

Form 603

Corporations Act 2001
Section 671B

Notice of initial substantial holder

To Company Name/Scheme CSR LIMITED

ACN/ARSN 000 001 276

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 31 / 10 / 2018

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	25,253,317	25,253,317	5.00

3. Details of relevant interests

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

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

4. Details of present registered holders

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

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

5. Consideration

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

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

6. Associates

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

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

7. Addresses

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

Name	Address
see Annexure C	

Signature

print name Bradley Taylor

capacity Authorised Signatory*

sign here

date 02 / 11 / 2018

* 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.

02-Nov-18

Bradley Taylor,
Authorised Signatory

Date

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

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 65,533	65,533	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 740,849	740,849	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 87,390	87,390	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 38,393	38,393	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 54,741	54,741	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.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 86,263	86,263	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 160,271	160,271	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 33,327	33,327	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 148,768	148,768	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 34,578	34,578	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 383	383	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC, HONG KONG		ORD 2,591	2,591	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 288,518	288,518	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 8,590	8,590	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 1,365	1,365	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 656,719	656,719	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 78,850	78,850	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 4,655,000	4,655,000	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 273,572	273,572	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.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 226,213	226,213	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 12,661	12,661	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.	CS-CREDIT SUISSE PRIME BROKERAGE - ZURICH		ORD 46,197	46,197	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.	GS-GOLDMAN SACHS PRIME BROKER - NEW YORK		ORD 12,376	12,376	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 4,401,649	4,401,649	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 121,776	121,776	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 6,598	6,598	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.	RBC-ROYAL TRUST - TORONTO		ORD 6,194	6,194	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 167,128	167,128	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 793,619	793,619	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 BANK, BOSTON		ORD 6,026	6,026	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 1,688	1,688	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 290,233	290,233	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 37,409	37,409	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 300,063	300,063	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 405,955	405,955	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 1,303,675	1,303,675	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 2,834,198	2,834,198	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 351,868	351,868	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UBS- UBS- ZURICH		ORD 1,199,694	1,199,694	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 165,447	165,447	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ORD 224,701	224,701	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 1,699	1,699	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 22,785	22,785	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 370,638	370,638	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 220,683	220,683	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 33,816	33,816	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 353,460	353,460	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 2,840	2,840	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 60,336	60,336	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 216,032	216,032	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 115,516	115,516	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 34,360	34,360	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 2,034	2,034	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 2,703	2,703	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 43,105	43,105	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UNION BANK		ORD 47,229	47,229	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 5,406	5,406	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 56,869	56,869	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.	MITSUMI-SUMITOMO TRUST		ORD 67,631	67,631	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 350,420	350,420	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 443,301	443,301	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 55,940	55,940	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.	SSB-STATE STREET AUSTRALIA		ORD 194,767	194,767	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 2,220,678	2,220,678	subsidiary of BlackRock Inc.

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

02-Nov-18
Bradley Taylor,
Authorised Signatory
Date

5. Consideration

CSR LIMITED (CSR)									
Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected		Person's votes affected	
			Cash	Non-cash	CCY				
BlackRock Fund Advisors	03-Jul-18	yes	4.61	on mkt buy	AUD	ORD	29,487	29,487	
BlackRock Investment Management (Australia) Limited	04-Jul-18	yes	4.54	on mkt buy	AUD	ORD	77,890	77,890	
BlackRock Fund Advisors	05-Jul-18	no	n/a	in specie	AUD	ORD	2,927	2,927	
BlackRock Institutional Trust Company, National Association	06-Jul-18	yes	4.54	on mkt buy	AUD	ORD	30,333	30,333	
BlackRock Investment Management (Australia) Limited	10-Jul-18	yes	4.55	on mkt buy	AUD	ORD	43,719	43,719	
BlackRock Investment Management (Australia) Limited	12-Jul-18	yes	4.50	on mkt buy	AUD	ORD	84,017	84,017	
BlackRock Institutional Trust Company, National Association	13-Jul-18	yes	4.49	on mkt buy	AUD	ORD	1,558	1,558	
BlackRock Institutional Trust Company, National Association	13-Jul-18	yes	4.49	on mkt buy	AUD	ORD	3,763	3,763	
BlackRock Institutional Trust Company, National Association	16-Jul-18	yes	4.46	on mkt buy	AUD	ORD	2,688	2,688	
BlackRock Investment Management (UK) Limited	16-Jul-18	yes	4.47	on mkt buy	AUD	ORD	9,219	9,219	
BlackRock Institutional Trust Company, National Association	17-Jul-18	yes	4.44	on mkt buy	AUD	ORD	4,055	4,055	
BlackRock Investment Management (Australia) Limited	17-Jul-18	yes	4.44	on mkt buy	AUD	ORD	12,970	12,970	
BlackRock Investment Management (Australia) Limited	18-Jul-18	yes	4.44	on mkt buy	AUD	ORD	54,156	54,156	
BlackRock Investment Management (Australia) Limited	18-Jul-18	yes	4.44	on mkt buy	AUD	ORD	50,425	50,425	
BlackRock Institutional Trust Company, National Association	18-Jul-18	yes	4.44	on mkt buy	AUD	ORD	760	760	
BlackRock Investment Management (Australia) Limited	19-Jul-18	yes	4.41	on mkt buy	AUD	ORD	41,639	41,639	
BlackRock Institutional Trust Company, National Association	23-Jul-18	yes	4.06	on mkt buy	AUD	ORD	3,336	3,336	
BlackRock Fund Advisors	23-Jul-18	no	n/a	in specie	AUD	ORD	5,550	5,550	
BlackRock Investment Management (Australia) Limited	24-Jul-18	yes	4.11	on mkt buy	AUD	ORD	26,787	26,787	
BlackRock Investment Management (Australia) Limited	24-Jul-18	yes	4.11	on mkt buy	AUD	ORD	43,264	43,264	
BlackRock Institutional Trust Company, National Association	25-Jul-18	yes	4.21	on mkt buy	AUD	ORD	1,639	1,639	
BlackRock Investment Management (Australia) Limited	25-Jul-18	yes	4.21	on mkt buy	AUD	ORD	75,586	75,586	
BlackRock Investment Management (Australia) Limited	25-Jul-18	yes	4.22	on mkt buy	AUD	ORD	3,560	3,560	
BlackRock Fund Advisors	25-Jul-18	no	n/a	in specie	AUD	ORD	16,650	16,650	
BlackRock Investment Management (Australia) Limited	26-Jul-18	yes	4.18	on mkt buy	AUD	ORD	45,385	45,385	
BlackRock Institutional Trust Company, National Association	27-Jul-18	yes	4.24	on mkt buy	AUD	ORD	94,834	94,834	
BlackRock Investment Management (Australia) Limited	31-Jul-18	yes	4.24	on mkt buy	AUD	ORD	84,920	84,920	
BlackRock Investment Management (Australia) Limited	31-Jul-18	yes	4.24	on mkt buy	AUD	ORD	132,270	132,270	
BlackRock Fund Advisors	31-Jul-18	no	n/a	in specie	AUD	ORD	1,120	1,120	
BlackRock Investment Management (Australia) Limited	01-Aug-18	yes	4.28	on mkt buy	AUD	ORD	55,187	55,187	
BlackRock Investment Management (Australia) Limited	01-Aug-18	yes	4.28	on mkt buy	AUD	ORD	51,851	51,851	
BlackRock Advisors (UK) Limited	01-Aug-18	yes	4.28	on mkt buy	AUD	ORD	1,238	1,238	
BlackRock Fund Advisors	01-Aug-18	no	n/a	in specie	AUD	ORD	1,280	1,280	
BlackRock Investment Management (Australia) Limited	02-Aug-18	yes	4.17	on mkt buy	AUD	ORD	59,850	59,850	
BlackRock Fund Advisors	02-Aug-18	no	n/a	in specie	AUD	ORD	6,105	6,105	

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	02-Aug-18	no	n/a	in specie	AUD	ORD 8,140	8,140
BlackRock Advisors, LLC	06-Aug-18	yes	4.20	on mkt buy	AUD	ORD 20,228	20,228
BlackRock Fund Advisors	06-Aug-18	no	n/a	in specie	AUD	ORD 6,105	6,105
BlackRock Advisors, LLC	08-Aug-18	yes	4.32	on mkt buy	AUD	ORD 12,202	12,202
BlackRock Investment Management (Australia) Limited	08-Aug-18	yes	4.32	on mkt buy	AUD	ORD 86,910	86,910
BlackRock Investment Management, LLC	08-Aug-18	yes	4.32	on mkt buy	AUD	ORD 16,597	16,597
BlackRock Investment Management (Australia) Limited	08-Aug-18	yes	4.33	on mkt buy	AUD	ORD 79,201	79,201
BlackRock Investment Management (Australia) Limited	08-Aug-18	yes	4.33	on mkt buy	AUD	ORD 17,322	17,322
BlackRock Investment Management (Australia) Limited	08-Aug-18	yes	4.33	on mkt buy	AUD	ORD 37,953	37,953
BlackRock Institutional Trust Company, National Association	09-Aug-18	yes	4.31	on mkt buy	AUD	ORD 1,503	1,503
BlackRock Institutional Trust Company, National Association	09-Aug-18	yes	4.31	on mkt buy	AUD	ORD 4,557	4,557
BlackRock Investment Management (Australia) Limited	09-Aug-18	yes	4.31	on mkt buy	AUD	ORD 77,869	77,869
BlackRock Financial Management, Inc.	09-Aug-18	yes	4.31	on mkt buy	AUD	ORD 4,067	4,067
BlackRock Fund Advisors	09-Aug-18	no	n/a	in specie	AUD	ORD 1,600	1,600
BlackRock Investment Management (UK) Limited	09-Aug-18	no	n/a	in specie	AUD	ORD 4,223	4,223
BlackRock Institutional Trust Company, National Association	10-Aug-18	yes	4.28	on mkt buy	AUD	ORD 333	333
BlackRock Advisors, LLC	10-Aug-18	yes	4.28	on mkt buy	AUD	ORD 8,682	8,682
BlackRock Investment Management, LLC	10-Aug-18	yes	4.28	on mkt buy	AUD	ORD 24,114	24,114
BlackRock Fund Advisors	10-Aug-18	no	n/a	in specie	AUD	ORD 3,200	3,200
BlackRock Institutional Trust Company, National Association	13-Aug-18	yes	4.22	on mkt buy	AUD	ORD 1,102	1,102
BlackRock Institutional Trust Company, National Association	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 938	938
BlackRock Investment Management (Australia) Limited	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 13,063	13,063
BlackRock Investment Management, LLC	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 8,934	8,934
BlackRock Institutional Trust Company, National Association	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 1,806	1,806
BlackRock Investment Management (UK) Limited	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 8,171	8,171
BlackRock Investment Management (UK) Limited	14-Aug-18	yes	4.25	on mkt buy	AUD	ORD 9,847	9,847
BlackRock Investment Management (Australia) Limited	14-Aug-18	yes	4.26	on mkt buy	AUD	ORD 3,560	3,560
BlackRock Institutional Trust Company, National Association	15-Aug-18	yes	4.29	on mkt buy	AUD	ORD 1,381	1,381
BlackRock Fund Advisors	15-Aug-18	no	n/a	in specie	AUD	ORD 8,325	8,325
BlackRock Investment Management (Australia) Limited	16-Aug-18	yes	4.22	on mkt buy	AUD	ORD 4,270	4,270
BlackRock Institutional Trust Company, National Association	17-Aug-18	yes	4.30	on mkt buy	AUD	ORD 4,855	4,855
BlackRock Advisors, LLC	17-Aug-18	yes	4.30	on mkt buy	AUD	ORD 4,001	4,001
BlackRock Investment Management, LLC	17-Aug-18	yes	4.30	on mkt buy	AUD	ORD 6,530	6,530
BlackRock Advisors (UK) Limited	17-Aug-18	yes	4.34	on mkt buy	AUD	ORD 619	619
BlackRock Institutional Trust Company, National Association	20-Aug-18	yes	4.41	on mkt buy	AUD	ORD 512	512
BlackRock Fund Advisors	21-Aug-18	no	n/a	in specie	AUD	ORD 11,708	11,708
BlackRock Advisors, LLC	22-Aug-18	yes	4.44	on mkt buy	AUD	ORD 2,804	2,804
BlackRock Institutional Trust Company, National Association	23-Aug-18	yes	4.37	on mkt buy	AUD	ORD 1,291	1,291
BlackRock Advisors, LLC	27-Aug-18	yes	4.27	on mkt buy	AUD	ORD 4,235	4,235
BlackRock Investment Management (Australia) Limited	28-Aug-18	yes	4.28	on mkt buy	AUD	ORD 10,199	10,199
BlackRock Institutional Trust Company, National Association	30-Aug-18	yes	4.33	on mkt buy	AUD	ORD 4,002	4,002
BlackRock Institutional Trust Company, National Association	31-Aug-18	yes	4.33	on mkt buy	AUD	ORD 1,766	1,766
BlackRock Institutional Trust Company, National Association	03-Sep-18	yes	4.30	on mkt buy	AUD	ORD 1,756	1,756
BlackRock Institutional Trust Company, National Association	05-Sep-18	yes	4.25	on mkt buy	AUD	ORD 1,005	1,005
BlackRock Advisors, LLC	05-Sep-18	yes	4.26	on mkt buy	AUD	ORD 4,447	4,447
BlackRock Investment Management, LLC	05-Sep-18	yes	4.26	on mkt buy	AUD	ORD 7,662	7,662
BlackRock Institutional Trust Company, National Association	05-Sep-18	yes	4.25	on mkt buy	AUD	ORD 4,949	4,949
BlackRock Fund Advisors	05-Sep-18	no	n/a	in specie	AUD	ORD 4,000	4,000

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BlackRock Fund Advisors	07-Sep-18	no	n/a	in specie	AUD	ORD 1,600	1,600
BlackRock Fund Advisors	07-Sep-18	no	n/a	in specie	AUD	ORD 8,954	8,954
BlackRock Fund Advisors	07-Sep-18	no	n/a	in specie	AUD	ORD 6,919	6,919
BlackRock Institutional Trust Company, National Association	10-Sep-18	yes	4.19	on mkt buy	AUD	ORD 1,124	1,124
BlackRock Investment Management (Australia) Limited	10-Sep-18	yes	4.18	on mkt buy	AUD	ORD 2,440	2,440
BlackRock Fund Advisors	10-Sep-18	no	n/a	in specie	AUD	ORD 1,920	1,920
BlackRock Institutional Trust Company, National Association	11-Sep-18	yes	4.12	on mkt buy	AUD	ORD 1,420	1,420
BlackRock Investment Management (Australia) Limited	11-Sep-18	yes	4.12	on mkt buy	AUD	ORD 5,770	5,770
BlackRock Investment Management (Australia) Limited	12-Sep-18	yes	4.07	on mkt buy	AUD	ORD 15,226	15,226
BlackRock Institutional Trust Company, National Association	13-Sep-18	yes	3.98	on mkt buy	AUD	ORD 3,795	3,795
BlackRock Institutional Trust Company, National Association	13-Sep-18	yes	3.98	on mkt buy	AUD	ORD 11,916	11,916
BlackRock Institutional Trust Company, National Association	14-Sep-18	yes	3.94	on mkt buy	AUD	ORD 5,089	5,089
BlackRock Investment Management (UK) Limited	14-Sep-18	no	n/a	in specie	AUD	ORD 2,753	2,753
BlackRock Investment Management (UK) Limited	14-Sep-18	no	n/a	in specie	AUD	ORD 4,853	4,853
BlackRock Institutional Trust Company, National Association	17-Sep-18	yes	3.94	on mkt buy	AUD	ORD 657	657
BlackRock Institutional Trust Company, National Association	17-Sep-18	yes	3.94	on mkt buy	AUD	ORD 2,513	2,513
BlackRock Investment Management (Australia) Limited	17-Sep-18	yes	3.95	on mkt buy	AUD	ORD 3,560	3,560
BlackRock Institutional Trust Company, National Association	18-Sep-18	yes	3.82	on mkt buy	AUD	ORD 647	647
BlackRock Institutional Trust Company, National Association	18-Sep-18	yes	3.82	on mkt buy	AUD	ORD 3,981	3,981
BlackRock Investment Management (Australia) Limited	18-Sep-18	yes	3.82	on mkt buy	AUD	ORD 8,667	8,667
BlackRock Institutional Trust Company, National Association	19-Sep-18	yes	3.90	on mkt buy	AUD	ORD 3,681	3,681
BlackRock Investment Management (Australia) Limited	19-Sep-18	yes	3.90	on mkt buy	AUD	ORD 11,675	11,675
BlackRock Institutional Trust Company, National Association	19-Sep-18	yes	3.90	on mkt buy	AUD	ORD 18,452	18,452
BlackRock Institutional Trust Company, National Association	19-Sep-18	yes	3.90	on mkt buy	AUD	ORD 791	791
BlackRock Advisors, LLC	20-Sep-18	yes	3.88	on mkt buy	AUD	ORD 2,664	2,664
BlackRock Investment Management (Australia) Limited	20-Sep-18	yes	3.88	on mkt buy	AUD	ORD 84,325	84,325
BlackRock Investment Management, LLC	20-Sep-18	yes	3.88	on mkt buy	AUD	ORD 12,049	12,049
BlackRock Institutional Trust Company, National Association	21-Sep-18	yes	3.88	on mkt buy	AUD	ORD 3,190	3,190
BlackRock Institutional Trust Company, National Association	21-Sep-18	yes	3.88	on mkt buy	AUD	ORD 24,748	24,748
BlackRock Asset Management Canada Limited	21-Sep-18	yes	3.88	on mkt buy	AUD	ORD 7,008	7,008
BlackRock Institutional Trust Company, National Association	21-Sep-18	yes	3.88	on mkt buy	AUD	ORD 14,940	14,940
BlackRock Institutional Trust Company, National Association	21-Sep-18	yes	3.88	on mkt buy	AUD	ORD 11,194	11,194
BlackRock Advisors (UK) Limited	21-Sep-18	yes	3.86	on mkt buy	AUD	ORD 619	619
BlackRock Institutional Trust Company, National Association	21-Sep-18	yes	3.86	on mkt buy	AUD	ORD 33,890	33,890
BlackRock Institutional Trust Company, National Association	24-Sep-18	yes	3.86	on mkt buy	AUD	ORD 6,891	6,891
BlackRock Institutional Trust Company, National Association	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 6,319	6,319
BlackRock Advisors, LLC	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 10,127	10,127
BlackRock Japan Co., Ltd.	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 3,566	3,566
BlackRock Advisors, LLC	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 5,349	5,349
BlackRock Investment Management, LLC	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 24,789	24,789
BlackRock Institutional Trust Company, National Association	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 2,921	2,921
BlackRock Institutional Trust Company, National Association	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 35,649	35,649
BlackRock Asset Management Canada Limited	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD 14,022	14,022

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BlackRock Institutional Trust Company, National Association	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD	35,246	35,246
BlackRock Institutional Trust Company, National Association	25-Sep-18	yes	3.89	on mkt buy	AUD	ORD	17,858	17,858
BlackRock Institutional Trust Company, National Association	26-Sep-18	yes	3.83	on mkt buy	AUD	ORD	4,409	4,409
BlackRock Investment Management (Australia) Limited	26-Sep-18	yes	3.82	on mkt buy	AUD	ORD	4,946	4,946
BlackRock Investment Management (Australia) Limited	26-Sep-18	yes	3.81	on mkt buy	AUD	ORD	4,270	4,270
BlackRock Advisors (UK) Limited	26-Sep-18	yes	3.81	on mkt buy	AUD	ORD	1,238	1,238
BlackRock Fund Advisors	26-Sep-18	no	n/a	in specie	AUD	ORD	1,628	1,628
BlackRock Institutional Trust Company, National Association	27-Sep-18	yes	3.85	on mkt buy	AUD	ORD	1,882	1,882
BlackRock Institutional Trust Company, National Association	27-Sep-18	yes	3.85	on mkt buy	AUD	ORD	7,128	7,128
BlackRock Fund Advisors	27-Sep-18	yes	3.86	on mkt buy	AUD	ORD	44,512	44,512
BlackRock Fund Advisors	27-Sep-18	no	n/a	in specie	AUD	ORD	1,440	1,440
BlackRock Investment Management (Australia) Limited	28-Sep-18	yes	3.78	on mkt buy	AUD	ORD	72,494	72,494
BlackRock Advisors, LLC	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	8,195	8,195
BlackRock Investment Management, LLC	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	27,836	27,836
BlackRock Institutional Trust Company, National Association	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	6,263	6,263
BlackRock Asset Management Canada Limited	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	8,550	8,550
BlackRock Institutional Trust Company, National Association	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	17,623	17,623
BlackRock Institutional Trust Company, National Association	28-Sep-18	yes	3.79	on mkt buy	AUD	ORD	13,847	13,847
BlackRock Fund Advisors	28-Sep-18	no	n/a	in specie	AUD	ORD	15,429	15,429
BlackRock Fund Advisors	28-Sep-18	no	n/a	in specie	AUD	ORD	6,255	6,255
BlackRock Institutional Trust Company, National Association	01-Oct-18	yes	3.75	on mkt buy	AUD	ORD	3,592	3,592
BlackRock Institutional Trust Company, National Association	01-Oct-18	yes	3.75	on mkt buy	AUD	ORD	14,375	14,375
BlackRock Advisors (UK) Limited	01-Oct-18	yes	3.75	on mkt buy	AUD	ORD	619	619
BlackRock Advisors, LLC	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	22,692	22,692
BlackRock Investment Management (Australia) Limited	02-Oct-18	yes	3.71	on mkt buy	AUD	ORD	59,310	59,310
BlackRock Japan Co., Ltd.	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	3,520	3,520
BlackRock Japan Co., Ltd.	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	4,080	4,080
BlackRock Advisors, LLC	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	15,702	15,702
BlackRock Investment Management, LLC	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	63,357	63,357
BlackRock Institutional Trust Company, National Association	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	4,234	4,234
BlackRock Institutional Trust Company, National Association	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	66,327	66,327
BlackRock Institutional Trust Company, National Association	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	11,279	11,279
BlackRock Asset Management Canada Limited	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	16,581	16,581
BlackRock Investment Management (UK) Limited	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	13,666	13,666
BlackRock Institutional Trust Company, National Association	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	28,033	28,033
BlackRock Institutional Trust Company, National Association	02-Oct-18	yes	3.72	on mkt buy	AUD	ORD	27,110	27,110
BlackRock Institutional Trust Company, National Association	03-Oct-18	yes	3.75	on mkt buy	AUD	ORD	1,623	1,623
BlackRock Institutional Trust Company, National Association	03-Oct-18	yes	3.75	on mkt buy	AUD	ORD	11,738	11,738
BlackRock Investment Management (Australia) Limited	03-Oct-18	yes	3.76	on mkt buy	AUD	ORD	96,862	96,862
BlackRock Investment Management (Australia) Limited	03-Oct-18	yes	3.76	on mkt buy	AUD	ORD	61,327	61,327
BlackRock Investment Management (Australia) Limited	03-Oct-18	yes	3.76	on mkt buy	AUD	ORD	17,556	17,556
BlackRock Institutional Trust Company, National Association	04-Oct-18	yes	3.79	on mkt buy	AUD	ORD	7,287	7,287
BlackRock Investment Management (Australia) Limited	04-Oct-18	yes	3.79	on mkt buy	AUD	ORD	18,517	18,517
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD	1,984	1,984
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD	10,922	10,922

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BlackRock Advisors, LLC	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 11,972	11,972
BlackRock Advisors, LLC	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 7,095	7,095
BlackRock Financial Management, Inc.	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 26,815	26,815
BlackRock Financial Management, Inc.	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 9,036	9,036
BlackRock Investment Management, LLC	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 45,520	45,520
BlackRock Advisors, LLC	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 4,913	4,913
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 18,711	18,711
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 22,480	22,480
BlackRock Asset Management Canada Limited	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 7,901	7,901
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 20,614	20,614
BlackRock Institutional Trust Company, National Association	05-Oct-18	yes	3.78	on mkt buy	AUD	ORD 19,414	19,414
BlackRock Investment Management (Australia) Limited	05-Oct-18	yes	3.77	on mkt buy	AUD	ORD 460	460
BlackRock Investment Management (Australia) Limited	05-Oct-18	yes	3.77	on mkt buy	AUD	ORD 3,660	3,660
BlackRock Fund Advisors	05-Oct-18	yes	3.77	on mkt buy	AUD	ORD 37,179	37,179
BlackRock Fund Advisors	05-Oct-18	no	n/a	in specie	AUD	ORD 10,842	10,842
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 1,478	1,478
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 7,962	7,962
BlackRock Japan Co., Ltd.	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 3,773	3,773
BlackRock Japan Co., Ltd.	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 3,917	3,917
BlackRock Advisors, LLC	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 13,986	13,986
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 2,435	2,435
BlackRock Advisors, LLC	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 4,141	4,141
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 48,053	48,053
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 9,727	9,727
BlackRock Asset Management Canada Limited	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 14,961	14,961
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 27,978	27,978
BlackRock Institutional Trust Company, National Association	09-Oct-18	yes	3.75	on mkt buy	AUD	ORD 25,893	25,893
BlackRock Advisors (UK) Limited	09-Oct-18	yes	3.74	on mkt buy	AUD	ORD 619	619
BlackRock Fund Advisors	09-Oct-18	no	n/a	in specie	AUD	ORD 11,360	11,360
BlackRock Institutional Trust Company, National Association	10-Oct-18	yes	3.70	on mkt buy	AUD	ORD 5,010	5,010
BlackRock Investment Management (Australia) Limited	10-Oct-18	yes	3.69	on mkt buy	AUD	ORD 80,864	80,864
BlackRock Investment Management (Australia) Limited	10-Oct-18	yes	3.68	on mkt buy	AUD	ORD 1,324	1,324
BlackRock Advisors (UK) Limited	11-Oct-18	yes	3.59	on mkt buy	AUD	ORD 9,285	9,285
BlackRock Fund Advisors	11-Oct-18	no	n/a	in specie	AUD	ORD 16,000	16,000
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.64	on mkt buy	AUD	ORD 8,138	8,138
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 2,518	2,518
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 1,177	1,177
BlackRock Advisors (UK) Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 4,477	4,477
BlackRock Advisors, LLC	12-Oct-18	yes	3.64	on mkt buy	AUD	ORD 769	769
BlackRock Advisors, LLC	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 11,782	11,782
BlackRock Advisors, LLC	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 4,271	4,271
BlackRock Financial Management, Inc.	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 1,365	1,365
BlackRock Asset Management Canada Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 2,788	2,788
BlackRock Financial Management, Inc.	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 12,054	12,054
BlackRock Financial Management, Inc.	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 3,851	3,851
BlackRock Investment Management, LLC	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 2,034	2,034
BlackRock Investment Management (UK) Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 1,699	1,699
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 45,548	45,548
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 2,464	2,464
BlackRock Financial Management, Inc.	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 8,417	8,417

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BlackRock Advisors, LLC	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 2,415	2,415
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 29,615	29,615
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 7,961	7,961
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 10,732	10,732
BlackRock Advisors (UK) Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 5,925	5,925
BlackRock Advisors (UK) Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 5,035	5,035
BlackRock Asset Management Canada Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 8,997	8,997
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 20,784	20,784
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 12,477	12,477
BlackRock Financial Management, Inc.	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 8,590	8,590
BlackRock Institutional Trust Company, National Association	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 14,423	14,423
BlackRock International Limited	12-Oct-18	yes	3.66	on mkt buy	AUD	ORD 22,975	22,975
BlackRock Investment Management (Australia) Limited	12-Oct-18	yes	3.68	on mkt buy	AUD	ORD 44,136	44,136
BlackRock Investment Management (UK) Limited	12-Oct-18	no	n/a	in specie	AUD	ORD 1,375	1,375
BlackRock Investment Management (UK) Limited	12-Oct-18	no	n/a	in specie	AUD	ORD 14,368	14,368
BlackRock Investment Management (Australia) Limited	15-Oct-18	yes	3.53	on mkt buy	AUD	ORD 4,249	4,249
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.60	on mkt buy	AUD	ORD 8,982	8,982
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.60	on mkt buy	AUD	ORD 23,222	23,222
BlackRock International Limited	16-Oct-18	yes	3.60	on mkt buy	AUD	ORD 14,434	14,434
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.58	on mkt buy	AUD	ORD 4,524	4,524
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.58	on mkt buy	AUD	ORD 15,267	15,267
BlackRock Investment Management, LLC	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 9,863	9,863
BlackRock Investment Management (UK) Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 2,840	2,840
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 2,979	2,979
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 4,651	4,651
BlackRock Advisors (UK) Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 3,816	3,816
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 6,335	6,335
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 3,649	3,649
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 4,236	4,236
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 5,406	5,406
BlackRock Japan Co., Ltd.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 4,242	4,242
BlackRock Advisors, LLC	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 26,154	26,154
BlackRock Financial Management, Inc.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 17,652	17,652
BlackRock Financial Management, Inc.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 5,856	5,856
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 59,169	59,169
BlackRock Investment Management, LLC	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 11,129	11,129
BlackRock Advisors, LLC	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 5,725	5,725
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 73,668	73,668
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 18,654	18,654
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 14,873	14,873
BlackRock Investment Management (UK) Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 3,288	3,288
BlackRock Financial Management, Inc.	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 5,151	5,151
BlackRock Investment Management (UK) Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 7,084	7,084
BlackRock Asset Management Canada Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 20,045	20,045
BlackRock Investment Management (UK) Limited	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 10,303	10,303
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 2,521	2,521
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 53,185	53,185

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	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 18,799	18,799
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 2,499	2,499
BlackRock Institutional Trust Company, National Association	16-Oct-18	yes	3.59	on mkt buy	AUD	ORD 546	546
BlackRock Fund Advisors	16-Oct-18	no	n/a	in specie	AUD	ORD 14,400	14,400
BlackRock Institutional Trust Company, National Association	17-Oct-18	yes	3.67	on mkt buy	AUD	ORD 3,905	3,905
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.67	on mkt buy	AUD	ORD 4,022	4,022
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.67	on mkt buy	AUD	ORD 1,767	1,767
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.67	on mkt buy	AUD	ORD 1,249	1,249
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.67	on mkt buy	AUD	ORD 18,926	18,926
BlackRock Institutional Trust Company, National Association	17-Oct-18	yes	3.71	on mkt buy	AUD	ORD 11,280	11,280
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.71	on mkt buy	AUD	ORD 28,281	28,281
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.71	on mkt buy	AUD	ORD 8,778	8,778
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.71	on mkt buy	AUD	ORD 133,076	133,076
BlackRock Advisors (UK) Limited	17-Oct-18	yes	3.72	on mkt buy	AUD	ORD 1,238	1,238
BlackRock Investment Management (Australia) Limited	17-Oct-18	yes	3.72	on mkt buy	AUD	ORD 147,803	147,803
BlackRock Fund Advisors	18-Oct-18	yes	3.70	on mkt buy	AUD	ORD 38,934	38,934
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.69	on mkt buy	AUD	ORD 714	714
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.69	on mkt buy	AUD	ORD 10,740	10,740
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 8,358	8,358
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 4,607	4,607
BlackRock Advisors (UK) Limited	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 3,628	3,628
BlackRock Advisors, LLC	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 15,080	15,080
BlackRock Financial Management, Inc.	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 17,525	17,525
BlackRock Financial Management, Inc.	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 5,678	5,678
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 23,321	23,321
BlackRock Financial Management, Inc.	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 14,231	14,231
BlackRock Advisors, LLC	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 3,470	3,470
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 44,137	44,137
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 10,602	10,602
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 14,425	14,425
BlackRock Advisors (UK) Limited	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 6,215	6,215
BlackRock Advisors (UK) Limited	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 4,987	4,987
BlackRock Financial Management, Inc.	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 4,637	4,637
BlackRock Asset Management Canada Limited	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 12,417	12,417
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 30,620	30,620
BlackRock Institutional Trust Company, National Association	18-Oct-18	yes	3.68	on mkt buy	AUD	ORD 15,595	15,595
BlackRock Investment Management (UK) Limited	18-Oct-18	no	n/a	in specie	AUD	ORD 1,352	1,352
BlackRock Investment Management (UK) Limited	18-Oct-18	no	n/a	in specie	AUD	ORD 3,791	3,791
BlackRock Institutional Trust Company, National Association	19-Oct-18	yes	3.65	on mkt buy	AUD	ORD 966	966
BlackRock Institutional Trust Company, National Association	19-Oct-18	yes	3.65	on mkt buy	AUD	ORD 5,005	5,005
BlackRock Investment Management (Australia) Limited	19-Oct-18	yes	3.66	on mkt buy	AUD	ORD 86,380	86,380
BlackRock Institutional Trust Company, National Association	22-Oct-18	yes	3.58	on mkt buy	AUD	ORD 1,756	1,756
BlackRock Institutional Trust Company, National Association	22-Oct-18	yes	3.58	on mkt buy	AUD	ORD 16,353	16,353
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.47	on mkt buy	AUD	ORD 520	520

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BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.47	on mkt buy	AUD	ORD 7,861	7,861
BlackRock Investment Management, LLC	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 5,485	5,485
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 4,669	4,669
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 902	902
BlackRock Japan Co., Ltd.	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 3,963	3,963
BlackRock Japan Co., Ltd.	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 4,234	4,234
BlackRock Advisors, LLC	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 23,072	23,072
BlackRock Financial Management, Inc.	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 26,729	26,729
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 44,869	44,869
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 14,325	14,325
BlackRock Financial Management, Inc.	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 5,857	5,857
BlackRock Asset Management Canada Limited	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 16,248	16,248
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 41,267	41,267
BlackRock Institutional Trust Company, National Association	23-Oct-18	yes	3.44	on mkt buy	AUD	ORD 22,343	22,343
BlackRock Institutional Trust Company, National Association	24-Oct-18	yes	3.45	on mkt buy	AUD	ORD 106	106
BlackRock Institutional Trust Company, National Association	24-Oct-18	yes	3.45	on mkt buy	AUD	ORD 519	519
BlackRock Institutional Trust Company, National Association	24-Oct-18	yes	3.49	on mkt buy	AUD	ORD 2,169	2,169
BlackRock Institutional Trust Company, National Association	24-Oct-18	yes	3.49	on mkt buy	AUD	ORD 10,575	10,575
BlackRock Investment Management (Australia) Limited	24-Oct-18	yes	3.49	on mkt buy	AUD	ORD 32,657	32,657
BlackRock Investment Management (Australia) Limited	24-Oct-18	yes	3.49	on mkt buy	AUD	ORD 7,239	7,239
BlackRock Investment Management (Australia) Limited	24-Oct-18	yes	3.49	on mkt buy	AUD	ORD 62,789	62,789
BlackRock Advisors (UK) Limited	24-Oct-18	yes	3.48	on mkt buy	AUD	ORD 1,238	1,238
BlackRock Institutional Trust Company, National Association	25-Oct-18	yes	3.36	on mkt buy	AUD	ORD 507	507
BlackRock Institutional Trust Company, National Association	25-Oct-18	yes	3.36	on mkt buy	AUD	ORD 8,208	8,208
BlackRock Institutional Trust Company, National Association	25-Oct-18	yes	3.37	on mkt buy	AUD	ORD 15,576	15,576
BlackRock Institutional Trust Company, National Association	26-Oct-18	yes	3.41	on mkt buy	AUD	ORD 2,688	2,688
BlackRock Institutional Trust Company, National Association	26-Oct-18	yes	3.41	on mkt buy	AUD	ORD 10,558	10,558
BlackRock Advisors (UK) Limited	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 6,383	6,383
BlackRock Advisors, LLC	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 6,383	6,383
BlackRock Institutional Trust Company, National Association	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 31,937	31,937
BlackRock Financial Management, Inc.	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 25,724	25,724
BlackRock Institutional Trust Company, National Association	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 20,497	20,497
BlackRock Advisors (UK) Limited	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 15,433	15,433
BlackRock Advisors (UK) Limited	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 11,877	11,877
BlackRock Institutional Trust Company, National Association	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 7,413	7,413
BlackRock Investment Management (Australia) Limited	26-Oct-18	yes	3.42	on mkt buy	AUD	ORD 28,769	28,769
BlackRock Institutional Trust Company, National Association	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 1,151	1,151
BlackRock Institutional Trust Company, National Association	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 8,125	8,125
BlackRock Investment Management, LLC	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 7,694	7,694
BlackRock Japan Co., Ltd.	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 11,923	11,923
BlackRock Financial Management, Inc.	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 24,878	24,878
BlackRock Institutional Trust Company, National Association	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 42,977	42,977
BlackRock Institutional Trust Company, National Association	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 4,134	4,134
BlackRock Financial Management, Inc.	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 22,740	22,740
BlackRock Advisors (UK) Limited	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 11,909	11,909
BlackRock Advisors (UK) Limited	29-Oct-18	yes	3.45	on mkt buy	AUD	ORD 9,105	9,105
BlackRock Fund Advisors	29-Oct-18	no	n/a	in specie	AUD	ORD 3,520	3,520

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BlackRock Institutional Trust Company, National Association	30-Oct-18	yes	3.52	on mkt buy	AUD	ORD 8,687	8,687
BlackRock Institutional Trust Company, National Association	30-Oct-18	yes	3.52	on mkt buy	AUD	ORD 10,165	10,165
BlackRock Financial Management, Inc.	31-Oct-18	yes	3.53	on mkt buy	AUD	ORD 17,115	17,115
BlackRock Institutional Trust Company, National Association	31-Oct-18	yes	3.54	on mkt buy	AUD	ORD 3,883	3,883
BlackRock Institutional Trust Company, National Association	31-Oct-18	yes	3.54	on mkt buy	AUD	ORD 3,694	3,694
BlackRock Investment Management (Australia) Limited	31-Oct-18	yes	3.54	on mkt buy	AUD	ORD 36,128	36,128
BlackRock Investment Management (Australia) Limited	31-Oct-18	yes	3.54	on mkt buy	AUD	ORD 69,821	69,821
BlackRock Fund Advisors	31-Oct-18	no	n/a	in specie	AUD	ORD 4,480	4,480

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

02-Nov-18

Bradley Taylor,
Authorised Signatory

Date

7. Addresses

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

Name	Address
BlackRock Group	
BlackRock Inc.	55 East 52nd Street New York NY 10055 USA
BlackRock (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands
BlackRock 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)