

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme AMP LTDACN/ARSN 079 354 519**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 11 / 11 / 2019**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	172,802,046	172,802,046	5.02

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 Bradley Taylor

capacity Authorised Signatory*

sign here

date 13 / 11 / 2019

* 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.

13-Nov-19

Bradley Taylor,
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
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 172,534	172,534	subsidiary of BlackRock Inc.
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET LONDON		ORD 408,969	408,969	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 as investment manager or trustee.	SSB-STATE STREET SINGAPORE		ORD 43,962	43,962	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 as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD 5,004,477	5,004,477	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 as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 2,474,620	2,474,620	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 as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 802,120	802,120	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 as investment manager or trustee.	SSB-STATE STREET DUBLIN		ORD 8,312,928	8,312,928	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 as investment manager or trustee.	STATE STREET BANK, MUNICH, ZURICH BRANCH		ORD 58,727	58,727	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 as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 4,136	4,136	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 86,907	86,907	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 as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 1,963,110	1,963,110	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 as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 13,251	13,251	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 1,719,956	1,719,956	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 as investment manager or trustee.	RBC-ROYAL TRUST - TORONTO		ORD 17,934	17,934	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 Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD	166,381	166,381	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 as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD	597,280	597,280	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 as investment manager or trustee.	CITI-CITIBANK, HONG KONG		ORD	7,087	7,087	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 as investment manager or trustee.	HSBC-HSBC, HONG KONG		ORD	53,494	53,494	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 as investment manager or trustee.	Northern Trust Singapore		ORD	4,216	4,216	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 as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD	83,695	83,695	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 as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD	247,447	247,447	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 as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD	244,790	244,790	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD	333,192	333,192	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 as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD	423,276	423,276	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 as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD	23,575	23,575	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 as investment manager or trustee.	SSB-STATE STREET BANK & TRUST TORONTO		ORD	37,658	37,658	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 as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD	532,756	532,756	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 as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD	123,346	123,346	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 as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD	38,317,611	38,317,611	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 as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD	2,647,795	2,647,795	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD	45,159,215	45,159,215	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 as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD	359,340	359,340	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 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 as investment manager or trustee.	SSB-SSB BOSTON INSTITUTIONAL		ORD 58,273	58,273	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 as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 1,658,791	1,658,791	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 as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 36,868	36,868	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 as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD 7,371	7,371	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 101,498	101,498	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 as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 1,305,277	1,305,277	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 as investment manager or trustee.	HSBC-HSBC SYDNEY		ORD 4,360,646	4,360,646	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 as investment manager or trustee.	JPM-JPM CHASE - SYDNEY		ORD 711,788	711,788	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 as investment manager or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 5,392,611	5,392,611	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 (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	Northern Trust Singapore		ORD	3,022,106	3,022,106	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 as investment manager or trustee.	AP7		ORD	2,422,749	2,422,749	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 as investment manager or trustee.	BNP PARIBAS LUX		ORD	19,214	19,214	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 as investment manager or trustee.	BNYM-BANK OF NY BRUS		ORD	1,607,524	1,607,524	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 as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD	1,670,180	1,670,180	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 as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD	2,196,462	2,196,462	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 as investment manager or trustee.	CITI-CITIBANK, LONDON		ORD	5,388,984	5,388,984	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 as investment manager or trustee.	HSBC-HSBC - LONDON		ORD	3,957,705	3,957,705	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD	106,454	106,454	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 as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD 51,857	51,857	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 as investment manager or trustee.	KAS-KAS BANK - AMSTERDAM		ORD 335,315	335,315	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 as investment manager or trustee.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 151,297	151,297	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 as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 4,802,051	4,802,051	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 as investment manager or trustee.	SEB-SKANDINAVISKA ENSKILDA BANKEN		ORD 240,389	240,389	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 as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 126,611	126,611	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 as investment manager or trustee.	SSB-STATE STREET BANK LUXEMBOURG		ORD 766,702	766,702	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 as investment manager or trustee.	SSB-STATE STREET BANK, GERMANY		ORD 206,865	206,865	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 as investment manager or trustee.	SSB-STATE STREET LONDON		ORD 2,731,847	2,731,847	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 as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 146,815	146,815	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 as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 3,295,953	3,295,953	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 as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 1,964,644	1,964,644	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 1,851,105	1,851,105	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 as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 4,567	4,567	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 as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 63,651	63,651	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 as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 2,285,570	2,285,570	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 as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 41,207	41,207	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.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 1,751,449	1,751,449	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 (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 responsible entity.	JPM-JPM CHASE - SYDNEY		ORD	7,513,865	7,513,865	subsidiary of BlackRock Inc.

Annexure B

This is Annexure B of 9 pages referred to in form 603 Notice of initial substantial shareholder

13-Nov-19
Bradley Taylor,
Authorised Signatory
Date

5. Consideration

AMP LIMITED (AMP)								
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	12-Jul-19	yes	2.15	on mkt buy	AUD	ORD	39,792	39,792
BlackRock Institutional Trust Company, National Association	12-Jul-19	yes	2.15	on mkt buy	AUD	ORD	255,744	255,744
BlackRock Advisors (UK) Limited	12-Jul-19	yes	2.15	on mkt buy	AUD	ORD	8,460	8,460
BlackRock Fund Advisors	12-Jul-19	no	n/a	in specie	AUD	ORD	985	985
BlackRock Fund Advisors	12-Jul-19	no	n/a	in specie	AUD	ORD	5,912	5,912
BlackRock Investment Management (UK) Limited	12-Jul-19	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Institutional Trust Company, National Association	15-Jul-19	yes	1.81	on mkt buy	AUD	ORD	27,064	27,064
BlackRock Asset Management Canada Limited	15-Jul-19	yes	1.81	on mkt buy	AUD	ORD	67,312	67,312
BlackRock Advisors (UK) Limited	15-Jul-19	no	n/a	collateral transfer	AUD	ORD	553,902	553,902
BlackRock Advisors (UK) Limited	16-Jul-19	yes	1.78	on mkt buy	AUD	ORD	13,618	13,618
BlackRock Asset Management Canada Limited	16-Jul-19	yes	1.78	on mkt buy	AUD	ORD	18,196	18,196
BlackRock Fund Advisors	16-Jul-19	no	n/a	in specie	AUD	ORD	985	985
BlackRock Fund Advisors	16-Jul-19	no	n/a	in specie	AUD	ORD	22,475	22,475
BlackRock Investment Management (UK) Limited	17-Jul-19	yes	1.80	on mkt buy	AUD	ORD	23,442	23,442
BlackRock Advisors (UK) Limited	17-Jul-19	yes	1.80	on mkt buy	AUD	ORD	13,984	13,984
BlackRock Investment Management (Australia) Limited	17-Jul-19	yes	1.80	on mkt buy	AUD	ORD	62,759	62,759
BlackRock Advisors (UK) Limited	17-Jul-19	yes	1.80	on mkt buy	AUD	ORD	192,843	192,843
BlackRock Institutional Trust Company, National Association	17-Jul-19	yes	1.80	on mkt buy	AUD	ORD	97,039	97,039
BlackRock Advisors (UK) Limited	17-Jul-19	no	n/a	collateral transfer	AUD	ORD	223,574	223,574
BlackRock Investment Management (UK) Limited	17-Jul-19	no	n/a	collateral transfer	AUD	ORD	30	30
BlackRock Advisors (UK) Limited	18-Jul-19	yes	1.78	on mkt buy	AUD	ORD	6,851	6,851
BlackRock Advisors (UK) Limited	18-Jul-19	yes	1.78	on mkt buy	AUD	ORD	13,702	13,702
BlackRock Investment Management (UK) Limited	18-Jul-19	yes	1.78	on mkt buy	AUD	ORD	925,112	925,112
BlackRock Institutional Trust Company, National Association	18-Jul-19	yes	1.78	on mkt buy	AUD	ORD	122,082	122,082
BLACKROCK FINANCIAL MANAGEMENT, INC.	18-Jul-19	no	n/a	collateral transfer	AUD	ORD	46,473	46,473
BlackRock Investment Management (UK) Limited	18-Jul-19	no	n/a	collateral transfer	AUD	ORD	31,586	31,586
BlackRock Advisors (UK) Limited	19-Jul-19	yes	1.80	on mkt buy	AUD	ORD	89,089	89,089
BlackRock Fund Advisors	19-Jul-19	no	n/a	in specie	AUD	ORD	8,676	8,676
BlackRock Fund Advisors	19-Jul-19	no	n/a	in specie	AUD	ORD	39,786	39,786
BlackRock Advisors (UK) Limited	19-Jul-19	no	n/a	collateral transfer	AUD	ORD	1,967,338	1,967,338
BlackRock Advisors (UK) Limited	22-Jul-19	yes	1.78	on mkt buy	AUD	ORD	1,168	1,168
BlackRock Investment Management (UK) Limited	22-Jul-19	no	n/a	in specie	AUD	ORD	69,401	69,401
BlackRock Investment Management (UK) Limited	22-Jul-19	no	n/a	in specie	AUD	ORD	2,242,051	2,242,051
BlackRock Advisors (UK) Limited	22-Jul-19	no	n/a	collateral transfer	AUD	ORD	946,839	946,839
BlackRock Investment Management (UK) Limited	22-Jul-19	no	n/a	collateral transfer	AUD	ORD	30	30
BlackRock Advisors (UK) Limited	23-Jul-19	yes	1.75	on mkt buy	AUD	ORD	1,187	1,187
BlackRock Advisors (UK) Limited	23-Jul-19	yes	1.75	on mkt buy	AUD	ORD	673	673
BlackRock Advisors (UK) Limited	23-Jul-19	yes	1.75	on mkt buy	AUD	ORD	1,712	1,712
BlackRock Advisors (UK) Limited	24-Jul-19	yes	1.80	on mkt buy	AUD	ORD	6,916	6,916
BlackRock Investment Management (Australia) Limited	24-Jul-19	yes	1.80	on mkt buy	AUD	ORD	23,212	23,212

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			Cash	Non-cash	CCY			
BlackRock Japan Co., Ltd.	24-Jul-19	no	n/a	collateral transfer	AUD	ORD	186,882	186,882
BlackRock Advisors (UK) Limited	24-Jul-19	no	n/a	collateral transfer	AUD	ORD	144,595	144,595
BlackRock Fund Advisors	25-Jul-19	no	n/a	in specie	AUD	ORD	12,600	12,600
BlackRock Fund Advisors	25-Jul-19	no	n/a	in specie	AUD	ORD	53,048	53,048
BlackRock Fund Advisors	26-Jul-19	yes	1.81	on mkt buy	AUD	ORD	332,310	332,310
BlackRock Advisors (UK) Limited	26-Jul-19	yes	1.82	on mkt buy	AUD	ORD	11,104	11,104
BlackRock Advisors (UK) Limited	29-Jul-19	yes	1.83	on mkt buy	AUD	ORD	6,931	6,931
BlackRock Advisors (UK) Limited	29-Jul-19	yes	1.83	on mkt buy	AUD	ORD	6,864	6,864
BlackRock Advisors (UK) Limited	29-Jul-19	yes	1.83	on mkt buy	AUD	ORD	2,076	2,076
BlackRock Advisors (UK) Limited	29-Jul-19	yes	1.83	on mkt buy	AUD	ORD	5,536	5,536
BlackRock Advisors (UK) Limited	29-Jul-19	no	n/a	collateral transfer	AUD	ORD	1,047,126	1,047,126
BlackRock Institutional Trust Company, National Association	30-Jul-19	no	n/a	in specie	AUD	ORD	10,106	10,106
BlackRock Advisors (UK) Limited	30-Jul-19	yes	1.83	on mkt buy	AUD	ORD	1,412	1,412
BlackRock Advisors (UK) Limited	30-Jul-19	yes	1.83	on mkt buy	AUD	ORD	1,190	1,190
BLACKROCK FINANCIAL MANAGEMENT, INC.	30-Jul-19	no	n/a	collateral transfer	AUD	ORD	150,661	150,661
BlackRock Investment Management (UK) Limited	30-Jul-19	no	n/a	collateral transfer	AUD	ORD	355,918	355,918
BlackRock Advisors (UK) Limited	31-Jul-19	yes	1.79	on mkt buy	AUD	ORD	6,861	6,861
BlackRock Advisors (UK) Limited	31-Jul-19	yes	1.79	on mkt buy	AUD	ORD	7,155	7,155
BlackRock Japan Co., Ltd.	31-Jul-19	no	n/a	collateral transfer	AUD	ORD	22,329	22,329
BlackRock Investment Management, LLC	31-Jul-19	no	n/a	collateral transfer	AUD	ORD	138,359	138,359
BlackRock Asset Management North Asia Limited	31-Jul-19	no	n/a	collateral transfer	AUD	ORD	6,783	6,783
BlackRock Japan Co., Ltd.	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	188,509	188,509
BlackRock Advisors (UK) Limited	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	253,100	253,100
BLACKROCK FINANCIAL MANAGEMENT, INC.	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	142,239	142,239
BlackRock Investment Management, LLC	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	1,336,939	1,336,939
BlackRock Investment Management (UK) Limited	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	418,873	418,873
BlackRock Asset Management North Asia Limited	02-Aug-19	no	n/a	collateral transfer	AUD	ORD	64,561	64,561
BlackRock Institutional Trust Company, National Association	06-Aug-19	yes	1.75	on mkt buy	AUD	ORD	4,770	4,770
BlackRock Investment Management (Australia) Limited	06-Aug-19	yes	1.74	on mkt buy	AUD	ORD	23,212	23,212
BlackRock Advisors (UK) Limited	06-Aug-19	yes	1.74	on mkt buy	AUD	ORD	6,862	6,862
BlackRock Advisors (UK) Limited	06-Aug-19	no	n/a	collateral transfer	AUD	ORD	253,108	253,108
BlackRock Advisors (UK) Limited	07-Aug-19	yes	1.73	on mkt buy	AUD	ORD	439	439
BlackRock Advisors (UK) Limited	08-Aug-19	no	n/a	collateral transfer	AUD	ORD	2	2
BlackRock Investment Management (Australia) Limited	09-Aug-19	yes	1.93	on mkt buy	AUD	ORD	26,528	26,528
BlackRock Advisors (UK) Limited	09-Aug-19	yes	1.93	on mkt buy	AUD	ORD	21,471	21,471
BlackRock Investment Management (Australia) Limited	09-Aug-19	yes	1.93	on mkt buy	AUD	ORD	34,369	34,369
BlackRock Investment Management (UK) Limited	09-Aug-19	no	n/a	collateral transfer	AUD	ORD	39	39
BlackRock Advisors (UK) Limited	13-Aug-19	yes	1.81	on mkt buy	AUD	ORD	20,544	20,544
BlackRock Advisors (UK) Limited	13-Aug-19	yes	1.81	on mkt buy	AUD	ORD	6,848	6,848
BlackRock Advisors (UK) Limited	13-Aug-19	yes	1.81	on mkt buy	AUD	ORD	352,742	352,742
BlackRock Investment Management (UK) Limited	13-Aug-19	yes	1.81	on mkt buy	AUD	ORD	117,766	117,766
BlackRock Advisors (UK) Limited	13-Aug-19	no	n/a	collateral transfer	AUD	ORD	175,459	175,459
BlackRock Investment Management (Australia) Limited	14-Aug-19	yes	1.89	on mkt buy	AUD	ORD	77,625	77,625
BlackRock Investment Management (Australia) Limited	14-Aug-19	yes	1.90	on mkt buy	AUD	ORD	61,940	61,940
BlackRock Investment Management, LLC	14-Aug-19	yes	1.90	on mkt buy	AUD	ORD	11,234	11,234
BlackRock Investment Management (Australia) Limited	14-Aug-19	yes	1.90	on mkt buy	AUD	ORD	36,537	36,537
BlackRock Advisors (UK) Limited	14-Aug-19	no	n/a	collateral transfer	AUD	ORD	36,716	36,716

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BlackRock Investment Management (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	147,994	147,994
BlackRock Investment Management (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	127,110	127,110
BlackRock Investment Management (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	64,954	64,954
BlackRock Advisors (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	171,928	171,928
BlackRock (Netherlands) B.V.	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	21,027	21,027
BlackRock Fund Advisors	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	335,662	335,662
BlackRock Fund Advisors	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	580,382	580,382
BlackRock Advisors (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	358,731	358,731
BlackRock Advisors (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	127,467	127,467
BlackRock Advisors (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	63,900	63,900
BlackRock Institutional Trust Company, National Association	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	1,125,748	1,125,748
BlackRock Institutional Trust Company, National Association	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	317,710	317,710
BlackRock Investment Management (UK) Limited	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	318,525	318,525
BlackRock Fund Advisors	15-Aug-19	yes	1.83	on mkt buy	AUD	ORD	593,507	593,507
BlackRock Advisors (UK) Limited	15-Aug-19	no	n/a	collateral transfer	AUD	ORD	2	2
BlackRock International Limited	16-Aug-19	yes	1.82	on mkt buy	AUD	ORD	104,274	104,274
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	521,911	521,911
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	546,993	546,993
BlackRock Investment Management, LLC	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	92,929	92,929
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	363,379	363,379
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	297,242	297,242
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	166,867	166,867
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	211,246	211,246
BlackRock Investment Management (Australia) Limited	16-Aug-19	yes	1.73	on mkt buy	AUD	ORD	222,351	222,351
BlackRock Fund Advisors	16-Aug-19	no	n/a	in specie	AUD	ORD	8,637	8,637
BlackRock Advisors (UK) Limited	16-Aug-19	no	n/a	collateral transfer	AUD	ORD	536,780	536,780
BlackRock Investment Management (UK) Limited	19-Aug-19	yes	1.77	on mkt buy	AUD	ORD	48,342	48,342
BlackRock Asset Management Canada Limited	19-Aug-19	yes	1.77	on mkt buy	AUD	ORD	23,719	23,719
BlackRock Institutional Trust Company, National Association	19-Aug-19	yes	1.78	on mkt buy	AUD	ORD	1,121,534	1,121,534
BlackRock Institutional Trust Company, National Association	19-Aug-19	yes	1.78	on mkt buy	AUD	ORD	890,975	890,975
BlackRock Institutional Trust Company, National Association	19-Aug-19	yes	1.78	on mkt buy	AUD	ORD	373,206	373,206
BlackRock Asset Management Canada Limited	19-Aug-19	yes	1.78	on mkt buy	AUD	ORD	21,845	21,845
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Aug-19	no	n/a	collateral transfer	AUD	ORD	74,114	74,114
BlackRock Investment Management (UK) Limited	19-Aug-19	no	n/a	collateral transfer	AUD	ORD	10,465	10,465
BlackRock Investment Management, LLC	20-Aug-19	yes	1.77	on mkt buy	AUD	ORD	12,297	12,297
BlackRock Investment Management (Australia) Limited	20-Aug-19	yes	1.80	on mkt buy	AUD	ORD	30,552	30,552
BlackRock Investment Management (Australia) Limited	20-Aug-19	yes	1.80	on mkt buy	AUD	ORD	363	363
BlackRock Advisors (UK) Limited	20-Aug-19	no	n/a	collateral transfer	AUD	ORD	7,175	7,175
BlackRock Investment Management (Australia) Limited	21-Aug-19	yes	1.75	on mkt buy	AUD	ORD	237,894	237,894
BlackRock Fund Advisors	21-Aug-19	yes	1.77	on mkt buy	AUD	ORD	289,009	289,009
BlackRock Investment Management (Australia) Limited	21-Aug-19	yes	1.74	on mkt buy	AUD	ORD	11,457	11,457
BlackRock Advisors (UK) Limited	21-Aug-19	yes	1.74	on mkt buy	AUD	ORD	7,683	7,683
BlackRock Investment Management (Australia) Limited	23-Aug-19	yes	1.67	on mkt buy	AUD	ORD	19,095	19,095
BlackRock Investment Management (Australia) Limited	23-Aug-19	yes	1.67	on mkt buy	AUD	ORD	363	363
BLACKROCK FINANCIAL MANAGEMENT, INC.	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	14,865	14,865

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BlackRock Investment Management (UK) Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	1,398,937	1,398,937
BlackRock Advisors (UK) Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	11,450	11,450
BlackRock Advisors (UK) Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	34,356	34,356
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	11,240	11,240
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	33,721	33,721
BlackRock Asset Management Canada Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	64,013	64,013
BlackRock Asset Management Canada Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	192,030	192,030
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	6,710	6,710
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	2,235	2,235
BlackRock International Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	12,760	12,760
BlackRock International Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	38,285	38,285
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	155,969	155,969
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	51,987	51,987
BLACKROCK FINANCIAL MANAGEMENT, INC.	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	50,124	50,124
BLACKROCK FINANCIAL MANAGEMENT, INC.	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	16,707	16,707
BlackRock Investment Management (UK) Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	97,528	97,528
BlackRock Investment Management (UK) Limited	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	292,578	292,578
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	3,835	3,835
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	11,507	11,507
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	502,989	502,989
BlackRock Institutional Trust Company, National Association	27-Aug-19	yes	1.66	on mkt buy	AUD	ORD	1,508,945	1,508,945
BlackRock Fund Advisors	28-Aug-19	yes	1.64	on mkt buy	AUD	ORD	131,711	131,711
BlackRock Investment Management (Australia) Limited	28-Aug-19	yes	1.63	on mkt buy	AUD	ORD	101,396	101,396
BlackRock Fund Advisors	29-Aug-19	yes	1.67	on mkt buy	AUD	ORD	181,094	181,094
BlackRock Advisors (UK) Limited	29-Aug-19	no	n/a	collateral transfer	AUD	ORD	134,903	134,903
BlackRock Investment Management (Australia) Limited	30-Aug-19	yes	1.70	on mkt buy	AUD	ORD	726	726
BlackRock Advisors (UK) Limited	30-Aug-19	yes	1.70	on mkt buy	AUD	ORD	1,184	1,184
BlackRock Fund Advisors	30-Aug-19	no	n/a	in specie	AUD	ORD	18,975	18,975
BlackRock Investment Management (Australia) Limited	03-Sep-19	yes	1.62	on mkt buy	AUD	ORD	22,914	22,914
BlackRock Institutional Trust Company, National Association	03-Sep-19	yes	1.62	on mkt buy	AUD	ORD	331,602	331,602
BlackRock Advisors (UK) Limited	03-Sep-19	yes	1.62	on mkt buy	AUD	ORD	169	169
BlackRock Advisors (UK) Limited	03-Sep-19	yes	1.62	on mkt buy	AUD	ORD	2,368	2,368
BlackRock Advisors (UK) Limited	04-Sep-19	yes	1.65	on mkt buy	AUD	ORD	743	743
BlackRock Advisors (UK) Limited	04-Sep-19	yes	1.65	on mkt buy	AUD	ORD	440	440
BlackRock Fund Advisors	04-Sep-19	no	n/a	in specie	AUD	ORD	985	985
BlackRock Fund Advisors	04-Sep-19	no	n/a	in specie	AUD	ORD	181,056	181,056
BlackRock Fund Advisors	04-Sep-19	no	n/a	in specie	AUD	ORD	45,264	45,264
BlackRock Advisors (UK) Limited	05-Sep-19	yes	1.66	on mkt buy	AUD	ORD	1,782	1,782
BlackRock Fund Advisors	05-Sep-19	no	n/a	in specie	AUD	ORD	16,500	16,500
BlackRock Fund Advisors	05-Sep-19	no	n/a	in specie	AUD	ORD	9,900	9,900
BlackRock Fund Advisors	05-Sep-19	no	n/a	in specie	AUD	ORD	75,440	75,440
BlackRock Advisors (UK) Limited	05-Sep-19	no	n/a	collateral transfer	AUD	ORD	899,983	899,983
BlackRock Investment Management (Australia) Limited	06-Sep-19	yes	1.75	on mkt buy	AUD	ORD	45,828	45,828
BlackRock Advisors (UK) Limited	06-Sep-19	yes	1.75	on mkt buy	AUD	ORD	2,864	2,864
BlackRock Advisors (UK) Limited	06-Sep-19	yes	1.75	on mkt buy	AUD	ORD	440	440
BlackRock Asset Management Canada Limited	06-Sep-19	yes	1.75	on mkt buy	AUD	ORD	173,446	173,446
BlackRock Fund Advisors	06-Sep-19	no	n/a	in specie	AUD	ORD	13,200	13,200
BlackRock Asset Management Canada Limited	09-Sep-19	yes	1.80	on mkt buy	AUD	ORD	6,554	6,554
BlackRock Fund Advisors	09-Sep-19	no	n/a	in specie	AUD	ORD	45,264	45,264

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BlackRock Investment Management (UK) Limited	09-Sep-19	no	n/a	collateral transfer	AUD	ORD 1	1
BlackRock Investment Management (UK) Limited	10-Sep-19	yes	1.80	on mkt buy	AUD	ORD 6,281	6,281
BlackRock Advisors (UK) Limited	10-Sep-19	yes	1.80	on mkt buy	AUD	ORD 10,794	10,794
BlackRock Investment Management (Australia) Limited	10-Sep-19	yes	1.81	on mkt buy	AUD	ORD 30,552	30,552
BlackRock Advisors (UK) Limited	10-Sep-19	yes	1.81	on mkt buy	AUD	ORD 7,870	7,870
BlackRock Advisors (UK) Limited	10-Sep-19	yes	1.81	on mkt buy	AUD	ORD 2,142	2,142
BlackRock Advisors (UK) Limited	10-Sep-19	yes	1.81	on mkt buy	AUD	ORD 4,284	4,284
BlackRock Fund Advisors	10-Sep-19	no	n/a	in specie	AUD	ORD 14,850	14,850
BlackRock Investment Management (Australia) Limited	11-Sep-19	yes	1.85	on mkt buy	AUD	ORD 146,063	146,063
BlackRock Advisors (UK) Limited	11-Sep-19	yes	1.87	on mkt buy	AUD	ORD 2,856	2,856
BlackRock Fund Advisors	11-Sep-19	no	n/a	in specie	AUD	ORD 5,775	5,775
BlackRock Advisors (UK) Limited	11-Sep-19	no	n/a	collateral transfer	AUD	ORD 86,800	86,800
BlackRock Advisors (UK) Limited	12-Sep-19	yes	1.85	on mkt buy	AUD	ORD 3,560	3,560
BlackRock Advisors (UK) Limited	12-Sep-19	yes	1.85	on mkt buy	AUD	ORD 2,364	2,364
BLACKROCK FINANCIAL MANAGEMENT, INC.	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 104,607	104,607
BlackRock Investment Management (UK) Limited	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 1,886	1,886
BlackRock Advisors, LLC	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 202,073	202,073
BlackRock Institutional Trust Company, National Association	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 46,942	46,942
BlackRock Advisors, LLC	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 61,219	61,219
BlackRock International Limited	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 17,332	17,332
BLACKROCK FINANCIAL MANAGEMENT, INC.	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 65,062	65,062
BlackRock Investment Management, LLC	13-Sep-19	yes	1.84	on mkt buy	AUD	ORD 27,340	27,340
BlackRock Advisors (UK) Limited	13-Sep-19	yes	1.86	on mkt buy	AUD	ORD 10,710	10,710
BlackRock Fund Advisors	13-Sep-19	no	n/a	in specie	AUD	ORD 5,775	5,775
BlackRock Fund Advisors	13-Sep-19	no	n/a	in specie	AUD	ORD 4,010	4,010
BlackRock Japan Co., Ltd.	13-Sep-19	no	n/a	collateral transfer	AUD	ORD 4,742,000	4,742,000
BlackRock Fund Advisors	16-Sep-19	no	n/a	in specie	AUD	ORD 17,560	17,560
BlackRock Japan Co., Ltd.	16-Sep-19	no	n/a	collateral transfer	AUD	ORD 60,166	60,166
BlackRock Advisors (UK) Limited	16-Sep-19	no	n/a	collateral transfer	AUD	ORD 346,458	346,458
BlackRock Investment Management (UK) Limited	16-Sep-19	no	n/a	collateral transfer	AUD	ORD 3,638,576	3,638,576
BlackRock Advisors (UK) Limited	17-Sep-19	yes	1.84	on mkt buy	AUD	ORD 3,644	3,644
BlackRock Advisors (UK) Limited	17-Sep-19	yes	1.84	on mkt buy	AUD	ORD 3,644	3,644
BlackRock Advisors (UK) Limited	17-Sep-19	yes	1.84	on mkt buy	AUD	ORD 7,135	7,135
BlackRock Japan Co., Ltd.	17-Sep-19	no	n/a	collateral transfer	AUD	ORD 438,824	438,824
BlackRock Investment Management (Australia) Limited	18-Sep-19	yes	1.82	on mkt buy	AUD	ORD 121,933	121,933
BlackRock Investment Management (Australia) Limited	18-Sep-19	yes	1.83	on mkt buy	AUD	ORD 726	726
BlackRock Advisors (UK) Limited	18-Sep-19	yes	1.83	on mkt buy	AUD	ORD 3,540	3,540
BlackRock Advisors (UK) Limited	18-Sep-19	yes	1.83	on mkt buy	AUD	ORD 2,368	2,368
BlackRock Advisors (UK) Limited	18-Sep-19	no	n/a	collateral transfer	AUD	ORD 194,388	194,388
BlackRock Advisors (UK) Limited	19-Sep-19	yes	1.87	on mkt buy	AUD	ORD 2,848	2,848
BlackRock Advisors (UK) Limited	19-Sep-19	yes	1.87	on mkt buy	AUD	ORD 7,137	7,137
BlackRock Advisors (UK) Limited	19-Sep-19	yes	1.87	on mkt buy	AUD	ORD 40,340	40,340
BlackRock Japan Co., Ltd.	19-Sep-19	no	n/a	collateral transfer	AUD	ORD 5,240,658	5,240,658
BlackRock Investment Management (UK) Limited	19-Sep-19	no	n/a	collateral transfer	AUD	ORD 278,960	278,960
BlackRock Investment Management (Australia) Limited	20-Sep-19	yes	1.86	on mkt buy	AUD	ORD 26,733	26,733
BlackRock Advisors (UK) Limited	20-Sep-19	yes	1.86	on mkt buy	AUD	ORD 4,956	4,956
BlackRock Institutional Trust Company, National Association	20-Sep-19	yes	1.86	on mkt buy	AUD	ORD 14,196	14,196
BlackRock Investment Management (UK) Limited	20-Sep-19	yes	1.86	on mkt buy	AUD	ORD 197,043	197,043
BlackRock Advisors (UK) Limited	20-Sep-19	no	n/a	collateral transfer	AUD	ORD 5,225,780	5,225,780
BlackRock Fund Advisors	23-Sep-19	no	n/a	in specie	AUD	ORD 985	985
BlackRock Fund Advisors	23-Sep-19	no	n/a	in specie	AUD	ORD 30,176	30,176
BlackRock Advisors (UK) Limited	24-Sep-19	yes	1.87	on mkt buy	AUD	ORD 5,696	5,696
BlackRock Fund Advisors	24-Sep-19	no	n/a	in specie	AUD	ORD 7,912	7,912

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BlackRock Japan Co., Ltd.	24-Sep-19	no	n/a	collateral transfer	AUD	ORD 5,365,934	5,365,934
BlackRock Investment Management (Australia) Limited	25-Sep-19	yes	1.81	on mkt buy	AUD	ORD 98,856	98,856
BlackRock Investment Management (Australia) Limited	25-Sep-19	yes	1.81	on mkt buy	AUD	ORD 34,371	34,371
BlackRock Investment Management (UK) Limited	25-Sep-19	no	n/a	collateral transfer	AUD	ORD 5,516,725	5,516,725
BlackRock Investment Management (UK) Limited	26-Sep-19	yes	1.78	on mkt buy	AUD	ORD 68,996	68,996
BlackRock Japan Co., Ltd.	26-Sep-19	no	n/a	collateral transfer	AUD	ORD 5,516,758	5,516,758
BlackRock Institutional Trust Company, National Association	27-Sep-19	yes	1.80	on mkt buy	AUD	ORD 23,827	23,827
BlackRock Institutional Trust Company, National Association	27-Sep-19	yes	1.80	on mkt buy	AUD	ORD 33,099	33,099
BlackRock Fund Advisors	27-Sep-19	yes	1.80	on mkt buy	AUD	ORD 63,058	63,058
BlackRock Advisors (UK) Limited	27-Sep-19	no	n/a	collateral transfer	AUD	ORD 3,782,799	3,782,799
BlackRock Investment Management (UK) Limited	27-Sep-19	no	n/a	collateral transfer	AUD	ORD 2,111,959	2,111,959
BlackRock Fund Advisors	30-Sep-19	yes	1.82	on mkt buy	AUD	ORD 1,704,420	1,704,420
BlackRock Investment Management (Australia) Limited	30-Sep-19	yes	1.83	on mkt buy	AUD	ORD 38,190	38,190
BlackRock Investment Management (UK) Limited	30-Sep-19	yes	1.83	on mkt buy	AUD	ORD 20,400	20,400
BlackRock Advisors (UK) Limited	30-Sep-19	yes	1.83	on mkt buy	AUD	ORD 7,643	7,643
BLACKROCK FINANCIAL MANAGEMENT, INC.	30-Sep-19	yes	1.83	on mkt buy	AUD	ORD 13,580	13,580
BlackRock Japan Co., Ltd.	30-Sep-19	no	n/a	collateral transfer	AUD	ORD 2	2
BlackRock Advisors (UK) Limited	01-Oct-19	yes	1.81	on mkt buy	AUD	ORD 182,137	182,137
BlackRock Investment Management (Australia) Limited	01-Oct-19	yes	1.83	on mkt buy	AUD	ORD 3,819	3,819
BlackRock Advisors (UK) Limited	01-Oct-19	yes	1.83	on mkt buy	AUD	ORD 7,139	7,139
BlackRock Advisors (UK) Limited	01-Oct-19	no	n/a	collateral transfer	AUD	ORD 5,934,400	5,934,400
BlackRock Investment Management (Australia) Limited	02-Oct-19	yes	1.78	on mkt buy	AUD	ORD 64,775	64,775
BlackRock Advisors (UK) Limited	02-Oct-19	yes	1.77	on mkt buy	AUD	ORD 3,580	3,580
BlackRock Advisors (UK) Limited	02-Oct-19	yes	1.77	on mkt buy	AUD	ORD 3,580	3,580
BlackRock Fund Advisors	02-Oct-19	yes	1.77	on mkt buy	AUD	ORD 74,830	74,830
BlackRock Institutional Trust Company, National Association	02-Oct-19	yes	1.77	on mkt buy	AUD	ORD 32,891	32,891
BlackRock Japan Co., Ltd.	02-Oct-19	no	n/a	collateral transfer	AUD	ORD 8	8
BlackRock Fund Advisors	03-Oct-19	no	n/a	in specie	AUD	ORD 4,020	4,020
BlackRock Investment Management (Australia) Limited	04-Oct-19	yes	1.70	on mkt buy	AUD	ORD 106,932	106,932
BlackRock Advisors (UK) Limited	04-Oct-19	yes	1.70	on mkt buy	AUD	ORD 7,760	7,760
BlackRock Advisors, LLC	04-Oct-19	yes	1.70	on mkt buy	AUD	ORD 317,880	317,880
BlackRock Advisors (UK) Limited	07-Oct-19	yes	1.71	on mkt buy	AUD	ORD 2,856	2,856
BlackRock Advisors (UK) Limited	07-Oct-19	yes	1.71	on mkt buy	AUD	ORD 443	443
BlackRock Institutional Trust Company, National Association	07-Oct-19	yes	1.71	on mkt buy	AUD	ORD 185,767	185,767
BlackRock Fund Advisors	07-Oct-19	no	n/a	in specie	AUD	ORD 2,956	2,956
BlackRock Fund Advisors	07-Oct-19	no	n/a	in specie	AUD	ORD 21,758	21,758
BlackRock Advisors (UK) Limited	07-Oct-19	no	n/a	collateral transfer	AUD	ORD 141,735	141,735
BlackRock Investment Management (Australia) Limited	08-Oct-19	no	n/a	in specie	AUD	ORD 680,777	680,777
BlackRock Advisors, LLC	08-Oct-19	yes	1.68	on mkt buy	AUD	ORD 4,389	4,389
BlackRock Investment Management (Australia) Limited	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 87,837	87,837
BlackRock Japan Co., Ltd.	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 280,520	280,520
BlackRock Advisors (UK) Limited	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 6,390	6,390
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 333,154	333,154
BlackRock Advisors (UK) Limited	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 27,672	27,672
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	1.67	on mkt buy	AUD	ORD 114,377	114,377
BlackRock Fund Advisors	08-Oct-19	no	n/a	in specie	AUD	ORD 4,434	4,434
BlackRock Investment Management (Australia) Limited	09-Oct-19	yes	1.60	on mkt buy	AUD	ORD 138,843	138,843
BlackRock Institutional Trust Company, National Association	09-Oct-19	yes	1.60	on mkt buy	AUD	ORD 33,468	33,468

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	10-Oct-19	yes	1.59	on mkt buy	AUD	ORD	58,933	58,933
BlackRock Advisors (UK) Limited	10-Oct-19	yes	1.60	on mkt buy	AUD	ORD	15,552	15,552
BlackRock Advisors (UK) Limited	10-Oct-19	yes	1.60	on mkt buy	AUD	ORD	6,906	6,906
BlackRock Advisors (UK) Limited	10-Oct-19	yes	1.60	on mkt buy	AUD	ORD	7,170	7,170
BlackRock Advisors (UK) Limited	10-Oct-19	no	n/a	collateral transfer	AUD	ORD	67	67
BlackRock Advisors (UK) Limited	11-Oct-19	yes	1.61	on mkt buy	AUD	ORD	2,880	2,880
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	19,800	19,800
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	19,800	19,800
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	39,600	39,600
BlackRock Advisors, LLC	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	143	143
BlackRock Japan Co., Ltd.	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	5,976	5,976
BlackRock Advisors (UK) Limited	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	29,822	29,822
BLACKROCK FINANCIAL MANAGEMENT, INC.	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	939	939
BlackRock Investment Management, LLC	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	52,589	52,589
BlackRock Investment Management (UK) Limited	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	38,057	38,057
BlackRock Asset Management North Asia Limited	11-Oct-19	no	n/a	collateral transfer	AUD	ORD	1,975	1,975
BlackRock Advisors (UK) Limited	14-Oct-19	yes	1.67	on mkt buy	AUD	ORD	5,760	5,760
BlackRock Advisors, LLC	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Japan Co., Ltd.	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	48,816	48,816
BlackRock Advisors (UK) Limited	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	3,245,013	3,245,013
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	160	160
BlackRock Investment Management (UK) Limited	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	329	329
BlackRock Asset Management North Asia Limited	14-Oct-19	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Fund Advisors	15-Oct-19	no	n/a	in specie	AUD	ORD	4,042	4,042
BlackRock Fund Advisors	15-Oct-19	no	n/a	in specie	AUD	ORD	985	985
BlackRock Advisors (UK) Limited	15-Oct-19	yes	1.68	on mkt buy	AUD	ORD	2,316	2,316
BlackRock Investment Management (UK) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	269,034	269,034
BlackRock Investment Management (Australia) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	363	363
BlackRock Advisors (UK) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	15,394	15,394
BlackRock Advisors (UK) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	3,138	3,138
BlackRock Advisors (UK) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	3,570	3,570
BlackRock Advisors (UK) Limited	16-Oct-19	yes	1.70	on mkt buy	AUD	ORD	7,140	7,140
BlackRock Investment Management (UK) Limited	17-Oct-19	yes	1.70	on mkt buy	AUD	ORD	32,179	32,179
BlackRock Investment Management (Australia) Limited	17-Oct-19	yes	1.70	on mkt buy	AUD	ORD	11,442	11,442
BlackRock Advisors (UK) Limited	17-Oct-19	yes	1.70	on mkt buy	AUD	ORD	2,324	2,324
BlackRock Advisors (UK) Limited	17-Oct-19	yes	1.70	on mkt buy	AUD	ORD	782	782
BlackRock Investment Management, LLC	18-Oct-19	yes	1.69	on mkt buy	AUD	ORD	11,975	11,975
BlackRock Investment Management (Australia) Limited	18-Oct-19	yes	1.74	on mkt buy	AUD	ORD	19,070	19,070
BlackRock Advisors (UK) Limited	18-Oct-19	yes	1.74	on mkt buy	AUD	ORD	2,055	2,055
BlackRock Advisors (UK) Limited	18-Oct-19	yes	1.74	on mkt buy	AUD	ORD	2,740	2,740
BlackRock Advisors (UK) Limited	18-Oct-19	yes	1.74	on mkt buy	AUD	ORD	14,385	14,385
BlackRock Japan Co., Ltd.	18-Oct-19	no	n/a	collateral transfer	AUD	ORD	132,335	132,335
BlackRock Advisors (UK) Limited	18-Oct-19	no	n/a	collateral transfer	AUD	ORD	287	287
BlackRock Advisors (UK) Limited	21-Oct-19	no	n/a	in specie	AUD	ORD	15,702	15,702
BlackRock Advisors (UK) Limited	21-Oct-19	no	n/a	collateral transfer	AUD	ORD	3,426,711	3,426,711
BLACKROCK FINANCIAL MANAGEMENT, INC.	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD	10,692	10,692
BlackRock Investment Management (UK) Limited	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD	1,331	1,331
BlackRock Advisors, LLC	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD	17,506	17,506
BlackRock Institutional Trust Company, National Association	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD	8,188	8,188
BlackRock Advisors, LLC	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD	6,755	6,755

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	22-Oct-19	yes	1.80	on mkt buy	AUD	ORD 726	726
BlackRock Investment Management (Australia) Limited	23-Oct-19	yes	1.78	on mkt buy	AUD	ORD 674,843	674,843
BlackRock Advisors (UK) Limited	23-Oct-19	yes	1.79	on mkt buy	AUD	ORD 592	592
BlackRock Advisors (UK) Limited	23-Oct-19	yes	1.79	on mkt buy	AUD	ORD 1,776	1,776
BlackRock Advisors (UK) Limited	23-Oct-19	no	n/a	collateral transfer	AUD	ORD 337	337
BlackRock Investment Management (UK) Limited	24-Oct-19	yes	1.83	on mkt buy	AUD	ORD 153,930	153,930
BlackRock Fund Advisors	24-Oct-19	no	n/a	in specie	AUD	ORD 2,956	2,956
BlackRock Japan Co., Ltd.	24-Oct-19	no	n/a	collateral transfer	AUD	ORD 132,333	132,333
BlackRock Advisors (UK) Limited	25-Oct-19	yes	1.86	on mkt buy	AUD	ORD 15,362	15,362
BlackRock Investment Management (Australia) Limited	25-Oct-19	yes	1.86	on mkt buy	AUD	ORD 204,397	204,397
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	1.86	on mkt buy	AUD	ORD 7,537	7,537
BlackRock Investment Management (UK) Limited	25-Oct-19	no	n/a	collateral transfer	AUD	ORD 866,753	866,753
BlackRock Fund Advisors	28-Oct-19	no	n/a	in specie	AUD	ORD 4,056	4,056
BlackRock Advisors (UK) Limited	28-Oct-19	no	n/a	collateral transfer	AUD	ORD 395,189	395,189
BlackRock Fund Advisors	29-Oct-19	no	n/a	in specie	AUD	ORD 2,033	2,033
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	1.84	on mkt buy	AUD	ORD 22,884	22,884
BlackRock Japan Co., Ltd.	29-Oct-19	no	n/a	collateral transfer	AUD	ORD 193,292	193,292
BlackRock Investment Management (UK) Limited	29-Oct-19	no	n/a	collateral transfer	AUD	ORD 26	26
BlackRock Fund Advisors	30-Oct-19	no	n/a	in specie	AUD	ORD 1,970	1,970
BlackRock Investment Management (UK) Limited	30-Oct-19	yes	1.84	on mkt buy	AUD	ORD 386,271	386,271
BlackRock Advisors (UK) Limited	30-Oct-19	yes	1.82	on mkt buy	AUD	ORD 7,143	7,143
BlackRock Fund Advisors	30-Oct-19	no	n/a	in specie	AUD	ORD 61,080	61,080
BlackRock Advisors (UK) Limited	30-Oct-19	no	n/a	collateral transfer	AUD	ORD 867,278	867,278
BlackRock Institutional Trust Company, National Association	31-Oct-19	no	n/a	in specie	AUD	ORD 14,812	14,812
BlackRock Fund Advisors	31-Oct-19	no	n/a	in specie	AUD	ORD 12,222	12,222
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	1.84	on mkt buy	AUD	ORD 143,430	143,430
BlackRock Advisors (UK) Limited	31-Oct-19	yes	1.84	on mkt buy	AUD	ORD 6,399	6,399
BlackRock Advisors (UK) Limited	31-Oct-19	yes	1.84	on mkt buy	AUD	ORD 3,600	3,600
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	1.84	on mkt buy	AUD	ORD 32,043	32,043
BlackRock Fund Advisors	01-Nov-19	no	n/a	in specie	AUD	ORD 6,153	6,153
BLACKROCK FINANCIAL MANAGEMENT, INC.	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 12,883	12,883
BlackRock Fund Advisors	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 5,735	5,735
BlackRock Advisors, LLC	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 20,617	20,617
BlackRock Advisors (UK) Limited	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 2,012	2,012
BlackRock International Limited	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 4,616	4,616
BLACKROCK FINANCIAL MANAGEMENT, INC.	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 14,660	14,660
BlackRock Investment Management, LLC	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 4,567	4,567
BlackRock Advisors (UK) Limited	01-Nov-19	yes	1.86	on mkt buy	AUD	ORD 46,404	46,404
BlackRock Fund Advisors	01-Nov-19	no	n/a	in specie	AUD	ORD 38,172	38,172
BlackRock Investment Management (Australia) Limited	04-Nov-19	yes	1.85	on mkt buy	AUD	ORD 22,884	22,884
BlackRock Fund Advisors	04-Nov-19	no	n/a	in specie	AUD	ORD 19,086	19,086
BlackRock Japan Co., Ltd.	04-Nov-19	no	n/a	collateral transfer	AUD	ORD 505,144	505,144
BlackRock Advisors (UK) Limited	04-Nov-19	no	n/a	collateral transfer	AUD	ORD 402	402
BlackRock Investment Management (Australia) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 30,512	30,512
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 23,091	23,091
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 1,374	1,374
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 4,809	4,809
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 1,293	1,293
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 445	445
BlackRock Advisors (UK) Limited	05-Nov-19	yes	1.84	on mkt buy	AUD	ORD 431	431
BlackRock Fund Advisors	05-Nov-19	no	n/a	in specie	AUD	ORD 91,620	91,620
BlackRock Advisors, LLC	05-Nov-19	no	n/a	collateral transfer	AUD	ORD 3,848	3,848

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 FINANCIAL MANAGEMENT, INC.	05-Nov-19	no	n/a	collateral transfer	AUD	ORD	220,048	220,048
BlackRock Investment Management, LLC	05-Nov-19	no	n/a	collateral transfer	AUD	ORD	3,346,212	3,346,212
BlackRock Investment Management (UK) Limited	05-Nov-19	no	n/a	collateral transfer	AUD	ORD	2,173,829	2,173,829
BlackRock Investment Management (UK) Limited	06-Nov-19	yes	1.88	on mkt buy	AUD	ORD	433,110	433,110
BlackRock Investment Management (Australia) Limited	06-Nov-19	yes	1.90	on mkt buy	AUD	ORD	115,349	115,349
BlackRock Advisors (UK) Limited	06-Nov-19	yes	1.90	on mkt buy	AUD	ORD	3,535	3,535
BlackRock Fund Advisors	06-Nov-19	no	n/a	in specie	AUD	ORD	28,629	28,629
BlackRock Advisors (UK) Limited	06-Nov-19	no	n/a	collateral transfer	AUD	ORD	206,258	206,258
BlackRock Investment Management, LLC	06-Nov-19	no	n/a	collateral transfer	AUD	ORD	290,353	290,353
BlackRock Fund Advisors	07-Nov-19	no	n/a	in specie	AUD	ORD	40,413	40,413
BlackRock Investment Management (Australia) Limited	07-Nov-19	yes	1.94	on mkt buy	AUD	ORD	726	726
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	1.94	on mkt buy	AUD	ORD	397,039	397,039
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	1.94	on mkt buy	AUD	ORD	224,865	224,865
BlackRock Fund Advisors	07-Nov-19	no	n/a	in specie	AUD	ORD	76,350	76,350
BlackRock Advisors, LLC	07-Nov-19	no	n/a	collateral transfer	AUD	ORD	919	919
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	no	n/a	collateral transfer	AUD	ORD	47,157	47,157
BlackRock Investment Management, LLC	07-Nov-19	no	n/a	collateral transfer	AUD	ORD	548,321	548,321
BlackRock Advisors (UK) Limited	08-Nov-19	yes	1.94	on mkt buy	AUD	ORD	46,182	46,182
BlackRock Advisors (UK) Limited	08-Nov-19	yes	1.95	on mkt buy	AUD	ORD	4,851	4,851
BlackRock Advisors (UK) Limited	08-Nov-19	yes	1.95	on mkt buy	AUD	ORD	801	801
BlackRock Investment Management (UK) Limited	08-Nov-19	yes	1.95	on mkt buy	AUD	ORD	140,092	140,092
BlackRock Investment Management (UK) Limited	08-Nov-19	no	n/a	collateral transfer	AUD	ORD	661,958	661,958
BlackRock Fund Advisors	11-Nov-19	yes	1.97	on mkt buy	AUD	ORD	2,231,411	2,231,411
BlackRock Fund Advisors	11-Nov-19	yes	1.97	on mkt buy	AUD	ORD	3,500,000	3,500,000
BlackRock Investment Management (Australia) Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	7,628	7,628
BlackRock Advisors (UK) Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	15,716	15,716
BlackRock Advisors (UK) Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	4,823	4,823
BlackRock Advisors (UK) Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	4,823	4,823
BlackRock Advisors (UK) Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	7,143	7,143
BlackRock Investment Management, LLC	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	11,136	11,136
BlackRock Asset Management Canada Limited	11-Nov-19	yes	1.98	on mkt buy	AUD	ORD	2,690	2,690
BlackRock Fund Advisors	11-Nov-19	yes	1.97	on mkt buy	AUD	ORD	1,000,000	1,000,000
BlackRock Advisors, LLC	11-Nov-19	no	n/a	collateral transfer	AUD	ORD	230	230
BLACKROCK FINANCIAL MANAGEMENT, INC.	11-Nov-19	no	n/a	collateral transfer	AUD	ORD	19,587	19,587
BlackRock Investment Management (UK) Limited	11-Nov-19	no	n/a	collateral transfer	AUD	ORD	197,130	197,130

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

13-Nov-19

Bradley Taylor,
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 (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands
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	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
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 Capital Management, Inc.	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Financial Management, Inc.	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
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 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia)
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Japan Co., Ltd.	Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-8217 (Japan)

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

Bradley Taylor, Authorised Signatory
Date

13 November 2019

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 to form 603.
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 to form 603.
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 AMP Limited 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) Commerzbank AG **OSLA, 17 July 2002**
- (h) Credit Suisse AG, Dublin Branch **GMSLA, 28 September 2015**
- (i) Credit Suisse International **GMSLA, 10 March 2014**
- (j) Credit Suisse Securities (Europe) Limited **GMSLA, 26 August 2015**
- (k) Deutsche Bank AG, London Branch **GMSLA, 25 August 2017**
- (l) Goldman Sachs International **OSLA, 3 July 2001**
- (m) HSBC Bank plc **GMSLA, 27 October 2016**
- (n) ING Bank N.V. **GMSLA, 12 November 2018** (not yet operationally active)
- (o) J.P. Morgan Securities plc **GMSLA, 12 July 2011**
- (p) Macquarie Bank Limited **GMSLA, 18 August 2014**
- (q) Merrill Lynch International **OSLA, 13 July 1999**
- (r) Morgan Stanley & Co International plc **OSLA, 8 September 1999**
- (s) Natixis SA **GMSLA, 29 January 2018**
- (t) Nomura International plc **GMSLA, 2 November 2011**
- (u) Royal Bank of Canada Europe Limited **GMSLA, 3 February 2017**
- (v) Royal Bank of Scotland plc (renamed to Natwest Markets Plc) **GMSLA, 1 April 2011**
- (w) Santander UK Plc **GMSLA, 25 January 2019** (not yet operationally active)
- (x) Skandinaviska Enskilda Banken AB **GMSLA, 4 February 2013**
- (y) Societe Generale **GMSLA, 27 January 2012**
- (z) UBS AG **GMSLA, 28 April 2016**
- (aa) UBS Europe SE **GMSLA, 1 February 2019**
- (bb) BAL/Banco Santander, S.A. **GMSLA, 30 April 2019**
- (cc) Canadian Imperial Bank of Commerce, London Branch **GMSLA, 21 June 2019**
- (dd) Zürcher Kantonalbank **GMSLA, 30 October 2019**

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 Securities (Europe) Limited **GMSLA, October 2, 2015**
- (h) Deutsche Bank AG, London Branch **GMSLA, June 7, 2017**
- (i) Goldman Sachs International **OSLA April 1, 2004**
- (j) HSBC Bank plc **GMSLA, February 12, 2013**
- (k) J.P. Morgan Securities plc **GMSLA, October 4, 2016**
- (l) Macquarie Bank Limited **GMSLA, October 3, 2016**
- (m) Merrill Lynch International **GMSLA, February 19, 2014**
- (n) Morgan Stanley & Co International plc **OSLA, February 7, 2007**
- (o) Nomura International plc **GMSLA 03 August 2018 – not yet operational**
- (p) Societe Generale **GMSLA, September 28, 2016**
- (q) UBS AG **GMSLA, May 26, 2016**
- (r) UBS Europe SE **GMSLA, 1 February 2019**
- (s) The Hongkong and Shanghai Banking Corporation Limited **GMSLA, 22 February 2019**
- (t) RBC Europe Limited **GMSLA, 4 February 2019**
- (u) ING BANK N.V. **GMSLA, 27 February, 2019**

These counterparties do not pledge Australian equities:

- (a) Lloyds Bank plc
- (b) Merrill Lynch, Pierce, Fenner Smith Incorporated
- (c) Unicredit

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**