

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme ALS LTDACN/ARSN 009 657 489**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 04 /12 /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	24,448,599	24,448,599	5.06

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		

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 Maria Tricarico

capacity Authorised Signatory*

sign here

date 06 / 12 / 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.

Maria Tricarico,
Authorised Signatory

06-Dec-19
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.	SSB-STATE STREET LONDON		ORD 64,951	64,951	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 522,666	522,666	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 247,905	247,905	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 71,972	71,972	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 48,959	48,959	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 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.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 39,475	39,475	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-THE BANK OF NEW YORK		ORD 212,438	212,438	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 33,934	33,934	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-CIBC MELLON GLOBAL SECURITIES - NEW YORK		ORD 207,401	207,401	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 24,899	24,899	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.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 15,300	15,300	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 89,380	89,380	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 391	391	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 663	663	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.	BNYM-THE BANK OF NEW YORK		ORD 106,229	106,229	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.	HSBC-HSBC, HONG KONG		ORD 15,696	15,696	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 10,584	10,584	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.	Mitsubishi UFJ Investor Services & Banking Lux S.A		ORD 11,646	11,646	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.	NT-NORTHERN TRUST CO. - CHICAGO		ORD 25,507	25,507	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 230,489	230,489	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 93,813	93,813	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 4,648,743	4,648,743	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 447,268	447,268	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.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 99,533	99,533	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.	CITI-CITIGROUP GLOBAL MARKETS PRIME BROKERAGE - NEW YORK		ORD 65,815	65,815	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 4,613,563	4,613,563	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.	MS-MORGAN STANLEY & CO INC		ORD 12,819	12,819	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 35,981	35,981	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 BOSTON INSTITUTIONAL		ORD 11,787	11,787	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 383,987	383,987	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 1,883	1,883	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.	UBS- UBS- ZURICH		ORD 89,557	89,557	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 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 100,294	100,294	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.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 83,728	83,728	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 619,250	619,250	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 3,608,153	3,608,153	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 2,000,086	2,000,086	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.	Northern Trust Singapore		ORD 435,984	435,984	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.	UBS- UBS- ZURICH		ORD 169,254	169,254	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-BNP Paribas Milan		ORD 44,850	44,850	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 227,684	227,684	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.	BNYM-BONY EUROPE - LONDON		ORD 231,700	231,700	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 INTERNATIONAL PLC (LUXEMBOURG BRANCH		ORD 47,579	47,579	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 675,042	675,042	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 262,279	262,279	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-JPM CHASE - LONDON		ORD 3,175	3,175	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 1,050,805	1,050,805	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 13,438	13,438	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 6,482	6,482	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 S.p.A		ORD 47,292	47,292	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.	BNYM-BONY LUXEMBOURG		ORD	75,289	75,289	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	151,200	151,200	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	36,562	36,562	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-JPM CHASE - LONDON		ORD	12,816	12,816	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-SSB NEW YORK INSTITUTIONAL		ORD	4,039	4,039	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 BANK LUXEMBOURG		ORD	35,666	35,666	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	13,347	13,347	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	36,680	36,680	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-JPM CHASE - LONDON		ORD	160,848	160,848	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 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.	MITSUI-SUMITOMO TRUST		ORD	82,503	82,503	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.	JPM-JPM CHASE - SYDNEY		ORD	172,999	172,999	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	256,192	256,192	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.	Northern Trust Singapore		ORD	15,382	15,382	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 responsible entity.	JPM-JPM CHASE - SYDNEY		ORD	1,282,767	1,282,767	subsidiary of BlackRock Inc.

This is Annexure B of 16 pages referred to in form 603 Notice of initial substantial shareholder

06-Dec-19

Maria Tricarico,
Authorised Signatory

Date

5. Consideration

ALS LTD (ALQ)								
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	05-Aug-19	yes	6.79	on mkt buy	AUD	ORD	1,312	1,312
BlackRock Investment Management (Australia) Limited	06-Aug-19	yes	6.81	on mkt buy	AUD	ORD	3,948	3,948
BlackRock Investment Management (Australia) Limited	09-Aug-19	yes	7.18	on mkt buy	AUD	ORD	4,512	4,512
BlackRock Investment Management (Australia) Limited	09-Aug-19	yes	7.18	on mkt buy	AUD	ORD	15,679	15,679
BlackRock Investment Management (Australia) Limited	09-Aug-19	yes	7.18	on mkt buy	AUD	ORD	11,208	11,208
BlackRock Investment Management, LLC	14-Aug-19	yes	7.66	on mkt buy	AUD	ORD	2,772	2,772
BlackRock Fund Advisors	15-Aug-19	no	n/a	in specie	AUD	ORD	4,340	4,340
BlackRock Fund Advisors	16-Aug-19	no	n/a	in specie	AUD	ORD	1,503	1,503
BlackRock Advisors (UK) Limited	19-Aug-19	yes	7.54	on mkt buy	AUD	ORD	1,312	1,312
BlackRock Institutional Trust Company, National Association	19-Aug-19	yes	7.54	on mkt buy	AUD	ORD	14,464	14,464
BlackRock Investment Management (Australia) Limited	20-Aug-19	yes	7.73	on mkt buy	AUD	ORD	4,512	4,512
BlackRock Investment Management (Australia) Limited	21-Aug-19	yes	7.57	on mkt buy	AUD	ORD	1,692	1,692
BlackRock Investment Management (Australia) Limited	23-Aug-19	yes	7.67	on mkt buy	AUD	ORD	2,820	2,820
BlackRock Investment Management (UK) Limited	27-Aug-19	yes	7.61	on mkt buy	AUD	ORD	7,578	7,578
BlackRock Institutional Trust Company, National Association	30-Aug-19	yes	7.67	on mkt buy	AUD	ORD	34,087	34,087
BlackRock Fund Advisors	30-Aug-19	no	n/a	in specie	AUD	ORD	2,645	2,645
BlackRock Investment Management (UK) Limited	03-Sep-19	yes	7.76	on mkt buy	AUD	ORD	12,014	12,014
BlackRock Investment Management (Australia) Limited	03-Sep-19	yes	7.78	on mkt buy	AUD	ORD	3,384	3,384
BlackRock Institutional Trust Company, National Association	05-Sep-19	yes	7.92	on mkt buy	AUD	ORD	7,392	7,392
BlackRock Fund Advisors	05-Sep-19	no	n/a	in specie	AUD	ORD	2,300	2,300
BlackRock Fund Advisors	05-Sep-19	no	n/a	in specie	AUD	ORD	1,380	1,380
BlackRock Investment Management (Australia) Limited	06-Sep-19	yes	8.05	on mkt buy	AUD	ORD	6,768	6,768
BlackRock Asset Management Canada Limited	06-Sep-19	yes	8.05	on mkt buy	AUD	ORD	36,953	36,953
BlackRock Fund Advisors	06-Sep-19	no	n/a	in specie	AUD	ORD	1,840	1,840
BlackRock Investment Management (Australia) Limited	10-Sep-19	yes	8.02	on mkt buy	AUD	ORD	4,512	4,512
BlackRock Fund Advisors	10-Sep-19	no	n/a	in specie	AUD	ORD	2,070	2,070
BlackRock Fund Advisors	11-Sep-19	no	n/a	in specie	AUD	ORD	805	805
BlackRock Fund Advisors	13-Sep-19	no	n/a	in specie	AUD	ORD	805	805
BlackRock Fund Advisors	13-Sep-19	no	n/a	in specie	AUD	ORD	652	652
BlackRock Investment Management (Australia) Limited	18-Sep-19	yes	8.10	on mkt buy	AUD	ORD	8,639	8,639
BlackRock Investment Management (Australia) Limited	20-Sep-19	yes	8.13	on mkt buy	AUD	ORD	3,948	3,948
BlackRock Fund Advisors	24-Sep-19	no	n/a	in specie	AUD	ORD	1,096	1,096
BlackRock Investment Management (Australia) Limited	25-Sep-19	yes	8.10	on mkt buy	AUD	ORD	5,076	5,076
BlackRock Asset Management Canada Limited	27-Sep-19	yes	8.12	on mkt buy	AUD	ORD	2,757	2,757
BlackRock Investment Management (Australia) Limited	30-Sep-19	yes	8.02	on mkt buy	AUD	ORD	5,640	5,640
BlackRock Advisors (UK) Limited	30-Sep-19	yes	8.02	on mkt buy	AUD	ORD	656	656
BlackRock Investment Management (Australia) Limited	01-Oct-19	yes	8.13	on mkt buy	AUD	ORD	4,538	4,538
BlackRock Investment Management (Australia) Limited	01-Oct-19	yes	8.11	on mkt buy	AUD	ORD	564	564
BlackRock Institutional Trust Company, National Association	02-Oct-19	yes	8.05	on mkt buy	AUD	ORD	1,970	1,970

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	02-Oct-19	yes	8.05	on mkt buy	AUD	ORD	952	952
BlackRock Japan Co., Ltd.	02-Oct-19	yes	8.05	on mkt buy	AUD	ORD	1,996	1,996
BlackRock Japan Co., Ltd.	02-Oct-19	yes	8.05	on mkt buy	AUD	ORD	2,156	2,156
BlackRock Investment Management, LLC	02-Oct-19	yes	8.05	on mkt buy	AUD	ORD	2,764	2,764
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	3,722	3,722
BlackRock Investment Management (Australia) Limited	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	5,319	5,319
BlackRock Advisors, LLC	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	5,874	5,874
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	1,967	1,967
BlackRock Advisors, LLC	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	2,747	2,747
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	20,304	20,304
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	4,966	4,966
BLACKROCK FINANCIAL MANAGEMENT, INC.	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	3,362	3,362
BlackRock Asset Management Canada Limited	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	3,032	3,032
BlackRock Asset Management Canada Limited	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	4,574	4,574
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	8,651	8,651
BlackRock Institutional Trust Company, National Association	03-Oct-19	yes	8.11	on mkt buy	AUD	ORD	7,278	7,278
BlackRock Investment Management (UK) Limited	03-Oct-19	yes	8.01	on mkt buy	AUD	ORD	1,820	1,820
BlackRock Fund Advisors	03-Oct-19	no	n/a	in specie	AUD	ORD	654	654
BlackRock Advisors, LLC	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	4,658	4,658
BlackRock Institutional Trust Company, National Association	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	18,149	18,149
BlackRock Institutional Trust Company, National Association	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	2,909	2,909
BlackRock Asset Management Canada Limited	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	4,419	4,419
BlackRock Institutional Trust Company, National Association	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	8,226	8,226
BlackRock Institutional Trust Company, National Association	04-Oct-19	yes	8.02	on mkt buy	AUD	ORD	6,381	6,381
BlackRock Investment Management (Australia) Limited	04-Oct-19	yes	8.00	on mkt buy	AUD	ORD	15,792	15,792
BlackRock Institutional Trust Company, National Association	04-Oct-19	yes	8.01	on mkt buy	AUD	ORD	1,002	1,002
BlackRock Advisors (UK) Limited	07-Oct-19	yes	8.15	on mkt buy	AUD	ORD	656	656
BlackRock Fund Advisors	07-Oct-19	no	n/a	in specie	AUD	ORD	3,036	3,036
BlackRock Investment Management (Australia) Limited	08-Oct-19	no	n/a	in specie	AUD	ORD	99,883	99,883
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	880	880
BlackRock Investment Management (Australia) Limited	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	8,723	8,723
BlackRock Advisors, LLC	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	3,146	3,146
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	12,839	12,839
BlackRock Asset Management Canada Limited	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,935	2,935
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	8.16	on mkt buy	AUD	ORD	6,003	6,003
BlackRock Investment Management (Australia) Limited	08-Oct-19	yes	8.14	on mkt buy	AUD	ORD	12,972	12,972
BlackRock Institutional Trust Company, National Association	08-Oct-19	yes	8.14	on mkt buy	AUD	ORD	1,699	1,699
BlackRock Institutional Trust Company, National Association	09-Oct-19	yes	8.06	on mkt buy	AUD	ORD	248	248
BlackRock Japan Co., Ltd.	09-Oct-19	yes	8.06	on mkt buy	AUD	ORD	2,736	2,736
BlackRock Japan Co., Ltd.	09-Oct-19	yes	8.06	on mkt buy	AUD	ORD	1,991	1,991
BlackRock Japan Co., Ltd.	09-Oct-19	yes	8.06	on mkt buy	AUD	ORD	1,824	1,824
BlackRock Investment Management (Australia) Limited	09-Oct-19	yes	8.06	on mkt buy	AUD	ORD	34,154	34,154
BlackRock Investment Management (UK) Limited	09-Oct-19	yes	8.05	on mkt buy	AUD	ORD	3,836	3,836
BlackRock Institutional Trust Company, National Association	10-Oct-19	yes	8.02	on mkt buy	AUD	ORD	202	202

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	10-Oct-19	yes	8.02	on mkt buy	AUD	ORD	11,538	11,538
BlackRock Institutional Trust Company, National Association	10-Oct-19	yes	8.03	on mkt buy	AUD	ORD	1,478	1,478
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	2,760	2,760
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	2,760	2,760
BlackRock Fund Advisors	11-Oct-19	no	n/a	in specie	AUD	ORD	5,520	5,520
BlackRock Fund Advisors	14-Oct-19	no	n/a	in specie	AUD	ORD	13,056	13,056
BlackRock Fund Advisors	15-Oct-19	no	n/a	in specie	AUD	ORD	656	656
BlackRock Advisors (UK) Limited	15-Oct-19	yes	8.06	on mkt buy	AUD	ORD	656	656
BlackRock Japan Co., Ltd.	16-Oct-19	yes	8.20	on mkt buy	AUD	ORD	3,568	3,568
BlackRock Investment Management, LLC	16-Oct-19	yes	8.19	on mkt buy	AUD	ORD	2,294	2,294
BlackRock Investment Management (Australia) Limited	16-Oct-19	yes	8.20	on mkt buy	AUD	ORD	7,467	7,467
BlackRock Investment Management (UK) Limited	16-Oct-19	yes	8.24	on mkt buy	AUD	ORD	1,169	1,169
BlackRock Advisors (UK) Limited	17-Oct-19	yes	8.22	on mkt buy	AUD	ORD	2,851	2,851
BlackRock Advisors (UK) Limited	17-Oct-19	yes	8.22	on mkt buy	AUD	ORD	4,517	4,517
BlackRock Advisors (UK) Limited	17-Oct-19	yes	8.22	on mkt buy	AUD	ORD	3,739	3,739
BlackRock Investment Management (Australia) Limited	17-Oct-19	yes	8.19	on mkt buy	AUD	ORD	1,689	1,689
BlackRock Investment Management (UK) Limited	18-Oct-19	yes	8.13	on mkt buy	AUD	ORD	1,650	1,650
BlackRock Investment Management (UK) Limited	18-Oct-19	yes	8.13	on mkt buy	AUD	ORD	2,516	2,516
BlackRock Investment Management (Australia) Limited	18-Oct-19	yes	8.07	on mkt buy	AUD	ORD	2,815	2,815
BlackRock Institutional Trust Company, National Association	22-Oct-19	yes	8.24	on mkt buy	AUD	ORD	3,649	3,649
BlackRock Asset Management Canada Limited	22-Oct-19	yes	8.24	on mkt buy	AUD	ORD	2,770	2,770
BLACKROCK FINANCIAL MANAGEMENT, INC.	22-Oct-19	yes	8.24	on mkt buy	AUD	ORD	2,939	2,939
BlackRock Institutional Trust Company, National Association	23-Oct-19	yes	8.10	on mkt buy	AUD	ORD	199	199
BlackRock Investment Management (Australia) Limited	23-Oct-19	yes	8.07	on mkt buy	AUD	ORD	8,334	8,334
BlackRock Investment Management (Australia) Limited	23-Oct-19	yes	8.07	on mkt buy	AUD	ORD	17,854	17,854
BlackRock Investment Management (Australia) Limited	23-Oct-19	yes	8.09	on mkt buy	AUD	ORD	20,301	20,301
BlackRock Institutional Trust Company, National Association	24-Oct-19	yes	8.07	on mkt buy	AUD	ORD	4,406	4,406
BlackRock Investment Management (Australia) Limited	24-Oct-19	yes	8.07	on mkt buy	AUD	ORD	7,954	7,954
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	2,041	2,041
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	1,411	1,411
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	3,230	3,230
BlackRock Advisors, LLC	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	3,370	3,370
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	13,586	13,586
BlackRock Investment Management, LLC	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	2,029	2,029
BlackRock Institutional Trust Company, National Association	25-Oct-19	yes	8.12	on mkt buy	AUD	ORD	5,654	5,654
BlackRock Fund Advisors	28-Oct-19	no	n/a	in specie	AUD	ORD	656	656
BlackRock Institutional Trust Company, National Association	28-Oct-19	yes	8.13	on mkt buy	AUD	ORD	3,191	3,191
BlackRock Fund Advisors	29-Oct-19	no	n/a	in specie	AUD	ORD	329	329
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	775	775
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	3,671	3,671
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,826	2,826
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,018	2,018
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	1,894	1,894
BlackRock Advisors, LLC	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	5,986	5,986
BlackRock Asset Management Canada Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,950	2,950
BLACKROCK FINANCIAL MANAGEMENT, INC.	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	12,454	12,454

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.	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	5,781	5,781
BlackRock Investment Management, LLC	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,050	2,050
BlackRock International Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	6,357	6,357
BlackRock Investment Management, LLC	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	1,928	1,928
BLACKROCK FINANCIAL MANAGEMENT, INC.	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	4,975	4,975
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	18,852	18,852
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	3,376	3,376
BlackRock Advisors (UK) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	5,781	5,781
BlackRock Advisors (UK) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	4,495	4,495
BlackRock Asset Management Canada Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,999	2,999
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	7,236	7,236
BlackRock Institutional Trust Company, National Association	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	11,532	11,532
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	3,378	3,378
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	262	262
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	10,055	10,055
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	478	478
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	4,524	4,524
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	173,710	173,710
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	8,262	8,262
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	6,065	6,065
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	232,860	232,860
BlackRock Investment Management (Australia) Limited	29-Oct-19	yes	8.16	on mkt buy	AUD	ORD	11,075	11,075
BlackRock Institutional Trust Company, National Association	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	812	812
BlackRock Institutional Trust Company, National Association	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	4,140	4,140
BlackRock Investment Management (UK) Limited	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,170	2,170
BlackRock Institutional Trust Company, National Association	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,197	2,197
BlackRock Institutional Trust Company, National Association	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	753	753
BlackRock Japan Co., Ltd.	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	5,087	5,087
BlackRock Japan Co., Ltd.	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,347	2,347
BlackRock Japan Co., Ltd.	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,755	2,755
BlackRock Investment Management (UK) Limited	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,767	2,767
BLACKROCK FINANCIAL MANAGEMENT, INC.	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,685	2,685
BlackRock Investment Management, LLC	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	2,784	2,784
BlackRock Institutional Trust Company, National Association	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	1,786	1,786
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD	30	30
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD	1,152	1,152
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD	55	55
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.16	on mkt buy	AUD	ORD	14,650	14,650
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.13	on mkt buy	AUD	ORD	29,127	29,127
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.13	on mkt buy	AUD	ORD	1,118,215	1,118,215
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.13	on mkt buy	AUD	ORD	53,179	53,179
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD	20,513	20,513

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	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD 787,474	787,474
BlackRock Investment Management (Australia) Limited	30-Oct-19	yes	8.15	on mkt buy	AUD	ORD 37,452	37,452
BlackRock Investment Management (UK) Limited	30-Oct-19	yes	8.19	on mkt buy	AUD	ORD 2,800	2,800
BlackRock Fund Advisors	31-Oct-19	no	n/a	in specie	AUD	ORD 1,980	1,980
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 732	732
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 5,017	5,017
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 2,053	2,053
BlackRock Investment Management (Australia) Limited	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 1,563	1,563
BlackRock Advisors, LLC	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 6,408	6,408
BlackRock Advisors, LLC	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 2,709	2,709
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 2,011	2,011
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 28,229	28,229
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 3,801	3,801
BlackRock Advisors (UK) Limited	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 4,516	4,516
BlackRock Advisors (UK) Limited	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 3,533	3,533
BLACKROCK FINANCIAL MANAGEMENT, INC.	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 1,785	1,785
BlackRock Asset Management Canada Limited	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 4,536	4,536
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.10	on mkt buy	AUD	ORD 9,961	9,961
BlackRock Institutional Trust Company, National Association	31-Oct-19	yes	8.07	on mkt buy	AUD	ORD 34,122	34,122
BlackRock Advisors (UK) Limited	31-Oct-19	yes	8.07	on mkt buy	AUD	ORD 656	656
BlackRock Fund Advisors	01-Nov-19	no	n/a	in specie	AUD	ORD 999	999
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 1,956	1,956
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 5,991	5,991
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 5,667	5,667
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 2,314	2,314
BlackRock Advisors (UK) Limited	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 2,698	2,698
BlackRock Advisors, LLC	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 8,328	8,328
BlackRock International Limited	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 8,557	8,557
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 1,950	1,950
BLACKROCK FINANCIAL MANAGEMENT, INC.	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 4,601	4,601
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 33,007	33,007
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 4,628	4,628
BlackRock Advisors (UK) Limited	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 6,939	6,939
BlackRock Advisors (UK) Limited	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 5,349	5,349
BLACKROCK FINANCIAL MANAGEMENT, INC.	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 1,799	1,799
BlackRock Asset Management Canada Limited	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 6,193	6,193
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 14,268	14,268
BlackRock Institutional Trust Company, National Association	01-Nov-19	yes	8.14	on mkt buy	AUD	ORD 12,794	12,794
BlackRock Fund Advisors	01-Nov-19	no	n/a	in specie	AUD	ORD 2,000	2,000
BlackRock Fund Advisors	01-Nov-19	no	n/a	in specie	AUD	ORD 12,415	12,415
BlackRock Institutional Trust Company, National Association	04-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,438	2,438
BlackRock Institutional Trust Company, National Association	04-Nov-19	yes	8.24	on mkt buy	AUD	ORD 4,218	4,218
BlackRock Investment Management (Australia) Limited	04-Nov-19	yes	8.19	on mkt buy	AUD	ORD 3,378	3,378
BlackRock Advisors, LLC	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,670	1,670
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,782	2,782
BlackRock International Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 8,678	8,678

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	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 6,001	6,001
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,609	2,609
BlackRock Asset Management Canada Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,813	1,813
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 3,470	3,470
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,314	2,314
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,414	2,414
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 6,138	6,138
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,156	1,156
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,190	1,190
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,106	1,106
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,525	1,525
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,187	1,187
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,575	1,575
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 830	830
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 678	678
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 606	606
BlackRock Investment Management (Australia) Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 568	568
BlackRock Advisors, LLC	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 604	604
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 650	650
BlackRock Investment Management, LLC	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 468	468
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,379	2,379
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 3,647	3,647
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,996	2,996
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,184	2,184
BlackRock Investment Management (Australia) Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,669	1,669
BlackRock Advisors, LLC	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 6,035	6,035
BlackRock Advisors, LLC	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,181	2,181
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 10,050	10,050
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,171	4,171
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,344	2,344
BlackRock Investment Management, LLC	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,688	1,688
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,302	4,302
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 21,679	21,679
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 3,992	3,992
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 9,424	9,424
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 5,510	5,510
BlackRock Advisors (UK) Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,291	4,291
BLACKROCK FINANCIAL MANAGEMENT, INC.	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,447	2,447
BlackRock Asset Management Canada Limited	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 6,548	6,548
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 12,537	12,537
BlackRock Institutional Trust Company, National Association	05-Nov-19	yes	8.23	on mkt buy	AUD	ORD 8,360	8,360
BlackRock Investment Management (Australia) Limited	05-Nov-19	yes	8.24	on mkt buy	AUD	ORD 4,504	4,504
BlackRock Investment Management (Australia) Limited	06-Nov-19	yes	8.24	on mkt buy	AUD	ORD 6,100	6,100

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	06-Nov-19	yes	8.24	on mkt buy	AUD	ORD 9,740	9,740
BlackRock Institutional Trust Company, National Association	06-Nov-19	yes	8.24	on mkt buy	AUD	ORD 6,309	6,309
BlackRock Investment Management, LLC	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,720	4,720
BlackRock Institutional Trust Company, National Association	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,959	1,959
BlackRock Japan Co., Ltd.	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 6,255	6,255
BlackRock Japan Co., Ltd.	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 7,220	7,220
BlackRock Japan Co., Ltd.	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 3,786	3,786
BlackRock Japan Co., Ltd.	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 3,074	3,074
BlackRock Investment Management (UK) Limited	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,750	4,750
BlackRock Advisors (UK) Limited	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 19,510	19,510
BlackRock Investment Management, LLC	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 4,693	4,693
BlackRock Investment Management, LLC	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 2,907	2,907
BlackRock Institutional Trust Company, National Association	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,805	1,805
BlackRock Investment Management (UK) Limited	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,760	1,760
BlackRock Advisors (UK) Limited	06-Nov-19	yes	8.23	on mkt buy	AUD	ORD 1,760	1,760
BlackRock Japan Co., Ltd.	06-Nov-19	yes	8.24	on mkt buy	AUD	ORD 16,761	16,761
BLACKROCK FINANCIAL MANAGEMENT, INC.	06-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,760	1,760
BlackRock Fund Advisors	07-Nov-19	no	n/a	in specie	AUD	ORD 6,555	6,555
BlackRock Fund Advisors	07-Nov-19	no	n/a	in specie	AUD	ORD 10,000	10,000
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 3,781	3,781
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 5,216	5,216
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 6,196	6,196
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 4,706	4,706
BlackRock Advisors (UK) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 4,080	4,080
BlackRock Investment Management (Australia) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 3,506	3,506
BlackRock Advisors, LLC	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 11,801	11,801
BlackRock Advisors, LLC	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,820	2,820
BlackRock Asset Management Canada Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,275	2,275
BlackRock Investment Management (UK) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 1,361	1,361
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 18,340	18,340
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 7,276	7,276
BlackRock Investment Management, LLC	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 1,501	1,501
BlackRock International Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 8,785	8,785
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 69,557	69,557
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,273	2,273
BlackRock Investment Management, LLC	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 6,596	6,596
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 4,080	4,080
BlackRock Advisors, LLC	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,489	2,489
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 36,358	36,358
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 5,837	5,837
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 16,061	16,061
BlackRock Advisors (UK) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 9,888	9,888
BlackRock Advisors (UK) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 7,799	7,799
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 3,635	3,635
BlackRock Investment Management (UK) Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 3,360	3,360
BlackRock Asset Management Canada Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,120	2,120
BlackRock Asset Management Canada Limited	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 9,492	9,492
BLACKROCK FINANCIAL MANAGEMENT, INC.	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD 2,650	2,650

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	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD	18,139	18,139
BlackRock Institutional Trust Company, National Association	07-Nov-19	yes	8.19	on mkt buy	AUD	ORD	12,795	12,795
BlackRock Fund Advisors	08-Nov-19	no	n/a	in specie	AUD	ORD	3,176	3,176
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	2,138	2,138
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	2,889	2,889
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	738	738
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,706	1,706
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,556	1,556
BlackRock Advisors (UK) Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,522	1,522
BlackRock Advisors, LLC	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	4,637	4,637
BlackRock Advisors, LLC	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,226	1,226
BlackRock Asset Management Canada Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	942	942
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	4,615	4,615
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,839	1,839
BlackRock Investment Management, LLC	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	525	525
BlackRock International Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	3,139	3,139
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	7,303	7,303
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	697	697
BlackRock Investment Management, LLC	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	3,252	3,252
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,751	1,751
BlackRock Advisors, LLC	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	904	904
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	14,447	14,447
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	2,341	2,341
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	4,159	4,159
BlackRock Advisors (UK) Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	3,419	3,419
BlackRock Advisors (UK) Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	2,775	2,775
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	1,201	1,201
BlackRock Asset Management Canada Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	833	833
BlackRock Asset Management Canada Limited	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	3,815	3,815
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	894	894
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	7,208	7,208
BlackRock Institutional Trust Company, National Association	08-Nov-19	yes	8.22	on mkt buy	AUD	ORD	5,336	5,336
BLACKROCK FINANCIAL MANAGEMENT, INC.	08-Nov-19	yes	8.24	on mkt buy	AUD	ORD	2,647	2,647
BlackRock Fund Advisors	08-Nov-19	no	n/a	in specie	AUD	ORD	7,940	7,940
BlackRock Fund Advisors	11-Nov-19	no	n/a	in specie	AUD	ORD	13,530	13,530
BlackRock Institutional Trust Company, National Association	11-Nov-19	yes	8.17	on mkt buy	AUD	ORD	7,581	7,581
BlackRock Institutional Trust Company, National Association	11-Nov-19	yes	8.17	on mkt buy	AUD	ORD	11,884	11,884
BlackRock Investment Management (Australia) Limited	11-Nov-19	yes	8.19	on mkt buy	AUD	ORD	1,126	1,126
BlackRock Fund Advisors	12-Nov-19	no	n/a	in specie	AUD	ORD	14,364	14,364
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD	6,489	6,489
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD	9,493	9,493
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD	2,125	2,125
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.19	on mkt buy	AUD	ORD	2,674	2,674
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD	5,518	5,518

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	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 4,034	4,034
BlackRock Advisors (UK) Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 4,394	4,394
BlackRock Investment Management (Australia) Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 8,388	8,388
BlackRock Advisors, LLC	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 22,862	22,862
BlackRock Advisors, LLC	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 4,216	4,216
BlackRock Asset Management Canada Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 2,538	2,538
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 15,684	15,684
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 6,188	6,188
BlackRock Investment Management, LLC	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 1,427	1,427
BlackRock International Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 10,950	10,950
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 30,668	30,668
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 2,813	2,813
BlackRock Investment Management, LLC	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 9,564	9,564
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 5,131	5,131
BlackRock Advisors, LLC	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 4,391	4,391
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 73,166	73,166
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 12,973	12,973
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 13,459	13,459
BlackRock Advisors (UK) Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 9,561	9,561
BlackRock Advisors (UK) Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 7,599	7,599
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 3,115	3,115
BlackRock Asset Management Canada Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 3,932	3,932
BlackRock Asset Management Canada Limited	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 20,297	20,297
BLACKROCK FINANCIAL MANAGEMENT, INC.	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 2,859	2,859
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 38,795	38,795
BlackRock Institutional Trust Company, National Association	12-Nov-19	yes	8.20	on mkt buy	AUD	ORD 24,039	24,039
BlackRock Investment Management (Australia) Limited	12-Nov-19	yes	8.19	on mkt buy	AUD	ORD 13,161	13,161
BlackRock Investment Management (Australia) Limited	12-Nov-19	yes	8.19	on mkt buy	AUD	ORD 483,894	483,894
BlackRock Investment Management (Australia) Limited	12-Nov-19	yes	8.19	on mkt buy	AUD	ORD 27,251	27,251
BlackRock Institutional Trust Company, National Association	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 10,412	10,412
BlackRock Institutional Trust Company, National Association	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 15,559	15,559
BlackRock Investment Management, LLC	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 6,707	6,707
BlackRock Investment Management (UK) Limited	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,340	2,340
BlackRock Institutional Trust Company, National Association	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,682	2,682
BlackRock Institutional Trust Company, National Association	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 3,149	3,149
BlackRock Advisors (UK) Limited	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,680	1,680
BlackRock Japan Co., Ltd.	13-Nov-19	yes	8.23	on mkt buy	AUD	ORD 32,473	32,473
BlackRock Japan Co., Ltd.	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 9,782	9,782
BlackRock Japan Co., Ltd.	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 11,293	11,293
BlackRock Japan Co., Ltd.	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 7,239	7,239
BlackRock Japan Co., Ltd.	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 5,876	5,876
BlackRock Investment Management, LLC	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 1,124	1,124
BlackRock Investment Management (UK) Limited	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 10,059	10,059
BLACKROCK FINANCIAL MANAGEMENT, INC.	13-Nov-19	yes	8.23	on mkt buy	AUD	ORD 3,191	3,191
BlackRock Advisors (UK) Limited	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 15,241	15,241
BlackRock Investment Management, LLC	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 8,118	8,118
BlackRock Investment Management, LLC	13-Nov-19	yes	8.24	on mkt buy	AUD	ORD 2,345	2,345
BlackRock Fund Advisors	13-Nov-19	no	n/a	in specie	AUD	ORD 6,060	6,060

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	13-Nov-19	yes	8.25	on mkt buy	AUD	ORD	23,011	23,011
BlackRock Investment Management (Australia) Limited	13-Nov-19	yes	8.25	on mkt buy	AUD	ORD	38,378	38,378
BlackRock Investment Management (Australia) Limited	13-Nov-19	yes	8.25	on mkt buy	AUD	ORD	13,880	13,880
BlackRock Investment Management (Australia) Limited	13-Nov-19	yes	8.25	on mkt buy	AUD	ORD	14,082	14,082
BlackRock Investment Management (UK) Limited	13-Nov-19	yes	8.22	on mkt buy	AUD	ORD	956	956
BlackRock Advisors (UK) Limited	13-Nov-19	yes	8.21	on mkt buy	AUD	ORD	656	656
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	11,320	11,320
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	15,770	15,770
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	3,225	3,225
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	10,769	10,769
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	5,651	5,651
BlackRock Investment Management (Australia) Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	38,080	38,080
BlackRock Advisors, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	35,271	35,271
BlackRock Advisors, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	8,226	8,226
BlackRock Asset Management Canada Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	3,490	3,490
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	22,246	22,246
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	8,970	8,970
BlackRock International Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	10,917	10,917
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	34,508	34,508
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	4,456	4,456
BlackRock Investment Management, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	26,073	26,073
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	10,265	10,265
BlackRock Advisors, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	6,124	6,124
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	120,727	120,727
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	19,315	19,315
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	19,990	19,990
BlackRock Advisors (UK) Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	14,779	14,779
BlackRock Advisors (UK) Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	11,591	11,591
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	4,364	4,364
BlackRock Investment Management (UK) Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	5,145	5,145
BlackRock Asset Management Canada Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	5,508	5,508
BlackRock Asset Management Canada Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	29,833	29,833
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	63,298	63,298
BlackRock Institutional Trust Company, National Association	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	35,771	35,771
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	1,917	1,917
BlackRock Investment Management (UK) Limited	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	2,189	2,189
BlackRock Investment Management, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	2,280	2,280
BLACKROCK FINANCIAL MANAGEMENT, INC.	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	2,996	2,996
BlackRock Investment Management, LLC	14-Nov-19	yes	8.25	on mkt buy	AUD	ORD	1,851	1,851
BlackRock Investment Management (Australia) Limited	14-Nov-19	yes	8.22	on mkt buy	AUD	ORD	3,378	3,378
BlackRock Advisors (UK) Limited	14-Nov-19	yes	8.22	on mkt buy	AUD	ORD	6,560	6,560
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.25	on mkt buy	AUD	ORD	3,676	3,676
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.23	on mkt buy	AUD	ORD	6,750	6,750

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	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 4,384	4,384
BlackRock Advisors, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 14,766	14,766
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 11,214	11,214
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 4,438	4,438
BlackRock International Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 6,015	6,015
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 25,229	25,229
BlackRock Investment Management, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 8,221	8,221
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 53,821	53,821
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 8,088	8,088
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 9,991	9,991
BlackRock Advisors (UK) Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 7,833	7,833
BlackRock Advisors (UK) Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 6,215	6,215
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 12,490	12,490
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 25,671	25,671
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 14,977	14,977
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.23	on mkt buy	AUD	ORD 6,296	6,296
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,885	1,885
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 2,366	2,366
BlackRock Advisors, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 3,428	3,428
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,129	1,129
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,960	1,960
BlackRock Investment Management, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 957	957
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 2,208	2,208
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 3,642	3,642
BlackRock Advisors, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 2,575	2,575
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,826	1,826
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 2,306	2,306
BlackRock Investment Management, LLC	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,277	1,277
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.27	on mkt buy	AUD	ORD 1,810	1,810
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,169	2,169
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,325	2,325
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,141	1,141
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,651	2,651
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,431	1,431
BlackRock Advisors, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 8,925	8,925
BlackRock Advisors, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,073	2,073
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 684	684
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,187	1,187
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 6,777	6,777
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,684	2,684
BlackRock Investment Management, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 581	581
BlackRock International Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 3,637	3,637
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 15,249	15,249
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,335	1,335
BlackRock Investment Management, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 4,968	4,968

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.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 2,202	2,202
BlackRock Advisors, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,557	1,557
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 32,525	32,525
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 4,887	4,887
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 6,037	6,037
BlackRock Advisors (UK) Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 4,734	4,734
BlackRock Advisors (UK) Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 3,756	3,756
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,105	1,105
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,395	1,395
BlackRock Asset Management Canada Limited	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 7,549	7,549
BlackRock Investment Management, LLC	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 774	774
BLACKROCK FINANCIAL MANAGEMENT, INC.	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 1,095	1,095
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 15,516	15,516
BlackRock Institutional Trust Company, National Association	15-Nov-19	yes	8.22	on mkt buy	AUD	ORD 9,051	9,051
BlackRock Investment Management (Australia) Limited	15-Nov-19	yes	8.29	on mkt buy	AUD	ORD 4,504	4,504
BlackRock Fund Advisors	18-Nov-19	no	n/a	in specie	AUD	ORD 4,080	4,080
BlackRock Institutional Trust Company, National Association	18-Nov-19	yes	8.18	on mkt buy	AUD	ORD 11,776	11,776
BlackRock Institutional Trust Company, National Association	18-Nov-19	yes	8.18	on mkt buy	AUD	ORD 7,922	7,922
BlackRock Investment Management (Australia) Limited	18-Nov-19	yes	8.18	on mkt buy	AUD	ORD 4,504	4,504
BlackRock Fund Advisors	19-Nov-19	no	n/a	in specie	AUD	ORD 12,736	12,736
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.09	on mkt buy	AUD	ORD 8,019	8,019
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.09	on mkt buy	AUD	ORD 10,025	10,025
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 4,248	4,248
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 11,725	11,725
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 5,681	5,681
BlackRock Advisors, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 35,453	35,453
BlackRock Advisors, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 6,769	6,769
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 2,732	2,732
BlackRock Asset Management Canada Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 4,843	4,843
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 27,158	27,158
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 10,995	10,995
BlackRock Investment Management, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 2,302	2,302
BlackRock International Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 14,319	14,319
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 54,413	54,413
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 5,793	5,793
BlackRock Investment Management, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 9,577	9,577
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 7,749	7,749
BlackRock Advisors, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 6,139	6,139
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 128,249	128,249
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 19,417	19,417
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 22,941	22,941
BlackRock Advisors (UK) Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 19,440	19,440
BlackRock Advisors (UK) Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 15,289	15,289
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 4,387	4,387
BlackRock Asset Management Canada Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD 5,538	5,538

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 Asset Management Canada Limited	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD	26,020	26,020
BlackRock Investment Management, LLC	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD	3,003	3,003
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD	4,681	4,681
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD	64,722	64,722
BlackRock Institutional Trust Company, National Association	19-Nov-19	yes	8.08	on mkt buy	AUD	ORD	35,957	35,957
BLACKROCK FINANCIAL MANAGEMENT, INC.	19-Nov-19	yes	8.09	on mkt buy	AUD	ORD	3,426	3,426
BlackRock Investment Management (Australia) Limited	19-Nov-19	yes	8.09	on mkt buy	AUD	ORD	22,122	22,122
BlackRock Investment Management (UK) Limited	20-Nov-19	yes	8.64	on mkt buy	AUD	ORD	2,662	2,662
BlackRock Investment Management (Australia) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	45,969	45,969
BlackRock Investment Management (Australia) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	1,096	1,096
BlackRock Investment Management (Australia) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	31,280	31,280
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.98	on mkt buy	AUD	ORD	50,340	50,340
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.83	on mkt buy	AUD	ORD	13,147	13,147
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.83	on mkt buy	AUD	ORD	13,448	13,448
BlackRock Investment Management, LLC	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	16,084	16,084
BlackRock Investment Management (UK) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	5,457	5,457
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	6,173	6,173
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	4,530	4,530
BlackRock Advisors (UK) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	4,732	4,732
BlackRock Investment Management (UK) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	988	988
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	2,335	2,335
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	14,460	14,460
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	16,841	16,841
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	18,703	18,703
BlackRock Japan Co., Ltd.	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	14,989	14,989
BlackRock Investment Management, LLC	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	1,034	1,034
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	1,153	1,153
BlackRock Investment Management (UK) Limited	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	23,464	23,464
BlackRock Investment Management, LLC	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	11,561	11,561
BlackRock Investment Management, LLC	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	4,218	4,218
BlackRock Investment Management, LLC	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	1,887	1,887
BlackRock Institutional Trust Company, National Association	20-Nov-19	yes	8.97	on mkt buy	AUD	ORD	2,707	2,707
BlackRock Investment Management (Australia) Limited	20-Nov-19	yes	9.06	on mkt buy	AUD	ORD	4,504	4,504
BLACKROCK FINANCIAL MANAGEMENT, INC.	20-Nov-19	yes	9.06	on mkt buy	AUD	ORD	4,010	4,010
BlackRock Advisors (UK) Limited	20-Nov-19	yes	9.06	on mkt buy	AUD	ORD	656	656
BlackRock Advisors (UK) Limited	20-Nov-19	yes	9.06	on mkt buy	AUD	ORD	656	656
BlackRock Fund Advisors	20-Nov-19	no	n/a	in specie	AUD	ORD	1,002	1,002
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.90	on mkt buy	AUD	ORD	3,699	3,699
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.90	on mkt buy	AUD	ORD	2,661	2,661
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	5,148	5,148
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	4,007	4,007
BlackRock Advisors, LLC	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	13,714	13,714
BlackRock Advisors, LLC	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	2,749	2,749
BLACKROCK FINANCIAL MANAGEMENT, INC.	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	1,622	1,622
BlackRock Asset Management Canada Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	2,433	2,433
BlackRock Investment Management (UK) Limited	21-Nov-19	yes	8.90	on mkt buy	AUD	ORD	6,754	6,754
BLACKROCK FINANCIAL MANAGEMENT, INC.	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD	19,910	19,910

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.	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 8,294	8,294
BlackRock Investment Management, LLC	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 1,622	1,622
BlackRock International Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 6,746	6,746
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 37,583	37,583
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 3,358	3,358
BlackRock Advisors, LLC	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 2,864	2,864
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 37,820	37,820
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 6,754	6,754
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 16,579	16,579
BlackRock Advisors (UK) Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 8,691	8,691
BlackRock Advisors (UK) Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 6,744	6,744
BLACKROCK FINANCIAL MANAGEMENT, INC.	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 3,197	3,197
BlackRock Investment Management (UK) Limited	21-Nov-19	yes	8.90	on mkt buy	AUD	ORD 15,459	15,459
BlackRock Asset Management Canada Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 2,135	2,135
BlackRock Asset Management Canada Limited	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 10,281	10,281
BlackRock Investment Management, LLC	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 1,826	1,826
BLACKROCK FINANCIAL MANAGEMENT, INC.	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 3,170	3,170
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 21,672	21,672
BlackRock Institutional Trust Company, National Association	21-Nov-19	yes	8.92	on mkt buy	AUD	ORD 16,643	16,643
BlackRock Investment Management (Australia) Limited	21-Nov-19	yes	8.91	on mkt buy	AUD	ORD 2,252	2,252
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.75	on mkt buy	AUD	ORD 1,623	1,623
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.75	on mkt buy	AUD	ORD 1,616	1,616
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 3,016	3,016
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 3,459	3,459
BlackRock Advisors, LLC	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 10,741	10,741
BlackRock International Limited	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 5,292	5,292
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 19,022	19,022
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 1,756	1,756
BlackRock Advisors, LLC	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 2,366	2,366
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 44,594	44,594
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 6,716	6,716
BlackRock Advisors (UK) Limited	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 4,465	4,465
BlackRock Advisors (UK) Limited	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 3,572	3,572
BLACKROCK FINANCIAL MANAGEMENT, INC.	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 3,090	3,090
BlackRock Asset Management Canada Limited	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 1,965	1,965
BlackRock Asset Management Canada Limited	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 8,993	8,993
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 20,876	20,876
BlackRock Institutional Trust Company, National Association	22-Nov-19	yes	8.74	on mkt buy	AUD	ORD 11,308	11,308
BlackRock Fund Advisors	22-Nov-19	no	n/a	in specie	AUD	ORD 5,174	5,174
BlackRock Institutional Trust Company, National Association	25-Nov-19	yes	8.56	on mkt buy	AUD	ORD 1,348	1,348
BlackRock Institutional Trust Company, National Association	25-Nov-19	yes	8.56	on mkt buy	AUD	ORD 1,336	1,336
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.75	on mkt buy	AUD	ORD 1,611	1,611
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.75	on mkt buy	AUD	ORD 1,665	1,665
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD 2,243	2,243

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	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	5,063	5,063
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	3,955	3,955
BlackRock Advisors, LLC	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	8,793	8,793
BlackRock Advisors, LLC	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	2,474	2,474
BlackRock Asset Management Canada Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	2,281	2,281
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	12,350	12,350
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	5,117	5,117
BlackRock International Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	6,902	6,902
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	24,089	24,089
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	2,370	2,370
BlackRock Investment Management, LLC	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	2,954	2,954
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	3,479	3,479
BlackRock Advisors, LLC	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	1,778	1,778
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	34,357	34,357
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	5,357	5,357
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	11,606	11,606
BlackRock Advisors (UK) Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	7,601	7,601
BlackRock Advisors (UK) Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	6,021	6,021
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	3,000	3,000
BlackRock Asset Management Canada Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	1,716	1,716
BlackRock Asset Management Canada Limited	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	8,607	8,607
BLACKROCK FINANCIAL MANAGEMENT, INC.	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	2,413	2,413
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	16,344	16,344
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.77	on mkt buy	AUD	ORD	11,069	11,069
BlackRock Investment Management (Australia) Limited	26-Nov-19	yes	8.79	on mkt buy	AUD	ORD	103	103
BlackRock Investment Management (Australia) Limited	26-Nov-19	yes	8.79	on mkt buy	AUD	ORD	4,164	4,164
BlackRock Institutional Trust Company, National Association	26-Nov-19	yes	8.79	on mkt buy	AUD	ORD	90,699	90,699
BlackRock Fund Advisors	26-Nov-19	no	n/a	in specie	AUD	ORD	12,345	12,345
BlackRock Investment Management (Australia) Limited	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	28,799	28,799
BlackRock Investment Management (Australia) Limited	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	6,097	6,097
BlackRock Investment Management (UK) Limited	27-Nov-19	yes	8.71	on mkt buy	AUD	ORD	195	195
BlackRock Japan Co., Ltd.	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	16,778	16,778
BlackRock Investment Management (UK) Limited	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	6,252	6,252
BlackRock Investment Management, LLC	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	5,861	5,861
BlackRock Institutional Trust Company, National Association	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	2,261	2,261
BlackRock Japan Co., Ltd.	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	3,428	3,428
BlackRock Japan Co., Ltd.	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	3,970	3,970
BlackRock Japan Co., Ltd.	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	4,961	4,961
BlackRock Japan Co., Ltd.	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	3,904	3,904
BlackRock Investment Management, LLC	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	2,908	2,908
BlackRock Institutional Trust Company, National Association	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	1,251	1,251
BlackRock Institutional Trust Company, National Association	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	1,232	1,232
BlackRock Institutional Trust Company, National Association	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	1,727	1,727
BlackRock Advisors (UK) Limited	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	1,699	1,699
BlackRock Investment Management (UK) Limited	27-Nov-19	yes	8.70	on mkt buy	AUD	ORD	72,777	72,777
BlackRock Fund Advisors	27-Nov-19	no	n/a	in specie	AUD	ORD	24,680	24,680
BlackRock Fund Advisors	27-Nov-19	no	n/a	in specie	AUD	ORD	12,340	12,340

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	27-Nov-19	no	n/a	in specie	AUD	ORD	6,400	6,400
BlackRock Investment Management (UK) Limited	28-Nov-19	yes	8.77	on mkt buy	AUD	ORD	27,216	27,216
BlackRock Investment Management (Australia) Limited	28-Nov-19	yes	8.94	on mkt buy	AUD	ORD	4,504	4,504
BlackRock Investment Management (UK) Limited	29-Nov-19	yes	9.04	on mkt buy	AUD	ORD	1,958	1,958
BlackRock Investment Management (UK) Limited	29-Nov-19	yes	9.04	on mkt buy	AUD	ORD	4,458	4,458
BlackRock Fund Advisors	29-Nov-19	no	n/a	in specie	AUD	ORD	9,880	9,880
BlackRock Investment Management (UK) Limited	03-Dec-19	yes	9.00	on mkt buy	AUD	ORD	46,011	46,011
BlackRock Institutional Trust Company, National Association	03-Dec-19	yes	8.90	on mkt buy	AUD	ORD	2,867	2,867
BlackRock Fund Advisors	03-Dec-19	no	n/a	in specie	AUD	ORD	12,345	12,345
BlackRock Investment Management (UK) Limited	04-Dec-19	yes	8.97	on mkt buy	AUD	ORD	391,647	391,647
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	8.99	on mkt buy	AUD	ORD	9,759	9,759
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	8.99	on mkt buy	AUD	ORD	1,263	1,263
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	8.99	on mkt buy	AUD	ORD	3,905	3,905
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	9.00	on mkt buy	AUD	ORD	563	563
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	9.00	on mkt buy	AUD	ORD	3,378	3,378
BlackRock Investment Management (UK) Limited	04-Dec-19	yes	9.00	on mkt buy	AUD	ORD	65,543	65,543
BlackRock Investment Management (Australia) Limited	04-Dec-19	yes	9.00	on mkt buy	AUD	ORD	8,440	8,440
BlackRock Fund Advisors	04-Dec-19	no	n/a	in specie	AUD	ORD	4,938	4,938
BlackRock Fund Advisors	04-Dec-19	no	n/a	in specie	AUD	ORD	9,876	9,876

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

06-Dec-19

Maria Tricarico,
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 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 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)