog WTP	Nelson Bay WTP	Anna Bay WTP	Lemon Tree Passage WTP	Gresford WTP
PFOS	µg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PFOA	µg/L	0.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01