

Central Highlands Water Determination

1 July 2018 – 30 June 2023

19 June 2018



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1. General

1.1. Introduction

- (a) Clause 14 of the **WIRO** requires the commission to either:
 - approve the maximum prices the *regulated entity* may charge for *prescribed services* or the manner in which the *regulated entity's* prices are to be calculated, determined or otherwise regulated, as proposed by the *regulated entity* in its *price submission*; or
 - (ii) specify the maximum prices the *regulated entity* may charge for *prescribed services* or the manner in which the *regulated entity's* prices are to be calculated, determined or otherwise regulated.
- **(b)** On 13 June 2018, the commission made its decision under the *WIRO* in respect of:
 - the prices which Central Highlands Region Water Corporation (trading as Central Highlands Water) (ABN 75 224 340 348) (*Central Highlands Water*) may charge for *prescribed services* during the *regulatory period*; and
 - (ii) the standards and conditions of service and supply which *Central Highlands Water* has included in its *price submission*.
- (c) This Determination is made by the commission under section 33 of the *ESC Act*, pursuant to clauses 10 and 14 of the *WIRO*.
- **(d)** The purpose for the making of this Determination are to:
 - (i) give effect to the decision of the commission referred to in clause 1.1(b)(i);
 - specify the maximum prices which *Central Highlands Water* may charge for *prescribed services* during the *regulatory period* or the manner in which such prices are to be calculated, determined or otherwise regulated;
 - (iii) facilitate the achievement of the commission's objectives in the **ESC Act** and the **WI Act**; and
 - (iv) reflect the requirements in the **WIRO**.
- (e) The reasons for the making of this Determination are as set out in the decision published by the commission on 19 June 2018.

1.2. Application

This Determination applies to *Central Highlands Water* and its successors and assigns in respect of the business carried on by *Central Highlands Water* at the date of this Determination.

1.3. Effective period

(a) Term

This Determination takes effect on the later of the date on which notice of its making is published in the Government Gazette or 1 July 2018, subject to clause 1.3(b), has effect until the earlier of the date on which it is amended or revoked by a later determination or 30 June 2023.

(b) Next regulatory period

Subject to clause 2.3(b)(ii), if the commission has not made a determination in respect of the prices to apply in the *next regulatory period* on or before 30 June 2023, the prices or the manner in which such prices are to be calculated or otherwise determined as set out in this Determination will continue to apply in respect of *prescribed services* provided by *Central Highlands Water* between 1 July 2023 and the date on which the determination for the *next regulatory period* comes into effect.

1.4. Modification of time periods

The commission may, by notice to *Central Highlands Water*, extend or reduce the time by which, or the period within which, *Central Highlands Water* or the commission must comply with an obligation under this Determination.

1.5. Summary and structure

Clause 2 of this Determination specifies the prices which will apply to *prescribed services* during the *regulatory period* and sets out the procedure and formula according to which prices may be adjusted during the *regulatory period* on an annual basis. Clauses 3, 4 and 5 provide for the circumstances in which prices may be adjusted during the *regulatory period* otherwise than in accordance with clause 2.

1.6. Definitions and interpretation

In this Determination, unless the contrary intention appears:

- (a) words and phrases in bold italics have the meanings given to them in part A of Schedule 1; and
- **(b)** the rules of interpretation in part B of Schedule 1 will apply.

1.7. Annexure

- (a) For convenience, Annexure A to this Determination summarises:
 - (i) the assumptions underpinning the prices to apply to *Central Highlands Water* during the *regulatory period* or the manner in which such prices are to be calculated, determined or otherwise regulated; and
 - (ii) the standards and conditions of services and supply additional to those specified in the *Code* which will be provided by *Central Highlands Water* pursuant to the decision referred to in clause 1.1(b)(ii).
- **(b)** For the avoidance of doubt, Annexure A does not form part of this Determination.

2. Price control

2.1. General principles

Subject to this Determination:

(a) Scheduled prices

Central Highlands Water must not charge more than:

- (i) the scheduled prices in Schedule 2, during the first *regulatory year*; and
- (ii) the amounts determined in accordance with clause 2.3, during each subsequent *regulatory year*,

in respect of those prescribed services to which the scheduled prices in Schedule 2 relate.

(b) Application principles

The application principles in Schedule 3 will apply to the prices charged by **Central Highlands Water** in respect of **prescribed services** during the **regulatory period**.

(c) Pricing principles

During the *regulatory period*, *Central Highlands Water* must apply the pricing principles in Schedule 4 when determining the prices to apply to the *prescribed services* to which the pricing principles in Schedule 4 relate.

2.2. Ancillary matters

(a) Contracts

Where *Central Highlands Water* has entered into a contract (a *relevant contract*) which relates to the provision of *prescribed services* prior to 1 July 2018, *Central Highlands Water* may charge the prices for *prescribed services* which are set out in that *relevant contract* until its expiration, termination or a periodic review of the prices set out in the contract. Once a *relevant contract* has expired or been terminated or the prices in a *relevant contract* have been subject to a periodic review, the scheduled prices in Schedule 2 (as adjusted in accordance with this Determination) or the prices determined in accordance with the pricing principles in Schedule 4 will apply for the remainder of the *regulatory period*.

(b) Dispute Resolution

Any question as to whether a price has been set in accordance with this Determination will be determined by the commission on the basis of the commission's interpretation of this Determination.

(c) Publication

Central Highlands Water must publish a list of its current prices and pricing principles for **prescribed services**, and all relevant supporting information that is relied upon to apply the prices or pricing principles, on its website at all times during the **regulatory period** and must provide a written copy of the list to its customers on request. The list must clearly indicate in respect of each price, the amount determined in accordance with this Determination, the amount of GST payable and the total price (in a manner consistent with the requirements of the *Competition and Consumer Act 2010* (Cth)).

(d) GST

Central Highlands Water will not be considered to be in contravention of this Determination if a price charged by it for a **prescribed service** exceeds the amount determined in accordance with clause 2 only by reason of the levying of a charge on account of **GST**.

2.3. Annual adjustment of prices

(a) Adjustment

(i) Subject to Schedule 2 and Schedule 5, the scheduled prices in Schedule 2 will be adjusted in each subsequent *regulatory year* in the *regulatory period* in accordance with the formula in clause 2.3(b)(i) and the procedure in clause 2.3(c), and will apply to the *prescribed services* to which the scheduled prices in Schedule 2 relate in that *regulatory year*.

(b) Formula

(i) Subject to Schedule 2 and Schedule 5, each price for the *prescribed services* referred to in clause 2.3(a) will be adjusted in accordance with the following formula with effect from the beginning of each subsequent *regulatory year* in the *regulatory period*:

$$p_t = p_{t-1} \times \frac{CPI_t}{CPI_{t-1}} \times (1 + PPM_t)$$

where:

 p_t is the price component for **regulatory year** 't'

 p_{t-1} is the price component for **regulatory year** 't-1'

 CPI_t for the particular **regulatory year** is:

the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics for the March quarter immediately preceding the start of the relevant *regulatory year*

divided by

the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics for the March quarter immediately preceding the March quarter referred to above

 PPM_t is the prescribed price movement for the price component for regulatory year t determined in accordance with Schedule 2.

(ii) If the commission has not made a determination in respect of the prices to apply in the *next regulatory period* on or before 30 June 2023, PPM_t will be set equal to zero for the purpose of adjusting prices in accordance with the formula in clause 2.3(b)(i) for *regulatory years* commencing on or after 1 July 2023 until the date on which this determination is amended or revoked by a later determination.

(c) Adjustment procedure

- (i) At least 30 business days prior to the commencement of each subsequent regulatory year in the regulatory period, Central Highlands Water must submit its proposed prices for the prescribed services referred to in clause 2.3(a) to apply in that subsequent regulatory year (the revised scheduled prices) to the commission for approval, together with sufficient information to enable the commission to assess whether the proposed prices comply with this Determination.
- (ii) The commission will approve the *revised scheduled prices* if it considers that they have been calculated in accordance with the formula set out in clause 2.3(b)(i).
- (iii) The commission will be deemed to have approved the revised scheduled prices if it has not provided notice under clause 2.3(c)(iv) to Central Highlands Water within 20 business days from the date of its receipt of the revised scheduled prices.
- (iv) If the commission does not approve the *revised scheduled prices*, the commission:

- (A) will provide notice to *Central Highlands Water* (including a statement of its reasons);
- (B) may request *Central Highlands Water* to provide any additional information specified by the commission;
- (C) will take any additional information provided by **Central Highlands Water** into account; and
- (D) will determine the *revised scheduled prices*.

2.4. Price changes during a billing period

(a) Application of this clause

This clause 2.4 applies where *Central Highlands Water* issues an invoice in respect of a billing period during which a change to any price for a *prescribed service* comes into effect in accordance with this Determination.

(b) Method of charging

Central Highlands Water must not charge the prices determined in accordance with this Determination in respect of any part of a billing period prior to the effective date of the change, but may charge for **prescribed services** in respect of the periods before and after the effective date of the change at the prices applicable for each of those periods on a pro-rata basis.

2.5. Reporting requirements

- (a) Central Highlands Water must make available to the commission all information reasonably requested by the commission from time to time for the purpose of enabling it to confirm that Central Highlands Water is complying with this Determination.
- (b) Without limiting clause 2.5(a), if, during the regulatory period, Central Highlands Water enters into a new contract which relates to the provision of a prescribed service to which the pricing principles in Schedule 4 relate, Central Highlands Water must, within 30 business days of the date of the new contract, on request provide the commission with a notice specifying:
 - (i) details of the **new contract**; and
 - (ii) information which demonstrates the way in which the prices in the *newcontract* reflect the relevant pricing principles.

- (c) Without limiting clause 2.5(a), if *Central Highlands Water* proposes to stop providing a *prescribed service* or refuses to provide a *prescribed service* to a customer, or potential customer, during the *regulatory period*, it must:
 - (i) in the case of a proposal to stop providing a prescribed service, provide a notice to the commission stating the nature of the prescribed service which it proposes to stop providing and the reason why it proposes to stop providing the prescribed service. This notice must be provided at least 30 business days prior to the date upon which Central Highlands Water proposes to stop providing the prescribed service; and
 - (ii) in the case of a refusal to provide a prescribed service to a customer, or potential customer, Central Highlands Water must provide a notice to the commission within 5 business days of the refusal, stating the nature of the prescribed service and the reason for the refusal.

3. Amendment of Schedule 2

(a) Amendment

- (i) Central Highlands Water may apply to the commission in accordance with this clause 3 and Schedule 5 for the amendment of the prescribed price movements and/or price components included in Schedule 2 for the following regulatory year (the relevant regulatory year) and all subsequent regulatory years remaining in the regulatory period (the revised tariff schedule).
- (ii) The average price movement for the *relevant regulatory year* and for each subsequent *regulatory year* in the *regulatory period* determined in accordance with the *revised tariff schedule* must not exceed the weighted average price movement that would otherwise have applied under this Determination as calculated in accordance with the following formula.

$$\frac{\sum\limits_{i=1}^{n}\sum\limits_{j=1}^{m}p_{t}^{ij}q_{t-2}^{ij}}{\sum\limits_{i=1}^{n}\sum\limits_{j=1}^{m}p_{t-1}^{ij}q_{t-2}^{ij}}\geq \frac{\sum\limits_{i=1}^{n}\sum\limits_{j=1}^{m}ap_{t}^{ij}q_{t-2}^{ij}}{\sum\limits_{i=1}^{n}\sum\limits_{j=1}^{m}p_{t-1}^{ij}q_{t-2}^{ij}},i=1,...n;j=1...m$$

where **Central Highlands Water** has *n* tariff categories, which each have up to *m* tariff components, and where, for each **regulatory year** t for which the calculation is undertaken:

- p_{t-1}^{ij} is the tariff charged in $\emph{regulatory year}$ t-1 for component j of tariff i
- p_t^{ij} is the proposed tariff for component j of tariff i determined in accordance with Schedule 2 where the $\emph{revised tariff}$ $\emph{schedule}$ is not applied
- ap_t^{ij} is the proposed tariff for component j of tariff i determined in accordance with Schedule 2 where the **revised tariff schedule** is applied
- q_{t-2}^{ij} is the quantity of component j of tariff i that was sold in $\emph{regulatory year}$ t-2, or, if an actual quantity is not available, either an estimate of the quantity of component j of tariff i that would have been sold in $\emph{regulatory year}$ t-2 or a forecast of the quantity of component j of tariff i that is expected to be sold in $\emph{regulatory year}$ t-2

(b) Amendment procedure

- (i) An application by **Central Highlands Water** under this clause 3 must be received by the commission at least 80 **business days** prior to the commencement of the **relevant regulatory year** and must be accompanied by the following information:
 - (A) (1) a clearly articulated new tariff strategy that is consistent with clause 11 of the WIRO (the revised tariff strategy); or
 - (2) an explanation of how the revised tariff schedule is consistent with the tariff strategy for Central Highlands Water approved by the commission in connection with this Determination, (the relevant tariff strategy);
 - (B) a *revised tariff schedule* that specifies proposed prices for the *relevant regulatory year* and prescribed price movements for each subsequent *regulatory year* in the *regulatory period* that is consistent with the *relevant tariff strategy*;
 - (C) a statement setting out evidence demonstrating that **Central Highlands Water** has provided information to its customers explaining the **revised tariff schedule** and how it relates to the **relevant tariff strategy** and has consulted effectively with its customers on the **revised tariff strategy** (if clause 3(b)(i)(A)(1) applies) and the **revised tariff schedule**;
 - (D) a statement setting out the customer impacts resulting from the revised tariff schedule and actions proposed by Central Highlands Water to address these customer impacts; and
 - (E) an explanation of the calculation of the relevant quantities " q_{t-2}^{ij} ".
- (ii) The commission may approve the *revised tariff schedule* submitted by *Central Highlands Water* under this clause 3 if it is satisfied that:
 - (A) **Central Highlands Water** has complied with clause 3(b)(i)(A);
 - (B) the price movements calculated in accordance with the **revised tariff schedule** comply with clause 3(a)(ii);
 - (C) the *revised tariff schedule* is consistent with the *relevant tariff strategy*;
 - (D) **Central Highlands Water** has consulted effectively with its customers on the **revised tariff strategy** (if clause 3(b)(i)(A)(1) applies) and the **revised tariff schedule**;
 - (E) **Central Highlands Water** has effectively addressed customer impacts resulting from the **revised tariff schedule**; and
 - (F) the basis for calculating the relevant quantities " q_{t-2}^{ij} " is reasonable.

- (iii) In determining whether it will approve the *revised tariff schedule*, the commission may request *Central Highlands Water* to provide any additional information specified by the commission and/or to resubmit any of the matters in clause 3(b)(i)(A)-(E).
- (iv) The commission will be deemed to have not approved a revised tariff schedule if it has not provided notice to Central Highlands Water within 40 business days from the date of its receipt of Central Highlands Water's application under this clause 3.
- (v) An approved *revised tariff schedule* will be taken to amend Schedule 2 to the extent of any inconsistency.

4. Uncertain or unforeseen events

4.1. General principle

- (a) Central Highlands Water may apply to the commission for the amendment of this Determination and/or the adjustment of the scheduled prices in Schedule 2 to reflect increased or decreased costs incurred by Central Highlands Water and/or increased or decreased revenue received by Central Highlands Water as a result of events which were uncertain or unforeseen at the time this Determination was made (an uncertain events application).
- (b) Whether or not *Central Highlands Water* makes an application under clause 4.1(a), *Central Highlands Water* must promptly notify the commission upon becoming aware of an event which could form part or all of the basis of an application.
- (c) The commission may take action under clause 4.3(b) in respect of an *uncertain*events application where the commission is satisfied that such action is necessary or desirable to take account of events that were uncertain or unforeseen at the time of making this Determination provided that the commission is satisfied that such action takes into account the interests of customers. Generally the matters taken into account will include positive and negative influences on revenue and expenditure. The Commission may limit an adjustment to only some events or a single event.

4.2. Consideration by the commission

(a) Examples of uncertain and unforeseen events

The matters that may, at the discretion of the commission, be taken into account by the commission under this clause 4 include:

- (i) actual licence fees or contributions payable by Central Highlands Water during a particular regulatory year during the regulatory period under section 51 of the Safe Drinking Water Act 2003 (Vic), section 24 of the Environment Protection Act 1970 (Vic) and section 4H(2) of the WI Act which differ from the forecast licence fees or contributions set out in Annexure A for that regulatory year;
- (ii) changes in the timing or scope of expenditure by *Central Highlands Water* on major capital projects;
- (iii) instances where the commission is satisfied that there is a material difference between the forecast demand levels set out in Annexure A and

- actual demand levels for *Central Highlands Water* in one or more *regulatory years* during the *regulatory period*;
- (iv) amounts payable by Central Highlands Water for purchases of bulk water during a particular regulatory year during the regulatory period which differ from the forecast bulk water payments set out in Annexure A for that regulatory year, and
- (v) a change in or to any of the following:
 - (A) the **WI Act**, the Water Act 1989 (Vic), the Safe Drinking Water Act 2003 (Vic), the State Owned Enterprises Act 1992 (Vic) and the Environment Protection Act 1970 (Vic);
 - (B) any licence issued pursuant to any of the Acts referred to in clause 4.2(a)(iv)(A);
 - (C) a *relevant tax*; or
 - (D) the Statement of Obligations; or
 - (E) the introduction or cessation of a statutory carbon price or tax or a national emissions trading scheme or other scheme relating to the reduction of greenhouse gas emissions.

(b) Exclusions

In considering an *uncertain events application*, the commission will not take into account matters that:

- (i) are or should be within **Central Highlands Water's** control;
- (ii) were or should have been known by **Central Highlands Water** at the time the Determination was made;
- (iii) could reasonably have been foreseen by **Central Highlands Water**;
- (iv) should be or should have been planned for or managed by *Central Highlands Water*, and/or
- (v) reflect inefficient expenditure by **Central Highlands Water**.

(c) Dispute resolution

Any question as to whether a matter should be taken into account by the commission under this clause 4 will be determined by the commission in its absolute discretion.

4.3. Procedure

(a) Application process

- (i) An *uncertain events application* must be accompanied by a statement setting out:
 - (A) the details of each relevant uncertain or unforeseen event;
 - (B) the amount and timing of any increase or decrease in operating and/or capital expenditure associated with the relevant event during the *regulatory period* and/or the amount and timing of any increase or decrease in revenue associated with the relevant event during the *regulatory period*;
 - (C) the basis for calculating the increase or decrease in operating and/or capital expenditure and/or revenue referred to in clause 4.3(a)(i)(B); and
 - (D) details of the proposed action to be taken by the commission under clause 4.3(b).
- (ii) The commission may identify an event or events which it considers has had or may have a material impact on *Central Highlands Water's* operating and/or capital expenditure and/or revenue and may decide to take action under clause 4.3(b) in the absence of an *uncertain events application* by *Central Highlands Water*.
- (iii) The commission may request *Central Highlands Water* to provide any additional information specified by the commission in connection with an *uncertain events application*.

(b) Action by the commission

If the commission is satisfied of the matters set out in clause 4.1(c) in respect of an *uncertain events application* or an event identified by the commission under clause 4.3(a)(ii), the commission may, in its absolute discretion:

- (i) amend this Determination or adjust the scheduled prices in Schedule 2 and/or the revenue requirements in Annexure A with effect from a date and in a manner decided by the commission (in respect of one or more events) at a time decided by the commission; or
- (ii) take the *uncertain events application* into account in making its determination in respect of the prices which *Central Highlands Water* may charge for *prescribed services* in the *next regulatory period*

5. Material error and unintended consequences

Where the commission is satisfied that in any material respect:

- (a) this Determination or any information relied upon in the making of this Determination contains an error, deficiency or miscalculation;
- (b) any information on which this Determination was based was false or misleading in a material respect; or
- (c) such amendment or adjustment is necessary or desirable to avoid an unintended consequence of this Determination,

the commission may decide to amend this Determination and/or specify a price adjustment, provided that it is satisfied that such amendment and/or price adjustment takes into account the interests of customers.

In most cases, an amendment will be undertaken in accordance with the commission's standard consultation process for price determinations, including the issue of a draft decision and an invitation for interested parties to make submissions to the commission in relation to the draft decision, as set out in clause 16(a) and (b) of the WIRO.

In some limited circumstances, the commission may amend this Determination without further consultation, or with only limited consultation. This will be the case where an amendment is not sufficiently material to warrant a full consultation process, or where there is urgency that justifies the commission moving quickly, as set out in clause 16(c) of the WIRO. In these circumstances, the commission will provide its reasons for proceeding with the amendment without consultation (or with a modified consultation process).

Schedule 1 – Definitions and interpretation

A Definitions

business day means a day on which banks are open for general banking business in Melbourne, not being a Saturday or a Sunday.

Code means the applicable Customer Service Code made under the WI Act.

ESC Act means the Essential Services Commission Act 2001 (Vic).

GST has the meaning given in section 195-1 of the *A New Tax System (Goods and Services) Tax Act 1999* (Cth).

miscellaneous services means services that are provided in direct connection with *prescribed services*, prices in respect of which are either included in Schedule 2 or determined in accordance with the relevant pricing principles in Schedule 4.

new contract means any contract for **prescribed services** which is renewed, renegotiated or entered into during the **regulatory period**.

next regulatory period means the period commencing on 1 July 2023 and ending on a date specified by the commission.

prescribed services has the meaning given in the WIRO and includes miscellaneous services.

price submission has the meaning given in the WIRO.

regulated entity has the meaning given in the **WIRO**.

regulatory period means the period commencing on 1 July 2018 and ending on 30 June 2023.

regulatory year means each period of twelve months commencing on 1 July and ending on 30 June.

relevant contract means a contract which relates to the provision of prescribed services.

relevant tax means any tax imposed by or payable directly or indirectly to any government or public authority in the Commonwealth of Australia (including **GS7**) but excluding:

- (a) the licence fees referred to in clause 4.2 of this Determination;
- **(b)** penalties and interest for late payment of any tax; or
- (c) any tax that replaces any of the taxes referred to in (a) and (b), where tax includes any rate, duty, charge or other like or analogous impost.

WI Act means the Water Industry Act 1994 (Vic).

WIRO means the Water Industry Regulatory Order 2014 as at the date of this Determination.

B Interpretation

Headings are for convenience only and do not affect interpretation. The following rules apply unless the context requires otherwise.

- (a) The singular includes the plural, and the converse also applies.
- **(b)** If a word or phrase is defined, its other grammatical forms have a corresponding meaning.
- (c) A reference to a person includes a corporation, trust, partnership, unincorporated body or other entity, whether or not it comprises a separate legal entity.
- (d) A reference to a clause or schedule is a reference to a clause of or schedule to this document.
- (e) A reference to a determination, agreement or document (including a reference to this document) is to the agreement or document as amended, supplemented, novated or replaced, except to the extent prohibited by this document or that other agreement or document.
- (f) A reference to an Act, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them.
- (g) If a period of time is specified and commences on a given day or on a day of an act or event, the period of time is to be calculated inclusive of that day.
- **(h)** Any "notice" to be given or matter to be "notified" must be in writing.
- (i) The symbol 'Σ' requires a summation to be performed over the range of variables specified in respect of the algebraic terms specified.
- (j) All data which is utilised in calculations made under this Determination will be utilised to the accuracy, in terms of the number of decimal places, to which it is given.
- (k) A fixed price, charge or fee determined in accordance with this Determination is to be rounded down and specified to two decimal places.
- (I) A volumetric price, charge or fee determined in accordance with this Determination is to be rounded down and specified to four decimal places.
- (m) When a calculation is required under this document:
 - (i) regulatory year 't' is the regulatory year in respect of which the calculation is being made;
 - (ii) **regulatory year** 't-1' is the **regulatory year** immediately preceding **regulatory year** 't';
 - (iii) **regulatory year** 't-2' is the **regulatory year** immediately preceding **regulatory year** 't-1'.

Schedule 2 – Prices

This schedule should be read in conjunction with Schedule 3, Schedule 4 and Schedule 5. Variable water, sewerage, recycled water and trade waste charges are rounded down to 4 decimal places. All other charges are rounded down to 2 decimal places.

Tariff and Price Component	Price	PPM	PPM	PPM	PPM
	(1 July 2018)	Year 2	Year 3	Year 4	Year 5
1.1 Residential Water Tariff					
Service charge (per annum)	198.83	0.0%	0.0%	0.0%	0.0%
Service charge – vacant (per annum)	99.77	0.0%	0.0%	0.0%	0.0%
Fire services charge (per service)	255.82	0.0%	0.0%	0.0%	0.0%
Usage charge – category 1, (0 to 175kL/a) (per kL)	1.8958	0.0%	0.0%	0.0%	0.0%
Usage charge – category 1, (Over 175kL/a) (per kL)	2.2750	0.0%	0.0%	0.0%	0.0%
Usage charge – category 2, (0 to 175kL/a) (per kL)	0.8706	0.0%	0.0%	0.0%	0.0%
Usage charge – category 2, (Over 175kL/a) (per kL)	1.1306	0.0%	0.0%	0.0%	0.0%
1.2 Non-residential and Concessional Water Tariff					
Service charge (per annum)	198.83	0.0%	0.0%	0.0%	0.0%
Service charge – vacant (per annum)	99.77	0.0%	0.0%	0.0%	0.0%
Usage charge – category 1 volume	1.8958	0.0%	0.0%	0.0%	0.0%
Usage charge – category 2 volume	0.8706	0.0%	0.0%	0.0%	0.0%
1.3 Residential / Non-residential / Concessional Sewerage Tariff					
Sewer service charge (per annum)	756.40	-2.6%	-2.6%	-2.6%	-2.6%
Sewer service charge vacant (per annum)	198.83	-2.6%	-2.6%	-2.6%	-2.6%
Non-residential volume disposal charge (per kL)	1.1090	0.0%	0.0%	0.0%	0.0%
1.4 Trade Waste Charges					
Trade Waste Application Fee (per application)	123.08	0.0%	0.0%	0.0%	0.0%
Major Trade Waste – B.O.D. (per Kg)	1.4589	0.0%	0.0%	0.0%	0.0%
Major Trade Waste – Suspended Solids (per kg)	1.4589	0.0%	0.0%	0.0%	0.0%
Major Trade Waste – Heavy Metals (per kL)	0.3238	0.0%	0.0%	0.0%	0.0%
Major Trade Waste – Heavy Metals Surcharge (including Chromium, Copper, Nickel, Zinc, Silver) (per					
kL)	0.1651	0.0%	0.0%	0.0%	0.0%
Major Trade Waste – Volume (per kL)	0.4212	0.0%	0.0%	0.0%	0.0%

Tariff and Price Component	Price	PPM	PPM	PPM	PPM
	(1 July 2018)	Year 2	Year 3	Year 4	Year 5
Minor A Standard Charge (<500kL pa) (per item)	314.28	0.0%	0.0%	0.0%	0.0%
Minor B Volume Charge (>500 & <5,000kL/a) (per kL)	1.2649	0.0%	0.0%	0.0%	0.0%
Additional sampling, investigations & enforcements	Actual cost				
1.5 New Customer Contributions (per lot)					
Water (per lot)	1,367.16	0.0%	0.0%	0.0%	0.0%
1.6 Miscellaneous Fees and Charges					
Special Meter Reading Fees (per meter read) – includes charging owner / landlord for changes of					
tenancy	28.01	0.0%	0.0%	0.0%	0.0%
Meter cost – 20 mm (per item)	111.90	0.0%	0.0%	0.0%	0.0%
Information Statement (per item)	62.43	0.0%	0.0%	0.0%	0.0%
Plumbing consent fees (per item)	125.92	0.0%	0.0%	0.0%	0.0%
Tapping fees – 20 mm standard (per item)	237.87	0.0%	0.0%	0.0%	0.0%
Non-core miscellaneous services	Actual cost				

As set out in clause 1.1(d) of this Determination, the role of the Commission in making this Determination is limited to specifying the maximum prices that *Central Highlands Water* may charge for *prescribed services* during the *regulatory period*, or the manner in which such prices are to be calculated, determined or otherwise regulated.

It is the role of *Central Highlands Water* to apply a tariff in accordance with the *Water Act 1989* (*Vic*). The Commission does not have a role in hearing disputes about individual billing issues that users may have.

Schedule 3 – Application of prices

3.1 Water tariff categories

Category 1 – Talbot, Waubra, Avoca, Landsborough, Learmonth, Maryborough, Tullaroop, Ballan, Ballarat, Creswick, Daylesford, Blackwood/Barry's Reef, Gordon/Wallace/Bungaree/Mt Egerton, Lexton, Beaufort, Clunes.

Category 2 – Amphitheatre, Redbank, Raglan.

3.2 Non-residential wastewater volume charges

The wastewater volume charge only applies to non-residential properties that discharge greater than 180kL per annum. This is estimated as a percentage of incoming water, having regard to the relevant property classification and appropriate discharge factor.

3.3 Trade waste charges

Trade waste charges for reception, conveying, treatment and disposal are payable by agreement. Where a major trade waste agreement is in place, the wastewater volume fee will not apply.

A major trade waste customer is a customer which discharges either >500 kL per annum of waste or waste that is 'non-compliant' as defined in *Central Highland Water's* 'Criteria for Admission for Trade Wastes' document.3.5 Wastewater charge.

3.4 Inclining block tariffs

Consumption for the inclining block tiers is calculated on an average daily basis for each billing cycle.

Where multiple customers are being serviced by a single meter, the consumption tiers will be applied on a pro-rata basis.

3.5 Miscellaneous fees and charges

The following table sets out the definitions of the miscellaneous fees and charges contained in Schedule 2.

Miscellaneous service	Definition
Plumbing consents	Cost to review/assess and consent to plumbing changes for a property.
Special meter reads	A water meter reading taken by Central Highlands Water (out of billing cycle sequence) when requested by a tenant/owner vacating a property. This reading is used to calculate the final bill amount for the property.
Meter cost – 20mm (per item)	Cost to provide a new water meter.
Meter installation	The cost for <i>Central Highlands Water</i> to review and assess plumbing changes for a property and for property connections to <i>Central Highlands Water</i> water/sewer mains, under Section 148 of the <i>Water Act</i> .
Water tapping fee – standard 20mm	Cost to provide a new connection into <i>Central Highlands Water</i> water mains.
Connection fee	The cost for <i>Central Highlands Water</i> to review and assess plumbing changes for a property and for property connections to <i>Central Highlands Water</i> water / sewer mains, under Section 148 of the <i>Water Act</i> .
Information statement fee	Information statements are certificates issued by <i>Central Highlands Water</i> that provide rate and encumbrance information to solicitors or conveyancers, representing the vendor and purchaser of a property. The solicitors and conveyancers then use the information to prepare statements under Section 32 of the <i>Sale of Land Act</i> and at settlement of the property, to adjust charges between the vendor and purchaser.

Schedule 4 – Pricing principles

4.1 Recycled water pricing principles

Recycled water prices should be set so as to:

- have regard to the price of any substitutes and customers' willingness to pay;
- cover the full cost of providing the service (with the exception of services related to specified obligations or maintaining balance of supply and demand); and
- include a variable component.

Where *Central Highlands Water* does not propose to fully recover the costs associated with recycled water, it must demonstrate to the commission that:

- it has assessed the costs and benefits of pursuing the recycled water project;
- it has clearly identified the basis on which any revenue shortfall is to be recovered; and
- if the revenue shortfall is to be recovered from non-recycled water customers, either the project
 is required under the Statement of Obligations which applies to *Central Highlands Water* or
 pursuant to other government policies that apply to *Central Highlands Water* or there has been
 consultation with the affected customers about their willingness to pay for the benefits of
 increased recycling.

4.2 Pricing principles where scheduled prices do not apply

Where the prices set out in Schedule 2 do not apply because the nature of the service provided to a particular customer (including, in the case of trade waste customers, the volume or load of waste treated) is unique, prices must be set as follows:

- variable prices (including, in the case of trade waste customers, load-based charges) should reflect the long run marginal cost of providing services (including, in the case of trade waste customers, trade waste transfer, treatment and disposal);
- the total revenue received from each customer should be greater than the cost that would be avoided from ceasing to serve that customer, and (subject to meeting avoidable cost) less than the stand alone cost of providing the service to the customer in the most efficient manner;
- the methodology used to allocate common and fixed costs to that customer should be clearly articulated and be consistent with any guidance provided by the commission;
- prices should reflect reasonable assumptions regarding the customer's demand for services (including, in the case of trade waste customers, the volume and strength of trade waste anticipated to be produced by that customer);

- depreciation rates and rates of return used to determine prices should be consistent with those adopted by the commission for the purposes of making this Determination;
- customers should be provided with full details of the manner in which prices have been
 calculated and any new, renewed or renegotiated contractual agreements with customers
 should indicate that the prices to apply are subject to any Determination made by the
 commission;
- where applying these principles results in significant changes to prices or tariff structures, arrangements for phasing in the changes may be considered and any transitional arrangements should be clearly articulated.

4.3 Pricing principles for New Customer Contributions (NCC)

Core pricing principles

NCC, including standard or negotiated NCC, will be calculated by applying the following core NCC pricing principles.

Standard and negotiated NCC will:

- have regard to the incremental infrastructure and associated costs in one or more of the statutory cost categories attributable to a given connection;
- have regard to the incremental future revenues that will be earned from customers at that connection;
- be greater than the avoidable cost of that connection and less than the standalone cost of that connection.

Notes:

- Given that NCC are to be based on the net incremental cost of connection (ie incremental
 costs net of incremental benefits), in this context, the costs referred to in the efficient pricing
 bound are the net costs, specifically the avoidable net cost of connection and standalone net
 cost of connection.
- 2. Where the connection arrangement requires assets to be gifted, the value of gifted assets will be excluded for the purpose of calculating net costs.
- Incremental costs may include financing costs associated with constructing an asset sooner than planned.

Incremental financing costs

Incremental financing costs (IFC) should be calculated using this formula:

IFC =
$$\left(1 - \left[\frac{1}{(1+r)^n}\right]\right) \times \text{cost of capital being provided sooner than planned}$$

where:

- r estimated pre-tax regulatory rate of return.
- **n** the number of years the asset is required sooner than planned.

Gifted Assets

Central Highlands Water can require developers to provide and gift to **Central Highlands Water** specified assets as a condition of connection, provided that **Central Highlands Water**.

- makes clear to potential developers which assets a developer will be responsible for providing and gifting, and which will be provided by *Central Highlands Water*;
- confirms that negotiation of any non-standard connection and associated charges will be undertaken in accordance with *Central Highlands Water's* published negotiating framework; and
- the value of gifted assets will be excluded for the purposes of calculating net costs.

4.4 Pricing principles for miscellaneous services not included in Schedule 2

Prices for miscellaneous services must be set according to actual cost calculated on the basis of the aggregate of:

- · direct third party or contractor invoice cost;
- · direct marginal internal costs, including labour, materials and transport costs; and
- a fair contribution to overheads.

For bank dishonour, debt collection and legal fees, the third party costs must be charged directly to the customer with no contribution for internal costs or a contribution to overheads.

4.5 Guidelines

Central Highlands Water must comply with any guidelines issued by the commission from time to time which relate to the setting of prices for **prescribed services** to which Schedule 4 relates.

Schedule 5 – Adjustment for costs associated with annual updates to the trailing average cost of debt

If in any *regulatory year* Condition A applies, the formula set out in clause 2.3(b) is not applicable to the extent it relates to the prices outlined in Schedule 5A. These prices are set out in items 1.1 and 1.2 of Schedule 2.

Instead the prices above will be adjusted in accordance with the formulas (as applicable) provided below, with effect from the beginning of each subsequent *regulatory year* in the *regulatory period*.

Central Highlands Water must comply with any guidance issued by the commission from time to time which relate to the setting of prices for **prescribed services** to which Schedule 2 and 4 relates.

Schedule 5A – Adjustments to prices

	Condition A (Annual cost of debt update)
1.1 Residential water tariff Service charge	X
1.1 Residential water tariff Service charge – vacant land	X
1.2 Non-residential water tariff Service charge	X
1.2 Non-residential water tariff Service charge – vacant land	X

Schedule 5B - Prices

Condition A - Annual cost of debt update

Condition A will apply when the trailing average cost of debt in any *regulatory year* 't' changes in that year. The adjustment is calculated as per formula 4.

The difference in the forecast and actual regulatory rate of return in any *regulatory year* 't' is multiplied by the average of the regulatory asset base (RAB) to determine the change in

Central Highlands Water's total expected return. The RAB is set out in Table 5 of Annexure A.

The trailing average cost of debt adjustment will be apportioned across the tariffs listed in Schedule 5A.

Formula 1: Determining the nominal cost of debt

$$CoD_t^{nominal} = \sum_{i=t-10}^{t-1} \frac{CoD_i^{nominal}}{10}$$

 $CoD_t^{nominal}$

Is equal to the simple average of the 10 years up to (but not inclusive of) **regulatory year** 't' of:

- The data series outlined in Table 1 of Annexure A and
- RBA Table F3 Non-financial corporate BBB-rated bonds Yield 10 year target tenor [Series ID FNFYBBB10M]

from 1 April to 31 March before the start of *regulatory year* 't' (e.g. 1 April 2017 to 31 March 2018 in relation to 2018-19)

Formula 2: Determining the real cost of debt

$$CoD_t^{real} = \frac{(1 + CoD_t^{nominal})}{(1 + \pi^{det})} - 1$$

 π^{det}

Is the inflation factor which is equal to 2.3% for all regulatory years

Formula 2 outlines the process for converting the trailing average cost of debt from nominal to real using the Fisher equation.

Formula 3: Determining the real regulatory rate of return

$$RRR_t^{real} = 0.4 \times CoE_t^{real} + 0.6 \times CoD_t^{real}$$

 RRR_t^{real}

Is the post-tax 'vanilla' regulatory rate of return in real terms for *regulatory year* 't' rounded to two decimal places, i.e. 4.347% is rounded to 4.35%

 CoE_t^{real} Is the real cost of equity determined through **Central Highlands Water**'s PREMO rating, which is equal to 4.9% for 2018-19 to 2022-23

Formula 4: Trailing average cost of debt adjustment

$CDA_t^j = (RRR$	${^{act}_{t} - RRR^{det}_{t}) \times \left(\frac{RAB^{det}_{opening,t} + RAB^{det}_{closing,t}}{2}\right) \times \frac{CPI_{t}}{CPI_{base}} \times \frac{\alpha^{j}_{t} \times q^{det}_{j,t}}{\sum^{t=t}_{j=1,n}(\alpha^{j}_{t} \times q^{det}_{j,t})} \times \frac{1}{q^{det}_{j,t}}}$
CDA_t^j	Is the trailing average cost of debt adjustment applied proportionally to tariff j, based on tariff j's relative share of total revenues. Total revenues refer to the sum of all revenue received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply
RRR_t^{act}	Is the actual calculated real post tax 'vanilla' regulatory rate of return in regulatory year 't'
RRR_t^{det}	Is the determination real post tax 'vanilla' regulatory rate of return in regulatory year 't'
$RAB_{opening,t}^{det}$	Is the determination opening regulatory asset base in regulatory year 't'
$RAB_{closing,t}^{det}$	Is the determination closing regulatory asset base in regulatory year 't'
CPI_t	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter immediately preceding the start of the relevant regulatory year
CPI_{base}	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter in year 2017 equal to 110.5
$lpha_t^j$	Is the price for tariff j at <i>regulatory year</i> 't' before the cost of debt adjustment where:
	$\alpha_t^j = p_{t-1}^j \times \frac{CPI_t}{CPI_{t-1}} \times \left(1 + PPM_t^j\right)$
p_{t-1}^j	Is the price for tariff j in <i>regulatory year</i> 't-1'
$q_{j,t}^{det}$	Is the determination quantity for tariff j in <i>regulatory year</i> 't'

$$\sum_{j=1,n}^{t=t} (\alpha_t^j \times q_{j,t}^{det}) \quad \text{ls the sum of all revenue received across the tariffs listed in Schedule 5A} \\ \text{to which the cost of debt adjustment will apply}$$

Formula 4 outlines the process for calculating the adjustment to prices outlined in Schedule 5A to reflect the new cost of debt. This is done in two steps. The first step is to calculate the change in the revenue requirement by multiplying the adjustment to the rate of return, to reflect the updated cost of debt, by the average regulatory asset base.

The second step is to apply the change in the revenue requirement proportionally to tariff j, based on tariff j's relative share of total revenues. Total revenues are defined as the sum of all revenues received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply.

Formula 5: Schedule 5A tariffs

$$p_t^{j,COD} = p_{t-1}^j \times \frac{CPI_t}{CPI_{t-1}} \times \left(1 + PPM_t^j\right) + CDA_t^j$$

$p_t^{j,COD}$	Is the price for tariff j at <i>regulatory year</i> 't' that accounts for the cost of debt adjustment. The cost of debt adjustment will apply to the tariffs listed in Schedule 5A
p_{t-1}^j	Is the price for tariff j in <i>regulatory year</i> 't-1'
CPI_t	Is the Consumer Price Index: All Groups Index for the Eight Capital Cities as published by the Australian Bureau of Statistics (6401.0 - Table 8) for the March Quarter immediately preceding the start of the relevant <i>regulatory year</i>
PPM_t^j	The prescribed price movement for the price component for tariff j in <i>regulatory year</i> 't' as per the determination
CDA_t^j	Is the trailing average cost of debt adjustment applied proportionally to tariff j, based on tariff j's relative share of total revenues as outlined in formula 4. Total revenues refer to the sum of all revenue received across the tariffs listed in Schedule 5A to which the cost of debt adjustment will apply.

The Common Seal of the Essential Services Commission was affixed to this Determination with the authority of the commission.



Date: 19 June, 2018

Dr Ron Ben-David

Chairperson

Annexure A

Table 1 Historical cost of debt (nominal)

Per cent

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Cost of debt	6.92%	7.36%	7.05%	6.31%	5.27%	7.05%	5.36%	5.27%	4.91%	4.53%

 Table 2
 Forecast real regulatory rate of return

Per cent

	2018-19	2019-20	2020-21	2021-22	2022-23
Regulatory rate of return	4.13%	4.13%	4.13%	4.13%	4.13%

 Table 3
 Benchmark revenue requirement

\$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23
Operating expenditure	57.1	56.6	55.8	55.6	55.6
Return on assets	14.3	14.7	15.1	15.4	15.5
Regulatory depreciation	16.2	17.0	17.4	18.0	18.3
Adjustments from last period	0.0	0.0	0.0	0.0	0.0
Non-prescribed revenue offset of revenue requirement	0.0	0.0	0.0	0.0	0.0
Tax allowance	0.0	0.0	0.0	0.0	0.0
Total	87.6	88.3	88.3	89.0	89.4

Table 4 Updated regulatory asset base \$m 2017-18

	2012-13	2013-14	2014-15	2015-16	2016-17
Opening RAB at 1 July	319.2	321.6	322.0	324.7	328.7
Plus Gross capital expenditure	17.0	16.8	20.8	22.0	23.1
Less Government contributions	2.2	0.8	0.8	2.2	0.5
Less Customer contributions	2.3	1.9	1.9	1.4	1.4
Less Proceeds from disposals	0.2	0.2	1.5	0.2	0.5
Less Regulatory depreciation	10.0	13.5	13.9	14.2	14.6
Closing RAB at 30 June	321.6	322.0	324.7	328.7	335.0

Table 5 Rolled forward regulatory asset base \$m 2017-18

	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Opening RAB at 1 July	335.0	342.2	351.4	362.5	369.5	374.9
Plus Gross capital expenditure	24.1	27.2	29.9	26.2	25.4	21.2
Less Government contributions	0.0	0.0	0.0	0.0	0.0	0.0
Less Customer contributions	1.4	1.5	1.6	1.6	1.7	1.7
Less Proceeds from disposals	0.4	0.3	0.3	0.3	0.3	0.3
Less Regulatory depreciation	15.0	16.2	17.0	17.4	18.0	18.3
Closing RAB at 30 June	342.2	351.4	362.5	369.5	374.9	375.8

Table 6 Approved licence fee and environmental contribution assumptions \$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23
Essential Services Commission licence fee	0.05	0.05	0.05	0.05	0.08
Department of Health and Human Services licence fee	0.03	0.03	0.03	0.03	0.03
Environment Protection Authority licence fee	0.19	0.19	0.19	0.19	0.19
Environmental contribution	3.89	3.81	3.72	3.64	3.55

Table 7 Bulk water purchases \$m 2017-18

	2018-19	2019-20	2020-21	2021-22	2022-23
Bulk water purchases	0.78	0.78	0.78	0.78	0.78

 Table 8
 Demand forecast

	2018-19	2019-20	2020-21	2021-22	2022-23		
Water assessments (no.)							
Total	69,899	71,021	72,163	73,355	74,600		
Sewerage assessments (no.)							
Total	60,251	61,218	62,202	63,229	64,303		
Billable water consumption (ML)							
Residential	9,415	9,529	9,700	9,827	9,943		
Non-residential	4,063	4,081	4,110	4,132	4,151		
Total	13,478	13,611	13,811	13,959	14,094		

Table 9 Major capital projects

Projects	Expected start date	Expected completion date
Ballarat South wastewater treatment plant lagoon pipeline upgrade	In progress	2018-19
Evansford raw water pipeline renewal	In progress	2018-19
Fellmongers siphon replacement	In progress	2019-20
Daylesford water supply upgrade	In progress	2020-21
Ballarat South wastewater treatment plant inlet works upgrade	2018-19	2020-21
Ballan wastewater treatment plant – increase in recycled water winter storage capacity	In progress	2020-21
Maryborough wastewater reuse scheme improvements	2019-20	2020-21
Ballarat South outfall sewer duplication	In progress	2022-23
Ballarat East sewer duplication and flow storage	2019-20	2022-23
Ring Road trunk water main duplication	2018-19	2022-23