

# Water entitlement market price report – April 2019

### **Murray-Darling Basin**

A Final Report prepared for the Department of Agriculture and Water Resources

Tuesday 14 May 2019

# AITHER

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### Introduction

This water entitlement market price report has been prepared by Aither on behalf of the Australian Government Department of Agriculture and Water Resources.

This report includes details regarding Murray-Darling Basin water entitlement prices and trade activity. The entitlement types included within this report are detailed below:

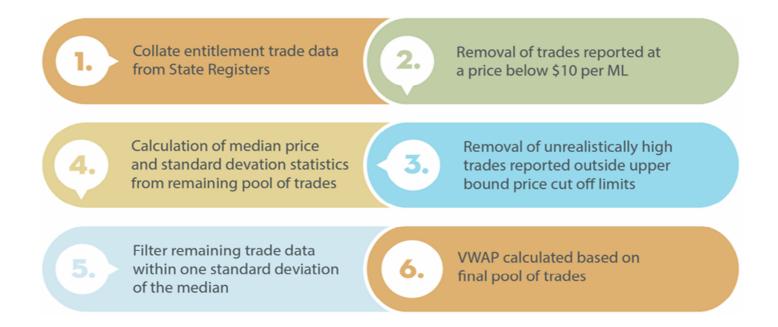
Southern Murray-Darling Basin Entitlements

SA Murray 3A, Vic 6 Murray HRWS, Vic 6 Murray LRWS, Vic 7 Murray HRWS, Vic 7 Murray LRWS, Vic 6B Lower Broken Creek LRWS, Vic 1A Greater Goulburn HRWS, Vic 1A Greater Goulburn LRWS, Vic 1B Boort LRWS, Vic 1B Boort LRWS, Vic 3 Lower Goulburn HRWS, Vic 3 Lower Goulburn LRWS, Vic 4C Lower Campaspe HRWS, Vic 4A Campaspe (Eppalock to WWC) HRWS, Vic 4A Campaspe (Eppalock to WWC) LRWS, Vic 5A Loddon HRWS, Vic 5A Loddon LRWS, Vic 5B Bullarook HRWS, Vic 5B Bullarook LRWS, NSW Murray HS, NSW Murray GS, NSW Murray Irrigation Limited GS, NSW Murrumbidgee HS, NSW Murrumbidgee GS, NSW Lower Darling HS, NSW Lower Darling GS.

Northern Murray-Darling Basin Entitlement types

NSW Macquarie GS, NSW Lower Namoi GS, NSW Upper Namoi GS, NSW Gwydir GS, NSW Border Rivers GS A, NSW Border Rivers GS B, NSW Barwon-Darling Unregulated A, NSW Barwon-Darling Unregulated B, NSW Barwon-Darling Unregulated C, NSW Lachlan GS, QLD Condamine-Balonne (St George) Supplemented, Condamine-Balonne QLD Condamine-Balonne (Lower Balonne) Unsupplemented, QLD Condamine-Balonne (Upper Condamine) Unsupplemented, QLD Central Condamine Alluvium Groundwater (1, 2, 3 and 4), QLD Upper Condamine Alluvium Groundwater (Dalrymple Creek) Groundwater, QLD Upper Condamine Alluvium Groundwater (Oakey Creek) Groundwater, QLD Condamine-Balone Lower Balonne Overland flow, QLD Border Rivers Supplemented (Macintyre Brook), QLD Border Rivers Unsupplemented.

A brief summary has been provided below:



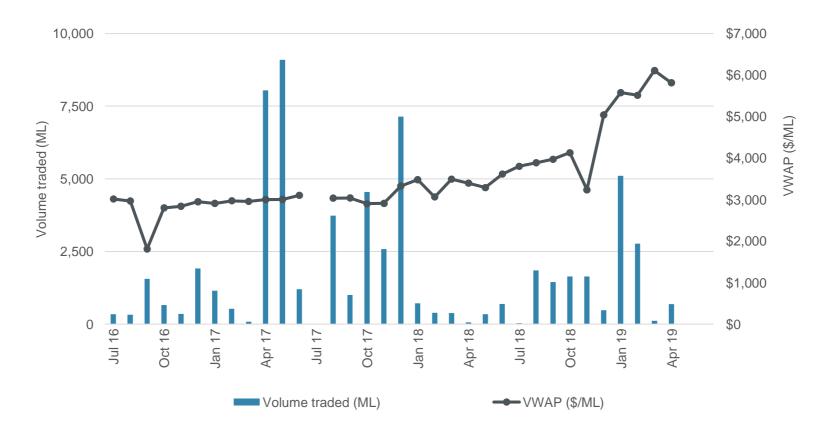
# **SA Murray**

### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
SA Murray 3A	\$5,814	\$5,925	10	685	69	\$5,800 - \$6,000

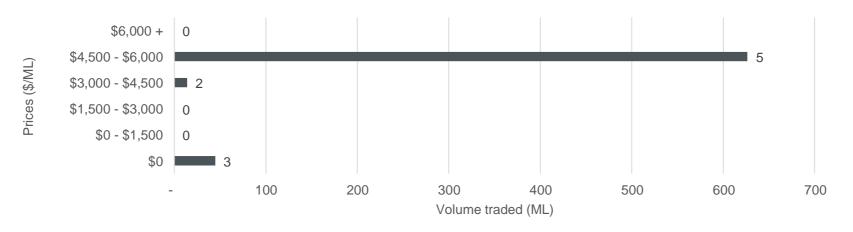
Source: Aither, 2019. Based on the SA Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the SA Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the SA Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

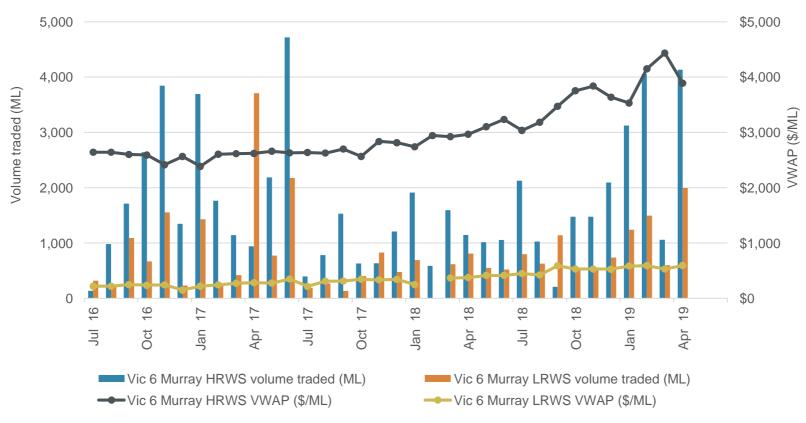
# Vic 6 Murray

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 6 Murray HRWS	\$3,890	\$4,523	34	4,132	122	\$4,500+
Vic 6 Murray LRWS	\$595	\$650	18	1,996	111	-

Source: Aither, 2019 Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019

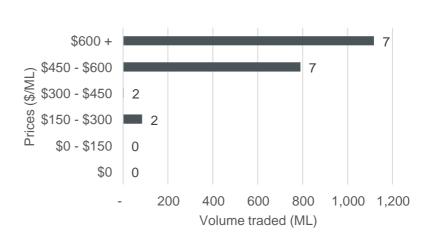


Source: Aither, 2019. Based on the VIC Water Register.

### Market price range, April 2019 Vic 6 Murray HRWS



### Vic 6 Murray LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

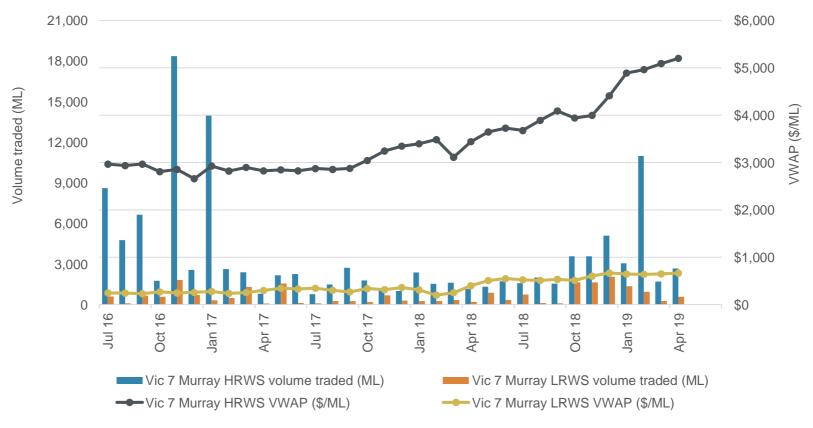
### Vic 7 Murray

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 7 Murray HRWS	\$5,201	\$5,950	44	2,669	61	\$5,500+
Vic 7 Murray LRWS	\$665	\$676	10	574	57	-

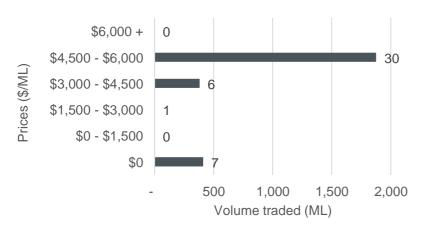
Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019

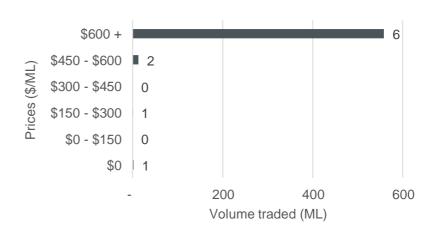


Source: Aither, 2019. Based on the VIC Water Register.

### Market price range, April 2019 Vic 7 Murray HRWS



### Vic 7 Murray LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

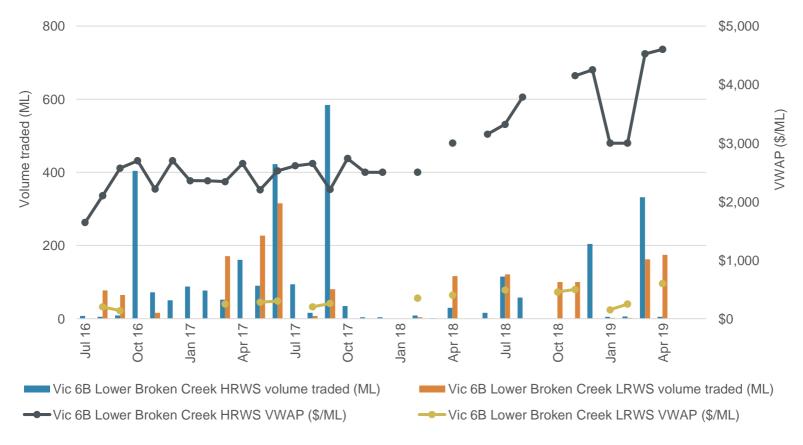
### Vic 6B Lower Broken Creek

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 6B Lower Broken Creek HRWS	\$4,600	\$4,600	1	5	5	-
Vic 6B Lower Broken Creek LRWS	\$600	\$600	1	174	174	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Registers.

### Market price range, April 2019 Vic 6B Lower Broken Creek HRWS

#### Vic 6B Lower Broken Creek LRWS



Source: Aither, 2019. Based on the VIC Water Registers.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

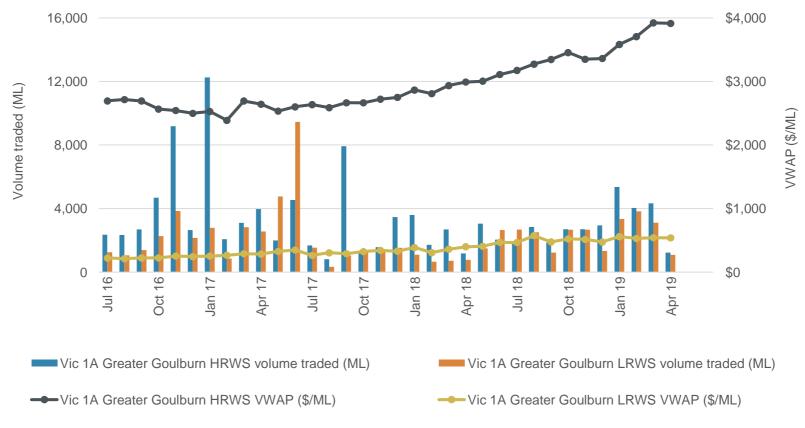
### Vic 1A Greater Goulburn

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 1A Greater Goulburn HRWS	\$3,913	\$4,200	46	1,214	26	\$3,800 - \$4,000
Vic 1A Greater Goulburn LRWS	\$538	\$600	23	1,083	47	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

### Market price range, April 2019 Vic 1A Greater Goulburn HRWS



#### Vic 1A Greater Goulburn LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

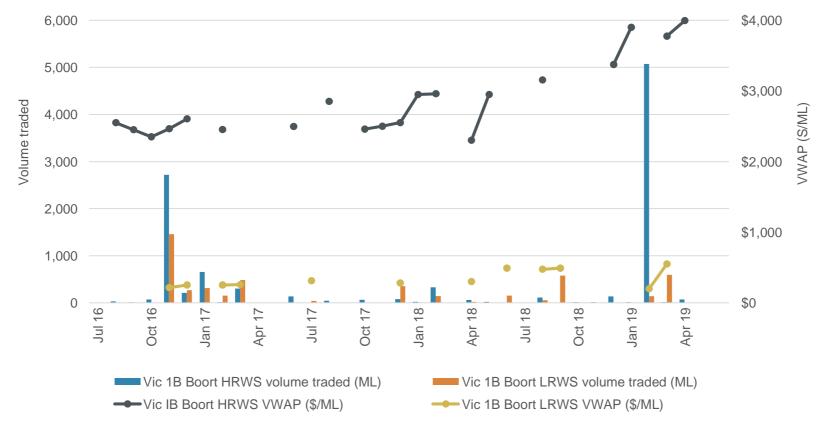
### Vic 1B Boort

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 1B Boort HRWS	\$3,994	\$4,000	3	71	24	-
Vic 1B Boort LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

#### Market price range, April 2019 Vic 1B Boort HRWS

#### Vic 1B Boort LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

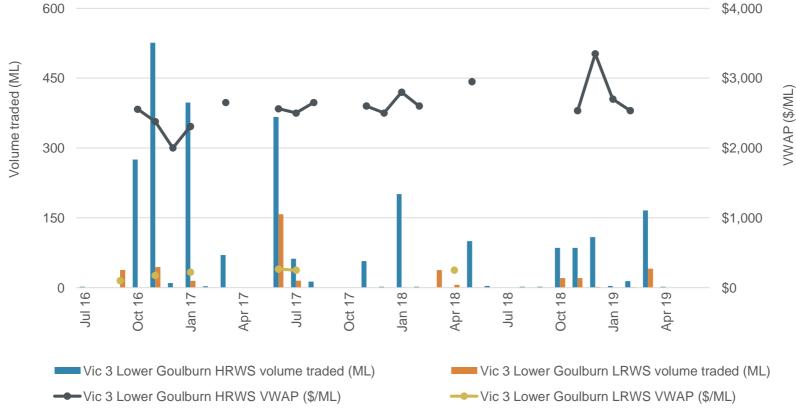
# Vic 3 Lower Goulburn

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 3 Lower Goulburn HRWS	-	-	1	2	2	-
Vic 3 Lower Goulburn LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019

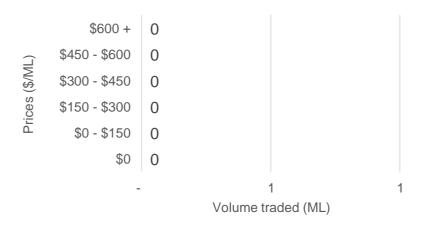


Source: Aither, 2019. Based on the VIC Water Register.

### Market price range, April 2019 Vic 3 Lower Goulburn HRWS

### 

#### Vic 3 Lower Goulburn LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

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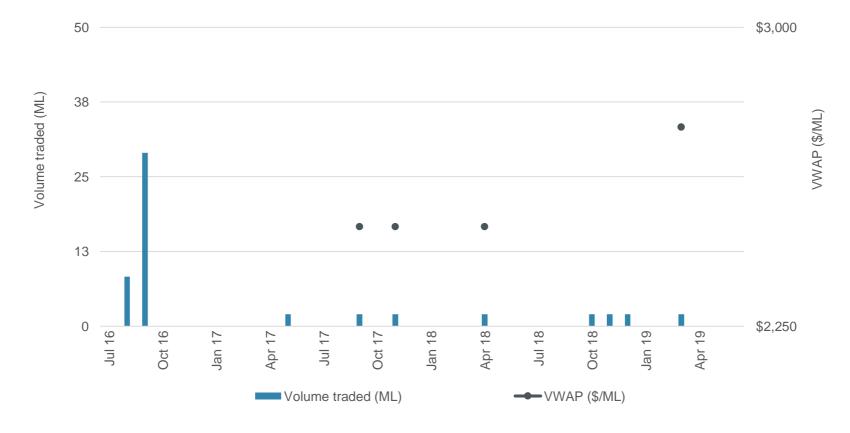
### Vic 4C Lower Campaspe

### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 4C Lower Campaspe HRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

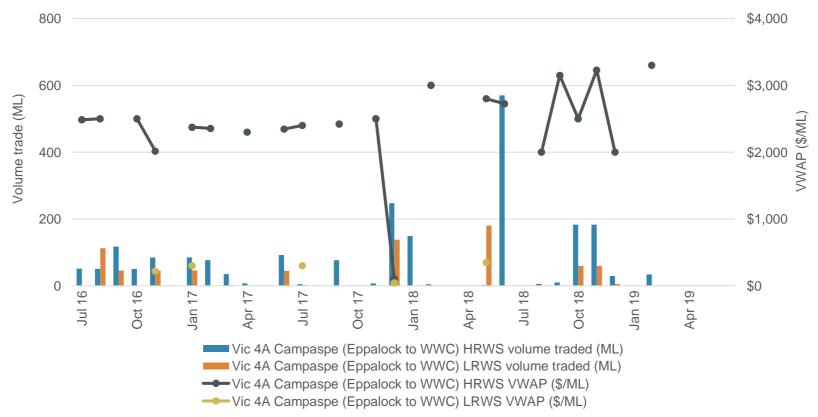
### Vic 4A Campaspe (Eppalock to WWC)

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 4A Campaspe (Eppalock to WWC) HRWS	-	-	-	-	-	-
Vic 4A Campaspe (Eppalock to WWC) LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

# Market price range, April 2019 Vic 4A Campaspe (Eppalock to WWC) HRWS

### Vic 4A Campaspe (Eppalock to WWC) LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

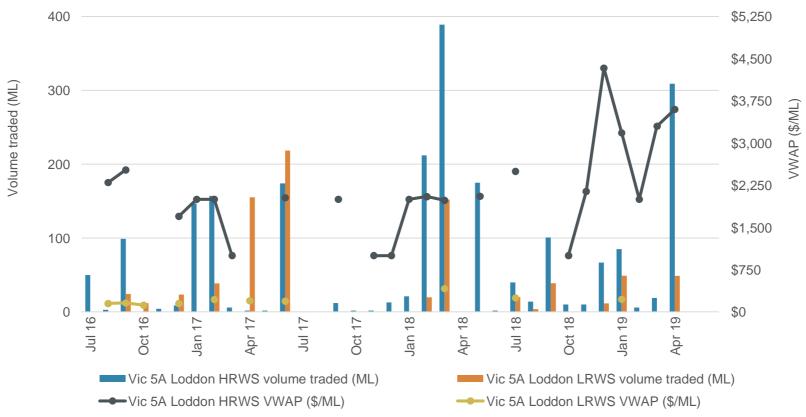
### Vic 5A Loddon

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 5A Loddon HRWS	\$3,600	\$3,600	2	309	155	-
Vic 5A Loddon LRWS	-	-	1	49	49	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019

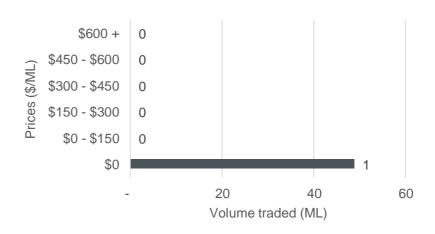


Source: Aither, 2019. Based on the VIC Water Register.

#### Market price range, April 2019 Vic 5A Loddon HRWS



### Vic 5A Loddon LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

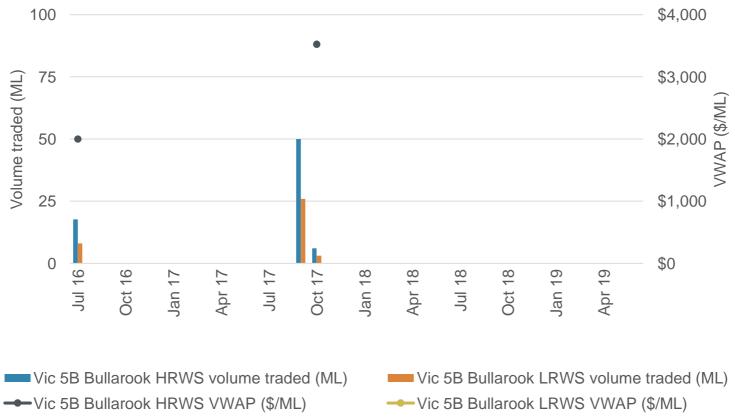
### Vic 5B Bullarook

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
Vic 5B Bullarook HRWS	-	-	-	-	-	-
Vic 5B Bullarook LRWS	-	-	-	-	-	-

Source: Aither, 2019. Based on the VIC Water Register and quotes sourced from water brokers.

### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the VIC Water Register.

#### Market price range, April 2019 Vic 5B Bullarook HRWS

#### Vic 5B Bullarook LRWS



Source: Aither, 2019. Based on the VIC Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

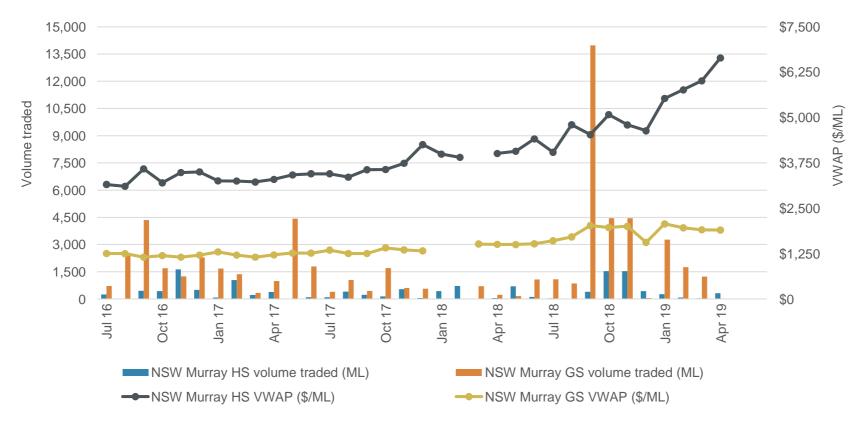
### **NSW Murray**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Murray HS	\$6,643	\$7,000	7	318	45	\$6,000+
NSW Murray GS	\$1,900	\$1,900	1	30	30	-

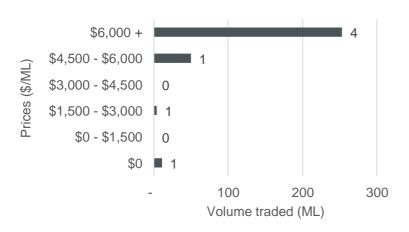
Source: Aither, 2019. Based on the NSW Water Register, and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019

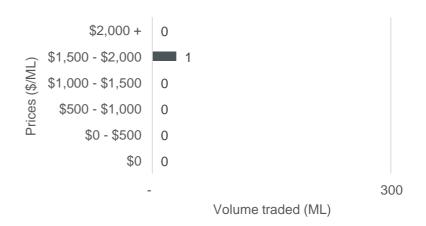


Source: Aither, 2019. Based on the NSW Water Registers.

### Market price range, April 2019 NSW Murray HS



### **NSW Murray GS**



Source: Aither, 2019. Based on the NSW Water Registers.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

# **NSW Murray Irrigation Limited**

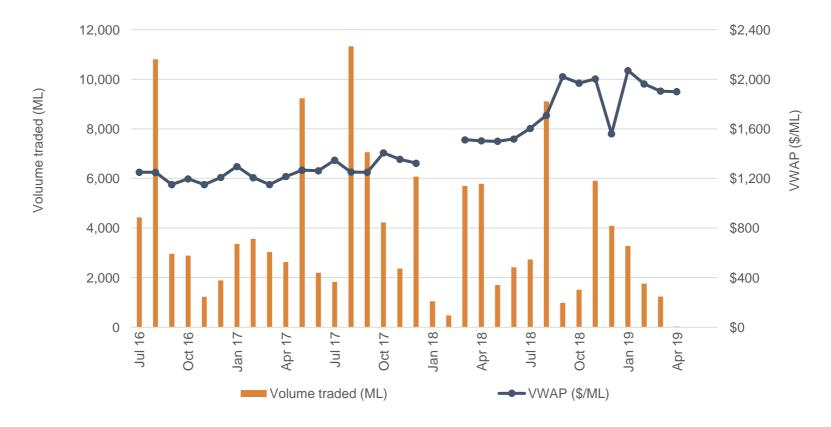
### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018- 19	(IVII ) ANT 7011X-	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Murray Irrigation Limited GS	\$1,900	\$1,900	2	80	40	-

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

Note: As trade prices within NSW Murray Irrigation GS are not reported Aither has presented NSW Murray GS on river prices instead given the common characteristics that these entitlements share.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

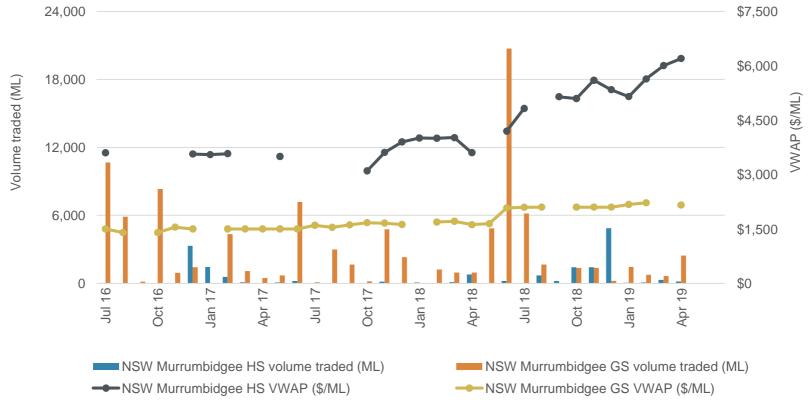
### **NSW Murrumbidgee**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19 Volume of trade (unfiltered) (ML Apr 2018-19		Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Murrumbidgee HS	\$6,200	\$6,200	2	164	82	\$6,000+
NSW Murrumbidgee GS	\$2,156	\$2,200	4	2,451	613	-

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

# Market price range, April 2019 NSW Murrumbidgee HS



### **NSW Murrumbidgee GS**



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

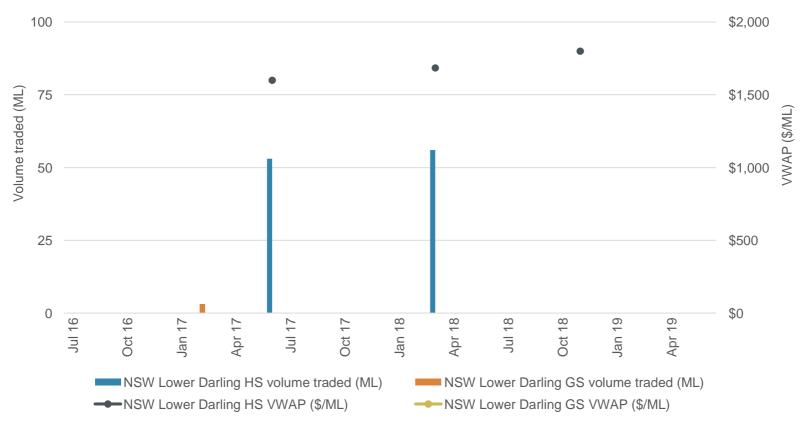
### **NSW Lower Darling**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	(unfiltered) Anr	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Lower Darling HS	-	-	-	-	-	-
NSW Lower Darling GS	-	-	-	-	-	-

Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

# Market price range, April 2019 NSW Lower Darling HS

### **NSW Lower Darling GS**



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

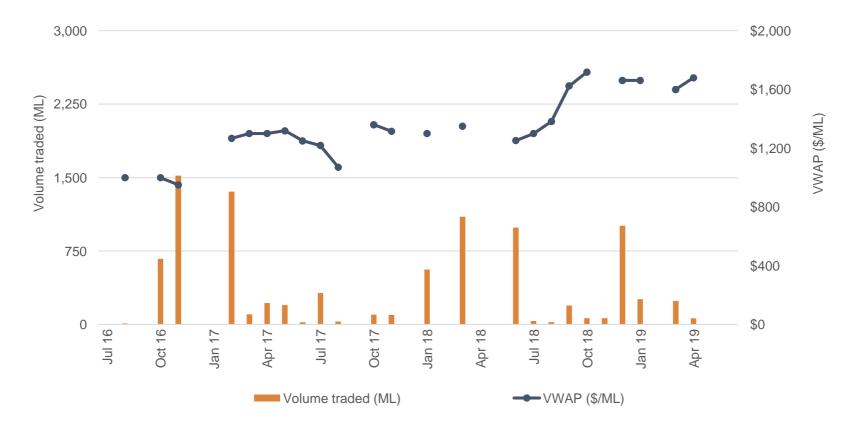
### **NSW Macquarie**

### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Macquarie GS	\$1,680	\$1,680	2	62	31	-

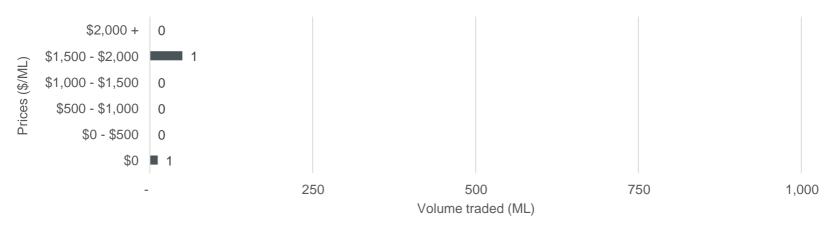
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

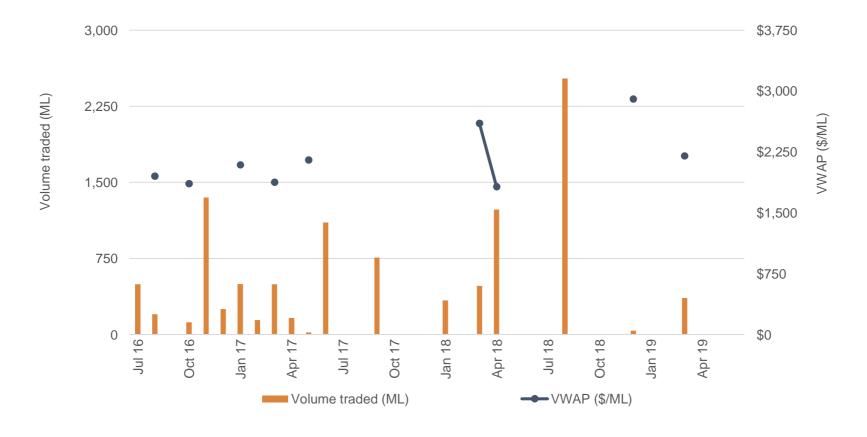
### **NSW Lower Namoi**

### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	AP (\$/ML) Apr Max Price (\$/ML) 2018-19 Apr 2018-19 (unf	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Lower Namoi GS	-	-	-	-	-	-

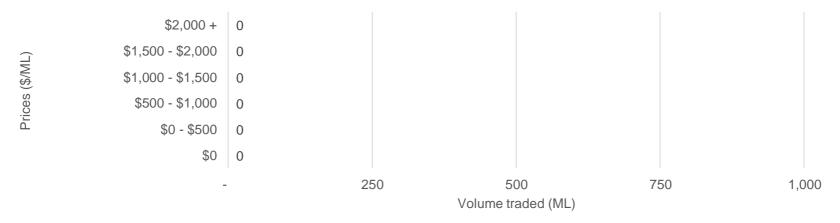
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Registers.

### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

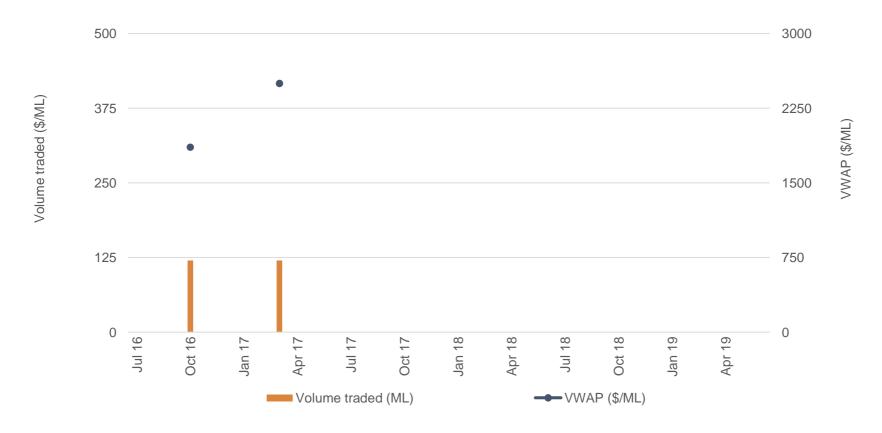
### **NSW Upper Namoi**

### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	(\$/ML) Apr Max Price (\$/ML) trades	(unfiltered) Apr	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Upper Namoi GS	-	-	-	-	-	-

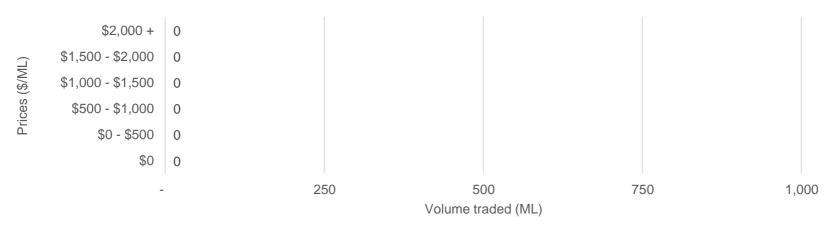
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

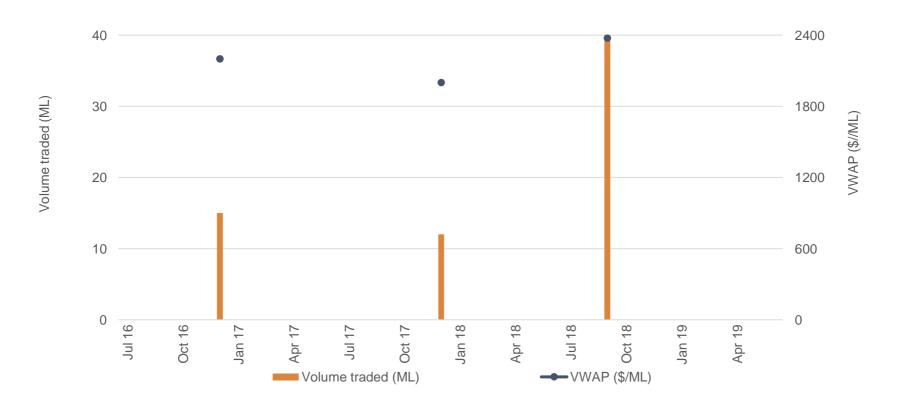
### **NSW Gwydir**

### **Entitlement market overview, April 2019**

Entitlement type	/WAP (\$/ML) Apr	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19	
NSW Gwydir GS	-	-	-	-	-	-

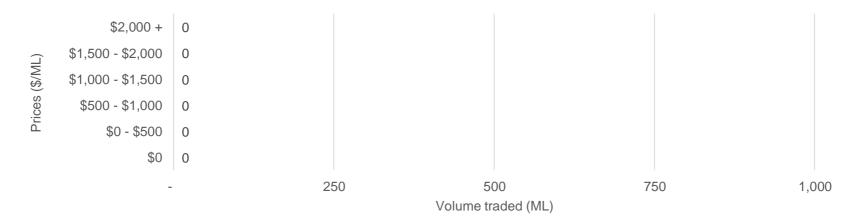
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

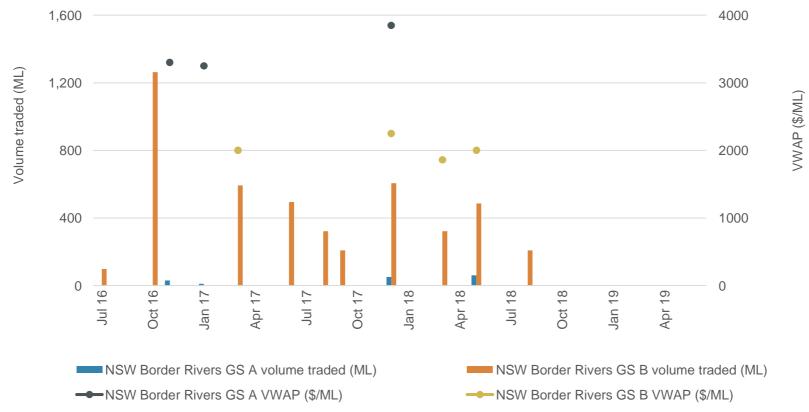
### **NSW Border Rivers**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	trades	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Border Rivers GS A	-	-	-	-	-	-
NSW Border Rivers GS B	-	-	-	-	-	-

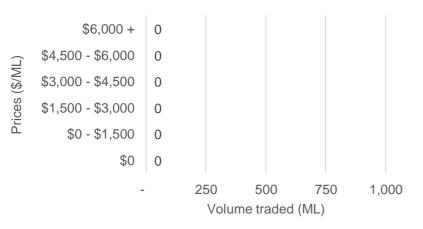
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

#### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

### Market price range, April 2019 NSW Border Rivers GS A



#### **NSW Border Rivers GS B**



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

# **NSW Barwon-Darling Unregulated**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	Max Price (\$/ML) Apr 2018-19	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Barwon-Darling	_	_	_	_	_	_
Unregulated A						
NSW Barwon-Darling						
Unregulated B	-	-	-	-	-	-
NSW Barwon-Darling						
Unregulated C	-	-	-	-	-	-

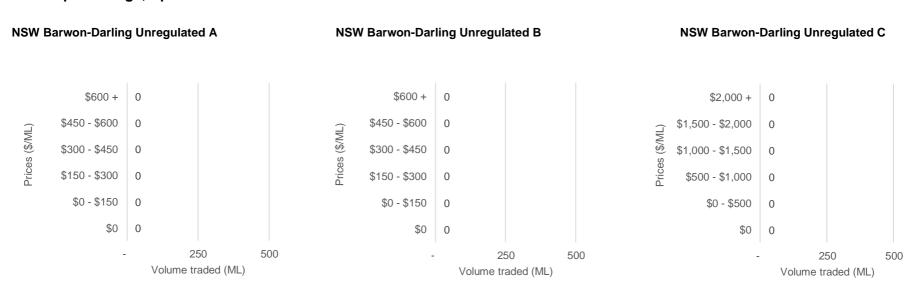
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

#### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval

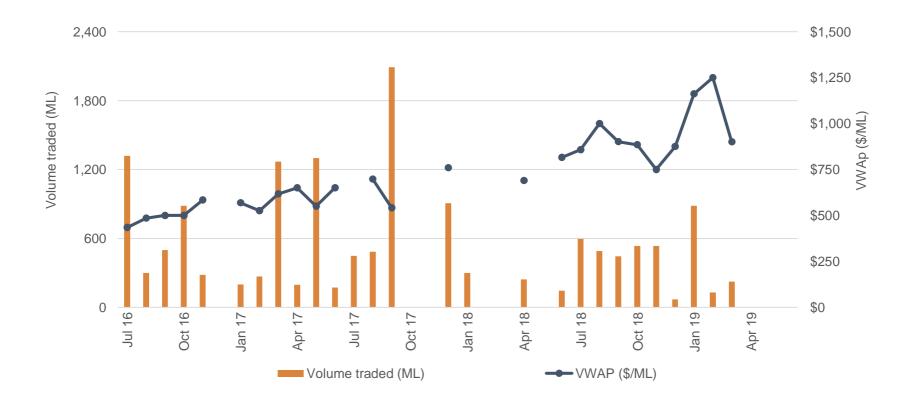
### **NSW Lachlan**

#### **Entitlement market overview, April 2019**

Entitlement type	VWAP (\$/ML) Apr 2018-19	VAP (\$/ML) Apr Max Price (\$/ML) trade 2018-19 Apr 2018-19 (unfiltered	Number of trades (unfiltered) Apr 2018-19	Volume of trade (unfiltered) (ML) Apr 2018-19	Average parcel size (ML) Apr 2018-19	Broker spread (Bid/Ask) \$/ML Apr 2018-19
NSW Lachlan GS	-	-	-	-	-	-

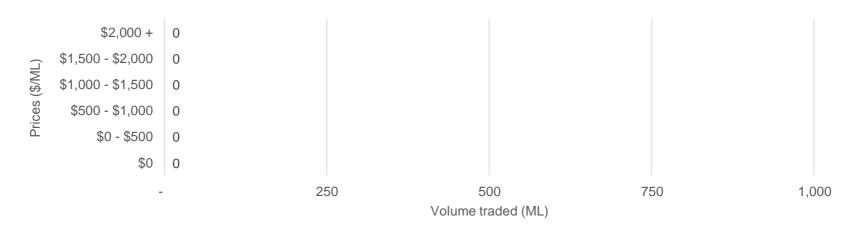
Source: Aither, 2019. Based on the NSW Water Register and quotes sourced from water brokers.

### Market prices and volumes, July 2016 to June 2019



Source: Aither, 2019. Based on the NSW Water Register.

### Market price range, April 2019



Source: Aither, 2019. Based on the NSW Water Register.

Note: Data labels are indicative of number of trades in each price bracket. Price bracket intervals do not include the upper bound price of the interval.

### **Queensland Entitlements**

#### **Entitlement Market Overview, March 2019**

Entitlement	March 2019 VWAP (\$/ML)	March 2019 Number of Trades	March 2019 Volume of trade (ML)	March 2019 Average Parcel Size (ML)
QLD Condamine-Balonne Supplemented	\$4,000	1	40	40
QLD Condamine-Balonne Overland flow	-	-	-	-
QLD Condamine-Balonne Unsupplemented	\$1,462	5	605	121
QLD Condamine-Balonne Groundwater Unsupplemented	-	-	-	-
QLD Border Rivers Supplemented	\$2,500	2	143	72
QLD Border Rivers Unsupplemented	\$1,948	8	9,319	1,165

Notes: Disaggregated entitlement trade data in QLD is not publicly available therefore Aither has been unable to provide data in the same format as SA, Vic and NSW entitlement types. QLD water trade data relates to trade in March 2019 as more recent trade data was unavailable at the time of publication. In instances where there has been more than one trade for a given month it has not been possible to determine a maximum price due to the nature of the data made available.

Note: All Queensland entitlements are denoted by "Water Plan (Water Management Area/Water Supply Scheme) entitlement type"

Source: Aither, 2019. Based on the QLD Water Register.

### **Notes**

VWAPs are based on estimates of commercial trades as outlined in Aither's methodology excluding \$0 values. Aither's methodology is available on request.

Only trades reported in April 2019 are included in the monthly Volume Weighted Average Price (VWAP) and Maximum Monthly Price (\$/ML) reported in the entitlement summary tables.

The 'Number of Transfers and 'Volume of Transfers' (ML) are calculated based on all trades from state water market registers, including \$0 value trades. This is in line with Aither's calculation methodology which is availabile on request.

The average parcel size reported in the entitlement summary tables has been determined by taking the total monthly volume of transfers and dividing by the total number of transfers of the given entitlement during the month in question.

As trade prices for NSW Murray GS within Murray Irrigation are not reported, Aither has used NSW Murray GS on river prices as a subsitute given the common characteristics that these entitlements share.

Aither's analysis was conducted on 6 May 2019 and only includes trade data available as of this date.

### **Document history**

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