



AUSTRALIAN COMPETITION
& CONSUMER COMMISSION

ACCC Water Monitoring Report 2016–17

Monitoring approach and assumptions

This document accompanies the Australian Competition and Consumer Commission (ACCC) Water Monitoring Report 2016–17. It sets out the ACCC's approach to monitoring, assumptions used for the calculation of hypothetical bill analysis provided in the report, and additional information.

May 2018



Cover photo: Rice crops in the Carathool area, New South Wales
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Australian Competition and Consumer Commission

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List of abbreviations

ABARES	Australian Bureau of Agricultural and Resource Economics and Sciences
ABC	Australian Broadcasting Corporation
ACCC	Australian Competition and Consumer Commission
BPWTR	Basin Plan Water Trading Rules
BRC	Dumaresq-Barwon Border Rivers Commission
CEWH	Commonwealth environmental water holder
CCA	<i>Competition and Consumer Act 2010</i> (Cth)
CICL	Coleambally Irrigation Cooperative Limited
CIT	Central Irrigation Trust
CPI	consumer price index
DELWP	Victorian Department of Environment, Land, Water and Planning
DEWNR	South Australian Department of Environment, Water & Natural Resources
DNRM	Queensland Department of Natural Resources and Mines (DNRME since December 2017)
DNRME	Queensland Department of Natural Resources, Mines & Energy
DPI Water	NSW Department of Primary Industries (Water)
EPD	ACT Environmental Planning Directorate
EPSDD	ACT Environment, Planning and Sustainable Development Directorate
ESCV	Essential Services Commission (Victoria)
EWH	environmental water holder
GL	gigalitre (one billion litres)
GMW	Goulburn-Murray Water
GS	general security
GWMWater	Grampians Wimmera Mallee Water
HP	high pressure
HPID	Hay Private Irrigation District

HRWS	high reliability water shares
HS	high security
ICD	irrigation corporation and district
IHS	Integrated horticulture supply
IIO	irrigation infrastructure operator
IPART	Independent Pricing and Regulatory Tribunal (NSW)
IR	irrigation right
JIL	Jemalong Irrigation Limited
JWSS	Joint Water Supply Scheme
KL	kilolitres (one thousand litres)
LAS	large area supply
LAW	large area supply Wah Wah excluding IHS
LMW	Lower Murray Water
LP	low pressure
LPI	Land and Property Information, now Land Registry Services
LRWS	low reliability water shares
LTAAY	long term average annual yield
MDB	Murray–Darling Basin
MDBA	Murray–Darling Basin Authority
MI	Murrumbidgee Irrigation Limited
MIL	Murray Irrigation Limited
MJA	Marsden Jacob Associates
ML	Megalitre (one million litres)
MP	medium pressure
MPID	Moira Private Irrigation District
NIBM	Narromine Irrigation Board of Management
NVIRP	Northern Victoria Irrigation Renewal Project
NWC	National Water Commission

NWI	National Water Initiative
off-river IO	off-river infrastructure operator
on-river IO	on-river infrastructure operator
PIIOP	Private Irrigation Infrastructure Operators Program (NSW)
QCA	Queensland Competition Authority
RFI	request for information
RIT	Renmark Irrigation Trust
SAMDB	South Australia Murray–Darling Basin
SAS	small area supplies
SDL	sustainable diversion limit
TNAC	total network access charge
VEWH	Victorian Environmental Water Holder
VWAP	Volume weighted average price
VWR	Victorian Water Register
WA	water allocation
WAE	water access entitlement
WAR	water access right
WC	West Corurgan
WCIR	Water Charge (Infrastructure) Rules 2010
WCPMIR	Water Charge (Planning and Management Information) Rules 2010
WCTFR	Water Charge (Termination Fees) Rules 2009
WDR	water delivery right
WIRO	Water Industry Regulatory Order
WMI	Western Murray Irrigation Limited
WMR	Water Market Rules 2009
WPM	water planning and management

Glossary

Basin Plan	A high level framework on which the Australian Government and Basin States agreed, and that sets standards for the management of the Murray–Darling Basin’s water resources in a coordinated and sustainable way in collaboration with the community. Officially known as the Basin Plan 2012
Basin Plan Water Trading Rules (BPWTR)	The rules set out in Part 12 of the Basin Plan—these rules relate to the trade or transfer of tradeable water rights. The rules commenced on 1 July 2014 and are enforced by the Murray-Darling Basin Authority
Basin State/s	New South Wales, Victoria, Queensland, South Australia, or the Australian Capital Territory
Basin state agencies	Basin State departments and water authorities
bulk water charge	a charge payable for either or both the storage of water for, or the delivery of water to: <ul style="list-style-type: none">(i) infrastructure operators(ii) other operators of reticulated water systems(i) (iii) other persons (including private diverters and environmental water holders)
carryover	Arrangements which allow water entitlement holders to hold allocated water in storages so that it is available in subsequent years
exit fee	A fee levied by an irrigation infrastructure operator on the transfer of a water entitlement out of the operator’s network or irrigation district (excluding any fee associated with the costs of processing that transfer)
infrastructure charge	Charges infrastructure operators impose for access to their water service infrastructure and services provided in relation to that access
infrastructure operator	Any person or entity who owns or operates infrastructure for one or more of the following purposes: <ul style="list-style-type: none">(i) the storage of water(ii) the delivery of water(iii) the drainage of water for the purpose of providing a service to someone who does not own or operate the infrastructure

irrigation infrastructure operator	An infrastructure operator who owns or operates water service infrastructure for the purpose of delivering water for the primary purpose of being used for irrigation
irrigation network	As defined in s. 7(4) of the Act as the water service infrastructure of an irrigation infrastructure operator—in practice, irrigation networks typically constitute a network of carriers (open channels, pipes and/or natural waterways) used to convey water from a water source through customer service points to customer properties—an irrigation network may be either a gravity-fed network (typically using channels and/or natural waterways) or a pressurised network (using pipes)
irrigation right	A right that a person has against an IIO to receive water which is not a water access right or a water delivery right—an irrigation right can usually be transformed into a water access entitlement
infrastructure service	Access, or a service provided in relation to access, to water service infrastructure and includes the storage, delivery, drainage and taking of water
non-volumetric charge	A charge that does not reference a volume of a water right, for example, a charge which is levied per account, per outlet or per meter
off-river infrastructure service / off-river infrastructure operator	The storage, delivery and/or drainage of water diverted from a natural watercourse through a network consisting of channels and/or pipes (which can be gravity fed or pressurised) to another person. An operator providing such services is an off-river infrastructure operator
on-river infrastructure service / on-river infrastructure operator	Harvesting and storing water through infrastructure such as dams, lakes, weirs and reservoirs located primarily on a natural watercourse, and delivering water, primarily through natural watercourses. An operator providing such services is an on-river infrastructure operator.
person	Includes a legal person (e.g. a company, body corporate etc.)
private diverter	An irrigator that extracts water directly from a natural watercourse (either a regulated or unregulated river)

regulated water charge	<p>A water charge to which any of these three sets of water charge rules applies:</p> <p>Water Charge (Infrastructure) Rules</p> <p>Water Charge (Planning and Management Information) Rules</p> <p>Water Charge (Termination Fees) Rules</p> <p>See s. 91 of the Act for a full definition</p>
termination	<p>When a person terminates or surrenders the whole or part of a right of access to the IIO's network, typically by terminating water delivery right</p>
termination fee	<p>A fee that an IIO may impose when an irrigator terminates</p>
the Act	<p><i>Water Act 2007 (Cth)</i></p>
total network access charge (TNAC)	<p>Amount on which the termination fee multiple is applied to calculate a maximum termination fee. It is the sum of all amounts that would have been payable for access to an operator's irrigation network by an irrigator for a full financial year if termination or surrender had not occurred, excluding:</p> <ul style="list-style-type: none"> • any amount for the amount of water actually delivered to the terminating irrigator (that is, variable irrigation network charges) • any amount for the storage of water • connection/disconnection fees • any amount that exceeds the cost of providing irrigators with access to an operator's irrigation network • fees under ACCC approved contracts.
tradeable water right	<p>One of:</p> <p>(i) water access rights</p> <p>(ii) water delivery rights</p> <p>(iii) irrigation rights</p>
transformation	<p>Process by which an irrigator permanently transforms their entitlement to water under an irrigation right against an IIO into a water access entitlement held by the irrigator (or anybody else other than the IIO), thereby reducing the volume (e.g. share component) of the operator's water access entitlement</p>

volumetric charge	Charge imposed based on the volume of a water right or physical amount of water. A fixed volumetric charge is a charge based on the volume of a water right held, while a variable volumetric charge is a charge based on the volume of the right that is utilised in a particular manner
water access entitlement	Perpetual or ongoing entitlement, by or under a law of a state, to exclusive access to a share of the water resources of a water resource plan area
water access entitlement trade	Change of ownership and/or location of a water access entitlement (including through the establishment of a tagging arrangement)
water access right	Any right conferred by or under a law of a state to hold and/or take water from a water resource, and includes: <ul style="list-style-type: none"> • stock and domestic rights • riparian rights • a water access entitlement • a water allocation
water allocation	Specific volume of water allocated to water access entitlements in a given water accounting period
water allocation trade	Change of ownership and/or location of a particular volume of water allocation
watercourse	A river, creek or other natural watercourse (whether modified or not) in which water is contained or flows (whether permanently or intermittently) and includes: <ul style="list-style-type: none"> (i) a dam or reservoir that collects water flowing in a watercourse (ii) a lake or wetland through which water flows (iii) a channel into which the water of a watercourse has been diverted (iv) part of a watercourse (iv) an estuary through which water flows
Water Charge (Infrastructure) Rules 2010 (WCIR)	Rules for fees and charges payable to an infrastructure operator for: <ul style="list-style-type: none"> • bulk water charges • access to the IIO's network, or services provided in relation to that access • matters specified in regulations made under s. 91(1)(d) of the <i>Water Act 2007</i>

Water Charge (Planning and Management Information) Rules 2010 (WCPMIR)	Rules relating to charges for water planning and water management activities in the Murray–Darling Basin and requiring the publication of information on the details of the charge and the process for determining the charge
Water Charge (Termination Fees) Rules 2009 (WCTFR)	R rules for fees or charges payable to an IIO in relation to terminating access to an operator’s irrigation network (or services relating to such termination), or surrendering a right to delivery of water through the operator’s irrigation network
water delivery right (WDR)	a right to have water delivered by an infrastructure operator—a water delivery right typically represents the holder’s right of access to an irrigation network (there may also be a right to drainage), and can be terminated
Water Market Rules 2009 (WMR)	rules dealing with actions or omissions of an IIO that prevent or unreasonably delay transformation arrangements or trade of the resulting water access entitlement
water service infrastructure	<p>infrastructure for one or more of the following purposes:</p> <ul style="list-style-type: none"> (i) the storage of water (ii) the delivery of water (iii) the drainage of water <p>for the purpose of providing a service to another person</p>

1. Reporting entities

The table below lists all reporting entities and the request for information (RFI) formats provided to each entity.

Table 1.1: Entities reporting to the ACCC

Reporting entity	Type of information request			
	Small off-river IO	Off-river IO	On-river IO	Water planning and management
Bakes Irrigators Association Inc (NSW): Bakes		✓		
Barossa Infrastructure Limited (SA): Barossa		✓		
Buddah Lake Irrigators' Association (NSW): Buddah Lake		✓		
Central Irrigation Trust (SA): CIT		✓		
Coleambally Irrigation Co-operative Limited (NSW): Coleambally		✓		
Coliban Water (Vic): Coliban		✓		✓
Creeks Pipeline Company Ltd (SA): Creeks		✓		
Department of Environment, Land, Water and Planning (Vic): DELWP				✓
Department of Environment, Water & Natural Resources (SA): DEWNR ¹				✓
Department of Natural Resources, Mines and Energy (Qld): DNRME ²				✓
Department of Primary Industries—Water (NSW): DPI Water ³				✓
Eagle Creek Pumping Syndicate (NSW): Eagle Creek		✓		
Environment & Planning Directorate (ACT): ACT EPD ⁴				✓

¹ DEWNR is now known as the Department of Natural Resources, Mines and Energy.

² Department changed name to the Department of Natural Resources, Mines and Energy (DNRME) in December 2017

³ DPI's water management functions transferred to the Department of Industry – Water in November 2017.

⁴ ACT EPD is now known as the Environment, Planning and Sustainable Development Directorate.

Reporting entity	Type of information request			
	Small off-river IO	Off-river IO	On-river IO	Water planning and management
Goulburn–Murray Water (Vic): GMW		✓	✓	✓
Grampians Wimmera Mallee Water (Vic): GWMW			✓	✓
Hay Private Irrigation District (NSW): Hay		✓		
Jemalong Irrigation Limited (NSW): Jemalong		✓		
Lower Murray Water (Vic): LMW		✓	✓	✓
Marthaguy Irrigation Scheme (NSW): Marthaguy		✓		
Moira Private Irrigation District (NSW): Moira		✓		
Murray Irrigation Limited (NSW): Murray		✓		
Murrumbidgee Irrigation Limited (NSW): Murrumbidgee		✓		
Narromine Irrigation Board of Management (NSW): Narromine		✓		
Renmark Irrigation Trust (SA): RIT		✓		
WaterNSW (NSW): WaterNSW			✓	
SunWater (Qld): SunWater		✓	✓	
Tenandra Irrigation Scheme (NSW): Tenandra		✓		
Trangie–Nevertire Irrigation Scheme (NSW): Trangie		✓		
West Corurgan Private Irrigation District (NSW): West Corurgan		✓		
Western Murray Irrigation (NSW): WMI		✓		
Bringan Private Irrigation Trust (NSW)	✓			
Bullatale Private Irrigation Trust (NSW)	✓			
Bungunyah–Koraleigh Irrigation Trust (NSW)	✓			
Cadell Constructions (NSW)	✓			

Reporting entity	Type of information request			
	Small off-river IO	Off-river IO	On-river IO	Water planning and management
Glenview Private Irrigation Trust (NSW)	✓			
Goodnight Private Irrigation Trust (NSW)	✓			
Pomona Water (NSW)	✓			
West Cadell Private Irrigation Trust (NSW)	✓			

We ask small off-river IOs for information but largely do not report on their charges

We collect, but do not report information from a number of off-river IOs holding or servicing 10 GL or less. We use this information to assess compliance with the Rules (see chapter 7 of the *Water Monitoring Report 2016-17* for more information).⁵ These small off-river IOs are generally located in NSW along the Murray River. They typically manage joint private works, have a small customer base and use a mixture of fixed and variable charges to recover their costs.

Box 1.1: A selection of smaller off-river infrastructure operators

Table 1.1: Small operator characteristics

Off river IO	Upgrade or restructure in 2016-17	Vol. WAE held by operator (ML)	Total volume delivered by operator in 2016-17	Total vol. transformed in 2016-17 (ML)	Total vol. terminated in 2016-17 (ML)
Bungunyah-Koraleigh	No	HS: 1 655 GS: 336	814	98	69
Bringan	No	3 868	2 801	-	150 ^a
Glenview	No	619	65	-	-
Goodnight	Yes	1 083	772	282	-
Pomona	No	HS: 2 597 GS: 564	187	597	629

Source: ACCC from data provided and published by off-river IOs

a. Initially this was described as a transformation by the Bringan Private Irrigation Trust, then it was a termination

⁵ <https://www.accc.gov.au/regulated-infrastructure/water/water-monitoring-reporting#water-monitoring-reports>

Some Infrastructure Operators perform multiple roles

Three of the infrastructure operators featured in this monitoring report provide *both* on-river and off-river infrastructure services (LMW, GMW and SunWater). These infrastructure operators act as vertically integrated operators and are not solely on-river IOs or an off-river IOs. When reporting on these operators, we distinguish between their operation as an on-river IO and their operation as an off-river IO. This approach allows for comparison with other entities that provide comparable services but are not vertically integrated.

Infrastructure Operators are required to provide, and sometimes to publish, their schedule of charges

We obtain information about water charges primarily through IOs' and Basin States' 'schedules of charges' or other information that must be published under the Rules. All IOs must provide their schedule of charges to their customers. IOs providing services for greater than 15GL of managed water resources must also publish their schedule of charges. We have published copies of the 2016–17 schedules of charges for the IOs we report on in our *Water monitoring report 2016–17* in this document.

The level of information provided in schedules of charges can vary considerably across operators, depending on the size of operations, the range of services provided and the complexity of charging arrangements. For example, GMW, the second largest operator in the MBD, has a very complex schedule of charges with many different types of charges across many different charging districts/areas.⁶ Its schedule of charges covers both its on-river IO customers and its off-river IO customers. In contrast, Buddah Lake, a relatively small infrastructure operator, only lists a single variable charge ('water charge') and a single fixed charge ('operation and maintenance fee') on its schedule of charges.⁷

Differences in the complexity of the services provided is a key reason why the level of information provision differs. However, in some cases operators' schedules of charges lack transparency about elements of charges that may be important to customers, for example:

- The extent to which the schedule of charges distinguishes between the operator's own charges to recover costs of managing and operating its infrastructure versus charges levied to 'pass through' costs of on-river infrastructure charges or WPM charges that operators incur on behalf of customers.
- The relationship between charges and particular tradeable water rights. For example, some schedules of charges clearly specify that a certain fixed charge is levied 'per ML of WDR', whereas others only specify 'per ML'. In the latter case, a customer may not have certainty about how the charge is levied or which tradeable water right the charge relates to.⁸
- Where an operator provides multiple services with different associated charges, the nature of the services (including who is eligible for the services and the circumstances in which a charge will be imposed) may not be clear.
- Transaction-based charges such as charges for trade of tradeable water rights, transformation, and the basis for calculating termination fees (or the TNAC) may not always be clearly listed on the operator's schedule of charges. In some cases, information on these types of charges may not be required to be included on the

⁶ See section 3.3.3.

⁷ See section 3.3.15.

⁸ If a customer holds the same volume of WDR as their IR then the lack of clarity in the schedule of charges may have little impact. However, to the extent that a customer's holdings of WDR/IR differ (or the customer is contemplating undertaking a trade, termination or transformation that would result in such a difference), the lack of clarity in the schedule of charges can provide an incomplete and potentially misleading impression.

operator's schedule of charges and may be provided in a separate document (such as with fees applying to trade of tradeable water rights), but this may not be clear to customers. In other cases, information about the amount of a particular charge may depend on a customer's individual circumstances and may not be available unless and until a customer takes a particular action. This may be the case in relation to termination fees.

- The schedule may not clearly specify the dates from when and for which the charges apply.

In our 2016 advice to the Minister on the review of the water charge rules, we recommended changes to improve pricing transparency by more clearly specifying the requirements for information to be included on schedules of charges.⁹

⁹ See sections 5.4.1 to 5.4.3 (rule advices 5-E to 5-K), 5.13 (rule advices 5-Y, 5-Z), 6.2.1 (rule advice 6-D) and 7.3 (rule advice 7-B).

2. Water planning and management charges and costs

This section relates to the analysis presented in chapter 3 of the Water Monitoring Report 2016–17 which covers water planning and management (WPM)).

Basin State departments and water authorities undertake WPM activities. Charges to recover costs associated with these activities are imposed on water users by Basin State departments and water authorities.

This section sets out the assumptions and background information for chapter 3 and for discussion of water trade charges in Chapter 6 and includes for 2016–17:

- **the ACCC approach to monitoring WPM activities and regulated WPM charges of Basin States**
- **an explanation of which entity is responsible for levying WPM charges in a Basin State and which entities undertake WPM activities**
- **the WPM charges imposed by these entities, including relevant schedules of charges**
- **the approach of Basin State Departments and water authorities to the reporting of WPM activities and the regulated WPM charges that relate to those activities in the Basin.**

2.1 ACCC approach to monitoring WPM activities and charges

The ACCC sent its 2016–17 request for information (RFI) to five Basin State departments and four water authorities responsible for publishing information under the Water Charge (Planning and Management Information) Rules 2010 (WCPMIR).

These RFIs sought information on the amount of regulated WPM charges, the number of times these charges were imposed, which WPM activities were undertaken and the associated costs. The ACCC collected information on WPM charges from information published by Basin State departments and water authorities where this was publically available to reduce the regulatory burden on these entities.

Information from the 2016-17 RFIs was used to estimate the extent of cost recovery for Basin States' WPM activities in the Murray–Darling Basin (MDB). The ACCC received the following information from the Basin State departments and water authorities:

- data on all WPM charges and the quantity (either the number of times or the number of kL or ML) on which the charge was imposed
- cost data for WPM activities undertaken in Victoria, SA and NSW and the ACT.

Queensland continued to maintain its position, as in past years, that it was unable to provide cost data, noting that its charges were not cost reflective and that its WPM costs were almost exclusively funded from consolidated revenue.¹⁰

Under section 91(2) and 91(3) of the *Water Act 2007* (the Act), regulated charges are those charges that relate to MDB resources, infrastructure carrying MDB water resources or water

¹⁰ James Purtil (Director-General, Department of Natural Resources Management), Letter relating to Water Monitoring Information Request 2015–16, 29 November 2016.

access rights, irrigation rights or water delivery rights in relation to MDB water resources. However, the definition does not extend to charges for urban water supply activities beyond the point at which the water has been removed from a Basin water resource.¹¹ As such, the Act does not regulate water resources that are either outside the MDB or which relate to urban water supply. The WCPMIR do not apply in these circumstances.

However, apart for South Australia, the RFI responses did not disaggregate information about:

- whether the WPM charges or activities relate to water resources outside the MDB or
- whether the WPM charges or activities relate to urban water supply activities.

Reasons for this include:

- the same WPM charges often apply to areas both within and outside the MDB
- it is often difficult to attribute a WPM activity to an MDB and a non-MDB water source or differentiate between a rural and urban water supply activity. For example, WPM expenditure on water quality analysis is likely to benefit both urban and rural water users.

2.2 WPM Charges

Basin State Departments and water authorities partially recover for their WPM activities through charges. This section sets out:

- the entities that undertake these WPM activities
- which activities these entities charge for, including trade application fees.

2.2.1 Queensland

Most WPM activities are carried out by the Department of Natural Resources, Mines and Energy (DNRME). Additionally, SunWater also undertakes some of these activities as part of its water licence conditions.

For the reporting period, regulated WPM charges were determined by the Queensland Government as per Schedules 14, 15A and 16 of the Water Regulations 2002 made under the *Water Act 2000* (Qld) :

- Schedule 14 covers water harvesting charges applying throughout Queensland (i.e. including MDB and non-MDB areas)¹²
- Schedule 15A covers meter-related charges (separated into MDB and non-MDB areas)
- Schedule 16 covers charges for various applications, lodgement and other miscellaneous fees including: fees to amalgamate or subdivide water allocations¹³; a fee to create separate titles for water allocations; a water licence application fee; a fee to lodge in the registry an instrument that changes ownership of a water allocation or an interest in a water allocation and search fees.

In 2016, the Queensland Government repealed the Water Regulations 2002 and introduced the *Water Regulations 2016* (QLD) resulting in changes to its WPM charges. We will report on those changes in our next report. The regulated charges for WPM activities in Queensland for 2016-17 are set out below.

11 s91(3) of the Act.

12 Schedule 14 also sets out on-river infrastructure charges in the Lower Balonne Water Management Area (an area which is in the MDB).

13 Note: in Queensland, the term 'water allocation' refers to a water access entitlement. See Table 2.1 in main report for further explanation of Basin State terminology.

Water Regulation 2002 (Qld)—Schedule 14—Water harvesting charges¹⁴

Column 1	Column 2	Column 3
Water management area	Date water year ends	Water charges
Barker–Barambah Creeks water management area	30 June	Water harvesting—\$4.30 for each megalitre
Barron River–Emerald Creek water management area	30 June	Water harvesting— (a) from Tinaroo Falls Dam or Barron River—\$4.30 for each megalitre (b) from Emerald Creek above AMTD 14.300—\$4.30 for each megalitre (c) from any other watercourse—\$4.30 for each megalitre
Border Rivers water management area	30 June	Water harvesting—\$4.30 for each megalitre
Bowen–Broken Rivers water management area	30 June	Water harvesting—\$4.30 for each megalitre
Boyne and Stuart Rivers water management area	30 June	Water harvesting—\$4.30 for each megalitre
Central Lockyer water management area	30 June	Water harvesting—\$4.30 for each megalitre

Current as at 1 July 2016

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14 The regulated charge in the Dumaresq River Water Management Area is an on-river access charge (that is, it is not a WPM charge).

Schedule 14

Column 1	Column 2	Column 3
Water management area	Date water year ends	Water charges
Chinchilla Weir water management area	31 August	Water harvesting—\$4.30 for each megalitre
Dawson Valley water management area	30 September	Water harvesting from zone Dawson B to M as identified in the Fitzroy Basin Resource Operations Plan, attachment 5—\$4.30 for each megalitre
Dumaresq River water management area	30 June	Water from a watercourse flowing from Glenlyon Dam— (a) part A—\$10.75 (b) part B—\$13.20
Fitzroy water management area	30 June	Water harvesting from zone Fitzroy A as identified in the Fitzroy Basin Resource Operations Plan, attachment 2.3—\$4.30 for each megalitre
Logan River water management area	30 June	Water harvesting from Burnett Creek or Logan River—\$4.30 for each megalitre

Column 1	Column 2	Column 3
Water management area	Date water year ends	Water charges
Lower Balonne water management area	30 June	Water harvesting— (a) from a supplemented section of the Thuraggi watercourse or Thuraggi diversion channel—\$4.30 for each megalitre (b) from Beardmore Dam or from any watercourse downstream of Beardmore Dam to the Queensland/New South Wales border—\$4.30 for each megalitre
Lower Burnett and Kolan Rivers water management area	30 June	Water harvesting—\$4.30 for each megalitre
Lower Lockyer water management area	30 April	Water harvesting—\$4.30 for each megalitre
Macintyre Brook water management area	30 June	Water harvesting—\$4.30 for each megalitre
Nogoa Mackenzie water management area	30 June	Water harvesting from Lake Maraboon or Nogoa River or Mackenzie River to the junction with Springton Creek—\$4.30 for each megalitre

Column 1	Column 2	Column 3
Water management area	Date water year ends	Water charges
Pioneer River water management area	30 June	Water harvesting from zones Cattle 01, Cattle 02, Pioneer 01, Pioneer 02, Pioneer 03, Pioneer 04 and Silver/McGregor 01 identified in the 'Pioneer Valley Resource Operations Plan 2007'—\$4.30 for each megalitre
Three Moon Creek water management area	30 June	Water harvesting—\$4.30 for each megalitre
Upper Burnett and Nogo Rivers water management area	30 June	Water harvesting from Nogo River or Burnett River—\$4.30 for each megalitre
Upper Condamine water management area	30 June	Water harvesting from zones UCU-03 (excluding the ponded area of Leslie Dam), UCU-04, UCU-05, UCU-06, UCU-07, UCU-08, UCU-09 or UCU-11 identified in the Condamine and Balonne Resource Operations Plan 2008—\$4.30 for each megalitre

Column 1	Column 2	Column 3
Water management area	Date water year ends	Water charges
Warrill Valley water management area	30 June	<p>Water harvesting—</p> <p>(a) from Reynolds Creek, Warrill Creek from its junction with Reynolds Creek or Bremer River from the junction of Warrill Creek downstream to Berry's Lagoon—\$4.30 for each megalitre</p> <p>(b) from Black Gully, Kent's Lagoon, Normanby Gully, West Branch, Waroolaba Creek or the Upper Warrill systems—\$4.30 for each megalitre</p>

Water Regulation 2002 (Qld)—Schedule 15A—Charges for metered entitlements in Qld MDB¹⁵

Charge title	2016-17 Charge amount
Water Regulation 2002 – Sch. 15A Metered Entitlements in Qld MDB area	
The plan area of the Water Resource (Moonie) Plan 2003	\$153.30
Meter operating charge — based on the cost to the Department for reading the meter	N/A
The plan area of the Water Resource (Warrego, Paroo, Bulloo and Nebine) Plan 2003	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	Range from \$186.30 to \$356.60
Meter operating charge — based on the cost to the Department for reading the meter	N/A
Central Condamine Alluvium ground groundwater management area	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	Range from \$126.10 to \$465.66
Meter operating charge — based on the cost to the Department for reading the meter	N/A
Condamine & Balonne Water Management Area	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	\$916.72
Meter operating charge — based on the cost to the Department for reading the meter	N/A
Stanthorpe water management area under the Water Resource (Border Rivers) Plan 2003	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	Range from \$103.90 to \$287.50
Meter operating charge — based on the cost to the Department for reading the meter	N/A
Eastern Downs management area under the Water Resource (Great Artesian Basin) Plan 2006	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	nil
Meter operating charge — based on the cost to the Department for reading the meter	N/A

¹⁵ Schedule 15A lists the metering entitlements to which a charge applies in a particular water year (but not the dollar amount for each charge). The dollar amounts for each charge presented here are extracted from DNRM's 2015–16 RFI.

The area of the basalt aquifer in the Toowoomba City Basalts groundwater management area	
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	Range from \$64.50 to \$89.00
Meter operating charge — based on the cost to the Department for reading the meter	N/A
Meter use charge — based on the actual cost to the Department for site assessment, purchase and installation of the meter and project management costs	Range from \$137.80 to \$234.95
Meter operating charge — based on the cost to the Department for reading the meter	\$0.00
Weir water management area under the Water Resource (Border Rivers) Plan 2003	
Meter operating charge — based on the cost to the Department for reading the meter	N/A

Water Regulation 2002 (Qld)—Schedule 16—Miscellaneous charges

	\$
1 Application to amalgamate water allocations or subdivide a water allocation (Act, s 128A(2)(b))	121.60
2 Application to change a water allocation (Act, ss 129(3)(c) and 130(3)(d))—	
(a) if the application is made with an application to amalgamate water allocations or subdivide a water allocation	nil
(b) otherwise—	
(i) for 1 application	121.60
(ii) for each additional application made at the same time	24.10
3 Application by water allocation holder or holder of a seasonal water assignment notice for a water allocation for seasonal water assignment (Act, s 142(2)(d))	162.20
4 Creating, on request, a title or a separate title for a water allocation, other than under section 121 or 122 of the Act (Act, ss 148(2)(d) and 150(1))—for each title created	66.00
5 Lodging in the registry an instrument that changes ownership of a water allocation or an interest in a water allocation (Act, ss 148(2)(d) and 150(1))—	
(aa) if lodgement is to record the death of an individual—	
(i) for 1 water allocation	33.00
(ii) for each additional water allocation	nil

	\$
(a) if lodgement is with an instrument changing ownership of a lot or an interest in a lot other than in the circumstances mentioned in paragraph (aa)—for each water allocation	33.00
(b) otherwise—	
(i) for 1 water allocation	175.00
(ii) for each additional water allocation	33.00
5A Lodging in the registry a request to record the change of name of an individual or to correct the name of an individual, for a water allocation or an interest in a water allocation (Act, ss 148(2)(d) and 150(1))—	
(a) for 1 water allocation	33.00
(b) for each additional water allocation	nil
6 Lodging in the registry a certificate approving a proposed amalgamation of water allocations or subdivision of a water allocation (Act, ss 128A(7) and 148(2)(d))	175.00
7 Lodging in the registry a certificate about a proposed change to a water allocation (Act, ss 129(6), 135(1) and 148(2)(d))	175.00
8 Lodging in the registry—	
(a) a cancellation of a writ of execution (Act, ss 148(2)(d) and 150(1))	nil
(b) a discharge or satisfaction of a writ of execution (Act, ss 148(2)(d) and 150(1))	175.00
10 Lodging a standard terms document in the registry (Act, ss 148(2)(d) and 150(1))	nil
11 Lodging in the registry a request to remove from the title of a water allocation a lease that has expired or otherwise ended (Act, ss 148(2)(d) and 150(1))	nil

	\$
12 Lodging in the registry a request to note the lapsing of a caveat (Act, ss 148(2)(d) and 150(1))	nil
13 Lodging any other instrument in the registry (Act, ss 148(2)(d) and 150(1))	175.00
14 Depositing in, or withdrawing from, the registry a settlement notice (Act, ss 148(2)(d) and 150(1))	33.00
15 Depositing in, or removing from, the registry an administrative advice, other than an advice deposited, or removed, by the State (Act, ss 148(2)(d) and 150(1))	26.00
16 Preparing and serving, by the registry, a notice of a caveat (Act, ss 148(2)(d) and 150(1))	33.00
17 Search for (Act, s 148(2)(d))—	
(a) a current title for a water allocation generated—	
(i) in an office of the registry	18.15
(ii) otherwise	14.90
(b) the historical details of a title generated—	
(i) in an office of the registry	26.70
(ii) otherwise	23.35
18 Image of (Act, s 148(2)(d))—	
(a) a title for a water allocation generated—	
(i) in an office of the registry	18.15
(ii) by external access	14.90
(b) another instrument lodged or deposited in the registry	35.35
19 Search, in the registry, of a statement of a registered dealing or an administrative advice against a title (Act, s 153)	3.00

	\$	
20	Investigative search, by the registrar, of the register (not including providing copies of documents) (Act, s 148(2)(d))—	
	(a) if no additional computer programming time is required—for each hour or part of an hour	113.80
	(b) if additional computer programming time is required—for each hour or part of an hour	317.70
21	Certifying, by the registrar, of a copy of the title of a water allocation or a registered instrument (Act, ss 148(2)(d) and 153)	33.00
22	Requisitioning a document lodged for registration (Act, s 148(2)(d))	33.00
23	Application under section 193 of the Act to transfer all or part of an interim water allocation (Act, s 193(2)(c))	357.30
24	Application under section 195 of the Act to transfer all or part of an interim water allocation (Act, s 195)—	
	(a) for 1 application	357.30
	(b) for each additional application, made at the same time, to transfer to the same land	78.55
25	Application to replace jointly held interim water allocation (Act, s 198(4)(b))	121.60
26	Application for water licence (Act, s 206(5)(c))	121.60
27	Fee to purchase a copy of an application for a water licence (Act, s 208(4)(b))—	
	(a) for 1 page	16.45
	(b) for each additional page	0.22
28	Application to amend water licence (Act, s 216)	121.60
29	Application to reinstate expired water licence (Act, s 221(2)(b))	121.60

	\$
30 Application to transfer, amend or amalgamate water licence under part 2, division 3A (Act, s 223)	357.30
31 Application to amalgamate water licences (Act, s 224(2)(b))	121.60
32 Application to replace water licence with 2 or more new licences (Act, s 225(2)(b))	121.60
33 Application to replace jointly held water licence on part disposal of land to which the water licence relates (Act, s 229(4)(b))	121.60
34 Application by licensee of a water licence or holder of a seasonal water assignment notice for a water licence for seasonal water assignment (Act, s 231(2)(f))	162.20
35 Application for allocation of quarry material (Act, s 280(2)(c))—for each 6 month period, or part of a 6 month period, the allocation notice has effect	166.80
36 Application to renew allocation notice (Act, s 289(2)(b))—for each 6 month period, or part of a 6 month period, the renewed allocation notice has effect	166.80
37 Application for water bore driller's licence (Act, s 299(2)(e))—	
(a) if paragraphs (b) to (d) do not apply	548.00
(b) if the applicant relies on section 20(2)(c)(iii) or (iv)	984.00
(c) if the applicant relies on section 21(2)(c)(iv) or (v)	1438.00
(d) if the applicant relies on section 22(2)(c)(iii) or (iv)	1741.00
38 Application to amend water bore driller's licence (Act, s 304)	162.20
39 Application to renew water bore driller's licence (Act, s 308(2)(c))	527.00
40 Application to reinstate expired water bore driller's licence (Act, s 308A(2)(b))	548.00

	\$
41 Application for operations licence (Act, s 328(2)(d))	121.60
42 Computer printout of a document mentioned in section 1009(1) of the Act generated—	
(a) at an office of the department	16.45
(b) by external access	13.15
43 Certifying a copy of a document mentioned in section 1009(1) of the Act	33.65
44 Water licence fee (s 14A(1))—for each year	76.55
45 Application for grant of unallocated water under a resource operations plan (Act, s 1014(2)(a))	223.40
46 Investigative search by the chief executive of the department’s water entitlement registration database (not including providing copies of documents) (Act, s 1014(2)(a))—	
(a) if no additional computer programming time is required—for each hour or part of an hour	67.75
(b) if additional computer programming time is required—for each hour or part of an hour	167.30
47 Copy of a report on an entry in the department’s water entitlement registration database (Act, s 1014(2)(a))	8.05
48 Testing a water meter (Act, s 1014(2)(a))—for each hour	70.65
49 Reading a water meter (Act, s 1014(2)(a))—	
(a) for 1 water meter	78.55
(b) for each additional water meter on the same or an adjacent property	15.45
50 Development application (<i>Sustainable Planning Act 2009</i> , ss 260(1)(d)(ii) and 272(1)(c)(i)) for any of the following—	

	\$
(a) operational work for the taking of, or interfering with, water—	
(i) if the application is made with an application for a water licence	nil
(ii) otherwise	121.60
(b) the removal of quarry material	121.60

2.2.2 New South Wales

In NSW, WPM activities are primarily undertaken by the Department of Primary Industries Water (DPI Water) and WaterNSW. The NSW Land and Property Information office also undertakes activities relating to the registration of water licences, trades and approvals.

WPM charges in NSW for 2016-17 were set by a range of entities:

- The Independent Pricing and Regulatory Tribunal (IPART) sets the maximum charges that can be applied for the monopoly services it delivers on behalf of the Water Administration Ministerial Corporation.¹⁶ These charges include:
 - fixed access (based on water entitlement held) and variable (based on actual water usage) water management charges for each valley to recover a percentage of DPI Water's WPM costs in the relevant valley or system.
 - transaction charges including 'fees to cover the assessment and processing costs of *applications* for access licences, water supply work approvals, water use approvals and access licence dealings lodged under the *Water Management Act 2000*'.¹⁷
- The relevant Minister sets fees relating to *registration* of water licences, trades, approvals and other registry functions.¹⁸ However, the register itself is administered by Land and Property Information.¹⁹
- The ACCC set maximum regulated charges for allocation trade processing and certain other WPM activities undertaken by WaterNSW from 2014–15 until 2016–17. For 2017–18 and beyond, IPART has set the maximum charges for these activities. WaterNSW carries out these activities as part of its water licence conditions.

The schedules below set out the maximum WPM charges for 2016-17 levied by DPI Water, the Minister (in his role of setting registration charges for Land and Property Information) and WaterNSW.

16 The DPI Water WPM charges that IPART sets include: the fixed volumetric charges (charged per ML of entitlements); variable volumetric charges (charged per ML of based on water usage); a minimum annual charge for water license holders; meter reading/assessment charges relating to water users with privately owned meters in unregulated rivers and groundwater sources, ancillary service charges (related to metering); and transaction charges relating to application fees for issuing and amending water access licenses, performing water allocation assignments and works approvals. (See: IPART, *Review of prices for the Water Administration Ministerial Corporation—Final Report*, June 2016, pp. 9-18)

17 IPART, Fact Sheet: 'Prices and Bills for groundwater users – No change in 2015–16', <https://www.ipart.nsw.gov.au/files/sharedassets/website/shared-files/investigation-legislative-requirements-water-bulk-water-water-administration-ministerial-corporation-nsw-office-of-water-pricing-review-commencing-1-july-2016/fact-sheet-prices-for-groundwater-management-from-1-july-2016.pdf>, accessed 2 February 2018.

18 Water Management Act 2000 (NSW), s.114

19 NSW Land and Property Information, 'Water access licence register', http://www.lpi.nsw.gov.au/land_titles/public_registers/water_access_licence_register, accessed 2 February 2018.

WPM charges levied by DPI Water for regulated river, unregulated river and aquifer access (groundwater) licences

DPI Water – water management charges

To help further explain the DPI Water charges on your bill, the 2016-17 regulated river water management charges are shown in the table below.

Regulated river water management charges 1 July 2016 to 30 June 2017		
River Valley	Entitlement Charge (a) \$/UNIT of entitlement	Water Take Charge (b) \$/UNIT of water used
Border	\$2.16	\$1.69
Gwydir	\$1.41	\$1.22
Namoi	\$2.59	\$1.74
Peel	\$2.29	\$4.06
Lachlan	\$1.36	\$1.82
Macquarie	\$1.62	\$1.75
Murray	\$1.46	\$1.04
Murrumbidgee	\$1.24	\$0.82
North Coast	\$3.76	\$5.80
Hunter	\$2.72	\$1.86
South Coast	\$3.17	\$5.04

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²⁰ DPI (2018), *Water Management charges*, <http://www.water.nsw.gov.au/water-management/fees-and-charges/about-your-water-bill/regulated-river-water-management-charges#use>. Accessed 2 February 2018

Unregulated river entitlement and water take charges

Unregulated river water management charges 1 July 2016 to 30 June 2017			
River Valley	Entitlement charge (2-part tariff) (a) \$/UNIT of entitlement	Entitlement charge (1-part tariff) (c) \$/UNIT of entitlement	Water Take charge (b) \$/UNIT of water used
Border	\$2.19	\$4.53	\$2.34
Gwydir	\$2.19	\$4.53	\$2.34
Namoi	\$2.19	\$4.53	\$2.34
Peel	\$2.19	\$4.53	\$2.34
Lachlan	\$2.55	\$5.31	\$2.76
Far West	\$3.91	\$6.31	\$2.40
Macquarie	\$2.55	\$5.31	\$2.76
Murray	\$2.50	\$6.49	\$3.99
Murrumbidgee	\$3.10	\$8.61	\$5.51
North Coast	\$4.35	\$9.02	\$4.67
Hunter	\$1.23	\$3.25	\$2.02
South Coast	\$1.66	\$3.07	\$1.41

Groundwater entitlement and water take charges

Groundwater water management charges 1 July 2016 to 30 June 2017			
Groundwater area	Entitlement charge (2-part tariff) (a) \$/UNIT of entitlement	Entitlement charge (1-part tariff) (c) \$/UNIT of entitlement	Water Taker charge (b) \$/UNIT of water used
Inland	\$3.66	\$6.63	\$2.97
Murrumbidgee	\$2.16	\$3.90	\$1.74
Coastal	\$1.67	\$4.79	\$3.12

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²¹ Ibid

DPI Water: 2016-17 application fees for water access licenses and approvals²²

Consent transaction activity	Charge per transaction	
	No online lodgement	Online lodgement
Any new water access licence		
Zero share	322.48	288.72
Controlled allocation	322.48	288.72
Other	322.48	288.72
Water access licence dealings		
Dealings – regulated rivers	347.93	315.67
Dealings – unregulated rivers and groundwater	1,044.89	1,011.13
Dealings – unregulated rivers and groundwater with low risk	492.21	459.94
Dealings – administrative	237.62	203.85
Water allocation assignments		
Unregulated rivers and groundwater	347.93	315.67
Approvals		
New or amended works and/or use approval	1,924.67	1,890.90
New or amended works and/or use approval – low risk	1,040.38	1,006.62
New basic rights bore approval	398.07	364.31
Amended approval – administrative	237.62	203.85
Extension of approval – lodged before expiry date	240.55	206.79
Extension of approval – lodged after expiry date	400.92	NA

Document1 - Microsoft Word

²² IPART, (2016), *Prices for the Water Administration Ministerial Corporation from 1 July 2016*, <https://www.ipart.nsw.gov.au/files/sharedassets/website/shared-files/investigation-legislative-requirements-water-bulk-water-water-administration-ministerial-corporation-nsw-office-of-water-pricing-review-commencing-1-july-2016/fact-sheet-prices-for-the-water-administration-ministerial-corporation-from-1-july-2016.pdf>, viewed 2 February 2018

NSW Land and Property Information: Fees for land title related products and services from 1 July 2016²³

Product/Service	Fee from 1 July 2016	What's changing?
Plan Registration		
Strata Plan lodgment	\$287.00 for each lot plus \$287.00 for the common property	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Community Plan lodgment	\$615.00 for each lot in the plan	Additional time based fees for plan examination eliminated
Section 88B Instrument (per right created or released) Survey information only plans	\$136.30	Fees ranging between \$105.50 and \$219.00 all standardised at \$136.30
Management Statement Development Contract	\$370.00	Fees ranging between \$236.00 and \$361.00 standardised at \$370.00
Pre-examination of a Deposited Plan or Strata Plan (including GST)	\$473.50 for each lot in the plan	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Pre-examination of a Community Plan (including GST)	\$1014.70 for each lot in the plan	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Primary application fee	\$2050.00	Fee increase
Title Searches		
Document Copies - Over the counter	\$14.00	No change
Owner/Lessee Name Search (up to 700 names) - Over the counter	\$14.00	No change
Official Search	\$370.00	Additional time based fees eliminated
Certified copy	\$136.30	Fee increase

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23 Note that Land and Property Information introduced a simplified fee structure from 1 July 2016. However, the LPI delayed applying the new fees until 1 January 2017 so as to give lodging parties time to prepare for them.
Land and Property Information, (2016), *Land and property information fee changes from 1 July 2016*, Circular No. 2016/05, http://www.nswlrs.com.au/data/assets/pdf_file/0007/209761/2016-05_Fee_changes_from_1_July_2016.pdf, vi

²⁴ Ibid

Product/Service	Fee from 1 July 2016	What's changing?
Plan Registration		
Strata Plan lodgment	\$287.00 for each lot plus \$287.00 for the common property	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Community Plan lodgment	\$615.00 for each lot in the plan	Additional time based fees for plan examination eliminated
Section 88B Instrument (per right created or released) Survey information only plans	\$136.30	Fees ranging between \$105.50 and \$219.00 all standardised at \$136.30
Management Statement Development Contract	\$370.00	Fees ranging between \$236.00 and \$361.00 standardised at \$370.00
Pre-examination of a Deposited Plan or Strata Plan (including GST)	\$473.50 for each lot in the plan	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Pre-examination of a Community Plan (including GST)	\$1014.70 for each lot in the plan	Two tier lodgment fee scale eliminated Additional time based fees for plan examination eliminated
Primary application fee	\$2050.00	Fee increase
Title Searches		
Document Copies - Over the counter	\$14.00	No change
Owner/Lessee Name Search (up to 700 names) - Over the counter	\$14.00	No change
Official Search	\$370.00	Additional time based fees eliminated
Certified copy	\$136.30	Fee increase

WaterNSW: Final charges – miscellaneous 2016-17(\$2016–17)²⁵

Type of charge	Charge (\$)
Charges for testing meter accuracy under dispute	1,710.26
Environmental gauging station charges	8,789.45
Fish River connection charges	473.51
Fish River disconnection charges	
Allocation trade processing – charge per application	39.01
Allocation trade processing – charge per ML of allocation traded	0.51
Allocation trade processing – cap on total charge	153.98
Yanco Creek levy – per ML of entitlement	0.90

²⁵ ACCC, (2016), WaterNSW, *Annual review of regulated charges: 2016-17 – Final decision*, May, <https://www.accc.gov.au/system/files/ACCC%20Final%20decision%20-%20WaterNSW%20-%20Annual%20Review%20of%20Regulated%20Charges%202016-17.pdf>, viewed 2 February 2018

2.2.3 Australian Capital Territory

In the ACT, the Chief Minister, Treasury and Economic Development Directorate; Territory and Municipal Services Directorate; Environment, Planning and Sustainable Development Directorate (EPSDD); the Environment Protection Authority and ICON Water²⁶ all undertake WPM activities.

WPM charges are set by the relevant Minister (currently the Minister for Environment and Heritage)²⁷ under section 107 of the *Water Resources Act 2007* (ACT), s 107 (*Determination of fees*).

The Water Resources (Fees) Determination 2016 (No 1) (below) sets out the level of regulated WPM charges for 2016–17.

26 On 4 May 2015, ACTEW Water was renamed Icon Water.

27 ACT Government, Administrative Arrangements 2016 (No 4), Schedule 2, Part 2.5. <http://www.legislation.act.gov.au/ni/2016-608/20161101-64980/pdf/2016-608.pdf>, viewed 2 February 2018

Water Resources (Fees) Determination 2016

Disallowable Instrument DI2016-180

Made under the

Water Resources Act 2007, section 107 (Determination of fees)

1. Name of instrument

This instrument is the *Water Resources (Fees) Determination 2016*.

2. Commencement

This instrument commences on 1 July 2016.

3. Determination of fees

The fee payable in respect of each matter listed in an item in column 2 of schedule is the amount listed for that matter in column 4 and in the manner listed for that matter in column 5.

4. Payment of Fee

The fees determined in this instrument are payable to the Territory by the person requesting the goods or services, as listed.

5. Definitions

In this instrument:

licence year means the first whole year of a licence or subsequent whole years.

repealed Act means the *Water Resources Act 1998*.

WAE means water access entitlement.

6. Revocation

I revoke *Water Resources (Fees) Determination 2015 (No 1) (DI2015-160)*.

Simon Corbell MLA

Minister for the Environment and Climate Change

30 June 2016

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²⁸ Water Resource Act, (2007), ACT, Water Resources (Fees) Determination 2016, <http://www.legislation.act.gov.au/di/2016-180/20160701-64083/pdf/2016-180.pdf>, viewed 2 February 2018

Schedule (See section 3)				
column 1	column 2	column 3	column 4	column 5
Section of Act	Type of licence	Fee Payable 2015-16	Fee Payable from 1 July 2016	Payment Requirements
s.111	Grant of a WAE where a person held a licence to take water under section 35 of the repealed Act but did not hold an allocation. The use of this WAE is restricted to a particular location.	<i>Nil</i>	<i>Nil</i>	
s.111 (surviving allocations)	Grant of a WAE where a person held a licence to take water under section 35 of the repealed Act and an allocation held under section 28 of the repealed Act that did not permit trade. The use of this WAE is restricted to a particular location.	<i>Nil</i>	<i>Nil</i>	
s.111 (surviving allocations)	Grant of a WAE where a person held a licence to take water under section 35 of the repealed Act and an allocation held under section 28 of the repealed Act that did permit trade. The use of this WAE is not restricted to a particular location.	<i>Nil</i>	<i>Nil</i>	
s.20	Grant of a WAE where use is not restricted to a particular location, in all cases except those specifically identified – per mega litre.	726.20	755.20	As specified in the entitlement
s.20	Grant of a WAE to a utility from the Cotter or Googong water management areas. This WAE is limited to use through the Canberra/Queanbeyan urban water supply network.	<i>Nil</i>	<i>Nil</i>	
s.20	Grant of a WAE that is limited to stock and domestic purposes and is restricted for use at a particular location.	<i>Nil</i>	<i>Nil</i>	
s.20	Grant of a WAE on declared national land and that is restricted for use at a particular location.	<i>Nil</i>	<i>Nil</i>	
s.25 (Removal of location restriction)	Change of condition of a WAE from one that is restricted in location to one that is not restricted for use at a particular location – per mega litre.	726.20	755.20	As specified in the entitlement
s.29	Application fee for a licence to take water	160.30	166.70	On application for a licence

29

²⁹ Ibid

column 1	column 2	column 3	column 4	column 5
Section of Act	Type of licence	Fee Payable 2015-16	Fee Payable from 1 July 2016	Payment Requirements
s.30	Licence to take water – administration fee for each licence year relating to a licensed volume of up to 1000 mega litres per year, except where a licensee has entered into a data collection and sharing agreement with the Environment Protection Authority.	415.70	432.30	For the first year of the licence, the fee shall be paid in full on application for a licence and thereafter, on a date specified in the licence.
s.30	Licence to take water – administration fee for each licence year relating to a licensed volume of up to 1000 mega litres per year, where a licensee has entered into a data collection and sharing agreement with the Environment Protection Authority.	Nil	Nil	For the first year of the licence, the fee shall be paid in full on application for a licence and thereafter, on a date specified in the licence.
s.30	Licence to take water administration fee for each licence year relating to a licensed volume of more than 1,000 mega litres per year.	8,070.90	8,393.70	For the first year of the licence, the fee shall be paid in full on application for a licence and thereafter, on a date specified in the licence.
s.30	Licence to take water abstraction fee for water taken for the purposes of urban water supply and calculated on the basis of the water abstracted – per kilolitre.	0.55	0.55	Payments to be made for water charged to users in each three month period ending the last day of February, May, August and November each year and within 28 days of the end of the three month period.
s.30	Licence to take water – abstraction fee for all water from surface water or groundwater except for that supplied through a water supply network – per kilolitre.	0.265	0.265	As specified in the licence. In all cases, where fees relating to a part of a month are due, each day's use will be taken to be equivalent to average daily use for that month and, where monthly meter readings are not available, the Environment Protection Authority shall estimate water use after consultation with the licensee.

30

³⁰ Ibid

column 1	column 2	column 3	column 4	column 5
Section of Act	Type of licence	Fee Payable 2015-16	Fee Payable from 1 July 2016	Payment Requirements
s.34	Three year driller licence application fee where the applicant does hold an equivalent licence in a state in Australia.	160.30	166.70	On application.
s.38	Application fee for a bore work licence.	160.30	166.70	On application
s.48	Application for a Recharge licence.	160.30	166.70	On application
s.50	Recharge licence - yearly administration fee.	415.70	432.30	For the first year of the licence, the fee shall be paid on application for a licence and thereafter, on a date specified in the licence
s.43	Application fee for a Waterway work licence.	160.30	166.70	On application
s.26	Application fee for the transfer of a water access entitlement either permanently or for a period of time.	160.30	166.70	On application

31

³¹ Ibid

2.2.4 Victoria

In Victoria, there are a number of entities that are involved in undertaking and charging for WPM activities:

- The Department of Environment, Land, Water and Planning (DELWP) manages groundwater, catchments and waterways, infrastructure, water saving and re-use projects, flood management, governance and water legislation, largely funded by the 'Environmental Contribution' (see chapter 3 of the Water Monitoring Report 2016-17).³²
- Local water authorities (GMW, LMW and GMMW) are the approval authorities for water share trades and similar dealings, such as transferring, dividing, consolidating, issuing and cancelling a water share, and for approving the trade of water allocations. Most of these transactions must be registered with the Victorian Water Register to take effect.³³ Maximum application fees for these approvals are set by the Minister under the Water (Resource Management) Regulations 2007. These are set in terms of fee units, set in accordance with the *Victorian Monetary Units Act 2004*.
- The local water authorities also undertake various other miscellaneous WPM activities. These 'miscellaneous services are part of a range of prescribed services under the Water Industry Regulatory Order (WIRO) for non-infrastructure related services and under the Water Charge (Infrastructure) Rules (WCIR) for infrastructure related services, and are subject to price regulation by the [Essential Services] Commission [Victoria]'.³⁴
- The Victorian Water Register (VWR) processes the lodgement of water share dealings approved by local water authorities. Maximum application fees for these lodgements are set by the Minister under the Water (Resource Management) Regulations 2007. These are set in terms of fee units, set in accordance with the *Victorian Monetary Units Act 2004*.
- Further activities are delegated to catchment management authorities and the Environment Protection Authority. These catchment management authorities receive funds from local water authorities for the purpose of salinity management. The charges³⁵ which raise these salinity management funds are set in accordance with the Victorian Government's *Policies for Managing Water-Use Licences in Salinity Impact Zones*. These charges were set in 2006-07 and have increased by CPI since that time.³⁶

WPM charges for the VWR, and certain rural water corporations (GMW, LMW, GMMW and Coliban Water) are set out below.

32 These revenues exclude revenue from bulk water services, bulk sewerage services, metropolitan drainage and water services and certain other revenue sources. See: Victoria, Victorian Government Gazette, No G26, 28 June 2012, pp. 1444-1445.

33 Transfer of water allocations must be approved by the local water authority. The transfer does not need to be lodged with the Victorian Water Registrar to take effect.

34 Essential Services Commission (Victoria), *Price Review 2013: Rural Water Businesses – Final Decision*, June 2013, p.67, <http://www.esc.vic.gov.au/wp-content/uploads/esc/31/318948ed-1c0f-4849-b81f-7ae4809f154d.pdf>, viewed 7 February 2018

35 For GMW, these salinity charges are the 'operation and maintenance charge' and the 'capital charge'. For LMW, these salinity charges are the salinity disposal fees and the 'Operations and Maintenance Charge'. See: Goulburn-Murray Water, 'Price List 2015-16', https://www.g-water.com.au/downloads/gmw/Pricing_List/GMW_2016_17_Price_List.pdf viewed 15 February 2018; Lower Murray Water, 'Lower Murray Urban & Rural Water Corporation Notice of Resolution of Tariffs', <http://www.lmw.vic.gov.au/LowerMurrayWaterSite/media/FactSheetsBrochures/Tariffs/2016-2017/Rural-Tariffs-Advert-2016-2017.pdf> viewed 15 February 2018.

36 Minister for Water, *Environment and Climate Change, Policies for Managing Water-Use Licences in Salinity Impact Zones*, pp. 5-8, https://waterregister.vic.gov.au/images/documents/water_use_licences_in_salinity_impact_zone_policies.pdf, viewed 7 February 2018.

DELWP/Victorian Water Register Fees 2016–17

Application Fees

Application	Current Fee (\$)
Form 1 Application to Transfer a Water Share	193.00
Form 5 Application to Divide a Water Share	162.50
Form 6 Application to Consolidate Water Shares	162.50
Form 7 Application for the Issue of a Water Share	193.00
Form 8 Application to Cancel a Water Share	193.00
Form 9 Application to Vary and/or Associate, or Revoke the Association of a Water Share	85.90
Form 10 Application for a Limited Term transfer	193.00
Form 39 Application to Trade Water Allocation	85.90
Form 39 Application to Trade Water Allocation (submitted online)	45.60

The fee for [Form 9](#) has been reduced to reflect additional efficiency that has been built into the Water Register for this application.

[Form 40](#) Application to Link Multiple Water Shares and/or Multiple Water-Use Licences to a Single Allocation Account: The application fee is \$85.90 for each water share and each water-use licence added to the allocation account. Plus, any allocation trades requested under 3B of Form 40 will incur a fee of \$85.90 per trade. If unsure, please contact your water corporation for assistance.

[Application for the Issue of a Works Licence](#): Registered users of MyWater can now make applications for bore construction licences online at a reduced fee of \$235. Please refer to the [MyWater information page](#) for more details. For all other types of works licence applications using a paper [Form 29](#) can still be made directly with the relevant water corporation. Fees will vary between water corporations.

Fees for applications to the Water Registrar

To record the transfer of a water share, to discharge a mortgage on a water share, or record a legal personal representative (as well as other similar business) you need to apply to the Water Registrar. More information about applications to the Registrar is available [here](#).

The table below shows the fees for applications lodged with the Water Registrar.

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³⁷ Victorian Water Registry (2018), *Fees for applications to Water Corporations*, <http://waterregister.vic.gov.au/about/forms-and-fees/fees>, viewed 7 February 2018

Lodgement Fees

Action legend:

* you must start by applying to your water authority for approval

you must lodge directly with the Water Registrar

Transaction	Action	Current Fee (\$)
Transfer of Water Share	*	123.90
Limited Term Transfer	*	123.90
Surrender of Limited Term Transfer	#	62.00
Mortgage of Water Share	#	62.00
Discharge of Mortgage of Water Share	#	62.00
Transfer of Water Share by Mortgagee	#	123.90
Variation of Recorded Mortgage of Water Share	#	62.00
Transfer of Recorded Mortgage of Water Share	#	62.00
Variation in Priority of Recorded Mortgages of Water Share	#	62.00
Application by Surviving Owner of a Water Share	#	123.90
Application by Legal Personal Representative in Respect of Water Share (LPR)	#	123.90
Transmission Application by Trustee in Bankruptcy of Water Share	#	123.90
Application to correct or amend name in Register	#	123.90
Memorandum of Common Provisions for Water Share Mortgage	#	123.90

Search type	Current Fee (\$)
Search by applicant accessing an online facility established by the Registrar	14.20
Water share record search by Registrar on behalf of applicant (a hard copy of the results provided to the applicant)	27.20
Instrument search by Registrar on behalf of applicant (a hard copy of the results provided to the applicant)	14.20

Fees for the purchase of a copy of record on Water Register website

See below

Water Register Copy of Record Fee

Transaction	Current Fee (\$)
Purchase of a Copy of Record from Victorian Water Register website	14.20

Fees for applications to the Water Registrar are set under the Water (Resource Management) Regulations 2007, and fees for applications to Water Corporations are set under the Water (Resource Management) Amendment Regulations 2009. On 1 July each year, all fees are indexed in accordance with the *Monetary Units Act 2004*.

GMW - Information on water planning and management charges levied by GMW (Miscellaneous Charges)

MISCELLANEOUS CHARGES	
Private Works	\$
Security Deposit	25% Job (\$1,000 min)
Supervision Fee	5% Job (\$250 min)
Issue Fee / Job	82.00
Water District	\$
Reclassification Fee	152.00
Subdivision Fee	197.00
Diversion Works on Crown Land	\$
Issue Fee	82.00
Small Pipe Outlet	\$
Issue Fee	139.00
Supply Agreement	\$
Drainage Supply by Agreement	238.00
High Flow Annual Fee (drainage only)	71.00
New and amendment to supply by agreement	618.00
Amend District Boundaries	\$
Extension or Diminishment of GMW Districts	557.00
Special Meter Reading and Bore Monitoring Fee	\$
Meter Reading and Bore Monitoring Fee	61.00
Delivery Share / Reservation Fee	\$
Application Fee	192.00
Information Statement (under Section 158 of the Act)	\$
Application for Land Information Statement	117.00
Water Information Statement	\$
One Water Share Identification Number (WEE no.)	34.00
Each additional Water Share Identification Number	11.00
Rates and Charges Update - one per statement	34.00
Express Service	51.00
Title, Licence and Copy of Record Search	\$
Water Register Information - Copy of Record	25.00
Title and Company Search	30.00
Reprint of unsigned Take and Use Licence or Works Licence	76.00
Dams on or off Waterway Fee	\$
Works on waterways and large dam construction licence	2,979.00
Works on waterways and large dam construction or operate licence renewal, transfer	735.00
Registration of construction or alteration of a Domestic Stock or Aesthetic dam	61.00
Groundwater Works Licence Fees	\$
Domestic and stock bore to construct, alter and replace	395.00
Online domestic and stock bore to construct	235.00
Online domestic and stock bore to amend and renew	81.00
Licencable bore - construct, alter, operate	1,459.00
Licencable bore - replace	912.00
Each additional licencable bore associated with a construct works licence	172.00
Amendment to domestic and stock bore	203.00
Renewal/transfer of a works licence to construct	203.00
Amendment of a works licence to construct (licensable purpose)	547.00
Investigation or monitoring bore construct, alter, replace and renew	400.00
Online - Investigation or monitoring bore to construct	238.00
Online - Investigation or monitoring bore amend and renew	81.00
Each additional licensable bore associated with construct works licence	172.00
Renewal/transfer of a works licence to construct	203.00
Each additional observation bore	172.00
Amendment to Investigation/observation	203.00
Waterway Determination	\$
Initial inspection and report	805.00
Each additional assessment	375.00
Irrigation Development Guidelines (IDG)	\$
IDG Technical Assessment	1,089.00
IDG Final Assessment and Further Information Fee	110.00/hr
IDG Licence Feasibility Assessment	110.00/hr
Groundwater and Unregulated Surface Water Take and Use Licence Fees	\$
Application Fee - Groundwater or Surface Water Licence	1,520.00
Review additional information for high risk applications	App Fee + 110.00/hr
Application for Temporary Transfer of Licence volume	
Tier 1 - Temporary trade	203.00
Tier 2 - Temporary trade technical assessment required	542.00
Review of additional information required	App Fee + 110.00/hr
Permanent Transfer of licence Entitlement	1,074.00
Review of additional information required	App Fee + 110.00/hr
Transfer of Ownership (land transfer)	203.00
Amend, amalgamate, subdivide licence	861.00
Renew Groundwater/Surface water licence	699.00
Decrease Licence Volume	267.00
Registration and transfer of a Domestic and Stock bore	61.00
Capital Charge for New Groundwater Entitlement (per licence ML)	160.00
Private right determination	816.00
Land Transactions	\$
Change of Ownership	72.00
Application to issue, Transfer or Vary a Delivery Share	182.00
Application for delivery capacity assessment	93.00
Application to issue or vary a Water-Use Licence (with inspection)	431.00
Application to issue or vary a Water-Use Licence (without inspection)	203.00
Application to cancel a Water Use Entity	No Charge
Application to issue/amend/renew a Works Licence	735.00
Application to transfer a Works Licence	203.00
Occupation Licence Fees (grazing, jetties, silpways, occupation)	\$
Application for a New Licence, Transfer or Vary Fee	280.00
Retrospective Application Fee	650.00
Site Assessment and Supervision Fee	5% Job (\$250 min)
Works Refundable Security Deposit	25% Job (\$1,000 min)
Regatta Fees	\$
First day	206.00
Each consecutive day	114.00
CMA Salinity Management Charge	\$
Operations and Maintenance Charge	4.00
Capital Charge	35.00
Water Register Application Fees	\$
Form 1 Application to Transfer a Water Share	189.20
Form 5 Application to Divide a Water Share	169.30
Form 6 Application to Consolidate Water Shares	169.30
Form 7 Application for the Issue of a Water Share	189.20
Form 8 Application to Cancel a Water Share	189.20
Form 9 Application to Vary and/or Associate, or Revoke the Association of a Water Share	84.20
Form 10 Application for a Limited Term transfer	189.20
Form 39 Application to Trade Water Allocation	84.20
Form 39 Application to Trade Water Allocation (submitted online)	44.70

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³⁹ GMW (2018), *Pricelist 2016-17 - fees and charges, Miscellaneous charges*, https://www.g-water.com.au/downloads/gmw/Pricing_List/GMW_2016_17_Price_List.pdf, viewed 7 February 2018

Lower Murray Water – Water Planning and Management Charges for 2016-17

Information on water planning and management charges levied and determined by Lower Murray Water⁴⁰

Information requirement	Relevant information
<p>The name or a description of the regulated charge</p>	<p>Transaction fees for applications to Lower Murray Water made under the <i>Instrument of Delegation dated 27 October 2014</i> for Victorian Water Register related activities including:</p> <ul style="list-style-type: none"> • application fee for a water use licence • application fee for a water use registration • application fee for a works licence • application fee for a ground water licence • application fee to establish a tagged interstate entitlement • application to place an order against a tagged interstate entitlement • application to issue, amend or transfer a bundled entitlement • application fee to issue a delivery share • application fee to vary a water use licence • application fee to vary a works licence • application fee to vary a ground water licence • application fee to transfer a works licence • application fee to transfer or amend annual use limit • application fee to cancel a water use licence • application fee to cancel a water use registration • application fee to cancel a works licence • application fee to cancel a ground water licence • application to vary or cancel a delivery share • water register administration fee (100 pt check, ABA creation, ASIC extract) • Subdivision of Water Entitlements (associated with a subdivision of land) <hr/> <p>Transaction fees for applications to Lower Murray Water made by way of under the <i>Instrument of Delegation dated 27 October 2014</i> under section 264 of the Water Act 1989 (Victoria) for management of licencing conditions including:</p> <ul style="list-style-type: none"> • fee for special meter reading • fee for meter investigation

⁴⁰ Lower Murray Water, (2018), *Information on water planning and management charges levied and determined by Lower Murray Water*, [http://www.lmw.vic.gov.au/LowerMurrayWaterSite/.../Water%20Charge%20\(PMI\)%20Rule...](http://www.lmw.vic.gov.au/LowerMurrayWaterSite/.../Water%20Charge%20(PMI)%20Rule...) Viewed 7 February 2018

Information requirement	Relevant information
	<p>Regulated tariffs payable to Lower Murray Water made by way of the <i>Instrument of Delegation dated 27 October 2014</i> under section 264 of the Water Act 1989 (Victoria) for administration and management of licencing conditions including:</p> <ul style="list-style-type: none"> • service charge • operational fee
<p>The amount of the regulated charge (whether expressed as a dollar amount or as fee units) or details of rates, fixed and variable components and all other details necessary to determine the amount</p>	<p>From 1 July 2016:</p> <ul style="list-style-type: none"> • the application fee for a water use licence is \$189.20 • the application fee for a water use registration is \$189.20 • the application fee for a works licence is \$189.20 • the application fee for a ground water licence is \$357.80 • the application fee to establish a tagged interstate entitlement is \$159.25 • the application fee to place an order against a tagged interstate entitlement is \$84.15 • the application fee to issue, amend or transfer a bundled entitlement is \$189.20 • the application fee to issue a delivery share is \$84.15 • the application fee to vary a water use licence is \$84.15 • the application fee to vary a works licence is \$189.20 • the application fee to vary a ground water licence is \$189.20 • the application fee to transfer a works licence is \$189.20 • the application fee to transfer or amend annual use limit \$189.20 • the application fee to cancel a water use licence is \$84.15 • the application fee to cancel a water use registration is \$84.15 • the application fee to cancel a works licence is \$189.20 • the application fee to cancel a ground water licence is \$189.20 • the application to vary or cancel a delivery share is \$84.15 • the water register administration fee (100 point check, ABA creation or ASIC extract) is \$26.65 • the fee for special meter reading is \$43.80 • the fee for meter investigation is \$347.00 (refundable on the outcome of the investigation) • the service charge is \$100.00 per assessment being a fixed charge • the operational fee is \$2.19 per ML of annual use limit stipulated on the water use licence • the subdivision of water entitlements (associated with a subdivision of land) is \$100.00

Information on water planning and management charges levied by GWMWater 2016–17⁴¹

Details	Amount (\$) Including GST
Transfer Water Entitlement – Rural Pipeline	
Temporary Transfer / per Application	84.20
Permanent Transfer / Transaction	189.20
Rural Pipeline Supply Application Fees	
Application fee for Amalgamation of Allowances	159.30
Application fee Subdivision of Allowances	159.30
Diversions Take and Use Licences (Groundwater and Surface water)	
Application for a Take and Use Licence (s51) other than domestic and stock	935.00
Application for a renewal of Take and Use Licence (s53) other than annual licence (or for renewal of licences of more than one years duration)	312.00
Application for annual diversion licence for domestic and stock use	84.20
Application for change of ownership	84.20
Application to amend a Take and Use Licence	84.20
Bore Construction Licence and Bore Alteration Licence Fees	
Application for a licence to construct or alter a bore (s67)	395.00
Application for a licence to construct or alter a bore – Data Collection Only	234.00
Application for a licence to construct or alter a second or more bore(s) at the same site – Data Collection Only	80.00
Application for transfer of a licence to construct or alter a Bore – on sale of property (s74)	80.00
Application for renewal (extension) of a Bore Construction Licence (s72)	80.00
Application for a licence to construct or alter a bore (online, and up to 20 bores)	235.00
Application to amend or renew a bore construction licence (online)	80.00
Disposal Fee	
Application for approval to dispose of matter underground by means of a bore (s76)	395.00
Transfer of Entitlement (s62) – Groundwater and Surface water	
Temporary Transfer / per Application	84.20
Permanent Transfer to existing licence/ per Transaction	189.20
Permanent Transfer to new licence / per Transaction	935.00
Construct Dam or Other Works On A Waterway	
Licence Fees	512.00
Construction of Private Works	
Security Deposit on :	
(1) Works < \$10,000	1,000.00
(2) Works > \$10,000	10% of Job
Supervision Fee	288.00
Use of Private Works	
(1) Issue Fee	56.50
(2) Re-issue Fee	56.50

⁴¹ GWMWater, (2017), *Data provided to ACCC for 2016-17 Water Monitoring Report*,

**Information on water planning and management charges levied by Coliban Water
2016–17**

Name of Charge	Amount of Charge
Rural Transfer Administration Fee ⁴²	\$65.00 per transfer application

42 This fee is levied when a customer applies to transfer an entitlement or allocation (temporary or permanently, including as a result of the sale, sub-division or amalgamation of a property).

2.2.5 South Australia

The Department of Environment, Water and Natural Resources (DEWNR) performs the majority of WPM activities in South Australia along with various local Natural Resources Management (NRM) Boards. In the South Australian Murray–Darling Basin (SAMDB), the relevant NRM Board is the South Australian Murray–Darling Basin Natural Resources Management Board.

WPM activities in the SAMDB are funded through State and Federal Government contributions, transaction fees and the NRM Water Levy.

The Minister (currently the Minister for Water and the River Murray) determines an individual NRM Water levy for each NRM Board area in South Australia, including the SAMDB under the *Natural Resources Management Act 2004* (SA). The NRM water levy may be calculated on a different basis in each NRM area.

The transaction fees are levied by the Minister under the *Natural Resources Management Act 2004* (SA), and the Natural Resources Management (General) Regulations 2005. These transaction fees apply for relevant transactions throughout South Australia.

WPM transaction charges for South Australia (Schedule 4) and the SAMDB NRM Water levy are set out below.

Part 2—Variation of *Natural Resources Management (General) Regulations 2005*

4—Substitution of Schedule 4

Schedule 4—delete the Schedule and substitute:

Schedule 4—Fees

1	Application for a permit under Chapter 7 of the Act, other than an application for a permit to drill a well or to undertake work on a well	\$54.00
2	Application for a permit to drill a well or to undertake work on a well	\$85.00 plus a technical assessment fee of an amount not exceeding \$146.00 determined by the Minister after taking into account any advice from his or her department about the costs associated with assessing the application
3	Maximum fee under section 138 of the Act	\$1.75 per page
4	Application for a well driller's licence—	
	(a) for a new licence	\$252.00
	(b) for the renewal of a licence	\$130.00
5	Application for the variation of a well driller's licence	\$192.00
6	Application for a water licence	\$227.00
7	Maximum fee under section 149 of the Act	\$1.75 per page
8	Application to transfer a water licence	\$422.00 plus a technical assessment fee of \$284.00
9	Application to vary a water licence on transfer of an allocation, other than in relation to the River Murray prescribed watercourse	\$422.00 plus a technical assessment fee of \$284.00
9A	In relation to the River Murray prescribed watercourse—	
	(a) application to transfer a water access entitlement	\$422.00
	(b) application to vary a water allocation	\$248.00
	(c) application to transfer a water allocation	\$248.00
	(d) application for a water resource works approval	\$422.00
	(e) application to vary a water resource works approval	\$422.00
	(f) application for a site use approval	\$422.00 plus a technical assessment fee of \$284.00
	(g) application to vary a site use approval	\$422.00 plus a technical assessment fee of \$284.00
10	Additional fee where Minister directs an assessment by an expert under the Act (and the expenses of the assessment are to be paid by the applicant in addition to this fee)	\$186.00

43 Natural Resources Management (General) (Fees) Variation Regulations 2016, Schedule 4, [https://www.legislation.sa.gov.au/LZ/V/R/2016/NATURAL%20RESOURCES%20MANAGEMENT%20\(GENERAL\)%20\(FEES\)%20VARIATION%20REGULATIONS%202016_97/2016.97.UN.PDF](https://www.legislation.sa.gov.au/LZ/V/R/2016/NATURAL%20RESOURCES%20MANAGEMENT%20(GENERAL)%20(FEES)%20VARIATION%20REGULATIONS%202016_97/2016.97.UN.PDF), viewed 7 February 2018

11	Application to vary a licence for any other reason	\$422.00 plus a technical assessment fee of \$284.00
12	Application for a permit under section 188 of the Act—	
	(a) in relation to a Category 1 or Category 2 animal	\$353.00
	(b) in relation to a Category 1 or Category 2 plant	\$98.50
	(c) in relation to a Category 3 animal or plant	\$98.50
13	Maximum fee for a copy of an annual report under the Act	\$1.75 per page
14	Maximum fee for a copy of a submission under section 42 of the Act	\$1.75 per page
15	Maximum fee for a copy of the State NRM Plan or any amendments to the State NRM Plan	\$1.75 per page
16	Maximum fee for a copy of a document under section 83 of the Act	\$1.75 per page
17	Maximum fee for a copy of an agenda or minutes under Schedule 1 of the Act	\$1.75 per page
18	Application for notation on NRM Register or for the removal of a notation	\$8.75
19	Fee for providing information required by the <i>Land and Business (Sale and Conveyancing) Act 1994</i>	\$25.25
20	Application for a forest water licence	\$227.00
21	Application to vary a water allocation attached to a forest water licence	\$422.00 plus a technical assessment fee of \$284.00
22	Application to transfer the whole or a part of the water allocation attached to a forest water licence	\$422.00 plus a technical assessment fee of \$284.00
23	Application to vary a condition to a forest licence	\$422.00 plus a technical assessment fee of \$284.00

Note—

As required by section 10AA(2) of the *Subordinate Legislation Act 1978*, the Minister has certified that, in the Minister's opinion, it is necessary or appropriate that these regulations come into operation as set out in these regulations.

Made by the Governor

with the advice and consent of the Executive Council
on 23 June 2016

No 97 of 2016

T&F16/026CS

NRM Water Levy – Division 2 Levy in the South Australian Murray–Darling Basin⁴⁴

Prescribed resource	2016-17 rate	2017-18 rate	2018-19 rate *
River Murray class 2 and class 6 water access entitlements	1.960 cents per unit share	1.974 cents per unit share	1.988 cents per unit share
River Murray class 3a, class 4 and class 5 water access entitlements	0.630 cents per unit share	0.634 cents per unit share	0.639 cents per unit share
River Murray class 3b water access entitlements	0.600 cents per unit share	0.604 cents per unit share	0.608 cents per unit share
Angas Bremer	\$6.30/ML	\$6.34/ML	\$6.39/ML
Noora	\$6.30/ML	\$6.34/ML	\$6.39/ML
Mallee-reticulated	\$19.60/ML	\$19.74/ML	\$19.88/ML
Mallee	\$6.30/ML	\$6.34/ML	\$6.39/ML
Mineral Sands Mining	\$6.30/ML	\$6.34/ML	\$6.39/ML
Peake, Sherlock and Roby	\$6.30/ML	\$6.34/ML	\$6.39/ML
Marne Saunders	\$6.30/ML	\$6.34/ML	\$6.39/ML
Eastern Mount Lofty Ranges	\$6.30/ML	\$6.34/ML	\$6.39/ML
Taking LABA (Flood)	\$1.50/ML	\$1.51/ML	\$1.52/ML

2.2.6 Murray–Darling Basin Authority

WPM activities are carried out by the Murray–Darling Basin Authority (MDBA). However, in 2016-17 the MDBA did not impose any regulated WPM charges (and has not imposed charges over the period for which the ACCC has been monitoring regulated charges). For further discussion on the MDBA’s role in WPM activities and how these activities are funded, see section 2.3.2 of Appendix A2 of the main report.

⁴⁴ Natural Resources (2018), About the NRM water levy, <http://www.naturalresources.sa.gov.au/samurraydarlingbasin/about-us/nrm-levies/nrm-water-levy>, viewed 7 February 2018

2.3 Assumptions for the 2016-17 estimated WPM revenues and WPM costs

In the RFIs sent to the five Basin State Departments and four water authorities ('WPM RFIs'), the ACCC requested information on the activities of these entities as well as the costs involved in performing these activities.

2.3.1 Department of Natural Resources, Mines & Energy, Queensland

Regulated WPM charges are determined by the Queensland Government as per Schedules 14, 15A and 16 of the Water Regulations 2002 made under the *Water Act 2000* (Qld).

DNRME reports WPM revenue relating to the following types of regulated charges:

- surface and groundwater management area fees (both water access entitlement and usage)
- water licence fees (including transaction revenue from the stakeholders trading, amalgamating and cancelling water allocations)
- metering charges
- print outs of titles relating to water allocations
- registration of instrument fees
- other transaction charges.

The revenue includes only those water surface and groundwater management fees and metering charges that are collected from the water users within the MDB, while the revenue from licence fees and other transaction charges is collected on a state-wide basis.

As noted in section 2.1, DNRME did not provide cost data for its WPM activities in 2016–17.

2.3.2 DPI Water and WaterNSW

As noted above, regulated WPM charges in 2016-17 were determined by IPART, the relevant Minister and the ACCC. Each of these entities determined different types of WPM charges.

Previously DPI Water reported on WPM revenue relating to water management charges and transaction fees. In 2016-17 responsibility for a number of functions including billing was transferred from the DPI to WaterNSW (see chapter 3, section 3.1.1). WaterNSW collected WPM charges on behalf of DPI in addition to collecting its own fixed and variable water access right charges. Both the DPI Water and WaterNSW provided a breakdown of the costs of their WPM activities by NWI activity to the ACCC.

Both the revenues raised from WPM charges and the costs of WPM activities reported cover the entire state of New South Wales (i.e. not only the Murray–Darling Basin).

The analysis in the main report does not include the information regarding WPM charges imposed by Land and Property Information

2.3.3 Environmental Planning and Sustainable Development Directorate, ACT

As noted above, regulated WPM charges are determined by the relevant Minister (currently the ACT Minister for the Environment and Heritage) and set out in the Water Resources (Fees) Determination 2015 (ACT) made under the *Water Resources Act 2007* (ACT).

The ACT Government's total WPM revenue for 2016-17 is based on revenue collected from:

- the Water Abstraction Charge
- various transaction charges.

The Water Abstraction charge is applied to urban water usage and rural water usage; the charge comprised 99 per cent of the reported revenue. The majority of the revenue collected under the Water Abstraction charge was received from urban water users rather than rural users (irrigators).

The ACT EPSDD provided a breakdown of the costs of its WPM activities to the ACCC by NWI category. However, it was not able to further break down costs between operating, capital and corporate costs.

2.3.4 Department of Environment, Land, Water and Planning, Victoria

As noted above, regulated WPM charges are determined by the Minister by regulation under the Water (Resource Management) Regulations 2007 and the *Water Industry Act 1994* (Vic).

DELWP collects its WPM revenue from the Environmental Contribution, charges for services provided by the Victorian Water Registry and salinity management charges imposed in salinity management zones.⁴⁵

The revenue collected from the Environmental Contribution (EC) forms the overwhelming majority of DELWP's revenue. The EC is set by the Minister as a fixed percentage of the revenue raised from the allowed revenue of water authorities (5 per cent of revenue from urban water authorities and 2 per cent of revenue from rural water authorities respectively).⁴⁶

Both the revenues raised from WPM charges and the costs of WPM activities reported cover the entire state of Victoria (i.e. not only the Murray–Darling Basin).

2.3.5 Goulburn-Murray Water, Lower Murray Water and Grampians Wimmera Mallee Water, Victoria

The rural water authorities GMW, LMW and GWMW were delegated responsibilities by the Minister under the *Water Act 1989* (Vic) to approve water share dealings such as transferring, dividing, consolidating, issuing and cancelling a water share and the trade of water allocations.

45 Victorian Department of Environment, Land, Water and Planning, (2016), Fourth Tranche of Environment Contribution, viewed 5 March 2018, <https://www.water.vic.gov.au/planning-and-entitlements/environmental-contributions/fourth-tranche-of-the-environmental-contribution>

46 These revenues exclude revenue from bulk water services, bulk sewerage services, metropolitan drainage and water services and certain other revenue sources. See: Victoria, Victorian Government Gazette, No. G25, Thursday 23 June 2016, pp. 1530-1532.

Certain miscellaneous WPM charges are regulated by the Essential Services Commission.⁴⁷

GMW gained its WPM revenue entirely through revenue collected from transaction charges levied in the MDB.

GWMW collected its revenue from fixed water access right charges and transaction charges levied in the MDB. In its RFI, GWMW reported a majority of its costs as capital costs and the remainder as operating costs; providing a percentage range of corporate costs rather than a figure.

LMW total WPM revenue was mainly raised from fixed entitlement charges.

2.3.6 Department of Environment, Water and Natural Resources, South Australia

Regulated WPM charges are determined by the SA government and covered under the *Natural Resource Management Act 2004* (SA), and Natural Resources Management (General) Regulations 2005 (SA).

DEWNR's total WPM revenue is based on revenue collected from:

- the Division 2 water levies
- water license, permit and approval fees, and
- metering charges.

These WPM revenue estimates relate to WPM charges levied within the MDB.⁴⁸

WPM expenditure included in the report covers only that expenditure funded by WPM charges and South Australian State Government financial contributions.

47 Goulburn-Murray Water, 'Information on water planning and management charges levied and determined by Goulburn-Murray Water', p.5, http://www.g-mwater.com.au/downloads/gmw/customerServices/feesAndCharges/TATDOC-3204018-v2-PLANNING_MANAGEMENT_INFORMATION_RULES_FEE_DESCRIPTIONS_-_2011_12.pdf, viewed 16 February 2018.

Lower Murray Water, 'Information on water planning and management charges levied and determined by Lower Murray Water', p.4, <http://www.lmw.vic.gov.au/LowerMurrayWaterSite/media/FactSheetsBrochures/Govt%20Issued/WCPMIRulesPublication2011-2012.pdf>, viewed 16 February 2018.

48 Natural Resources Committee (Parliament of South Australia), Natural Resources South Australia Business Plans and Regional Levies 2016-17 Committee Report, 7 June 2016, p. 13.

3. Infrastructure Operators

This section relates to the analysis presented in chapter 4 which covers on-river infrastructure operators and chapter 5 which covers off-river infrastructure operators in the Water Monitoring Report 2016–17.

As discussed in Appendix A1 of the report, infrastructure operators typically provide on-river infrastructure services, off-river infrastructure services or both.

On-river infrastructure services include harvesting and storing water through infrastructure, such as dams, lakes, weirs and reservoirs, and delivering water, primarily through natural watercourses, to an extraction point on a natural watercourse. An on-river infrastructure operator ('on-river IO') imposes on-river infrastructure charges to recover costs associated with these services.

Off-river infrastructure services include the transportation and delivery of water from the natural watercourse through a network consisting of channels and/or pipes to a customer's extraction points. An off-river infrastructure operator ('off-river IO') imposes off-river infrastructure charges recover the costs associated with providing customers with these services. Irrigation infrastructure operators (IIOs) are a subset of off-river IOs who own or operate infrastructure for the primary purpose of irrigation.

3.1 ACCC approach to monitoring

The ACCC produces hypothetical bills for infrastructure operators that provide a basis for the comparison of regulated water charges across different infrastructure operators with different charging arrangements and tariff structures. The hypothetical bills and corresponding analysis provides a simple representation of how regulated charges translate into a typical customer bill.

The ACCC produces hypothetical bills for:

- a typical customer located on-river (which may be either a private diverter or an off-river IO)
- a typical customer located off-river, having water delivered through a network from the natural watercourse extraction point(s), and
- the maximum termination fee an IIO can levy on a customer terminating their right of access.⁴⁹

This section sets out the assumptions used in the production of hypothetical bills and hypothetical termination fees.

3.2 Hypothetical bills—on-river infrastructure operators

We prepared hypothetical bills for 36 charge categories within a number of geographical areas across six on-river IOs. The analysis consists of two scenarios for each on-river IO and their respective charge categories—1000 ML of water access entitlement and either 50 per cent or 100 per cent of that volume being delivered.

⁴⁹ The maximum termination fee analysed is calculated in accordance with the Water Charge (Termination Fees) Rules 2009, <https://www.legislation.gov.au/Details/F2009L02425> viewed 8 February 2018

The charges assumed to be payable by a 'typical' customer for which each hypothetical bill is calculated are determined after assessing each on-river IO's response to the ACCC's annual requests for information (RFI) and through discussions with each on-river IO.

The selection of charges for hypothetical bills in this way is aimed at producing hypothetical bills that reflect all the regulated water charges imposed on a typical on-river IO customer who receives on-river infrastructure services for the storage and delivery of water.

Actual individual on-river customer bills will depend on the nature of their water holdings and will not correspond directly with the ACCC's hypothetical bills. Further, the ACCC's analysis does not account for behaviour that may alter the amount of an irrigator's actual bill such as trade and carry-over.

3.2.1 Goulburn-Murray Water, Victoria

The analysis assumes one hypothetical customer in each charge category within two systems (nine hypothetical customers).

In the Goulburn system, it is assumed there is one hypothetical customer for each of:

- Bulk⁵⁰– Loddon
- Bulk – Bullarook
- Bulk – Campaspe
- Bulk – Goulburn
- Bulk – Broken
- Private Diverter – all basins

In the Murray system, it is assumed there is one hypothetical customer for each of:

- Bulk – Ovens
- Bulk – Murray
- Private Diverter – all basins

It is further assumed that a:

- bulk water customer holds 1000 ML of high reliability bulk water entitlement. Bulk water customers may include GMW's retail arm, urban and rural water authorities and commercial businesses.
- private diverter
 - is an irrigator who extracts water directly from a natural watercourse
 - holds 1000 ML of high reliability water access entitlement (Victorian water share)
 - holds 10 extraction shares⁵¹ based on the Victorian conversion rules used at the time of unbundling and
 - has 2 large-sized service points.

50 'Bulk' refers to a customer who holds a Victorian bulk water entitlement.

51 An extraction share is a share of the total amount of water that can be drawn from regulated rivers at a certain point over a given period of time. Extraction shares are used to restrict water extraction in times of high demand. From: Victorian Water Register, 'Water Dictionary', https://waterregister.vic.gov.au/about/index.php?option=com_glossary&view=items&Itemid=136&term_id=28, viewed 8 February 2018.

The 2016-17 hypothetical bill analysis includes the following charges for each type of customer:

Bulk water entitlement holders

- Fixed:
 - bulk water high reliability entitlement.

Private diverters

- Fixed:
 - high reliability water share entitlement storage fee
 - service fee
 - access fee (regulated waterways)
 - service point fee (large)

These charges are imposed (where relevant) on the GMW customers in any of the basins in the Murray or Goulburn systems, although the actual amount of these charges will differ depending on the basin or system.

GMW's on-river customers do not pay specific WPM charges. However, GMW must pay two per cent of its allowed revenues as its share of the Victorian Environmental Contribution (see section 2.3 above or chapter 3 of the 2016-17 Water Monitoring Report for more information on the Environmental Contribution).

GMW's schedule of charges for both its on and off-river infrastructure services can be found at section 3.3.3.

3.2.2 Lower Murray Water (LMW), Victoria

The analysis assumes a private diverter in the Victorian River Murray.

It is further assumed that the private diverter:

- holds 1000 ML of high reliability water access entitlement (Victorian water share) and an equivalent volume of annual use limit
- holds 10 extraction shares based on the Victorian conversion rules used at the time of unbundling and
- has one account, and thus incurs the service charge once.

The 2016-17 hypothetical bill analysis includes the following charges for private diverters:

Fixed:

- service charge
- operational fee
- entitlement storage fee (Murray Basin)
- DELWP water share fee.

The entitlement storage fee is an on-river infrastructure charge imposed on LMW by GMW. LMW classifies its service charge, operational fee and DELWP water share fee as WPM charges.

LMW's schedule of charges for both its on and off-river infrastructure services can be found at section 3.3.4.

3.2.3 WaterNSW, NSW

WaterNSW has both private diverter customers and other customers such as off-river IOs and urban water authorities. The charges for a given valley and entitlement reliability do not vary based on the type of customer (i.e. private diverters pay the same charges as other on-river customers⁵²). Therefore, the ACCC has produced one set of hypothetical bills for an on-river customer holding 1000 ML of water access entitlement (NSW water access licence).

The analysis assumes 16 WaterNSW customers, two per valley—one holding high security water access entitlement and the other holding general security water access entitlement. Hypothetical bills are produced for each NSW regulated river valley in the MDB, namely:

- Murray
- Murrumbidgee
- Lachlan
- Macquarie
- Namoi
- Peel
- Gwydir
- Border

The 2016-17 hypothetical bill analysis includes the following charges:

Fixed:

- WaterNSW access (entitlement) charge
- DPI Water access (entitlement) charge

Variable:

- WaterNSW usage fee
- DPI Water usage fee

The DPI Water access and usage charge are WPM charges imposed by DPI Water and collected by WaterNSW from its customers on behalf of DPI Water.

The ACCC sourced WaterNSW's 2016-17 schedule of charges from its website:

<http://www.waternsw.com.au/customer-service/ordering-trading-and-pricing/pricing/rural/regulated-charges>.⁵³

52 However, certain off-river operators receive a rebate on their charges, known as the 'Irrigation Corporations and District Rebate' (ICD rebates). These are lump-sum rebates given by WaterNSW to certain off-river operators for activities that result in avoided costs for WaterNSW or have externalities which benefit customers outside these off-river IOs. This includes cost savings in billing and metering, and 'some system wide benefits of some of the environmental and licensing information collected by the ICDs as part of their business operations'. This rebate is not accounted for in the ACCC's on-river hypothetical bill analysis. For further information on ICD rebates, see ACCC, *ACCC Final Decision on State Water Pricing Application: 2014–15 to 2016-17*, June 2014, p. 22, <https://www.accc.gov.au/system/files/ACCC%20Final%20Decision%20on%20State%20Water%202014-17%20pricing%20application%20%282%20July%202014%29.pdf>, viewed 8 February 2018.

53 Viewed 8 February 2018

REGULATED CHARGES

WaterNSW Regulated River prices for 1 July 2016 - 30 June 2017

All prices are per megalitre

RIVER / VALLEY	HIGH SECURITY	GENERAL SECURITY	USAGE	HIGH AND GENERAL SECURITY	USAGE
	<i>WaterNSW</i>			<i>WAMC* charges collected by WaterNSW</i>	
Border	\$6.90	\$2.42	\$6.60	\$2.16	\$1.69
Gwydir	\$14.13	\$3.47	\$12.13	\$1.41	\$1.22
Namoi	\$17.29	\$8.25	\$20.26	\$2.59	\$1.74
Peel	\$35.27	\$3.88	\$58.26	\$2.29	\$4.06
Macquarie	\$16.17	\$3.62	\$16.97	\$1.62	\$1.75
Lachlan and Belubula	\$16.48	\$3.28	\$21.12	\$1.96	\$1.82
Murrumbidgee	\$3.07	\$1.27	\$3.54	\$1.24	\$0.82
Lowbidgee	n/a	\$0.84	n/a	n/a	n/a
Murray and Lower Darling	\$1.78	\$0.97	\$2.31	\$1.46	\$1.04
North Coast *	\$9.54	\$7.25	\$45.04	\$3.76	\$5.80
South Coast *	\$21.12	\$10.09	\$40.38	\$3.17	\$5.04
Hunter and Paterson *	\$26.03	\$8.86	\$14.77	\$2.72	\$1.86
				(Minimum annual charge \$151.95)	
				* Water Administration Ministerial Corporation	

Pass through Charges					
Border	\$4.22	\$1.49	\$4.03	-	-
Gwydir	-	-	-	-	-
Namoi	-	-	-	-	-
Peel	-	-	-	-	-
Macquarie	-	-	-	-	-
Lachlan and Belubula	-	-	-	-	-
Murrumbidgee	\$0.72	\$0.29	\$0.82	-	-
Lowbidgee	-	-	-	-	-
Murray	\$3.22	\$1.74	\$4.17	-	-
North Coast *	-	-	-	-	-
South Coast *	-	-	-	-	-
Hunter and Paterson *	-	-	-	-	-
	Total Charges collected by WaterNSW			Total charges collected by WaterNSW**	
Border	\$11.12	\$3.91	\$10.63	\$2.16	\$1.89
Gwydir	\$14.13	\$3.47	\$12.13	\$1.41	\$1.22
Namoi	\$17.29	\$8.25	\$20.26	\$2.59	\$1.74
Peel	\$35.27	\$3.88	\$58.26	\$2.29	\$4.06
Macquarie	\$16.17	\$3.62	\$16.97	\$1.62	\$1.75
Lachlan and Belubula	\$16.48	\$3.28	\$21.12	\$1.38	\$1.82
Murrumbidgee	\$3.79	\$1.56	\$4.36	\$1.24	\$0.82
##					
Lowbidgee	n/a	\$0.84	n/a	n/a	n/a
Murray	\$5.00	\$2.71	\$6.48	\$1.46	\$1.04
North Coast *	\$9.54	\$7.25	\$45.04	\$3.76	\$5.80
South Coast *	\$21.12	\$10.09	\$40.38	\$3.17	\$5.04
Hunter and Paterson *	\$26.03	\$8.86	\$14.77	\$2.72	\$1.86

* IPART 2014, Media Release, Water Management and Bulk Water Prices to Remain at Current Levels, 14 July 2014.

**All prices determined by IPART for WAMC

Yanco Colombo System Levy – an additional charge applies to Yanco Colombo System licences – charged in final quarter invoice based on \$0.90 per ML/unit share of entitlement.

Allocation trade processing charges – \$39.01 per application and \$0.51 per ML of allocation traded (up to a maximum of \$153.98 per trade).

IPART will determine prices commencing 1 July 2017 and beyond.

WaterNSW Fish River prices for 1 July 2016 - 30 June 2017

Pricing as determined by the Australian Consumer and Competition Commission (ACCC)

	ACCESS	USAGE	EXCESS USAGE
Raw water (\$/kl)			
Energy Australia#	\$0.36	\$0.42	n/a
Oberon Council†	\$0.38	\$0.43	\$0.81
Individual minor customers	\$71.27	\$0.42	\$0.78
Filtered water (\$/kl)			
Lithgow Council†	\$0.57	\$0.61	\$1.18
Individual minor customers	\$137.95	\$0.78	\$1.47

Pricing as determined by the Australian Consumer and Competition Commission (ACCC)

† IPART 2014, Media Release, Water Management and Bulk Water Prices to Remain at Current Levels, 14 July 2014 until 1 July 2017.

IPART will determine prices commencing 1 July 2017 and beyond

Notes

Fish River connection charge is \$473.51 Fish River disconnection charge is \$263.06.

For Individual Minor Customers the usage charge is levied for usage up to 200kL. The excess usage charge is levied for usage above 200kL.

Invoices are biannual with charges raised in arrears.

WaterNSW Metering Service Charge (MSC) for 1 July 2016 - 30 June 2017

TYPE OF METER	CWLTH - FUNDED METERS WITH TELEMETRY	CWLTH - FUNDED METERS WITHOUT TELEMETRY	WATERNSW - FUNDED METERS WITH TELEMETRY	WATERNSW - FUNDED METERS WITHOUT TELEMETRY
50mm	\$398.65	\$414.72	\$1,344.53	\$1,076.97
80mm	\$398.79	\$414.86	\$1,352.60	\$1,085.04
100mm	\$399.55	\$415.65	\$1,397.65	\$1,130.09
150mm	\$420.27	\$436.34	\$1,498.58	\$1,231.03
200mm	\$442.79	\$458.86	\$1,558.42	\$1,290.86
250mm	\$448.46	\$464.53	\$1,636.55	\$1,368.99
300mm	\$450.46	\$466.53	\$1,755.18	\$1,487.61
350mm	\$463.04	\$479.11	\$2,202.39	\$1,934.83
400mm	\$515.41	\$531.48	\$2,586.75	\$2,319.19
450mm	\$623.99	\$639.68	\$2,785.81	\$2,517.88
500mm	\$633.40	\$649.09	\$2,982.73	\$2,714.78
600mm	\$667.59	\$683.29	\$3,371.25	\$3,103.32
700mm	\$681.27	\$696.97	\$3,739.47	\$3,471.54
750mm	\$682.95	\$698.64	\$3,839.18	\$3,571.24
800mm	\$720.82	\$736.51	\$4,424.93	\$4,156.98
900mm	\$775.11	\$790.80	\$4,652.60	\$4,384.67
1000mm	\$780.59	\$796.28	\$4,978.85	\$4,710.92
Channel	\$7,637.95	n/a	\$13,583.68	n/a

Notes:

- *The MSC will be invoiced quarterly in arrears and will arrive with your regular WaterNSW invoice*
- *Should you have a concern regarding the accuracy of the meter, in the first instance please call the **WaterNSW helpdesk on 1300 662 077**. If you then elect to have your meter tested, a deposit of \$1,710.26 is payable prior to testing. The deposit will be refunded in full, should your meter be proved inaccurate **
- *The ACCC has introduced an Environmental Gauging Station charge of \$8,789.45 per site. The ACCC determined this charge based on the capital costs of upgrading environmental gauging stations and the incremental cost of operating the upgraded stations. The ACCC Final Decision states that this charge has been calculated without double counting the base operating costs.*

WaterNSW Irrigation Corporation District (ICD) rebates 1 July 2016 - 30 June 2017

CUSTOMERS	TOTAL ANNUAL REBATE (\$)
Murray Irrigation	\$920,571
Western Murray Irrigation	\$32,166
West Corugan	\$51,088
Moira Irrigation Scheme	\$25,527
Eagle Creek Scheme	\$9,004
Murrumbidgee Irrigation	\$645,608
Coleambally Irrigation	\$283,320
Jemalong Irrigation	\$62,640

The ACCC determined the above rebates to irrigation corporations and districts because of their view that WaterNSW incurs lower service delivery costs to provide water to these schemes and the system-wide benefits that the scheme provide.

3.2.4 Department of Natural Resources, Mines & Energy (DNRME), Queensland

The analysis assumes one Queensland DNRME private diverter holding 1000 ML of water access entitlement (Queensland water allocation) located within the Dumaresq River water management area in the Border Rivers resource operations plan area.

The 2016-17 hypothetical bill analysis includes the following charges for customers listed on DNRME's schedule of charges (Dumaresq River water management area).

Fixed:

- Fixed entitlement charge (Part A)

Variable:

- Variable usage charge (Part B)

The charges for Dumaresq River water management area for 2016-17 are shown in DNRME's schedule of charges (schedule 14) in section 2.2.1 above.

3.2.5 SunWater, Queensland

The analysis assumes eight SunWater private diverters holding 1000 ML of water access entitlement (Queensland water allocation), located in the following areas of the Queensland MDB:

- Cunnamulla
- Chinchilla Weir
- Macintyre Brook
- Maranoa Weir St George
- Upper Condamine—further divided into the following three pricing categories/areas:
 - North branch
 - North branch Risk A
 - Sandy Creek/Condamine River.

The 2016-17 hypothetical bill analysis includes the following charges for customers:

- Fixed; allocation charge – bulk water charge part A
- Variable; allocation water – bulk water charge part B

SunWater's schedule of charges for both its on and off-river infrastructure services can be found below.

Fees & Charges Schedule 2016-2017

effective from 1 July 2016 v.2



ST GEORGE Water Supply Scheme

Charges subject to the Rural Irrigation Water Pricing Direction

Product		\$ / ML
Regulated Section Beardmore Dam or Balonne River	Allocation Charge	Bulk Water Charge – Part A 20.35
	Allocation Water	Bulk Water Charge - Part B 1.28
Regulated Section Thuraggi Watercourse	Allocation Charge	Bulk Water Charge – Part A 20.35
	Allocation Water	Bulk Water Charge - Part B 1.28
Channel	Allocation Charge	Bulk Water Charge – Part A 20.35
	Allocation Charge – Channel Distribution	Channel Distribution - Part C 32.66
	Allocation Water	Bulk Water Charge – Part B 1.28
	Allocation Water – Channel Distribution	Channel Distribution - Part D 5.61
Channel Harvesting	Channel Harvesting - Distribution and Consumption Charge	5.61
Drainage Diversion – Metered	based on metered diversion up to maximum volume	13.64
Drainage Diversion – Pump	unmetered diversion minimum charge \$ 11.05 per ML based on maximum volume being assumed diverted	11.05

Permanent Transfer Termination Fees **			
To / From	St George Channel	Regulated Section Beardmore Dam/ Balonne River	Regulated Section Thuraggi Watercourse
St George Channel	Nil	\$ 359.26/ ML	\$ 359.26/ ML
Regulated Section Beardmore Dam/ Balonne River	Nil	Nil	Nil
Regulated Section Thuraggi Watercourse	Nil	Nil	Nil

Charges set by Regulator

From 1 July	Product	\$ / ML
Channel Harvesting	Regulators Water Charge – Beardmore / Thuraggi ~	4.30
Drainage Rate - Irrigable	per ha of irrigable land ~	26.25

54

⁵⁴ SunWater, (2018), St George Water Supply Scheme - Fees and Charges Schedule 2016-17, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

Fees & Charges Schedule 2016-2017

effective from 1 July 2016 v.2



ST GEORGE Water Supply Scheme

Charges set by SunWater

Commercial Charges		Product		\$ / ML
Upper Bound River	Medium Priority	Allocation Charge	Bulk Water Charge – Part A	105.63
		Allocation Water	Bulk Water Charge – Part B	1.26
Upper Bound Channel	Medium Priority	Allocation Charge	Bulk Water Charge – Part A	105.63
		Allocation Charge – Channel	Channel Distribution - Part C	59.15
		Allocation Water	Bulk Water Charge – Part B	1.26
		Allocation Water – Channel	Channel Distribution - Part D	5.50
Local Government		Allocation Charge	Bulk Water Charge – Part A	59.60
		Allocation Water More than 0.6 ML	Bulk Water Charge – Part B	1.27

Other Charges		\$
Administration and Transfer Fee – Sale**	per transfer	299.00
Administration and Transfer Fee – Lease**	per transfer	459.00
Channel Harvesting Channel Harvesting Diversion Volume Fee item 6 of contract schedule	per ML	4.03
Disconnection Permanent removal of meter outlet. Charges vary depending on costs of disconnection.	price provided on application.	
Meter Testing Minimum charge \$ 138.00 Refund of meter testing charge may apply if meter is found to be faulty	per hour	138.00
New or Additional Meter Application ** Costs for design, construction and installation are charged separately	per application	751.00
Reconnection	price provided on application.	
Relocation ** Subject to application and prior approval	price provided on application.	
Riparian Allowance	per ML	0.00
Relocation Application Fee **	per application	130.00
Short Term Supply eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year	price provided on application.	
Special Meter Readings Minimum charge \$ 138.00	per hour	138.00
Temporary Transfer Adjustment Fee ***	River	per ML 85.28
	Channel	per ML 111.77
Transformation Fee**	per application	516.00
Water Allocation Register Search Fee ** ~	per search	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third parties, Subject to change.

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⁵⁵ Ibid

CHINCHILLA WEIR *Water Supply Scheme*

Charges subject to the Rural Irrigation Water Pricing Direction

	Product		\$/ ML
River	Allocation Charge	Bulk Water Charge – Part A	28.01
	Allocation Water	Bulk Water Charge – Part B	3.21

Charges set by SunWater

Commercial Charges	Product		\$/ ML
Upper Bound – River Medium Priority	Allocation Charge	Bulk Water Charge – Part A	55.41
	Allocation Water	Bulk Water Charge – Part B	3.16
Upper Bound – River High Priority	Allocation Charge	Bulk Water Charge – Part A	806.41
	Allocation Water	Bulk Water Charge – Part B	3.16
Commercial	Allocation Charge	Bulk Water Charge – Part A	167.97
	Allocation Water	Bulk Water Charge – Part B	18.18
Local Government	Allocation Charge	Bulk Water Charge – Part A	71.12
	Allocation Water	Bulk Water Charge – Part B	3.17

Other Charges			\$
Administration and Transfer Fee – Sale**		per transfer	299.00
Administration and Transfer Fee – Lease**		per transfer	459.00
Disconnection	Permanent removal of meter outlet Charges vary depending on costs of disconnection.	price provided on application.	
Meter Testing	Minimum Charge \$ 138.00 Refund of meter testing charge may apply if the meter is found to be faulty	per hour	138.00
New or Additional Meter Application **	Costs for design, construction and installation are charged separately	per application	751.00
Reconnection		price provided on application.	
Riparian Allowance		per ML	0.00
Short Term Supply	eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year	price provided on application.	
Special Meter Readings	Minimum Charge \$ 138.00	per hour	138.00
Stream Flow Period		per ML	3.21
Temporary Transfer Adjustment Fee ***		Per ML	27.40
Water Allocation Register Search Fee ** ~		per search	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third party. Subject to change.

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⁵⁶ SunWater, (2018), Chinchilla Weir Water Supply Scheme, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

UPPER CONDAMINE *Water Supply Scheme*

Charges subject to the Rural Irrigation Water Pricing Direction

		Product	\$ / ML	
North Branch		Allocation Charge	Bulk Water Charge – Part A	44.24
		Allocation Water	Bulk Water Charge – Part B	14.11
North Branch – Risk A		Allocation Charge	Bulk Water Charge – Part A	12.48
		Allocation Water	Bulk Water Charge – Part B	14.11
Sandy Creek or Condamine River		Allocation Charge	Bulk Water Charge – Part A	31.60
		Allocation Water	Bulk Water Charge – Part B	5.17

Charges set by SunWater

Commercial Charges		Product		\$ / ML
Upper Bound – River	Medium Priority	Allocation Charge	Bulk Water Charge – Part A	153.14
		Allocation Water	Bulk Water Charge – Part B	9.27
Upper Bound – River	High Priority	Allocation Charge	Bulk Water Charge – Part A	456.35
		Allocation Water	Bulk Water Charge – Part B	9.27
Upper Bound – North Branch	Medium Priority	Allocation Charge	Bulk Water Charge – Part A	207.60
		Allocation Water	Bulk Water Charge – Part B	9.27
Upper Bound – North Branch	High Priority	Allocation Charge	Bulk Water Charge – Part A	508.74
		Allocation Water	Bulk Water Charge – Part B	9.27
Local Government		Allocation Charge	Bulk Water Charge – Part A	456.35
		Allocation Water	Bulk Water Charge – Part B	9.27
Local Government - Sandy Creek		Allocation Charge	Bulk Water Charge – Part A	456.30
		Allocation Water	Bulk Water Charge – Part B	9.28
Risk B		Allocation Charge	Bulk Water Charge – Part A	0.00
		Allocation Water	Bulk Water Charge – Part B	26.59
Treated Reticulated Water		Allocation Charge	Bulk Water Charge – Part A	655.37
		Allocation Water	Bulk Water Charge – Part B	0.00

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⁵⁷ SunWater, (2018), Upper Condamine Weir Water Supply Scheme, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

UPPER CONDAMINE *Water Supply Scheme*

Charges set by SunWater

Other Charges	\$
Administration and Transfer Fee – Sale**	299.00
Administration and Transfer Fee – Lease**	459.00
Disconnection Permanent removal of meter outlet Charges vary depending on costs of disconnection.	price provided on application.
Meter Testing Minimum Charge \$138.00 Refund of meter testing charge may apply if the meter is found to be faulty	138.00
New or Additional Meter Application ** Costs for design, construction and installation are charged separately	751.00
Reconnection	price provided on application.
Relocation ** Subject to application and prior approval	price provided on application.
Riparian Allowance	0.00
Risk A Water	14.11
Relocation Application Fee **	130.00
Short Term Supply eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year	price provided on application.
Special Meter Readings Minimum Charge \$138.00	138.00
Stream Flow Period	5.17
	14.11
Temporary Transfer Adjustment Fee ***	121.54
	163.36
Water Allocation Register Search Fee ** ~	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third party. Subject to change.

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⁵⁸ Ibid

MARANOA RIVER *Water Supply Scheme*

Charges subject to the Rural Irrigation Water Pricing Direction

Product		\$ / ML	
River	Allocation Charge	Bulk Water Charge – Part A	49.37
	Allocation Water	Bulk Water Charge – Part B	60.36

Charges set by SunWater

Commercial Charges	Product	\$ / ML	
Upper Bound – River Medium Priority	Allocation Charge	Bulk Water Charge – Part A	1,429.48
	Allocation Water	Bulk Water Charge – Part B	59.41

Other Charges		\$	
Administration and Transfer Fee – Sale**		per transfer	299.00
Administration and Transfer Fee – Lease**		per transfer	459.00
Disconnection Permanent removal of meter outlet Charges vary depending on costs of disconnection.		price provided on application.	
Meter Testing Minimum Charge \$ 138.00 Refund of meter testing charge may apply if the meter is found to be faulty		per hour	138.00
New or Additional Meter Application ** Costs for design, construction and installation are charged separately		per application	751.00
Reconnection		price provided on application.	
Riparian Allowance		per ML	0.00
Short Term Supply eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year		price provided on application.	
Special Meter Readings Minimum Charge \$ 138.00		per hour	138.00
Temporary Transfer Adjustment Fee ***		per ML	1380.11
Water Allocation Register Search Fee ** ~		per search	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third party. Subject to change.

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⁵⁹ SunWater, (2018), Maranoa River Water Supply Scheme, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

CUNNAMULLA Water Supply Scheme

Charges subject to the Rural Irrigation Water Pricing Direction

Product		\$ / ML
River	Allocation Charge	29.49
	Allocation Water	3.32

Charges set by SunWater

Commercial Charges	Product	\$ / ML
Upper Bound – River Medium Priority	Allocation Charge	197.94
	Allocation Water	3.27

Other Charges		\$
Administration and Transfer Fee – Sale**	per transfer	299.00
Administration and Transfer Fee – Lease**	per transfer	459.00
Disconnection Permanent removal of meter outlet Charges vary depending on costs of disconnection.	price provided on application.	
Meter Testing Minimum Charge \$138.00 Refund of meter testing charge may apply if the meter is found to be faulty	per hour	138.00
New or Additional Meter Application ** Costs for design, construction and installation are charged separately	per application	751.00
Reconnection	price provided on application.	
Riparian Allowance	per ML	0.00
Short Term Supply eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year	price provided on application.	
Special Meter Readings Minimum Charge \$138.00	per hour	138.00
Temporary Transfer Adjustment Fee ***	per ML	168.45
Water Allocation Register Search Fee ** ~	per search	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third party. Subject to change.

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⁶⁰ SunWater, (2018), Cunnamulla Water Supply Scheme, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

MACINTYRE BROOK Water Supply Scheme

Charges subject to the Rural Irrigation Water Pricing Direction

		Product	\$/ ML
Macintyre Brook	Allocation Charge	Bulk Water Charge – Part A	43.91
	Allocation Water	Bulk Water Charge – Part B	4.22
Commonwealth Environmental Water Holder	Allocation Charge	Bulk Water Charge – Part A	45.15
	Allocation Water	Bulk Water Charge – Part B	4.22

Charges set by SunWater

Commercial Charges			Product	\$/ ML
Upper Bound – River Medium Priority	Allocation Charge	Bulk Water Charge – Part A		256.86
	Allocation Water	Bulk Water Charge – Part B		4.16
Upper Bound – River High Priority	Allocation Charge	Bulk Water Charge – Part A		514.32
	Allocation Water	Bulk Water Charge – Part B		4.16
Commercial	Allocation Charge	Bulk Water Charge – Part A		250.65
	Allocation Water	Bulk Water Charge – Part B		9.62
Local Government	Allocation Charge	Bulk Water Charge – Part A		290.16
	Allocation Water	Bulk Water Charge – Part B		20.05
Treated Reticulated Water	Allocation Charge	Bulk Water Charge – Part A		655.37
	Allocation Water	Bulk Water Charge – Part B		0.00

^A Some customers have Part B charges which differ from those set out. The Part B charges for those customers are in accordance with the relevant contractual arrangements for those customers.

Other Charges		\$
Administration and Transfer Fee – Sale**	per transfer	299.00
Administration and Transfer Fee – Lease**	per transfer	459.00
Disconnection Permanent removal of meter outlet Charges vary depending on costs of disconnection.	price provided on application.	
Meter Testing Minimum Charge \$ 138.00 Refund of meter testing charge may apply if the meter is found to be faulty	per hour	138.00
New or Additional Meter Application ** Costs for design, construction and installation are charged separately	per application	751.00
Reconnection	price provided on application.	
Riparian Allowance	per ML	0.00
Short Term Supply eg. construction, roadworks, excludes irrigation Maximum period: Within the current water year	price provided on application.	
Special Meter Readings Minimum Charge \$ 138.00	per hour	138.00
Temporary Transfer Adjustment Fee ***	per ML	212.95
Water Allocation Register Search Fee ** ~	per search	22.53

** Fees are GST inclusive.

*** A transfer adjustment fee is payable where subsidised rural irrigation water is temporarily transferred for non-irrigation usage that is not subject to the State Government's rural irrigation water pricing direction.

~ Tariff applicable as set by third party. Subject to change.

61

⁶¹ SunWater, (2018), Macintyre Brook Water Supply Scheme, http://www.sunwater.com.au/data/assets/pdf_file/0007/18997/Fees_Charges_Schedule_-_St_George_2016-17-V2.pdf, viewed 8 February 2018

3.2.6 South Australian Murray private diverter, South Australia

South Australian water users do not receive any on-river infrastructure services from an on-river IO located in SA. However, private diverters along the Murray River in SA are required to pay WPM charges and therefore hypothetical bills have been produced for customers located on-river.

The 2016-17 hypothetical bill analysis for private diverters includes the following WPM charge:

- NRM Water Levy.

The level of NRM Water Levy charges in the SAMDB for 2016-17 can be found at section 2.2.5 of this document.

3.3 Hypothetical bills—off-river infrastructure operators

Hypothetical bills were constructed using assumptions about typical customers' charging profile for each reporting IIO holding over 10 GL of water access entitlement.⁶² The typical irrigator charging profile is assessed from each IIO's response to the ACCC's annual RFI and discussions with each off-river IO.

Several of the larger IIOs have tariff structures in which charges differ based on network and/or the customer's water access entitlement (WAE)/irrigation right (IR) category. Customers were categorised by either the network they used or their WAE/IR category. This resulted in 39 customer profiles across 19 reporting off-river IIOs.

For each customer profile, six different hypothetical bills were constructed, reflecting:

- three different volumes of water access entitlements (or irrigation right for relevant SA and NSW customers) and a corresponding volume of water delivery right of 50 ML, 250 ML and 1000 ML
- two different levels of water delivery – either 50 per cent or 100 per cent of entitlement.

For example, for the 250 ML of water access entitlement scenario, hypothetical bills were constructed assuming either 125 ML or 250 ML water was delivered to the customer. The majority of analysis presented in the main report relates to an irrigator holding 250 ML of water access entitlement.

The hypothetical bill analysis includes:

- off-river infrastructure charges identified as being payable by the 'typical' irrigator
- all charges listed on an IIO's schedule of charges that relate to WPM and on-river infrastructure charges which are incurred by the operator and passed through to its customers.⁶³

Where an IIO presents a single 'government charge' on their schedule of charges which includes both WPM and on-river infrastructure charges, the ACCC has separated out the components attributable to on-river infrastructure charges and the components attributable to WPM charges in conjunction with the relevant off-river IO. This document sets out all the IIO-specific assumptions and calculations used to separate the on-river infrastructure and WPM charge components.

Actual individual bills for customers located off-river will depend on the nature of their water holdings and network access and may not correspond directly with the ACCC's hypothetical bills. Further, the ACCC's analysis does not account for irrigator behaviour that may alter the amount of the bill, for example allocation trade, casual user arrangements, carryover decisions and the timing of water delivery.

62 The ACCC consulted IIOs before deciding which charges to include in hypothetical customer bills.

63 On-river and off-river infrastructure charges are levied directly on customers by the infrastructure operator when the infrastructure operator provides both on-river and off-river infrastructure services (for example, GMW and SunWater). On-river infrastructure charges are passed onto the customer when an off-river infrastructure operator is not also the relevant on-river infrastructure operator.

3.3.1 Central Irrigation Trust (CIT), South Australian Murray

Off-river IO hypothetical bill

The analysis is for three hypothetical bills, calculated for an irrigator located in one of the CIT districts other than Golden Heights or Sunlands⁶⁴ receiving a:

- high pressure service
- medium pressure service, or
- low pressure service.⁶⁵

Further, each hypothetical bill assumes that the irrigator:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML)
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively)
- has an irrigation connection on the property—meaning no drainage charge applies (as this charge is only levied on customers that do not have an irrigation connection) and
- is supplied with irrigation water at a proportion of 65 per cent at off-peak times and 35 per cent at peak times.

The 2016-17 hypothetical bill analysis includes the following three charges for each of the three types of services selected from CIT's schedule of charges:

Fixed:

- Irrigation service charge (levied per ML of water delivery right held)
- Natural Resource Management Water levy (levied per ML of irrigation right held).

Variable:

- Water consumption charge (peak), high, medium and low pressure depending on the service (levied per ML of water delivered in peak period)
- Water consumption charge (off-peak), high, medium and low pressure depending on the network (levied per ML of water delivered in off-peak period).

Given that CIT's schedule of charges comes into effect on 1 October each year, this analysis uses a weighted average of the 2015–16 and 2016-17 schedules of charges.

The Natural Resource Management Water levy is a WPM charge. CIT's irrigation customers do not pay any on-river infrastructure charges as there is no on-river IO in SA.

64 CIT operates the following irrigation districts: Berri, Cadell, Chaggey, Cobdogla, Golden Heights, Kingston, Loxton, Lyrup, Moorook, Myponga, Sunlands and Waikerie. CIT's tariff structure applies one set of charges for districts other than Golden Heights and Sunlands (although variable charges do depend on whether low, medium or high pressure services are received), and individual charges for each of the Golden Heights and Sunlands districts, due to unique circumstances in those districts.

65 The low pressure network service relates to Berri, Chaffey (Ral Ral), Cobdogla, Kingston, Lyrup, Moorook & Waikerie. The medium pressure network service relates to Cadell and Myponga. The high pressure network service relates to Chaffey (Cooltong) & Loxton. Hypothetical bills are not calculated for irrigators using the high lift high pressure irrigation service.

2016-17 Schedule of charges

CIT provided the schedules of charges below to the ACCC as part of its response to the ACCC's request for information. The ACCC had sourced previous versions from CIT's website: <http://cit.org.au/>. One schedule applied from 1 July 2016 until 30 September 2016 and a second from 1 October 2016 for the rest of the financial year. The hypothetical bills are based on a weighted average of charges, with a weighting of 25% for the first schedule and 75% for the second.

CIT schedule of charges – Applicable from 1 October 2015 to 30 September 2016



CENTRAL IRRIGATION TRUST

WATER PRICES 2015/16

The Berri, Cadell, Chaffey, Cobdogla, Golden Heights, Kingston, Loxton, Lyrup, Moorook, Mypolonga, Sunlands and Waikerie Irrigation Trusts have declared the following prices **effective 1 October 2015 (unless otherwise noted)**

SERVICE CHARGES		
IRRIGATION SERVICE (All districts except Golden Heights & Sunlands)	\$27.80 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$600.	
IRRIGATION SERVICE (Golden Heights only)	\$48.10 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$600.	
IRRIGATION SERVICE (Sunlands only)	\$55.70 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$600.	
DOMESTIC, PARKS & OVALS, INDUSTRIAL SERVICES	\$205.00 per annum per connection (with no volumetric entitlement)	
WATER CONSUMPTION CHARGES		
Irrigation Consumption Up To Water Allocation		
LOW PRESSURE IRRIGATION		
Berri, Chaffey (Ral Ral), Cobdogla, Kingston, Lyrup, Moorook, Waikerie	Off Peak Consumption Price	Peak Consumption Price
	\$18.70 per megalitre	\$27.30 per megalitre
MEDIUM PRESSURE IRRIGATION		
Cadell & Mypolonga	Off Peak Consumption Price	Peak Consumption Price
	\$27.60 per megalitre	\$40.20 per megalitre
HIGH PRESSURE IRRIGATION		
Chaffey (Cooltong) & Loxton	Off Peak Consumption Price	Peak Consumption Price
	\$37.80 per megalitre	\$53.50 per megalitre
HIGH LIFT HIGH PRESSURE IRRIGATION		
Golden Heights & Sunlands	Off Peak Consumption Price	Peak Consumption Price
	\$63.20 per megalitre	\$84.20 per megalitre
Irrigation Consumption Above Water Allocation		
Equivalent to the penalty gazetted under Section 115 of the Natural Resources Management Act 2004 for water use in excess of authorised water allocation from the River Murray Prescribed Watercourse for 2015-16.		
Non Irrigation Consumption		
DOMESTIC SUPPLIES (All districts)	60 cents per kilolitre	
PARKS AND OVALS (All districts)	Off Peak Consumption Price	Peak Consumption Price
	\$0.32 per kilolitre	\$0.60 per kilolitre
INDUSTRIAL (All districts)	Consumption up to 250,000 KL	\$0.58 per kilolitre
	Consumption for next 300,000 KL	\$0.31 per kilolitre
	For any further water use	\$0.12 per kilolitre
TERMINATION FEE (All districts except Golden Heights & Sunlands)	\$278.00 plus GST \$27.80 per megalitre of Water Delivery Right surrendered.	
TERMINATION FEE (Golden Heights only)	\$455.00 plus GST \$45.50 per megalitre of Water Delivery Right surrendered.	
TERMINATION FEE (Sunlands only)	\$540.50 plus GST \$54.05 per megalitre of Water Delivery Right surrendered.	
OTHER CHARGES (effective 1 July 2015)		
Water Service Connection	25mm	\$1,480.00 per connection
	50mm	\$2,855.00 per connection
	100mm	\$7,140.00 per connection
	150mm	\$8,470.00 per connection
Water Service Relocation	100mm	\$3,570.00 per connection
	150mm	\$4,235.00 per connection

CIT schedule of charges – Applicable from 1 October 2016

CENTRAL IRRIGATION TRUST WATER PRICES EFFECTIVE 1 OCTOBER 2016		
SERVICE CHARGES		
IRRIGATION SERVICE (All districts except Golden Heights & Sunlands)	\$28.30 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$610.	
IRRIGATION SERVICE (Golden Heights only)	\$48.80 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$610.	
IRRIGATION SERVICE (Sunlands only)	\$56.60 per megalitre based on Water Delivery Rights and any use above the Water Delivery Rights. Minimum charge of \$610.	
DOMESTIC, PARKS & OVALS, INDUSTRIAL SERVICES	\$210.00 per annum per connection (with no volumetric entitlement)	
WATER CONSUMPTION CHARGES		
Irrigation Consumption Up To Water Allocation		
LOW PRESSURE IRRIGATION		
Berri, Chaffey (Ral Ral), Cobdogla, Kingston, Lyrup, Moorook, Waikerie	Off Peak Consumption Price	Peak Consumption Price
	\$20.50 per megalitre	\$28.50 per megalitre
MEDIUM PRESSURE IRRIGATION		
Cadell & Mypolonga	Off Peak Consumption Price	Peak Consumption Price
	\$30.30 per megalitre	\$42.10 per megalitre
HIGH PRESSURE IRRIGATION		
Chaffey (Cooltong) & Loxton	Off Peak Consumption Price	Peak Consumption Price
	\$41.50 per megalitre	\$56.00 per megalitre
HIGH LIFT HIGH PRESSURE IRRIGATION		
Golden Heights & Sunlands	Off Peak Consumption Price	Peak Consumption Price
	\$68.20 per megalitre	\$85.70 per megalitre
Irrigation Consumption Above Water Allocation		
Equivalent to the penalty gazetted under Section 115 of the Natural Resources Management Act 2004 for water use in excess of authorised water allocation from the River Murray Prescribed Watercourse for 2016-17.		
Non Irrigation Consumption		
DOMESTIC SUPPLIES (All districts)	63 cents per kilolitre	
PARKS AND OVALS (All districts)	Off Peak Consumption Price	Peak Consumption Price
	\$0.33 per kilolitre	\$0.63 per kilolitre
INDUSTRIAL (All districts)	Consumption up to 250,000 KL	\$0.61 per kilolitre
	Consumption - next 300,000 KL	\$0.32 per kilolitre
	For any further water use	\$0.13 per kilolitre
OTHER CHARGES		
Water Service Connection	25mm	\$1,510 per connection
	50mm	\$2,910 per connection
	100mm	\$7,300 per connection
	150mm	\$8,650 per connection
Water Service Relocation	100mm	\$3,650 per connection
	150mm	\$4,325 per connection
Water Service Re-Activation	25mm	\$68 per connection
	All Others	Quote- Following On Site Inspection
Water Service Disconnection	\$425 per connection	
Locking & Un-locking of outlets for non-payment and/or un-authorized consumption	\$35.00 per connection	
DRAINAGE (All districts except Sunlands)	\$84.00 per hectare for those customers without an irrigation connection.	
DRAINAGE (Sunlands)	As charged by Qualco Sunlands Groundwater Control Trust	
TERMINATION FEE (All districts except Golden Heights & Sunlands)	\$281.00 plus GST \$28.10 per megalitre of Water Delivery Right surrendered.	
TERMINATION FEE (Golden Heights only)	\$444.50 plus GST \$44.45 per megalitre of Water Delivery Right surrendered.	
TERMINATION FEE (Sunlands only)	\$551.50 plus GST \$55.15 per megalitre of Water Delivery Right surrendered.	
NATURAL RESOURCE MANAGEMENT LEVY (Class 3A)	\$6.30 per megalitre based on Irrigation Rights. This levy is collected for the South Australian Murray-Darling Basin Natural Resources Management Board - from 1 July 2016	
NATURAL RESOURCE MANAGEMENT LEVY (Sunlands only – Class 3B)	\$6.00 per megalitre based on Irrigation Rights. This levy is collected for the South Australian Murray-Darling Basin Natural Resources Management Board – from 1 July 2016	

3.3.2 Renmark Irrigation Trust (RIT), South Australian Murray

Off-river IO hypothetical bill

The analysis assumes one irrigator in RIT's network who:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML)
- has an equivalent farm size—5.38 ha, 26.94 ha or 107.76 ha, respectively for each of the volumes of irrigation right above, and
- has one irrigation connection on its farm (as such, drainage charges do not apply).

The analysis applies the conversion of irrigation right to an equivalent farm size because Renmark levies its access charge based on farm size in hectares. The conversion rule is 9.28 ML per hectare.⁶⁶

The 2016-17 hypothetical bill analysis includes the following charges listed on RIT's schedule of charges.

Fixed:

- Irrigation access charge⁶⁷ (levied per rated hectare per half year)
- NRM levy (i.e. the NRM Water levy) (levied per ML of 'entitlement' (irrigation right) held)

Variable:

- Water delivery charge⁶⁸ (levied per KL of water delivered)

The Natural Resource Management Water levy is a WPM charge. RIT irrigation customers do not pay any on-river infrastructure charges as there is no on-river IO in SA.

2016-17 Schedule of Charges

RIT provided the schedule of charges below to the ACCC as part of its response to the ACCC's request for information. The ACCC had sourced previous versions from RIT's website: <http://www.rit.org.au>. There is a schedule for July-December 2016 and one for January-June 2017, but the charges are the same in each.

66 This conversion rule is assumed after consultation between the ACCC and RIT.

67 This charge is levied per half year. For the hypothetical bill construction it is converted to a single, yearly charge.

68 This charge is levied in cents per kilolitre and is converted to dollars per ML for the hypothetical bill construction.



**RENMARK IRRIGATION TRUST
WATER PRICES SCHEDULE
July to December 2016
(Rate Notice No 33)**

RENMARK IRRIGATION DISTRICT	All consumption up to allocation	For any Water use above allocation
WATER DELIVERY CHARGE* - Standard - High Pressure	4.30 cents per kilolitre 11.00 cents per kilolitre	Financial penalties will apply to any unauthorised taking of water as per penalty rates declared under the Natural Resources Management Act 2004 for 2016-2017
IRRIGATION ACCESS CHARGE*	An access charge of \$168.00 per rated hectare per half year (with no volumetric entitlement). Charges not paid by the due date will have interest charged at 1% on the accumulated total each month. A minimum access charge of \$268.00 per annum is applicable.	
DOMESTIC SUPPLIES: IRRIGATORS & GENERAL PURPOSE CONSUMERS*	An access charge of \$128.00 per annum (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
DOMESTIC SUPPLIES: NON IRRIGATORS*	An access charge of \$256.00 per annum (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
INDUSTRIAL AND MISCELLANEOUS SUPPLIES*	Access charge (per annum) varies according to the meter size (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
NRM LEVY*	This levy is collected for the SAMDB Natural Resources Management Board and is charged to the Trust at a rate per megalitre on irrigation entitlement, all consumers then contribute on their entitlement at a rate determined by the Renmark Irrigation Trust to recover this cost.	
REHABILITATION CONTRIBUTIONS	An annual amount of \$100,628.00 is repaid on Rehabilitation Loans and is included in access charge and delivery fee for all Consumers	
FUTURE ASSET REPLACEMENT	This year the amount being put aside for future Asset Replacement is \$520,000.00 and is included in access charge and delivery fee for all consumers.	
TERMINATION	Termination Fee - \$3,360.00 per Ha + GST Meter Removal (disconnection fee) if applicable \$340.00 including GST	
OTHER CHARGES	Water Access Entitlement External Transfer Administration Fee \$324.50 including GST Water Supply Connection – Estimate provided on application, charged at cost on completion	
DRAINAGE	Drainage Access Charge \$82.50 including GST – Applies to customers whom do not pay irrigation charges	

*Charged quarterly
E&OE



**RENMARK IRRIGATION TRUST
WATER PRICES SCHEDULE
January to June 2017
(Rate Notice No 34)**

RENMARK IRRIGATION DISTRICT	All consumption up to allocation	For any Water use above allocation
WATER DELIVERY CHARGE* - Standard - High Pressure	4.30 cents per kilolitre 11.00 cents per kilolitre	Financial penalties will apply to any unauthorised taking of water as per penalty rates declared under the Natural Resources Management Act 2004 for 2016-2017
IRRIGATION ACCESS CHARGE*	An access charge of \$168.00 per rated hectare per half year (with no volumetric entitlement). Charges not paid by the due date will have interest charged at 1% on the accumulated total each month. A minimum access charge of \$268.00 per annum is applicable.	
DOMESTIC SUPPLIES: IRRIGATORS & GENERAL PURPOSE CONSUMERS*	An access charge of \$128.00 per annum (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
DOMESTIC SUPPLIES: NON IRRIGATORS*	An access charge of \$256.00 per annum (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
INDUSTRIAL AND MISCELLANEOUS SUPPLIES*	Access charge (per annum) varies according to the meter size (with no volumetric entitlement) and a consumption price of 4.30 cents per kilolitre	
NRM LEVY*	This levy is collected for the SAMDB Natural Resources Management Board and is charged to the Trust at a rate per megalitre on irrigation entitlement, all consumers then contribute on their entitlement at a rate determined by the Renmark Irrigation Trust to recover this cost.	
REHABILITATION CONTRIBUTIONS	An annual amount of \$100,628.00 is repaid on Rehabilitation Loans and is included in access charge and delivery fee for all Consumers	
FUTURE ASSET REPLACEMENT	This year the amount being put aside for future Asset Replacement is \$520,000.00 and is included in access charge and delivery fee for all consumers.	
TERMINATION	Termination Fee - \$3,360.00 per Ha + GST Meter Removal (disconnection fee) if applicable \$340.00 including GST	
OTHER CHARGES	Water Access Entitlement External Transfer Administration Fee \$324.50 including GST Water Supply Connection – Estimate provided on application, charged at cost on completion	
DRAINAGE	Drainage Access Charge \$82.50 including GST – Applies to customers whom do not pay irrigation charges	

*Charged quarterly
E&OE

3.3.3 Goulburn-Murray Water (GMW), Victoria

Off-river IO hypothetical bill

The analysis assumes nine irrigators, one in each of GMW's off-river networks. Three of these networks are pressurised and six are gravity-fed.

The three pressurised networks are:

- Nyah
- Woorinen
- Tresco

The six gravity-fed networks are:

- Central Goulburn
- Loddon Valley⁶⁹
- Murray Valley
- Rochester
- Shepparton
- Torrumbarry

The analysis assumes that each irrigator in any of the pressurised and gravity-fed networks:

- holds 50 ML, 250 ML or 1000 ML of high reliability water share, and
- holds a volume of water delivery shares (in ML/day) equal to 1/100 of the water share volume (0.5 ML/day, 2.5 ML/day or 10 ML/day).

The 2016-17 hypothetical bill analysis includes the following charges for all GMW networks:

Fixed:

- High reliability water share entitlement storage fee (levied per ML of HR water share held)
- Service (levied per account held)
- Infrastructure access (levied per delivery share held)
- Service point (irrigation) (payable by gravity-fed networks only, levied per service point)—'Local Read' fee for 50 ML hypothetical bill; 'Remote read and operate' fee for 250 ML and 1000 ML hypothetical bills
- Additional service point (payable by pressurised networks only, levied per additional service point)
- Drainage charges (see below)

Variable:

- Infrastructure use (levied per ML of water delivered)

The high reliability water share entitlement storage fee is the on-river infrastructure charge passed on to customers located off-river. GMW's off-river customers do not pay a specific WPM charge. However, two per cent of GMW's total revenue collected from off-river

⁶⁹ This was previously known as Pyramid-Boort.

infrastructure charges imposed on customers is used to recover costs associated with the Victorian Environmental Contribution (see section 2 above and chapter 3 of the main report for more information on the Environmental Contribution).

Drainage charges

The 2016-17 analysis assumes drainage charges are also levied on customers in all networks.

The analysis assumes an irrigator in a pressurised network:

- has one property, and
- drainage water use is consistent with the water access entitlement ('water share').

The 2016-17 hypothetical bill analysis includes the following drainage charges for pressurised networks:

- Nyah:
 - Subsurface drainage service fee (levied per account)
 - Subsurface drainage water use (levied per ML of water delivered)
- Woorinen
 - Subsurface drainage service fee (levied per account)
 - Subsurface drainage area fee (levied per hectare)
 - Subsurface drainage water use (levied per ML of water delivered)
- Tresco
 - Subsurface drainage fee (levied per ML of water delivered)

As noted above, the subsurface drainage area fee is only levied in the Woorinen network, and is levied per hectare. Using information provided by GMW in 2013–14, the ACCC has assumed a hectare to ML conversion ratio of 0.155 hectares to 1 ML.⁷⁰

The 2016-17 hypothetical bill analysis includes the following drainage charges for gravity-fed networks:

- surface drainage service fee (levied per account)
- surface drainage area fee (levied per hectare)
- surface drainage water use fee (levied per ML of water delivered)

Similar to pressurised networks, the ACCC calculated a hectare to ML ratio for irrigators in a gravity-fed network for the surface drainage area fee. The hectare to ML ratio assumed for each gravity-fed network for the drainage area fee is provided in the table below.

⁷⁰ GMW provided typical irrigator bills for medium and large customers. GMW also advised that the size of the medium and large customers varies across networks and the area for drainage is also different between medium and large customers within the same network. The hectare to ML conversion ratio was calculated as the average of hectare to ML ratio for medium a customer and the hectare to ML ratio for a large customer. Application of this ratio results in a different drainage area depending on the water access entitlement scenario.

Table 1: GMW Conversion ratios for surface drainage area fees in gravity-fed networks

Gravity-fed network	Hectare to ML ratio
Loddon Valley	0.5 ha to 1 ML
Rochester	0.2 ha to 1 ML
Central Goulburn	0.275 ha to 1 ML
Shepparton	0.354 ha to 1 ML
Torrumbarry	0.419 ha to 1 ML
Murray Valley	0.208 ha to 1 ML

GMW's schedule of charges includes a range of other surface and subsurface drainage fees. Based on information provided by GMW, the ACCC has determined that these fees would not be levied on the 'typical' irrigator, as they apply only in specific circumstances, and have thus been excluded from the hypothetical bill analysis.

2016-17 Schedule of Charges

The ACCC sourced the below schedule of charges from GMW's website⁷¹.

⁷¹ https://www.g-mwater.com.au/downloads/gmw/Pricing_List/GMW_2016_17_Price_List.pdf

Goulburn-Murray Water

Pricelist 2016/17



FEES AND CHARGES

Our full price list is also available at www.gmwater.com.au/pricing

GRAVITY AND PUMPED IRRIGATION

UNIT	IRRIGATION DISTRICT					
	Goulburn Murray Area					
	Shepparton	Central Goulburn, Rochester, Loddon Valley, Murray Valley, Torrumbarry	Woorinen	Nyah	Tresco	
Service	\$ / Account	110.00	110.00	110.00	110.00	110.00
Service Point - Local Read	\$ / Each	320.00	320.00			
Service Point - Remote Read	\$ / Each	475.00	475.00			
Service Point - Remote Operate	\$ / Each	575.00	575.00			
Service Point - D&S	\$ / Each	90.00	90.00			
Additional Service Point	\$ / Each			90.00	90.00	90.00
Infrastructure Access	\$ / ML/day	4,388.48	2,896.00	5,394.63	4,358.56	5,116.78
Infrastructure Use	\$ / ML	8.20	5.93	18.13	19.79	10.25
Casual Infrastructure Use	\$ / ML	74.03	49.37	99.06	80.79	85.71
Distribution Access	\$ / ML/day	4,388.48	2,896.00			
Distribution Use	\$ / ML	8.20	5.93			
Termination*	\$ / ML/day	43,884.80	28,960.00	53,946.30	43,585.60	51,167.80
Overuse	\$ / ML	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00

*Indicative: Termination Fee will be calculated using the actual fixed fees payable in the year of termination.

SURFACE DRAINAGE

UNIT	IRRIGATION DISTRICT							
	Goulburn Murray Area							
	Shepparton	Central Goulburn	Rochester-Campaspe	Loddon Valley	Murray Valley	Torrumbarry	Tyntynder	
Service	\$ / Account	110.00	110.00	110.00	110.00	110.00	110.00	110.00
Area	\$ / HA	13.07	6.83	8.86	4.19	9.70	4.19	8.62
Water Use	\$ / ML	5.44	2.93	2.93	3.02	3.24	2.61	4.18
Drainage Diversion Site	\$ / Site	208.39	208.39	208.39	52.09	208.39	52.09	52.09
Drainage Diversion Agreement	\$ / ML	2.08	2.08	2.08		2.08		

COMMUNITY SURFACE DRAINAGE

Community Surface Drainage	\$ / km	667.78	667.78	667.78	667.78	667.78	667.78
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SUBSURFACE DRAINAGE

UNIT	IRRIGATION DISTRICT					
	Goulburn Murray Area					
	Central Goulburn	Rochester	Murray Valley	Woorinen	Nyah	Tresco
Subsurface Drainage	\$ / ML					1.52
Local Benefit Area	\$ / HA	2.86	17.45	4.86		
Local Benefit Water Use	\$ / ML	1.52	9.59	3.62		
Municipal Local Benefit Area	\$ / HA	15.26	68.43	20.50		
Service	\$ / Account				110.00	110.00
Area	\$ / HA				1.74	
Water Use	\$ / ML				0.71	3.81

DIVERSION

UNIT	IRRIGATION DISTRICT					
	Regulated Waterways	Unregulated Waterways	Shepparton Irrigation Region Groundwater	Katunga, Kinglake, Loddon Highlands, Lower Campaspe, Lower Ovens, Mid Goulburn, Mid Loddon, Upper Ovens & Other Intensive Groundwater	Other Groundwater	
Service	\$ / Account	110.00	110.00	110.00	110.00	110.00
Service Point Fee - Small	\$ / Each	100.00	100.00		100.00	100.00
Service Point Fee - Large	\$ / Each	320.00	320.00		320.00	320.00
Access Fee (Regulated Waterways)	\$ / ML/day	138.37				
Access Fee (ML)	\$ / ML		5.83		1.55	
Access Fee (Service Point)	\$ / Each	95.00	85.00	90.00	90.00	90.00
Resource Management Fee	\$ / ML		3.12	1.97	4.59	4.59
Overuse Fee	\$ / ML	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00

BULK WATER

	UNIT	BASIN						
		Broken	Goulburn	Campaspe	Loddon	Bullarook	Murray	Ovens
Very High Reliability Entitlement	\$ / ML		8.69					
High Reliability Entitlement	\$ / ML	42.82	8.25	25.18	42.74	367.32	10.22	53.99
Low Reliability Entitlement	\$ / ML		4.23	15.54		222.58	4.64	
Above Entitlement Storage Fee	\$ / ML		4.23	15.54			4.64	
WR Equivalent Entitlement	\$ / ML		10.54				11.99	
Coliban Capacity Share Source	\$ / ML			31.60				

REGIONAL URBAN STORAGE ANCILLARY FEE

Regional Urban Storage Ancillary Fee	\$ / ML	10.00	10.00	10.00	10.00	10.00	10.00	10.00
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ENTITLEMENT STORAGE

	UNIT	BASIN						
		Broken	Goulburn	Campaspe	Loddon	Bullarook	Murray	Ovens
WATER USER								
High Reliability Water Share Entitlement Storage	\$ / ML	10.70	10.70	10.70	10.70	10.70	13.21	13.21
Low Reliability Water Share Entitlement Storage	\$ / ML	5.24	5.24	5.24	5.24	5.24	5.02	5.02
NON WATER USER								
Service	\$ / Account	110.00	110.00	110.00	110.00	110.00	110.00	110.00
High Reliability Water Share Entitlement Storage	\$ / ML	42.82	8.25	25.18	42.74	367.32	10.22	53.99
Low Reliability Water Share Entitlement Storage	\$ / ML		4.23	15.54		222.58	4.64	
ABOVE ENTITLEMENT STORAGE								
Above Entitlement Storage	\$ / ML		4.23	15.54			4.64	

DOMESTIC AND STOCK FLOOD PROTECTION

	UNIT	WATER DISTRICTS AND WATERWAYS					
		Normanville	Tungamah	East Loddon (South)	East Loddon (North)	West Loddon	Loch Garry
Service	\$ / Account	110.00	110.00	110.00	110.00	110.00	110.00
Water Allowance Storage	\$ / ML	8.26	8.26	8.26	8.26	8.26	
Infrastructure Access	\$ / kL/day	168.56	152.18	108.81			
Infrastructure Access	\$ / HA				2.85	3.11	
Infrastructure Use	\$ / ML	114.14	43.21	63.15			
Additional Service Point	\$ / Each	90.00	90.00	90.00			
Distribution Access	\$ / ML/day				2,896.00		
Distribution Use	\$ / ML				5.93		
Overuse	\$ / ML	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	
Flood Protection	\$ / HA						1.39

3.3.4 Lower Murray Water (LMW), Victoria

Off-river IO hypothetical bill

The analysis assumes one irrigator in the Robinvale pressurised network, and one in each of the following three gravity-fed networks of LMW:

- Merbein
- Red Cliffs
- First Mildura Irrigation District ('Mildura').

The analysis assumes that each of these four irrigators:

- holds high reliability water shares in the Murray Basin of 50 ML, 250 ML or 1000 ML
- holds an equivalent number of delivery shares—respectively 6, 30 or 120 delivery shares (based on 0.12 times the amount of water share)
- has one 'assessment' with LMW (meaning that the service charge is incurred once), and
- is provided with a full drainage service.

The 2016-17 hypothetical bill analysis for off-river customers in each network includes the following charges:

Fixed:

- service charge (levied per 'assessment')
- delivery share fee (levied per 'delivery share' (water delivery right) held)
- property drainage fee⁷² (levied per 'delivery share' (water delivery right) held)
- entitlement storage fee – Murray Basin – high reliability (levied per ML of water share held – this is an on-river infrastructure charge imposed by GMW on LMW and passed through to its customers).
- DELWP water share fee (levied per water share held in the Victorian Water Register)

Variable:

- Metered water usage fee (levied per ML of water delivered).

2016-17 Schedule of Charges

The ACCC sourced the below schedule of charges from LMW's website:

<http://www.lmw.vic.gov.au/LowerMurrayWaterSite/media/FactSheetsBrochures/Tariffs/2015-2016/Rural-Tariffs-2015-2016.pdf>.

72 For Robinvale, Red Cliffs and Merbein this is Property drainage fee Division 1.



**LOWER MURRAY URBAN & RURAL WATER CORPORATION
NOTICE OF RESOLUTION OF TARIFFS
(PURSUANT TO SECTIONS 33AJ, 260, 264 & 287A OF THE WATER ACT 1989)**

New Tariffs and Charges from 1 July 2016 to 30 June 2017

Lower Murray Urban & Rural Water Corporation has duly resolved to make, levy and adopt the following Tariffs and Charges to apply from 1st July 2016 to 30th June 2017.

RURAL TARIFFS and CHARGES

Merbein Irrigation District

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Irrigation, Drainage and Metered Domestic and Stock			
Service Charge	100.00	Per Assessment	Quarterly
Delivery Share Fee	373.64	Per Delivery Share	Quarterly
Metered Water Usage Fee*	43.90	Per ML Usage	Quarterly
Casual User Fee	373.64	Per Deemed Delivery Share	Annually
Excess Water Usage Charge	1,000.00	For every ML of overuse shown in the ABA balance	30 days from notice
Property Drainage Fee Division 1	92.12	Per Delivery Share	Quarterly
Property Drainage Fee Division 2	69.08	Per Delivery Share	Quarterly
Property Drainage Fee Division 3	46.04	Per Delivery Share	Quarterly
Property Drainage Fee Division 4	23.00	Per Delivery Share	Quarterly
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML Water Share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray	4.64	Per ML of water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn	4.23	Per ML of water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in the Vic Water Register	Annually
Unmetered Domestic & Stock Charge	553.42	Per Customer (includes Service Charge)	Quarterly

Domestic and Stock customers do not incur drainage fees. *Domestic and Stock metered water usage from the last meter reading in June 2016 to December 2016 will be billed in the third quarter account.

Red Cliffs Irrigation District

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Irrigation, Drainage and Metered Domestic and Stock			
Service Charge	100.00	Per Assessment	Quarterly
Delivery Share Fee	436.76	Per Delivery Share	Quarterly
Metered Water Usage Fee*	42.74	Per ML Usage	Quarterly
Casual User Fee	436.76	Per Deemed Delivery Share	Annually
Excess Water Usage Charge	1,000.00	For every ML of overuse shown in the ABA balance	30 days from notice
Property Drainage Fee Division 1	92.52	Per Delivery Share	Quarterly
Property Drainage Fee Division 2	69.36	Per Delivery Share	Quarterly
Property Drainage Fee Division 3	46.24	Per Delivery Share	Quarterly
Property Drainage Fee Division 4	23.12	Per Delivery Share	Quarterly
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML Water Share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray	4.64	Per ML of water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn	4.23	Per ML of water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in the Vic Water Register	Annually
Unmetered Domestic & Stock Charge	553.42	Per Customer (includes Service Charge)	Quarterly

Domestic and Stock customers do not incur drainage fees. *Domestic and Stock metered water usage from the last meter reading in June 2016 to December 2016 will be billed in the third quarter account.

Robinvale Irrigation District

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Irrigation, Drainage and Metered Domestic and Stock			
Service Charge	100.00	Per Assessment	Quarterly
Delivery Share Fee	925.80	Per Delivery Share	Quarterly
Metered Water Usage Fee*	77.83	Per ML Usage	Quarterly
Casual User Fee	925.80	Per Deemed Delivery Share	Annually
Excess Water Usage Charge	1,000.00	For every ML of overuse shown in the ABA balance	30 days from notice
Property Drainage Fee Division 1	88.28	Per Delivery Share	Quarterly
Property Drainage Fee Division 2	66.20	Per Delivery Share	Quarterly
Property Drainage Fee Division 3	44.12	Per Delivery Share	Quarterly
Property Drainage Fee Division 4	22.04	Per Delivery Share	Quarterly
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML Water Share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray	4.64	Per ML of water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn	4.23	Per ML of water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in Vic Water Register	Annually
Unmetered Domestic & Stock Charge	553.42	Per Customer (includes Service Charge)	Quarterly

Domestic and Stock customers do not incur drainage fees. *Domestic and Stock metered water usage from the last meter reading in June 2016 to December 2016 will be billed in the third quarter account.

First Mildura Irrigation District

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Irrigation, Drainage and Metered Domestic and Stock			
Service Charge	100.00	Per Assessment	Quarterly
Delivery Share Fee Mildura South HP	654.16	Per Delivery Share	Quarterly
Delivery Share Fee Other Areas	571.76	Per Delivery Share	Quarterly
Metered Water Usage Fee Mildura South HP*	93.41	Per ML usage	Quarterly
Metered Water Usage Fee Other Areas*	49.94	Per ML usage	Quarterly
Casual User Fee Mildura South HP	654.16	Per Deemed Delivery Share	Annually
Casual User Fee Other Areas	571.76	Per Deemed Delivery Share	Annually
Excess Water Usage Charge	1,000.00	For every ML of overuse shown in the ABA balance	30 days from notice
Property Drainage Fee	57.96	Per Delivery share	Quarterly
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML Water Share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray	4.64	Per ML water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn	4.23	Per ML water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in the Vic Water Register	Annually
Unmetered Domestic & Stock Charge	553.42	Per Customer (includes Service Charge)	Quarterly

Domestic and Stock customers do not incur drainage fees. *Domestic and Stock metered water usage from the last meter reading in June 2016 to December 2016 will be billed in the third quarter account.

Termination Fees – Irrigation Districts (Merbein, Red Cliffs, Robinvale, First Mildura)

Irrigation and Drainage Termination fees for the irrigation districts of Merbein, Red Cliffs, Robinvale and First Mildura are set at ten (10) times the delivery share for the district.

Water Works District – Yelta

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Service Charge	100.00	Per Assessment	Annually
Connection Charge (Pipeline)	295.82	Per Connection	Annually
Metered Water Usage Fee (Pipeline)	402.90	Per ML Usage	Annually

Millewa District - Rural			
Tariffs/Charges	Rate \$	Method of Calculation	Billed
Service Charge	100.00	Per Assessment	Annually
Occupied House	553.48	Per Connection	Annually
Scrubland	0.57	Per Hectare	Annually
Stocked	2.30	Per Hectare	Annually
Metered Water Usage Fee	0.20	Per Kilo litre	Annually

Millewa District - Urban			
Tariffs/Charges	Rate \$	Method of Calculation	Billed
Service Charge	100.00	Per Assessment	Annually
Occupied House - With Offtake	553.48	Per Connection	Annually
Occupied House - With No Offtake	276.74	Per Assessment	Annually
Metered Water Usage Fee	0.55	Per Kilo litre	Annually

Private Diverters			
Tariffs/Charges	Rate \$	Method of Calculation	Billed
Service Charge	100.00	Per Assessment	Quarterly
Operational Fee	2.19	Per ML Annual Use Limit	Quarterly
Minimum Charge (Inclusive of Service Charge)	187.60	Per Account	Quarterly
Excess Water Usage Charge	1,000.00	For every ML of overuse shown in the ABA balance	30 days from notice
Water Use Registration Domestic & Stock (inclusive of Service Charge)	138.47	Per Registration	Annually
Lake Catchment Diversion Fee	12.51	Per ML water diverted	Annually
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML Water Share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray	4.64	Per ML of water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn	4.23	Per ML of water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in the Vic Water Register	Annually
Salinity Fee	0.50	Per ML Water Share	Quarterly

Waterway Management District - Nangiloc Colignan			
Tariffs/Charges	Rate \$	Method of Calculation	Billed
Operations & Maintenance Fee	3.00	Per ML Annual Use Limit	Quarterly

Drainage Schemes - Bumbang, Tol Tol, Boundary Bend			
Tariffs/Charges	Rate \$	Method of Calculation	Billed
Operations & Maintenance Fee	3.00	Per ML Annual Use Limit	Quarterly

Salinity Disposal Fee

The Minister imposes Salinity Charges collected by LMW as follows

Charges	Rate \$	Method of Calculation	Billed
Salinity Disposal Fee (Post 14th April 2002) LIZ1*	35.93	Per ML Annual Use Limit Increased	Annually
Salinity Disposal Fee (Post 14th April 2002) LIZ2*	92.17	Per ML Annual Use Limit Increased	Annually
Salinity Disposal Fee (Post 14th April 2002) LIZ3*	184.37	Per ML Annual Use Limit Increased	Annually
Salinity Disposal Fee (Post 14th April 2002) LIZ4*	368.77	Per ML Annual Use Limit Increased	Annually
Operations & Maintenance Charge	4.52	Per ML Annual Use Limit or water share increase	Annually

* Low Impact Zone 1,2,3,4

Annual charges will be included in the first billing. Quarterly charges will be billed equally over four billing periods.

Non Water Users (NWL)

Tariffs/Charges	Rate \$	Method of Calculation	Billed
Service Charge	100.00	Per Assessment	Annually
GMW Entitlement Storage Fee Murray Basin HR	10.22	Per ML of water share	Annually
GMW Entitlement Storage Fee Murray Basin LR	4.64	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin HR	8.25	Per ML Water Share	Annually
GMW Entitlement Storage Fee Goulburn Basin LR	4.23	Per ML Water Share	Annually
GMW Above Entitlement Storage Fee Murray Basin	4.64	Per ML of water transferred into ABA from spill account	Annually
GMW Above Entitlement Storage Fee Goulburn Basin	4.23	Per ML of water transferred into ABA from spill account	Annually
DELWP Water Share Fee	13.21	Per Water Share held in the Vic Water Register	Annually

Water Charge (Planning and Management Information) Rules 2010

Lower Murray Water has information available on regulated charges in accordance with the Water Charge (Planning and Management Information) Rules 2010 on our website www.lmw.vic.gov.au

The information is also available for collection from our offices during normal business hours.

Due Dates for Payment

All Rural tariffs and charges must be paid by the date specified in the invoice provided and failing any date being specified in that invoice, 28 clear days from the date of issue of the invoice.

The date on all invoices represents the final date that the payment will be accepted interest free.

Interest shall be payable in respect to all amounts payable under a tariff or charge if the amount is not paid by the due date.

Interest at a rate of 6.1% per annum may apply to overdue accounts.

Invoices will be mailed late July, October, January and April.

Invoices can be delivered electronically via BPAY View.

Concessions

Recipients of eligible Centrelink or DVA concession cards may be entitled to a concession on:

- Irrigation Districts Domestic and Stock Supply Charges
- Urban/Rural Millewa Districts where applicable

Conditions apply. Details are available from LMW.

Place for payment

Payment may be made at:

- the local Area Office - Sunraysia - 741-759 Fourteenth Street, Mildura
- Swan Hill - 73 Beveridge Street, Swan Hill
- Kerang - 56 Wellington Street, Kerang
- any Post Office/Agency or by,
- Centrepay

3.3.5 West Corugan Private Irrigation District (West Corugan), NSW Murray

Off-river IO hypothetical bill

The analysis assumes one irrigator in the West Corugan network who:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on West Corugan's schedule of charges.

Fixed:

- network access fee (levied per ML of 'delivery entitlement' (water delivery right) held)
- fixed government fee levied per ML of 'water entitlement' (irrigation right) held).

Variable:

- water consumption fee (paid monthly, per ML of water delivered).

The fixed government fee recovers WaterNSW and DPI Water fixed charges imposed on West Corugan and passed through to its customers. Similarly, the water consumption fee recovers WaterNSW and DPI Water variable charges imposed on West Corugan, and also some of West Corugan's own costs (e.g. variable costs of delivering water through the off-river network).

These charges also include recovery of WaterNSW and DPI Water charges payable in relation to water used for transportation or conveyance losses. West Corugan does not hold a separate water access entitlement to cover conveyance losses, rather it uses some of the water allocated to its general security water access licence to cover losses. The transportation/conveyance water also incurs WaterNSW and DPI Water charges which are then shared across all customers holding irrigation rights and/or that have water delivered. The hypothetical bill analysis makes the following assumptions to separate out the WaterNSW and DPI charge components within each of the two relevant West Corugan charges.

- Annual fixed government fee: West Corugan's listed annual fixed government fee (\$5.50/ML) exceeds the sum of the WaterNSW fixed fee (\$2.71/ML) and DPI fixed fee (\$1.46/ML) for the Murray valley. The remainder (\$1.33/ML), which accounts for the fixed costs of West Corugan purchased conveyance water applicable to WaterNSW and DPI Water, is separated into WaterNSW (\$0.86/ML) and DPI (\$0.41/ML) components using a ratio of the actual WaterNSW⁷³ and DPI Water⁷⁴ fixed charges.
- Water consumption fee: the components of West Corugan's listed water consumption fee are separated using the following formulas. This calculation accounts for the WaterNSW and DPI Water variable charges levied on water used for conveyance.

DPI Water component = DPI Water usage charge + DPI Water usage charge x (volume of conveyance water)/(volume of total water delivered)

WaterNSW component = WaterNSW usage charge + WaterNSW usage charge x (volume of conveyance water)/(volume of total water delivered)

73 WaterNSW ratio = (WaterNSW fixed charge) / (WaterNSW fixed charge + DPI fixed charge).

74 DPI Water ratio = (DPI fixed charge) / (WaterNSW fixed charge + DPI fixed charge).

West Corugan component = water consumption fee – DPI Water component – WaterNSW component

Hypothetical termination fee

The hypothetical termination fee is calculated assuming 250 ML of water delivery right is held, with either 50 or 100 per cent of this volume terminated.

The 2016-17 hypothetical termination fee is calculated using the Delivery Entitlement Termination Fee listed on West Corugan's schedule of charges less GST (equal to \$187/ML Delivery Entitlement Termination Fee – \$17.00/ML GST = \$170/ML). The ACCC has excluded GST from the West Corugan Termination Fee, consistent with its approach for all other off-river IOs.

2016-17 Schedule of charges

The ACCC had sourced previous versions of the 2016-17 schedule of charges from West Corugan's website: <http://www.corugan.com.au/fees-and-charges>. A copy of the 2016-17 schedule follows this page.



Schedule of Fees and Charges 2016 - 2017

Fixed Fees

	GST Free
Annual	
Network Access Fee charged in advance July and January	\$17.00 per DE
Fixed Govt Fee charged in advance July and January	\$5.50 per ML of WE
Stock and Domestic charged in May	
Delivery Entitlement (DE) Holder Tier 1	\$75.00 per supply
Intervening Member with no DE Tier 2 (pensioners 50% discount)	\$600.00 per supply
Unlicensed Area with no DE (subject to Board Approval and specific conditions) Tier 3	\$752.00 per supply
Murray Local Land Service	\$320.00 p.a. per dam fill
Village Supplies to Daysdale	\$125.00 per supply point within each village

Variable Fees

	GST Free
Water Consumption charged monthly	\$22.00 per ML
Ancillary Flow Fee for consumption in excess of 100% of DE on imported water only. Charged in June.	\$5.00 per ML

Administration

	Including GST
Internal Allocation Transfer Fee *	\$18.70
External Allocation Transfer Fee * (plus State Govt Fees).	\$66.00 (in) \$66.00 (out) + \$11.00 per ML
Rate Certificate pursuant to S.173 Water Mgmt Act 2000 No. 92	\$49.50
Delivery Entitlement Termination Fee	\$187.00 per ML of DE
Entitlement Register Amendment Fee +^	\$44.00
Mortgage Registration/Discharge, Transfer of Ownership	
Group Administration Fee – charged at the beginning of each season	\$18.70

	GST Free
Interest levied pursuant to S.356 (Water Mgmt Act 2000 No. 92), from two months after the Tax Invoice date, on all unpaid accounts.	% variable
Internal Entitlement Transfer*	\$350.00 DE or WE
External Entitlement Transfer +	\$400.00 WE
Transformation Fee	\$400.00

Other Fees

	GST Free
Standard Wheel and Wheel Box – supplied and installed	\$3000.00 approx
Standard Check (4*) – supplied and installed	\$7500.00 approx
Disconnection Fee for structures decommissioned due to termination. Nominal fee per structure, multiple structures will be priced on application	\$1500.00 approx

	Including GST
Excavator Hire	\$143.00 per hour
Water Tanker (27,000 litres) delivery + \$2.20/km outside WCPID scheme	\$440.00

*Charged to purchaser unless prior arrangement has been made which has been confirmed by both the seller and the purchaser.

+Charged to the external purchaser of DE and/or WE.

^Charged to the internal purchaser and internal seller of DE and/or WE.

All network access and government fees are payable regardless of seasonal allocation levels.

3.3.6 Moira Private Irrigation District (Moira), NSW Murray

Off-river IO hypothetical bill

The analysis assumes one irrigator in Moira's network who:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on Moira's schedule of charges.

Fixed:

- administration: operating costs (levied per ML of water delivery right held)
- administration: electricity connection charge (levied per ML of water delivery right held).

Variable:

- MPID delivery fee (levied per ML of water delivered)
- government charges (levied per ML of water delivered)
- losses factor (levied per ML of water delivered).

Moira's administration operating costs charge and government usage charge recover both WaterNSW and DPI Water charges imposed on Moira and passed through to its customers. In the former case, the charge also recovers some of Moira's own off-river costs. The hypothetical bill analysis makes the following assumptions to separate the WaterNSW and DPI Water charge components within each of the two relevant Moira charges.

- Administration operating costs – assume the actual WaterNSW (\$2.71/ML) and DPI Water (\$1.46/ML) fixed charges are fully passed through to Moira customers as part of the administration operating costs. Then, the difference between the sum of the actual WaterNSW and DPI Water fixed charges and the administration operating costs charge is assumed to be Moira's fixed off-river infrastructure charge (\$10.83/ML).
- Government variable charges – the government charge listed on Moira's schedule (\$7.52/ML) exceeds the sum of the actual WaterNSW charge (\$6.48/ML) and DPI Water charge (\$0.97/ML). For the hypothetical bills, the government charge listed by Moira has been separated into WaterNSW and DPI Water components using the ratio of the actual fixed WaterNSW charge relative to the actual DPI Water fixed charge.

2016-17 Schedule of charges

Moira provided the schedule of charges below to the ACCC as part of its response to the ACCC's request for information.



Moira

Board of
Management

Moira Private Irrigation District

The Secretary, P.O. Box 41, Mathoura NSW 2710.
Ph: (03) 5483 8243 Fax: (03) 5483 8266 Email: moirapid@bigpond.com

Schedule of charges - 2016/2017 Irrigation Season

- These charges are based on the budget figures for the 2016/2017 season

FIXED CHARGES:

Administration: Operating costs	\$15.00 meg
Electricity connection charge	<u>\$ 50 meg</u>
	\$15.50 meg
Delivery Rights for Introduced Water	
Permanent Water (In season introduced ONLY)	\$118.00 meg *
Stock and Domestic access	\$300.00 pa
Works Charges:	
Small measuring device (Incl. Installation)	\$2,500.00
Large measuring device (Incl. Installation)	\$4,000.00

VARIABLE CHARGES:

MPID delivery fee	\$21.00 meg
Government charges	\$ 7.52 meg
Losses Factor	<u>\$ 1.63 meg</u>
	\$30.15 meg

EXTERNAL TRANSFER SEASONAL ALLOCATION:

MPID Administration	\$ 90.00
Processing	\$ 8.00 meg Plus Govt Charges

Transformation Charges:

Administration	\$300.00
Disconnection charge.	\$250.00

Termination Fee: \$11.80 per meg x 10 years equals \$118.00 per meg

- Government Access Charge not included in Termination Fee calculations.

3.3.7 Murray Irrigation Limited (MIL), NSW Murray

Off-river IO hypothetical bill

The analysis assumes one irrigator in MIL's B1 Class C network⁷⁵ who:

- holds a specific volume of general security irrigation right (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of delivery entitlement (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on MIL's schedule of charges.

Fixed:

- account administration fee – maximum (levied per account)
- water entitlement fee Class C general security (levied per ML of 'water entitlement' (irrigation right) held)
- landholding access fee (levied per landholding)
- large irrigation outlet fee (levied per large irrigation outlet)
- delivery entitlement fee (levied per ML of 'delivery entitlement' (water delivery right) held)
- drainage fixed fee (levied per ML of 'delivery entitlement' (water delivery right) held)

Variable:

- Standard water usage fee - Government charges recovery - Tier 1 variable fee (levied per ML of water delivered in tier)
- Standard water usage fee - Government charges recovery - Tier 2 variable fee (as above)
- Standard water usage fee - Government charges recovery - Tier 3 variable fee (as above)
- Standard water usage fee - MIL Tier 1 variable fee (as above)
- Standard water usage fee - MIL Tier 2 variable fee (as above)
- Standard water usage fee - MIL Tier 3 variable fee (as above)
- drainage variable fee (levied per ML of water delivered).

The water entitlement fee Class C general security and the Government charges recovery Tier 1, 2 and 3 variable fees include WaterNSW and DPI Water fixed and variable charges.

The analysis makes the following assumptions to account for the way in which some charges are levied:

- Each irrigator operates a single property, incurring the landholding access fee once
- Each irrigator has one account, incurring the account administration fee once

⁷⁵ B1 is Berruquin irrigation district farms with access to surface drainage with capital payment still outstanding. Water entitlement fee Class C is for General Security.

- Irrigators with 50 ML and 250 ML of water delivery right have one large irrigation outlet, incurring the large irrigation outlet fee once
- Irrigators with 1000 ML of water delivery right have two large irrigation outlets, incurring the large irrigation outlet fee twice.

The water entitlement Class C charge (\$4.15/ML) is presented on the MIL schedule as a combined government charge relating to general security 'water entitlements' (irrigation rights) and equals the sum of the actual WaterNSW (\$2.71/ML) and DPI Water (\$1.46/ML) fixed general security charges. In calculating the hypothetical bill, this analysis separates this charge into these WaterNSW and DPI Water components and uses a combined value of \$4.15/ML.

Separating the WaterNSW and DPI Water variable charges from MIL variable charges is more difficult due to the tiered nature of MIL's 'government charges recovery' charge. Whereas MIL incurs DPI Water and WaterNSW variable charges at a constant rate per ML of usage, MIL recovers these costs from customers using a tiered 'government charges recovery' charge, which decreases as usage increases (i.e. a declining block tariff).

MIL also applies a declining tiered structure to its own variable charges. The tiered system has the following structure:

- Tier 1: 0–5 ML
- Tier 2: 6–100 ML
- Tier 3: >100 ML

Charges are imposed against the tiers starting at Tier 1. For example, for an irrigator with 250 ML water access entitlement who has 100 per cent water delivered, the irrigator would pay for 5 ML at Tier 1 charges, 95 ML at Tier 2 charges and the remaining 150 ML at Tier 3 charges.

To separate the DPI Water and WaterNSW charge components of government charges recovery (variable) fee (Tier 1, 2 and 3), the hypothetical bill analysis calculates a ratio of the actual WaterNSW and DPI Water usage charges⁷⁶. This ratio is then applied to each tier of the government variable fee to determine the amount of the charge (for each tier) that recovers the WaterNSW usage charge and the amount recovering the DPI usage charge.⁷⁷

2016-17 Schedule of Charges

The ACCC sourced MIL's 2016-17 schedule of charges from their website:

<http://www.murrayirrigation.com.au/media/26622/Fees%20%20Prices%2016-17%20-%20WATER%20OFFER%2025%20October%202016.pdf>

⁷⁶ The WaterNSW ratio is: $6.48/7.52 = 0.862$. The DPI Water ratio is $1.04/7.52 = 0.138$.

⁷⁷ MIL agreed that this was the most appropriate approach to separate the WaterNSW and DPI Water charge components for monitoring purposes.



Murray Irrigation

2016/17 FEES AND PRICES SCHEDULE

Annexure A to the Fees and Prices Policy

Effective from Friday 1 July 2016 and to comply with the publishing requirements of the Water Charge (Infrastructure) Rules 2010 (Cth). The company generally issues accounts quarterly, and generally offers a 5 percent discount for payment received by the due date stated on each account on certain line items.

FIXED FEES

Type	Notes	Amount per annum (excl. GST)
Irrigators		
Landholding access fee		\$1,190 per landholding
Extra-large irrigation outlet	1	\$ 975 per outlet
Large irrigation outlet	2	\$ 732 per outlet
Small irrigation outlet	3	\$ 550 per outlet
Unmetered domestic pipe		\$ 365 per outlet
Domestic customers with entitlements		
Landholding access fee	4	\$ 595 per landholding
Large irrigation outlet	5	\$ 376 per outlet
Metered pipe outlet		\$ 300 per pipe outlet
Unmetered pipe outlet		\$ 192 per pipe outlet
Entitlement and administration fees apply to all customers		
Delivery Entitlement Fee	6	\$ 6.57 per delivery entitlement
Asset Maintenance Renewal Reserve Fee (AMRR)	7	\$ 4.00 per delivery entitlement
Total Delivery Entitlement Fee		\$ 10.57 per delivery entitlement
Water Entitlement Fee – Conveyance	8	\$ 1.37 per water entitlement
Water entitlement fee Class A (town supply)-WNSW	9	\$ 1.78 per water entitlement
Water entitlement fee Class A (town supply)-MDBA		\$ 3.22 per water entitlement
Water entitlement fee Class A (town supply)-DPI		\$ 1.44 per water entitlement
		\$ 6.44 per water entitlement
Water entitlement fee Class B (high security)-WNSW		\$ 1.78 per water entitlement
Water entitlement fee Class B (high security)-MDBA		\$ 3.22 per water entitlement
Water entitlement fee Class B (high security)-DPI		\$ 1.44 per water entitlement
		\$ 6.44 per water entitlement
Water entitlement fee Class C (gen security)-WNSW		\$ 0.97 per water entitlement
Water entitlement fee Class C (gen security)-MDBA		\$ 1.74 per water entitlement
Water entitlement fee Class C (gen security)-DPI		\$ 1.44 per water entitlement
		\$ 4.15 per water entitlement
Account administration fee (maximum)	10	\$ 210.00 (incl. GST) per account
Account administration fee (minimum)	11	\$ 52.25 (incl. GST) per account
Domestic Supply Agreement	12	
Landholding access fee		\$ 300 per landholding

Notes

1. Extra- large irrigation outlet – high flow outlets >15ML/day
2. Large irrigation outlet - dethridge outlet (all forms except half-wheel), metered pipe >300mm or other high flow outlet.
3. Small irrigation outlet (e.g. dethridge half-wheel) or metered pipe outlet (300mm or less).
4. Landholdings classified as domestic based on assumed water use per landholding of 2ML or less. For Community Associations water use per household of 2ML or less.

5. The large irrigation outlet fee (domestic) applies to Community Associations with a dethridge outlet or other high flow outlet.
6. The delivery entitlement fee payable applies to delivery entitlements on both irrigation and domestic landholdings and is made up of a fee for holding Delivery entitlements and a fee for infrastructure renewal costs in the future.(AMRR)
7. The AMRR fee is included in the delivery entitlement fee. This fee is based on delivery entitlements held by customers and is collected for the purposes of civil and mechanical maintenance of the Company's water delivery infrastructure.
8. The Water Entitlement Fee – Conveyance is a Government charge associated with Murray Irrigation's Conveyance Water Access Licence. It stands alone from the Water Entitlement Fees and allows Murray Irrigation to remove tiered usage from Government Water Usage Fees.
9. Water entitlement fees are the Government bulk water charges and include the Water NSW charges which include Murray Darling Basin Authority costs and NSW Office of Water charges. These are broken out for transparency
10. This fee applies to all customer accounts, including treating consolidated accounts as a single account for manual processing.
11. Customers who elect to receive *Talking Water*, invoices and make payments electronically and maintain their account up-to-date are levied this lower fee once per annum. Otherwise this fee is levied each quarter.
12. Customers who have entered into a 'Domestic Water Supply' agreement with the company and do not hold any water entitlements or delivery entitlements.

VARIABLE FEES

<i>Standard water usage fees per mega litre (excl. GST)</i>					
Tier	Notes	ML usage	Government water usage charges recovery	Murray Irrigation delivery charges	Total
One	1,2,3	0-5ML	\$ 7.51*	\$ 44.41	\$ 51.92
Two	1,2,3	6-100ML	\$ 7.51*	\$ 12.00	\$ 19.51
Three	1,2,3	Above 100ML	\$ 7.51*	\$ 5.99	\$ 13.50
<i>Casual water usage fees per mega litre (excl. GST)</i>					
One	1,2,3,4,5,6	Above 0ML	\$7.51*	\$ 45.00	\$52.51

*Govt water usage charge includes: WaterNSW \$2.31, MDBA \$4.17, DPI \$1.03

Explanatory notes

1. The first 5ML delivered is charged at the tier one rate, delivery of water from 6ML to 100ML is charged at the tier two rate and delivery of water above 100ML is charged at the tier three rate. The tiers allow the sharing of season start up and conveyance costs.
2. Government water usage fees include Water NSW including Murray Darling Basin Authority costs and NSW Office of Water charges and represent a direct pass through of the variable cost of water from the Government.
3. The applicable fee applies to water use on the landholding from 1 July 2016.
4. Casual water usage fees apply where water use greater than 120 percent of delivery entitlements. These charges are not tiered.
5. The Government component of the variable fees is the same for the standard and casual usage fees.
6. Customers have the ability to avoid the casual water usage fee through annual transfer of delivery entitlements or (where applicable) consolidation of accounts.

DRAINAGE FEES

District Category & District	Fixed fees (excl. GST) Per delivery entitlement	Variable fees (excl. GST) Per megalitre
B1 & B2 (Berriquin)	\$0.00	\$0.49
W1 (Wakool)	\$0.41	\$1.43
W2 (Wakool)	\$0.41	\$1.43
W3 (Wakool)	\$0.21	\$0.91
W4 (Wakool)	\$0.41	\$1.05
W5 (Wakool)	\$0.21	\$0.53
W6 (Wakool)	\$0.00	\$0.24

Surface and sub-surface drainage categories

Area	Description
B1/B2	Berriquin irrigation district farms with access to surface drainage.
W1	Wakool irrigation district farms with access to surface drainage and serviced by the WTSSDS.
W2	Wakool farms with access to surface drainage previously joint ventured and serviced by the WTSSDS or farms with access to new surface drainage on the perimeter of the WTSSDS.
W3	Wakool farm with access to surface drainage previously joint ventured on the perimeter of the WTSSDS or farms with access to new surface drainage and not serviced by the WTSSDS.
W4	Wakool farms with access to surface drainage previously joint ventured with government and not serviced by the WTSSDS or farms without access to surface drainage and services by the WTSSDS.
W5	Wakool farms without access to surface drainage and on the perimeter of the WTSSDS.
W6	Wakool farms without access to surface drainage and not serviced by the WTSSDS.

The landholding category is available on your account or by contacting reception on T. 1300 138 265.

OTHER FEES (Irrigation and Domestic Customers)

Outlet disconnection, removal and connection fees

Type of outlet	Per outlet (incl. GST)
<i>Disconnection and removal fees</i>	
Pipe outlet (metered and unmetered)	\$ 262.00*
Dethridge outlet	\$ 384.00*
Compliant outlet (to ATS 4747)	\$1,246.00*
<i>Connection or Reconnection Fees</i>	
Outlet connection or reconnection (compliant meter)#	From \$15,000 per outlet, depending on meter type.

* Disconnection and removal fee may be waived at the company's discretion

Additional five percent of metered use allocated to existing, new or replacement compliant meters.

Rice Growers Charge

	Per landholding (incl. GST)
Fee per landholding for rice crops	\$220.00

Accredited Escapes

	Per ML (excl. GST)
Fixed annual fee to guarantee up to 400GL of capacity (total \$4.356m)	\$10.57
Fee for delivery of ordered escape flows by WaterNSW	\$7.94

TERMINATION FEES

The termination fee is calculated based on the *Water Charge (Termination Fees) Rules 2009* (Cth).

Termination fee	Nominally 10 times the actual fixed fee paid on the delivery entitlements terminated, plus GST. Landholding access and outlet fees are only used to calculate termination fees when disconnecting from the system. Indicative \$105.70 per delivery entitlement. Actual termination fee calculated at the time of application to terminate.
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Discretionary fees

<u>Snowy Advance</u>	For the advance of water against a landholder's entitlements to cover the admin costs and risk borne by Murray Irrigation in providing the scheme.
Option fee	\$8 per ML assigned under the application process
Exercise fee	\$39 per ML option exercised
<u>Water offer</u>	For the offer announced 21 October 2016: \$49 per ML assigned under the application process.

OTHER FEES (Irrigation and Domestic Customers)

Outlet disconnection, removal and connection fees

Type of outlet	Per outlet (incl. GST)
<i>Disconnection and removal fees</i>	
Pipe outlet (metered and unmetered)	\$ 243.00*
Dethridge outlet	\$ 356.00*
Compliant outlet (to ATS 4747)	\$1,154.00*
<i>Connection or Reconnection Fees</i>	
Outlet connection or reconnection (compliant meter)#	From \$15,000 per outlet, depending on meter type.

* Disconnection and removal fee may be waived at the company's discretion

Additional five percent of metered use allocated to existing, new or replacement compliant meters.

Accredited escape flows

	Per megalitre (excl. GST)
Fee for delivery of ordered escape flows by State Water ¹	\$1.75

¹ A loss factor applies to accredited escape flows ordered by NSW State Water Corporation.

TERMINATION FEES

The termination fee is calculated based on the *Water Charge (Termination Fees) Rules 2009* (Cth).

Termination fee	Nominally 10 times the actual fixed fee paid on the delivery entitlements terminated, plus GST. Landholding access and outlet fees are only used to calculate termination fees when disconnecting from the system. Indicative \$96.20 plus GST per delivery entitlement. Actual termination fee calculated at the time of application to terminate.
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SNOWY ADVANCE 2016

The following fees only apply to those participating in the Murray Irrigation Snowy Advance product in the 2016/17 irrigation season.

	Per megalitre (excl. GST)
Option fee	\$8.00
Exercise fee	\$39.00

3.3.8 Eagle Creek Pumping Syndicate (Eagle Creek), NSW Murray

Off-river IO hypothetical bill

Eagle Creek is a joint water supply scheme, meaning that customers jointly hold a single water access entitlement (rather than the operator holding the entitlement and customers holding irrigation rights).

The analysis assumes one irrigator in Eagle Creek's network who:

- holds a specific share of general security water access entitlement (WAE) (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on Eagle Creek's schedule of charges.

Fixed:

- EC fixed charge, General Security (levied per ML of share of WAE or water delivery right held)⁷⁸
- Government fixed charge, General Security (levied per ML of share of WAE or water delivery right held).

Variable:

- EC usage charge (levied per ML of water delivered)
- Government usage charge (levied per ML of water delivered).

Eagle Creek's schedule shows a government fixed charge and a government usage charge which recover both WaterNSW and DPI Water charges imposed on Eagle Creek. The hypothetical bill analysis makes the following assumptions to separate the WaterNSW and DPI Water charge components.

- Government fixed charge – the listed charge (\$3.52/ML) is slightly less than the total of the actual WaterNSW and DPI Water (\$4.17/ML) charges. The analysis assumes the actual DPI Water fixed charge (\$1.46/ML) is fully passed through to Eagle Creek's customers as part of the government fixed charge. The remainder is assumed to be the WaterNSW fixed charge (\$2.06/ML). This is less than the relevant charge on WaterNSW's schedule of charges for the NSW Murray valley (\$2.71/ML). The difference between these two charges (\$0.65/ML) is taken to be WaterNSW's ICD rebate for Eagle Creek.
- Government usage charge – the Eagle Creek government usage charge (\$7.52/ML) is equal to sum of the relevant regulated WaterNSW (\$6.48/ML) and DPI Water (\$1.04/ML) charges for the NSW Murray valley. Therefore this analysis divides the Eagle Creek government usage charge into these two components.

2016-17 Schedule of charges

Eagle Creek provided the schedules of charges below to the ACCC as part of its response to the ACCC's request for information. The schedule came into effect on 1 September 2016.

⁷⁸ Eagle Creek's Schedule of Charges does not clearly specify whether its fixed charges are specified in relation to ML of water delivery right held or ML of (share of) WAE held. However, since the hypothetical bill analysis assumes that the irrigator holds and equivalent amount of water delivery right and (share of) WAE, this distinction is not material to the analysis.

The schedule marked 2015–16 applied (relevantly) from 1 July 2016 until 31 August 2016 (i.e. two months), with the schedule marked 2016-17 applying for the remainder of the financial year (i.e. ten months). The hypothetical bills are based on a weighted average of charges, with a weighting of 2/12 for the 2015–16 schedule and 10/12 for the 2016-17 schedule.

Fees and charges for 2016/17 season	
Usage Charges	\$
Government usage charge -----	7.52/ML
Eagle Creek usage charge -----	3.75/ML
Total usage charge -----	11.27/ML
Fixed Charges	
Government fixed charge, High Security -----	5.81/ML
Eagle Creek fixed charge, High Security -----	5.14/ML
Total fixed charge High Security -----	10.95/ML
Government fixed charge, General Security -----	3.52/ML
Eagle Creek fixed charge, General Security -----	5.14/ML
Total fixed charge General Security -----	8.66/ML
Other Charges	
All members are charged at a flat rate of \$225.00/annum for the transportation, pumping costs etc. of Domestic and Stock water	
Termination Fees	
High Security water -----	\$51.40/ML
General Security water -----	\$51.40/ML
Bill Brookes Secretary/Public Officer Eagle Creek Pumping Syndicate Inc.	

3.3.9 Western Murray Irrigation (WMI), NSW Murray

Off-river IO hypothetical bill

The analysis assumes one irrigator in each of WMI's three networks:

- Buronga
- Coomealla
- Curlwaa.

It is assumed that each irrigator:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML)
- holds an equivalent amount of delivery entitlement (50 ML, 250 ML or 1000 ML, respectively) and
- does not incur meter reading or administration charges.

The 2016-17 hypothetical bill analysis includes the following charges listed on WMI's schedule of charges, which apply to all three networks at the applicable rates listed on the schedule unless otherwise specified.

Fixed:

- access fee for delivery entitlement (per ML of 'delivery entitlement' (water delivery right) held)
- asset replacement fund (per ML of 'delivery entitlement' (water delivery right) held)
- joint venture repayment (Coomealla only) (per ML of 'delivery entitlement' (water delivery right) held)
- infrastructure loan repayment (Buronga only) (per ML of 'delivery entitlement' (water delivery right) held)
- fixed government charge (for general security entitlements) (per ML of 'water entitlement' (irrigation right) held)
- membership levy (per ML of 'water entitlement' (irrigation right) held)
- land and water management plan charge (Buronga only) (per ML of 'delivery entitlement' (water delivery right) held).

Variable:

- water usage above access fee allowance (per ML of water delivered above 'access fee allowance' (see below))
- variable government charge (per ML of water delivered).

WMI does not levy its usage charge as long as water usage is below or equal to the customer's 'access fee allowance', which is set as a specified percentage of delivery entitlements. For each network in 2016–17, this allowance is:

- 60 per cent for Buronga
- 45 per cent for Coomealla
- 60 per cent for Curlwaa.

An irrigator that uses water above the allowance percentage incurs the 'water usage above access fee allowance', for each megalitre above the allowance.

The hypothetical bill analysis makes the following assumptions to separate the WaterNSW and DPI Water charge components within each of the two combined government charges listed by WMI:

- Fixed government charge – the fixed government charge (\$4.15/ML) is two cents greater than the sum of the relevant fixed regulated WaterNSW (\$2.71/ML) and DPI Water charges (\$1.46/ML) for the NSW Murray valley. This analysis uses the WaterNSW and DPI Water values for the calculation of the hypothetical bill.
- Variable government charge – the variable government charge (\$7.51/ML) is one cent greater than the relevant variable regulated WaterNSW (\$6.48/ML) and DPI Water charges (\$1.04/ML) for the NSW Murray valley. Therefore this analysis divides the WMI variable government charge into these two components.

Hypothetical termination fees

The ACCC has calculated hypothetical termination fees assuming 250 ML of delivery entitlement is held, with either 50 or 100 per cent of this volume terminated.

The 2016-17 analysis uses the (GST exclusive) termination fee listed on WMI's schedule of charges.

2016-17 Schedule of charges

The ACCC sourced WMI's 2016-17 schedule of charges from their website <http://www.westernmurray.com.au/docs/Schedule%20of%20Charges/2016-17Water&AdminCharges.pdf>

The schedules of charges are set out below.

Western Murray Irrigation 2016-17 Schedule of Charges

WESTERN MURRAY IRRIGATION LIMITED			
<small>ACN 087 197 863</small>			
2016/17 SCHEDULE OF CHARGES			
Effective 01 July 2016			
	Buronga	Coomealla	Curlwaa
Access Fee per Delivery Entitlement	\$109.90	\$61.40	\$49.70
Specified Percentage of Delivery Entitlements which can be used without incurring the Water Usage Above Access Fee Allowance Fee	60%	45%	60%
Water Usage Above Access Fee Allowance Fee (per ML usage up to 100% of Delivery Entitlements)	\$109.90	\$61.40	\$49.70
Casual Users Access Fee (per ML usage exceeding 100% of Delivery Entitlements)	\$182.00	\$100.00	\$71.00
Asset Replacement Fund Fee (per Delivery Entitlement)	\$18.56	\$13.28	\$8.76
Joint Venture Repayment Fee (per Delivery Entitlement)	-	\$8.20	-
Infrastructure Loan Repayment Fee (per Delivery Entitlement)	\$15.00	-	-
Fixed Government Charge (per High Security Water Entitlement and Stock and Garden Water Entitlement)	\$5.68	\$5.68	\$5.68
Fixed Government Charge (per General Security Water Entitlement)	\$4.15	\$4.15	\$4.15
Variable Government Charge (per ML usage)	\$7.51	\$7.51	\$7.51
Membership Levies Fee (per Water Entitlement) (excluding GST)	\$0.25	\$0.25	\$0.25
Land and Water Management Plan Fee (per Delivery Entitlement)	\$1.48	-	-
Additional Water Fee – fee for service – (per ML)	\$1,200.00	\$1,200.00	\$1,200.00
Termination Fee (per Delivery Entitlement) (excluding GST)	\$999.44	\$491.10	\$385.80

The Access Fee is divided evenly across the first three invoices of the Water Year (1 July to 30 June). The Water Usage Above Access Fee Allowance Fee is levied in the final invoice of the Water Year. The Casual Users Access Fee ensures that non-Delivery Entitlement holders also contribute to funding the cost of operating and maintaining WMI's infrastructure.

The Asset Replacement Fund Contribution will be divided equally over the four invoices issued for the Water Year, as will Buronga Delivery Entitlement holders' Infrastructure Loan Repayment Fee and Coomealla Delivery Entitlement holders' Joint Venture Repayment Fee.

The Variable Government Charge and the Fixed Government Charge pass through charges levied by the NSW Government. The Fixed Government Charge is divided over the four invoices issued for the Water Year.

The Membership Levies Fee covers WMI's membership fees payable to NSW Irrigators' Council and National Irrigators' Council.

The Land and Water Management Plan Fee funds implementation of the Land and Water Management Plan, including the Buronga Basin One Drainage Coordination Project. It will be divided equally over the four invoices issued for the Water Year.

Additional Water Fee – fee for service
Water Allocation is allocated to you based on your Water Entitlements (usually in proportion to the volume allocated by the NSW Government to WMI's water access licences) and you can buy more Water Allocation in the market if you wish. If, however, you order or take Additional Water in excess of the volume in your Water Allocation Account, you must pay this fee-for-service for each ML of Additional Water you order or take.

	Stock and Garden Fee (per Stock and Garden Water Entitlement)	Stock and Garden Casual Fee (per relevant Landholding)	Commercial and Industrial Fee (per relevant Landholding)	Commercial and Industrial Casual Fee (per relevant Landholding)
Buronga	\$436.00	\$530.00	\$1,089.00	\$1,265.00
Coomealla	\$304.00	\$366.00	\$760.00	\$879.00
Curlwaa	\$329.00	\$380.00	\$821.00	\$934.00

3.3.10 Coleambally Irrigation Cooperative Limited (CICL), NSW Murrumbidgee

Off-river IO hypothetical bill

The analysis assumes one irrigator in CICL's network who:

- holds a specific volume of general security irrigation right (50 ML, 250 ML or 1000 ML)
- holds an equivalent amount of general security water delivery right (50 ML, 250 ML or 1000 ML respectively) and
- is connected to the network through one large common irrigation outlet.

The 2016-17 hypothetical bill analysis includes the following charges listed on CICL's schedule of charges.

Fixed:

- CICL access fee (levied per ML of 'delivery entitlement' (water delivery right) held)
- compliance fee (levied per ML of 'delivery entitlement' (water delivery right) held)
- CIMCL Levy (levied per ML of 'delivery entitlement' (water delivery right) held)
- large outlet charge – common irrigation outlet (levied per large outlet)
- peak flow charge – large flume 12 to 30 ML/day (levied per ML of nominated peak flow for each outlet)
- government water charges – access fee (levied per ML of general security 'water entitlement' (irrigation right) held).

Variable:

- government water charges – usage fee (levied per ML of water delivered).

The peak flow charge is levied on the basis of the maximum flow capacity. For a large common irrigation outlet, the flow ranges from 12 ML to 30 ML per day. The maximum flow is nominated by the irrigator within this range. CICL has advised the ACCC that irrigators typically nominate a peak flow of 15 ML and that most irrigators hold a 'water entitlement' (irrigation right) of at least 1000 ML.

As such, the 2016-17 analysis assumes that in the 1000 ML scenario, the irrigator has a maximum peak flow of 15 ML per day; and in the 50 ML and 250ML scenarios, the irrigator has a maximum peak flow of 6 ML per day.

The government water charges access fee and the government water charges usage fee recover both WaterNSW and DPI Water fixed and usage charges imposed on CICL and passed on to customers.

- Government water charges - access fee: this fee (\$2.80) is equal to sum of the relevant fixed regulated WaterNSW (\$1.56/ML) and DPI Water Charges (\$1.24/ML) for the NSW Murrumbidgee valley. Therefore this analysis divides the CICL access fee into these two components.
- Government water charges - usage fee: this fee (\$5.18) is equal to the sum of the relevant variable regulated WaterNSW (\$4.36/ML) and DPI Water (\$0.82/ML) usage charges for the NSW Murrumbidgee valley. Therefore this analysis divides the CICL Government water charges fee into these two components.

2016-17 Schedule of charges

The ACCC sourced CICL's schedules of charges from CICL's website:
<http://new.colyirr.com.au/LinkClick.aspx?fileticket=qQD1oFqf2yg%3d&tabid=135>

2016-2017 Schedule of Water Access Charges			
Charge	A class High Security Delivery Entitlement	B class General Security Delivery Entitlement	G class High Security Delivery Entitlement
CICL Access Fee	\$18.74 / DE	\$ 10.86 / DE	\$19.72 / DE
Compliance Fee	\$ 1.02 / DE	\$ 1.02 / DE	\$ 1.02 / DE
CIMCL Levy	\$ 3.53 / DE (incl GST)	\$ 3.53 / DE (incl GST)	\$ 3.53 / DE (incl GST)
TOTAL	\$ 23.29 / DE	\$15.41 / DE	\$ 24.27 / DE
Outlet Charge			
S&G Outlet Charge (Stock & Garden outlet)	\$221.66 per small outlet (less than 70mm diameter) - not real time		
Small Outlet Charge (Horticulture outlet)	\$554.32 per large outlet (greater than 70 mm diameter - not real time delivering a maximum flow of 3 ML / day)		
Large Outlet Charge (common irrigation outlet)	\$886.91 per large outlet – real time metering (flumegate, MACE, Magflo Propeller etc.)		
Peak Flow Charge			
Peak Flow Charge	\$55.43 per ML peak flow for each outlet Peak flow will be chosen by the landowner within following range: Large Flume - 12 to 30 ML / day Small Flume - 6 to 12 ML / day (higher if able) - for a MACE, Magflo		
Fixed Charge Equivalent	\$18.86 / ML of usage exceeding 110% of Delivery Entitlement		
Single Farming Unit Administration Fee	Levied on a SFU	\$550.00 p.a. (incl GST)	
Non-Member Water Entitlement Holder Administration Fee	Levied per Non-Member Water Entitlement Holder	\$220.00 p.a. (incl GST)	
Water NSW Access Service Fee			\$163,680.00 p.a. (incl GST)
Connection Charge	Determined on a case by case basis, dependent on location and engineering requirements. Applicant advised of costs prior to commencement of works.		
Termination Fees			
Product terminated	Fee based on	Fee Payable	Payable To
High Security Delivery Entitlement	Number of DE terminated	\$190.90 + \$19.09 GST = \$ 209.99 \$ 32.10 + \$ 3.21 GST = \$ 35.31 \$245.30 inclusive of GST	CICL CIMCL
General Security Delivery Entitlement	Number of DE terminated	\$ 112.10 + \$ 11.21 GST = \$ 123.31 \$ 32.10 + \$ 3.21 GST = \$ 35.31 \$158.62 inclusive of GST	CICL CIMCL
Meter Outlet	Stock & Garden outlet Small Outlet Large Outlet	\$2,216.60 \$5,543.20 \$8,869.10	CICL CICL CICL
Peak Flow	ML/day of PF terminated	\$554.30 / ML	CICL
Government Water Charges			
Charge	A class High Security Water Entitlement	B class General Security Water Entitlement	G class High Security Water Entitlement
Access Fee	\$5.03 / ML	\$2.80 / ML	\$5.03 / ML
Usage Fee	\$5.18 / ML	\$5.18 / ML	\$5.18 / ML

3.3.11 Murrumbidgee Irrigation Limited (MI), NSW Murrumbidgee

Off-river IO hypothetical bill

The analysis applies to the following six types of irrigators across MI's four pricing groups:

- Small Area Supplies (SAS)
 - high security irrigation right holder
 - general security irrigation right holder
- Large Area Supply (LAS)
 - high security irrigation right holder
 - general security irrigation right holder
- Large Area Supply Wah Wah excluding IHS (LAW)
 - general security irrigation right holder
- Integrated Horticulture Supply (IHS)
 - high security irrigation right holder.

Each irrigator is assumed to hold a specific volume of irrigation right (50 ML, 250 ML or 1000 ML) of the relevant security, with an equivalent volume of 'delivery entitlement (50 ML, 250 ML or 1000 ML, respectively).

IHS customers are required to pay 75 per cent of the electricity charges that MI is charged. The remaining 25 per cent is shared among remaining MI customers. Electricity usage charges depend on several factors, including the level of water pressure and the time period of electricity use (peak/off peak periods). The electricity charge calculated for the 2016-17 hypothetical bill analysis is a weighted average of peak, shoulder and off-peak times across all IHS pump stations.⁷⁹

Further assumptions for calculating hypothetical bills include that irrigators:

- in all pricing groups have one farm connected and thus pay the landholding charge once
- in the LAS and LAW pricing group have two outlets connected and thus pay the outlet charge twice
- in the SAS and IHS pricing groups have one outlet connected and thus pay the outlet charge once.

The 2016-17 hypothetical bill analysis for a customer in each of MI's six irrigation networks includes the following charges listed on MI's schedule of charges.

Fixed:

- landholding charge (levied per landholding)
- outlet charge (levied per outlet)

⁷⁹ The electricity charge included in the ACCC's analysis for Murrumbidgee Irrigation's IHS charges for 2016-17 is based on the electricity charges actually paid by irrigators (rather than those reported on Murrumbidgee Irrigation's 2016-17 schedule of charges). Murrumbidgee Irrigation has supplied these actual electricity charges to the ACCC. The ACCC has calculated the IHS electricity charges as the weighted average for peak, shoulder and off-peak times weighted across all IHS pump stations. This is the same method used to calculate electricity charges since 2012-13. However, there is insufficient information available to use this method of calculation for years prior to 2012-13.

- facilities charge - tier 1, 2 and 3 (levied per ML of 'delivery entitlement' (water delivery right) held in relevant tier)
- government bulk water recovery charge - fixed (levied per ML of 'water entitlement' (irrigation right) held).

Variable:

- usage charge - normal usage (levied per ML of water delivered)
- government bulk water recovery charge - usage (levied per ML of water delivered)
- IHS energy charges (IHS only) (levied per ML of water delivered).

In addition to these charges LAS high security, LAS general security and LAW general security customers may pay the (fixed) rice monitoring fee, but this is not included in the hypothetical bills.

The facilities charge is levied in a tiered system with the following structure:

- Tier 1: 0-50 ML of delivery entitlements
- Tier 2: 51-250 ML of delivery entitlements
- Tier 3: > 250 ML of delivery entitlements.

For example, for an irrigator with 300 ML water delivery right, the irrigator would pay Tier 1 charges for the first 50 ML, Tier 2 charges for the next 200 ML and Tier 3 charges for the last 50 ML. Facilities charges decrease as an irrigator reaches higher tiers.

The government bulk water recovery (fixed) charge and the government bulk water recovery charge (usage) recover both WaterNSW and DPI Water fixed and usage charges imposed on MI and passed on to customers.

The hypothetical bill analysis makes the following assumptions to separate the WaterNSW and DPI Water charge components for the relevant MI government charges:

- Government bulk water recovery charge - fixed:
 - For high security customers, the 'Government bulk water recovery high security charge' (\$4.96/ML of irrigation right) has been separated into \$3.74/ML for the fixed WaterNSW charge and \$1.22 /ML of for the DPI Water fixed charge. These amounts approximate the actual regulated WaterNSW fixed charge for high security customers of \$3.79/ML of irrigation right and actual regulated DPI Water charge for high security customers of \$1.24/ML of irrigation right. The proration of the actual WaterNSW and DPI charges were applied to the MI charge of \$4.96 above.
 - For general security customers, the Government bulk water recovery – fixed general security charge (\$2.73/ML of irrigation right) has been separated into \$1.52/ML of irrigation right for the fixed WaterNSW charge and \$1.21 /ML of irrigation right for the DPI Water fixed charge. These amounts approximate the actual regulated WaterNSW fixed charge for high security customers of \$1.56/ML of irrigation right and actual regulated DPI Water charge for high security customers of \$1.24/ML of irrigation right. The proration of the actual WaterNSW and DPI charges were applied to the MI charge of \$4.96 above.
- Government bulk water recovery charge - usage: the combined charge on MI's schedule, \$6.41/ML of irrigation right, exceeds the sum of the regulated WaterNSW charge (\$4.36/ML of irrigation right) and DPI charge (\$0.82/ML of irrigation right). The remaining \$1.23/ML may represent recovery of charges levied in relation to conveyance water. The ACCC has split MI's conveyance water allowance into WaterNSW and DPI Water components by applying the proration of the actual WaterNSW and DPI charges.

2016-17 Schedule of charges

The ACCC sourced MI's schedule of charges from its website:

<http://www.mirrigation.com.au/Customers/Schedule-of-Charges/Schedule-of-Charges-2016-17>

- ▶ EASYWATER
- ▶ Water Allocations
- ▶ **Schedule of Charges**
- ▶ Pricing Calculator
- ▶ Contracts and Rules
- ▶ Forms
- ▶ Newsletters
- ▶ Sign up for Quick Contact Register

SCHEDULE OF CHARGES 2016-17 _ CHANGES V10

Effective 1 July 2016

Link ▶ Forms Including Standard Fees and Service Charges

Link ▶ Interest rate on overdue accounts

Note: This Charges Schedule should be read in conjunction with:

- ▶ Information Statement 2016-17 - released on 9 June 2016
- ▶ Water Entitlements Contract
- ▶ Water Delivery Contract
- ▶ Charges Rules
- ▶ Service Levels and Flow Rate Schedule
- ▶ Network Service Plan

▶ Download a printable PDF version of the Charges Schedule 2016-17

Table 1a: PREMIUM PRICING GROUPS - NORMAL USAGE

Pricing Groups	Annual Fixed Charges \$ (Elements of total Network Access Charge)					Usage Charges \$
	Landholding and Outlet Charges		Facilities Charges (Per delivery entitlement) ²			Normal Use
	Per Landholding	Per Outlet	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	Per ML within DEs held
IHS	798.00	259.00	33.00	23.60	15.70	10.30
SAS	896.20	353.20	35.00	25.10	16.70	10.30
LAS	1,308.90	467.00	28.20	20.10	13.40	10.30
LAW	1,308.90	467.00	22.60	16.30	10.80	9.00
SD	704.80	190.20	28.00	20.00	13.30	10.30
SAR	-	353.20	35.00	-	-	10.30
WWSD	1,823.80	1,191.50	102.40	73.00	48.70	10.30
TOWNS Original DEs	896.20	353.20	18.50	-	-	10.30
TOWNS Acquired DEs	896.20	353.20	35.00	25.10	16.70	10.30
BIC	-	-	33.00	23.60	15.70	-

Table 1b: PREMIUM PRICING GROUPS - CASUAL USAGE

Pricing Groups	Casual Usage ² \$			Usage Charges \$
	Facilities Charges (per ML delivered without a corresponding DE) ¹			Casual Use
	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	Per ML outside DEs held
IHS	39.60	28.30	18.80	12.40
SAS	42.00	30.10	20.00	12.40
LAS	33.80	24.10	16.10	12.40
LAW	27.10	19.60	13.00	10.80
SD	33.60	24.00	16.00	12.40
SAR	42.00	-	-	12.40
WWSD	122.90	87.60	58.40	12.40
TOWNS Original DEs	22.20	-	-	12.40
TOWNS Acquired DEs	42.00	30.10	20.00	12.40

Table 2a: STANDARD PRICING GROUPS - NORMAL USAGE

Pricing Groups	Annual Fixed Charges \$ (Elements of total Network Access Charge)					Usage charges \$
	Landholding and Outlet Charges		Facilities Charges (Per delivery entitlement) ¹			Normal Use
	Per Landholding	Per Outlet	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	Per ML within DEs held
IHS	798.00	259.00	21.90	15.70	10.40	10.30
SAS	896.20	353.20	23.20	16.60	11.00	10.30
LAS	1,308.90	467.00	18.80	13.30	8.90	10.30
LAW	1,308.90	467.00	15.10	10.70	7.10	9.00
SD	704.80	190.20	18.60	13.20	8.90	10.30
SAR	-	-	-	-	-	-
WWSD	1,823.80	1,191.50	67.80	48.50	32.40	10.30
TOWNS Acquired DEs	-	-	23.30	16.60	11.00	10.30
CUDGEL	364.40	-	1.60	1.60	1.60	6.30
BIC	-	-	21.90	15.70	10.40	-

Table 2b: STANDARD PRICING GROUPS - CASUAL USAGE

Pricing Groups	Casual Usage ² \$			Usage Charges \$
	Facilities Charges (Per ML delivered without a corresponding DE) ¹			Casual Use
	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	Per ML outside DEs held
IHS	26.30	18.80	12.50	12.40
SAS	27.80	19.90	13.20	12.40
LAS	22.60	16.00	10.70	12.40
LAW	18.10	12.80	8.50	10.80
SD	22.30	15.80	10.70	12.40
SAR	-	-	-	-
WWSD	81.40	58.20	38.90	12.40
TOWNS Acquired DEs	28.00	19.90	13.20	12.40
CUDGEL	1.90	1.90	1.90	7.60

Table 3: GOVERNMENT BULK WATER RECOVERY CHARGES³

	Fixed \$	Usage \$
	\$ per Water Entitlement	\$ per ML used
High Security Water	4.96	6.41
General Security Water	2.73	6.41

Note: These rates reflect published bulk water charges for 2016-17. However, the Company may, at its discretion, apply different rates if the actual charges invoiced by WaterNSW to the Company are different from the published charges. If the invoiced bulk water charges differ from the charges set out in this Charges Schedule, the Company will adjust the bulk water charges and publish on its website a Charges Schedule incorporating the changes 10 business days before the charges become payable.

Table 4: IHS FILTRATION CHARGES

IHS Pumpstation	Fixed \$	Usage \$
	Per ha land ⁴	Per ML used
Stanbridge PS1	64.20	10.60
Stanbridge PS2	61.60	10.10
Yenda PS2	-	-
Yenda PS3	-	-

Table 5: IHS ENERGY CHARGES

	Peak \$	Shoulder \$	Off peak \$
Per ML used excluding GST	657.20	600.90	65.00

The IHS energy charges are applicable to all pumpstations, which include Tharbogang PS1 and PS2, Merungle Hill PS, Stanbridge PS1 and PS2, Yenda PS2 and PS3, Lateral 13A PS, Lateral 16 PS and Boronia Road PS.

Peak: 7:00am to 9:00am weekdays and 5:00pm to 8:00pm weekdays (excluding public holidays)

Shoulder: 9:00am to 5:00pm weekdays and 8:00pm to 10:00pm weekdays (excluding public holidays)

Off Peak: All other times

Note: These are the maximum rates payable by customers, however the Company may, at its discretion, apply lower rates if the actual charges invoiced to the Company are lower than anticipated charges.

► Link: IHS Charges - 1 July 2016 to 30 June 2016

Table 6: TERMINATION FEES (Including GST)

Pricing Groups	Elements of Total Network Access Charge x 10 + GST							
	Landholding & Outlet Charges \$		Facilities Charges \$					
	Per Landholding	Per Outlet	Premium Pricing Groups (per DE)			Standard Pricing Groups (per DE)		
			Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
IHS	8,778	2,849	363	259	172	240	172	114
SAS	9,858	3,885	385	276	183	255	182	121
LAS	14,397	5,137	310	221	147	206	146	97
LAW	14,397	5,137	248	179	118	166	117	78
SD	7,752	2,092	308	220	146	204	145	97
SAR	-	3,885	385	-	-	-	-	-
WWSD	20,061	13,106	1,126	803	535	745	533	356
TOWNS Acquired DEs	9,858	3,885	385	276	183	256	182	121
CUDGEL	4,008	-	-	-	-	17	17	17
BIC	-	-	363	259	172	240	172	114

Calculation of Termination Fees

1. Termination Fees, calculated based on the annual charge per Landholding, are charged when the right to delivery of water to a Landholding is terminated
2. Termination fees, calculated based on the annual charge per Outlet, are charged upon the closure of an Outlet
3. Tier 3 Delivery Entitlements of the relevant type, if any, are terminated first
4. Tier 2 Delivery Entitlements of the relevant type, if any, are terminated next
5. Tier 1 Delivery Entitlements of the relevant type, if any, are terminated last

MISCELLANEOUS CHARGES

Drainage Reuse:

\$6.40 per ML used (Minimum charge is \$210 per Water Year)

Wastewater discharge:

Initial application fee: \$467 including GST

Subsequent annual renewal fee: \$357 including GST

Incident investigation fees: \$119 per hour including GST, plus laboratory costs at cost (Laboratory costs are capped at a maximum of \$12,000 including GST per Incident)

Garden licence:

\$1,863 per licence. (Landholding charge applicable to Small Area Supplies plus a charge for 2 megalitres)

Pricing Group Definitions

- IHS Integrated Horticulture Supply (IHS-current and contracted)
- SA \$ Small Area Supplies (excluding IHS) generally < 240ML Entitlement
- LA \$ Large Area Supplies non-Wah Wah (excluding IHS)
- LAW Large Area Supplies Wah Wah (excluding IHS)
- SD Stock and Domestic Supplies
- SAR Small Area Residential Supplies based on a maximum number of Delivery Entitlements, approved by the Company upon application.
- WWSD Wah Wah Stock and Domestic Supplies
- TOWN\$ Town & Major Industries
- CUD Cudgel Creek
- BIC Base Inactive Accounts and Holding Customers (Related & Water Supply Customers grouped normally)
- Garden Licence Unmetered small area supplies up to a maximum of 2 megalitres

Footnotes:

1. If a customer's Delivery Entitlements (DEs) are allocated between both a Premium Pricing Group and a Standard Pricing Group, the number of Delivery Entitlements in the Premium Pricing Group are counted first when assessing the tiers applicable to the Delivery Entitlements in the Standard Pricing Group. For example, if a customer holds 250 Delivery Entitlements in the IHS-Premium Pricing Group, and 50 Delivery Entitlements in the IHS-Standard Pricing Group, the 50 Delivery Entitlements in the IHS-Standard Pricing Group would all be counted as Tier 3.
2. Casual Use includes water delivered where more than 120% of the customer's DEs have been exercised, or the customer does not hold any DEs. Casual Use will incur facilities charges in the relevant tier(s) as well as the relevant usage charge for each megalitre of water that is delivered as Casual Use. For example, if a customer holds 250 Delivery Entitlements, and receives 300 megalitres of water, the customer will not pay any casual facilities charges. However if the same customer used 320 megalitres of water, they would pay Tier 3 casual facilities charges plus the casual usage charge in relation to 70 megalitres of water delivered as Casual Use.
3. These are regulated charges determined by the Australian Competition & Consumer Commission (ACCC) and the Independent Pricing and Regulatory Tribunal (IPART). Bulk water charges from Water NSW and DPI Water are passed on by the Company to the Company's customers. Our 2016-17 charges schedule reflects the charges included in the respective final decision papers. The Company will apply different rates if the actual charges invoiced by Water NSW to the company are different from the anticipated charges.
4. The fixed charge is payable for any Landholding receiving water pumped from the relevant pump-station, calculated by multiplying the area of the Landholding (in hectares or part thereof) by the charge per hectare.

Table 2a: STANDARD PRICING GROUPS - NORMAL USAGE

Pricing Groups	Annual Fixed Charges \$ (Elements of Total Network Access Charge)					Usage Charges \$
	Landholding and Outlet Charges		Facilities Charges (per delivery entitlement) ¹			Normal Use
	per landholding	per outlet	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	per ML within DEs held
IHS	774.00	251.20	21.20	15.20	10.10	10.00
SAS	869.30	342.60	22.50	16.10	10.70	10.00
LAS	1,269.50	453.00	18.20	12.90	8.60	10.00
LAW	1,269.50	453.00	14.60	10.40	6.90	8.70
SD	683.60	184.50	18.00	12.80	8.60	10.00
SAR	-	-	-	-	-	-
WWSD	1,769.00	1,155.70	65.80	47.00	31.40	10.00
TOWNS Acquired DEs	-	-	22.60	16.10	10.70	10.00
CUDGEL	353.40	-	1.60	1.60	1.60	6.10
BIC	-	-	21.20	15.20	10.10	-

Table 2b: STANDARD PRICING GROUPS - CASUAL USAGE

Pricing Groups	Casual Usage ² \$			Usage Charges \$
	Facilities Charges (per ML delivered without a corresponding DE) ¹			Casual Use
	Tier 1 0-50 DEs	Tier 2 51-250 DEs	Tier 3 >250 DEs	per ML outside DEs held
IHS	25.40	18.20	12.10	12.00
SAS	27.00	19.30	12.80	12.00
LAS	21.80	15.50	10.30	12.00
LAW	17.50	12.50	8.30	10.40
SD	21.60	15.40	10.30	12.00
SAR	-	-	-	-
WWSD	79.00	56.40	37.70	12.00
TOWNS Acquired DEs	27.10	19.30	12.80	12.00
CUDGEL	1.90	1.90	1.90	7.30

Table 3: GOVERNMENT BULK WATER RECOVERY CHARGES³

	Fixed \$	Usage \$
	\$ per Water Entitlement	\$ per ML used
High Security Water	4.90	6.40
General Security Water	2.80	6.40

Note: These are the maximum rates payable by customers. However, the Company will apply lower rates if the actual charges invoiced to the Company are lower than anticipated charges.

Table 4: IHS FILTRATION CHARGES

IHS Pumpstation	Fixed \$	Usage \$
	per ha land ⁴	per ML used
Stanbridge PS1	62.30	10.30
Stanbridge PS2	59.70	9.80
Yenda PS2	62.00	8.70
Yenda PS3	42.30	8.10

Table 5: IHS ENERGY CHARGES

IHS Pump Station	Peak \$	Shoulder \$	Off Peak \$
	per ML used excluding GST		
Tharbogang PS1	637.40	582.80	63.00
Tharbogang PS2	637.40	582.80	63.00
Merungle Hill PS	637.40	582.80	63.00
Stanbridge PS1	637.40	582.80	63.00
Stanbridge PS2	637.40	582.80	63.00
Yenda PS2	637.40	582.80	63.00
Yenda PS3	637.40	582.80	63.00
Lateral 13A PS	637.40	582.80	63.00
Lateral 16 PS	637.40	582.80	63.00
Boronia Road PS	637.40	582.80	63.00

Note: These are the maximum rates payable by customers. However, MI may, at its discretion, apply lower rates if the actual charges invoiced by the energy supplier, to MI, are lower than anticipated charges.

Peak: 7:00am to 9:00am weekdays and 5:00pm to 8:00pm weekdays (Excluding public holidays)

Shoulder: 9:00am to 5:00pm weekdays and 8:00pm to 10:00pm weekdays (excluding public holidays)

Off Peak: All other times

MISCELLANEOUS CHARGES

- **Rice Monitoring Fee:** \$174.60 per landholding
- **Drainage Reuse:** \$8.20 per ML used (The minimum charge is \$210 per Water Year)
- **Wastewater discharge:** Initial application fee: \$462 including GST. Subsequent annual renewal fee: \$346.50 including GST.
Incident investigation fees: \$115.50 per hour including GST, plus laboratory costs at cost.
(Laboratory costs are capped at a maximum of \$11,550 including GST per incident).

Table 6: TERMINATION FEES (Including GST)

Pricing Groups	Elements of Total Network Access Charge X 10 + GST							
	Landholding & Outlet Charges \$		Facilities Charges \$					
	Per Landholding	Per Outlet	Premium pricing groups (per DE)			Standard pricing groups (per DE)		
			Tier 1	Tier 2	Tier 3	Tier 1	Tier 2	Tier 3
IHS	8,514	2,763	352	239	159	222	159	105
SAS	9,562	3,769	373	254	169	235	168	112
LAS	13,965	4,983	301	204	136	190	135	90
LAW	13,965	4,983	241	165	110	152	108	72
SD	7,520	2,030	299	203	135	188	134	90
SAR	-	3,769	373	-	-	-	-	-
WWSD	19,459	12,713	1,092	556	370	517	369	246
TOWNS Acquired DEs	9,562	3,769	373	254	169	236	168	112
CUD	-	-	-	-	-	18	18	18
BIC	-	-	352	252	167	233	167	111

Calculation of Termination Fees

1. Termination Fees calculated based on the annual charge per Landholding are charged when the right to delivery of water to a Landholding is terminated.
2. Termination fees calculated based on the annual charge per Outlet are charged upon closure of an Outlet.
3. Tier 3 Delivery Entitlements of the relevant type, if any, are terminated first.
4. Tier 2 Delivery Entitlements of the relevant type, if any, are terminated next.
5. Tier 1 Delivery Entitlements of the relevant type, if any, are terminated last.

Pricing Group Definitions

- IHS Integrated Horticulture Supply (IHS-current and contracted)
- SAS Small Area Supplies (excluding IHS) generally < 240ML Entitlement
- LAS Large Area Supplies non-Wah Wah (excluding IHS)
- LAW Large Area Supplies Wah Wah (excluding IHS)
- SD Stock and Domestic Supplies
- SAR Small Area Residential Supplies based on a maximum number of Delivery Entitlements, approved by the Company upon application.
- WWSD Wah Wah Stock and Domestic Supplies
- TOWNS Town & Major Industries
- CUD Cudgel Creek
- BIC Base Inactive Accounts and Holding Customers (Related & Water Supply Customers grouped normally)

Footnotes:

1. If a customer's Delivery Entitlements (DEs) are allocated between both a Premium Pricing Group and a Standard Pricing Group, the number of Delivery Entitlements in the Premium Pricing Group are counted first when assessing the tiers applicable to the Delivery Entitlements in the Standard Pricing Group. For example, if a customer holds 250 Delivery Entitlements in the IHS-Premium Pricing Group, and 50 Delivery Entitlements in the IHS-Standard Pricing Group, the 50 Delivery Entitlements in the IHS-Standard Pricing Group would all be counted as Tier 3.
2. Casual Use includes water delivered where all of the customer's DEs have already been exercised, or the customer does not hold any DEs. Casual Use will incur facilities charges in the relevant tier(s) as well as the relevant usage charge for each Megalitre of water that is delivered as Casual Use. For example, if a customer holds 250 Delivery Entitlements, and receives 300 Megalitres of water, the customer will pay the Tier 3 casual facilities charges plus the casual usage charge in relation to 50 Megalitres of water delivered as Casual Use.
3. These are regulated charges determined by the Australian Competition & Consumer Commission (ACCC) and the Independent Pricing and Regulatory Tribunal (IPART). Bulk water charges are passed on by the Company from Water NSW and DPI Water to the Company's customers. Our 2015-16 charges schedule has been increased by 5% compared to our 2014-15 charges schedule in anticipation of a final review of water administration charges by IPART in June 2015. These are the maximum rates payable by customers, however the company will apply lower rates if the actual charges invoiced by Water NSW to the company are lower than the anticipated charges.
4. The fixed charge is payable for any Landholding receiving water pumped from the relevant pumpstation, calculated by multiplying the area of the Landholding (in hectares or part thereof) by the charge per hectare.

3.3.12 Hay Private Irrigation District (Hay), NSW Murrumbidgee

Off-river IO hypothetical bill

While Hay network did not deliver any water to irrigators during 2016-17 due to upgrades to its irrigation network, the ACCC has still calculated a hypothetical bill based on the assumptions below.

The analysis assumes one irrigator in Hay's network who:

- holds a specific volume of general security irrigation right (50 ML, 250 ML or 1000 ML)
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively)⁸⁰
- has a property over 4 ha and incurs an administration fee for that property size and
- has one 12 ML outlet connected to its farm.

The 2016-17 hypothetical bill analysis includes the following charges listed on Hay's schedule of charges.

Fixed:

- access fee – general (levied per ML of 'water delivery entitlement' (water delivery right) held)
- bulk water charges – State Water (WaterNSW) (levied per ML of 'water delivery entitlement' (water delivery right) held)
- bulk water charges – Office of Water (DPI Water) (levied per ML of 'water delivery entitlement' (water delivery right) held)
- asset levy – general (levied per ML of 'water delivery entitlement' (water delivery right) held)
- outlet charge – 12 ML outlet (levied per outlet)
- administration charge (>4 ha) (levied per property)
- resource management charge (General) (levied per ML of 'water entitlement' (irrigation right) held).

Variable:

- delivery charge – channel system (General) (levied per ML of water delivered).

The hypothetical bill analysis makes the following assumptions regarding WaterNSW and DPI charges:

- Fixed charges – the WaterNSW and DPI Water fixed charges used are those listed on Hay PID's schedule of charges under 'Bulk Water Charges – State Water' and 'Bulk Water Charges – Office of Water' respectively. These charges are the same as the relevant regulated WaterNSW and DPI Water Charges for the NSW Murrumbidgee valley
- Delivery charge – the actual WaterNSW (\$4.36/ML) and DPI usage charges (\$0.82/ML) for the Murrumbidgee valley are fully passed through to Hay customers through the delivery charge. The difference between the sum of these WaterNSW and DPI Water

⁸⁰ Customer information provided by Hay indicates that no actual Hay irrigator holds water access entitlement as large as 1000 ML. However, the ACCC's general conclusions in chapter 5 and 6 and remain unchanged.

fixed charges (\$5.18) and the delivery charge – channel system general (\$16.80 per ML of delivery entitlement) is assumed to be Hay's variable off-river infrastructure charge.

2016-17 Schedule of charges

The Hay Private Irrigation District provided the schedule of charges below to the ACCC. The network's website provides a schedule of charges for the current year only. See:

<http://www.haypid.com.au/files/Schedule-of-Fee-charges-2017-2018.pdf>

Schedule of Fees and Charges

Annual Fixed Fees		Charge rate
Access Fee General	\$ per ML of water delivery entitlement	
	Total number of water delivery entitlements general irrigation held for billing purposes between 1st July and 30th June of the current year	\$27.50
Bulk Water Charges – Water NSW	\$ per ML of water delivery entitlement	
	Bulk water charges do not apply in the calculation of termination fees and/or the calculation of security for the transformation of delivery rights.	\$1.56
Bulk Water Charges – Office of Water	\$ per ML of water delivery entitlement	
	Bulk water charges do not apply in the calculation of termination fees and/or the calculation of security for the transformation of delivery rights.	\$TBA
Access Fee S&D	\$ per ML of water delivery entitlement	
	Total number of water delivery entitlements S&D irrigation held for billing purposes between 1st July and 30th June of the current year	\$27.50
Administration Charge (<4 Hectares)	\$ per property	
	Total number of properties for billing purposes smaller in size for irrigation then (4 Ha) between 1st July and 30th June of the current year	\$180.00
Administration Charge (>4 Hectares)	\$ per property	
	Total number of properties for billing purposes larger in size for irrigation then (4 Ha) between 1st July and 30th June of the current year	\$338.15
Outlet Charge (Per 12ML outlet)	\$ per outlet	
	Total number of outlets (12ML) for billing purposes between 1st July and 30th June of the current year	\$155.00
Outlet Charge (Per 6ML outlet)	\$ per outlet	
	Total number of outlets (6ML) for billing purposes between 1st July and 30th June of the current year	\$135.00
Outlet Charge (Per pipe outlet)	\$ per outlet	
	Total number of outlets (pipe) for billing purposes between 1st July and 30th June of the current year	\$90.00
Asset Levy (General)	\$ per ML of water delivery entitlement	
	Total number of water delivery entitlements general irrigation held for billing purposes between 1st July and 30th June of the current year	\$4.50
Asset Levy (S&D)	\$ per ML of water entitlement	
	Total number of water delivery entitlements S&D held for billing purposes between 1st July and 30th June of the current year	\$4.50
Resource Management Charge (General)	\$ per ML of water entitlement	
	Total number of water delivery entitlements in general irrigation held for billing purposes between 1st July and 30th June of the current year	\$1.50
Resource Management Charge (S&D)	\$ per ML of water entitlement	
	Total number of water delivery entitlements in S&D held for billing purposes between 1st July and 30th June of the current year	\$1.50

*Hay Private Irrigation District – Schedule of Fees and Charges
2016 ~ 2017 Updated as of 3rd July 2016*

Delivery Service Charge For S&D Pipeline	Internal customer \$610 per 2ML of water delivered UP TO 2ML	\$610
	Charge on water delivered up to 2ML entitlement This water is delivered through the pipeline	
Delivery Service Charge For S&D Pipeline	External customers \$900 per 2ML of water delivered UP TO 2ML	\$900
	Charge on water delivered up to 2ML entitlement This water is delivered through the pipeline	

Annual Variable Fees		<i>Charge rate</i>
Internal customers Above Allocation / Entitlement Delivery Charge For S&D pipeline	\$0.305 per KL of water delivered above 2ML	\$0.305
	Charge on water delivered above 2ML entitlement This water is delivered through the pipeline	
External customers Above Allocation / Entitlement Delivery Charge For S&D pipeline	\$0.45 per KL of water delivered above 2ML	\$0.45
	Charge on water delivered above 2ML entitlement This water is delivered through the pipeline	
Delivery Charge Channel system (General)	\$ per ML (delivered)	\$16.80
	Total number of water delivery entitlements in general irrigation held for billing purposes between 1st July and 30th June of the current year water delivered through the channel system	
Delivery Charge Channel system (S&D)	\$ per ML (delivered)	\$16.80
	Total number of water delivery entitlements in S&D held for billing purposes between 1st July and 30th June of the current year water delivered through the channel system	
Delivery Charge Channel system (Supplementary)	\$ per ML (diverted)	\$16.80
	Total number of water entitlements diverted in Supplementary share held for billing purposes between 1st July and 30th June of the current year water delivered through the channel system	

Fees and Charges		<i>Rate</i>
Interest on overdue accounts	Rate set by the Reserve Bank of Australia for small overdrafts, plus 1%. This rate of interest is calculated daily and charged monthly to any overdue accounts.	
Disconnection or Reconnection	Disconnection or Reconnection+ GST	\$60.00
	Disconnected / Reconnection from the pipeline and general irrigation system as a result of overdue rates or charges will incur a disconnection fee.	

*Hay Private Irrigation District – Schedule of Fees and Charges
2016 ~ 2017 Updated as of 3rd July 2016*

Installation and Removal/Upgrade of Outlets or Structures	Please refer to relevant guidelines in relation to this.	
Search Fees		Per application+ GST \$60.00
	For the processing of a request received on the appropriate search application form and an appropriate form is forwarded to the applicant on a search reply form. These forms can encompass both financial and water entitlement/shares search,	
Termination Fee	Ten times annual fix water charges	
	charged at ten times the fixed charges of the applicants annual Water account in accordance with rules set be the ACCC	
Transformation Application fee		Per application+ GST \$350.00
	This fee is levied to process transformation of water entitlements. The fee is the cost to process the application in accordance with rules set be the ACCC	
Delivery of water after Termination and or Customers with no Delivery Right	Please refer to relevant guidelines in relation to this.	
Temporary Transfer Fee	Fees for Delivery of Water After Termination of Delivery Right and/or Future Customers Who Do Not Hold a Delivery Right in the System	Per application+ GST \$10.00
	This fee is charged for the processing of a temporary transfer of water – both internal and external – off the Hay	
Non- Compliance Fee		Per incident \$220.00
	Non – compliance with Hay PID operational rules & water restrictions These fees are charged at the discretion of the board and the board's decision is final.	
Dishonoured Cheque		Per incident
	Dishonoured cheque double the bank fee incurred	
Service Callout		Per callout per hour+ GST \$75.00
	Callout for Damaged to services / meter / Infrastructure + cost of repairs One hour minimum.	

3.3.13 Jemalong Irrigation Limited (Jemalong), NSW Lachlan

Off-river IO hypothetical bill

The analysis assumes one irrigator in Jemalong's network who:

- holds a specific volume of general security irrigation right (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of general security delivery entitlement (50 ML, 250 ML, or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on Jemalong's schedule of charges.

Fixed:

- fixed access charge (levied per ML of 'delivery entitlement' (water delivery right) held)
- government fixed charge (levied per ML of 'water entitlement' (irrigation right) held)
- conveyance fixed charge (levied per ML of 'delivery entitlement' (water delivery right) held).

Variable:

- usage charge (levied per ML of water delivered)
- government usage charge (levied per ML of water delivered).

Jemalong's listed government charges (fixed, conveyance and usage) recover both WaterNSW and DPI Water fixed and variable charges imposed on Jemalong and passed through to its customers. The hypothetical bill analysis makes the following assumptions to separate WaterNSW and DPI Water fixed and variable charge components:

- Government fixed charge - the actual DPI Water fixed charge listed on DPI's schedule of charges (\$1.36), is fully passed through to Jemalong's customers. The difference between the actual DPI Water fixed charge and the government fixed charge is the WaterNSW fixed charge component of the government fixed charge (\$3.28) minus the relevant ICD rebate (\$0.65 per ML of irrigation right).
- Conveyance fixed charge - the components of Jemalong's conveyance fixed charge (\$1.02) are separated using a ratio of the actual WaterNSW⁸¹ and DPI Water fixed charges. The WaterNSW component of the conveyance fixed charge is \$0.72/ML and the DPI Water component is \$0.30/ML.
- Government usage charge - the government usage charge listed on Jemalong's statement of charges (\$22.92/ML) is 2 cents larger than the sum of the regulated WaterNSW (\$21.12/ML) and the DPI Water variable charges (\$1.82/ML) for the Lachlan valley.

2016-17 Schedule of charges

The ACCC sourced Jemalong's schedule of charges from its website:

http://jemalongirrigation.com.au/uploaded_files/20162017-6308.pdf

81 The WaterNSW charge used here is \$3.24 /ML. That is, it does not include a deduction for the ICD rebate mentioned above.

JIL Water Charges Schedule 2016-2017

Combined Charges (with matching Water & Delivery Entitlements)		
Fixed Charge (charged per Water/Delivery Entitlement)*	(\$7.80+\$4.06)	\$11.86
Conveyance Fixed Charge (charged per Delivery Entitlement)**		\$1.02
Usage Charge (charged per ML used)***	(\$8.02+\$22.92)	\$30.94
TOTAL WATER CHARGES (with matching entitlements and usage)		\$43.82

<i>Combined charges are made up of;</i>	
<i>Jemalong Irrigation Charges</i>	
Fixed Access Charge (charged on each Delivery Entitlement)	\$7.80
Usage Charge (charged for each ML used)	\$8.02
TOTAL JIL CHARGES	\$15.82
<i>Government Water Charges</i>	
Fixed Charge (charged per ML of Water Entitlement)	\$4.06
Conveyance Fixed Charge (charged per Delivery Entitlement)**	\$1.02
Usage Charge (charged for each ML used)	\$22.92
TOTAL GOVERNMENT WATER CHARGES	\$28.00

Quarterly Charges 2016-2017	
1st.	Usage+first quarter of 2016-2017 fixed
2nd.	Usage+ second quarter of 2016-2017 fixed
3rd.	Usage+third quarter of 2016-2017 fixed
4th.	Usage+fourth quarter of 2016-2017 fixed

Table indicating the average cost per ML of water used with a 1,000ML water & 1000 Delivery Entitlement scenario					
ML used in one year	Total Fixed Charges	Total Usage Charge	Total ALL Charges	Ave cost per ML used	% of allocation used
1000	\$12,880	\$30,940	\$43,820	\$43.82	100%
750	\$12,880	\$23,205	\$36,085	\$48.11	75%
500	\$12,880	\$15,470	\$28,350	\$56.70	50%
250	\$12,880	\$7,735	\$20,615	\$82.46	25%

Disconnection Fees (Physical removal of outlet from system)	
Unmetered Pipe	\$510
Dethridge Wheel	\$1,080
Metered Pipe (Water Management Outlet)	\$1,520
Termination Charge (10 x (Delivery Entitlement terminated + Conveyance Fixed Charge)) including GST	\$97.02
Casual Usage Charge (3 x JIL Access Charge + combined usage charge)	\$54.34
Temporary Transfer Exit Charge (per ML) including GST	\$5.29

* Sum of JIL Access Charge and Government Fixed Charge

**This charge was formally levied as part of the combined Govt. fixed charges, but is now shown as a separate line item.

*** Sum of Government Usage Charge and JIL Usage Charge

Note: JIL reserves the right to amend charges if required.

3.3.14 Narromine Irrigation Board of Management (Narromine), NSW Macquarie

Off-river IO hypothetical bill

The analysis assumes one irrigator in Narromine's network who:

- holds a specific volume of irrigation right (50 ML, 250 ML or 1000 ML), and
- holds an equivalent amount of delivery entitlement (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis for NIBM includes the following charges listed on its schedule of charges.

Fixed:

- NIBM access fee (levied per ML of 'delivery water entitlements' (water delivery right) held)
- WaterNSW ('State Water Corporation') fixed charge (levied per ML of 'water entitlement' (irrigation right) held)
- DPI Water ('NSW Office of Water') fixed charge (levied per ML of 'water entitlement' (irrigation right) held)
- metering charge (levied per property)
- administration charge (levied per account).

Variable:

- NIBM variable charge (levied per ML of water delivered)
- WaterNSW ('State Water Corporation') usage charge (levied per ML of water delivered)
- DPI Water ('NSW Water') usage charge (levied per ML of water delivered).

The analysis assumes that the irrigator:

- operates one property, incurring the metering charge once and
- operates one account, incurring the administration charge once.


The hypothetical bill analysis makes the following assumptions regarding WaterNSW and DPI Water fixed and variable charge components:

- Fixed charges: Narromine's DPI Water (\$1.62/ML) and WaterNSW (\$3.62/ML) fixed charges are fully passed through to its customers. While the WaterNSW fixed charge is the same as listed on Narromine Irrigation Board of Management's schedule of charges, the DPI charge appears to be 36 cents greater. The ACCC has used the lesser amount in its calculation of the hypothetical bill
- Variable usage charges –
 - Narromine's DPI Water (\$2.34/ML) usage charge is larger than the regulated DPI Water charge (\$1.75/ML) for the Macquarie valley.
 - Narromine's WaterNSW usage charge (\$19.50/ML) is larger than the regulated WaterNSW regulated usage charges for the Macquarie valley (\$16.97/ML).

The difference between Narromine's DPI Water and WaterNSW usage charges and the regulated WaterNSW usage charges accounts for conveyance losses.

2016-17 Schedule of charges

The ACCC sourced Narromine's schedule of charges from its website:
<http://narromineirrigation.com.au/index.html>.

NARROMINE IRRIGATION BOARD OF MANAGEMENT		
Member & Water Users 2016 - 2017 Pricing Schedule		
<p>What is included in your account? Narromine Irrigation Board of Directors has approved the water and related service charges for 2013/2014, identified in the schedule</p> <p>Usage Charges Based on the volume of water used (ML), these include</p> <ul style="list-style-type: none"> - Scheme water supply - Government water supply charge <p>Fixed Charges these include:</p> <ul style="list-style-type: none"> - Government Entitlement Charge. - NSW Office of Water Charges - Based on Water Entitlement <p>Based on Delivery Water Entitlements (DWE)</p> <ul style="list-style-type: none"> - NIBM Scheme Access Fee <p>Quarterly Invoices Invoices will be issued quarterly, and will include:</p> <ul style="list-style-type: none"> - One quarter of the annual fixed charges - Usage charges for the relevant period. <p>Overdue accounts will incur 10 per cent interest charge per annum</p> <p>Supplementary Water Charges Up to \$20/ML at the pump site plus all costs</p> <p>Abbreviations. WE - Water Entitlement DWE - Delivery Water Entitlement ML - Megalitre</p>	<p>Water Usage Charges This includes estimated 15% Losses</p> <p>State Water Corporation Usage---- \$19.50/ml NSW Water Usage Charge- - - - - \$2.34/ml</p> <p>NIBM Variable Charge - see breakdown below</p> <p>Pump Maintenance \$2.00 / ml Electricity \$13.66/ ml Total Usage Charge- - - - - \$37.50</p> <p>Fixed Charges - QFC's</p> <p>State Water Corporation Charges \$3.62 /WE NSW Office of Water Charges \$1.98 /WE NIBM Access Fee \$13.00/DWE + GST Administration Charge - - - - - \$100.00 per account p.a. + GST Metering Charge - - - - - \$100.00 per property p.a. + GST</p> <p>Excess Usage Charges 0-150% DWE \$0.00/ML over 150% of DWE \$26.00/ML</p> <p>Stock & Domestic QFC's Stock & Domestic QFC's 328.91 per quarter S&D Usage fees \$400 per ML</p> <p>Termination Fee DWE- - - - - calculated by office, depending on termination of some or all delivery entitlements Transfer of Debentures- - - - - \$70.00 plus GST Transfer of Permanent Water- - - - - \$70.00 plus GST Inspection of Register- - - - - Free Transformation Fee- - - - - \$70.00 + any on-costs +GST Bore Water Transfer through Scheme Channels .35c/km/ML</p>	

3.3.15 Buddah Lake Irrigators' Association (Buddah Lake), NSW Macquarie

Off-river IO hypothetical bill

Buddah Lake is a joint water supply scheme, meaning that customers jointly hold a single water access entitlement (rather than the operator holding the entitlement and customers holding irrigation rights).

The analysis assumes one irrigator in Buddah Lake's network who:

- holds a specific share of water access entitlement (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis includes the following charges listed on Buddah Lake's schedule of charges.

Fixed:

- operating and maintenance fee (levied per 1250 ML water delivery right per month (see below))

Variable:

- water charge (levied per ML of water delivered).

Buddah Lake's operating and maintenance fee includes the recovery of fixed WaterNSW and DPI Water charges imposed on Buddah Lake and passed through to its customers, as well as costs for its own off-river operations.

Similarly, Buddah Lake's water charge fee includes the recovery of variable WaterNSW and DPI Water charges imposed on Buddah Lake and passed through to its customers.

The hypothetical bill analysis makes the following assumptions to separate the WaterNSW and DPI Water charge components within each of the two relevant Buddah Lake charges.

- Operating and maintenance fee (OMF) – the fixed OMF is listed in the schedule of charges as a monthly fee for a defined volume of water delivery right. To enable comparisons across IIOs, the fee was adjusted to a per ML per annum amount for inclusion in the IIO hypothetical bill. This occurred through converting the monthly charge to an annual one (\$1450 monthly fee multiplied by 12 months = \$17 400) and dividing it by the amount of water delivery rights to which the annual OMF charge relates (the relevant volume of water delivery right is assumed to be 1250 ML, based on previous Buddah Lake's Schedules of Charges). The OMF per ML of water delivery right is \$13.92/ML.

The ACCC assumes that the actual WaterNSW (\$3.62/ML) and DPI Water fixed charges (\$1.62/ML) for the NSW Macquarie valley are fully passed through to Buddah Lake customers as part of the OMF. The difference between the sum of the actual WaterNSW and DPI Water fixed charges (\$5.24/ML), and the total OMF per ML (\$13.92/ML) is assumed to be Buddah Lake's fixed off-river infrastructure charge (\$8.68/ML).

- Water charge – the actual WaterNSW (\$16.97/ML) and DPI Water (\$1.75/ML) usage charges are fully passed through to Buddah Lake's customers. The difference between the sum of the actual WaterNSW and DPI Water usage charges (\$18.72/ML) and the water charge (\$33.00/ML) is equivalent to Buddah Lake's variable off-river infrastructure charge (\$15.21/ML).

2016-17 Schedule of charges

The Buddah Lake Irrigators' Association advised the ACCC that there have been no changes to its charging since 2015-16. The memo to network members is presented below.

BUDDAH LAKE IRRIGATORS' ASSOCIATION

TO: Members
FROM: Secretary
DATE: 10 August 2016
RE: Charges for 2016/17

OPERATING AND MAINTENANCE FEE

I am writing to advise all members that at a recent committee meeting it was agreed that the monthly charges will remain the same as last year at \$1450/month.

Members will be pleased to note that the allocation for 2016/17 is at 77%.

TERMINATION FEE AND LOSS TO REMAIN

The termination fee for this year will also remain unchanged \$7.66/ML x 10 = \$76.60/ML and the loss to be retained by the Scheme according to Sustainable Soils Management figures is 5.78%.

WATER PRICE

The water charge of \$33.00/ML is also unchanged.

3.3.16 Trangie-Nevertire Irrigation Scheme (Trangie-Nevertire), NSW Macquarie

Off-river IO hypothetical bill

Trangie-Nevertire is a joint water supply scheme, meaning that customers jointly hold a single water access entitlement (rather than the operator holding the entitlement and customers holding irrigation rights).

The analysis assumes one irrigator in the Trangie-Nevertire network who:

- holds a specific share of water access entitlement (50 ML, 250 ML or 1000 ML)
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively) and
- does not incur supplementary water or contract pumping surcharges.

The 2016-17 hypothetical bill analysis for Trangie-Nevertire includes the following charges listed on Trangie-Nevertire's schedule of charges.

Fixed:

- operating and maintenance (levied per ML of 'delivery entitlement' (water delivery right) held)
- State Water & NOW (WaterNSW & DPI Water) fixed charge (levied per ML of water access licence share held).

Variable:

- TNIS pumping charge (levied per ML of water delivered 'at farm gate')⁸²
- State Water usage charge (levied per ML of water delivered 'at farm gate').

The hypothetical bill analysis makes the following assumptions:

- a fixed charge per ML of delivery entitlement (i.e. water delivery right) as set out in Trangie-Nevertire's schedule of charges (\$15.26/ML per annum).
- the State Water and NOW charge \$5.24/ML of water delivery right divided into the regulated WaterNSW (previously State Water) and DPI Water (previously NOW) charges for the Macquarie valley, \$3.62/ML and \$1.62/ML respectively.
- a usage charge (TNIS pumping charge, 'at farm gate') of \$21.30/ML.
- a division of the State Water usage charge at farm gate (\$19.70/ML) into WaterNSW and DPI Water components. These are based on the regulated charges for WaterNSW in the Macquarie valley (\$16.97/ML) and for DPI Water (\$1.75/ML), 'grossed up to' account for the distribution losses allowed for in Trangie-Nevertire's charges.

2016-17 Schedule of charges

The ACCC sourced Trangie-Nevertire's schedule of charges from its website:

<http://www.tnis.net.au/charges>⁸³

⁸² Trangie-Nevertire's schedule of charges specifies variable charges both 'at river', and 'at farm gate'. The farm gate charges include an additional amount to recover costs associated with assumed average off-river conveyance losses of 17 per cent relative to volumes delivered.

⁸³Note that charges for 2016-17 are no longer on Trangie-Nevertire Irrigation Scheme's website.

Trangie Nevertire Irrigation Scheme

(02) 6888 7335
PO Box 20, Trangie NSW 2823
tnis@bigpond.com



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Charges

2016/2017 TNIS Charges

Fixed Charges

Operating & Maintenance	\$15.26 per Delivery Entitlement per annum (\$14.51)
WaterNSW & NSW Office of Water	\$5.24 Per WAL share (ML) held (\$5.49)
Termination Fee	\$152.60 per Delivery Entitlement surrendered (\$145.10)
Stock & Domestic Member	Charges will be levied separately by the TNSDS.

Usage Charges

	At River	At Farm Gate (@ 12% Losses)
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TNIS Pumping Charge	\$20.23/ML (\$16.53)	\$21.30/ML (\$18.78)
Water NSW/ NoW Usage	\$18.72/ML (\$17.29)	\$19.70/ML (\$20.22)
Total Per ML	\$38.95/ML	\$41.00/ML (\$39.00)

Riparian Water Surcharge (Charged once 100% of Delivery Entitlement pumped) \$20.89/ML at farm gate (\$20.00).

Supplementary water surcharge \$20/ML @ farm gate (\$20.00).

TNSDS 2016/17 CHARGES

Access charge: \$0.18/kilolitre of hectare allocation (\$0.16)

Meter charge: \$50/meter/year (\$50)

Usage charge: \$0.22/kilolitre registered on the meter (unchanged)

WaterNSW & Cow combined High Security charges are as follows:

Access Charge:	\$17.79/ML or \$0.01779c/kilolitre	(\$16.33/ML or \$0.01633c/kilolitre)
Usage Charge:	\$18.72/ML or \$0.01872c/kilolitre	(\$17.79/ML or \$0.01779c/kilolitre)

Delivery Entitlement Permanent Transfer Rules

1. In general, Delivery Entitlements are transferable within the TNIS / TNCL channel system, upon application to the TNIS / TNCL Boards. Transfers must be to land portions that are included within the TNIS Works Approval and be accompanied with the transfer of the corresponding number of TNCL shares.
2. Transfers upstream are generally allowable without restriction.
3. Transfers downstream or to another channel branch are subject to channel capacity restraints and will be considered by TNIS/TNCL on a case by case basis. Flow restrictions may be applied to protect the flow rates of existing Members on these branches.
4. All costs (if any) of the transfer, including any changes to the channel infrastructure, are to be paid by the transferring Members.
5. All Delivery Entitlements must be delivered through an approved metered farm outlet.

3.3.17 Tenandra Irrigation Scheme (Tenandra), NSW Macquarie

Off-river IO hypothetical bill

Tenandra is a joint water supply scheme, meaning that customers jointly hold a single water access entitlement (rather than the operator holding the entitlement and customers holding irrigation rights).

The analysis assumes one irrigator in Tenandra's network who:

- holds a specific share of water access entitlement (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of water delivery right (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bill analysis for Tenandra includes the following charges listed on its schedule of charges.

- the operating and maintenance fee – Bottom scheme (levied per 'delivery share' held (see below))
- outlet fee (levied per outlet)
- outlet usage fee (levied per outlet used each year)
- pumping charge (levied per ML of water delivered)
- WaterNSW and DPI Water fixed charges (levied per ML of share of water access entitlement held). Note that these charges are not listed on Tenandra's charging schedule. However an examination of actual irrigator bills from this network shows that these government charges are listed separately on these bills.

Tenandra's operating and maintenance fees is levied 'per delivery share'. The schedule states that the scheme delivery entitlements are 20 ML of water delivered each year of delivery share. As such, the ACCC has applied a conversion factor of 1:20 (=0.05) to convert fixed charges from '\$ per delivery share' to '\$ per ML of water delivery right held'.

Tenandra's schedule does not list out the WaterNSW and DPI Water charges passed through to customers:

- fixed Government charges including WaterNSW (\$3.62/ML) and DPI Water (\$1.62/ML) are added separately to hypothetical bills
- variable government charges are included in the pumping charge.

As Tenandra released two schedule of charges during 2016-17, this analysis uses a weighted average of the two.

2016-17 Schedule of charges

Tenandra provided the schedules of charges below to the ACCC as part of its response to the ACCC's request for information.

Tenandra Irrigation Scheme - Schedule of Charges (First Schedule) – Applicable 1 July 2016 to 30 September 2017

Tenandra Scheme

5 Lawson Street
WARREN NSW 2824
PO BOX 130
PHONE: 68 473367
FAX: 68 473401

2016-17 Fee Structure

16th September 2016

Operating and Maintenance

Top Scheme - \$505 per Delivery Share (DS)
Bottom Scheme - \$375 per Delivery Share (DS)

Outlet Fee - \$500 per outlet.
Outlet Usage \$500 per outlet used each year.

Pumping – \$50 per 50ML delivered

Pumping Surcharge

Scheme Delivery Entitlements are 20ML/year per ML of Delivery Share. A pumping surcharge will apply to any volume delivered over members Scheme Delivery Entitlement.

20-30 over Delivery Share \$5
30-40 over Delivery Share \$10
40-50 over Delivery Share \$15

**Tenandra Irrigation Scheme - Schedule of Charges (Second Schedule) – Applicable
1 October 2016 to 31 July 2017**

Tenandra Scheme

5 Lawson Street
WARREN NSW 2824
PO BOX 130
PHONE: 68 473367
FAX: 68 473401

2016-17 Fee Structure

From October 2016 onwards

Operating and Maintenance

Top Scheme - \$ 706 per Delivery Share (DS)
Bottom Scheme - \$510 per Delivery Share (DS)

Outlet Fee - \$500 per outlet.
Outlet Usage \$500 per outlet used each year.

Pumping – \$50 per 50ML delivered

Pumping Surcharge

Scheme Delivery Entitlements are 20ML/year per ML of Delivery Share. A pumping surcharge will apply to any volume delivered over members Scheme Delivery Entitlement.

20-30 over Delivery Share \$5
30-40 over Delivery Share \$10
40-50 over Delivery Share \$15

3.3.18 Marthaguy Irrigation Scheme (Marthaguy), NSW Macquarie

Off-river IO hypothetical bill

Marthaguy is a joint water supply scheme, meaning that customers jointly hold a single water access entitlement (rather than the operator holding the entitlement and customers holding irrigation rights).

The analysis assumes one irrigator in Marthaguy's network who:

- holds a specific share of general security water access entitlement (50 ML, 250 ML or 1000 ML) and
- holds an equivalent amount of general security delivery entitlement (50 ML, 250 ML or 1000 ML, respectively).

The 2016-17 hypothetical bills analysis includes the following charges listed on Marthaguy's schedule of charges:

Fixed:

- operating and maintenance charge (levied per ML of water delivery right held)⁸⁴
- WaterNSW⁸⁵ general security (levied per ML of share of water access entitlement held)
- DPI Office of Water general security (levied per ML of share of water access entitlement held)
- MRFF (Macquarie River Food and Fibre) (levied per ML of share of water access entitlement held)
- NSW Irrigators Council (levied per ML of share of water access entitlement held).

Variable:

- Marthaguy pumping charge (levied per ML of water delivered).

The WaterNSW and DPI Water fixed charges listed on Marthaguy's schedule of charges are used for the ACCC's hypothetical bill analysis for Marthaguy as they equal the regulated WaterNSW and DPI Water charges for the Macquarie valley.

While Marthaguy's schedule does not show the variable charges for WaterNSW and DPI Water, its pumping charge does include those charges. Marthaguy advised that there was no change to its 2016-17 charges, it has adjusted the pumping charge to incorporate changes in government charges. The 2016-17 WaterNSW was \$16.97 and DPI Water was \$1.75.

84 Marthaguy's schedule of charges does not specify units for charges. The ACCC has assumed that WPM and on-river infrastructure fixed charges are passed through based on customers' share of the jointly-held water access entitlement (WAE), while off-river infrastructure fixed charges are levied based on customers' water delivery rights. However, since the hypothetical bill analysis assumes customers hold an equivalent amount of water delivery right and share of the jointly-held WAE, this assumption has no effect on hypothetical bills.

85 Marthaguy's schedule of charges has not been updated for the change in name to WaterNSW and DPI Water.

2016-17 Schedule of charges

There were no changes to Marthaguy's 2015-16 schedule of charges and therefore it did not release a revised 2016-17 version.

Marthaguy 2015-16 Schedule of Charges

MIS Fixed & O & M Charges 2016

Please find below a break up of 2016 charges. Fixed charges have risen this year in line with the increase from WaterNSW but we have kept the O & M charges the same. Each member is invoiced quarterly.

Department	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	Increase /Decrease from previous year	per/meg /QTR
WaterNSW General Security	3.93	4.06	4.24	3.4	3.51	0.11	0.8775
DPI Office Of Water General Security	1.39	1.7	1.98	1.98	1.98	0	0.495
MRFF	0.35	0.45	0.47	0.47	0.47	0	0.1175
NSW Irrigators Council	0.09	0.09	0.09	0.09	0.09	0	0.0225
WaterNSW High Security & S & D	8.44	9.84	11.42	12.55	14.35	1.8	3.5875
DPI Office of Water High Security & S & D	1.39	1.7	1.9	1.98	1.98	0	0.495
						0	0
O & M Charges	10.79	10.79	10.79	10.79	10.79	0	2.6975
Riparian Charges	10.79	10.79	10.79	10.79	10.79	0	2.6975
Pumping Charges							
Total pumping/meg (incl WaterNSW pumping fee)	24.14	25.12	25.96	26.38	27.87	1.49	

Scheme Capacity is charged – O & M Charges only
MRFF & NSW IC - charged by General Security, High Security and Stock & Domestic.
General Security is charged – All Govt.Fixed Charges plus O&M
High Security and Stock & Domestic is charged – All Govt. fixed Charges plus O & M
Parked Water is charged – All Govt.fixed charges but no O & M until pumping goes over Scheme capacity when a riparian charge is incurred.
Riparian Charge is equivalent to O & M \$10.79
Contracted water is charged – Combined Riparian and pumping charge
All pumped water is charged – Pumping charge of \$27.87 (This Includes WaterNSW Fee of \$15.89 and DPI Fee of 1.90)

3.3.19 SunWater, Queensland

Off-river IO hypothetical bill

This hypothetical bill analysis calculates a hypothetical bill for a customer in the St George Water Supply Scheme. The St George Water Supply Scheme is the only off-river channel distribution scheme run by SunWater that is in the Murray–Darling Basin.

The analysis applies the conversion of irrigation right to an equivalent farm size because SunWater levies its drainage charge based on farm size in hectares.⁸⁶

The 2016-17 hypothetical bill analysis includes the following charges listed on SunWater's schedule of charges.

Fixed:

- allocation charge – bulk water charge – part A (levied per ML of 'water allocation' (water access entitlement) held)
- allocation charge – channel distribution – part C (levied per ML of 'water allocation' (water access entitlement) held)
- drainage charge (levied per hectare of irrigable land).

Variable:

- allocation water – bulk water charge – part B (levied per ML of water delivered)
- allocation water – channel distribution – part D (levied per ML of water delivered).

2016-17 Schedule of charges

The ACCC sourced SunWater's schedule of charges for the St George Water Supply Scheme from its website: <http://www.sunwater.com.au/schemes>. The schedule of charges for the St George Water Supply Scheme can be found at section 3.2.5.

⁸⁶ The ACCC has assumed 0.4 hectares per ML, following consultation with SunWater.