

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme QANTAS AIRWAYS LTDACN/ARSN 009 661 901**1. Details of substantial holder (1)**Name BlackRock Group (BlackRock Inc. and subsidiaries named in Annexures
ACN/ARSN (if applicable) to this form)The holder became a substantial holder on 30 / 01 / 2023**2. Details of voting power**

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)
ord	96,551,733	96,551,733	5.31
ADR 1:5	1,173	5,865	0.00

3. Details of relevant interests

The nature of the relevant interest the substantial holder or an associate had in the following voting securities on the date the substantial holder became a substantial holder are as follows:

Holder of relevant interest	Nature of relevant interest (7)	Class and number of securities
Annexure A & D		

4. Details of present registered holders

The persons registered as holders of the securities referred to in paragraph 3 above are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Class and number of securities
see Annexure A			

5. Consideration

The consideration paid for each relevant interest referred to in paragraph 3 above, and acquired in the four months prior to the day that the substantial holder became a substantial holder is as follows:

Holder of relevant interest	Date of acquisition	Consideration (9)		Class and number of securities
		Cash	Non-cash	
see Annexure B				

6. Associates

The reasons the persons named in paragraph 3 above are associates of the substantial holder are as follows:

Name and ACN/ARSN (if applicable)	Nature of association
see Annexure A	

7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
see Annexure C	

Signature

print name Shawna Reese

capacity Authorised Signatory*

sign here

date 01 / 02 / 2023

* At a meeting of the Board on 22 November 2013, the Directors resolved to approve the delegation of the preparation and lodgement of substantial shareholder notices on behalf of BlackRock Investment Management (Australia) Limited.

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related relevant interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 7 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an associate has a relevant interest in.
- (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (7) Include details of:
 - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.
- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
- (9) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

01-Feb-23

Shawna Reese,
Authorised Signatory

Date

3. Details of Relevant Interests**4. Details of present registered holders****6. Associates**

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
APERIO GROUP LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ADR 1:5 1,173	5,865	subsidiary of BlackRock Inc.
APERIO GROUP LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ord 72,289	72,289	subsidiary of BlackRock Inc.
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 572,687	572,687	subsidiary of BlackRock Inc.
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 339,339	339,339	subsidiary of BlackRock Inc.
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET SINGAPORE		ord 1,128	1,128	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BANK OF NY BRUS		ord 71,673	71,673	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY EUROPE - LONDON		ord 524,774	524,774	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	JPM-JPM CHASE - LONDON		ord 1,016,353	1,016,353	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST UK		ord 253,635	253,635	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET DUBLIN		ord 8,078,131	8,078,131	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	STATE STREET BANK, MUNICH, ZURICH BRANCH		ord 29,638	29,638	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 597,358	597,358	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 278,444	278,444	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 81,453	81,453	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ord 521,519	521,519	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-CIBC MELLON GLOBAL SECURITIES - NEW YORK		ord 176,935	176,935	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 4,566	4,566	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 483,775	483,775	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 43,040	43,040	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord 225,959	225,959	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BANK OF NY BRUS		ord 14,133	14,133	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 58,224	58,224	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-CITIBANK, HONG KONG		ord 11,791	11,791	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 16,157	16,157	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 28,432	28,432	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 386,289	386,289	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	HSBC-HSBC, HONG KONG		ord 10,937	10,937	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 83,449	83,449	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	Mitsubishi UFJ Investor Services & Banking Lux S.A		ord 41,430	41,430	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ord 29,579	29,579	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST UK		ord 16,030	16,030	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STATE HONG KONG		ord 641,929	641,929	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET BANK & TRUST TORONTO		ord 5,191	5,191	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET BANK, BOSTON		ord 199,876	199,876	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ord 53,113	53,113	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord 14,529,675	14,529,675	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNP PRIME CUSTODY US		ord 105,161	105,161	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BANK OF NY BRUS		ord 1,337,121	1,337,121	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 669,235	669,235	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ord 142,354	142,354	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-CITIGROUP GLOBAL MARKETS PRIME BROKERAGE - NEW YORK		ord 38,176	38,176	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 12,824,871	12,824,871	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	MS-MORGAN STANLEY & CO INC		ord 5,576	5,576	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ord 231,324	231,324	subsidiary of BlackRock Inc.

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BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 456,178	456,178	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STATE HONG KONG		ord 55,648	55,648	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord 1,856	1,856	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	UBS- UBS- ZURICH		ord 108,227	108,227	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 276,645	276,645	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST UK		ord 194,239	194,239	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 6,682	6,682	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNP-BNP PARIBAS AUSTRALIA - COGENT		ord 299,916	299,916	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ord 35,020	35,020	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-Citigroup Australia - SYDNEY		ord 479,008	479,008	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	HSBC-HSBC SYDNEY		ord 3,110,716	3,110,716	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JPM CHASE - SYDNEY		ord 12,966,910	12,966,910	subsidiary of BlackRock Inc.

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BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ord 7,262,041	7,262,041	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	Northern Trust Singapore		ord 4,667,028	4,667,028	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	UBS- UBS- ZURICH		ord 219,316	219,316	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNP PARIBAS LUX		ord 6,248	6,248	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNP-BNP Paribas Milan		ord 134,206	134,206	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BANK OF NY BRUS		ord 1,110,878	1,110,878	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY EUROPE - LONDON		ord 4,015,475	4,015,475	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 2,078,904	2,078,904	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	CB-Caceis Bank Amsterdam		ord 41,609	41,609	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	CITI-CITIBANK, LONDON		ord 970,550	970,550	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	CREDIT SUISSE (ZURICH)		ord 89,858	89,858	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	HSBC BANK MIDDLE EAST LIMITED		ord 13,459	13,459	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	HSBC-HSBC - LONDON		ord 914,691	914,691	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 47,717	47,717	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	JPM-JPM CHASE - LONDON		ord 112,670	112,670	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	NT-NORTHERN TRUST UK		ord 4,653,920	4,653,920	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STATE HONG KONG		ord 23,391	23,391	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ord 530,433	530,433	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-State Street Bank S.p.A		ord 101,599	101,599	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET BANK, GERMANY		ord 18,440	18,440	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET LONDON		ord 219,574	219,574	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 85,137	85,137	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 3,128,531	3,128,531	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 611,573	611,573	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 501,861	501,861	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 85,991	85,991	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ord 99,356	99,356	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ord 14,603	14,603	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 23,014	23,014	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 18,731	18,731	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 123,928	123,928	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JPM CHASE - LONDON		ord 598,557	598,557	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	MITSUI-SUMITOMO TRUST		ord 41,414	41,414	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-State Street Bank And Trust Co.		ord 1,133,777	1,133,777	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET BANK, BOSTON		ord 9,459	9,459	subsidiary of BlackRock Inc.

This is Annexure B of 21 pages referred to in form 603 Notice of initial substantial shareholder

01-Feb-23

Shawna Reese,
Authorised Signatory

Date

5. Consideration

QANTAS AIRWAYS LTD (QAN)

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Fund Advisors	03-Oct-22	no	n/a	in specie	AUD	ord	2,970	2,970
BlackRock Advisors (UK) Limited	03-Oct-22	yes	5.00	on mkt buy	AUD	ord	9,977	9,977
BlackRock Institutional Trust Company, National Association	03-Oct-22	yes	4.97	on mkt buy	AUD	ord	9,769	9,769
BlackRock Advisors (UK) Limited	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	4,132	4,132
BlackRock Investment Management (UK) Limited	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	4,389	4,389
BlackRock Financial Management, Inc.	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	482	482
BlackRock Institutional Trust Company, National Association	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	2,361	2,361
BlackRock Investment Management, LLC	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	4,477	4,477
BlackRock Investment Management (Australia) Limited	03-Oct-22	yes	4.98	on mkt buy	AUD	ord	21,920	21,920
BlackRock Investment Management (UK) Limited	03-Oct-22	no	n/a	collateral transfer	AUD	ord	88,540	88,540
BlackRock Institutional Trust Company, National Association	03-Oct-22	no	n/a	in specie	AUD	ord	520,778	520,778
BlackRock Fund Advisors	04-Oct-22	no	n/a	in specie	AUD	ord	3,912	3,912
BlackRock Fund Advisors	04-Oct-22	no	n/a	in specie	AUD	ord	2,608	2,608
BlackRock Investment Management (Australia) Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	13,398	13,398
BlackRock Advisors (UK) Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	156	156
BlackRock Institutional Trust Company, National Association	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	5,369	5,369
BlackRock Investment Management (UK) Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	3,095	3,095
BlackRock International Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	8,651	8,651
BlackRock Advisors (UK) Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	13,620	13,620
BlackRock Advisors (UK) Limited	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	9,782	9,782
BlackRock Financial Management, Inc.	04-Oct-22	yes	5.17	on mkt buy	AUD	ord	6,820	6,820
BlackRock Advisors (UK) Limited	04-Oct-22	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Fund Advisors	05-Oct-22	no	n/a	in specie	AUD	ord	2,364	2,364
BlackRock Investment Management (Australia) Limited	05-Oct-22	yes	5.28	on mkt buy	AUD	ord	9,601	9,601
BlackRock Investment Management (Australia) Limited	05-Oct-22	yes	5.28	on mkt buy	AUD	ord	20,775	20,775
BlackRock Japan Co., Ltd.	05-Oct-22	yes	5.29	on mkt buy	AUD	ord	85,544	85,544
BlackRock Financial Management, Inc.	05-Oct-22	yes	5.30	on mkt buy	AUD	ord	10,823	10,823
BlackRock Advisors (UK) Limited	05-Oct-22	yes	5.30	on mkt buy	AUD	ord	1,099	1,099
BlackRock Advisors (UK) Limited	05-Oct-22	yes	5.30	on mkt buy	AUD	ord	785	785
BlackRock Advisors (UK) Limited	05-Oct-22	yes	5.30	on mkt buy	AUD	ord	314	314
BlackRock Advisors (UK) Limited	05-Oct-22	yes	5.30	on mkt buy	AUD	ord	59,341	59,341
BlackRock Japan Co., Ltd.	05-Oct-22	no	n/a	collateral transfer	AUD	ord	18,025	18,025
BlackRock (Singapore) Limited	05-Oct-22	no	n/a	collateral transfer	AUD	ord	28,507	28,507
BlackRock Advisors (UK) Limited	05-Oct-22	no	n/a	collateral transfer	AUD	ord	1,838,287	1,838,287
BlackRock Investment Management, LLC	05-Oct-22	no	n/a	collateral transfer	AUD	ord	279,026	279,026
BlackRock Investment Management (UK) Limited	05-Oct-22	no	n/a	collateral transfer	AUD	ord	1,098,804	1,098,804
BlackRock Fund Advisors	06-Oct-22	yes	5.31	on mkt buy	AUD	ord	189,363	189,363
BlackRock Financial Management, Inc.	06-Oct-22	no	n/a	collateral transfer	AUD	ord	31,906	31,906
BlackRock Fund Advisors	07-Oct-22	no	n/a	in specie	AUD	ord	4,956	4,956
BlackRock Advisors (UK) Limited	07-Oct-22	yes	5.35	on mkt buy	AUD	ord	2,118	2,118
BlackRock Advisors (UK) Limited	07-Oct-22	yes	5.35	on mkt buy	AUD	ord	160	160
BlackRock Advisors (UK) Limited	07-Oct-22	yes	5.35	on mkt buy	AUD	ord	1,760	1,760

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	07-Oct-22	yes	5.35	on mkt buy	AUD	ord	11,743	11,743
BlackRock Investment Management (Australia) Limited	07-Oct-22	yes	5.35	on mkt buy	AUD	ord	30,657	30,657
BlackRock Advisors (UK) Limited	07-Oct-22	no	n/a	in specie	AUD	ord	35,120	35,120
BlackRock Investment Management, LLC	10-Oct-22	yes	5.20	on mkt buy	AUD	ord	13,093	13,093
BlackRock Institutional Trust Company, National Association	10-Oct-22	yes	5.20	on mkt buy	AUD	ord	2,464	2,464
BlackRock Advisors (UK) Limited	10-Oct-22	no	n/a	collateral transfer	AUD	ord	36,444	36,444
BlackRock Investment Management (UK) Limited	10-Oct-22	no	n/a	collateral transfer	AUD	ord	62,017	62,017
BlackRock Investment Management (UK) Limited	11-Oct-22	yes	5.27	on mkt buy	AUD	ord	1,432,839	1,432,839
BlackRock Investment Management (Australia) Limited	11-Oct-22	yes	5.26	on mkt buy	AUD	ord	13,884	13,884
BlackRock Investment Management (UK) Limited	11-Oct-22	yes	5.29	on mkt buy	AUD	ord	30,182	30,182
BlackRock Fund Advisors	11-Oct-22	no	n/a	in specie	AUD	ord	2,960	2,960
BlackRock Advisors (UK) Limited	11-Oct-22	yes	5.24	on mkt buy	AUD	ord	303	303
BlackRock Institutional Trust Company, National Association	11-Oct-22	yes	5.24	on mkt buy	AUD	ord	31,723	31,723
BlackRock Fund Advisors	11-Oct-22	no	n/a	in specie	AUD	ord	4,016	4,016
BlackRock Advisors (UK) Limited	11-Oct-22	no	n/a	collateral transfer	AUD	ord	48,147	48,147
BlackRock Investment Management (UK) Limited	11-Oct-22	no	n/a	collateral transfer	AUD	ord	1,135,330	1,135,330
BlackRock (Singapore) Limited	12-Oct-22	no	n/a	collateral transfer	AUD	ord	2	2
BlackRock Advisors (UK) Limited	12-Oct-22	no	n/a	collateral transfer	AUD	ord	118,221	118,221
BlackRock Investment Management, LLC	12-Oct-22	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Fund Advisors	13-Oct-22	no	n/a	in specie	AUD	ord	5,960	5,960
BlackRock Investment Management (Australia) Limited	13-Oct-22	yes	5.68	on mkt buy	AUD	ord	25,891	25,891
BlackRock Advisors (UK) Limited	13-Oct-22	yes	5.62	on mkt buy	AUD	ord	930	930
BlackRock Japan Co., Ltd.	13-Oct-22	yes	5.62	on mkt buy	AUD	ord	9,884	9,884
BlackRock Japan Co., Ltd.	13-Oct-22	no	n/a	collateral transfer	AUD	ord	13	13
BlackRock Advisors (UK) Limited	13-Oct-22	no	n/a	collateral transfer	AUD	ord	610,504	610,504
BlackRock Financial Management, Inc.	13-Oct-22	no	n/a	collateral transfer	AUD	ord	62,005	62,005
BlackRock Investment Management (UK) Limited	13-Oct-22	no	n/a	collateral transfer	AUD	ord	12,701	12,701
BlackRock Advisors (UK) Limited	14-Oct-22	yes	5.80	on mkt buy	AUD	ord	1,240	1,240
BlackRock Japan Co., Ltd.	14-Oct-22	no	n/a	collateral transfer	AUD	ord	1,715	1,715
BlackRock (Singapore) Limited	14-Oct-22	no	n/a	collateral transfer	AUD	ord	9,442	9,442
BlackRock Advisors (UK) Limited	14-Oct-22	no	n/a	collateral transfer	AUD	ord	73,362	73,362
BlackRock Investment Management, LLC	14-Oct-22	no	n/a	collateral transfer	AUD	ord	60,475	60,475
BlackRock Investment Management (UK) Limited	14-Oct-22	no	n/a	collateral transfer	AUD	ord	57,421	57,421
BlackRock Asset Management North Asia Limited	14-Oct-22	no	n/a	collateral transfer	AUD	ord	3,628	3,628
BlackRock Fund Advisors	17-Oct-22	no	n/a	in specie	AUD	ord	6,275	6,275
BlackRock Japan Co., Ltd.	17-Oct-22	no	n/a	collateral transfer	AUD	ord	85	85
BlackRock (Singapore) Limited	17-Oct-22	no	n/a	collateral transfer	AUD	ord	5,236	5,236
BlackRock Advisors (UK) Limited	17-Oct-22	no	n/a	collateral transfer	AUD	ord	294,064	294,064
BlackRock Financial Management, Inc.	17-Oct-22	no	n/a	collateral transfer	AUD	ord	526,487	526,487
BlackRock Investment Management, LLC	17-Oct-22	no	n/a	collateral transfer	AUD	ord	2,257	2,257
BlackRock Investment Management (UK) Limited	17-Oct-22	no	n/a	collateral transfer	AUD	ord	59,306	59,306
BlackRock Asset Management North Asia Limited	17-Oct-22	no	n/a	collateral transfer	AUD	ord	209	209
BlackRock Fund Advisors	18-Oct-22	no	n/a	in specie	AUD	ord	880	880

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Advisors (UK) Limited	18-Oct-22	no	n/a	collateral transfer	AUD	ord	1,205,984	1,205,984
BlackRock Investment Management, LLC	18-Oct-22	no	n/a	collateral transfer	AUD	ord	7,322	7,322
BlackRock Fund Advisors	19-Oct-22	no	n/a	in specie	AUD	ord	2,590	2,590
BlackRock Fund Advisors	19-Oct-22	no	n/a	in specie	AUD	ord	3,108	3,108
BlackRock Advisors (UK) Limited	19-Oct-22	yes	6.00	on mkt buy	AUD	ord	1,848	1,848
BlackRock Advisors (UK) Limited	19-Oct-22	yes	6.00	on mkt buy	AUD	ord	1,026	1,026
BlackRock Japan Co., Ltd.	19-Oct-22	no	n/a	collateral transfer	AUD	ord	70	70
BlackRock (Singapore) Limited	19-Oct-22	no	n/a	collateral transfer	AUD	ord	573	573
BlackRock Investment Management, LLC	19-Oct-22	no	n/a	collateral transfer	AUD	ord	3,503	3,503
BlackRock Asset Management North Asia Limited	19-Oct-22	no	n/a	collateral transfer	AUD	ord	179	179
BlackRock Fund Advisors	20-Oct-22	no	n/a	in specie	AUD	ord	2,440	2,440
BlackRock Fund Advisors	20-Oct-22	no	n/a	in specie	AUD	ord	7,320	7,320
BlackRock Fund Advisors	20-Oct-22	no	n/a	in specie	AUD	ord	6,100	6,100
BlackRock Advisors (UK) Limited	20-Oct-22	yes	6.02	on mkt buy	AUD	ord	770	770
BlackRock Advisors (UK) Limited	20-Oct-22	yes	6.02	on mkt buy	AUD	ord	750	750
BlackRock Advisors (UK) Limited	20-Oct-22	yes	6.02	on mkt buy	AUD	ord	396	396
BlackRock Fund Advisors	20-Oct-22	no	n/a	in specie	AUD	ord	3,660	3,660
BlackRock Asset Management Canada Limited	21-Oct-22	yes	5.97	on mkt buy	AUD	ord	8,794	8,794
BlackRock Fund Advisors	21-Oct-22	no	n/a	in specie	AUD	ord	6,655	6,655
BlackRock Investment Management (UK) Limited	21-Oct-22	yes	5.84	on mkt buy	AUD	ord	98,461	98,461
BlackRock Institutional Trust Company, National Association	21-Oct-22	yes	5.84	on mkt buy	AUD	ord	12,505	12,505
BlackRock Financial Management, Inc.	21-Oct-22	yes	5.84	on mkt buy	AUD	ord	25,783	25,783
BlackRock Financial Management, Inc.	21-Oct-22	yes	5.84	on mkt buy	AUD	ord	11,816	11,816
BlackRock Institutional Trust Company, National Association	21-Oct-22	yes	5.84	on mkt buy	AUD	ord	23,564	23,564
BlackRock Financial Management, Inc.	21-Oct-22	no	n/a	collateral transfer	AUD	ord	62,014	62,014
BlackRock Fund Advisors	24-Oct-22	no	n/a	in specie	AUD	ord	6,660	6,660
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.96	on mkt buy	AUD	ord	14,729	14,729
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.86	on mkt buy	AUD	ord	1,002	1,002
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.86	on mkt buy	AUD	ord	2,468	2,468
BlackRock Investment Management (Australia) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	19,100	19,100
BlackRock Advisors (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	500	500
BlackRock Advisors (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	95	95
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	5,819	5,819
BlackRock Investment Management (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	4,013	4,013
BlackRock Advisors, LLC	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	6,197	6,197
BlackRock International Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	8,224	8,224
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	44,865	44,865
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	7,811	7,811
BlackRock Institutional Trust Company, National Association	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	5,203	5,203
BlackRock Advisors (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	19,311	19,311
BlackRock Advisors (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	11,800	11,800
BlackRock Investment Management (UK) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	16,984	16,984
BlackRock (Singapore) Limited	24-Oct-22	yes	5.83	on mkt buy	AUD	ord	10,561	10,561
BlackRock Advisors (UK) Limited	24-Oct-22	no	n/a	collateral transfer	AUD	ord	4,241,200	4,241,200
BlackRock Investment Management (Australia) Limited	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	5,112	5,112
BlackRock Advisors, LLC	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	132,987	132,987
BlackRock Institutional Trust Company, National Association	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	14,875	14,875
BlackRock Advisors, LLC	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	1,033	1,033
BlackRock Advisors, LLC	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	31,960	31,960
BlackRock Investment Management, LLC	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	21,429	21,429
BlackRock (Singapore) Limited	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	101,799	101,799

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	2,095	2,095
BlackRock Investment Management, LLC	25-Oct-22	yes	5.93	on mkt buy	AUD	ord	14,698	14,698
BlackRock Fund Advisors	25-Oct-22	no	n/a	in specie	AUD	ord	2,008	2,008
BlackRock Advisors (UK) Limited	25-Oct-22	yes	5.94	on mkt buy	AUD	ord	924	924
BlackRock Investment Management (UK) Limited	25-Oct-22	yes	5.94	on mkt buy	AUD	ord	2,956	2,956
BlackRock Institutional Trust Company, National Association	25-Oct-22	yes	5.94	on mkt buy	AUD	ord	30,253	30,253
BlackRock Institutional Trust Company, National Association	25-Oct-22	yes	5.94	on mkt buy	AUD	ord	3,484	3,484
BlackRock (Singapore) Limited	25-Oct-22	yes	5.94	on mkt buy	AUD	ord	6,701	6,701
BlackRock Japan Co., Ltd.	25-Oct-22	no	n/a	collateral transfer	AUD	ord	679	679
BlackRock (Singapore) Limited	25-Oct-22	no	n/a	collateral transfer	AUD	ord	952	952
BlackRock Financial Management, Inc.	25-Oct-22	no	n/a	collateral transfer	AUD	ord	346	346
BlackRock Investment Management, LLC	25-Oct-22	no	n/a	collateral transfer	AUD	ord	12,701	12,701
BlackRock Investment Management (UK) Limited	25-Oct-22	no	n/a	collateral transfer	AUD	ord	30,441	30,441
BlackRock Asset Management North Asia Limited	25-Oct-22	no	n/a	collateral transfer	AUD	ord	49	49
BlackRock Advisors (UK) Limited	26-Oct-22	yes	5.86	on mkt buy	AUD	ord	1,672	1,672
BlackRock Investment Management, LLC	26-Oct-22	yes	5.86	on mkt buy	AUD	ord	1,547	1,547
BlackRock Advisors (UK) Limited	26-Oct-22	no	n/a	collateral transfer	AUD	ord	2,261,284	2,261,284
BlackRock Investment Management (Australia) Limited	27-Oct-22	yes	5.85	on mkt buy	AUD	ord	14,033	14,033
BlackRock Fund Advisors	27-Oct-22	no	n/a	in specie	AUD	ord	6,365	6,365
BlackRock Advisors (UK) Limited	27-Oct-22	yes	5.83	on mkt buy	AUD	ord	1,764	1,764
BlackRock Japan Co., Ltd.	27-Oct-22	yes	5.83	on mkt buy	AUD	ord	9,648	9,648
BlackRock Japan Co., Ltd.	27-Oct-22	yes	5.83	on mkt buy	AUD	ord	3,944	3,944
BlackRock Investment Management (UK) Limited	27-Oct-22	no	n/a	collateral transfer	AUD	ord	2	2
APERIO GROUP LLC	27-Oct-22	no	n/a	in specie	AUD	ord	38,528	38,528
BlackRock Fund Advisors	28-Oct-22	no	n/a	in specie	AUD	ord	3,684	3,684
BlackRock Advisors (UK) Limited	28-Oct-22	yes	5.76	on mkt buy	AUD	ord	4,218	4,218
BlackRock Advisors (UK) Limited	28-Oct-22	yes	5.76	on mkt buy	AUD	ord	775	775
BlackRock Japan Co., Ltd.	28-Oct-22	no	n/a	collateral transfer	AUD	ord	2,566	2,566
BlackRock (Singapore) Limited	28-Oct-22	no	n/a	collateral transfer	AUD	ord	20,614	20,614
BlackRock Financial Management, Inc.	28-Oct-22	no	n/a	collateral transfer	AUD	ord	10,229	10,229
BlackRock Investment Management, LLC	28-Oct-22	no	n/a	collateral transfer	AUD	ord	18,555	18,555
BlackRock Investment Management (UK) Limited	28-Oct-22	no	n/a	collateral transfer	AUD	ord	107,459	107,459
BlackRock Asset Management North Asia Limited	28-Oct-22	no	n/a	collateral transfer	AUD	ord	4,889	4,889
BlackRock Fund Advisors	31-Oct-22	no	n/a	in specie	AUD	ord	4,600	4,600
BlackRock Fund Advisors	31-Oct-22	no	n/a	in specie	AUD	ord	1,008	1,008
BlackRock Institutional Trust Company, National Association	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	21,760	21,760
BlackRock Institutional Trust Company, National Association	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	11,797	11,797
BlackRock Institutional Trust Company, National Association	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	11,350	11,350
BlackRock Advisors (UK) Limited	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	2,109	2,109
BlackRock Advisors (UK) Limited	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	4,218	4,218
BlackRock Advisors (UK) Limited	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	608	608
BlackRock Advisors (UK) Limited	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	26,725	26,725
BlackRock Investment Management (UK) Limited	31-Oct-22	yes	5.84	on mkt buy	AUD	ord	2,075	2,075
BlackRock Advisors (UK) Limited	31-Oct-22	no	n/a	collateral transfer	AUD	ord	1,430,670	1,430,670
BlackRock Fund Advisors	01-Nov-22	no	n/a	in specie	AUD	ord	2,352	2,352
BlackRock Advisors, LLC	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	102,953	102,953
BlackRock Institutional Trust Company, National Association	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	11,551	11,551
BlackRock Advisors, LLC	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	803	803
BlackRock Advisors, LLC	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	24,848	24,848
BlackRock Investment Management, LLC	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	16,663	16,663

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock (Singapore) Limited	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	79,107	79,107
BlackRock Investment Management (Australia) Limited	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	1,633	1,633
BlackRock Investment Management, LLC	01-Nov-22	yes	5.90	on mkt buy	AUD	ord	11,445	11,445
BlackRock Fund Advisors	01-Nov-22	no	n/a	in specie	AUD	ord	2,320	2,320
BlackRock Investment Management (Australia) Limited	01-Nov-22	yes	5.95	on mkt buy	AUD	ord	4,635	4,635
BlackRock Advisors (UK) Limited	01-Nov-22	yes	6.00	on mkt buy	AUD	ord	4,218	4,218
BlackRock Institutional Trust Company, National Association	01-Nov-22	yes	6.00	on mkt buy	AUD	ord	15,465	15,465
BlackRock Financial Management, Inc.	01-Nov-22	yes	6.00	on mkt buy	AUD	ord	29,929	29,929
BlackRock Financial Management, Inc.	01-Nov-22	yes	6.00	on mkt buy	AUD	ord	14,965	14,965
BlackRock Institutional Trust Company, National Association	01-Nov-22	yes	6.00	on mkt buy	AUD	ord	26,757	26,757
BlackRock Fund Advisors	02-Nov-22	no	n/a	in specie	AUD	ord	2,620	2,620
BlackRock Institutional Trust Company, National Association	02-Nov-22	yes	5.99	on mkt buy	AUD	ord	1,118	1,118
BlackRock Institutional Trust Company, National Association	02-Nov-22	yes	5.99	on mkt buy	AUD	ord	64,106	64,106
BlackRock Institutional Trust Company, National Association	02-Nov-22	yes	5.99	on mkt buy	AUD	ord	16,227	16,227
BlackRock Institutional Trust Company, National Association	02-Nov-22	yes	5.99	on mkt buy	AUD	ord	15,752	15,752
BlackRock Institutional Trust Company, National Association	02-Nov-22	yes	5.98	on mkt buy	AUD	ord	31,812	31,812
BlackRock Financial Management, Inc.	02-Nov-22	yes	5.98	on mkt buy	AUD	ord	3,911	3,911
BlackRock Investment Management (UK) Limited	02-Nov-22	no	n/a	collateral transfer	AUD	ord	693,797	693,797
BlackRock Investment Management (Australia) Limited	03-Nov-22	yes	5.92	on mkt buy	AUD	ord	16,443	16,443
BlackRock Fund Advisors	03-Nov-22	no	n/a	in specie	AUD	ord	5,229	5,229
BlackRock Fund Advisors	03-Nov-22	no	n/a	in specie	AUD	ord	2,704	2,704
BlackRock Investment Management (UK) Limited	03-Nov-22	yes	5.90	on mkt buy	AUD	ord	4,766	4,766
BlackRock Investment Management (Australia) Limited	03-Nov-22	yes	5.96	on mkt buy	AUD	ord	10,639	10,639
BlackRock Advisors (UK) Limited	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	2,109	2,109
BlackRock Japan Co., Ltd.	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	5,144	5,144
BlackRock Japan Co., Ltd.	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	2,893	2,893
BlackRock Japan Co., Ltd.	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	3,420	3,420
BlackRock Japan Co., Ltd.	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	2,861	2,861
BlackRock Institutional Trust Company, National Association	03-Nov-22	yes	5.95	on mkt buy	AUD	ord	13,297	13,297
BlackRock Advisors (UK) Limited	03-Nov-22	no	n/a	collateral transfer	AUD	ord	2	2
BlackRock Fund Advisors	04-Nov-22	no	n/a	in specie	AUD	ord	11,130	11,130
BlackRock Advisors (UK) Limited	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	2,109	2,109
BlackRock Advisors (UK) Limited	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	153	153
BlackRock Advisors (UK) Limited	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	620	620
BlackRock Institutional Trust Company, National Association	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	10,734	10,734
BlackRock Financial Management, Inc.	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	26,263	26,263
BlackRock Financial Management, Inc.	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	12,119	12,119
BlackRock Institutional Trust Company, National Association	04-Nov-22	yes	5.97	on mkt buy	AUD	ord	23,292	23,292
BlackRock Advisors (UK) Limited	04-Nov-22	no	n/a	collateral transfer	AUD	ord	741,959	741,959
BlackRock Fund Advisors	07-Nov-22	no	n/a	in specie	AUD	ord	1,498	1,498
BlackRock Fund Advisors	07-Nov-22	no	n/a	in specie	AUD	ord	4,518	4,518
BlackRock Institutional Trust Company, National Association	07-Nov-22	yes	6.02	on mkt buy	AUD	ord	22,905	22,905
BlackRock Advisors (UK) Limited	07-Nov-22	yes	6.04	on mkt buy	AUD	ord	4,236	4,236
BlackRock Advisors (UK) Limited	07-Nov-22	yes	6.04	on mkt buy	AUD	ord	98	98
BlackRock Fund Advisors	07-Nov-22	no	n/a	in specie	AUD	ord	22,092	22,092
BlackRock Advisors (UK) Limited	07-Nov-22	no	n/a	collateral transfer	AUD	ord	4,662,145	4,662,145
BlackRock Fund Advisors	08-Nov-22	no	n/a	in specie	AUD	ord	18,624	18,624
BlackRock Advisors, LLC	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	33,415	33,415
BlackRock Institutional Trust Company, National Association	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	3,799	3,799
BlackRock Advisors, LLC	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	267	267
BlackRock Advisors, LLC	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	8,091	8,091
BlackRock Investment Management, LLC	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	5,405	5,405
BlackRock (Singapore) Limited	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	26,073	26,073

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			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	504	504
BlackRock Investment Management, LLC	08-Nov-22	yes	6.08	on mkt buy	AUD	ord	3,768	3,768
BlackRock Fund Advisors	08-Nov-22	no	n/a	in specie	AUD	ord	642	642
BlackRock Investment Management (Australia) Limited	08-Nov-22	yes	6.13	on mkt buy	AUD	ord	70,670	70,670
BlackRock Advisors (UK) Limited	08-Nov-22	yes	6.13	on mkt buy	AUD	ord	253	253
BlackRock Advisors (UK) Limited	08-Nov-22	yes	6.13	on mkt buy	AUD	ord	1,012	1,012
BlackRock Advisors (UK) Limited	08-Nov-22	yes	6.13	on mkt buy	AUD	ord	95	95
BlackRock (Singapore) Limited	08-Nov-22	yes	6.13	on mkt buy	AUD	ord	8,990	8,990
BlackRock Advisors (UK) Limited	08-Nov-22	no	n/a	collateral transfer	AUD	ord	498,503	498,503
BlackRock Investment Management (UK) Limited	08-Nov-22	no	n/a	collateral transfer	AUD	ord	1,114,225	1,114,225
BlackRock Fund Advisors	09-Nov-22	no	n/a	in specie	AUD	ord	2,595	2,595
BlackRock Fund Advisors	09-Nov-22	no	n/a	in specie	AUD	ord	14,616	14,616
BlackRock Institutional Trust Company, National Association	09-Nov-22	yes	6.02	on mkt buy	AUD	ord	78,929	78,929
BlackRock Institutional Trust Company, National Association	09-Nov-22	yes	6.02	on mkt buy	AUD	ord	8,399	8,399
BlackRock Institutional Trust Company, National Association	09-Nov-22	yes	6.02	on mkt buy	AUD	ord	8,148	8,148
BlackRock Advisors (UK) Limited	09-Nov-22	yes	6.01	on mkt buy	AUD	ord	254	254
BlackRock Advisors (UK) Limited	09-Nov-22	yes	6.01	on mkt buy	AUD	ord	508	508
BlackRock Investment Management (Australia) Limited	09-Nov-22	yes	6.01	on mkt buy	AUD	ord	6,264	6,264
BlackRock (Singapore) Limited	09-Nov-22	no	n/a	collateral transfer	AUD	ord	28,489	28,489
BlackRock Advisors (UK) Limited	09-Nov-22	no	n/a	collateral transfer	AUD	ord	17,505	17,505
BlackRock Financial Management, Inc.	09-Nov-22	no	n/a	collateral transfer	AUD	ord	111,930	111,930
BlackRock Investment Management (UK) Limited	09-Nov-22	no	n/a	collateral transfer	AUD	ord	8,832	8,832
BlackRock Fund Advisors	10-Nov-22	no	n/a	in specie	AUD	ord	2,366	2,366
BlackRock Advisors (UK) Limited	10-Nov-22	yes	5.98	on mkt buy	AUD	ord	10,590	10,590
BlackRock Institutional Trust Company, National Association	11-Nov-22	yes	5.98	on mkt buy	AUD	ord	620	620
BlackRock Advisors (UK) Limited	11-Nov-22	yes	5.97	on mkt buy	AUD	ord	6,354	6,354
BlackRock Institutional Trust Company, National Association	11-Nov-22	yes	5.97	on mkt buy	AUD	ord	27,252	27,252
BlackRock Institutional Trust Company, National Association	11-Nov-22	yes	5.97	on mkt buy	AUD	ord	95,384	95,384
BlackRock Fund Advisors	11-Nov-22	no	n/a	in specie	AUD	ord	7,684	7,684
BlackRock Investment Management (UK) Limited	11-Nov-22	no	n/a	collateral transfer	AUD	ord	2,393,591	2,393,591
BlackRock Fund Advisors	14-Nov-22	no	n/a	in specie	AUD	ord	1,921	1,921
BlackRock Institutional Trust Company, National Association	14-Nov-22	yes	5.81	on mkt buy	AUD	ord	58,339	58,339
BlackRock Institutional Trust Company, National Association	14-Nov-22	yes	5.81	on mkt buy	AUD	ord	11,392	11,392
BlackRock Institutional Trust Company, National Association	14-Nov-22	yes	5.81	on mkt buy	AUD	ord	11,506	11,506
BlackRock Advisors (UK) Limited	14-Nov-22	yes	5.82	on mkt buy	AUD	ord	10,545	10,545
BlackRock Advisors (UK) Limited	14-Nov-22	no	n/a	collateral transfer	AUD	ord	2,023,235	2,023,235
BlackRock Advisors, LLC	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	69,467	69,467
BlackRock Institutional Trust Company, National Association	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	7,804	7,804
BlackRock Advisors, LLC	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	542	542
BlackRock Advisors, LLC	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	16,710	16,710
BlackRock Investment Management, LLC	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	10,381	10,381
BlackRock (Singapore) Limited	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	54,544	54,544
BlackRock Investment Management (Australia) Limited	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	1,090	1,090
BlackRock Investment Management, LLC	15-Nov-22	yes	5.81	on mkt buy	AUD	ord	7,719	7,719
BlackRock Advisors (UK) Limited	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	4,236	4,236
BlackRock Advisors (UK) Limited	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	1,016	1,016
BlackRock Advisors (UK) Limited	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	19,501	19,501
BlackRock Investment Management (UK) Limited	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	17,974	17,974
BlackRock Institutional Trust Company, National Association	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	91,987	91,987
BlackRock Institutional Trust Company, National Association	15-Nov-22	yes	5.83	on mkt buy	AUD	ord	4,547	4,547

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			Cash	Non-cash	CCY			
BlackRock Advisors (UK) Limited	15-Nov-22	no	n/a	collateral transfer	AUD	ord	256,919	256,919
BlackRock Institutional Trust Company, National Association	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	1,139	1,139
BlackRock Fund Advisors	16-Nov-22	no	n/a	in specie	AUD	ord	1,674	1,674
BlackRock Fund Advisors	16-Nov-22	no	n/a	in specie	AUD	ord	1,921	1,921
BlackRock Fund Advisors	16-Nov-22	no	n/a	in specie	AUD	ord	1,674	1,674
BlackRock Fund Advisors	16-Nov-22	no	n/a	in specie	AUD	ord	15,548	15,548
BlackRock Investment Management (Australia) Limited	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	8,478	8,478
BlackRock Investment Management (Australia) Limited	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	40,987	40,987
BlackRock Investment Management (Australia) Limited	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	70,438	70,438
BlackRock Advisors (UK) Limited	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	2,118	2,118
BlackRock Advisors (UK) Limited	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	765	765
BlackRock Financial Management, Inc.	16-Nov-22	yes	5.80	on mkt buy	AUD	ord	28,705	28,705
BlackRock Investment Management (Australia) Limited	17-Nov-22	yes	5.89	on mkt buy	AUD	ord	8,078	8,078
BlackRock Fund Advisors	17-Nov-22	no	n/a	in specie	AUD	ord	864	864
BlackRock Fund Advisors	17-Nov-22	no	n/a	in specie	AUD	ord	1,674	1,674
BlackRock Advisors (UK) Limited	17-Nov-22	yes	5.90	on mkt buy	AUD	ord	165	165
BlackRock Advisors (UK) Limited	17-Nov-22	yes	5.90	on mkt buy	AUD	ord	2,040	2,040
BlackRock Japan Co., Ltd.	17-Nov-22	yes	5.90	on mkt buy	AUD	ord	7,367	7,367
BlackRock Institutional Trust Company, National Association	18-Nov-22	yes	5.90	on mkt buy	AUD	ord	1,083	1,083
BlackRock Investment Management (Australia) Limited	18-Nov-22	yes	5.89	on mkt buy	AUD	ord	14,329	14,329
BlackRock Fund Advisors	18-Nov-22	no	n/a	in specie	AUD	ord	4,590	4,590
BlackRock Advisors (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	2,118	2,118
BlackRock Advisors (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	1,113	1,113
BlackRock Institutional Trust Company, National Association	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	6,606	6,606
BlackRock Investment Management (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	24,658	24,658
BlackRock Investment Management (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	2,793	2,793
BlackRock Advisors, LLC	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	3,822	3,822
BlackRock International Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	14,290	14,290
BlackRock Institutional Trust Company, National Association	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	51,407	51,407
BlackRock Institutional Trust Company, National Association	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	5,349	5,349
BlackRock Institutional Trust Company, National Association	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	3,976	3,976
BlackRock Advisors (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	12,057	12,057
BlackRock Advisors (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	7,992	7,992
BlackRock Investment Management (UK) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	8,763	8,763
BlackRock (Singapore) Limited	18-Nov-22	yes	5.88	on mkt buy	AUD	ord	17,031	17,031
BlackRock Advisors (UK) Limited	18-Nov-22	no	n/a	collateral transfer	AUD	ord	2,081,063	2,081,063
BlackRock Investment Management (UK) Limited	18-Nov-22	no	n/a	collateral transfer	AUD	ord	6,003	6,003
BlackRock Fund Advisors	21-Nov-22	no	n/a	in specie	AUD	ord	5,870	5,870
BlackRock Fund Advisors	21-Nov-22	no	n/a	in specie	AUD	ord	3,842	3,842
BlackRock Fund Advisors	21-Nov-22	no	n/a	in specie	AUD	ord	4,572	4,572
BlackRock Institutional Trust Company, National Association	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	799	799
BlackRock Advisors (UK) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	6,354	6,354
BlackRock Institutional Trust Company, National Association	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	10,383	10,383
BlackRock Investment Management (UK) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	5,692	5,692
BlackRock Advisors, LLC	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	6,002	6,002
BlackRock Asset Management Canada Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	4,268	4,268
BlackRock International Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	23,666	23,666
BlackRock Institutional Trust Company, National Association	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	83,767	83,767
BlackRock Institutional Trust Company, National Association	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	8,859	8,859
BlackRock Institutional Trust Company, National Association	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	6,984	6,984
BlackRock Advisors (UK) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	22,158	22,158

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BlackRock Advisors (UK) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	15,815	15,815
BlackRock Investment Management (UK) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	22,902	22,902
BlackRock (Singapore) Limited	21-Nov-22	yes	5.87	on mkt buy	AUD	ord	24,164	24,164
BlackRock Japan Co., Ltd.	21-Nov-22	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Investment Management (UK) Limited	21-Nov-22	no	n/a	collateral transfer	AUD	ord	1,623,952	1,623,952
BlackRock Advisors, LLC	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	57,799	57,799
BlackRock Institutional Trust Company, National Association	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	6,387	6,387
BlackRock Advisors, LLC	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	462	462
BlackRock Advisors, LLC	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	14,083	14,083
BlackRock Investment Management, LLC	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	7,745	7,745
BlackRock (Singapore) Limited	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	45,683	45,683
BlackRock Investment Management (Australia) Limited	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	921	921
BlackRock Investment Management, LLC	22-Nov-22	yes	5.89	on mkt buy	AUD	ord	6,052	6,052
BlackRock Institutional Trust Company, National Association	22-Nov-22	yes	5.87	on mkt buy	AUD	ord	13,818	13,818
BlackRock Advisors (UK) Limited	22-Nov-22	no	n/a	collateral transfer	AUD	ord	605,230	605,230
BlackRock Investment Management, LLC	22-Nov-22	no	n/a	collateral transfer	AUD	ord	110,310	110,310
BlackRock Investment Management (UK) Limited	22-Nov-22	no	n/a	collateral transfer	AUD	ord	209,784	209,784
BlackRock Institutional Trust Company, National Association	23-Nov-22	yes	6.17	on mkt buy	AUD	ord	984	984
BlackRock Advisors (UK) Limited	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	23,298	23,298
BlackRock Investment Management, LLC	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	3,237	3,237
BlackRock Institutional Trust Company, National Association	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	2,684	2,684
BlackRock Japan Co., Ltd.	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	10,041	10,041
BlackRock Japan Co., Ltd.	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	10,563	10,563
BlackRock Japan Co., Ltd.	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	4,410	4,410
BlackRock Investment Management, LLC	23-Nov-22	yes	6.18	on mkt buy	AUD	ord	2,835	2,835
BlackRock Fund Advisors	23-Nov-22	no	n/a	in specie	AUD	ord	3,724	3,724
BlackRock Fund Advisors	23-Nov-22	no	n/a	in specie	AUD	ord	3,048	3,048
BlackRock Japan Co., Ltd.	23-Nov-22	no	n/a	collateral transfer	AUD	ord	2	2
APERIO GROUP LLC	23-Nov-22	no	n/a	in specie	AUD	ord	38,528	38,528
BlackRock Institutional Trust Company, National Association	24-Nov-22	yes	6.25	on mkt buy	AUD	ord	661	661
BlackRock Advisors (UK) Limited	24-Nov-22	yes	6.19	on mkt buy	AUD	ord	2,184	2,184
BlackRock Advisors (UK) Limited	24-Nov-22	yes	6.19	on mkt buy	AUD	ord	4,368	4,368
BlackRock Advisors (UK) Limited	24-Nov-22	no	n/a	collateral transfer	AUD	ord	233,643	233,643
BlackRock Japan Co., Ltd.	25-Nov-22	yes	6.12	on mkt buy	AUD	ord	5,995	5,995
BlackRock Advisors (UK) Limited	25-Nov-22	yes	6.06	on mkt buy	AUD	ord	4,364	4,364
BlackRock Fund Advisors	25-Nov-22	no	n/a	in specie	AUD	ord	8,500	8,500
BlackRock Advisors (UK) Limited	25-Nov-22	no	n/a	collateral transfer	AUD	ord	481,838	481,838
BlackRock Investment Management (UK) Limited	25-Nov-22	no	n/a	collateral transfer	AUD	ord	370,163	370,163
APERIO GROUP LLC	25-Nov-22	no	n/a	in specie	AUD	ord	29,084	29,084
BlackRock Institutional Trust Company, National Association	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	10,852	10,852
BlackRock Institutional Trust Company, National Association	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	20,870	20,870
BlackRock Investment Management (UK) Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	14,368	14,368
BlackRock Advisors, LLC	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	4,682	4,682
BlackRock International Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	28,164	28,164
BlackRock Institutional Trust Company, National Association	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	6,514	6,514
BlackRock Institutional Trust Company, National Association	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	8,953	8,953
BlackRock Advisors (UK) Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	15,146	15,146
BlackRock Advisors (UK) Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	11,263	11,263
BlackRock Investment Management (UK) Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	23,998	23,998
BlackRock (Singapore) Limited	28-Nov-22	yes	6.14	on mkt buy	AUD	ord	37,726	37,726
BlackRock Investment Management (UK) Limited	28-Nov-22	no	n/a	collateral transfer	AUD	ord	1,743,372	1,743,372
APERIO GROUP LLC	28-Nov-22	no	n/a	in specie	AUD	ord	1,531	1,531

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			Cash	Non-cash	CCY			
BlackRock Advisors, LLC	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	28,250	28,250
BlackRock Institutional Trust Company, National Association	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	3,065	3,065
BlackRock Advisors, LLC	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	223	223
BlackRock Advisors, LLC	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	7,021	7,021
BlackRock Investment Management, LLC	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	4,572	4,572
BlackRock (Singapore) Limited	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	23,537	23,537
BlackRock Investment Management (Australia) Limited	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	439	439
BlackRock Investment Management, LLC	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	3,184	3,184
BlackRock Institutional Trust Company, National Association	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	9,296	9,296
BlackRock Investment Management (Australia) Limited	29-Nov-22	yes	6.18	on mkt buy	AUD	ord	1,607	1,607
BlackRock Investment Management (Australia) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	15,280	15,280
BlackRock Advisors (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	4,366	4,366
BlackRock Financial Management, Inc.	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	4,421	4,421
BlackRock Institutional Trust Company, National Association	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	12,462	12,462
BlackRock Investment Management (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	8,329	8,329
BlackRock Japan Co., Ltd.	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	119,220	119,220
BlackRock Advisors, LLC	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	8,101	8,101
BlackRock Advisors (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	9,760	9,760
BlackRock Asset Management Canada Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	5,618	5,618
BlackRock International Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	29,229	29,229
BlackRock Institutional Trust Company, National Association	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	6,378	6,378
BlackRock Institutional Trust Company, National Association	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	7,535	7,535
BlackRock Advisors (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	31,976	31,976
BlackRock Advisors (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	20,920	20,920
BlackRock Investment Management (UK) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	18,124	18,124
BlackRock (Singapore) Limited	29-Nov-22	yes	6.19	on mkt buy	AUD	ord	24,273	24,273
BlackRock Investment Management (UK) Limited	29-Nov-22	no	n/a	collateral transfer	AUD	ord	1,285,323	1,285,323
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.21	on mkt buy	AUD	ord	10,797	10,797
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	27,763	27,763
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	622	622
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	55,941	55,941
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	7,694	7,694
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	22,011	22,011
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	6,560	6,560
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	11,467	11,467
BlackRock Financial Management, Inc.	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	12,725	12,725
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	34,351	34,351
BlackRock Japan Co., Ltd.	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	4,171	4,171
BlackRock Japan Co., Ltd.	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	1,390	1,390
BlackRock Advisors (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	39,891	39,891
BlackRock Advisors (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	119,677	119,677
BlackRock Fund Advisors	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	26,238	26,238
BlackRock Fund Advisors	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	78,719	78,719
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	6,121	6,121
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	18,365	18,365
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	4,157	4,157
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	12,470	12,470
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	3,570	3,570
BlackRock Fund Advisors	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	192,474	192,474

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			Cash	Non-cash	CCY			
BlackRock Fund Advisors	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	95,798	95,798
BlackRock Institutional Trust Company, National Association	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	2,218	2,218
BlackRock Investment Management, LLC	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	7,801	7,801
BlackRock Investment Management (UK) Limited	30-Nov-22	yes	6.24	on mkt buy	AUD	ord	13,700	13,700
BlackRock Fund Advisors	30-Nov-22	no	n/a	in specie	AUD	ord	6,192	6,192
BlackRock Japan Co., Ltd.	30-Nov-22	no	n/a	collateral transfer	AUD	ord	5	5
BlackRock (Singapore) Limited	30-Nov-22	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Advisors (UK) Limited	30-Nov-22	no	n/a	collateral transfer	AUD	ord	8,384	8,384
BlackRock Institutional Trust Company, National Association	01-Dec-22	yes	6.25	on mkt buy	AUD	ord	8,255	8,255
BlackRock Investment Management (Australia) Limited	01-Dec-22	yes	6.24	on mkt buy	AUD	ord	4,794	4,794
BlackRock Investment Management (Australia) Limited	01-Dec-22	yes	6.23	on mkt buy	AUD	ord	2,155	2,155
BlackRock Japan Co., Ltd.	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	30,108	30,108
BlackRock Japan Co., Ltd.	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	14,822	14,822
BlackRock Japan Co., Ltd.	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	7,156	7,156
BlackRock Japan Co., Ltd.	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	8,607	8,607
BlackRock Japan Co., Ltd.	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	8,742	8,742
BlackRock Investment Management, LLC	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	5,465	5,465
BlackRock Institutional Trust Company, National Association	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	4,668	4,668
BlackRock Institutional Trust Company, National Association	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	1,460	1,460
BlackRock Advisors (UK) Limited	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	2,506	2,506
BlackRock Investment Management (UK) Limited	01-Dec-22	yes	6.22	on mkt buy	AUD	ord	3,727	3,727
BlackRock Advisors (UK) Limited	01-Dec-22	no	n/a	collateral transfer	AUD	ord	145,871	145,871
BlackRock Institutional Trust Company, National Association	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	11,681	11,681
BlackRock Institutional Trust Company, National Association	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	26,831	26,831
BlackRock Institutional Trust Company, National Association	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	4,970	4,970
BlackRock Institutional Trust Company, National Association	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	4,796	4,796
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	912	912
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	5,016	5,016
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	1,064	1,064
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	768	768
BlackRock Institutional Trust Company, National Association	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	6,474	6,474
BlackRock Investment Management (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	6,615	6,615
BlackRock International Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	16,355	16,355
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	7,442	7,442
BlackRock Advisors (UK) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	4,963	4,963
BlackRock (Singapore) Limited	02-Dec-22	yes	6.17	on mkt buy	AUD	ord	8,766	8,766
BlackRock Advisors (UK) Limited	02-Dec-22	no	n/a	collateral transfer	AUD	ord	140,834	140,834
BlackRock Financial Management, Inc.	02-Dec-22	no	n/a	collateral transfer	AUD	ord	2	2
APERIO GROUP LLC	02-Dec-22	no	n/a	in specie	AUD	ord	104,609	104,609
BlackRock Fund Advisors	05-Dec-22	no	n/a	in specie	AUD	ord	860	860
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	120	120
BlackRock Institutional Trust Company, National Association	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	7,637	7,637
BlackRock Investment Management (UK) Limited	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	1,117,705	1,117,705
BlackRock Fund Advisors	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	12,275	12,275
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	26,912	26,912
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	110,799	110,799
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	16,816	16,816
BlackRock Institutional Trust Company, National Association	05-Dec-22	yes	6.20	on mkt buy	AUD	ord	14,505	14,505
BlackRock Advisors (UK) Limited	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	936	936
BlackRock Advisors (UK) Limited	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	780	780
BlackRock Institutional Trust Company, National Association	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	7,467	7,467

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			Cash	Non-cash	CCY			
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	28,633	28,633
BlackRock Financial Management, Inc.	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	12,284	12,284
BlackRock Institutional Trust Company, National Association	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	22,907	22,907
BlackRock Institutional Trust Company, National Association	05-Dec-22	yes	6.19	on mkt buy	AUD	ord	15,497	15,497
BlackRock Advisors (UK) Limited	05-Dec-22	no	n/a	collateral transfer	AUD	ord	3,804,905	3,804,905
BlackRock Financial Management, Inc.	05-Dec-22	no	n/a	collateral transfer	AUD	ord	7	7
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.19	on mkt buy	AUD	ord	2,650	2,650
BlackRock Investment Management (Australia) Limited	06-Dec-22	yes	6.19	on mkt buy	AUD	ord	2,463	2,463
BlackRock Fund Advisors	06-Dec-22	no	n/a	in specie	AUD	ord	5,763	5,763
BlackRock Fund Advisors	06-Dec-22	no	n/a	in specie	AUD	ord	1,921	1,921
BlackRock Fund Advisors	06-Dec-22	no	n/a	in specie	AUD	ord	844	844
BlackRock Advisors (UK) Limited	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	1,560	1,560
BlackRock Advisors (UK) Limited	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	516	516
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	6,146	6,146
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	10,655	10,655
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	3,509	3,509
BlackRock Financial Management, Inc.	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	25,722	25,722
BlackRock Financial Management, Inc.	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	11,507	11,507
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	19,137	19,137
BlackRock Institutional Trust Company, National Association	06-Dec-22	yes	6.17	on mkt buy	AUD	ord	17,070	17,070
BlackRock (Singapore) Limited	06-Dec-22	no	n/a	collateral transfer	AUD	ord	402,051	402,051
BlackRock Financial Management, Inc.	06-Dec-22	no	n/a	collateral transfer	AUD	ord	2,014,726	2,014,726
BlackRock Investment Management (UK) Limited	06-Dec-22	no	n/a	collateral transfer	AUD	ord	1,219,228	1,219,228
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.22	on mkt buy	AUD	ord	7,298	7,298
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.23	on mkt buy	AUD	ord	4,954	4,954
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.23	on mkt buy	AUD	ord	436	436
BlackRock Advisors (UK) Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	774	774
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	6,791	6,791
BlackRock Investment Management (UK) Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	8,140	8,140
BlackRock Advisors, LLC	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	11,160	11,160
BlackRock Advisors, LLC	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	7,644	7,644
BlackRock International Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	19,515	19,515
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	189,476	189,476
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	5,332	5,332
BlackRock Institutional Trust Company, National Association	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	5,039	5,039
BlackRock Advisors (UK) Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	9,928	9,928
BlackRock Advisors (UK) Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	7,226	7,226
BlackRock (Singapore) Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	18,381	18,381
BlackRock Asset Management Canada Limited	07-Dec-22	yes	6.27	on mkt buy	AUD	ord	11,350	11,350
BlackRock Japan Co., Ltd.	07-Dec-22	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock (Singapore) Limited	07-Dec-22	no	n/a	collateral transfer	AUD	ord	8,802	8,802
BlackRock Investment Management (UK) Limited	07-Dec-22	no	n/a	collateral transfer	AUD	ord	31,603	31,603
APERIO GROUP LLC	07-Dec-22	no	n/a	in specie	AUD	ord	21,020	21,020
BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.13	on mkt buy	AUD	ord	5,615	5,615
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.13	on mkt buy	AUD	ord	145,292	145,292
BlackRock Advisors (UK) Limited	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	884	884
BlackRock Investment Management, LLC	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	6,189	6,189

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BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	4,577	4,577
BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	1,505	1,505
BlackRock Advisors (UK) Limited	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	3,226	3,226
BlackRock Advisors, LLC	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	7,660	7,660
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	3,694	3,694
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	46,347	46,347
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	21,887	21,887
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	9,652	9,652
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	11,434	11,434
BlackRock Japan Co., Ltd.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	14,239	14,239
BlackRock Advisors, LLC	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	21,587	21,587
BlackRock Investment Management (UK) Limited	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	2,537	2,537
BlackRock Financial Management, Inc.	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	4,961	4,961
BlackRock Investment Management, LLC	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	28,951	28,951
BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	1,674	1,674
BlackRock Investment Management (UK) Limited	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	13,387	13,387
BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	2,534	2,534
BlackRock Institutional Trust Company, National Association	08-Dec-22	yes	6.09	on mkt buy	AUD	ord	3,520	3,520
BlackRock Advisors (UK) Limited	08-Dec-22	no	n/a	collateral transfer	AUD	ord	3,500,482	3,500,482
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.18	on mkt buy	AUD	ord	249	249
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.18	on mkt buy	AUD	ord	1,854	1,854
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.18	on mkt buy	AUD	ord	17,352	17,352
BlackRock Advisors (UK) Limited	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	1,412	1,412
BlackRock Advisors (UK) Limited	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	95	95
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	8,094	8,094
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	20,999	20,999
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	21,384	21,384
BlackRock Investment Management (UK) Limited	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	11,687	11,687
BlackRock Investment Management (UK) Limited	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	1,410	1,410
BlackRock Financial Management, Inc.	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	40,085	40,085
BlackRock Financial Management, Inc.	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	17,804	17,804
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	22,127	22,127
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	32,233	32,233
BlackRock Investment Management (UK) Limited	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	1,474	1,474
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	50,192	50,192
BlackRock Institutional Trust Company, National Association	09-Dec-22	yes	6.21	on mkt buy	AUD	ord	24,928	24,928
BlackRock Investment Management (UK) Limited	09-Dec-22	no	n/a	in specie	AUD	ord	18,329	18,329
BlackRock Investment Management (UK) Limited	09-Dec-22	no	n/a	in specie	AUD	ord	9,719	9,719
BlackRock (Singapore) Limited	09-Dec-22	no	n/a	collateral transfer	AUD	ord	29,109	29,109
BlackRock Advisors (UK) Limited	09-Dec-22	no	n/a	collateral transfer	AUD	ord	194,284	194,284
BlackRock Investment Management, LLC	09-Dec-22	no	n/a	collateral transfer	AUD	ord	522,133	522,133
BlackRock Investment Management (UK) Limited	09-Dec-22	no	n/a	collateral transfer	AUD	ord	963,389	963,389
BlackRock Fund Advisors	12-Dec-22	no	n/a	in specie	AUD	ord	5,320	5,320
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	1,417	1,417
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	28,564	28,564

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			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	2,784	2,784
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	11,124	11,124
BlackRock Advisors, LLC	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	41,627	41,627
BlackRock Advisors, LLC	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	7,253	7,253
BlackRock Asset Management Canada Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	4,587	4,587
BlackRock International Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	20,720	20,720
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	113,355	113,355
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	6,969	6,969
BlackRock Institutional Trust Company, National Association	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	7,587	7,587
BlackRock Advisors, LLC	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	8,218	8,218
BlackRock Advisors (UK) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	30,574	30,574
BlackRock Advisors (UK) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	20,965	20,965
BlackRock Investment Management (UK) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	22,075	22,075
BlackRock Financial Management, Inc.	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	5,689	5,689
BlackRock (Singapore) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	27,241	27,241
BlackRock Asset Management Canada Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	9,503	9,503
BlackRock Asset Management Canada Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	41,239	41,239
BlackRock Financial Management, Inc.	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	3,834	3,834
BlackRock Advisors (UK) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	6,924	6,924
BlackRock Advisors (UK) Limited	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	716	716
BlackRock Financial Management, Inc.	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	3,554	3,554
BlackRock Financial Management, Inc.	12-Dec-22	yes	6.14	on mkt buy	AUD	ord	3,980	3,980
BlackRock Fund Advisors	12-Dec-22	no	n/a	in specie	AUD	ord	22,092	22,092
BlackRock Investment Management, LLC	12-Dec-22	no	n/a	collateral transfer	AUD	ord	325,940	325,940
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.25	on mkt buy	AUD	ord	637	637
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.25	on mkt buy	AUD	ord	24,134	24,134
BlackRock Fund Advisors	13-Dec-22	no	n/a	in specie	AUD	ord	6,134	6,134
BlackRock Fund Advisors	13-Dec-22	no	n/a	in specie	AUD	ord	1,705	1,705
BlackRock Advisors (UK) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	202	202
BlackRock Financial Management, Inc.	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	4,436	4,436
BlackRock Investment Management (Australia) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	80,800	80,800
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	11,828	11,828
BlackRock Investment Management (UK) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	8,345	8,345
BlackRock Advisors, LLC	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	39,909	39,909
BlackRock Advisors, LLC	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	7,691	7,691
BlackRock Asset Management Canada Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	5,073	5,073
BlackRock International Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	23,435	23,435
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	118,875	118,875
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	5,199	5,199
BlackRock Institutional Trust Company, National Association	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	6,102	6,102
BlackRock Advisors, LLC	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	5,973	5,973
BlackRock Advisors (UK) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	33,022	33,022
BlackRock Advisors (UK) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	22,774	22,774
BlackRock Investment Management (UK) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	8,088	8,088
BlackRock Financial Management, Inc.	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	4,904	4,904
BlackRock (Singapore) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	27,629	27,629
BlackRock Asset Management Canada Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	9,683	9,683
BlackRock Asset Management Canada Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	43,457	43,457
BlackRock Financial Management, Inc.	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	4,029	4,029
BlackRock Investment Management (Australia) Limited	13-Dec-22	yes	6.28	on mkt buy	AUD	ord	56,490	56,490
BlackRock Japan Co., Ltd.	13-Dec-22	no	n/a	collateral transfer	AUD	ord	7,998	7,998

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BlackRock (Singapore) Limited	13-Dec-22	no	n/a	collateral transfer	AUD	ord	45,027	45,027
BlackRock Advisors (UK) Limited	13-Dec-22	no	n/a	collateral transfer	AUD	ord	3,743,287	3,743,287
BlackRock Financial Management, Inc.	13-Dec-22	no	n/a	collateral transfer	AUD	ord	403,798	403,798
BlackRock Asset Management North Asia Limited	13-Dec-22	no	n/a	collateral transfer	AUD	ord	22,319	22,319
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.20	on mkt buy	AUD	ord	278	278
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.20	on mkt buy	AUD	ord	15,009	15,009
BlackRock Investment Management (Australia) Limited	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	19,147	19,147
BlackRock Investment Management (Australia) Limited	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	11,460	11,460
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	8,650	8,650
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	105,086	105,086
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	8,484	8,484
BlackRock Institutional Trust Company, National Association	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	76,305	76,305
BlackRock Advisors (UK) Limited	14-Dec-22	yes	6.19	on mkt buy	AUD	ord	800	800
BlackRock Japan Co., Ltd.	14-Dec-22	no	n/a	collateral transfer	AUD	ord	2,619	2,619
BlackRock Investment Management (UK) Limited	14-Dec-22	no	n/a	collateral transfer	AUD	ord	102,852	102,852
BlackRock Institutional Trust Company, National Association	15-Dec-22	yes	6.17	on mkt buy	AUD	ord	13,541	13,541
BlackRock Fund Advisors	15-Dec-22	no	n/a	in specie	AUD	ord	3,395	3,395
BlackRock Advisors (UK) Limited	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,299	2,299
BlackRock Investment Management, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	3,717	3,717
BlackRock Institutional Trust Company, National Association	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,975	2,975
BlackRock Institutional Trust Company, National Association	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,107	2,107
BlackRock Advisors, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	11,699	11,699
BlackRock Japan Co., Ltd.	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	46,515	46,515
BlackRock Japan Co., Ltd.	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	9,210	9,210
BlackRock Japan Co., Ltd.	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,796	2,796
BlackRock Japan Co., Ltd.	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	3,311	3,311
BlackRock Japan Co., Ltd.	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	6,081	6,081
BlackRock Advisors, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	37,704	37,704
BlackRock Advisors, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	164	164
BlackRock Investment Management (UK) Limited	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,353	2,353
BlackRock Investment Management, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	31,922	31,922
BlackRock Institutional Trust Company, National Association	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	2,127	2,127
BlackRock Investment Management (UK) Limited	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	27,658	27,658
BlackRock Investment Management, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	3,808	3,808
BlackRock Investment Management, LLC	15-Dec-22	yes	6.15	on mkt buy	AUD	ord	16,297	16,297
BlackRock Advisors (UK) Limited	15-Dec-22	no	n/a	collateral transfer	AUD	ord	212,295	212,295
BlackRock Financial Management, Inc.	15-Dec-22	no	n/a	collateral transfer	AUD	ord	311,111	311,111
BlackRock Institutional Trust Company, National Association	16-Dec-22	yes	6.18	on mkt buy	AUD	ord	2,956	2,956
BlackRock Fund Advisors	16-Dec-22	no	n/a	in specie	AUD	ord	2,875	2,875
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.20	on mkt buy	AUD	ord	8,034	8,034
BlackRock Fund Advisors	16-Dec-22	no	n/a	in specie	AUD	ord	3,896	3,896
BlackRock Advisors (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	156	156
BlackRock Institutional Trust Company, National Association	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	4,577	4,577
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	1,472	1,472
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	27,080	27,080
BlackRock Investment Management (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	3,666	3,666
BlackRock Advisors, LLC	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	5,994	5,994

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BlackRock Investment Management (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	33,338	33,338
BlackRock Investment Management (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	1,965	1,965
BlackRock International Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	10,918	10,918
BlackRock Institutional Trust Company, National Association	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	78,283	78,283
BlackRock Institutional Trust Company, National Association	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	2,418	2,418
BlackRock Fund Advisors	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	3,792	3,792
BlackRock Fund Advisors	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	206	206
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	68,760	68,760
BlackRock Advisors (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	20,708	20,708
BlackRock Advisors (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	13,465	13,465
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	3,722	3,722
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	202	202
BlackRock Investment Management (UK) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	54,064	54,064
BlackRock (Singapore) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	9,179	9,179
BlackRock Asset Management Canada Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	10,322	10,322
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	442	442
BlackRock Investment Management (Australia) Limited	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	8,150	8,150
BlackRock Fund Advisors	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	18,812	18,812
BlackRock Fund Advisors	16-Dec-22	yes	6.23	on mkt buy	AUD	ord	1,022	1,022
BlackRock Advisors (UK) Limited	16-Dec-22	no	n/a	collateral transfer	AUD	ord	179,068	179,068
BlackRock Investment Management (UK) Limited	16-Dec-22	no	n/a	collateral transfer	AUD	ord	55,146	55,146
BlackRock Fund Advisors	19-Dec-22	no	n/a	in specie	AUD	ord	1,179	1,179
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	2,645	2,645
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	31,147	31,147
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	11,084	11,084
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	10,803	10,803
BlackRock Advisors (UK) Limited	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	2,002	2,002
BlackRock Advisors (UK) Limited	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	1,078	1,078
BlackRock Advisors (UK) Limited	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	392	392
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	8,765	8,765
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	57,756	57,756
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	5,893	5,893
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	82,027	82,027
BlackRock Institutional Trust Company, National Association	19-Dec-22	yes	6.22	on mkt buy	AUD	ord	37,491	37,491
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.15	on mkt buy	AUD	ord	3,333	3,333
BlackRock Fund Advisors	20-Dec-22	no	n/a	in specie	AUD	ord	7,304	7,304
BlackRock Fund Advisors	20-Dec-22	no	n/a	in specie	AUD	ord	2,455	2,455
BlackRock Advisors (UK) Limited	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	1,800	1,800
BlackRock Advisors (UK) Limited	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	360	360
BlackRock Advisors (UK) Limited	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	1,078	1,078
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	5,717	5,717
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	43,682	43,682
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	4,246	4,246
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	57,249	57,249
BlackRock Institutional Trust Company, National Association	20-Dec-22	yes	6.07	on mkt buy	AUD	ord	27,650	27,650
BlackRock Japan Co., Ltd.	20-Dec-22	no	n/a	collateral transfer	AUD	ord	9	9

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BlackRock Advisors (UK) Limited	20-Dec-22	no	n/a	collateral transfer	AUD	ord	98,847	98,847
BlackRock Investment Management (UK) Limited	20-Dec-22	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Institutional Trust Company, National Association	21-Dec-22	yes	6.12	on mkt buy	AUD	ord	8,019	8,019
BlackRock Fund Advisors	21-Dec-22	no	n/a	in specie	AUD	ord	2,304	2,304
BlackRock Fund Advisors	21-Dec-22	no	n/a	in specie	AUD	ord	2,046	2,046
BlackRock Advisors (UK) Limited	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	2,172	2,172
BlackRock Advisors (UK) Limited	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	800	800
BlackRock Investment Management (UK) Limited	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	4,894	4,894
BlackRock Investment Management (UK) Limited	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	7,254	7,254
BlackRock Institutional Trust Company, National Association	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	1,409	1,409
BlackRock Advisors, LLC	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	169	169
BlackRock Investment Management (UK) Limited	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	18,970	18,970
BlackRock Financial Management, Inc.	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	1,639	1,639
BlackRock Investment Management, LLC	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	4,779	4,779
BlackRock Investment Management, LLC	21-Dec-22	yes	6.09	on mkt buy	AUD	ord	7,174	7,174
BlackRock (Singapore) Limited	21-Dec-22	no	n/a	collateral transfer	AUD	ord	22,095	22,095
BlackRock Financial Management, Inc.	21-Dec-22	no	n/a	collateral transfer	AUD	ord	12,731	12,731
BlackRock Institutional Trust Company, National Association	22-Dec-22	yes	6.14	on mkt buy	AUD	ord	2,545	2,545
BlackRock Advisors (UK) Limited	22-Dec-22	yes	6.11	on mkt buy	AUD	ord	10,587	10,587
BlackRock Fund Advisors	22-Dec-22	no	n/a	in specie	AUD	ord	1,308	1,308
BlackRock Fund Advisors	22-Dec-22	no	n/a	in specie	AUD	ord	2,180	2,180
BlackRock Fund Advisors	22-Dec-22	no	n/a	in specie	AUD	ord	2,900	2,900
BlackRock Investment Management (Australia) Limited	22-Dec-22	yes	6.16	on mkt buy	AUD	ord	11,460	11,460
BlackRock Advisors (UK) Limited	22-Dec-22	yes	6.16	on mkt buy	AUD	ord	101	101
BlackRock Advisors (UK) Limited	22-Dec-22	no	n/a	collateral transfer	AUD	ord	683,585	683,585
BlackRock Investment Management, LLC	22-Dec-22	no	n/a	collateral transfer	AUD	ord	78,942	78,942
BlackRock Investment Management (UK) Limited	22-Dec-22	no	n/a	collateral transfer	AUD	ord	258,647	258,647
BlackRock Institutional Trust Company, National Association	23-Dec-22	yes	6.12	on mkt buy	AUD	ord	3,379	3,379
BlackRock Institutional Trust Company, National Association	23-Dec-22	yes	6.11	on mkt buy	AUD	ord	41,207	41,207
BlackRock Institutional Trust Company, National Association	23-Dec-22	yes	6.11	on mkt buy	AUD	ord	5,667	5,667
BlackRock Institutional Trust Company, National Association	23-Dec-22	yes	6.11	on mkt buy	AUD	ord	5,593	5,593
BlackRock Advisors (UK) Limited	23-Dec-22	yes	6.11	on mkt buy	AUD	ord	2,471	2,471
BlackRock Advisors (UK) Limited	23-Dec-22	yes	6.11	on mkt buy	AUD	ord	1,765	1,765
BlackRock Advisors (UK) Limited	23-Dec-22	no	n/a	collateral transfer	AUD	ord	962,793	962,793
BlackRock Financial Management, Inc.	23-Dec-22	no	n/a	collateral transfer	AUD	ord	183	183
BlackRock Investment Management, LLC	23-Dec-22	no	n/a	collateral transfer	AUD	ord	1,604	1,604
APERIO GROUP LLC	23-Dec-22	no	n/a	in specie	AUD	ord	128,691	128,691
BlackRock Investment Management (UK) Limited	26-Dec-22	no	n/a	collateral transfer	AUD	ord	57,741	57,741
BlackRock (Singapore) Limited	27-Dec-22	no	n/a	collateral transfer	AUD	ord	1,170,895	1,170,895
BlackRock Financial Management, Inc.	27-Dec-22	no	n/a	collateral transfer	AUD	ord	1,772,090	1,772,090
BlackRock Investment Management (UK) Limited	27-Dec-22	no	n/a	collateral transfer	AUD	ord	872,493	872,493
BlackRock Japan Co., Ltd.	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	23,487	23,487
BlackRock Fund Advisors	28-Dec-22	no	n/a	in specie	AUD	ord	651	651
BlackRock Institutional Trust Company, National Association	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	704	704
BlackRock Institutional Trust Company, National Association	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	711	711
BlackRock Fund Advisors	28-Dec-22	no	n/a	in specie	AUD	ord	3,410	3,410
BlackRock Fund Advisors	28-Dec-22	no	n/a	in specie	AUD	ord	3,069	3,069
BlackRock Advisors (UK) Limited	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	308	308

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BlackRock Advisors (UK) Limited	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	308	308
BlackRock Advisors (UK) Limited	28-Dec-22	yes	6.08	on mkt buy	AUD	ord	648	648
BlackRock (Singapore) Limited	28-Dec-22	no	n/a	collateral transfer	AUD	ord	147,495	147,495
BlackRock Advisors (UK) Limited	28-Dec-22	no	n/a	collateral transfer	AUD	ord	5,428	5,428
BlackRock Financial Management, Inc.	28-Dec-22	no	n/a	collateral transfer	AUD	ord	18,357	18,357
BlackRock Institutional Trust Company, National Association	29-Dec-22	yes	5.97	on mkt buy	AUD	ord	2,878	2,878
BlackRock Advisors (UK) Limited	29-Dec-22	yes	5.94	on mkt buy	AUD	ord	4,258	4,258
BlackRock Advisors (UK) Limited	29-Dec-22	yes	5.94	on mkt buy	AUD	ord	158	158
BlackRock Advisors (UK) Limited	29-Dec-22	yes	5.94	on mkt buy	AUD	ord	324	324
BlackRock Advisors (UK) Limited	29-Dec-22	yes	5.94	on mkt buy	AUD	ord	486	486
BlackRock Advisors (UK) Limited	29-Dec-22	no	n/a	collateral transfer	AUD	ord	3,631,671	3,631,671
BlackRock Institutional Trust Company, National Association	30-Dec-22	yes	6.02	on mkt buy	AUD	ord	12,489	12,489
BlackRock Investment Management (Australia) Limited	30-Dec-22	yes	6.02	on mkt buy	AUD	ord	2,239	2,239
BlackRock Advisors (UK) Limited	30-Dec-22	yes	6.01	on mkt buy	AUD	ord	393	393
BlackRock Advisors (UK) Limited	30-Dec-22	yes	6.01	on mkt buy	AUD	ord	1,127	1,127
BlackRock Investment Management (Australia) Limited	30-Dec-22	yes	6.01	on mkt buy	AUD	ord	3,824	3,824
BlackRock Financial Management, Inc.	30-Dec-22	yes	6.01	on mkt buy	AUD	ord	2,635	2,635
APERIO GROUP LLC	30-Dec-22	no	n/a	in specie	AUD	ord	61,079	61,079
BlackRock Investment Management (UK) Limited	02-Jan-23	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock Institutional Trust Company, National Association	03-Jan-23	yes	5.93	on mkt buy	AUD	ord	8,283	8,283
BlackRock Investment Management (Australia) Limited	03-Jan-23	yes	5.94	on mkt buy	AUD	ord	9,550	9,550
BlackRock Institutional Trust Company, National Association	03-Jan-23	yes	5.94	on mkt buy	AUD	ord	11,750	11,750
BlackRock Institutional Trust Company, National Association	03-Jan-23	yes	5.94	on mkt buy	AUD	ord	109,569	109,569
BlackRock Advisors (UK) Limited	03-Jan-23	no	n/a	collateral transfer	AUD	ord	578,298	578,298
BlackRock Fund Advisors	04-Jan-23	no	n/a	in specie	AUD	ord	2,472	2,472
BlackRock Institutional Trust Company, National Association	04-Jan-23	yes	6.05	on mkt buy	AUD	ord	3,363	3,363
BlackRock Advisors (UK) Limited	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	3,854	3,854
BlackRock Advisors (UK) Limited	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	775	775
BlackRock Advisors (UK) Limited	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	202	202
BlackRock Advisors (UK) Limited	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	188	188
BlackRock Institutional Trust Company, National Association	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	14,982	14,982
BlackRock Institutional Trust Company, National Association	04-Jan-23	yes	6.07	on mkt buy	AUD	ord	18,638	18,638
BlackRock Advisors (UK) Limited	04-Jan-23	no	n/a	collateral transfer	AUD	ord	414,891	414,891
BlackRock Investment Management (UK) Limited	04-Jan-23	no	n/a	collateral transfer	AUD	ord	12	12
BlackRock Institutional Trust Company, National Association	05-Jan-23	yes	6.19	on mkt buy	AUD	ord	5,543	5,543
BlackRock Institutional Trust Company, National Association	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	509	509
BlackRock Institutional Trust Company, National Association	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	191	191
BlackRock Investment Management (UK) Limited	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	2,051	2,051
BlackRock Investment Management (UK) Limited	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	5,445	5,445
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	1,671	1,671
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	629	629
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	7,459	7,459
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	2,813	2,813
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	48	48
BlackRock Advisors, LLC	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	130	130
BlackRock Investment Management (UK) Limited	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	1,802	1,802
BlackRock Investment Management (UK) Limited	05-Jan-23	yes	6.21	on mkt buy	AUD	ord	4,778	4,778
BlackRock Institutional Trust Company, National Association	06-Jan-23	yes	6.30	on mkt buy	AUD	ord	1,747	1,747

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (UK) Limited	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	300,404	300,404
BlackRock Fund Advisors	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	20,124	20,124
BlackRock Investment Management (UK) Limited	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	21,137	21,137
BlackRock Investment Management (UK) Limited	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	63,352	63,352
BlackRock Financial Management, Inc.	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	23,410	23,410
BlackRock Financial Management, Inc.	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	33,441	33,441
BlackRock Financial Management, Inc.	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	4,851	4,851
BlackRock Institutional Trust Company, National Association	06-Jan-23	yes	6.29	on mkt buy	AUD	ord	4,973	4,973
BlackRock Advisors (UK) Limited	06-Jan-23	yes	6.28	on mkt buy	AUD	ord	6,846	6,846
BlackRock Advisors (UK) Limited	06-Jan-23	yes	6.28	on mkt buy	AUD	ord	2,763	2,763
BlackRock Advisors (UK) Limited	06-Jan-23	no	n/a	collateral transfer	AUD	ord	1,448,083	1,448,083
BlackRock Financial Management, Inc.	06-Jan-23	no	n/a	collateral transfer	AUD	ord	1,382,028	1,382,028
BlackRock Investment Management, LLC	06-Jan-23	no	n/a	collateral transfer	AUD	ord	127,084	127,084
BlackRock Investment Management (UK) Limited	06-Jan-23	no	n/a	collateral transfer	AUD	ord	1,428,150	1,428,150
BlackRock Fund Advisors	09-Jan-23	no	n/a	in specie	AUD	ord	1,798	1,798
BlackRock Investment Management (Australia) Limited	09-Jan-23	yes	6.40	on mkt buy	AUD	ord	19,080	19,080
BlackRock Advisors (UK) Limited	09-Jan-23	yes	6.40	on mkt buy	AUD	ord	4,586	4,586
BlackRock Advisors (UK) Limited	09-Jan-23	yes	6.40	on mkt buy	AUD	ord	1,730	1,730
BlackRock Fund Advisors	09-Jan-23	no	n/a	in specie	AUD	ord	25,564	25,564
BlackRock (Singapore) Limited	09-Jan-23	no	n/a	collateral transfer	AUD	ord	51,388	51,388
BlackRock Advisors (UK) Limited	09-Jan-23	no	n/a	collateral transfer	AUD	ord	556,732	556,732
BlackRock Investment Management (UK) Limited	09-Jan-23	no	n/a	collateral transfer	AUD	ord	1,720,150	1,720,150
BlackRock Investment Management (UK) Limited	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	3,338	3,338
BlackRock Advisors, LLC	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	21,800	21,800
BlackRock Institutional Trust Company, National Association	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	1,706	1,706
BlackRock Institutional Trust Company, National Association	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	6,764	6,764
BlackRock Advisors, LLC	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	2,928	2,928
BlackRock International Limited	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	1,793	1,793
BlackRock Investment Management, LLC	10-Jan-23	yes	6.34	on mkt buy	AUD	ord	1,869	1,869
BlackRock Advisors (UK) Limited	10-Jan-23	yes	6.33	on mkt buy	AUD	ord	12,774	12,774
BlackRock Advisors (UK) Limited	10-Jan-23	yes	6.33	on mkt buy	AUD	ord	300	300
BlackRock Financial Management, Inc.	10-Jan-23	yes	6.33	on mkt buy	AUD	ord	6,224	6,224
BlackRock Institutional Trust Company, National Association	11-Jan-23	yes	6.40	on mkt buy	AUD	ord	330	330
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	9,315	9,315
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	1,848	1,848
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	6,210	6,210
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	6,210	6,210
BlackRock Advisors (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	6,387	6,387
BlackRock Advisors (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	486	486
BlackRock Advisors (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	1,290	1,290
BlackRock Advisors (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	774	774
BlackRock Investment Management (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	49,733	49,733
BlackRock Investment Management (UK) Limited	11-Jan-23	yes	6.38	on mkt buy	AUD	ord	86,542	86,542
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	6,555	6,555
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	29,216	29,216
BlackRock Fund Advisors	11-Jan-23	no	n/a	in specie	AUD	ord	6,210	6,210
BlackRock Institutional Trust Company, National Association	12-Jan-23	yes	6.43	on mkt buy	AUD	ord	4,517	4,517
BlackRock Fund Advisors	12-Jan-23	no	n/a	in specie	AUD	ord	13,110	13,110
BlackRock Fund Advisors	12-Jan-23	no	n/a	in specie	AUD	ord	9,261	9,261
BlackRock Fund Advisors	12-Jan-23	no	n/a	in specie	AUD	ord	6,174	6,174
BlackRock Fund Advisors	12-Jan-23	no	n/a	in specie	AUD	ord	9,261	9,261
BlackRock Investment Management (Australia) Limited	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	36,271	36,271
BlackRock Advisors (UK) Limited	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	1,384	1,384
BlackRock Institutional Trust Company, National Association	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	1,683	1,683

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (UK) Limited	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	387	387
BlackRock Advisors, LLC	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	3,986	3,986
BlackRock Advisors, LLC	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	14,570	14,570
BlackRock Advisors, LLC	12-Jan-23	yes	6.42	on mkt buy	AUD	ord	152	152
BlackRock Japan Co., Ltd.	12-Jan-23	no	n/a	collateral transfer	AUD	ord	48,477	48,477
BlackRock (Singapore) Limited	12-Jan-23	no	n/a	collateral transfer	AUD	ord	13,970	13,970
BlackRock Advisors (UK) Limited	12-Jan-23	no	n/a	collateral transfer	AUD	ord	61,014	61,014
BlackRock Financial Management, Inc.	12-Jan-23	no	n/a	collateral transfer	AUD	ord	581,906	581,906
BlackRock Investment Management (UK) Limited	12-Jan-23	no	n/a	collateral transfer	AUD	ord	454,651	454,651
BlackRock Institutional Trust Company, National Association	13-Jan-23	yes	6.49	on mkt buy	AUD	ord	9,635	9,635
BlackRock Fund Advisors	13-Jan-23	no	n/a	in specie	AUD	ord	10,956	10,956
BlackRock Fund Advisors	13-Jan-23	no	n/a	in specie	AUD	ord	3,652	3,652
BlackRock Fund Advisors	13-Jan-23	no	n/a	in specie	AUD	ord	25,564	25,564
BlackRock Advisors (UK) Limited	13-Jan-23	yes	6.47	on mkt buy	AUD	ord	972	972
BlackRock Fund Advisors	13-Jan-23	no	n/a	in specie	AUD	ord	18,260	18,260
BlackRock Fund Advisors	13-Jan-23	no	n/a	in specie	AUD	ord	43,824	43,824
BlackRock (Singapore) Limited	13-Jan-23	no	n/a	collateral transfer	AUD	ord	502,618	502,618
BlackRock Advisors (UK) Limited	13-Jan-23	no	n/a	collateral transfer	AUD	ord	405,295	405,295
BlackRock Investment Management (UK) Limited	13-Jan-23	no	n/a	collateral transfer	AUD	ord	71,869	71,869
APERIO GROUP LLC	13-Jan-23	no	n/a	in specie	AUD	ord	61,079	61,079
BlackRock Institutional Trust Company, National Association	16-Jan-23	yes	6.57	on mkt buy	AUD	ord	10,573	10,573
BlackRock Advisors (UK) Limited	16-Jan-23	yes	6.56	on mkt buy	AUD	ord	8,516	8,516
BlackRock Investment Management (UK) Limited	16-Jan-23	yes	6.56	on mkt buy	AUD	ord	2,941	2,941
BlackRock Investment Management, LLC	16-Jan-23	no	n/a	collateral transfer	AUD	ord	707,048	707,048
BlackRock Fund Advisors	17-Jan-23	no	n/a	in specie	AUD	ord	3,972	3,972
BlackRock Fund Advisors	17-Jan-23	no	n/a	in specie	AUD	ord	7,304	7,304
BlackRock Fund Advisors	17-Jan-23	no	n/a	in specie	AUD	ord	3,652	3,652
BlackRock Institutional Trust Company, National Association	17-Jan-23	yes	6.55	on mkt buy	AUD	ord	15,366	15,366
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.56	on mkt buy	AUD	ord	18,224	18,224
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	2,278	2,278
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	706	706
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	2,118	2,118
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	2,254	2,254
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	3,381	3,381
BlackRock Advisors (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	166	166
BlackRock Investment Management (UK) Limited	17-Jan-23	yes	6.54	on mkt buy	AUD	ord	1,759	1,759
BlackRock Japan Co., Ltd.	17-Jan-23	no	n/a	collateral transfer	AUD	ord	2,246	2,246
BlackRock (Singapore) Limited	17-Jan-23	no	n/a	collateral transfer	AUD	ord	28,909	28,909
BlackRock Advisors (UK) Limited	17-Jan-23	no	n/a	collateral transfer	AUD	ord	546,841	546,841
BlackRock Financial Management, Inc.	17-Jan-23	no	n/a	collateral transfer	AUD	ord	2,766	2,766
BlackRock Investment Management, LLC	17-Jan-23	no	n/a	collateral transfer	AUD	ord	53,567	53,567
BlackRock Investment Management (UK) Limited	17-Jan-23	no	n/a	collateral transfer	AUD	ord	108,045	108,045
BlackRock Asset Management North Asia Limited	17-Jan-23	no	n/a	collateral transfer	AUD	ord	9,276	9,276
BlackRock Institutional Trust Company, National Association	18-Jan-23	yes	6.61	on mkt buy	AUD	ord	19,006	19,006
BlackRock Investment Management (Australia) Limited	18-Jan-23	yes	6.62	on mkt buy	AUD	ord	3,977	3,977
BlackRock Advisors (UK) Limited	18-Jan-23	yes	6.57	on mkt buy	AUD	ord	4,542	4,542
BlackRock Advisors (UK) Limited	18-Jan-23	yes	6.57	on mkt buy	AUD	ord	4,258	4,258
BlackRock Advisors (UK) Limited	18-Jan-23	yes	6.57	on mkt buy	AUD	ord	960	960
BlackRock Advisors (UK) Limited	18-Jan-23	yes	6.57	on mkt buy	AUD	ord	198	198
BlackRock Japan Co., Ltd.	18-Jan-23	no	n/a	collateral transfer	AUD	ord	18	18

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock (Singapore) Limited	18-Jan-23	no	n/a	collateral transfer	AUD	ord	801	801
BlackRock Advisors (UK) Limited	18-Jan-23	no	n/a	collateral transfer	AUD	ord	3,832,219	3,832,219
BlackRock Institutional Trust Company, National Association	19-Jan-23	yes	6.55	on mkt buy	AUD	ord	17,597	17,597
BlackRock Institutional Trust Company, National Association	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	2,105	2,105
BlackRock Advisors, LLC	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	6,520	6,520
BlackRock Advisors, LLC	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	22,858	22,858
BlackRock Advisors, LLC	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	443	443
BlackRock Investment Management, LLC	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	7,009	7,009
BlackRock Investment Management, LLC	19-Jan-23	yes	6.54	on mkt buy	AUD	ord	15,654	15,654
BlackRock (Singapore) Limited	19-Jan-23	no	n/a	collateral transfer	AUD	ord	1,393	1,393
BlackRock Financial Management, Inc.	19-Jan-23	no	n/a	collateral transfer	AUD	ord	196	196
BlackRock Investment Management, LLC	19-Jan-23	no	n/a	collateral transfer	AUD	ord	29,540	29,540
BlackRock Investment Management (UK) Limited	19-Jan-23	no	n/a	collateral transfer	AUD	ord	7,558	7,558
APERIO GROUP LLC	19-Jan-23	no	n/a	in specie	AUD	ord	19,029	19,029
BlackRock Institutional Trust Company, National Association	20-Jan-23	yes	6.55	on mkt buy	AUD	ord	7,520	7,520
BlackRock Investment Management (Australia) Limited	20-Jan-23	yes	6.54	on mkt buy	AUD	ord	777	777
BlackRock Fund Advisors	20-Jan-23	no	n/a	in specie	AUD	ord	2,860	2,860
BlackRock Fund Advisors	20-Jan-23	no	n/a	in specie	AUD	ord	34,320	34,320
BlackRock Institutional Trust Company, National Association	20-Jan-23	yes	6.56	on mkt buy	AUD	ord	5,911	5,911
BlackRock Investment Management (UK) Limited	20-Jan-23	yes	6.56	on mkt buy	AUD	ord	78,230	78,230
BlackRock Institutional Trust Company, National Association	20-Jan-23	yes	6.56	on mkt buy	AUD	ord	13,875	13,875
BlackRock Investment Management, LLC	20-Jan-23	no	n/a	collateral transfer	AUD	ord	79,296	79,296
BlackRock Investment Management (UK) Limited	20-Jan-23	no	n/a	collateral transfer	AUD	ord	12,619	12,619
BlackRock Fund Advisors	23-Jan-23	no	n/a	in specie	AUD	ord	130	130
BlackRock Fund Advisors	23-Jan-23	no	n/a	in specie	AUD	ord	12,892	12,892
BlackRock Institutional Trust Company, National Association	23-Jan-23	yes	6.58	on mkt buy	AUD	ord	5,423	5,423
BlackRock Investment Management (Australia) Limited	23-Jan-23	yes	6.56	on mkt buy	AUD	ord	7,636	7,636
BlackRock Advisors (UK) Limited	23-Jan-23	yes	6.56	on mkt buy	AUD	ord	1,715	1,715
BlackRock Advisors (UK) Limited	23-Jan-23	yes	6.56	on mkt buy	AUD	ord	948	948
BlackRock Financial Management, Inc.	23-Jan-23	yes	6.56	on mkt buy	AUD	ord	2,811	2,811
BlackRock Japan Co., Ltd.	23-Jan-23	no	n/a	collateral transfer	AUD	ord	450	450
BlackRock Financial Management, Inc.	23-Jan-23	no	n/a	collateral transfer	AUD	ord	67	67
BlackRock Investment Management (UK) Limited	23-Jan-23	no	n/a	collateral transfer	AUD	ord	357,442	357,442
BlackRock Institutional Trust Company, National Association	24-Jan-23	yes	6.43	on mkt buy	AUD	ord	3,417	3,417
BlackRock Advisors (UK) Limited	24-Jan-23	yes	6.41	on mkt buy	AUD	ord	95	95
BlackRock Advisors, LLC	24-Jan-23	yes	6.41	on mkt buy	AUD	ord	36,091	36,091
BlackRock Advisors, LLC	24-Jan-23	yes	6.41	on mkt buy	AUD	ord	6,214	6,214
BlackRock Asset Management Canada Limited	24-Jan-23	yes	6.41	on mkt buy	AUD	ord	7,794	7,794
BlackRock Asset Management Canada Limited	24-Jan-23	yes	6.41	on mkt buy	AUD	ord	35,154	35,154
BlackRock (Singapore) Limited	24-Jan-23	no	n/a	collateral transfer	AUD	ord	1,908	1,908
BlackRock Advisors (UK) Limited	24-Jan-23	no	n/a	collateral transfer	AUD	ord	5	5
APERIO GROUP LLC	24-Jan-23	no	n/a	in specie	AUD	ord	5,319	5,319
BlackRock Fund Advisors	25-Jan-23	no	n/a	in specie	AUD	ord	1,158	1,158
BlackRock Fund Advisors	25-Jan-23	no	n/a	in specie	AUD	ord	1,026	1,026
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	558	558
BlackRock Advisors (UK) Limited	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	6,813	6,813
BlackRock Advisors (UK) Limited	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	616	616
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	5,263	5,263

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	48,548	48,548
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	5,626	5,626
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	48,002	48,002
BlackRock Institutional Trust Company, National Association	25-Jan-23	yes	6.47	on mkt buy	AUD	ord	22,025	22,025
BlackRock Japan Co., Ltd.	25-Jan-23	no	n/a	collateral transfer	AUD	ord	554	554
BlackRock (Singapore) Limited	25-Jan-23	no	n/a	collateral transfer	AUD	ord	3,313	3,313
BlackRock Advisors (UK) Limited	25-Jan-23	no	n/a	collateral transfer	AUD	ord	3,268,578	3,268,578
BlackRock Financial Management, Inc.	25-Jan-23	no	n/a	collateral transfer	AUD	ord	624	624
BlackRock Investment Management, LLC	25-Jan-23	no	n/a	collateral transfer	AUD	ord	3,686,514	3,686,514
BlackRock Investment Management (UK) Limited	25-Jan-23	no	n/a	collateral transfer	AUD	ord	635,172	635,172
BlackRock Asset Management North Asia Limited	25-Jan-23	no	n/a	collateral transfer	AUD	ord	1,070	1,070
BlackRock Fund Advisors	26-Jan-23	no	n/a	in specie	AUD	ord	195	195
BlackRock Fund Advisors	26-Jan-23	no	n/a	in specie	AUD	ord	6,555	6,555
BlackRock (Singapore) Limited	26-Jan-23	no	n/a	collateral transfer	AUD	ord	373	373
BlackRock Financial Management, Inc.	26-Jan-23	no	n/a	collateral transfer	AUD	ord	492	492
BlackRock Asset Management North Asia Limited	26-Jan-23	no	n/a	collateral transfer	AUD	ord	280	280
BlackRock Investment Management (Australia) Limited	27-Jan-23	yes	6.50	on mkt buy	AUD	ord	1,878	1,878
BlackRock Fund Advisors	27-Jan-23	no	n/a	in specie	AUD	ord	32,868	32,868
BlackRock Fund Advisors	27-Jan-23	no	n/a	in specie	AUD	ord	11,440	11,440
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	4,534	4,534
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	42,580	42,580
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	770	770
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	948	948
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	520	520
BlackRock Advisors (UK) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	928	928
BlackRock Investment Management (Australia) Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	17,373	17,373
BlackRock Advisors, LLC	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	11,453	11,453
BlackRock Asset Management Canada Limited	27-Jan-23	yes	6.49	on mkt buy	AUD	ord	8,433	8,433
BlackRock Japan Co., Ltd.	27-Jan-23	no	n/a	collateral transfer	AUD	ord	17,473	17,473
BlackRock (Singapore) Limited	27-Jan-23	no	n/a	collateral transfer	AUD	ord	224,878	224,878
BlackRock Advisors (UK) Limited	27-Jan-23	no	n/a	collateral transfer	AUD	ord	1,557,960	1,557,960
BlackRock Financial Management, Inc.	27-Jan-23	no	n/a	collateral transfer	AUD	ord	481,527	481,527
BlackRock Investment Management (UK) Limited	27-Jan-23	no	n/a	collateral transfer	AUD	ord	2,288,229	2,288,229
BlackRock Asset Management North Asia Limited	27-Jan-23	no	n/a	collateral transfer	AUD	ord	56,540	56,540
BlackRock Investment Management, LLC	30-Jan-23	no	n/a	in specie	AUD	ord	180,927	180,927
BlackRock Investment Management, LLC	30-Jan-23	no	n/a	in specie	AUD	ord	69,424	69,424
BlackRock Fund Advisors	30-Jan-23	no	n/a	in specie	AUD	ord	7,304	7,304
BlackRock Fund Advisors	30-Jan-23	no	n/a	in specie	AUD	ord	6,555	6,555
BlackRock Fund Advisors	30-Jan-23	no	n/a	in specie	AUD	ord	6,555	6,555
BlackRock Advisors (UK) Limited	30-Jan-23	yes	6.38	on mkt buy	AUD	ord	780	780
BlackRock Institutional Trust Company, National Association	30-Jan-23	yes	6.38	on mkt buy	AUD	ord	16,668	16,668
BlackRock Fund Advisors	30-Jan-23	yes	6.38	on mkt buy	AUD	ord	32,409	32,409
BlackRock Japan Co., Ltd.	30-Jan-23	no	n/a	collateral transfer	AUD	ord	116,907	116,907
BlackRock Advisors (UK) Limited	30-Jan-23	no	n/a	collateral transfer	AUD	ord	2,640,380	2,640,380
BlackRock Investment Management, LLC	30-Jan-23	no	n/a	collateral transfer	AUD	ord	2,405,032	2,405,032
BlackRock Investment Management (UK) Limited	30-Jan-23	no	n/a	collateral transfer	AUD	ord	2,604,352	2,604,352

This is Annexure C of 1 page referred to in form 603 Notice of initial substantial shareholder

01-Feb-23

**Shawna Reese,
Authorised Signatory**

Date

7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
BlackRock Group	
BlackRock Inc.	55 East 52nd Street New York NY 10055 USA
BlackRock (Singapore) Limited	20 Anson Road #18-01 079912 Singapore
BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Advisors, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Asset Management North Asia Limited	15/F, 16/F, 17/F Citibank Tower & 17/F ICBC Tower, 3 Garden Road, Central, Hong Kong
BlackRock Financial Management, Inc.	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Fund Advisors	400 Howard Street San Francisco, CA, 94105 United States
BlackRock Institutional Trust Company, National Association	1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA)
BlackRock International Limited	Exchange Place One, 1 Semple Street, Edinburgh, EH3 8BL, United Kingdom (Scotland, United Kingdom)
BlackRock Investment Management (Australia) Limited	Level 37 Chifley Tower, 2 Chifley Square, Sydney NSW 2000 Australia
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Japan Co., Ltd.	Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-8217 (Japan)
APERIO GROUP LLC	2710 Gateway Oaks Drive, Suite 150N, Sacramento, CA 95833-3505

This is Annexure D of 3 pages referred to in form 603 Notice of initial substantial shareholder.

Shawna Reese, Authorised Signatory
Date

01-Feb-23

Type of agreement:	Global Master Securities Lending Agreement, Overseas Securities Lending Agreement or Master Securities Lending Agreement.
Parties to agreement:	The relevant counterparty as described in the lists of Securities Lending Agreements entered into by BlackRock Advisors Limited and BlackRock Institutional Trust Corporation, N.A., respectively, on the following page.
Transfer date:	The date of the relevant transaction identified as a collateral transfer referred to in Annexure B.
Holder of voting rights:	The Borrower.
Are there any restrictions on voting rights? If yes, detail	Yes. Collateral is held through a tripartite structure under which the triparty collateral manager will not act in respect of voting rights unless it receives instructions to do so from the Borrower.
Scheduled return date (if any):	The date of the relevant transaction referred to in Annexure B.
Does the borrower have the right to return early? If yes, detail	Yes. The Borrower is entitled to substitute existing collateral with other equities at any time.
Does the lender have the right to recall early? If yes, detail	Yes, at notice.
Will the securities be returned on settlement? If yes, detail any exceptions	Yes.

A copy of the relevant agreement will be provided to QANTAS AIRWAYS LTD or the Australian Securities and Investments Commission upon request.

Securities Lending Agreements

Agreements entered into between BlackRock Advisors Limited and each of the following counterparties:

- (a) Bank of Nova Scotia, London Branch GMSLA, 25 August 2011
- (b) Barclays Bank plc GMSLA, 9 April 2104
- (c) Barclays Capital Securities Limited GMSLA, 2 December 2012
- (d) BNP Paribas Arbitrage GMSLA, 30 May 2013
- (e) BNP Paribas GMSLA, 8 May 2007
- (f) Citigroup Global Markets Limited GMSLA, 18 January 2007
- (g) Credit Suisse AG, Dublin Branch GMSLA, 28 September 2015
- (h) Credit Suisse International GMSLA, 10 March 2014
- (i) Credit Suisse Securities (Europe) Limited GMSLA, 26 August 2015
- (j) Deutsche Bank AG, London Branch GMSLA, 25 August 2017
- (k) Goldman Sachs International GMSLA, 2nd August 2022
- (l) HSBC Bank plc GMSLA GMSLA, 27 October 2016
- (m) ING Bank N.V. GMSLA, 12 November 2018
- (n) J.P. Morgan Securities plc GMSLA, 12 July 2011
- (o) Macquarie Bank Limited GMSLA, 18 August 2014
- (p) Merrill Lynch International GMSLA, 3 February 2020
- (q) Morgan Stanley & Co International plc GMSLA, 9 June 2021
- (r) Natixis SA GMSLA, 29 January 2018
- (s) Nomura International plc GMSLA, 2 November 2011
- (t) Royal Bank of Canada Europe Limited GMSLA, 3 February 2017
- (u) Royal Bank of Scotland plc (renamed to Natwest Markets Plc) GMSLA, 1 April 2011
- (v) Santander UK Plc GMSLA, 25 January 2019
- (w) Societe Generale GMSLA, 27 January 2012
- (x) UBS AG GMSLA, 28 April 2016
- (y) UBS Europe SE GMSLA, 1 February 2019
- (z) BAL/Banco Santander, S.A. GMSLA, 30 April 2019
- (aa) Canadian Imperial Bank of Commerce, London Branch GMSLA, 21 June 2019
- (bb) Zürcher Kantonalbank GMSLA, 30 October 2019
- (cc) The Hongkong and Shanghai Banking Corporation Limited GMSLA, 7 February 2020
- (dd) BNP Paribas Prime Brokerage International Limited GMSLA 19 October 20201

Agreements entered into by BlackRock Institutional Trust Corporation, N.A. and each of the following counterparties:

- a. Bank of Nova Scotia GMSLA, December 6, 2016
- b. Barclays Bank plc GMSLA, April 24, 2017
- c. Barclays Capital Securities Limited GMSLA, March 15, 2017
- d. BNP Paribas Arbitrage GMSLA, June 5, 2017
- e. Citigroup Global Markets Limited GMSLA, June 3, 2015
- f. Credit Suisse AG, Dublin Branch GMSLA, October 14, 2015
- g. Credit Suisse International GMSLA, April 4, 2020
- h. Credit Suisse Securities (Europe) Limited GMSLA, October 2, 2015
- i. Deutsche Bank AG, London Branch GMSLA, June 7, 2017
- j. Goldman Sachs International OSLA April 1, 2004
- k. HSBC Bank plc GMSLA, February 12, 2013
- l. J.P. Morgan Securities plc GMSLA, October 4, 2016
- m. J.P. Morgan Securities plc GMSLA (Pledge), July 1, 2020
- n. Macquarie Bank Limited GMSLA, October 3, 2016
- o. Merrill Lynch International GMSLA, February 19, 2014
- p. Morgan Stanley & Co International plc GMSLA, November 16, 2021
- q. Nomura International plc GMSLA 03 August 2018
- r. Societe Generale GMSLA, September 28, 2016
- s. UBS AG GMSLA, May 26, 2016
- t. UBS AG GMSLA (Pledge), June 2, 2020
- u. UBS Europe SE GMSLA, 1 February 2019
- v. The Hongkong and Shanghai Banking Corporation Limited GMSLA, 22 February 2019
- w. RBC Europe Limited GMSLA, 4 February 2019
- x. ING BANK N.V. GMSLA, 27 February, 2019
- y. BANCO SANTANDER, S.A. GMSLA, 11 September, 2019
- z. Credit Suisse A.G., Singapore Branch GMSLA, 25 October, 2019
- aa. Natixis S.A. GMSLA, November 21, 2019.

- bb. CREDIT SUISSE INTERNATIONAL GMSLA, 4 April 2020
- cc. BNP Paribas Prime Brokerage International Limited GMSLA 22 November 2021

These counterparties do not pledge Australian equities:

- (a) Merrill Lynch, Pierce, Fenner Smith Incorporated

These counterparties do not have any business with us anymore although may have done previously:

- (a) Morgan Stanley Securities Limited (No Business) OSLA 15 March 1999

Royal Bank of Scotland N.V. **GMSLA, 12 October 2011 – No Business, superseded by Royal Bank of Scotland PLC**