



Managing groundwater extraction to limits - Presentation 2d

**Extraction patterns in the Greater Artesian Basin
Eastern Recharge groundwater source**

December 2020

We seek your input

The department must manage groundwater extraction to extraction limits defined in water sharing plans.

There are two methods available to reduce access if extraction by all water users exceeds the limit. These methods can be used separately or in combination.

We seek your comment on the method or combination of methods that best suits your area.



Presentation content

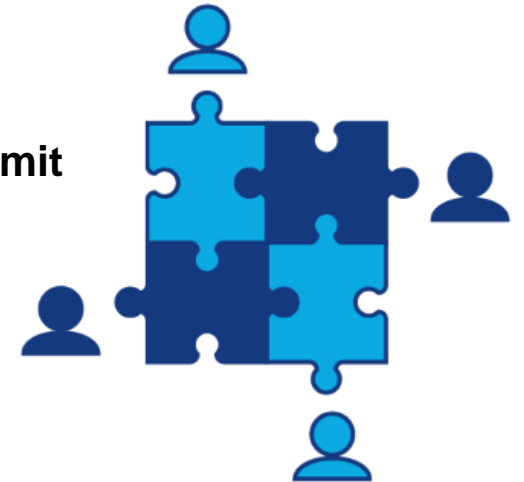
Presentation 1: Understanding extraction limits

Presentation 2d: Extraction patterns in the GAB Eastern Recharge groundwater source

Learn more about:

- the share profile
- the use profile
- how extractions compare to the long-term annual average extraction limit
- a new online dashboard

Presentations 3d: Exploring options to return extractions to limits if limits are exceeded



Share profile – GAB Eastern Recharge

Category of licence	Number of licences	Total
Aquifer access licence	80	34,974 unit shares
Domestic and stock access licence	1	32 ML/yr
Basic landholder rights		3,200 ML/yr
Native Title Rights		In accordance with native title determination for the Barkandji Traditional Owners #8 under the <i>Native Title Act 1993</i>

Water sharing rules – GAB Eastern Recharge

Maximum carry over – the maximum water allocation remaining in a water account that can be carried over from water year to the next water year

Domestic and stock	0
Aquifer	0.6 ML/unit share

Maximum water account debit – the maximum water allocation that can be taken or traded to another licence

Domestic and stock	Sum of allocations + allocation traded in
Aquifer	1.3 ML/unit share + allocation traded in

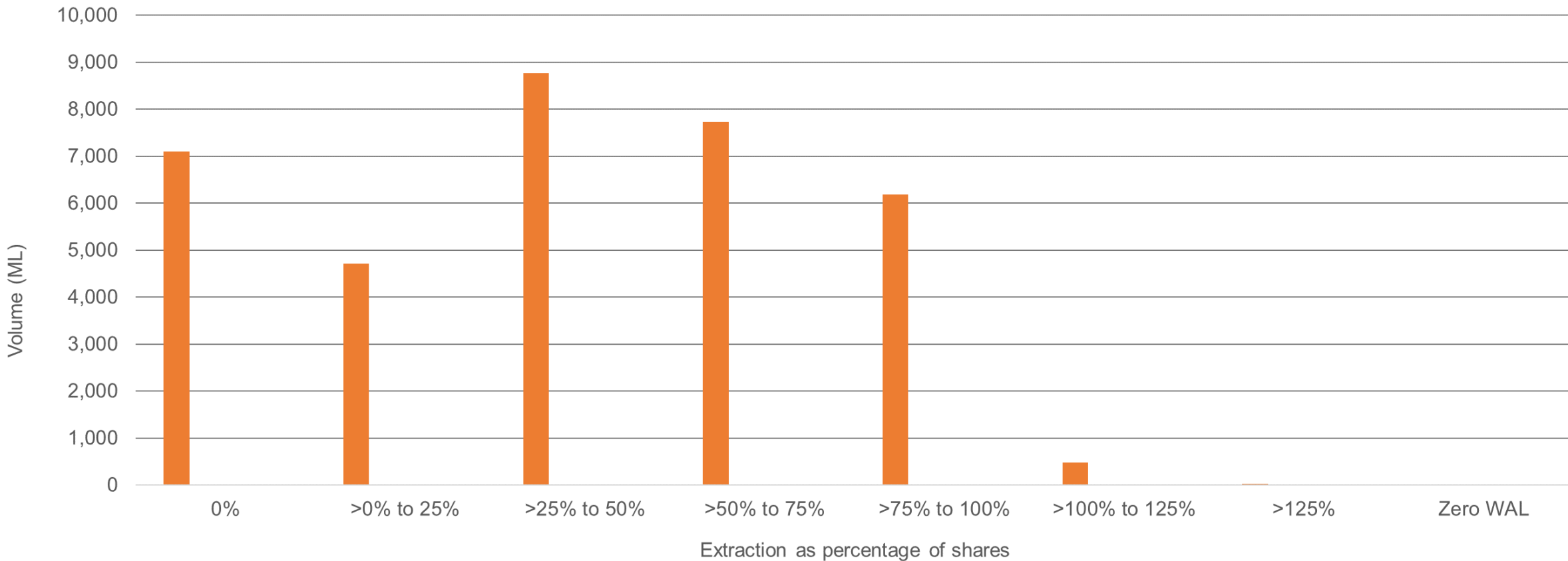
Limits and triggers

Long-term average annual extraction limit	16,200 ML/yr
Compliance trigger (extraction limit + 10%)	17,820 ML/yr

Share profile – GAB Eastern Recharge

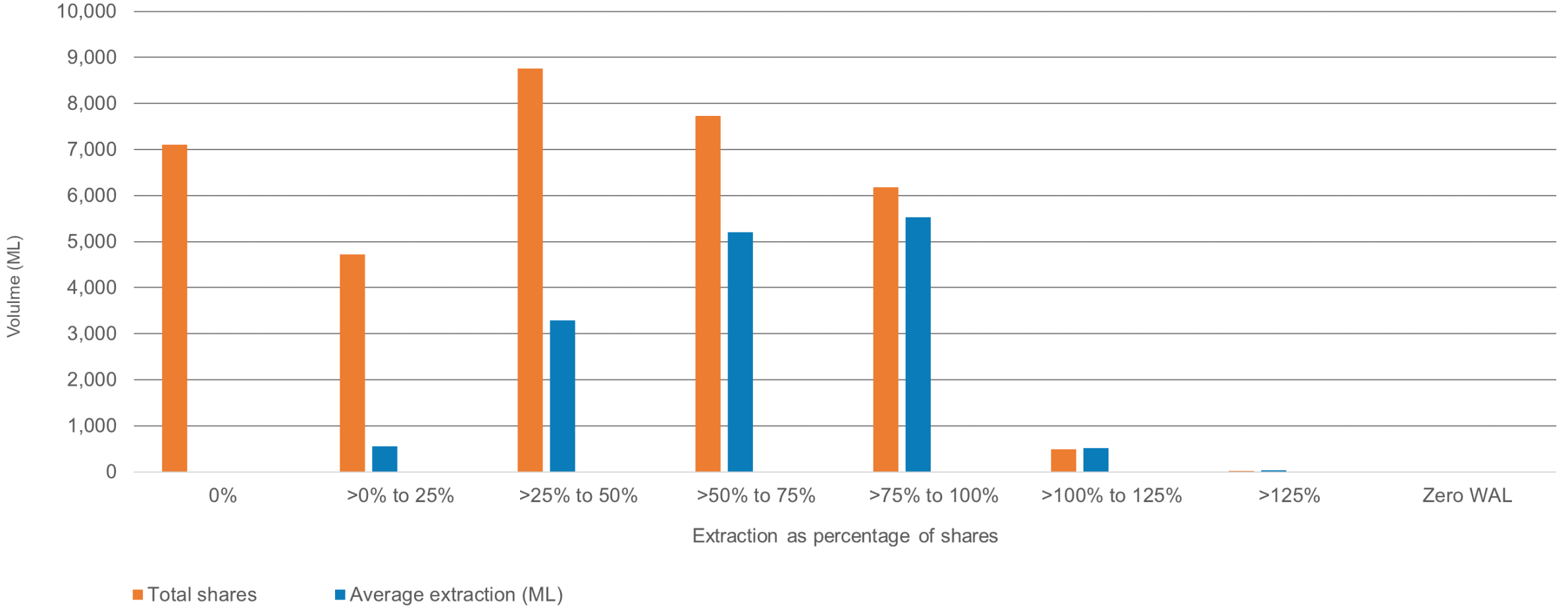
Extraction as percentage of shares	Number of Accounts	Total shares	Average extraction (ML)	Average volume (ML) traded INTO accounts	Average volume (ML) traded OUT of accounts
0%	26	7,104	0	21	1,076
>0% to 25%	13	4,718	556	255	528
>25% to 50%	15	8,760	3,289	40	251
>50% to 75%	9	7,733	5,210	602	220
>75% to 100%	14	6,182	5,533	1,094	0
>100%	2	509	558	213	4
Zero WAL	2	0	0	0	126*

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)

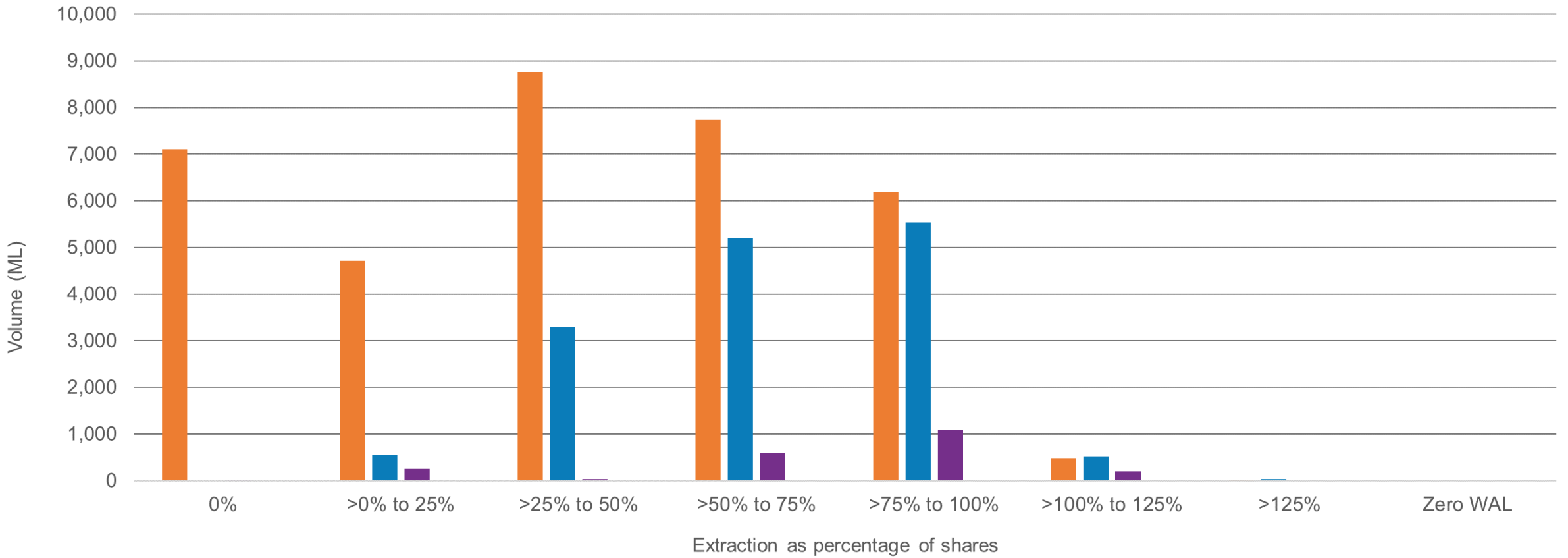


■ Total shares

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)

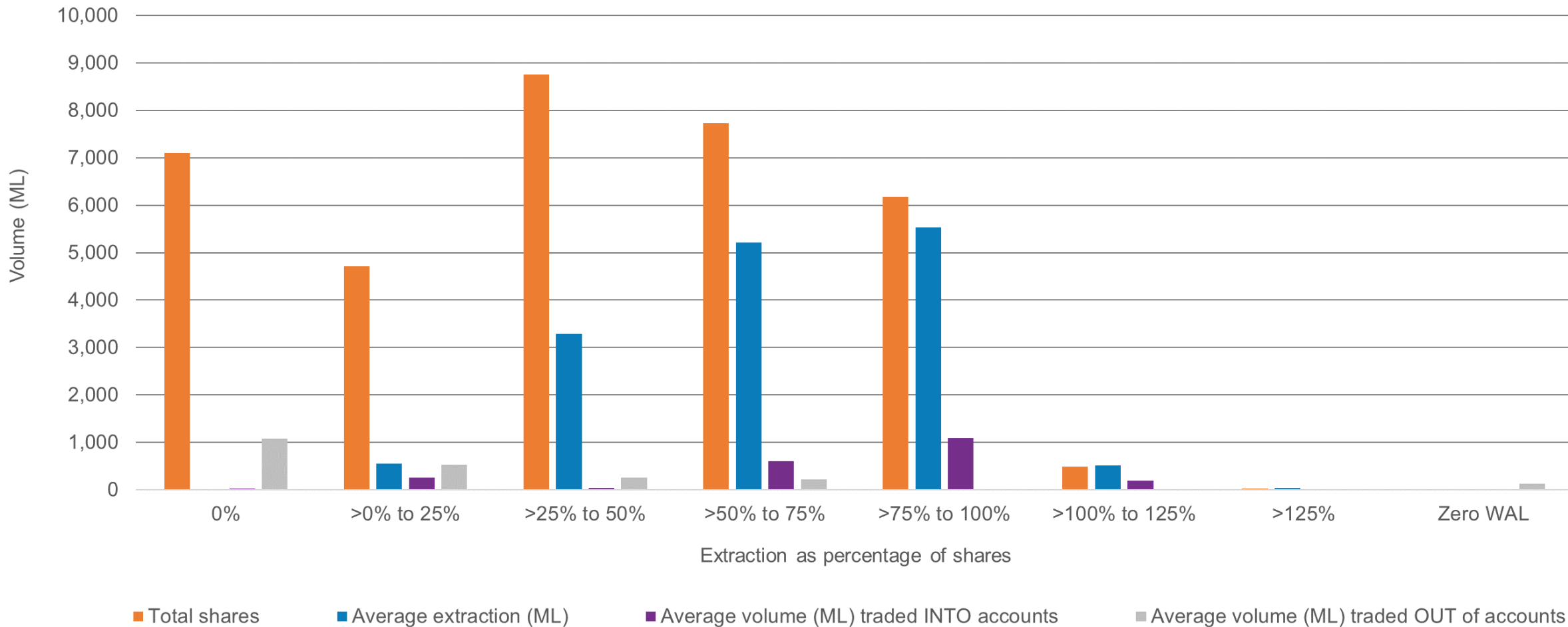


Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)

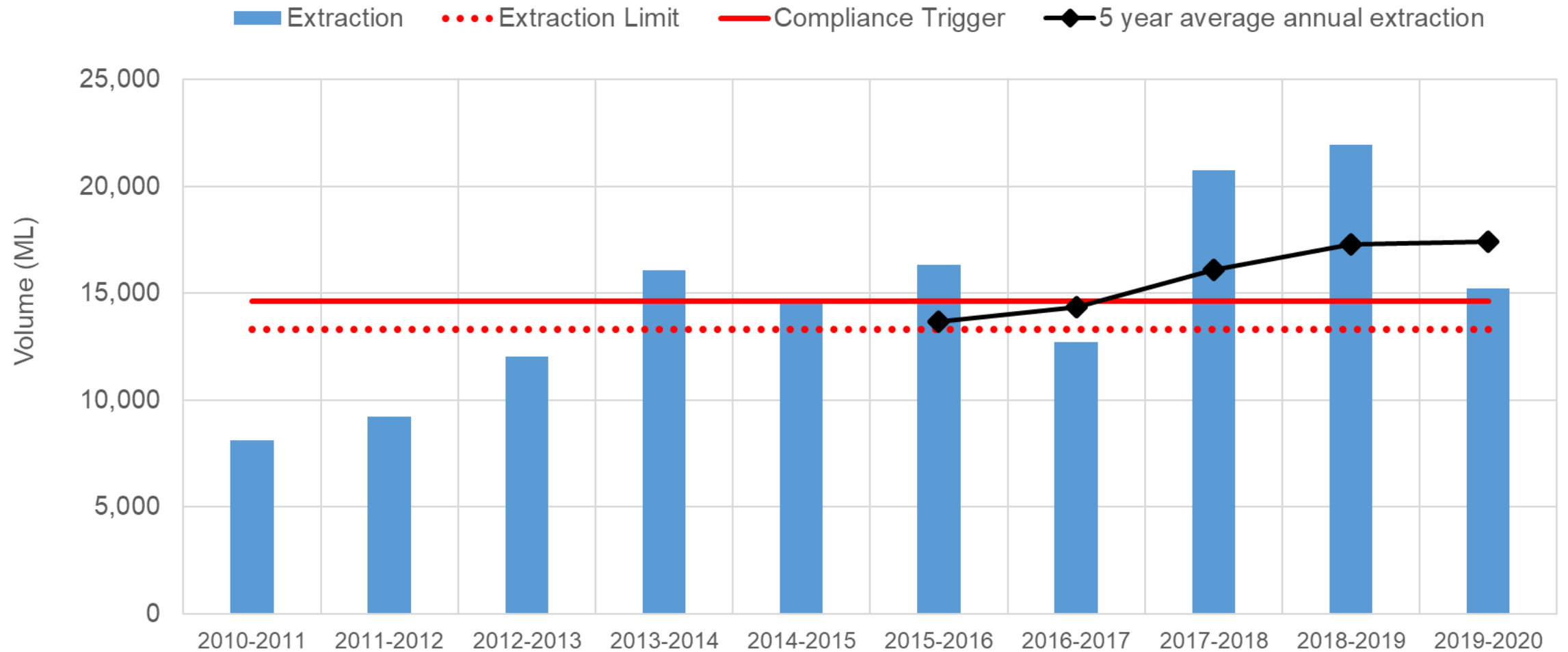


■ Total shares ■ Average extraction (ML) ■ Average volume (ML) traded INTO accounts

Average extraction and trade over last 5 years (ie 2015-16 to 2019-20)




Extraction Vs. limits – GAB Eastern Recharge



Online dashboard

- Dashboard launched December 2020
- Access on our website at <https://www.dpie.nsw.gov.au/managing-access-to-groundwater>





Planning, Industry & Environment

Status of Groundwater Extraction

EASTERN RECHARGE GROUNDWATER SOURCE

Select an inland groundwater source here:
EASTERN RECHARGE GROUNDWATER SOURCE Last updated: 14/12/2020

All groundwater sharing plans have rules to manage extraction in a water source to its long-term average annual extraction limit.

Access to groundwater in the **EASTERN RECHARGE GROUNDWATER SOURCE** may be reduced if average extraction over the previous **5 years** is more than **110%** of the extraction limit (known as the compliance trigger). Note: ML=Megalitres

2020-2021 Water Year

Volume available in water accounts (ML)	Volume that if extracted will reach the compliance trigger (in ML, calculated annually)	Volume remaining to be extracted before reaching the compliance trigger (in ML, calculated throughout the year)
19,277	5,658	1,629

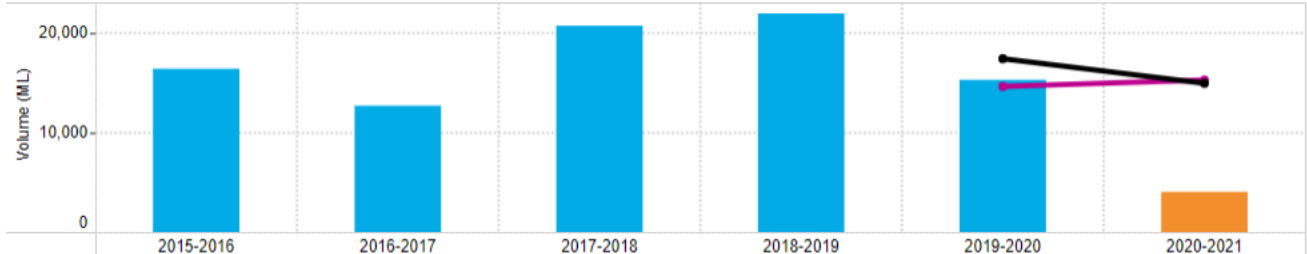
Likelihood of compliance being triggered in the 2020-2021 Water Year:

HIGH

Extraction compared to the compliance trigger over time:

This graph shows yearly and average extraction over five years and compares them to the compliance trigger. If the 5 year average extraction goes above the compliance trigger, then access to groundwater may be reduced in the next water year.

■ Total Yearly Extraction ■ Current Extraction to date ■ Average extraction ■ Compliance Trigger



The **2020-2021** water year is still open and only reflects the extraction to date (including basic land holder rights (BLR)). The current year extraction data comes from BLR estimates, meter reads and unverified IWAS entries.

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The End

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