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## Water consumption and usage – May 2022

*Responsible Officer: Group Manager Operations (Adam Nesbitt)*

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### Recommendation

That Council receive and note the report.

### Background

The table below is the May 2022 bulk water sales to the constituent councils in kilolitres compared to the corresponding May sales for 2021 and 2020.

<b>Council</b>	<b>May 2020 (kL)</b>	<b>May 2021 (kL)</b>	<b>May 2022 (kL)</b>	<b>% of Total Sales</b>
Ballina Shire Council	271,394	297,070	284,140	39.09%
Byron Shire Council	168,707	187,394	171,100	23.54%
Lismore City Council	240,329	241,395	232,026	31.92%
Richmond Valley Council	42,270	44,392	39,627	5.45%
<b>TOTAL MONTHLY CONSUMPTION BY CONSTITUENT COUNCILS</b>	<b>722,700</b>	<b>770,251</b>	<b>726,893</b>	

## Water usage - all constituent councils

Figure 1 shows the combined monthly bulk water consumption and rainfall at Rocky Creek Dam for the previous two years.

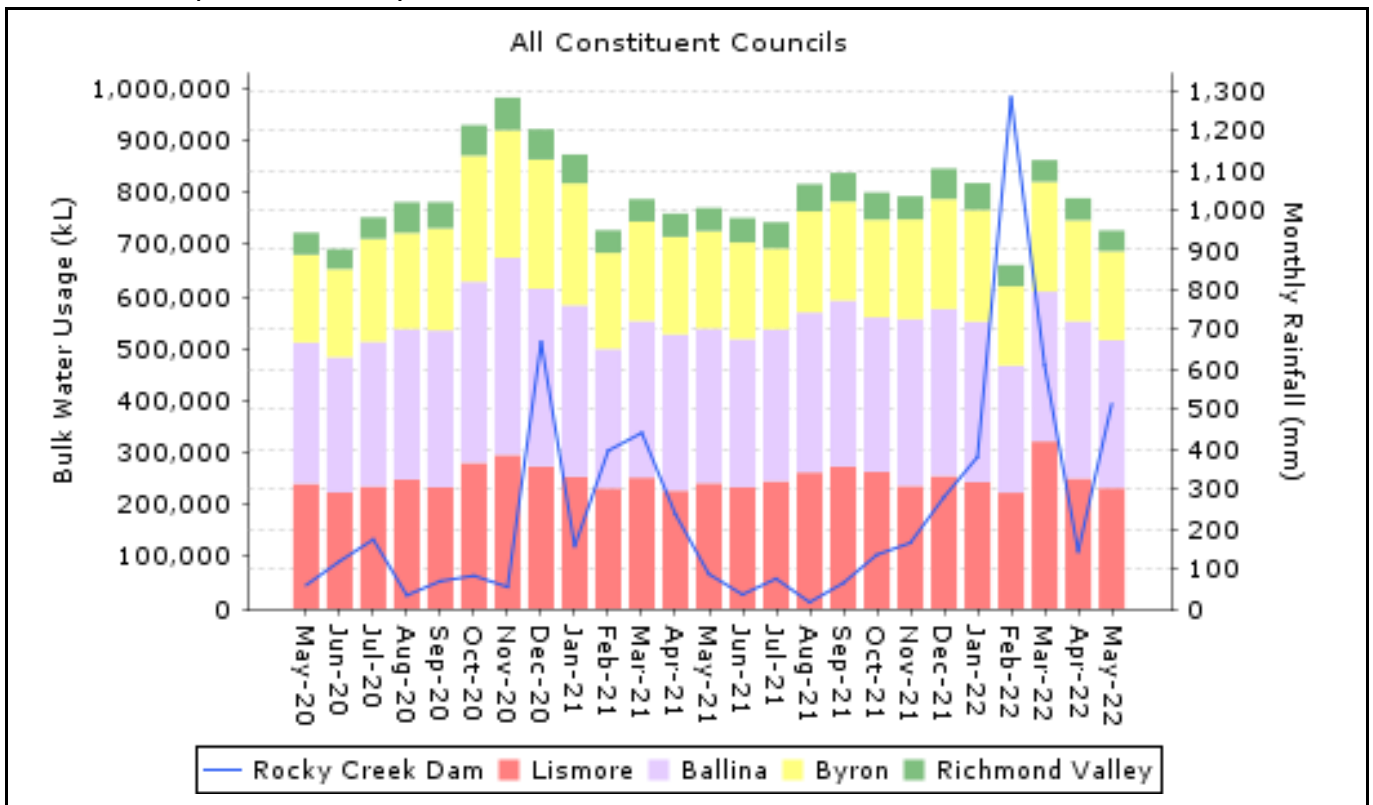


Figure 1: Total monthly consumption by constituent council and rainfall.

Figure 2 shows the total bulk water sales for the financial year to date compared with the previous two years.

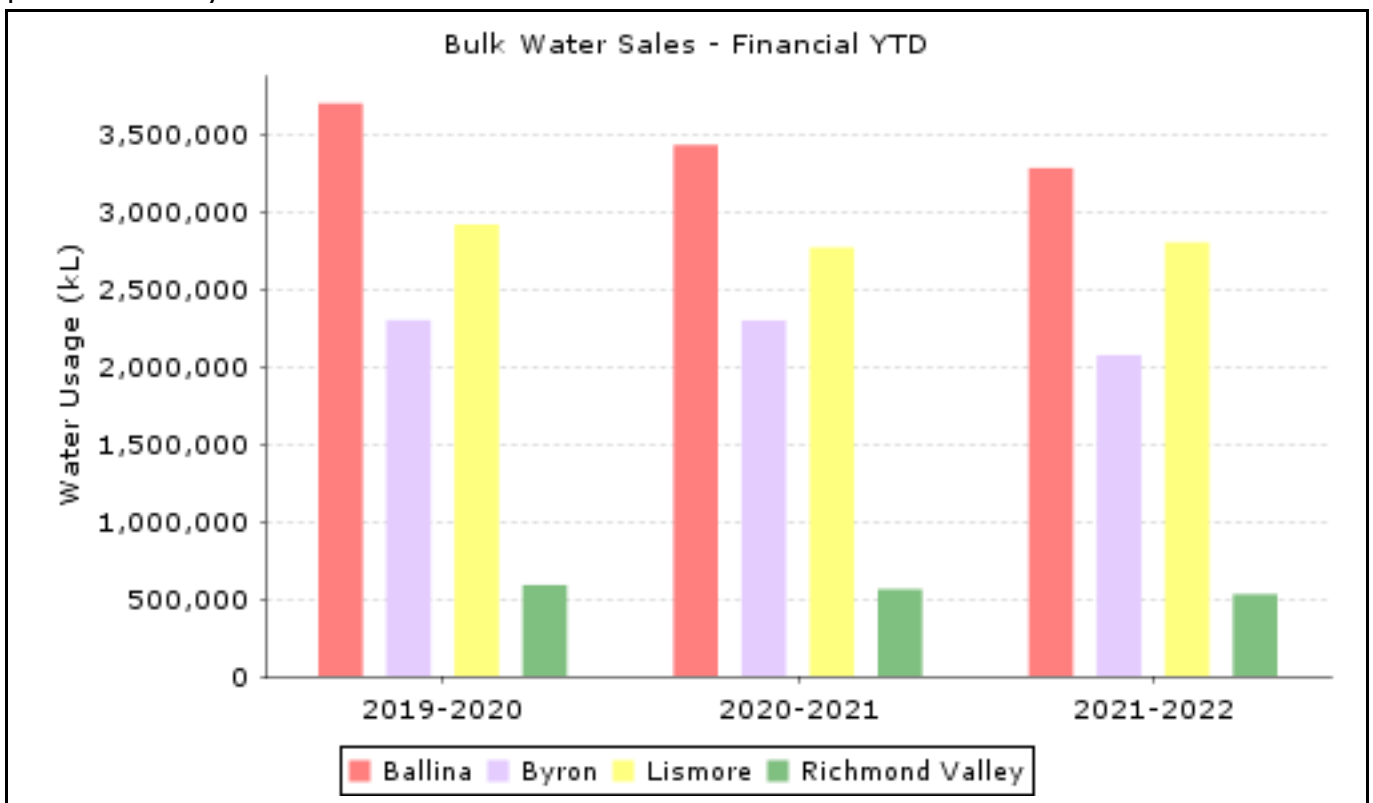


Figure 2: Bulk water sales by constituent council - 1 July to 31 May

Figure 3 and 4 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

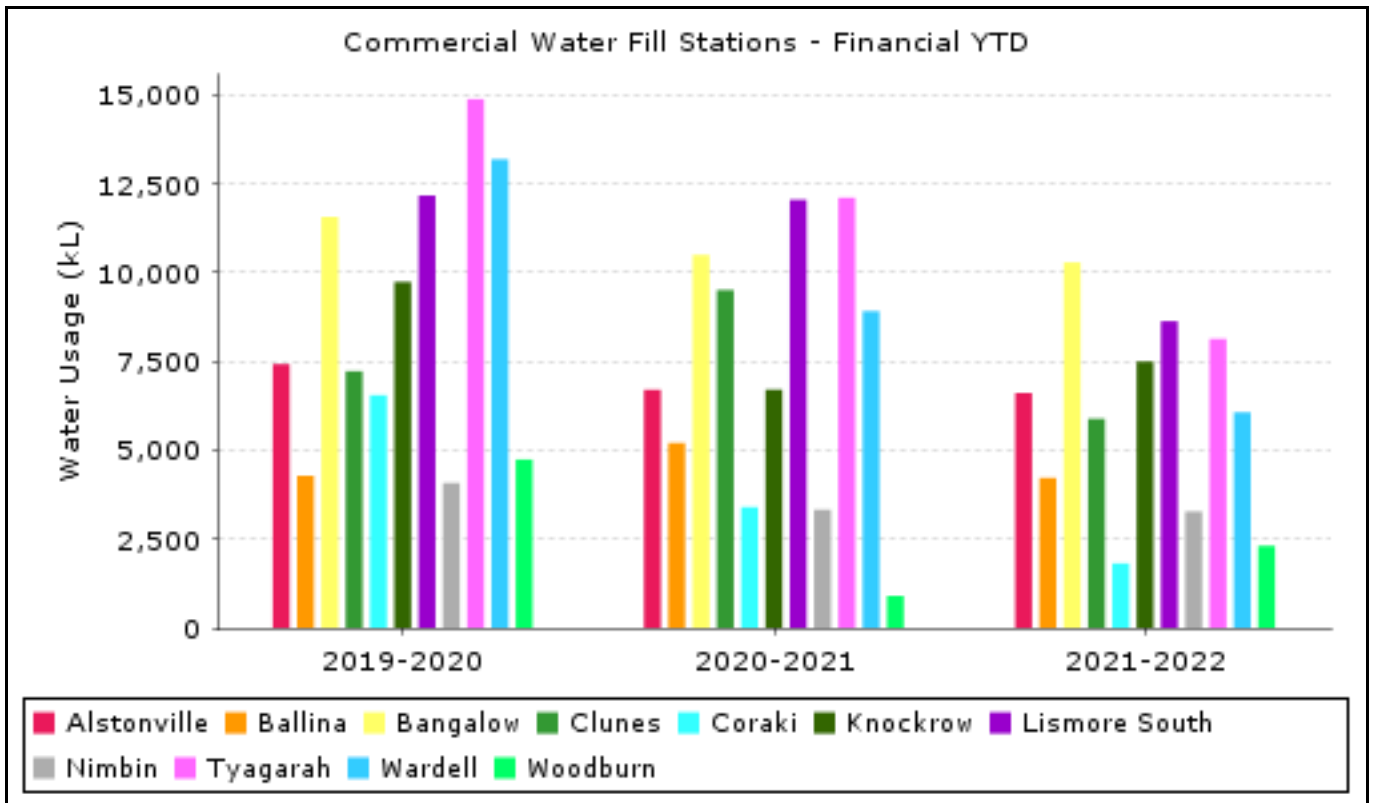


Figure 3: Comparison of commercial water fill stations total consumption - 1 July to 31 May

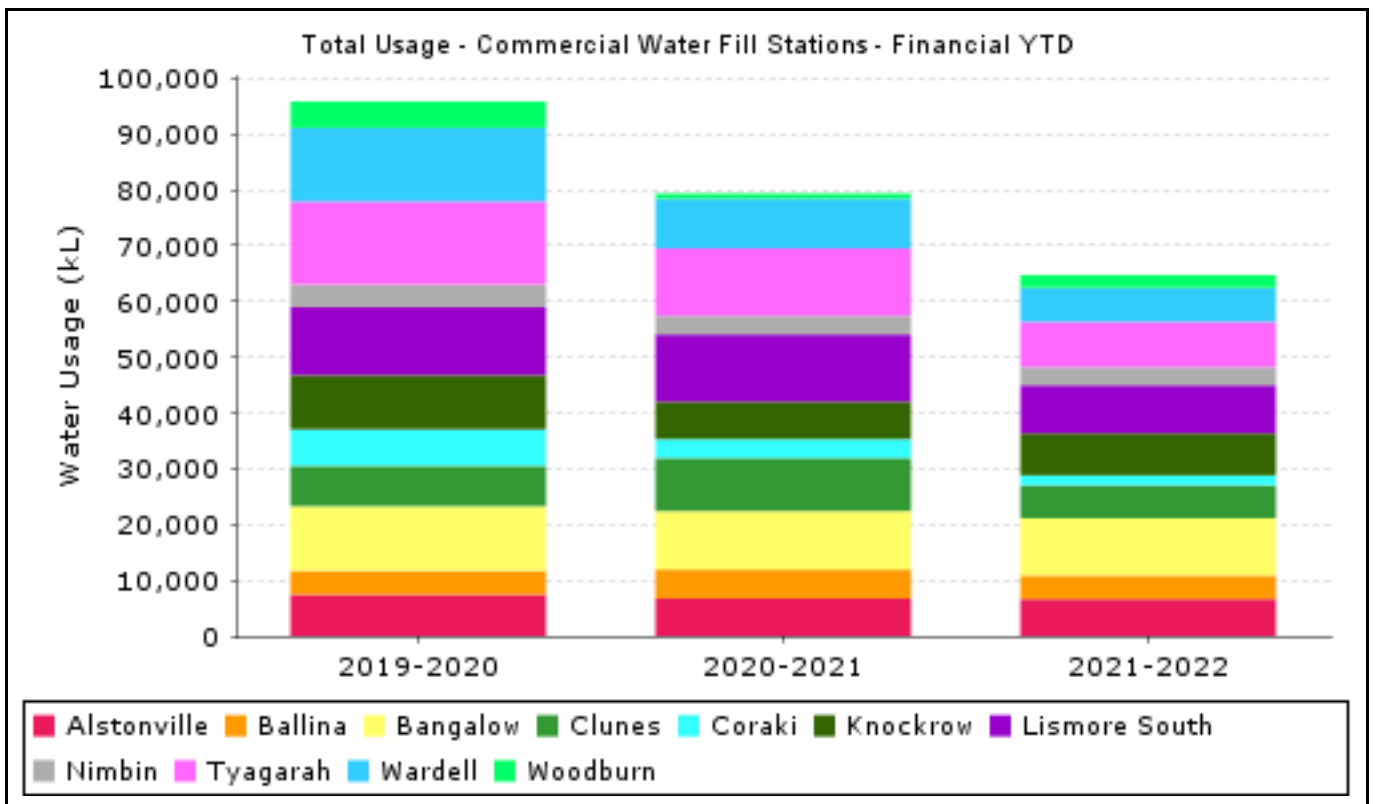


Figure 4: Total usage of commercial water fill stations - 1 July to 31 May

Figure 5 shows the combined water fill station monthly consumption for the previous two years. Rainfall data is from the rain gauge at Rocky Creek Dam.

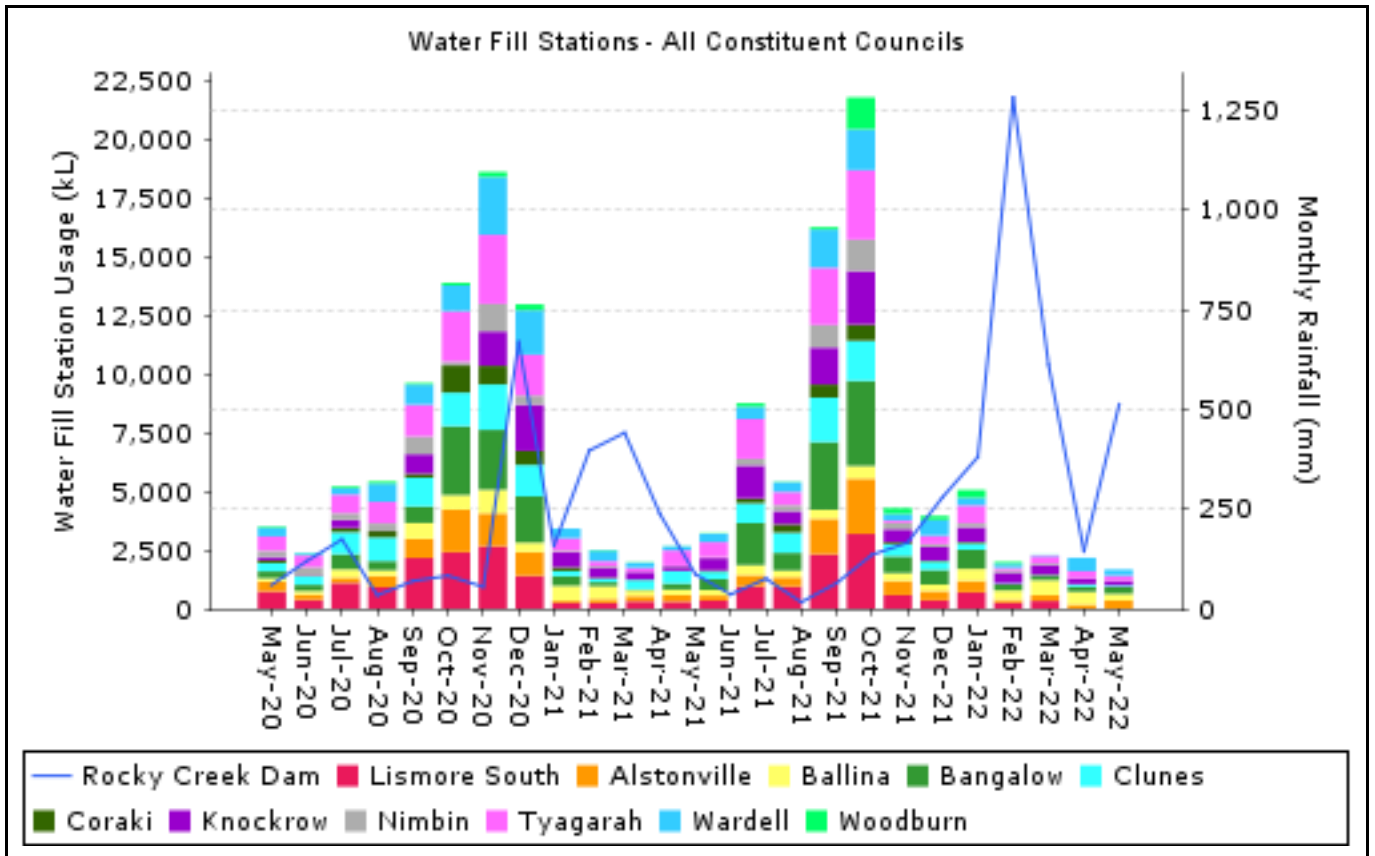


Figure 5: Total monthly consumption for commercial water fill stations and rainfall.

### Source contribution

Rocky Creek Dam capacity as of 31 May 2022 was 100.9%

Emigrant Creek Dam capacity as of 31 May 2022 was 103.4%

Source	May 2022 (kL)		Cumulative total 2021-2022 (kL)	
	Usage	Capacity %	Total Usage	Total Capacity %
Rocky Creek Dam	844,584	100.00%	8,282,463	83.97%
Wilson River	1	0.00%	1,042,559	10.57%
Emigrant Creek Dam	2	0.00%	538,053	5.46%
Alstonville Plateau Bores	0	0.00%	167	0.00%
Coastal Sands	0	0.00%	0	0.00%
	<b>844,587</b>		<b>9,863,242</b>	

## Rocky Creek Dam

Figure 6 shows Rocky Creek dam current water level and compares to previous years when levels reached lowest recorded dam level. Rainfall data is for the current financial year only.

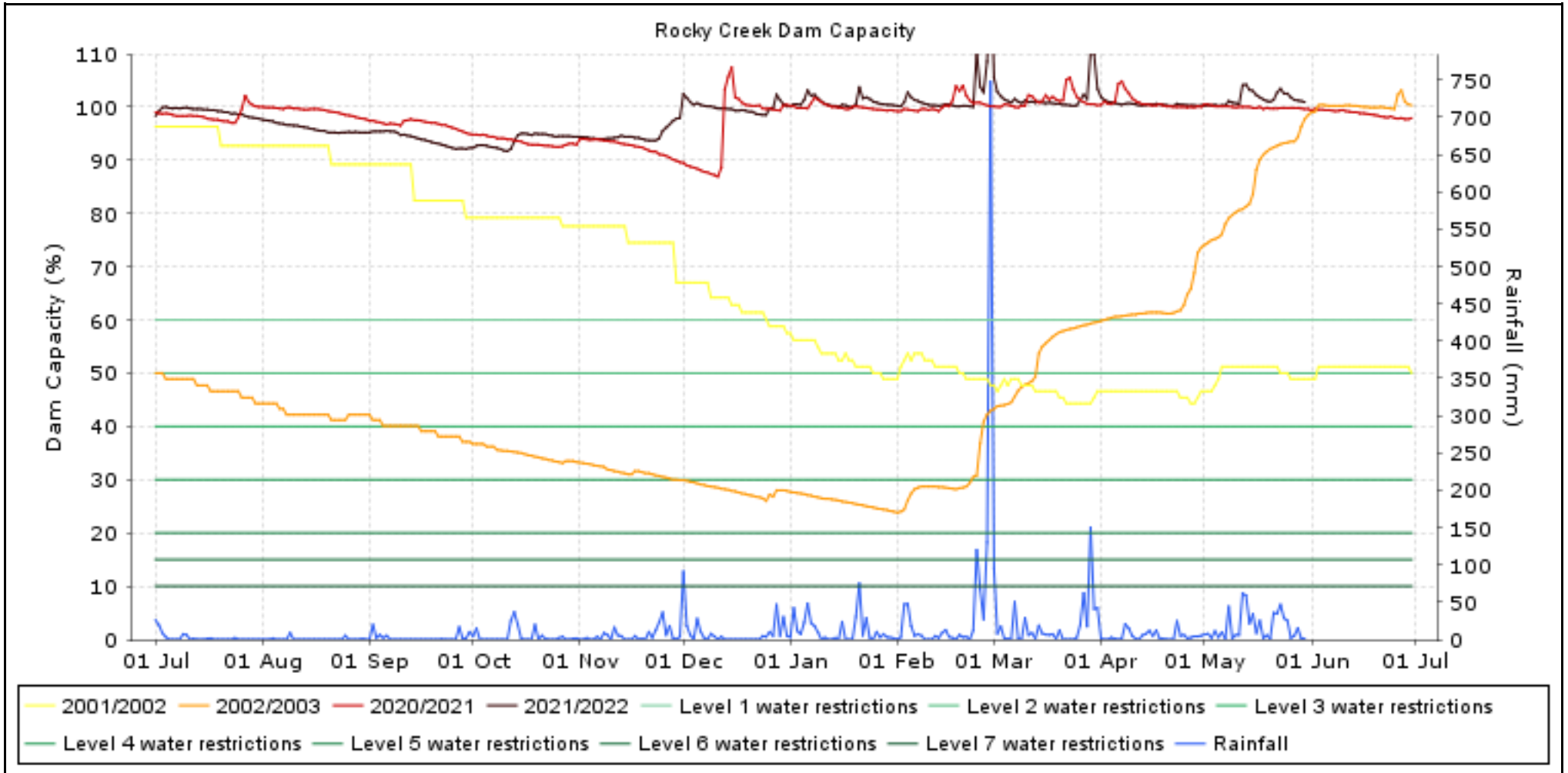


Figure 6: Rocky Creek Dam capacity and rainfall

## Emigrant Creek Dam

Figure 7 shows Emigrant Creek dam current water level and compares to previous two years. Rainfall data is for the current financial year only.

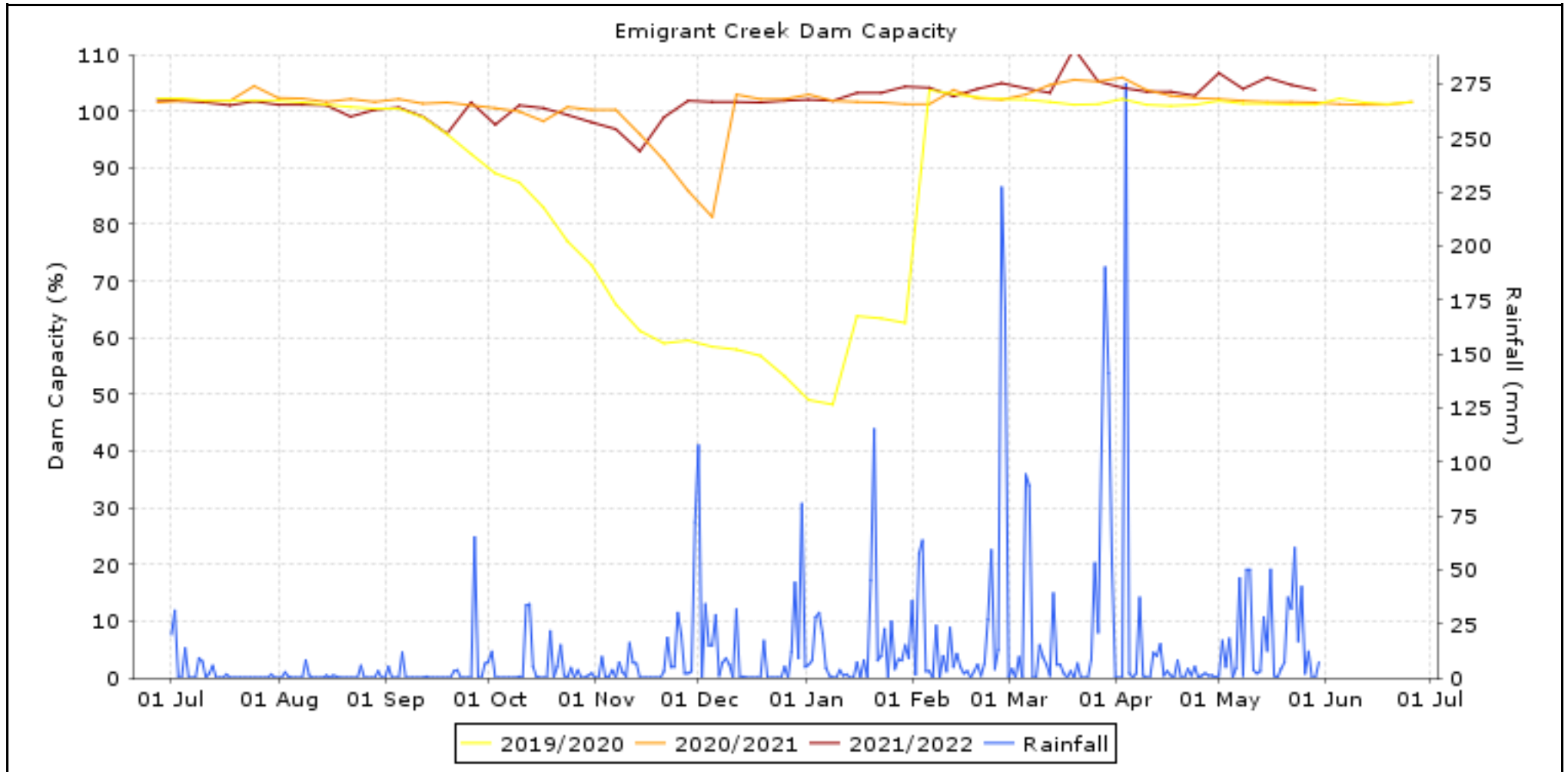


Figure 7: Emigrant Creek Dam capacity and rainfall

## Monthly consumption by constituents - Ballina Council

Figure 8 shows the monthly consumption for Ballina Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Ballina Airport.

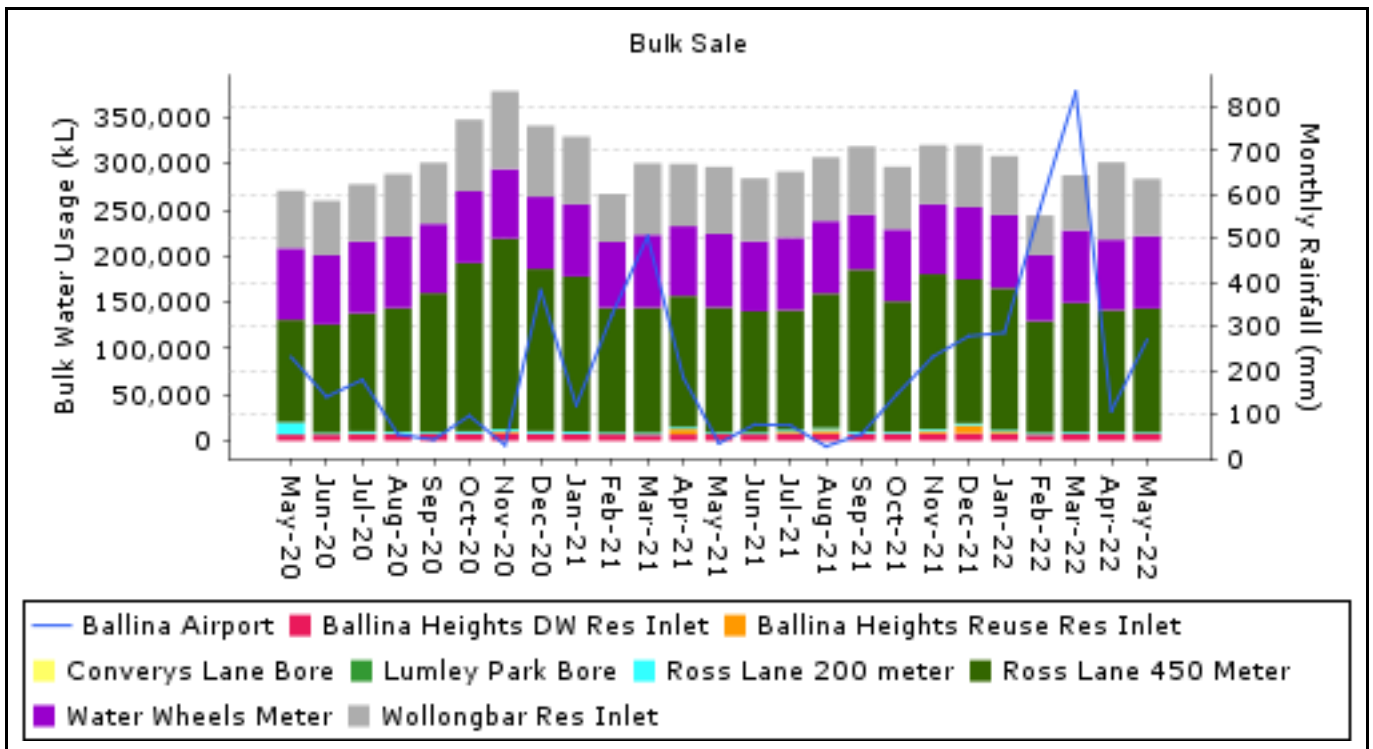


Figure 8: Monthly consumption and rainfall - Ballina City Council.

Figure 9 shows the monthly consumption for water fill stations for Ballina Shire Council and the rainfall for the previous two years.

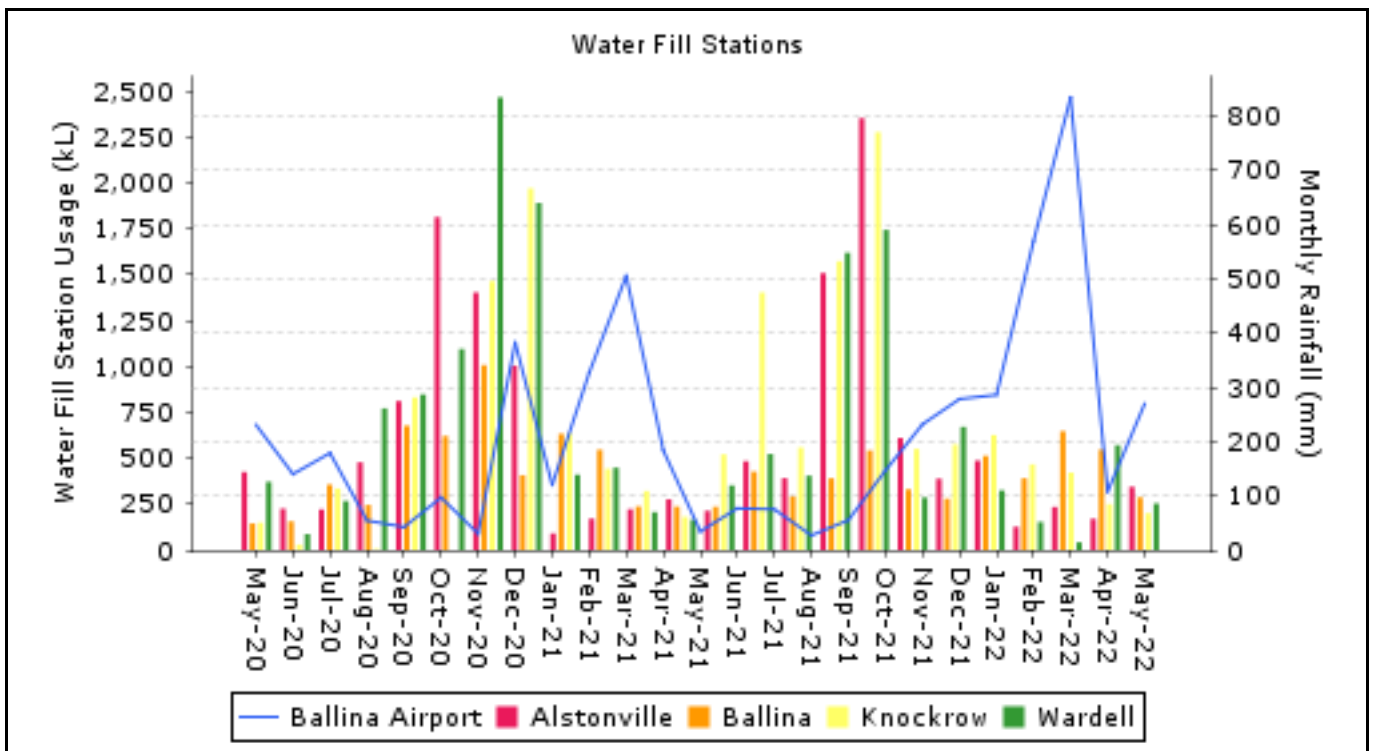


Figure 9: Monthly consumption commercial water fill station and rainfall.

Figure 10 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

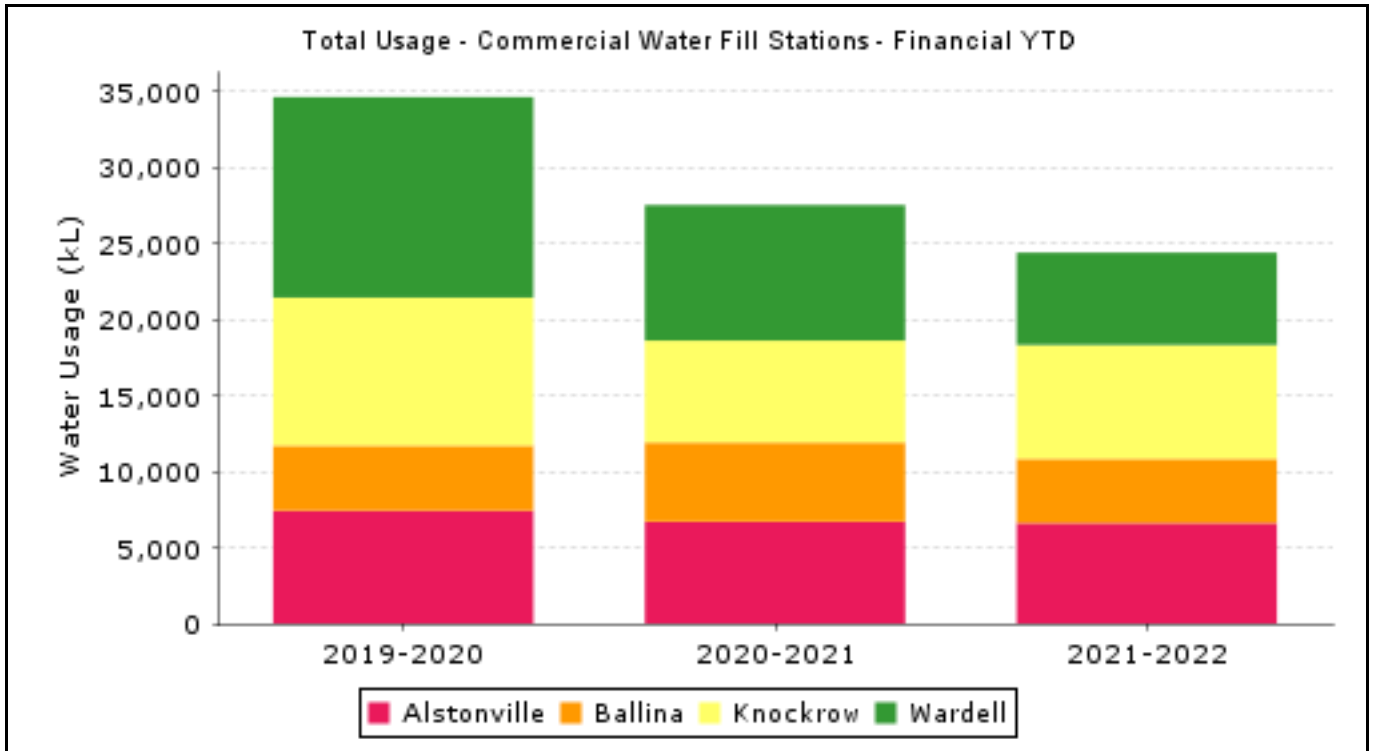


Figure 10: Total usage of commercial water fill stations. 1 July to 31 May



### Monthly consumption by constituents - Byron Council

Figure 11 shows the monthly consumption for Byron Shire Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Cape Byron.

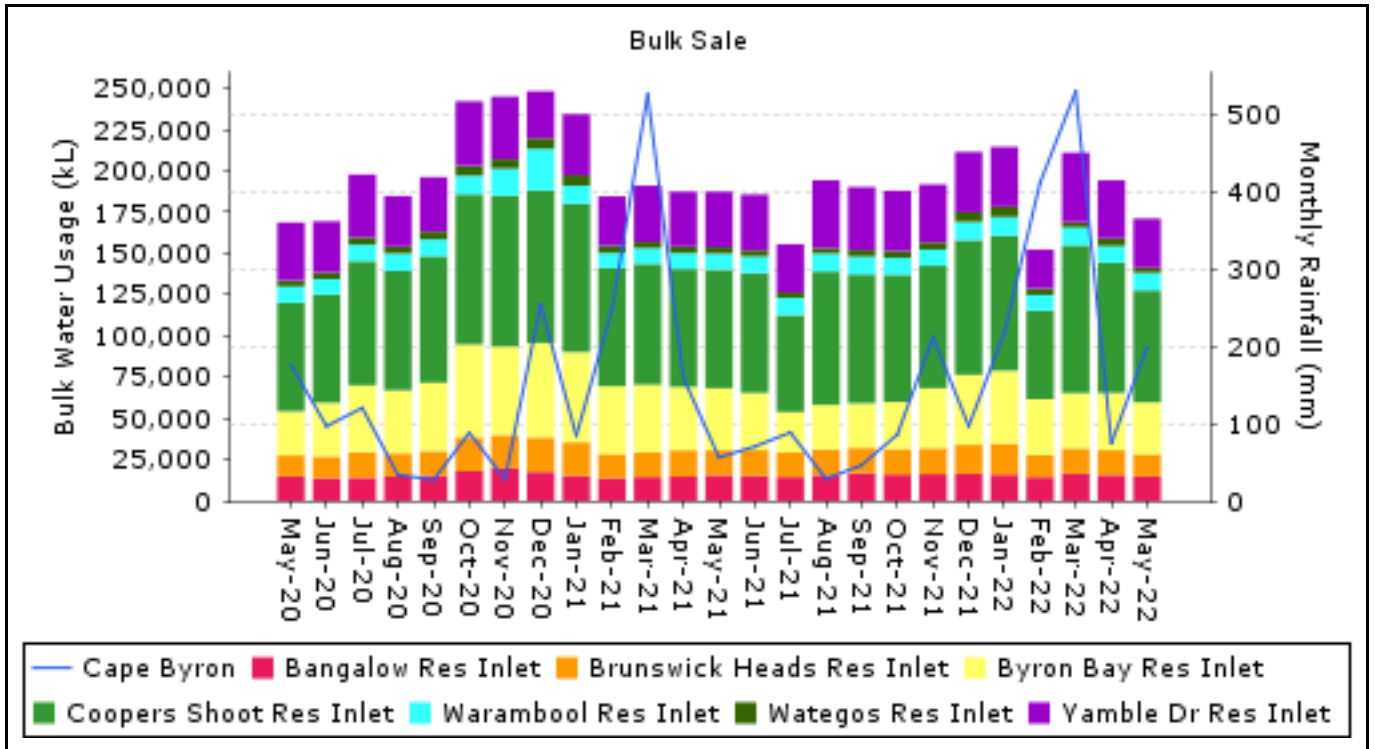


Figure 11: Monthly consumption and rainfall - Byron City Council.

Figure 12 shows the monthly consumption for water fill stations for Byron Shire Council and the rainfall for the previous two years.

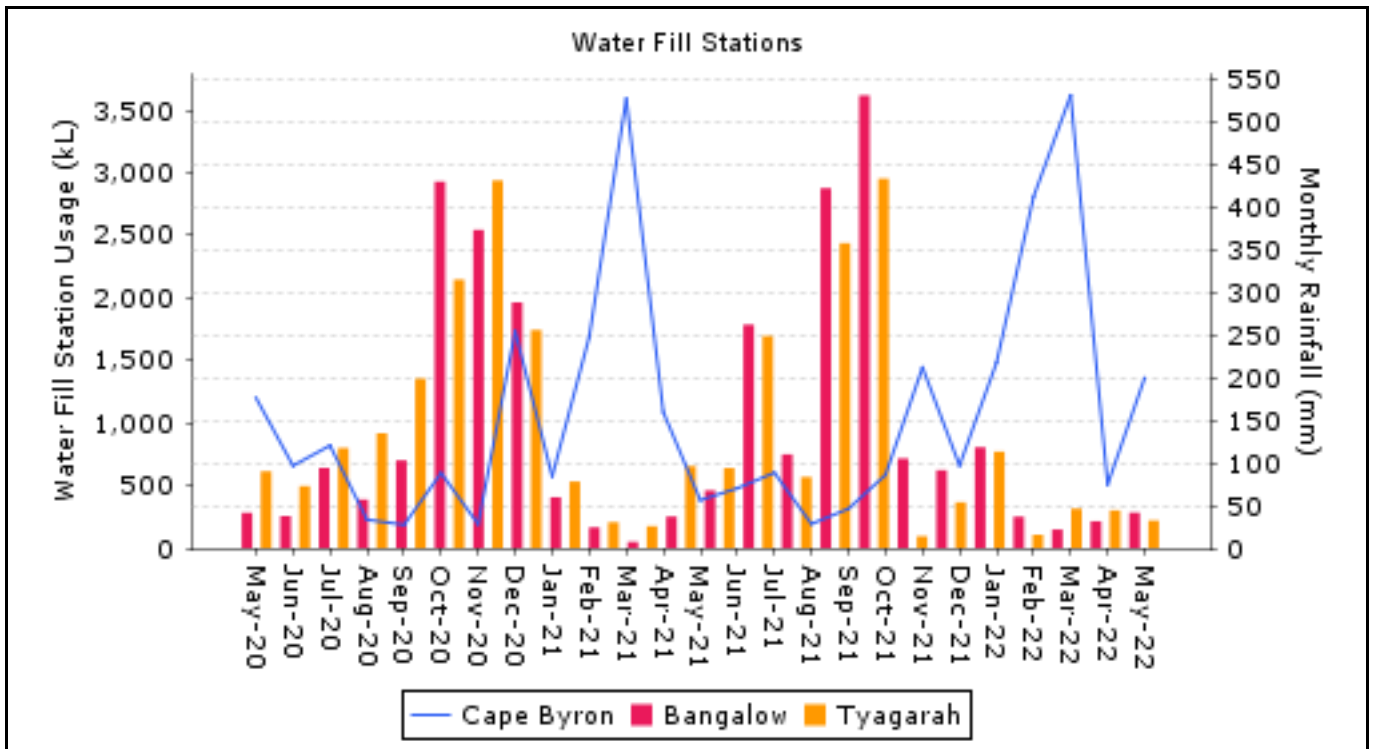


Figure 12: Monthly consumption commercial water fill station and rainfall.

Figure 13 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

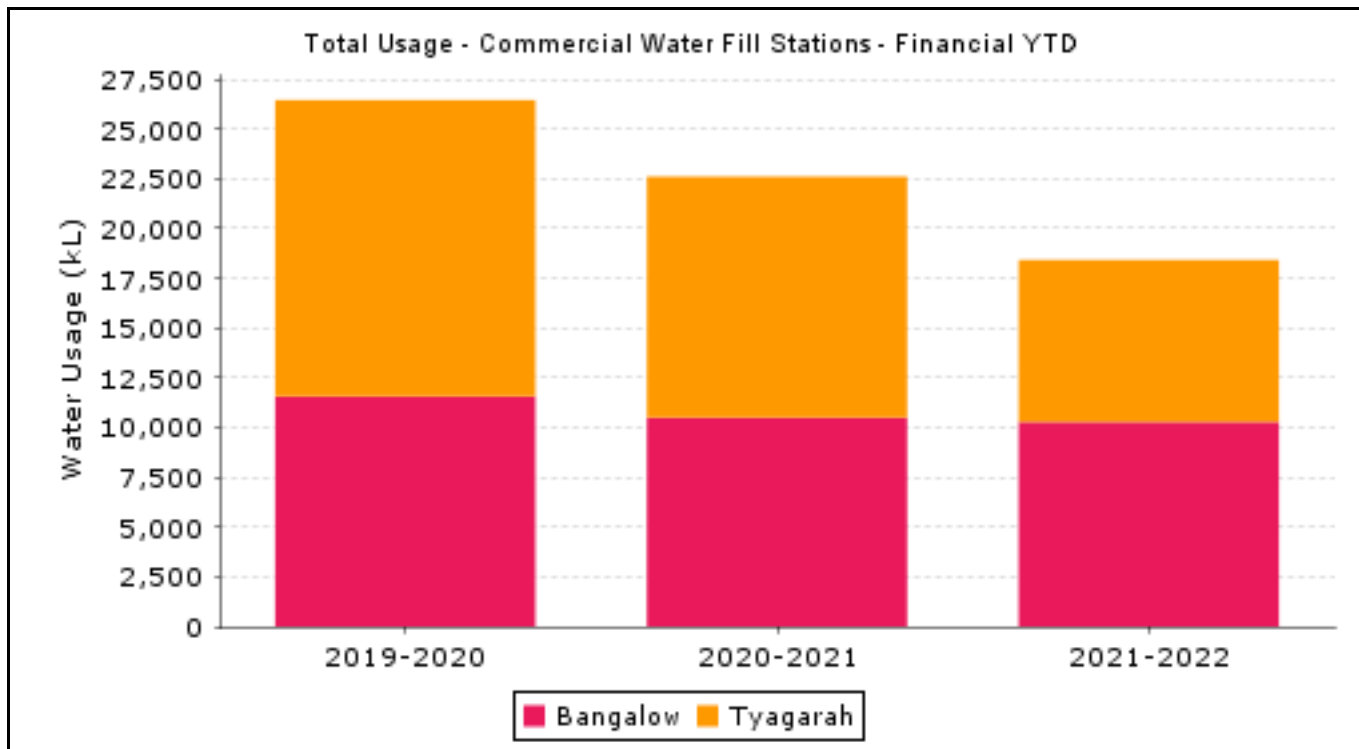


Figure 13: Total usage of commercial water fill stations. 1 July to 31 May

## Monthly consumption by constituents - Lismore Council

Figure 14 shows the monthly consumption for Lismore City Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Lismore Airport.

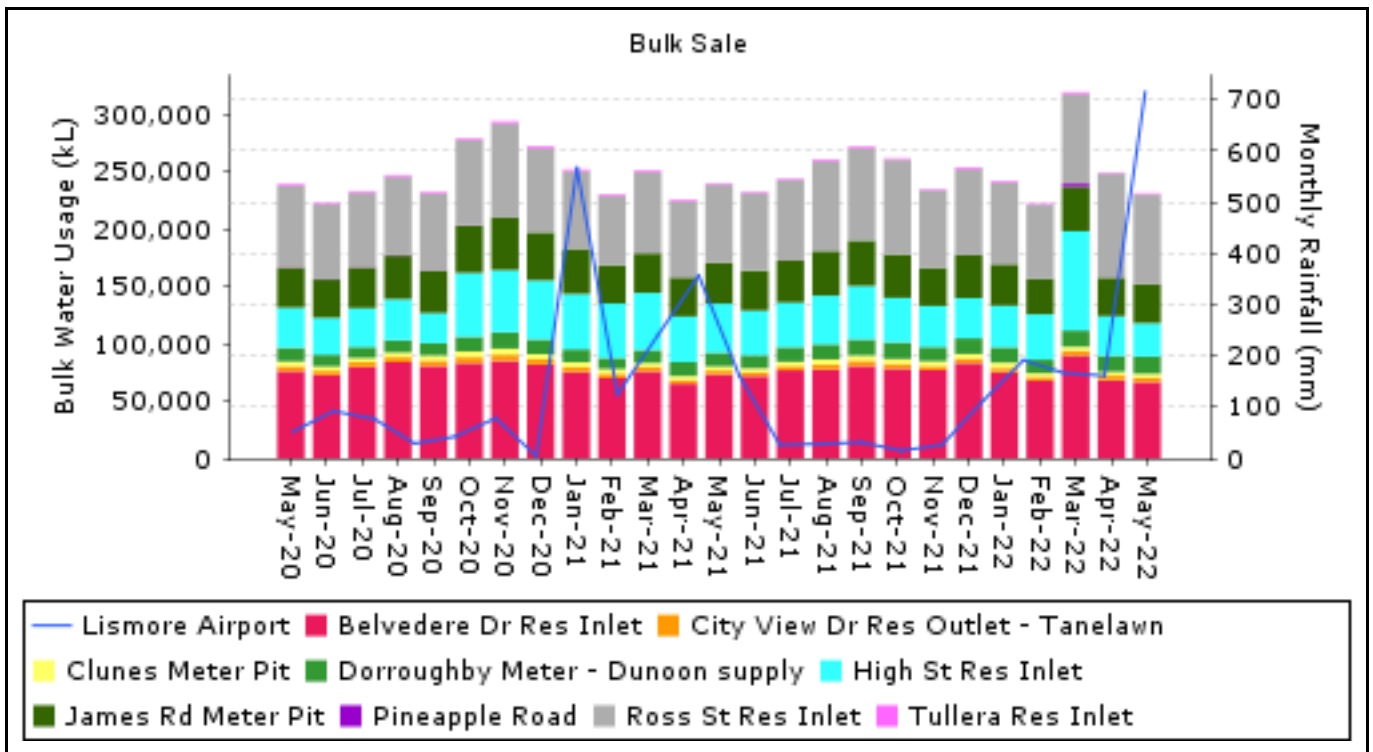


Figure 14: Monthly consumption and rainfall - Lismore City Council.

Figure 15 shows the monthly consumption for water fill stations for Lismore City Council and the rainfall for the previous two years.

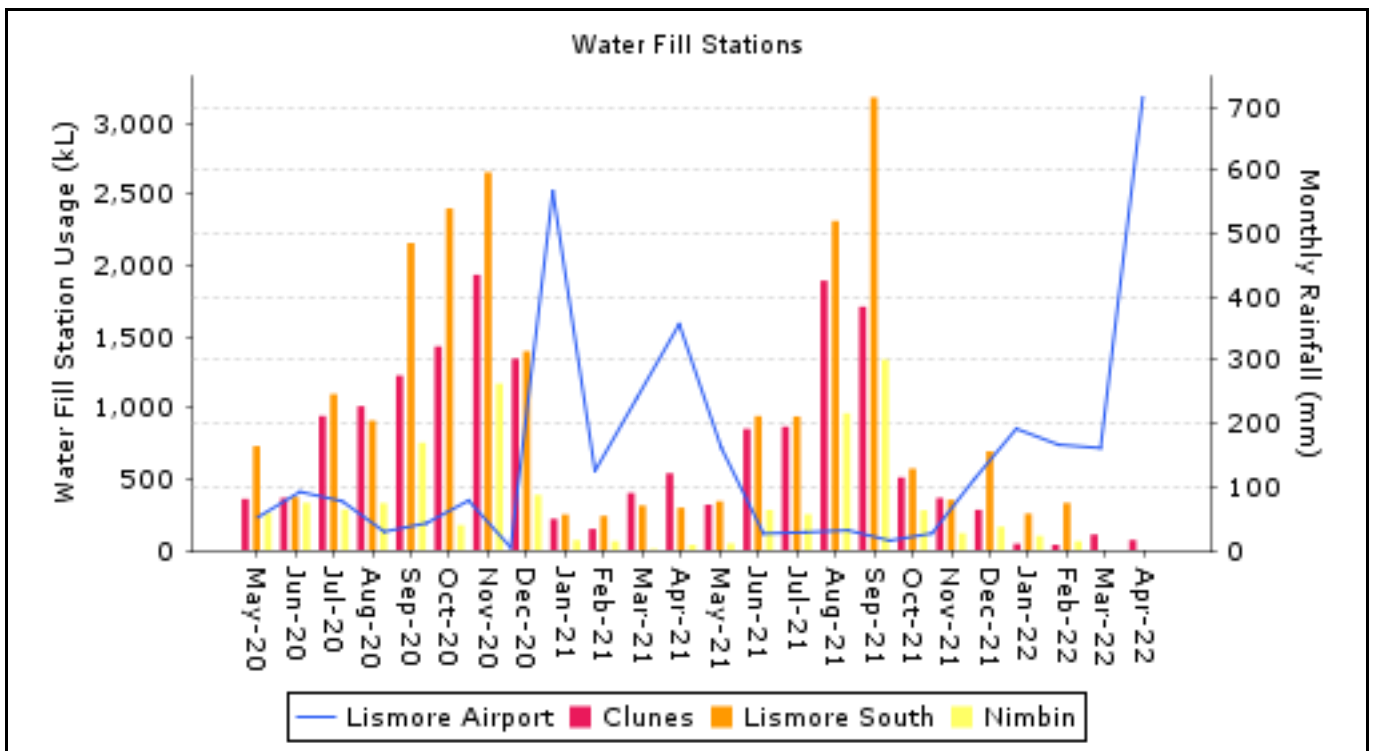


Figure 15: Monthly consumption commercial water fill station and rainfall.

Figure 16 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

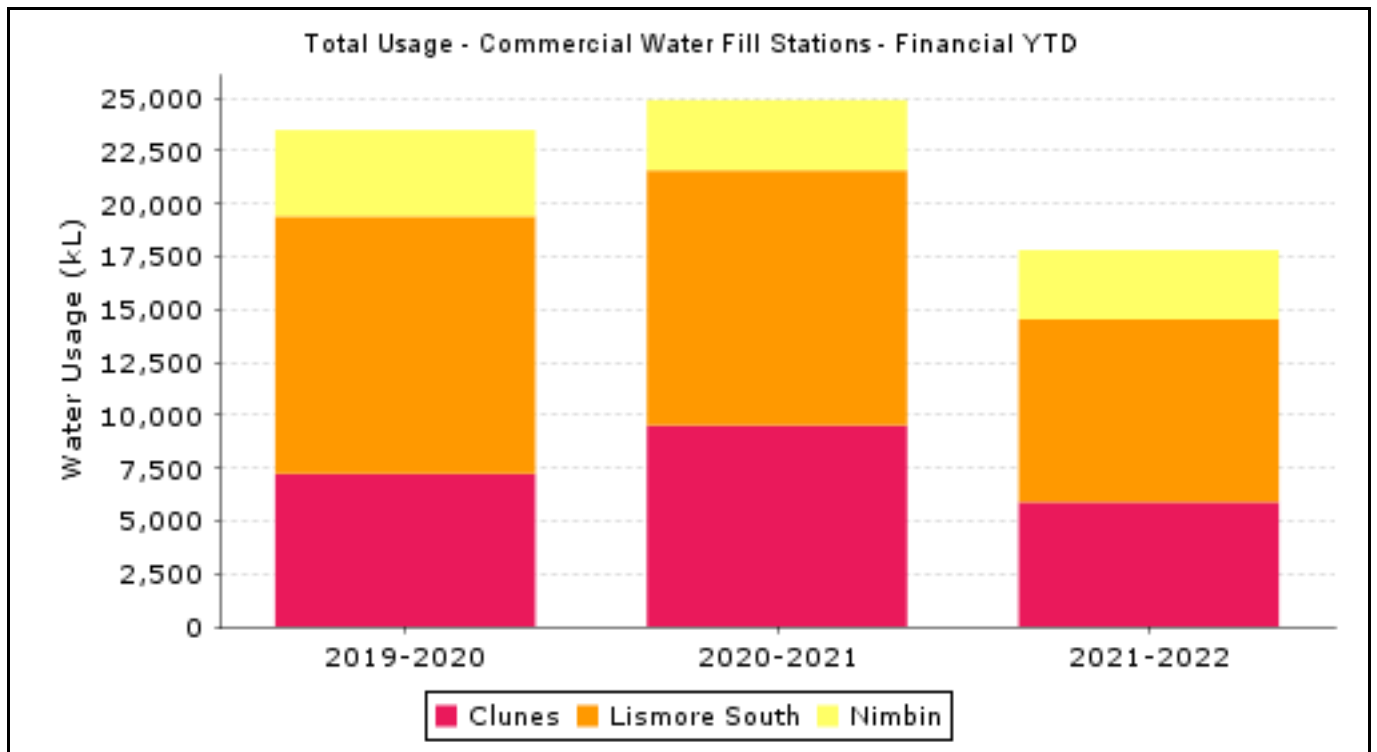


Figure 16: Total usage of commercial water fill stations. 1 July to 31 May

## Monthly consumption by constituents - Richmond Valley Council

Figure 17 shows the monthly consumption for Richmond Valley Council area for the previous two years. Rainfall data is from the Bureau of Meteorology rainfall station Evans Head.

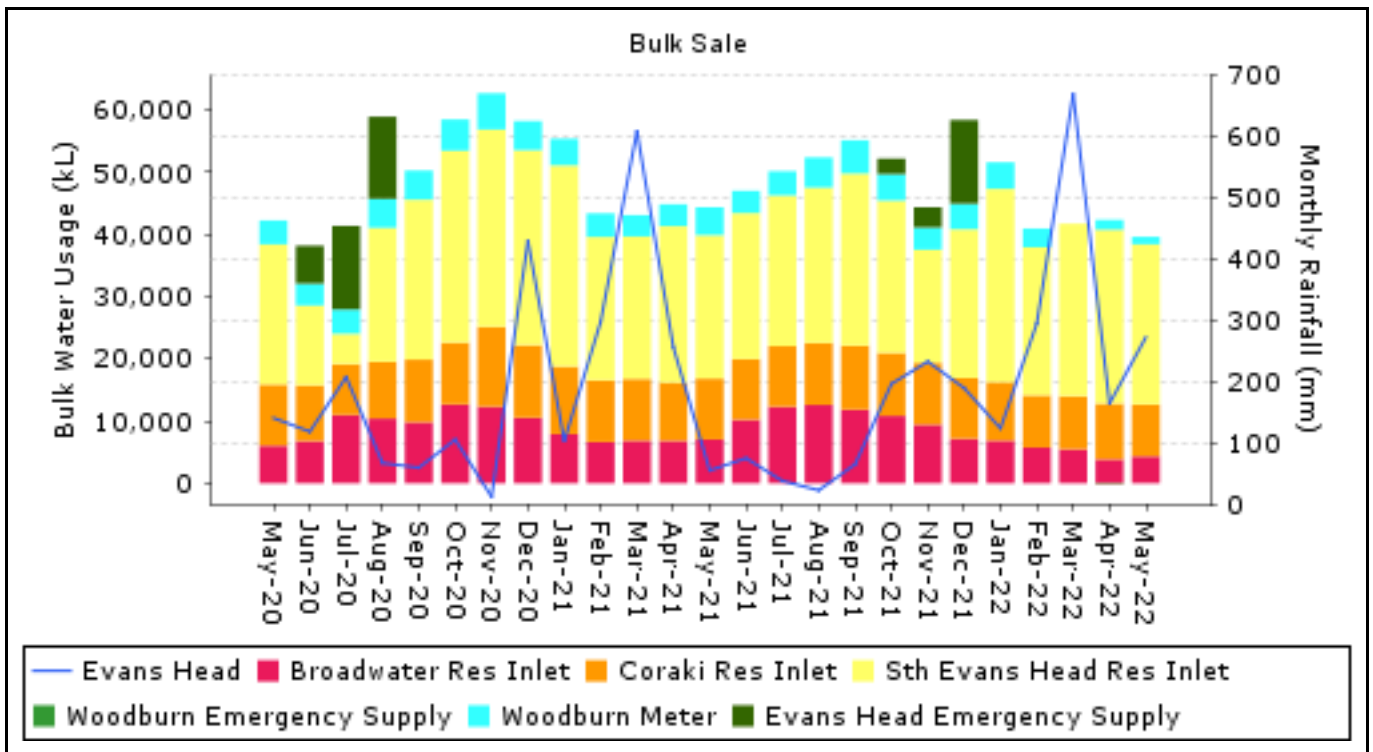


Figure 17: Monthly consumption and rainfall - Richmond Valley City Council.

Figure 18 shows the monthly consumption for water fill stations for Richmond Valley Council and the rainfall for the previous two years.

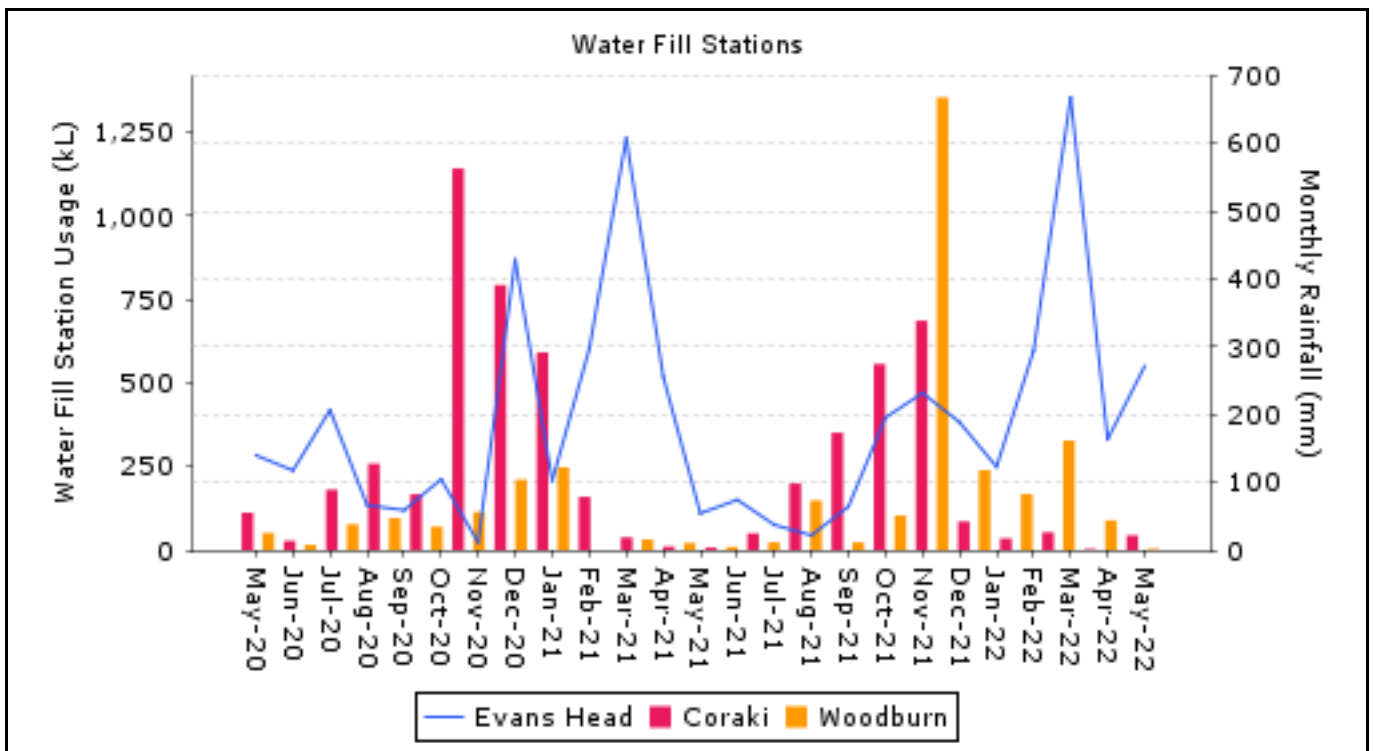


Figure 18: Monthly consumption commercial water fill station and rainfall.

Figure 19 shows the total usage of individual commercial water fill stations for the financial year to date compared with the previous two years.

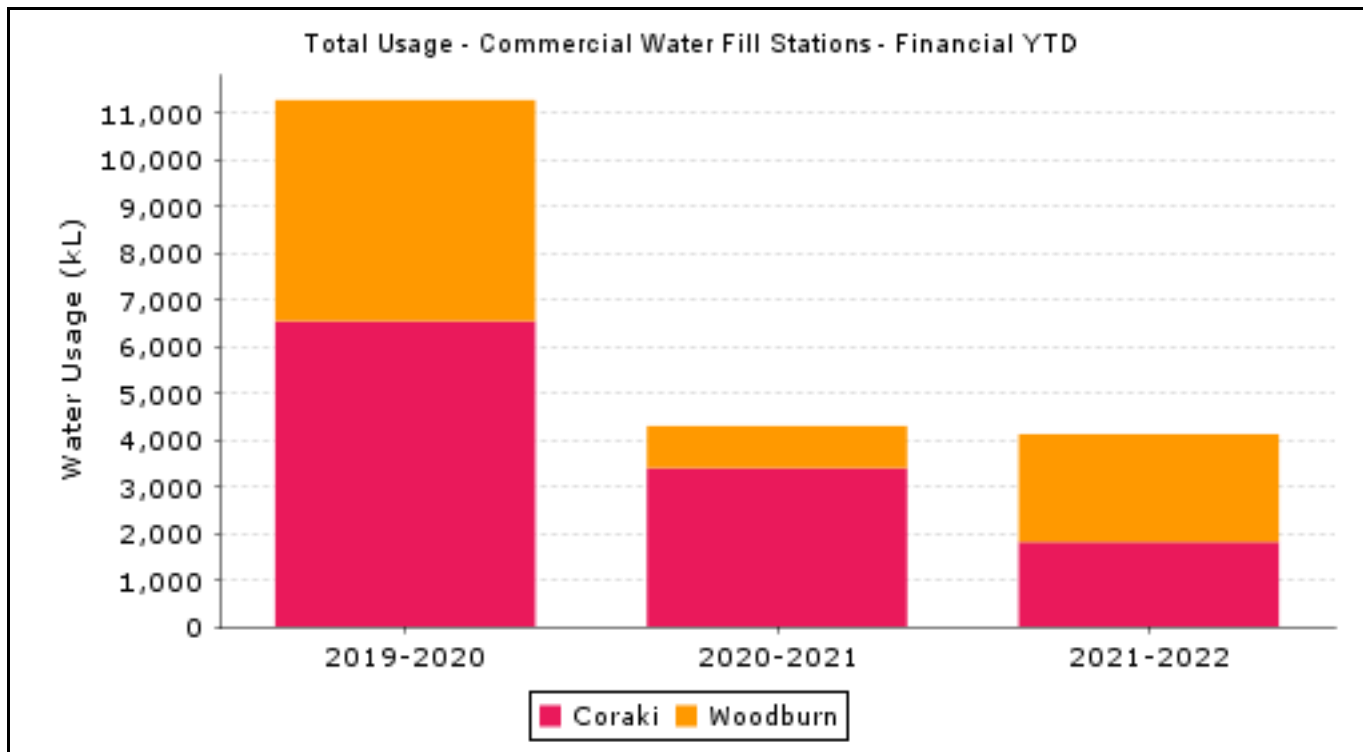


Figure 19: Total usage of commercial water fill stations. 1 July to 31 May