

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**To Company Name/Scheme SANTOS LIMITEDACN/ARSN 007 550 923**1. Details of substantial holder (1)**Name BlackRock Group (BlackRock Inc. and subsidiaries named in AnnexuresACN/ARSN (if applicable) to this form)The holder became a substantial holder on 26 / 02 / 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	106,924,149	106,924,149	5.13

3. Details of relevant interests

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

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

4. Details of present registered holders

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

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

5. Consideration

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

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

6. Associates

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

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

7. Addresses

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

Name	Address
see Annexure C	

Signature

print name Maria Tricarico

capacity Authorised Signatory*

sign here

date 28 / 02 / 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.

28-Feb-18

Maria Tricarico,
Authorised Signatory

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

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 90,641	90,641	subsidiary of BlackRock Inc.
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	KAS-KAS BANK - AMSTERDAM		ORD 20,948	20,948	subsidiary of BlackRock Inc.
BlackRock (Netherlands) B.V.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ORD 282,443	282,443	subsidiary of BlackRock Inc.
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SINGAPORE		ORD 28,875	28,875	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 3,397,965	3,397,965	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.	CREDIT SUISSE (ZURICH)		ORD 26,979	26,979	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 - J.P. Morgan Zurich		ORD 159,208	159,208	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 1,350,776	1,350,776	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 401,823	401,823	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.	RBC-DEXIA BIL- LONDON		ORD 438,699	438,699	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 4,811,736	4,811,736	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 37,652	37,652	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 26,236	26,236	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 91,157	91,157	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 16,438	16,438	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 1,434,586	1,434,586	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 29,813	29,813	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	RBC-ROYAL TRUST - TORONTO		ORD 6,785	6,785	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-SSB NEW YORK INSTITUTIONAL		ORD 11,442	11,442	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 866,066	866,066	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.	BNYM-BONY EUROPE - LONDON		ORD 8,355	8,355	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIBANK, HONG KONG		ORD 2,185	2,185	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 11,570	11,570	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 2,182	2,182	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 50,055	50,055	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ORD 789	789	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 408,102	408,102	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 - LONDON		ORD 41,864	41,864	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 10,879	10,879	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 5,054	5,054	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 UK		ORD 287,024	287,024	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-SSB NEW YORK INSTITUTIONAL		ORD 541,108	541,108	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 191,259	191,259	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK & TRUST TORONTO		ORD 14,643	14,643	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 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-SSB NEW YORK INSTITUTIONAL		ORD 79,078	79,078	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 280,882	280,882	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ORD 98,828	98,828	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 25,498,193	25,498,193	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.	BNP PARIBAS LON		ORD 131,513	131,513	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 2,092,763	2,092,763	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 13,142	13,142	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 4,841	4,841	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 619	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.	GS-GOLDMAN SACHS PRIME BROKER - NEW YORK		ORD 11,099	11,099	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 242,830	242,830	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 269	269	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 592,572	592,572	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.	RBC-ROYAL TRUST - TORONTO		ORD 20,139	20,139	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 35,913	35,913	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 2,075,077	2,075,077	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ORD 733,761	733,761	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 78,289	78,289	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 23,399,456	23,399,456	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 42,090	42,090	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 132,820	132,820	subsidiary of BlackRock Inc.
BlackRock International Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ORD 641,898	641,898	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 1,072,145	1,072,145	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 513,710	513,710	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 5,292,713	5,292,713	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 1,148,683	1,148,683	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.	AP7		ORD 753,529	753,529	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNP PARIBAS LUX		ORD 10,375	10,375	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 59,318	59,318	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 799,842	799,842	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 9,154,422	9,154,422	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 42,153	42,153	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 832,134	832,134	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 738,101	738,101	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 119,954	119,954	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 10,107	10,107	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	KAS-KAS BANK - AMSTERDAM		ORD 688,194	688,194	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 1,508,983	1,508,983	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SEB-SKANDINAVISKA ENSKILDA BANKEN		ORD 65,899	65,899	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.	SSB-STATE STATE HONG KONG		ORD 78,286	78,286	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 418,687	418,687	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 9,650	9,650	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, GERMANY		ORD 134,769	134,769	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET LONDON		ORD 803,520	803,520	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 41,195	41,195	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-THE BANK OF NEW YORK		ORD 1,050,842	1,050,842	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 1,140,979	1,140,979	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 4,691	4,691	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 28,231	28,231	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.	USB-US BANK		ORD 45,084	45,084	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ORD 25,585	25,585	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD 2,427,102	2,427,102	subsidiary of BlackRock Inc.

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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 76,291	76,291	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.	MITSUI-SUMITOMO TRUST		ORD 35,057	35,057	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET BANK, BOSTON		ORD 26,561	26,561	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.	CITI-Citigroup Australia - SYDNEY		ORD 66,399	66,399	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 1,150,428	1,150,428	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ORD 1,067,192	1,067,192	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 responsible entity.	JPM-JPM CHASE - SYDNEY		ORD 4,171,929	4,171,929	subsidiary of BlackRock Inc.

This is Annexure B of 10 pages referred to in form 603 Notice of initial substantial shareholder

28-Feb-18

Maria Tricarico,
Authorised Signatory

Date

5. Consideration

SANTOS LIMITED (STO)								
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	27-Oct-17	yes	4.35	on mkt buy	AUD	ORD	15,076	15,076
BlackRock Institutional Trust Company, National Association	27-Oct-17	yes	4.35	on mkt buy	AUD	ORD	22,345	22,345
BlackRock Advisors, LLC	30-Oct-17	yes	4.51	on mkt buy	AUD	ORD	19,274	19,274
BlackRock Advisors (UK) Limited	31-Oct-17	yes	4.50	on mkt buy	AUD	ORD	4,192	4,192
BlackRock Advisors (UK) Limited	31-Oct-17	yes	4.50	on mkt buy	AUD	ORD	482	482
BlackRock Asset Management North Asia Limited	31-Oct-17	yes	4.50	on mkt buy	AUD	ORD	10,302	10,302
BlackRock Fund Advisors	31-Oct-17	no	n/a	in specie	AUD	ORD	73,008	73,008
BlackRock Investment Management (Australia) Limited	01-Nov-17	yes	4.57	on mkt buy	AUD	ORD	15,424	15,424
BlackRock Investment Management (Australia) Limited	01-Nov-17	yes	4.57	on mkt buy	AUD	ORD	1,662	1,662
BlackRock Investment Management (Australia) Limited	01-Nov-17	yes	4.58	on mkt buy	AUD	ORD	12,648	12,648
BlackRock Advisors (UK) Limited	01-Nov-17	yes	4.58	on mkt buy	AUD	ORD	4,747	4,747
BlackRock Advisors (UK) Limited	01-Nov-17	yes	4.58	on mkt buy	AUD	ORD	482	482
BlackRock Fund Advisors	02-Nov-17	no	n/a	in specie	AUD	ORD	3,020	3,020
BlackRock Fund Advisors	02-Nov-17	no	n/a	in specie	AUD	ORD	3,042	3,042
BlackRock Advisors (UK) Limited	03-Nov-17	yes	4.56	on mkt buy	AUD	ORD	9,494	9,494
BlackRock Advisors (UK) Limited	06-Nov-17	yes	4.59	on mkt buy	AUD	ORD	5,240	5,240
BlackRock Fund Advisors	06-Nov-17	no	n/a	in specie	AUD	ORD	6,084	6,084
BlackRock Fund Advisors	06-Nov-17	no	n/a	in specie	AUD	ORD	22,650	22,650
BlackRock Financial Management, Inc.	07-Nov-17	no	n/a	in specie	AUD	ORD	5,054	5,054
BlackRock Advisors, LLC	07-Nov-17	yes	4.74	on mkt buy	AUD	ORD	789	789
BlackRock Advisors (UK) Limited	07-Nov-17	yes	4.76	on mkt buy	AUD	ORD	17,292	17,292
BlackRock Fund Advisors	07-Nov-17	no	n/a	in specie	AUD	ORD	4,266	4,266
BlackRock Advisors (UK) Limited	08-Nov-17	yes	4.78	on mkt buy	AUD	ORD	3,771	3,771
BlackRock Advisors (UK) Limited	08-Nov-17	yes	4.78	on mkt buy	AUD	ORD	706	706
BlackRock Institutional Trust Company, National Association	08-Nov-17	yes	4.78	on mkt buy	AUD	ORD	23,284	23,284
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ORD	9,480	9,480
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ORD	4,795	4,795
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ORD	9,060	9,060
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ORD	16,610	16,610
BlackRock Advisors (UK) Limited	09-Nov-17	yes	4.65	on mkt buy	AUD	ORD	1,498	1,498
BlackRock Advisors (UK) Limited	10-Nov-17	yes	4.50	on mkt buy	AUD	ORD	4,749	4,749
BlackRock Advisors (UK) Limited	10-Nov-17	yes	4.49	on mkt buy	AUD	ORD	27,157	27,157
BlackRock Advisors (UK) Limited	10-Nov-17	yes	4.49	on mkt buy	AUD	ORD	28,603	28,603
BlackRock Advisors (UK) Limited	10-Nov-17	yes	4.49	on mkt buy	AUD	ORD	9,290	9,290
BlackRock Fund Advisors	10-Nov-17	no	n/a	in specie	AUD	ORD	3,750	3,750
BlackRock Investment Management (UK) Limited	10-Nov-17	no	n/a	in specie	AUD	ORD	6,086	6,086
BlackRock Advisors (UK) Limited	13-Nov-17	yes	4.58	on mkt buy	AUD	ORD	50,037	50,037
BlackRock Investment Management (UK) Limited	13-Nov-17	no	n/a	collateral transfer	AUD	ORD	29,998	29,998
BlackRock Investment Management (Australia) Limited	14-Nov-17	yes	4.48	on mkt buy	AUD	ORD	13,967	13,967
BlackRock Advisors (UK) Limited	14-Nov-17	yes	4.48	on mkt buy	AUD	ORD	44,614	44,614
BlackRock Advisors (UK) Limited	14-Nov-17	yes	4.48	on mkt buy	AUD	ORD	11,690	11,690
BlackRock Fund Advisors	14-Nov-17	no	n/a	in specie	AUD	ORD	7,550	7,550
BlackRock Fund Advisors	14-Nov-17	no	n/a	in specie	AUD	ORD	11,250	11,250
BlackRock Investment Management (Australia) Limited	15-Nov-17	yes	4.38	on mkt buy	AUD	ORD	14,756	14,756
BlackRock Advisors (UK) Limited	15-Nov-17	yes	4.38	on mkt buy	AUD	ORD	5,162	5,162
BlackRock Institutional Trust Company, National Association	15-Nov-17	yes	4.38	on mkt buy	AUD	ORD	131,569	131,569
BlackRock Fund Advisors	15-Nov-17	no	n/a	in specie	AUD	ORD	19,630	19,630
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ORD	42,280	42,280
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ORD	7,550	7,550
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ORD	61,688	61,688
BlackRock Advisors (UK) Limited	17-Nov-17	yes	5.01	on mkt buy	AUD	ORD	335	335
BlackRock Fund Advisors	17-Nov-17	no	n/a	in specie	AUD	ORD	5,688	5,688

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	21-Nov-17	yes	5.07	on mkt buy	AUD	ORD	5,150	5,150
BlackRock Advisors (UK) Limited	21-Nov-17	yes	5.07	on mkt buy	AUD	ORD	4,855	4,855
BlackRock Fund Advisors	21-Nov-17	no	n/a	in specie	AUD	ORD	8,712	8,712
BlackRock Advisors, LLC	22-Nov-17	yes	5.14	on mkt buy	AUD	ORD	87	87
BlackRock Advisors (UK) Limited	22-Nov-17	yes	5.13	on mkt buy	AUD	ORD	5,115	5,115
BlackRock Investment Management (Australia) Limited	22-Nov-17	yes	5.13	on mkt buy	AUD	ORD	7,722	7,722
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ORD	26,260	26,260
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ORD	7,981	7,981
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ORD	7,500	7,500
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ORD	7,500	7,500
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ORD	7,500	7,500
BlackRock Advisors (UK) Limited	22-Nov-17	no	n/a	collateral transfer	AUD	ORD	29,994	29,994
BlackRock Financial Management, Inc.	24-Nov-17	yes	5.12	on mkt buy	AUD	ORD	828	828
BlackRock Advisors (UK) Limited	24-Nov-17	yes	5.07	on mkt buy	AUD	ORD	2,625	2,625
BlackRock Advisors (UK) Limited	24-Nov-17	yes	5.07	on mkt buy	AUD	ORD	956	956
BlackRock Investment Management (UK) Limited	24-Nov-17	no	n/a	in specie	AUD	ORD	24,693	24,693
BlackRock Investment Management (UK) Limited	24-Nov-17	no	n/a	in specie	AUD	ORD	23,067	23,067
BlackRock Advisors (UK) Limited	24-Nov-17	no	n/a	collateral transfer	AUD	ORD	82,261	82,261
BlackRock Investment Management (Australia) Limited	27-Nov-17	yes	5.03	on mkt buy	AUD	ORD	210,800	210,800
BlackRock Advisors (UK) Limited	27-Nov-17	yes	5.03	on mkt buy	AUD	ORD	23,154	23,154
BlackRock Japan Co., Ltd.	27-Nov-17	no	n/a	collateral transfer	AUD	ORD	56,307	56,307
BlackRock Investment Management (Australia) Limited	28-Nov-17	yes	5.14	on mkt buy	AUD	ORD	227,664	227,664
BlackRock Advisors (UK) Limited	28-Nov-17	yes	5.14	on mkt buy	AUD	ORD	814	814
BlackRock Investment Management (Australia) Limited	28-Nov-17	yes	5.14	on mkt buy	AUD	ORD	12,709	12,709
BlackRock Advisors (UK) Limited	28-Nov-17	yes	5.12	on mkt buy	AUD	ORD	15,342	15,342
BlackRock Fund Advisors	28-Nov-17	no	n/a	in specie	AUD	ORD	8,112	8,112
BlackRock Japan Co., Ltd.	28-Nov-17	no	n/a	collateral transfer	AUD	ORD	65,746	65,746
BlackRock Investment Management (Australia) Limited	29-Nov-17	yes	5.15	on mkt buy	AUD	ORD	88,536	88,536
BlackRock Institutional Trust Company, National Association	29-Nov-17	yes	5.15	on mkt buy	AUD	ORD	35,419	35,419
BlackRock Fund Advisors	29-Nov-17	no	n/a	in specie	AUD	ORD	4,740	4,740
BlackRock Institutional Trust Company, National Association	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	79,513	79,513
BlackRock Fund Advisors	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	16,050	16,050
BlackRock Asset Management Canada Limited	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	1,677	1,677
BlackRock Asset Management Canada Limited	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	1,599	1,599
BlackRock Institutional Trust Company, National Association	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	200,496	200,496
BlackRock Asset Management Canada Limited	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	1,223	1,223
BlackRock Fund Advisors	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	34,398	34,398
BlackRock Institutional Trust Company, National Association	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	37,422	37,422
BlackRock Institutional Trust Company, National Association	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	2,971	2,971
BlackRock Fund Advisors	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	4,239	4,239
BlackRock Asset Management Canada Limited	30-Nov-17	yes	5.08	on mkt buy	AUD	ORD	17,144	17,144
BlackRock Financial Management, Inc.	01-Dec-17	yes	5.13	on mkt buy	AUD	ORD	1,040	1,040
BlackRock Fund Advisors	01-Dec-17	no	n/a	in specie	AUD	ORD	15,000	15,000
BlackRock Japan Co., Ltd.	04-Dec-17	yes	5.17	on mkt buy	AUD	ORD	861	861
BlackRock Investment Management (Australia) Limited	04-Dec-17	yes	5.13	on mkt buy	AUD	ORD	42,791	42,791
BlackRock Fund Advisors	04-Dec-17	no	n/a	in specie	AUD	ORD	3,960	3,960
BlackRock Fund Advisors	04-Dec-17	no	n/a	in specie	AUD	ORD	1,584	1,584
BlackRock Advisors, LLC	05-Dec-17	yes	5.08	on mkt buy	AUD	ORD	87	87
BlackRock Advisors (UK) Limited	05-Dec-17	yes	5.03	on mkt buy	AUD	ORD	3,782	3,782
BlackRock Advisors (UK) Limited	05-Dec-17	yes	5.03	on mkt buy	AUD	ORD	1,912	1,912
BlackRock Fund Advisors	05-Dec-17	no	n/a	in specie	AUD	ORD	8,712	8,712
BlackRock Fund Advisors	05-Dec-17	no	n/a	in specie	AUD	ORD	1,002	1,002
BlackRock Institutional Trust Company, National Association	06-Dec-17	yes	4.93	on mkt buy	AUD	ORD	80	80

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-Dec-17	yes	4.91	on mkt buy	AUD	ORD	12,648	12,648
BlackRock Advisors (UK) Limited	06-Dec-17	yes	4.91	on mkt buy	AUD	ORD	2,625	2,625
BlackRock Advisors (UK) Limited	06-Dec-17	yes	4.91	on mkt buy	AUD	ORD	1,575	1,575
BlackRock Advisors (UK) Limited	06-Dec-17	yes	4.91	on mkt buy	AUD	ORD	479	479
BlackRock Fund Advisors	06-Dec-17	no	n/a	in specie	AUD	ORD	3,750	3,750
BlackRock Advisors (UK) Limited	06-Dec-17	no	n/a	in specie	AUD	ORD	10,991	10,991
BlackRock Institutional Trust Company, National Association	07-Dec-17	yes	4.96	on mkt buy	AUD	ORD	145,653	145,653
BlackRock Fund Advisors	07-Dec-17	no	n/a	in specie	AUD	ORD	2,028	2,028
BlackRock Japan Co., Ltd.	07-Dec-17	no	n/a	collateral transfer	AUD	ORD	1,660,438	1,660,438
BlackRock Financial Management, Inc.	08-Dec-17	no	n/a	in specie	AUD	ORD	14,643	14,643
BlackRock Financial Management, Inc.	08-Dec-17	yes	4.97	on mkt buy	AUD	ORD	3,314	3,314
BlackRock Investment Management (Australia) Limited	08-Dec-17	yes	5.00	on mkt buy	AUD	ORD	21,069	21,069
BlackRock Fund Advisors	08-Dec-17	no	n/a	in specie	AUD	ORD	3,836	3,836
BlackRock Fund Advisors	08-Dec-17	no	n/a	in specie	AUD	ORD	5,754	5,754
BlackRock Investment Management (UK) Limited	08-Dec-17	no	n/a	in specie	AUD	ORD	7,278	7,278
BlackRock Investment Management (UK) Limited	08-Dec-17	no	n/a	in specie	AUD	ORD	26,655	26,655
BlackRock Investment Management, LLC	11-Dec-17	yes	5.04	on mkt buy	AUD	ORD	710	710
BlackRock Investment Management (UK) Limited	11-Dec-17	yes	5.05	on mkt buy	AUD	ORD	195,822	195,822
BlackRock Advisors (UK) Limited	11-Dec-17	yes	5.05	on mkt buy	AUD	ORD	748	748
BlackRock Advisors (UK) Limited	12-Dec-17	yes	5.10	on mkt buy	AUD	ORD	15,124	15,124
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	3,168	3,168
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	11,880	11,880
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	3,168	3,168
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	7,981	7,981
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	15,962	15,962
BlackRock Fund Advisors	12-Dec-17	no	n/a	in specie	AUD	ORD	3,750	3,750
BlackRock Advisors (UK) Limited	13-Dec-17	yes	5.04	on mkt buy	AUD	ORD	9,975	9,975
BlackRock Investment Management (Australia) Limited	13-Dec-17	yes	5.04	on mkt buy	AUD	ORD	5,544	5,544
BlackRock Investment Management (Australia) Limited	13-Dec-17	yes	5.04	on mkt buy	AUD	ORD	109,985	109,985
BlackRock Fund Advisors	13-Dec-17	no	n/a	in specie	AUD	ORD	7,981	7,981
BlackRock Investment Management (Australia) Limited	13-Dec-17	yes	5.04	on mkt buy	AUD	ORD	293,590	293,590
BlackRock Advisors (UK) Limited	14-Dec-17	yes	5.06	on mkt buy	AUD	ORD	10,234	10,234
BlackRock Financial Management, Inc.	15-Dec-17	yes	5.04	on mkt buy	AUD	ORD	300	300
BlackRock Advisors, LLC	15-Dec-17	yes	5.02	on mkt buy	AUD	ORD	31,971	31,971
BlackRock Investment Management (UK) Limited	15-Dec-17	yes	5.02	on mkt buy	AUD	ORD	46,946	46,946
BlackRock Institutional Trust Company, National Association	15-Dec-17	yes	5.02	on mkt buy	AUD	ORD	10,083	10,083
BlackRock Fund Advisors	15-Dec-17	no	n/a	in specie	AUD	ORD	21,008	21,008
BlackRock Fund Advisors	15-Dec-17	no	n/a	in specie	AUD	ORD	15,756	15,756
BlackRock Advisors (UK) Limited	18-Dec-17	yes	5.03	on mkt buy	AUD	ORD	26,481	26,481
BlackRock Advisors (UK) Limited	18-Dec-17	yes	5.06	on mkt buy	AUD	ORD	4,824	4,824
BlackRock Advisors (UK) Limited	18-Dec-17	yes	5.06	on mkt buy	AUD	ORD	5,720	5,720
BlackRock Advisors (UK) Limited	18-Dec-17	yes	5.06	on mkt buy	AUD	ORD	4,116	4,116
BlackRock Fund Advisors	18-Dec-17	no	n/a	in specie	AUD	ORD	22,650	22,650
BlackRock Investment Management (Australia) Limited	19-Dec-17	yes	5.03	on mkt buy	AUD	ORD	1,355	1,355
BlackRock Advisors, LLC	19-Dec-17	yes	5.07	on mkt buy	AUD	ORD	44	44
BlackRock Advisors, LLC	19-Dec-17	yes	5.07	on mkt buy	AUD	ORD	114	114
BlackRock Investment Management (Australia) Limited	19-Dec-17	yes	5.07	on mkt buy	AUD	ORD	1,738	1,738
BlackRock Institutional Trust Company, National Association	19-Dec-17	no	n/a	in specie	AUD	ORD	13,673	13,673
BlackRock Fund Advisors	19-Dec-17	no	n/a	in specie	AUD	ORD	15,756	15,756
BlackRock Fund Advisors	19-Dec-17	no	n/a	in specie	AUD	ORD	15,000	15,000
BlackRock Fund Advisors	19-Dec-17	no	n/a	in specie	AUD	ORD	3,750	3,750
BlackRock Advisors (UK) Limited	19-Dec-17	no	n/a	collateral transfer	AUD	ORD	2,313	2,313
BlackRock Investment Management (Australia) Limited	20-Dec-17	yes	5.10	on mkt buy	AUD	ORD	271	271
BlackRock Investment Management (Australia) Limited	20-Dec-17	yes	5.10	on mkt buy	AUD	ORD	5,911	5,911
BlackRock Investment Management (Australia) Limited	20-Dec-17	yes	5.10	on mkt buy	AUD	ORD	10,916	10,916
BlackRock Fund Advisors	20-Dec-17	yes	5.10	on mkt buy	AUD	ORD	11,845	11,845

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (UK) Limited	20-Dec-17	no	n/a	in specie	AUD	ORD	11,429	11,429
BlackRock Fund Advisors	20-Dec-17	no	n/a	in specie	AUD	ORD	3,750	3,750
BlackRock Fund Advisors	20-Dec-17	no	n/a	in specie	AUD	ORD	7,500	7,500
BlackRock Advisors (UK) Limited	20-Dec-17	no	n/a	collateral transfer	AUD	ORD	22,687	22,687
BlackRock Advisors (UK) Limited	21-Dec-17	yes	5.27	on mkt buy	AUD	ORD	1,372	1,372
BlackRock Institutional Trust Company, National Association	21-Dec-17	yes	5.27	on mkt buy	AUD	ORD	10,100	10,100
BlackRock Fund Advisors	21-Dec-17	no	n/a	in specie	AUD	ORD	14,930	14,930
BlackRock Fund Advisors	21-Dec-17	no	n/a	in specie	AUD	ORD	4,795	4,795
BlackRock Fund Advisors	21-Dec-17	no	n/a	in specie	AUD	ORD	5,754	5,754
BlackRock Financial Management, Inc.	22-Dec-17	yes	5.31	on mkt buy	AUD	ORD	62,950	62,950
BlackRock Investment Management (Australia) Limited	22-Dec-17	yes	5.31	on mkt buy	AUD	ORD	1,699	1,699
BlackRock Advisors (UK) Limited	22-Dec-17	yes	5.31	on mkt buy	AUD	ORD	3,780	3,780
BlackRock Advisors (UK) Limited	22-Dec-17	yes	5.31	on mkt buy	AUD	ORD	748	748
BlackRock Advisors (UK) Limited	22-Dec-17	no	n/a	collateral transfer	AUD	ORD	1,260,002	1,260,002
BlackRock Advisors (UK) Limited	26-Dec-17	no	n/a	collateral transfer	AUD	ORD	1,285,000	1,285,000
BlackRock Fund Advisors	27-Dec-17	no	n/a	in specie	AUD	ORD	7,981	7,981
BlackRock Investment Management (Australia) Limited	27-Dec-17	yes	5.39	on mkt buy	AUD	ORD	6,032	6,032
BlackRock (Netherlands) B.V.	27-Dec-17	yes	5.39	on mkt buy	AUD	ORD	2,079	2,079
BlackRock Fund Advisors	27-Dec-17	yes	5.39	on mkt buy	AUD	ORD	72,000	72,000
BlackRock Institutional Trust Company, National Association	27-Dec-17	yes	5.39	on mkt buy	AUD	ORD	35,142	35,142
BlackRock Fund Advisors	27-Dec-17	yes	5.39	on mkt buy	AUD	ORD	18,576	18,576
BlackRock Fund Advisors	27-Dec-17	no	n/a	in specie	AUD	ORD	26,165	26,165
BlackRock Financial Management, Inc.	28-Dec-17	yes	5.40	on mkt buy	AUD	ORD	10,769	10,769
BlackRock Advisors (UK) Limited	28-Dec-17	yes	5.41	on mkt buy	AUD	ORD	2,092	2,092
BlackRock Institutional Trust Company, National Association	28-Dec-17	yes	5.41	on mkt buy	AUD	ORD	54,135	54,135
BlackRock Investment Management (Australia) Limited	28-Dec-17	yes	5.41	on mkt buy	AUD	ORD	7,603	7,603
BlackRock Fund Advisors	28-Dec-17	no	n/a	in specie	AUD	ORD	860	860
BlackRock Advisors (UK) Limited	29-Dec-17	yes	5.45	on mkt buy	AUD	ORD	4,819	4,819
BlackRock Advisors (UK) Limited	29-Dec-17	yes	5.45	on mkt buy	AUD	ORD	9,638	9,638
BlackRock Advisors, LLC	29-Dec-17	yes	5.45	on mkt buy	AUD	ORD	125,501	125,501
BlackRock Institutional Trust Company, National Association	29-Dec-17	no	n/a	in specie	AUD	ORD	90,769	90,769
BlackRock Investment Management (Australia) Limited	02-Jan-18	yes	5.46	on mkt buy	AUD	ORD	3,732	3,732
BlackRock Fund Advisors	02-Jan-18	no	n/a	in specie	AUD	ORD	430	430
BlackRock Investment Management, LLC	03-Jan-18	yes	5.42	on mkt buy	AUD	ORD	5,861	5,861
BlackRock Advisors (UK) Limited	03-Jan-18	yes	5.45	on mkt buy	AUD	ORD	5,047	5,047
BlackRock Advisors (UK) Limited	03-Jan-18	yes	5.45	on mkt buy	AUD	ORD	20,188	20,188
BlackRock Advisors (UK) Limited	03-Jan-18	yes	5.45	on mkt buy	AUD	ORD	2,744	2,744
BlackRock Fund Advisors	03-Jan-18	no	n/a	in specie	AUD	ORD	26,165	26,165
BlackRock Asset Management Canada Limited	04-Jan-18	no	n/a	in specie	AUD	ORD	6,785	6,785
BlackRock International Limited	04-Jan-18	yes	5.45	on mkt buy	AUD	ORD	4,148	4,148
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	709	709
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	8,806	8,806
BlackRock Advisors (UK) Limited	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	3,828	3,828
BlackRock Financial Management, Inc.	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	24,744	24,744
BlackRock Financial Management, Inc.	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	7,676	7,676
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	37,461	37,461
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	4,612	4,612
BlackRock Financial Management, Inc.	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	14,569	14,569
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	17,113	17,113
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	4,924	4,924
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	21,530	21,530
BlackRock Investment Management (UK) Limited	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	5,312	5,312
BlackRock Advisors (UK) Limited	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	3,770	3,770
BlackRock Advisors (UK) Limited	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	3,228	3,228
BlackRock Financial Management, Inc.	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	5,925	5,925

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			Cash	Non-cash	CCY			
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	20,086	20,086
BlackRock Institutional Trust Company, National Association	04-Jan-18	yes	5.46	on mkt buy	AUD	ORD	3,540	3,540
BlackRock Advisors (UK) Limited	04-Jan-18	yes	5.45	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Fund Advisors	04-Jan-18	yes	5.45	on mkt buy	AUD	ORD	23,358	23,358
BlackRock Advisors (UK) Limited	04-Jan-18	yes	5.45	on mkt buy	AUD	ORD	8,304	8,304
BlackRock Fund Advisors	04-Jan-18	no	n/a	in specie	AUD	ORD	44,790	44,790
BlackRock Fund Advisors	04-Jan-18	no	n/a	in specie	AUD	ORD	15,962	15,962
BlackRock Financial Management, Inc.	05-Jan-18	yes	5.56	on mkt buy	AUD	ORD	16,657	16,657
BlackRock Advisors (UK) Limited	05-Jan-18	yes	5.54	on mkt buy	AUD	ORD	3,782	3,782
BlackRock Advisors (UK) Limited	05-Jan-18	yes	5.55	on mkt buy	AUD	ORD	1,046	1,046
BlackRock Fund Advisors	05-Jan-18	no	n/a	in specie	AUD	ORD	9,360	9,360
BlackRock Fund Advisors	05-Jan-18	no	n/a	in specie	AUD	ORD	16,680	16,680
BlackRock Japan Co., Ltd.	05-Jan-18	no	n/a	collateral transfer	AUD	ORD	106,000	106,000
BlackRock Institutional Trust Company, National Association	08-Jan-18	yes	5.58	on mkt buy	AUD	ORD	3,000	3,000
BlackRock Investment Management, LLC	08-Jan-18	yes	5.58	on mkt buy	AUD	ORD	1,551	1,551
BlackRock Advisors (UK) Limited	08-Jan-18	yes	5.59	on mkt buy	AUD	ORD	7,720	7,720
BlackRock Advisors (UK) Limited	08-Jan-18	yes	5.59	on mkt buy	AUD	ORD	3,360	3,360
BlackRock Institutional Trust Company, National Association	08-Jan-18	yes	5.59	on mkt buy	AUD	ORD	16,188	16,188
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	1,322	1,322
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	739	739
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	5,872	5,872
BlackRock Investment Management, LLC	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	10,822	10,822
BlackRock Investment Management (UK) Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	2,429	2,429
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	10,671	10,671
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	2,280	2,280
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	9,300	9,300
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	2,280	2,280
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	14,314	14,314
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	11,743	11,743
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	13,043	13,043
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	5,287	5,287
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	5,959	5,959
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	11,281	11,281
BlackRock Japan Co., Ltd.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	5,874	5,874
BlackRock Advisors, LLC	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	12,729	12,729
BlackRock Asset Management Canada Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	6,773	6,773
BlackRock Financial Management, Inc.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	58,875	58,875
BlackRock Financial Management, Inc.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	16,387	16,387
BlackRock Investment Management, LLC	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	2,432	2,432
BlackRock International Limited	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	19,219	19,219
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	4,473	4,473
BlackRock Advisors, LLC	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	4,555	4,555
BlackRock Institutional Trust Company, National Association	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	47,170	47,170
BlackRock Investment Management (UK) Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	4,338	4,338
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	6,774	6,774
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	12,819	12,819
BlackRock Financial Management, Inc.	09-Jan-18	yes	5.60	on mkt buy	AUD	ORD	5,905	5,905
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	7,720	7,720
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	5,046	5,046
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	481	481
BlackRock Advisors (UK) Limited	09-Jan-18	yes	5.59	on mkt buy	AUD	ORD	1,443	1,443
BlackRock Fund Advisors	09-Jan-18	no	n/a	in specie	AUD	ORD	4,212	4,212
BlackRock Japan Co., Ltd.	09-Jan-18	no	n/a	collateral transfer	AUD	ORD	453,628	453,628
BlackRock Advisors (UK) Limited	09-Jan-18	no	n/a	collateral transfer	AUD	ORD	24,997	24,997
BlackRock Institutional Trust Company, National Association	10-Jan-18	yes	5.62	on mkt buy	AUD	ORD	358	358
BlackRock Advisors (UK) Limited	10-Jan-18	yes	5.60	on mkt buy	AUD	ORD	18,910	18,910

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BlackRock Fund Advisors	10-Jan-18	no	n/a	in specie	AUD	ORD	29,860	29,860
BlackRock Fund Advisors	10-Jan-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Japan Co., Ltd.	10-Jan-18	no	n/a	collateral transfer	AUD	ORD	564,788	564,788
BlackRock Advisors (UK) Limited	10-Jan-18	no	n/a	collateral transfer	AUD	ORD	674	674
BlackRock Institutional Trust Company, National Association	11-Jan-18	yes	5.54	on mkt buy	AUD	ORD	394	394
BlackRock Advisors (UK) Limited	11-Jan-18	yes	5.56	on mkt buy	AUD	ORD	3,781	3,781
BlackRock Fund Advisors	11-Jan-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Fund Advisors	11-Jan-18	no	n/a	in specie	AUD	ORD	29,880	29,880
BlackRock Advisors (UK) Limited	11-Jan-18	no	n/a	collateral transfer	AUD	ORD	325,327	325,327
BlackRock Financial Management, Inc.	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	18,447	18,447
BlackRock Financial Management, Inc.	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	5,605	5,605
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	16,303	16,303
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	250	250
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	225	225
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	5,472	5,472
BlackRock Advisors, LLC	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	12,103	12,103
BlackRock Asset Management Canada Limited	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	6,567	6,567
BlackRock Investment Management, LLC	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	2,259	2,259
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	4,452	4,452
BlackRock Advisors, LLC	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	5,440	5,440
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	3,930	3,930
BlackRock Advisors (UK) Limited	12-Jan-18	yes	5.54	on mkt buy	AUD	ORD	7,542	7,542
BlackRock Institutional Trust Company, National Association	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	11,763	11,763
BlackRock International Limited	12-Jan-18	yes	5.53	on mkt buy	AUD	ORD	5,466	5,466
BlackRock Advisors (UK) Limited	12-Jan-18	yes	5.52	on mkt buy	AUD	ORD	1,440	1,440
BlackRock Advisors (UK) Limited	12-Jan-18	yes	5.52	on mkt buy	AUD	ORD	1,372	1,372
BlackRock Fund Advisors	12-Jan-18	yes	5.52	on mkt buy	AUD	ORD	2,360	2,360
BlackRock Fund Advisors	12-Jan-18	no	n/a	in specie	AUD	ORD	14,930	14,930
BlackRock Japan Co., Ltd.	12-Jan-18	no	n/a	collateral transfer	AUD	ORD	751,822	751,822
BlackRock Institutional Trust Company, National Association	15-Jan-18	yes	5.47	on mkt buy	AUD	ORD	4,457	4,457
BlackRock Advisors (UK) Limited	16-Jan-18	yes	5.33	on mkt buy	AUD	ORD	5,046	5,046
BlackRock Investment Management (Australia) Limited	16-Jan-18	yes	5.33	on mkt buy	AUD	ORD	312,391	312,391
BlackRock Investment Management (Australia) Limited	16-Jan-18	yes	5.33	on mkt buy	AUD	ORD	453,934	453,934
BlackRock Advisors (UK) Limited	16-Jan-18	yes	5.33	on mkt buy	AUD	ORD	750	750
BlackRock Fund Advisors	16-Jan-18	no	n/a	in specie	AUD	ORD	53,748	53,748
BlackRock Fund Advisors	16-Jan-18	no	n/a	in specie	AUD	ORD	7,388	7,388
BlackRock Fund Advisors	16-Jan-18	no	n/a	in specie	AUD	ORD	36,940	36,940
BlackRock Investment Management (Australia) Limited	17-Jan-18	yes	5.29	on mkt buy	AUD	ORD	86	86
BlackRock Financial Management, Inc.	17-Jan-18	yes	5.30	on mkt buy	AUD	ORD	6,911	6,911
BlackRock Investment Management, LLC	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	8,903	8,903
BlackRock Advisors (UK) Limited	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	3,030	3,030
BlackRock Japan Co., Ltd.	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	13,914	13,914
BlackRock Japan Co., Ltd.	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	7,336	7,336
BlackRock Japan Co., Ltd.	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	5,818	5,818
BlackRock Advisors, LLC	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	2,036	2,036
BlackRock Advisors, LLC	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	3,819	3,819
BlackRock Financial Management, Inc.	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	15,354	15,354
BlackRock Financial Management, Inc.	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	5,550	5,550
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	6,096	6,096
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	2,453	2,453
BlackRock Advisors, LLC	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	9,913	9,913
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	4,953	4,953
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	3,597	3,597
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	14,283	14,283

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BlackRock Investment Management (Australia) Limited	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	373	373
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	4,252	4,252
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.31	on mkt buy	AUD	ORD	3,789	3,789
BlackRock Institutional Trust Company, National Association	17-Jan-18	yes	5.32	on mkt buy	AUD	ORD	3,723	3,723
BlackRock Advisors (UK) Limited	17-Jan-18	yes	5.29	on mkt buy	AUD	ORD	9,628	9,628
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	10,764	10,764
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	4,680	4,680
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	17,916	17,916
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	327	327
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	7,388	7,388
BlackRock Fund Advisors	17-Jan-18	no	n/a	in specie	AUD	ORD	14,776	14,776
BlackRock Advisors (UK) Limited	18-Jan-18	yes	5.21	on mkt buy	AUD	ORD	524	524
BlackRock Japan Co., Ltd.	18-Jan-18	no	n/a	collateral transfer	AUD	ORD	893,919	893,919
BlackRock Asset Management Canada Limited	19-Jan-18	no	n/a	in specie	AUD	ORD	5,994	5,994
BlackRock Financial Management, Inc.	19-Jan-18	yes	5.17	on mkt buy	AUD	ORD	814	814
BlackRock Financial Management, Inc.	19-Jan-18	yes	5.16	on mkt buy	AUD	ORD	2,694	2,694
BlackRock Advisors (UK) Limited	19-Jan-18	yes	5.14	on mkt buy	AUD	ORD	1,443	1,443
BlackRock Fund Advisors	19-Jan-18	no	n/a	in specie	AUD	ORD	26,874	26,874
BlackRock Fund Advisors	19-Jan-18	no	n/a	in specie	AUD	ORD	7,500	7,500
BlackRock Advisors (UK) Limited	19-Jan-18	no	n/a	in specie	AUD	ORD	60,968	60,968
BlackRock Advisors (UK) Limited	19-Jan-18	no	n/a	in specie	AUD	ORD	27,098	27,098
BlackRock Advisors (UK) Limited	19-Jan-18	no	n/a	in specie	AUD	ORD	3,123	3,123
BlackRock Advisors (UK) Limited	22-Jan-18	yes	5.12	on mkt buy	AUD	ORD	11,388	11,388
BlackRock Advisors (UK) Limited	22-Jan-18	yes	5.12	on mkt buy	AUD	ORD	18,980	18,980
BlackRock Advisors (UK) Limited	22-Jan-18	yes	5.11	on mkt buy	AUD	ORD	7,592	7,592
BlackRock Institutional Trust Company, National Association	22-Jan-18	yes	5.12	on mkt buy	AUD	ORD	119,165	119,165
BlackRock Advisors (UK) Limited	22-Jan-18	no	n/a	collateral transfer	AUD	ORD	1,048,748	1,048,748
BlackRock Financial Management, Inc.	22-Jan-18	no	n/a	collateral transfer	AUD	ORD	1,744	1,744
BlackRock Investment Management (UK) Limited	22-Jan-18	no	n/a	collateral transfer	AUD	ORD	302,504	302,504
BlackRock Advisors (UK) Limited	23-Jan-18	yes	5.18	on mkt buy	AUD	ORD	15,180	15,180
BlackRock Advisors (UK) Limited	23-Jan-18	yes	5.18	on mkt buy	AUD	ORD	1,372	1,372
BlackRock Fund Advisors	23-Jan-18	no	n/a	in specie	AUD	ORD	17,916	17,916
BlackRock Japan Co., Ltd.	23-Jan-18	no	n/a	collateral transfer	AUD	ORD	29,906	29,906
BlackRock Financial Management, Inc.	23-Jan-18	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Investment Management (UK) Limited	24-Jan-18	yes	5.31	on mkt buy	AUD	ORD	9,895	9,895
BlackRock Advisors (UK) Limited	24-Jan-18	yes	5.24	on mkt buy	AUD	ORD	7,718	7,718
BlackRock Advisors (UK) Limited	24-Jan-18	yes	5.24	on mkt buy	AUD	ORD	9,626	9,626
BlackRock Advisors (UK) Limited	24-Jan-18	yes	5.24	on mkt buy	AUD	ORD	2,867	2,867
BlackRock Fund Advisors	24-Jan-18	yes	5.24	on mkt buy	AUD	ORD	12,955	12,955
BlackRock Fund Advisors	24-Jan-18	no	n/a	in specie	AUD	ORD	2,340	2,340
BlackRock Fund Advisors	24-Jan-18	no	n/a	in specie	AUD	ORD	44,790	44,790
BlackRock Fund Advisors	24-Jan-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Advisors (UK) Limited	24-Jan-18	no	n/a	collateral transfer	AUD	ORD	2	2
BlackRock Advisors (UK) Limited	25-Jan-18	yes	5.20	on mkt buy	AUD	ORD	750	750
BlackRock Advisors (UK) Limited	25-Jan-18	yes	5.20	on mkt buy	AUD	ORD	15,180	15,180
BlackRock Advisors (UK) Limited	25-Jan-18	yes	5.20	on mkt buy	AUD	ORD	1,924	1,924
BlackRock Advisors (UK) Limited	25-Jan-18	yes	5.20	on mkt buy	AUD	ORD	39,817	39,817
BlackRock Investment Management (Australia) Limited	25-Jan-18	yes	5.20	on mkt buy	AUD	ORD	5,345	5,345
BlackRock Fund Advisors	25-Jan-18	no	n/a	in specie	AUD	ORD	14,930	14,930
BlackRock Fund Advisors	25-Jan-18	no	n/a	in specie	AUD	ORD	25,020	25,020
BlackRock Fund Advisors	25-Jan-18	no	n/a	in specie	AUD	ORD	327	327
BlackRock Investment Management (UK) Limited	25-Jan-18	no	n/a	collateral transfer	AUD	ORD	29,258	29,258
BlackRock Fund Advisors	26-Jan-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Fund Advisors	26-Jan-18	no	n/a	in specie	AUD	ORD	654	654
BlackRock Investment Management, LLC	29-Jan-18	yes	5.24	on mkt buy	AUD	ORD	2,039	2,039
BlackRock Advisors (UK) Limited	29-Jan-18	yes	5.25	on mkt buy	AUD	ORD	7,590	7,590
BlackRock Advisors (UK) Limited	29-Jan-18	yes	5.25	on mkt buy	AUD	ORD	3,859	3,859
BlackRock Advisors (UK) Limited	29-Jan-18	yes	5.25	on mkt buy	AUD	ORD	1,373	1,373
BlackRock Fund Advisors	29-Jan-18	yes	5.25	on mkt buy	AUD	ORD	9,803	9,803
BlackRock Fund Advisors	29-Jan-18	no	n/a	in specie	AUD	ORD	3,297	3,297

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BlackRock Investment Management (UK) Limited	29-Jan-18	no	n/a	in specie	AUD	ORD	2,388	2,388
BlackRock Fund Advisors	29-Jan-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Advisors (UK) Limited	29-Jan-18	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Investment Management, LLC	29-Jan-18	no	n/a	collateral transfer	AUD	ORD	1,358	1,358
BlackRock Investment Management (UK) Limited	29-Jan-18	no	n/a	collateral transfer	AUD	ORD	352,531	352,531
BlackRock Asset Management North Asia Limited	29-Jan-18	no	n/a	collateral transfer	AUD	ORD	2,112	2,112
BlackRock Investment Management (Australia) Limited	30-Jan-18	yes	5.16	on mkt buy	AUD	ORD	12,000	12,000
BlackRock Advisors (UK) Limited	30-Jan-18	yes	5.16	on mkt buy	AUD	ORD	7,592	7,592
BlackRock Advisors (UK) Limited	30-Jan-18	yes	5.16	on mkt buy	AUD	ORD	2,746	2,746
BlackRock Advisors (UK) Limited	30-Jan-18	yes	5.16	on mkt buy	AUD	ORD	2,746	2,746
BlackRock Fund Advisors	30-Jan-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Fund Advisors	30-Jan-18	no	n/a	in specie	AUD	ORD	29,860	29,860
BlackRock Fund Advisors	30-Jan-18	no	n/a	in specie	AUD	ORD	327	327
BlackRock Advisors (UK) Limited	30-Jan-18	no	n/a	collateral transfer	AUD	ORD	82,000	82,000
BlackRock Institutional Trust Company, National Association	31-Jan-18	yes	5.08	on mkt buy	AUD	ORD	805	805
BlackRock Advisors (UK) Limited	31-Jan-18	yes	5.10	on mkt buy	AUD	ORD	1,924	1,924
BlackRock Advisors (UK) Limited	31-Jan-18	yes	5.10	on mkt buy	AUD	ORD	9,604	9,604
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	52,255	52,255
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	26,874	26,874
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	64,199	64,199
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	44,790	44,790
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	107,496	107,496
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	88,087	88,087
BlackRock Fund Advisors	31-Jan-18	no	n/a	in specie	AUD	ORD	14,940	14,940
BlackRock Advisors (UK) Limited	01-Feb-18	yes	5.15	on mkt buy	AUD	ORD	1,372	1,372
BlackRock Advisors (UK) Limited	01-Feb-18	yes	5.15	on mkt buy	AUD	ORD	1,372	1,372
BlackRock Fund Advisors	01-Feb-18	no	n/a	in specie	AUD	ORD	52,255	52,255
BlackRock Fund Advisors	01-Feb-18	no	n/a	in specie	AUD	ORD	14,930	14,930
BlackRock Fund Advisors	01-Feb-18	no	n/a	in specie	AUD	ORD	47,776	47,776
BlackRock Fund Advisors	01-Feb-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Investment Management (UK) Limited	01-Feb-18	no	n/a	in specie	AUD	ORD	338,776	338,776
BlackRock Fund Advisors	01-Feb-18	no	n/a	in specie	AUD	ORD	1,837	1,837
BlackRock Advisors (UK) Limited	02-Feb-18	yes	5.37	on mkt buy	AUD	ORD	538	538
BlackRock Advisors (UK) Limited	02-Feb-18	yes	5.37	on mkt buy	AUD	ORD	1,884	1,884
BlackRock Investment Management (Australia) Limited	02-Feb-18	yes	5.37	on mkt buy	AUD	ORD	6,337	6,337
BlackRock Fund Advisors	02-Feb-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Institutional Trust Company, National Association	02-Feb-18	no	n/a	in specie	AUD	ORD	665,777	665,777
BlackRock Financial Management, Inc.	02-Feb-18	no	n/a	collateral transfer	AUD	ORD	84	84
BlackRock Investment Management, LLC	02-Feb-18	no	n/a	collateral transfer	AUD	ORD	13	13
BlackRock Asset Management North Asia Limited	02-Feb-18	no	n/a	collateral transfer	AUD	ORD	2	2
BlackRock Advisors (UK) Limited	05-Feb-18	yes	5.18	on mkt buy	AUD	ORD	11,388	11,388
BlackRock Advisors (UK) Limited	05-Feb-18	yes	5.18	on mkt buy	AUD	ORD	960	960
BlackRock Advisors (UK) Limited	05-Feb-18	no	n/a	collateral transfer	AUD	ORD	5	5
BlackRock Financial Management, Inc.	05-Feb-18	no	n/a	collateral transfer	AUD	ORD	4	4
BlackRock Investment Management (UK) Limited	05-Feb-18	no	n/a	collateral transfer	AUD	ORD	13	13
BlackRock Financial Management, Inc.	06-Feb-18	yes	4.96	on mkt buy	AUD	ORD	5,561	5,561
BlackRock Institutional Trust Company, National Association	06-Feb-18	yes	4.96	on mkt buy	AUD	ORD	4,469	4,469
BlackRock Fund Advisors	06-Feb-18	no	n/a	in specie	AUD	ORD	7,348	7,348
BlackRock Advisors (UK) Limited	06-Feb-18	no	n/a	collateral transfer	AUD	ORD	625,211	625,211
BlackRock Financial Management, Inc.	06-Feb-18	no	n/a	collateral transfer	AUD	ORD	2	2
BlackRock Fund Advisors	07-Feb-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Fund Advisors	07-Feb-18	no	n/a	in specie	AUD	ORD	1,837	1,837
BlackRock Fund Advisors	07-Feb-18	no	n/a	in specie	AUD	ORD	11,082	11,082
BlackRock Financial Management, Inc.	07-Feb-18	no	n/a	collateral transfer	AUD	ORD	298,415	298,415

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, LLC	07-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,525,926	2,525,926
BlackRock Asset Management North Asia Limited	07-Feb-18	no	n/a	collateral transfer	AUD	ORD	260	260
BlackRock Financial Management, Inc.	08-Feb-18	yes	4.95	on mkt buy	AUD	ORD	22,993	22,993
BlackRock Financial Management, Inc.	08-Feb-18	yes	4.95	on mkt buy	AUD	ORD	10,067	10,067
BlackRock Institutional Trust Company, National Association	08-Feb-18	yes	4.95	on mkt buy	AUD	ORD	24,973	24,973
BlackRock Advisors (UK) Limited	08-Feb-18	yes	4.95	on mkt buy	AUD	ORD	18,975	18,975
BlackRock Financial Management, Inc.	08-Feb-18	yes	4.95	on mkt buy	AUD	ORD	5,834	5,834
BlackRock Fund Advisors	08-Feb-18	no	n/a	in specie	AUD	ORD	8,712	8,712
BlackRock Fund Advisors	08-Feb-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Fund Advisors	08-Feb-18	no	n/a	in specie	AUD	ORD	327	327
BlackRock Fund Advisors	08-Feb-18	no	n/a	in specie	AUD	ORD	654	654
BlackRock Fund Advisors	08-Feb-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Investment Management, LLC	08-Feb-18	no	n/a	collateral transfer	AUD	ORD	8,742	8,742
BlackRock Investment Management (UK) Limited	08-Feb-18	no	n/a	collateral transfer	AUD	ORD	133	133
BlackRock Investment Management (UK) Limited	09-Feb-18	yes	4.81	on mkt buy	AUD	ORD	16,326	16,326
BlackRock Advisors (UK) Limited	09-Feb-18	yes	4.84	on mkt buy	AUD	ORD	15,180	15,180
BlackRock Advisors (UK) Limited	09-Feb-18	yes	4.84	on mkt buy	AUD	ORD	22,770	22,770
BlackRock Fund Advisors	09-Feb-18	no	n/a	in specie	AUD	ORD	1,900	1,900
BlackRock Fund Advisors	09-Feb-18	no	n/a	in specie	AUD	ORD	7,388	7,388
BlackRock Investment Management (UK) Limited	09-Feb-18	no	n/a	in specie	AUD	ORD	10,701	10,701
BlackRock Investment Management (UK) Limited	09-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,292,779	2,292,779
BlackRock Asset Management North Asia Limited	09-Feb-18	no	n/a	collateral transfer	AUD	ORD	3,169	3,169
BlackRock Investment Management (UK) Limited	12-Feb-18	yes	4.78	on mkt buy	AUD	ORD	7,699	7,699
BlackRock Advisors (UK) Limited	12-Feb-18	yes	4.82	on mkt buy	AUD	ORD	5,764	5,764
BlackRock Institutional Trust Company, National Association	12-Feb-18	yes	4.82	on mkt buy	AUD	ORD	10,052	10,052
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	1,048	1,048
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	2,400	2,400
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	22,770	22,770
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.87	on mkt buy	AUD	ORD	7,590	7,590
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	3,750	3,750
BlackRock Advisors (UK) Limited	13-Feb-18	yes	4.86	on mkt buy	AUD	ORD	5,764	5,764
BlackRock Fund Advisors	13-Feb-18	no	n/a	in specie	AUD	ORD	29,860	29,860
BlackRock Fund Advisors	13-Feb-18	no	n/a	in specie	AUD	ORD	17,916	17,916
BlackRock Fund Advisors	13-Feb-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Advisors (UK) Limited	13-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,467,766	2,467,766
BlackRock Financial Management, Inc.	13-Feb-18	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Investment Management, LLC	13-Feb-18	no	n/a	collateral transfer	AUD	ORD	10,777	10,777
BlackRock Investment Management (UK) Limited	13-Feb-18	no	n/a	collateral transfer	AUD	ORD	315,666	315,666
BlackRock Asset Management North Asia Limited	13-Feb-18	no	n/a	collateral transfer	AUD	ORD	40	40
BlackRock Advisors (UK) Limited	14-Feb-18	yes	4.88	on mkt buy	AUD	ORD	524	524
BlackRock Advisors (UK) Limited	14-Feb-18	yes	4.88	on mkt buy	AUD	ORD	3,795	3,795
BlackRock Advisors (UK) Limited	14-Feb-18	yes	4.88	on mkt buy	AUD	ORD	2,096	2,096
BlackRock Advisors (UK) Limited	14-Feb-18	yes	4.88	on mkt buy	AUD	ORD	4,116	4,116
BlackRock Fund Advisors	14-Feb-18	no	n/a	in specie	AUD	ORD	22,395	22,395
BlackRock Fund Advisors	14-Feb-18	no	n/a	in specie	AUD	ORD	3,694	3,694
BlackRock Asset Management North Asia Limited	14-Feb-18	no	n/a	collateral transfer	AUD	ORD	38	38
BlackRock Investment Management (UK) Limited	15-Feb-18	yes	4.89	on mkt buy	AUD	ORD	9,702	9,702
BlackRock Advisors (UK) Limited	15-Feb-18	yes	5.08	on mkt buy	AUD	ORD	10,098	10,098
BlackRock Advisors (UK) Limited	15-Feb-18	yes	5.08	on mkt buy	AUD	ORD	2,872	2,872
BlackRock Fund Advisors	15-Feb-18	no	n/a	in specie	AUD	ORD	860	860
BlackRock Investment Management (UK) Limited	15-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,756,661	2,756,661
BlackRock Asset Management North Asia Limited	15-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,578	2,578
BlackRock Advisors (UK) Limited	16-Feb-18	yes	5.04	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Advisors (UK) Limited	16-Feb-18	yes	5.04	on mkt buy	AUD	ORD	962	962
BlackRock Fund Advisors	16-Feb-18	no	n/a	in specie	AUD	ORD	9,175	9,175

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, LLC	16-Feb-18	no	n/a	collateral transfer	AUD	ORD	45,428	45,428
BlackRock Japan Co., Ltd.	16-Feb-18	no	n/a	collateral transfer	AUD	ORD	116,655	116,655
BlackRock Investment Management, LLC	16-Feb-18	no	n/a	collateral transfer	AUD	ORD	195,616	195,616
BlackRock Asset Management North Asia Limited	16-Feb-18	no	n/a	collateral transfer	AUD	ORD	503,061	503,061
BlackRock Investment Management (UK) Limited	19-Feb-18	no	n/a	collateral transfer	AUD	ORD	728,915	728,915
BlackRock Investment Management (Australia) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	12,155	12,155
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.16	on mkt buy	AUD	ORD	7,596	7,596
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	5,030	5,030
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	20,120	20,120
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	2,620	2,620
BlackRock Advisors (UK) Limited	20-Feb-18	yes	5.18	on mkt buy	AUD	ORD	1,924	1,924
BlackRock Advisors (UK) Limited	20-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,760,280	2,760,280
BlackRock Fund Advisors	21-Feb-18	yes	5.02	on mkt buy	AUD	ORD	11,382	11,382
BlackRock Advisors (UK) Limited	21-Feb-18	yes	5.02	on mkt buy	AUD	ORD	5,032	5,032
BlackRock Fund Advisors	21-Feb-18	no	n/a	in specie	AUD	ORD	41,804	41,804
BlackRock Investment Management (UK) Limited	21-Feb-18	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Advisors (UK) Limited	22-Feb-18	yes	5.13	on mkt buy	AUD	ORD	10,066	10,066
BlackRock Institutional Trust Company, National Association	22-Feb-18	no	n/a	in specie	AUD	ORD	52,221	52,221
BlackRock Fund Advisors	22-Feb-18	no	n/a	in specie	AUD	ORD	3,674	3,674
BlackRock Financial Management, Inc.	22-Feb-18	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Investment Management (UK) Limited	22-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,745,140	2,745,140
BlackRock Asset Management North Asia Limited	22-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,859	2,859
BlackRock Advisors (UK) Limited	23-Feb-18	yes	5.12	on mkt buy	AUD	ORD	11,403	11,403
BlackRock Investment Management (Australia) Limited	23-Feb-18	yes	5.12	on mkt buy	AUD	ORD	7,902	7,902
BlackRock Fund Advisors	23-Feb-18	no	n/a	in specie	AUD	ORD	2,898	2,898
BlackRock Financial Management, Inc.	23-Feb-18	no	n/a	collateral transfer	AUD	ORD	1,064	1,064
BlackRock Investment Management (UK) Limited	23-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,790,245	2,790,245
BlackRock Asset Management North Asia Limited	23-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,729	2,729
BlackRock Investment Management (Australia) Limited	26-Feb-18	yes	5.07	on mkt buy	AUD	ORD	16,000	16,000
BlackRock Institutional Trust Company, National Association	26-Feb-18	yes	5.07	on mkt buy	AUD	ORD	76,171	76,171
BlackRock Fund Advisors	26-Feb-18	yes	5.07	on mkt buy	AUD	ORD	7,277	7,277
BlackRock Advisors (UK) Limited	26-Feb-18	yes	5.07	on mkt buy	AUD	ORD	11,403	11,403
BlackRock Fund Advisors	26-Feb-18	no	n/a	in specie	AUD	ORD	17,871	17,871
BlackRock Investment Management (UK) Limited	26-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,716,668	2,716,668
BlackRock Asset Management North Asia Limited	26-Feb-18	no	n/a	collateral transfer	AUD	ORD	2,768	2,768

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

Maria Tricarico, Authorised Signatory	28-Feb-18
	Date

7. Addresses

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

Name	Address
BlackRock Group	
BlackRock Inc.	55 East 52nd Street New York NY 10055 USA
BlackRock (Netherlands) B.V.	Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands
BlackRock (Singapore) Limited	20 Anson Road #18-01 079912 Singapore
BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Advisors, LLC	1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Asset Management North Asia Limited	15/F, 16/F, 17/F Citibank Tower & 17/F ICBC Tower, 3 Garden Road, Central, Hong Kong
BlackRock 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)

