



Report on Compliance with the Drinking-water Standards for New Zealand 2005 (revised 2018) and duties under Health Act 1956

For Period: 1 July 2018 to 30 June 2019

Drinking Water Supply(ies):

Hurunui District Council Supplies

Water Supplier:

Hurunui District Council

South Island Drinking Water Assessment Unit (Christchurch)
P.O. Box 1475, Christchurch 8140

Report Identifier
HurunuiDistrictCouncil_DWSNZ2005(Revised2018)_100919_v1

Terminology

Non-Compliance = Areas where the drinking water supply does not comply with the Drinking Water Standards for New Zealand 2005 (revised 2018).

During the compliance period (1 July 2018 to 30 June 2019) the Ministry of Health released a revision of the Drinking Water Standards for New Zealand. The revised standard came into force on 1 March 2019. This report reflects the changeover between the two standards by identifying compliance requirements 'Post March 1st 2019' where new compliance requirements were introduced by the revised standard.

Treatment Plants

Bacterial compliance is under section 4 of the DWSNZ2005/18

Protozoal compliance is under section 5 of the DWSNZ2005/18

Cyanotoxin compliance is under section 7 of the DWSNZ2005/18

Chemical compliance is under section 8 of the DWSNZ2005/18

Radiological compliance is under section 9 of the DWSNZ2005/18

Treatment Plant: Bacterial compliance

Summary of E.coli sampling results

Plant name	Pre and Post March 1 st 2019				Post March 1 st 2019
	Number of samples required	Number of samples collected	Number of transgressions	Compliance	Requirement for Total Coliform monitoring met
Amuri Rural	104	104	0	Compliant	Yes
Ashley Rural	104	104	0	Compliant	Yes
Balmoral	52	52	1	Non-compliant	Yes
Blythe	52	52	0	Compliant	Yes
Broomfield (Racecourse Rd)	12	13	0	Compliant	Yes
Bakers Road (Hawarden/Waikari)	104	104	0	Compliant	Yes
Cheviot	104	104	0	Compliant	Yes
Culverden	12	12	0	Compliant	Yes
Hanmer Springs	104	104	0	Compliant	Yes
Hurunui #1 Rural (Motunau/Greta/Scargill)	104	104	0	Compliant	Yes
Kaiwara	52	52	0	Compliant	Yes
Kowai (Amberley/Amberley Beach)	24 ¹	24	0	Compliant	Yes
Leithfield Beach	12	12	0	Compliant	Yes
Lower Waitohi	52	52	0	Compliant	Yes
Parnassus	52	52	0	Compliant	Yes
Peaks	52	52	0	Compliant	Yes
Waitohi Upper	104	104	0	Compliant	Yes
Waiau Home Stream (Waiau Rural)	52	52	0	Compliant	Yes
Waiau Township	4	104	0	Compliant	Yes
Waipara	52	52	0	Compliant	Yes

1. Kowai TP requires 24 E.coli samples (12 samples from State Highway 1 Bore and 12 samples from Kowai Bore)

Summary of compliance with sampling / analytical / remedial / operational requirements

All plants were assessed for compliance against Bacterial Compliance Criteria 1 (*E. coli* monitoring only), with the exception of Waiau Township, which was assessed against Section 10.

19 of 20 treatment plants met all the requirements to comply with Criteria 1. This amounts to the same level of treatment plant bacterial compliance as 2017-18 and 2016-17. The overall rate of transgression has improved. This year there was 1 transgression from 1309 samples (transgression rate of 0.07%). In 2017-18 there were 2 transgressions from 1227 samples (transgression rate of 0.16%). In 2016-17 there were 3 transgressions from 1424 samples (transgression rate of 0.21%).

Balmoral was the one plant that did not comply with the Bacterial compliance criteria. The non-compliance was due to the occurrence of an *E. coli* transgression. Appropriate and timely remedial action was taken including improvements with the chlorine dosing regime at this plant.

Total coliform testing became mandatory from 1st March 2019. All bacterial samples in the compliance year were tested for both *E. coli* and Total Coliforms. The requirement for *E. coli* and Total Coliform samples to be analysed by a Ministry of Health recognised laboratory was met for all treatment plants.

Treatment Plant : Protozoa compliance

Plant Name	Basis of Protozoa Risk Category	Log Credit Required Pre March 1 st 2019	Log Credit Required Post March 1 st 2019
Amuri Rural	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Ashley Rural	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Bakers Road (Hawarden/Waikari)	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Balmoral	Catchment Risk Assessment (report dated Jan 2017)	4	4
Blythe	Catchment Risk Assessment (report dated Sept 2017) Revised assignment (from 1 st March): DWSNZ 2005 (revised 2018) 4 log is highest required for any source	5	4
Broomfield (Racecourse Rd)	Secure bore water	0	0
Cheviot	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Culverden	Secure bore water	0	0
Hanmer Springs	Rogerson River: Protozoa raw water testing (completed Feb 2016 to Feb 2017) Dillon's Creek: Catchment Risk Assessment (report dated Jan 2017)	3	3
Hurunui #1 Rural (Motunau/Greta/Scargill)	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Kaiwara	Assignment based on combination of catchment risk assessment and protozoa raw water testing from Hurunui #1 intake (in same reach of Hurunui River – report dated Sept 2017)	3	3

Kowai (Amberley/Amberley Beach)	Secure bore water	0	0
Leithfield Beach	Secure bore water	0	0
Lower Waitohi	Protozoa raw water testing (completed July 2017 to July 2018)	3	3
Parnassus	Protozoa raw water testing (completed July 2017 to July 2018)	3	3
Peaks	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Waitohi Upper	Protozoa raw water testing (completed Feb 2016 to Feb 2017)	3	3
Waiau Home Stream (Waiau Rural)	Protozoa raw water testing (completed July 2017 to July 2018)	3	3
Waiau Township	DWSNZ Section 10 (Small supply compliance): Assigned as per DWSNZ Table 10.1 'Unprotected Catchment'	4	4
Waipara	Original assignation: under DWSNZ 2005 (revised 2008) Table 5.1a 'bore water drawn from unconfined aquifer 10 to 30m deep and satisfies groundwater security criteria 2' Revised assignation (from 1 st March): DWSNZ 2005 Section 5.2.1.1 (revised 2018) allows 2 log assignation for non-secure groundwater if bacterial compliance met by chlorination.	3	2

Summary of Compliance with Risk Categorisation process

As outlined in the table above, HDC have completed raw water protozoa monitoring for the majority of intakes and this has been used as the basis for most of the protozoa log credit assignations. Changes to the DWSNZ that came into effect on the 1st March 2019 impacted on the protozoa log credit assignation for Waipara and Blythe. The DWSNZ changes have resulted in a reduction in the protozoa log credit assignation for Waipara from 3 to 2 and for Blythe from 5 to 4.

Summary of Treatment Processes and associated Log Credits

Plant name	Treatment Process ¹	Potential Log Credit Available	Summary of Turbidity results	Compliance with all other requirements of criterion ²	Log credit achieved pre March 1st	Log credit achieved post March 1st
Leithfield Beach	Full bore water security	NA ³	NA	Yes	Yes	Yes
Culverden	Full bore water security	NA ³	NA	Yes	Yes	Yes
Amberley (Kowai / SH1)	Full bore water security	NA ³	NA	Yes	Yes	Yes

Hanmer Springs	Direct Filtration and U.V	5.5	Continuous turbidity results did not meet <2.0 NTU for any 3 min period	No	No	No
Leithfield Beach	Full bore water security	NA ³	NA	Yes	Yes	Yes
Racecourse Rd (Broomfield)	Full bore water security	NA ³	NA	Yes	Yes	Yes
Waiau Town	Membrane Filtration	4	NA ⁴	Complied with requirements of DWSNZ, Section 10	Yes	Yes
All other plants	None of these plants have treatment in place that is capable of meeting the protozoa removal/inactivation requirements of the DWSNZ			No	No	No

1 Treatment Process meeting DWSNZ definition of available combination of treatment technology

2 Further detail provided below under log credit assessment

3 Not Applicable - secure bore water does not require any protozoa log removal process

4 Waiau Township treatment plant has continuous, online turbidity measurement, but there are no turbidity related compliance criteria in Section 10 of the DWSNZ. The treatment process was 'monitored and operated in accordance with the manufacturer's instructions' as per the requirement in DWSNZ, Section 10.3.1.

Summary of Log Credit Assessment

Hanmer Springs treatment plant has rapid sand filtration and a validated U.V unit in place that is potentially capable of complying with the protozoa requirements of the DWSNZ. However protozoa compliance cannot be achieved until such time as results from continuous turbidity monitoring meet all aspects of Section 5.16 of the DWSNZ.

Waiau Township meets the criteria for assessment as a 'small water supply' under Section 10 of the DWSNZ. It has an approved and implemented water safety plan. It has effective treatment (with membrane filtration followed by chlorination). The membrane filtration plant achieves 'Bacterial and 4 log protozoa treatment' as per DWSNZ Table 10.1. The treatment process was 'monitored and operated in accordance with the manufacturer's instructions' as per the requirement in Section 10.3.1.

Leithfield Beach, Broomfield, Amberley/Amberley Beach and Culverden are all supplied water via treatment plants that are fed by groundwater with full security status and therefore comply with the protozoa compliance criteria.

All other HDC treatment plants – don't have treatment in place capable of complying with the protozoa removal/inactivation requirements of the DWSNZ.

Log Credit Total (Total of all Treatment Processes) Achieved:

Kowai (Amberley)	-	Protozoa compliant
Culverden	-	Protozoa compliant
Leithfield Beach	-	Protozoa compliant
Racecourse Rd (Broomfield)	-	Protozoa compliant
Waiau Town	-	4 Log = Protozoa compliant
All other HDC plants	-	Protozoa non-compliant

Treatment Plant : Cyanotoxin Compliance

Hurunui District Council do not currently have cyanobacteria management protocols in place for any supplies that are abstracting (either directly or via a hydraulic link) from surface waters. A number of HDC supplies abstract water from shallow bores or infiltration galleries that are known to be hydraulically linked to rivers that from time to time experience toxic algal blooms (e.g. Hurunui, Ashley, Waitohi and Waiau Rivers).

The DWA considers the following source waters to be at risk from bloom development in surface water:

- Amuri / Rotherham (Mouse Point Wells – G00649) – shallow wells linked to Waiau River
- Ashley Rural (Ashley Rural Bores – G00139) – shallow wells linked to Ashley River
- Cheviot (Waiau River Gallery – G00179) – shallow wells linked to Waiau River
- Hurunui Lower/Blythe (Hurunui River 1 – S00511) – shallow well linked to Hurunui River
- Kaiwara (Hurunui River 2 – S00512) – shallow well linked to Hurunui River
- Lower Waitohi/Karaka (Lower Waitohi Gallery – S00524) – infiltration gallery, Waitohi River
- Motunau/Greta/Scargill (Well Hurunui No. 1 – G00143) – infiltration gallery, Hurunui River
- Parnassus (Parnassus Well – G00651) – shallow well linked to Waiau River
- Peaks (Hurunui Rv 3 – S00513) – shallow well linked to Hurunui River
- Waiau township (Waiau River Gallery – G01053) – shallow well linked to Waiau River
- Waiau Rural (Home Stream – S00537) – shallow well linked to Home Stream and Waiau River
- Waitohi Upper (Upper Waitohi Gallery – S00536) – shallow well linked to Waitohi River

Other HDC supplies with surface water sources that may also be at risk:

- Hawarden/Waikari (Bishells Road bore – G01096) – currently unclear the extent of link with Hurunui River, but age dating has shown source to be under surface water influence
- Balmoral (Awatui Stream – S00532) – unclear of risk of algal bloom development in stream.
- Hanmer (Rogerson River – S00443, Dillons Creek S00642) – unclear of risk of algal bloom in river / creek.

Summary of Management Protocol Compliance

Kowai, Racecourse Road, Culverden, Leithfield Beach: N/A because the treatment plants are supplied solely from groundwater sources.

All other HDC Treatment Plants: Non-compliant because no cyanobacteria management protocol is in place.

Priority 2 (Cyanotoxin) Compliance : Monitoring Results

Not applicable – no Priority 2 for cyanotoxin have been assigned to HDC treatment plants.

Treatment Plant : Chemical compliance

Plumbsolvency

All HDC Treatment Plants – A plumbsolvent water notice was provided to consumers at the specified frequency during the compliance period.

Priority 2 Determinands: Monitoring Results

All HDC Treatment Plants – Not applicable because no HDC treatment plants have Priority 2 determinands assigned.

Treatment Plant : Radiological compliance

Results Summary

Note: No HDC Treatment Plants have radiological determinands assigned as Priority 2.

Plant Name	Number of Samples Taken	Exceedences of MAVs	One in ten year test completed?
Kowai TP (Amberley) – SH1 bore	N/A – not a Priority 2	N/A	Yes – completed Oct 2013
Kowai TP (Amberley) – Kowai River Rd bore	N/A – not a Priority 2	N/A	Yes – completed June 2014
Racecourse Rd TP (Broomfield)– Racecourse Rd bore	N/A – not a Priority 2	N/A	Yes – completed June 2014
Culverden TP – Culverden bore	N/A – not a Priority 2	N/A	Yes – completed Oct 2016
Leithfield Beach TP – Lucas Ave (2014) bore	N/A – not a Priority 2	N/A	Yes – completed June 2014
Waipara TP – Waipara bore	N/A – not a Priority 2	N/A	Yes – completed August 2016
All other HDC treatment plants / sources*	N/A – not a Priority 2	N/A	N/A – surface water influenced sources

The DWSNZ require that radiological determinands are tested every 10 years for bore water supplies that are not considered to be equivalent to surface water.

Distribution Zones

Distribution zone bacterial compliance is under section 4.4 of the DWSNZ2005/18

Cyanotoxin compliance is under section 7 of the DWSNZ2005/18

Chemical compliance is under section 8 of the DWSNZ2005/18

The following compliance information is derived from Drinking Water Online Database.

Distribution Zone : Bacterial compliance

Summary of E.coli sampling results

Distribution zone name	Pre and Post March 1 st 2019				Post March 1 st 2019
	Number of samples required	Number of samples collected	Number of transgressions	Compliance	Total coliform monitoring
Amberley	52	52	0	Compliant	Y
Amberley Beach	12	52	0	Compliant	Y
Ashley/Sefton/Loburn	52	103	0	Compliant	Y
Balmoral	12	16	0	Compliant	Y
Blythe	12	12	0	Compliant	Y
Broomfield	12	53	0	Compliant	Y
Cheviot	52	52	0	Compliant	Y
Gore Bay / Port Robinson	12	52	0	Compliant	Y
Culverden	12	12	0	Compliant	Y
Hanmer Springs	52	104	0	Compliant	Y
Hawarden/Waikari	52	52	0	Compliant	Y
Kaiwara	12	12	0	Compliant	Y
Leithfield Beach	12	12	0	Compliant	Y
Leithfield	52	52	0	Compliant	Y
Lower Waitohi	12	12	0	Compliant	Y
Motunau/Greta/Scargill	52	52	0	Compliant	Y

Parnassus	12	12	0	Compliant	Y
Peaks	12	12	0	Compliant	Y
Rotherham	52	52	0	Compliant	Y
Waiau Rural	12	12	0	Compliant	Y
Waiau Township	12	52	0	Compliant	Y
Waipara	12	12	0	Compliant	Y
Waitohi Upper	52	52	0	Compliant	Y

Summary of compliance with general sampling / analytical / remedial action requirements

All distribution zones were assessed for compliance against compliance criteria 6A, with the exception of Waiau Township, that was assessed under Section 10 ('Small water supplies').

All distribution zones complied with the bacteriological requirements of the DWSNZ. This is an improvement in compliance than what was achieved last year (when 2 distribution zones failed to comply). This year also saw an improvement in the overall transgression rate with 0 transgressions from 904 samples (0% transgression rate) compared to a transgression rate of 0.3% in 2017-18.

The requirement for E. coli and Total coliform testing to be conducted by a Ministry of Health recognised laboratory was met for all distribution zones.

Distribution Zone : Cyanotoxin Compliance

All HDC distribution zones – not applicable, no Priority 2 assignment for cyanotoxins

Distribution Zone : Chemical compliance

All HDC distribution zones – not applicable, no Priority 2 assignments for chemical determinands.

Summary of Audit Activities to Verify DWSNZ Monitoring Data

An audit of *E. coli* compliance monitoring results was undertaken by the DWA (Kirsty Macleod) at Food and Health Standards (FHS) office on 12 July 2019. FHS manage the Drinking Water Online database on behalf of HDC. The audit compared the emailed laboratory reports fromASUREQuality and Eurofins (both laboratories were used by HDC during the compliance year), against the compliance results that had been entered in the Drinking Water Online database for a random selection of samples. Five distribution zones and five treatment plants were randomly selected for audit, with 10 samples randomly selected from each plant and distribution zone. The following were included:

- Distribution Zones – Hawarden/Waikari, Hanmer Springs, Waitohi Upper, Ashley Rural and Waiau Town (samples covered the date range from 1 July 2018 to 30 June 2019)
- Treatment Plants – Bakers Ford (Hawarden-Waikari), Ashley Rural, Waiau Town, Hanmer Springs, Waitohi Upper (samples covered the date range from 1 July 2018 to 30 June 2019).

The audit found that all sample results viewed had been accurately reported in the Drinking Water Online database. In addition to checking the accuracy of results for the selection of *E. coli* samples, the audit also confirmed Total coliform testing had been reported by the laboratories in conjunction with the *E. coli* results.

Summary of DWSNZ Compliance

Treatment Plants

Supply	Bacterial compliance	Protozoa compliance	Chemical compliance	Radiological compliance	Cyanotoxin compliance
Amberley (Kowai)	✓	✓	✓	✓	N/A
Amuri Rural	✓	x	✓	N/A	x
Ashley Rural	✓	x	✓	N/A	x
Hawarden-Waikari (Bakers Ford)	✓	x	✓	N/A	x
Balmoral	x	x	✓	N/A	x
Blythe	✓	x	✓	N/A	x
Broomfield (Racecourse Rd)	✓	✓	✓	✓	N/A
Cheviot	✓	x	✓	N/A	x
Culverden	✓	✓	✓	✓	N/A
Hanmer Springs	✓	x	✓	N/A	x
Motunau/Greta/Scargill (Hurunui #1)	✓	x	✓	N/A	x
Kaiwara	✓	x	✓	N/A	x
Leithfield Beach (Lucas Ave)	✓	✓	✓	✓	N/A
Lower Waitohi	✓	x	✓	N/A	x
Parnassus	✓	x	✓	N/A	x
Peaks	✓	x	✓	N/A	x
Waiau Town	✓	✓	✓	N/A	x
Waiau Rural	✓	x	✓	N/A	x
Waipara	✓	x	✓	✓	N/A
Waitohi Upper	✓	x	✓	N/A	x

Distribution zones

Supply	Bacterial compliance	Chemical compliance
Amberley	✓	✓
Amberley Beach	✓	✓
Ashley/Sefton/Loburn	✓	✓
Balmoral	✓	✓
Blythe	✓	✓
Broomfield	✓	✓
Cheviot	✓	✓
Culverden	✓	✓
Gore Bay/Port Robinson	✓	✓
Hanmer Springs	✓	✓
Hawarden/Waikari	✓	✓
Kaiwara	✓	✓
Leithfield Beach	✓	✓
Leithfield	✓	✓
Lower Waitohi	✓	✓
Motunau/Greta/Scargill	✓	✓
Parnassus	✓	✓
Peaks	✓	✓
Rotherham	✓	✓
Waiiau Town	✓	✓
Waiiau Rural	✓	✓
Waipara	✓	✓
Waitohi Upper	✓	✓

Assessment of Compliance with Duties of drinking-water suppliers under the Act

The following duties of the water supplier under the Health Act have all been met.

Section 69S – Duty of suppliers in relation to the provision of drinking water	Met for all supplies
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This decision is based on the following –HDC have SCADA monitoring and alarming equipment in place to remotely monitor factors such as flow and pump outage in order to allow them to be alerted and respond quickly to water outage events. The DWA is not aware of any supply interruption / outage of greater than 8 hours, that would have required notification to the Medical Officer of Health under Section 69S.

Section 69U – Duty to take reasonable steps to contribute to protection of source of drinking water	Met for all supplies
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This decision is based on the following – HDC have some mechanisms in place to contribute towards protection of their source waters, including representation on the Hurunui-Waiiau Zone Committee and active representation on the Canterbury Drinking Water Reference Group.

HDC have demonstrated a proactive response to source protection by reviewing and obtaining conditions for resource consent applications occurring within the source protection zones allocated by Environment Canterbury (e.g. septic tank discharge in the Ashley Rural source protection zone).

HDC's district plan includes some specific rules that include assessment criteria in relation to subdivision and the disposal of sewage and storm-water within a drinking water source protection zone.

Section 69ZD – Duty to keep records and make them available	Met for all supplies
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This decision is based on the following – HDC utilise the Drinking Water Online database to record compliance data. Data entry is performed by a contractor, Food and Health Standards (2006) Ltd. HDC also maintain plant operating records and data in Water Outlook and make these available to the DWA on request. Records in relation to treatment plant site checks have been improved significantly following the implementation of the Water Outlook database for this purpose.

Records in relation to details of supply treatment, risk analysis, source waters and monitoring are maintained in a variety of places including asset management records, assessment of water and sanitary service reports, 30 year infrastructure document and the water safety plans.

Section 69ZE – Duty to investigate complaints	Met for all supplies
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This decision is based on the following – HDC utilise the Napier Computer System (NCS) database to record and track all complaints in relation to drinking water. A data extract of entries in the NCS database was examined during each of the nine water safety plan implementation assessments undertaken by the DWA during 2018-2019.

Status of Water Safety Plans

During the compliance period (1 July 2018 to 30 June 2019) HDC had approved and implemented WSPs for all drinking-water supplies. Three non-conformances in relation to implementation of these plans remain outstanding. HDC have agreed to timeframes to address these non-conformances.

Medium Network Supplies

Please be aware that under the Health (Drinking Water) Amendment Act 2007, the Ashley Rural supply is a medium supply. The legal requirement to comply with the drinking water standards applied to medium supplies from 1 July 2013. Note however that the Ashley Rural supply is made up of two zones, neither of which are >5000 population.

Minor Network Supplies

Please be aware that under the Health (Drinking Water) Amendment Act 2007, the **Amberley, Amuri, Broomfield, Cheviot, Hanmer Springs, Hawarden/Waikari, Motunau/Greta/Scargill and Waitohi Upper** supplies are minor supplies. The legal requirement to comply with the drinking water standards applied to medium supplies from 1 July 2014.

Small Network Supplies

Please be aware that under the Health (Drinking Water) Amendment Act 2007, the **Balmoral, Culverden, Kaiwara, Lower Waitohi, Parnassus, Waiau township, Waiau rural and Waipara** supplies are small supplies. The legal requirement to comply with the drinking water standards applied to medium supplies from 1 July 2015

Neighbourhood Network Supplies

Please be aware that under the Health (Drinking Water) Amendment Act 2007, the **Blythe and Peaks** supplies are neighbourhood supplies. The legal requirement to comply with the drinking water standards applied to neighbourhood supplies from 1 July 2016.

The results in this report relate only to the compliance of the above listed treatment plants and distribution zones.

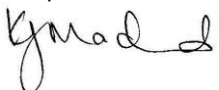
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Completed: 10 September 2019



Kirsty Macleod
IANZ Accredited Drinking Water Assessor
South Island Drinking Water Assessment Unit, Christchurch

Assessment Report Information

Report identifier	HurunuiDistrictCouncil_DWSNZ2005/18Compliance_100919_v1
Drinking Water Assessment Unit (Inspection Body)	South Island Drinking Water Assessment Unit PO Box 1475 310 Manchester Street Christchurch Ph 03 3786774
Drinking Water Assessor	Kirsty Macleod (Signatory peer reviewed by Simon Ou)
Assessment Date	Assessment of compliance, audit and data checking carried out from 12/7/19 to 23/8/19 (covering compliance period 1 July 2018 to 30 June 2019). Compliance report prepared 26/8/19 to 10/9/19.
Description of assessment work	Assessment of Compliance with Drinking Water Standards for New Zealand 2005(revised 2018) for: Treatment Plants: Amberley SH1 (TP00194), Amuri Rural (TP01076), Ashley Rural (TP00191), Awatui (TP01077), Bakers Ford (TP00195), Blythe Pumphouse (TP00970), Cheviot (TP00198), Culverden (TP01080), Hanmer Springs (TP00197), Hurunui No 1 (TP00196), Kaiwara (TP00971), Kowai (TP02294), Leithfield Beach (TP01082), Lower Waitohi (TP01081), Parnassus Rural (TP01083), Peaks Pumphouse (TP00972), Racecourse Rd (TP02880), Waitohi Upper (TP01084), Waiau Home Stream Plant (TP01085), Waiau Township (TP00433), Waipara Township (TP01086). Distribution Zones: Amberley Town (AMB001AT), Amberley Beach (AMB001BE), Broomfield (AMB004BR), Rotherham Township (AMU001RO), Ashley/Sefton/Loburn (ASH002AS), Balmoral Rural (BAL003BA), Cheviot (CHE001CT), Gore Bay/Port Robinson (CHE001GO), Culverden (CUL001CU), Hanmer Springs (HAN001HA), Hawarden/Waikari (HAW001HW), Blythe Rural (HUR002HU), Kaiwara (KAI039KA), Lower Waitohi (KAR005KA), Leithfield Rural (ASH002LE), Leithfield Beach (ASH002LB), Motunau/Greta/Scargill (MOT016MO), Parnassus Rural (PAR009PA), Peaks Rural (PEA001PE), Waiau Township (WAI026WT), Waitohi Upper (WAI066UP), Waiau Rural (WAI067WA), Waipara Township (WAI068WA)
Equipment Used	Drinking Water Online Database was used to review compliance data
Water Supply Owner / Person Responsible	Hurunui District Council (Hamish Dobbie – Chief Executive Officer, Dan Harris – Chief Operating Officer, Alex Makogan – 2 Waters Field Operations Manager)
Assessment method	Standard assessment as per Scope 1A Procedure Drinking Water Standards for New Zealand 2005(revised 2018)
Documents and Information	Drinking Water Standards for New Zealand 2005(revised2018) Part 2A Health Act 1956
Site of Assessment	Community and Public Health, 310 Manchester Street, Christchurch Food and Health Standards 2006 Ltd, Mandeville Street, Christchurch (for verification of monitoring data)
Omissions from proposed assessment	Nil
Sub-contracted work	Nil
Document checked by:	Simon Ou IANZ Accredited Drinking Water Assessor Date: 10.09.2019
Release of report authorised by:	Kirsty Macleod  IANZ Accredited Drinking Water Assessor Date: 10.09.2019

If you do not agree with the findings of this report a written appeal must be lodged with the Technical Manager, South Island Drinking Water Assessment Unit, PO Box 1475, Christchurch) within 2 months of receipt of this report. The Technical Manager will arrange for a review to be undertaken using the Ministry of Health appeals procedure.