

Form 603

Corporations Act 2001
Section 671B

Notice of initial substantial holder

To Company Name/Scheme

ACN/ARSN

1. Details of substantial holder (1)

Name

ACN/ARSN (if applicable)

The holder became a substantial holder on

/ /

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)

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

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

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	

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

7. Addresses

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

Name	Address

Signature

print name

capacity

sign here

date / /

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.

21-Sep-17

Kayla Mulvihill,
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.	BNYM-BANK OF NY BRUS		ord 30,139	30,139	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.	JPM-JP MORGAN CHASE - NEW YORK		ord 83,223	83,223	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 265,400	265,400	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 15,069	15,069	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 3,562,657	3,562,657	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 170,386	170,386	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 1,228,626	1,228,626	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.	NT-NORTHERN TRUST UK		ord 459,091	459,091	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 512,235	512,235	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-RBC DEXIA LUXEMBOURG		ord 74,172	74,172	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 4,541,070	4,541,070	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 8,295	8,295	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.	UBS- UBS- ZURICH		ord 38,985	38,985	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 1,255,318	1,255,318	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 82,958	82,958	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 9,013	9,013	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 774,793	774,793	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.	BNYM-BONY EUROPE - LONDON		ord 0	0	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 LUXEMBOURG		ord 1,163	1,163	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 2,648	2,648	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 6,785	6,785	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 2,456	2,456	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 40,001	40,001	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 69,540	69,540	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 31,115	31,115	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 181,924	181,924	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.	RBC-ROYAL TRUST - TORONTO		ord 146,210	146,210	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 17,942	17,942	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 3,413	3,413	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-SSB NEW YORK INSTITUTIONAL		ord 75,012	75,012	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 319,894	319,894	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 106,906	106,906	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 22,600,693	22,600,693	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 112,971	112,971	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 1,958,880	1,958,880	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 257,281	257,281	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 582,132	582,132	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 38,399	38,399	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 1,295,126	1,295,126	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 687,430	687,430	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 90,783	90,783	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 22,092,060	22,092,060	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 59,366	59,366	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 600,488	600,488	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.	BNP-BNP PARIBAS AUSTRALIA - COGENT		ord 284,078	284,078	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 21,129	21,129	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 4,866,213	4,866,213	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 846,716	846,716	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	AP7		ord 238,599	238,599	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNP-BNP Paribas Milan		ord 57,243	57,243	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 788,398	788,398	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 877,402	877,402	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY LUXEMBOURG		ord 2,796	2,796	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.	CB-CACEIS BANK LUXEMBOURG		ord 11,639	11,639	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 1,197,532	1,197,532	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 586,565	586,565	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 126,079	126,079	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 133,578	133,578	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 1,817,443	1,817,443	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.	SEB-SKANDINAVISKA ENSKILDA BANKEN		ord 60,662	60,662	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STATE HONG KONG		ord 75,057	75,057	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 413,667	413,667	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 116,308	116,308	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 580,720	580,720	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 1,149	1,149	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 1,117,442	1,117,442	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 1,093,289	1,093,289	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ord 19,370	19,370	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 35,455	35,455	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 26,619	26,619	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 2,240,332	2,240,332	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 And Trust Co.		ord 137,725	137,725	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 30,587	30,587	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 TRUST & BANKING TOKYO		ord 9,729	9,729	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 682,658	682,658	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 1,196,396	1,196,396	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 3,604,946	3,604,946	subsidiary of BlackRock Inc.

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

21-Sep-17
Date

Kayla Mulvihill,
Authorised Signatory

5. Consideration

ORIGIN ENERGY LTD (ORG)								
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	22-May-17	yes	7.70	on mkt buy	AUD	ord	10,664	10,664
BlackRock Advisors (UK) Limited	22-May-17	yes	7.89	on mkt buy	AUD	ord	3,528	3,528
BlackRock Fund Advisors	22-May-17	yes	7.89	on mkt buy	AUD	ord	13,065	13,065
BlackRock Fund Advisors	22-May-17	no	n/a	in specie	AUD	ord	620	620
BlackRock Fund Advisors	22-May-17	no	n/a	in specie	AUD	ord	15,021	15,021
BlackRock Fund Advisors	22-May-17	no	n/a	in specie	AUD	ord	10,014	10,014
BlackRock Fund Advisors	22-May-17	no	n/a	in specie	AUD	ord	45,063	45,063
BlackRock Advisors (UK) Limited	23-May-17	yes	7.85	on mkt buy	AUD	ord	17,865	17,865
BlackRock Advisors (UK) Limited	23-May-17	yes	7.85	on mkt buy	AUD	ord	3,125	3,125
BlackRock Fund Advisors	23-May-17	no	n/a	in specie	AUD	ord	25,035	25,035
BlackRock Advisors (UK) Limited	23-May-17	no	n/a	collateral transfer	AUD	ord	78,986	78,986
BlackRock Investment Management (UK) Limited	23-May-17	no	n/a	collateral transfer	AUD	ord	74,000	74,000
BlackRock Advisors (UK) Limited	24-May-17	yes	7.86	on mkt buy	AUD	ord	3,750	3,750
BlackRock Advisors (UK) Limited	24-May-17	yes	7.86	on mkt buy	AUD	ord	5,000	5,000
BlackRock Fund Advisors	24-May-17	yes	7.86	on mkt buy	AUD	ord	42,518	42,518
BlackRock Investment Management (Australia) Limited	24-May-17	no	n/a	in specie	AUD	ord	14,617	14,617
BlackRock Advisors (UK) Limited	24-May-17	no	n/a	collateral transfer	AUD	ord	245,019	245,019
BlackRock Financial Management, Inc.	24-May-17	no	n/a	collateral transfer	AUD	ord	62,137	62,137
BlackRock Advisors (UK) Limited	25-May-17	yes	8.01	on mkt buy	AUD	ord	10,584	10,584
BlackRock Institutional Trust Company, National Association	25-May-17	yes	8.01	on mkt buy	AUD	ord	28,566	28,566
BlackRock Investment Management (Australia) Limited	25-May-17	yes	8.01	on mkt buy	AUD	ord	2,532	2,532
BlackRock Japan Co., Ltd.	25-May-17	no	n/a	collateral transfer	AUD	ord	74,000	74,000
BlackRock Advisors (UK) Limited	25-May-17	no	n/a	collateral transfer	AUD	ord	80,270	80,270
BlackRock Advisors (UK) Limited	26-May-17	yes	7.91	on mkt buy	AUD	ord	53,864	53,864
BlackRock Advisors (UK) Limited	26-May-17	yes	7.93	on mkt buy	AUD	ord	3,528	3,528
BlackRock Advisors (UK) Limited	26-May-17	yes	7.93	on mkt buy	AUD	ord	30,000	30,000
BlackRock Fund Advisors	26-May-17	no	n/a	in specie	AUD	ord	16,404	16,404
BlackRock Fund Advisors	26-May-17	no	n/a	in specie	AUD	ord	20,028	20,028
BlackRock Fund Advisors	26-May-17	no	n/a	in specie	AUD	ord	11,137	11,137
BlackRock Fund Advisors	26-May-17	no	n/a	in specie	AUD	ord	1,431	1,431
BlackRock Fund Advisors	26-May-17	no	n/a	in specie	AUD	ord	7,724	7,724
BlackRock Institutional Trust Company, National Association	26-May-17	no	n/a	in specie	AUD	ord	530,160	530,160
BlackRock Investment Management (UK) Limited	26-May-17	no	n/a	in specie	AUD	ord	69,067	69,067
BlackRock Investment Management (UK) Limited	26-May-17	no	n/a	in specie	AUD	ord	18,626	18,626
BlackRock Investment Management (UK) Limited	26-May-17	no	n/a	collateral transfer	AUD	ord	6	6
BlackRock Advisors (UK) Limited	29-May-17	yes	7.99	on mkt buy	AUD	ord	1,936	1,936
BlackRock Advisors (UK) Limited	29-May-17	yes	7.99	on mkt buy	AUD	ord	1,936	1,936
BlackRock Advisors (UK) Limited	29-May-17	no	n/a	collateral transfer	AUD	ord	368,440	368,440
BlackRock Investment Management (Australia) Limited	30-May-17	yes	7.96	on mkt buy	AUD	ord	13,445	13,445
BlackRock Advisors (UK) Limited	30-May-17	yes	7.93	on mkt buy	AUD	ord	7,742	7,742
BlackRock Fund Advisors	30-May-17	no	n/a	in specie	AUD	ord	45,063	45,063
BlackRock Fund Advisors	30-May-17	no	n/a	in specie	AUD	ord	20,028	20,028
BlackRock Japan Co., Ltd.	31-May-17	yes	7.70	on mkt buy	AUD	ord	377	377
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord	8,808	8,808
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord	12,905	12,905

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	31-May-17	yes	7.70	on mkt buy	AUD	ord 118,336	118,336
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 67,472	67,472
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 15,951	15,951
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 145,388	145,388
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 21,138	21,138
BlackRock Fund Advisors	31-May-17	yes	7.70	on mkt buy	AUD	ord 87,630	87,630
BlackRock Fund Advisors	31-May-17	yes	7.70	on mkt buy	AUD	ord 359,028	359,028
BlackRock Fund Advisors	31-May-17	yes	7.70	on mkt buy	AUD	ord 8,541	8,541
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 11,886	11,886
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 73,271	73,271
BlackRock (Netherlands) B.V.	31-May-17	yes	7.70	on mkt buy	AUD	ord 1,586	1,586
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 4,636	4,636
BlackRock Investment Management (Australia) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 2,871	2,871
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 281	281
BlackRock International Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 706	706
BlackRock Financial Management, Inc.	31-May-17	yes	7.70	on mkt buy	AUD	ord 2,689	2,689
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 380	380
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 2,344	2,344
BlackRock (Netherlands) B.V.	31-May-17	yes	7.70	on mkt buy	AUD	ord 50	50
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 65	65
BlackRock Investment Management, LLC	31-May-17	yes	7.70	on mkt buy	AUD	ord 1,136	1,136
BlackRock Investment Management (Australia) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 91	91
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 7,030	7,030
BlackRock Advisors (UK) Limited	31-May-17	yes	7.78	on mkt buy	AUD	ord 7,030	7,030
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 4,770	4,770
BlackRock International Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 11,940	11,940
BlackRock Financial Management, Inc.	31-May-17	yes	7.70	on mkt buy	AUD	ord 45,521	45,521
BlackRock Advisors (UK) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 6,437	6,437
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 39,673	39,673
BlackRock (Netherlands) B.V.	31-May-17	yes	7.70	on mkt buy	AUD	ord 859	859
BlackRock Institutional Trust Company, National Association	31-May-17	yes	7.70	on mkt buy	AUD	ord 1,110	1,110
BlackRock Investment Management, LLC	31-May-17	yes	7.70	on mkt buy	AUD	ord 19,222	19,222
BlackRock Investment Management (Australia) Limited	31-May-17	yes	7.70	on mkt buy	AUD	ord 1,555	1,555
BlackRock Fund Advisors	01-Jun-17	yes	7.71	on mkt buy	AUD	ord 18,624	18,624
BlackRock Advisors (UK) Limited	01-Jun-17	yes	7.69	on mkt buy	AUD	ord 7,742	7,742
BlackRock Advisors (UK) Limited	01-Jun-17	yes	7.69	on mkt buy	AUD	ord 10,680	10,680
BlackRock Advisors (UK) Limited	01-Jun-17	yes	7.69	on mkt buy	AUD	ord 4,298	4,298
BlackRock Investment Management (Australia) Limited	01-Jun-17	yes	7.69	on mkt buy	AUD	ord 14,130	14,130
BlackRock Investment Management (UK) Limited	01-Jun-17	no	n/a	collateral transfer	AUD	ord 73,999	73,999
BlackRock Fund Advisors	02-Jun-17	yes	7.76	on mkt buy	AUD	ord 1,798	1,798
BlackRock Advisors (UK) Limited	02-Jun-17	yes	7.69	on mkt buy	AUD	ord 3,515	3,515
BlackRock Japan Co., Ltd.	02-Jun-17	no	n/a	collateral transfer	AUD	ord 74,000	74,000
BlackRock Advisors (UK) Limited	02-Jun-17	no	n/a	collateral transfer	AUD	ord 1,492,908	1,492,908
BlackRock Fund Advisors	05-Jun-17	no	n/a	in specie	AUD	ord 620	620
BlackRock Advisors (UK) Limited	05-Jun-17	no	n/a	collateral transfer	AUD	ord 240,764	240,764
BlackRock Investment Management (UK) Limited	05-Jun-17	no	n/a	collateral transfer	AUD	ord 29,319	29,319
BlackRock Advisors (UK) Limited	06-Jun-17	yes	7.43	on mkt buy	AUD	ord 7,032	7,032
BlackRock Financial Management, Inc.	06-Jun-17	yes	7.43	on mkt buy	AUD	ord 5,338	5,338
BlackRock Fund Advisors	06-Jun-17	no	n/a	in specie	AUD	ord 35,364	35,364
BlackRock Fund Advisors	07-Jun-17	no	n/a	in specie	AUD	ord 11,648	11,648
BlackRock Fund Advisors	07-Jun-17	no	n/a	in specie	AUD	ord 8,816	8,816
BlackRock Investment Management (UK) Limited	07-Jun-17	no	n/a	in specie	AUD	ord 85,106	85,106
BlackRock Investment Management (UK) Limited	07-Jun-17	no	n/a	in specie	AUD	ord 319,653	319,653

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	07-Jun-17	no	n/a	collateral transfer	AUD	ord	74,000	74,000
BlackRock Advisors (UK) Limited	08-Jun-17	yes	7.40	on mkt buy	AUD	ord	3,559	3,559
BlackRock Advisors, LLC	08-Jun-17	yes	7.40	on mkt buy	AUD	ord	68,764	68,764
BlackRock Fund Advisors	08-Jun-17	no	n/a	in specie	AUD	ord	3,136	3,136
BlackRock Advisors (UK) Limited	08-Jun-17	no	n/a	collateral transfer	AUD	ord	1,434,027	1,434,027
BlackRock Financial Management, Inc.	09-Jun-17	yes	7.32	on mkt buy	AUD	ord	142	142
BlackRock Fund Advisors	09-Jun-17	yes	7.33	on mkt buy	AUD	ord	1,798	1,798
BlackRock Advisors (UK) Limited	09-Jun-17	yes	7.32	on mkt buy	AUD	ord	1,226	1,226
BlackRock Fund Advisors	09-Jun-17	no	n/a	in specie	AUD	ord	3,100	3,100
BlackRock Advisors (UK) Limited	09-Jun-17	no	n/a	collateral transfer	AUD	ord	328,070	328,070
BlackRock Fund Advisors	12-Jun-17	no	n/a	in specie	AUD	ord	10,104	10,104
BlackRock Fund Advisors	12-Jun-17	no	n/a	in specie	AUD	ord	620	620
BlackRock Institutional Trust Company, National Association	13-Jun-17	no	n/a	in specie	AUD	ord	38,730	38,730
BlackRock Advisors (UK) Limited	13-Jun-17	yes	7.54	on mkt buy	AUD	ord	17,800	17,800
BlackRock Advisors (UK) Limited	13-Jun-17	yes	7.54	on mkt buy	AUD	ord	816	816
BlackRock Fund Advisors	13-Jun-17	no	n/a	in specie	AUD	ord	25,260	25,260
BlackRock Advisors (UK) Limited	13-Jun-17	no	n/a	collateral transfer	AUD	ord	2,258,997	2,258,997
BlackRock Investment Management (Australia) Limited	14-Jun-17	yes	7.41	on mkt buy	AUD	ord	46,741	46,741
BlackRock Advisors (UK) Limited	14-Jun-17	yes	7.38	on mkt buy	AUD	ord	14,240	14,240
BlackRock Advisors (UK) Limited	14-Jun-17	yes	7.38	on mkt buy	AUD	ord	405	405
BlackRock Advisors (UK) Limited	14-Jun-17	yes	7.38	on mkt buy	AUD	ord	3,070	3,070
BlackRock Advisors (UK) Limited	14-Jun-17	yes	7.39	on mkt buy	AUD	ord	89,000	89,000
BlackRock Fund Advisors	14-Jun-17	no	n/a	in specie	AUD	ord	4,032	4,032
BlackRock Fund Advisors	14-Jun-17	no	n/a	in specie	AUD	ord	20,430	20,430
BlackRock Japan Co., Ltd.	14-Jun-17	no	n/a	collateral transfer	AUD	ord	1,113,252	1,113,252
BlackRock Japan Co., Ltd.	15-Jun-17	yes	7.17	on mkt buy	AUD	ord	4,902	4,902
BlackRock Advisors (UK) Limited	15-Jun-17	yes	7.13	on mkt buy	AUD	ord	10,680	10,680
BlackRock Advisors (UK) Limited	15-Jun-17	yes	7.13	on mkt buy	AUD	ord	4,298	4,298
BlackRock Investment Management (Australia) Limited	15-Jun-17	yes	7.13	on mkt buy	AUD	ord	57,222	57,222
BlackRock Advisors (UK) Limited	15-Jun-17	yes	7.13	on mkt buy	AUD	ord	391,600	391,600
BlackRock Advisors (UK) Limited	15-Jun-17	no	n/a	collateral transfer	AUD	ord	0	0
BlackRock Investment Management (Australia) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	20,570	20,570
BlackRock Advisors (UK) Limited	16-Jun-17	yes	7.16	on mkt buy	AUD	ord	4,298	4,298
BlackRock Advisors (UK) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	70,607	70,607
BlackRock (Singapore) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	2,916	2,916
BlackRock Investment Management (UK) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	6,576	6,576
BlackRock Advisors (UK) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	62,701	62,701
BlackRock Asset Management North Asia Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	910	910
BlackRock (Singapore) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	2,589	2,589
BlackRock Investment Management (UK) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	5,840	5,840
BlackRock Institutional Trust Company, National Association	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	182,966	182,966
BlackRock Asset Management Canada Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	11,897	11,897
BlackRock Asset Management Canada Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	6,964	6,964
BlackRock Institutional Trust Company, National Association	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	17,987	17,987
BlackRock Institutional Trust Company, National Association	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	11,029	11,029
BlackRock Advisors (UK) Limited	16-Jun-17	yes	7.17	on mkt buy	AUD	ord	35,600	35,600
BlackRock Institutional Trust Company, National Association	16-Jun-17	no	n/a	in specie	AUD	ord	7,368	7,368
BlackRock Japan Co., Ltd.	16-Jun-17	no	n/a	collateral transfer	AUD	ord	5	5
BlackRock Advisors (UK) Limited	16-Jun-17	no	n/a	collateral transfer	AUD	ord	1,391,496	1,391,496
BlackRock Advisors (UK) Limited	19-Jun-17	yes	7.19	on mkt buy	AUD	ord	3,560	3,560
BlackRock Advisors (UK) Limited	19-Jun-17	yes	7.19	on mkt buy	AUD	ord	10,680	10,680
BlackRock Advisors (UK) Limited	19-Jun-17	yes	7.19	on mkt buy	AUD	ord	1,230	1,230
BlackRock Investment Management (Australia) Limited	19-Jun-17	yes	7.19	on mkt buy	AUD	ord	195,044	195,044

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	19-Jun-17	no	n/a	in specie	AUD	ord	3,910	3,910
BlackRock Advisors (UK) Limited	19-Jun-17	no	n/a	collateral transfer	AUD	ord	20,764	20,764
BlackRock Advisors (UK) Limited	20-Jun-17	yes	6.99	on mkt buy	AUD	ord	3,515	3,515
BlackRock Advisors (UK) Limited	20-Jun-17	yes	6.99	on mkt buy	AUD	ord	17,800	17,800
BlackRock Advisors (UK) Limited	20-Jun-17	yes	6.99	on mkt buy	AUD	ord	4,305	4,305
BlackRock Advisors (UK) Limited	20-Jun-17	yes	7.05	on mkt buy	AUD	ord	67,640	67,640
BlackRock Investment Management (Australia) Limited	20-Jun-17	yes	6.99	on mkt buy	AUD	ord	147,040	147,040
BlackRock Fund Advisors	20-Jun-17	no	n/a	in specie	AUD	ord	15,510	15,510
BlackRock Advisors (UK) Limited	20-Jun-17	no	n/a	collateral transfer	AUD	ord	4,228	4,228
BlackRock Advisors (UK) Limited	21-Jun-17	yes	6.80	on mkt buy	AUD	ord	830	830
BlackRock Advisors (UK) Limited	21-Jun-17	yes	6.77	on mkt buy	AUD	ord	10,680	10,680
BlackRock Institutional Trust Company, National Association	21-Jun-17	yes	6.77	on mkt buy	AUD	ord	3,305	3,305
BlackRock Fund Advisors	21-Jun-17	no	n/a	in specie	AUD	ord	2,346	2,346
BlackRock Fund Advisors	21-Jun-17	no	n/a	in specie	AUD	ord	14,108	14,108
BlackRock Japan Co., Ltd.	21-Jun-17	no	n/a	collateral transfer	AUD	ord	1,356,708	1,356,708
BlackRock Institutional Trust Company, National Association	22-Jun-17	no	n/a	in specie	AUD	ord	39,244	39,244
BlackRock Advisors (UK) Limited	22-Jun-17	yes	6.89	on mkt buy	AUD	ord	615	615
BlackRock Institutional Trust Company, National Association	22-Jun-17	yes	6.90	on mkt buy	AUD	ord	76,779	76,779
BlackRock Investment Management (UK) Limited	22-Jun-17	no	n/a	in specie	AUD	ord	326,910	326,910
BlackRock Investment Management (UK) Limited	22-Jun-17	no	n/a	in specie	AUD	ord	86,759	86,759
BlackRock Advisors (UK) Limited	22-Jun-17	no	n/a	collateral transfer	AUD	ord	13,854	13,854
BlackRock Investment Management, LLC	22-Jun-17	no	n/a	collateral transfer	AUD	ord	46,970	46,970
BlackRock Investment Management (UK) Limited	22-Jun-17	no	n/a	collateral transfer	AUD	ord	212,527	212,527
BlackRock Asset Management North Asia Limited	22-Jun-17	no	n/a	collateral transfer	AUD	ord	817	817
BlackRock Financial Management, Inc.	23-Jun-17	yes	6.93	on mkt buy	AUD	ord	196	196
BlackRock Advisors (UK) Limited	23-Jun-17	yes	6.92	on mkt buy	AUD	ord	616	616
BlackRock Advisors (UK) Limited	23-Jun-17	yes	6.92	on mkt buy	AUD	ord	1,232	1,232
BlackRock Investment Management (UK) Limited	23-Jun-17	no	n/a	in specie	AUD	ord	174,134	174,134
BlackRock Investment Management (UK) Limited	23-Jun-17	no	n/a	in specie	AUD	ord	7,866	7,866
BlackRock Investment Management (UK) Limited	23-Jun-17	no	n/a	in specie	AUD	ord	77,057	77,057
BlackRock Investment Management (UK) Limited	23-Jun-17	no	n/a	in specie	AUD	ord	10,117	10,117
BlackRock Japan Co., Ltd.	23-Jun-17	no	n/a	collateral transfer	AUD	ord	151,230	151,230
BlackRock Advisors (UK) Limited	23-Jun-17	no	n/a	collateral transfer	AUD	ord	271,418	271,418
BlackRock Fund Advisors	26-Jun-17	no	n/a	in specie	AUD	ord	13,350	13,350
BlackRock Fund Advisors	26-Jun-17	no	n/a	in specie	AUD	ord	14,934	14,934
BlackRock Advisors (UK) Limited	26-Jun-17	no	n/a	collateral transfer	AUD	ord	0	0
BlackRock Investment Management (UK) Limited	27-Jun-17	yes	6.81	on mkt buy	AUD	ord	38,817	38,817
BlackRock Advisors (UK) Limited	27-Jun-17	yes	6.81	on mkt buy	AUD	ord	3,042	3,042
BlackRock Investment Management (Australia) Limited	27-Jun-17	yes	6.82	on mkt buy	AUD	ord	1,285	1,285
BlackRock Advisors (UK) Limited	27-Jun-17	yes	6.82	on mkt buy	AUD	ord	3,559	3,559
BlackRock Institutional Trust Company, National Association	27-Jun-17	yes	6.82	on mkt buy	AUD	ord	41,803	41,803
BlackRock Fund Advisors	27-Jun-17	no	n/a	in specie	AUD	ord	40,050	40,050
BlackRock Fund Advisors	27-Jun-17	no	n/a	in specie	AUD	ord	17,355	17,355
BlackRock Fund Advisors	27-Jun-17	no	n/a	in specie	AUD	ord	620	620
BlackRock Fund Advisors	28-Jun-17	yes	6.80	on mkt buy	AUD	ord	9,619	9,619
BlackRock Fund Advisors	28-Jun-17	yes	6.79	on mkt buy	AUD	ord	20,513	20,513
BlackRock Fund Advisors	28-Jun-17	no	n/a	in specie	AUD	ord	20,025	20,025
BlackRock Advisors (UK) Limited	28-Jun-17	no	n/a	collateral transfer	AUD	ord	46,634	46,634
BlackRock Advisors (UK) Limited	29-Jun-17	yes	6.83	on mkt buy	AUD	ord	3,042	3,042
BlackRock Fund Advisors	29-Jun-17	no	n/a	in specie	AUD	ord	20,160	20,160
BlackRock Fund Advisors	29-Jun-17	no	n/a	in specie	AUD	ord	20,160	20,160

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	30-Jun-17	yes	6.86	on mkt buy	AUD	ord 1,232	1,232
BlackRock Asset Management Canada Limited	30-Jun-17	yes	6.86	on mkt buy	AUD	ord 42,872	42,872
BlackRock Institutional Trust Company, National Association	30-Jun-17	yes	6.86	on mkt buy	AUD	ord 11,089	11,089
BlackRock Fund Advisors	30-Jun-17	no	n/a	in specie	AUD	ord 53,760	53,760
BlackRock Fund Advisors	30-Jun-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Fund Advisors	30-Jun-17	no	n/a	in specie	AUD	ord 33,600	33,600
BlackRock Advisors (UK) Limited	03-Jul-17	yes	6.95	on mkt buy	AUD	ord 1,522	1,522
BlackRock Advisors (UK) Limited	03-Jul-17	yes	6.95	on mkt buy	AUD	ord 1,522	1,522
BlackRock Investment Management (Australia) Limited	04-Jul-17	yes	7.05	on mkt buy	AUD	ord 127,090	127,090
BlackRock Advisors (UK) Limited	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 4,566	4,566
BlackRock Advisors (UK) Limited	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 609	609
BlackRock Investment Management (Australia) Limited	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 20,025	20,025
BlackRock Fund Advisors	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 5,446	5,446
BlackRock Advisors, LLC	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 79,726	79,726
BlackRock Advisors, LLC	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 6,134	6,134
BlackRock Investment Management (Australia) Limited	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 5,580	5,580
BlackRock Investment Management (Australia) Limited	05-Jul-17	yes	7.06	on mkt buy	AUD	ord 7,433	7,433
BlackRock Fund Advisors	05-Jul-17	no	n/a	in specie	AUD	ord 7,084	7,084
BlackRock Fund Advisors	05-Jul-17	no	n/a	in specie	AUD	ord 26,880	26,880
BlackRock Fund Advisors	06-Jul-17	yes	6.99	on mkt buy	AUD	ord 10,829	10,829
BlackRock Advisors (UK) Limited	06-Jul-17	yes	6.97	on mkt buy	AUD	ord 122	122
BlackRock Institutional Trust Company, National Association	06-Jul-17	yes	6.96	on mkt buy	AUD	ord 36,153	36,153
BlackRock Fund Advisors	06-Jul-17	yes	6.96	on mkt buy	AUD	ord 14,013	14,013
BlackRock Fund Advisors	06-Jul-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Fund Advisors	06-Jul-17	no	n/a	in specie	AUD	ord 7,677	7,677
BlackRock Financial Management, Inc.	06-Jul-17	no	n/a	collateral transfer	AUD	ord 31,439	31,439
BlackRock Investment Management (UK) Limited	06-Jul-17	no	n/a	collateral transfer	AUD	ord 14,400	14,400
BlackRock Fund Advisors	07-Jul-17	yes	6.88	on mkt buy	AUD	ord 9,503	9,503
BlackRock Advisors (UK) Limited	07-Jul-17	yes	6.86	on mkt buy	AUD	ord 7,034	7,034
BlackRock Institutional Trust Company, National Association	07-Jul-17	yes	6.86	on mkt buy	AUD	ord 45,735	45,735
BlackRock Institutional Trust Company, National Association	07-Jul-17	yes	6.86	on mkt buy	AUD	ord 35,993	35,993
BlackRock Institutional Trust Company, National Association	07-Jul-17	yes	6.86	on mkt buy	AUD	ord 10,790	10,790
BlackRock (Netherlands) B.V.	07-Jul-17	yes	6.86	on mkt buy	AUD	ord 3,981	3,981
BlackRock Fund Advisors	07-Jul-17	no	n/a	in specie	AUD	ord 53,760	53,760
BlackRock Fund Advisors	07-Jul-17	no	n/a	in specie	AUD	ord 26,880	26,880
BlackRock Fund Advisors	07-Jul-17	no	n/a	in specie	AUD	ord 84,672	84,672
BlackRock Financial Management, Inc.	07-Jul-17	no	n/a	collateral transfer	AUD	ord 467	467
BlackRock Advisors (UK) Limited	10-Jul-17	yes	6.90	on mkt buy	AUD	ord 1,218	1,218
BlackRock Fund Advisors	10-Jul-17	yes	6.90	on mkt buy	AUD	ord 9,478	9,478
BlackRock Investment Management (UK) Limited	10-Jul-17	no	n/a	collateral transfer	AUD	ord 23,615	23,615
BlackRock Advisors (UK) Limited	11-Jul-17	yes	6.92	on mkt buy	AUD	ord 4,912	4,912
BlackRock Japan Co., Ltd.	11-Jul-17	no	n/a	collateral transfer	AUD	ord 73	73
BlackRock Investment Management (UK) Limited	11-Jul-17	no	n/a	collateral transfer	AUD	ord 22,225	22,225
BlackRock Investment Management (Australia) Limited	12-Jul-17	yes	6.97	on mkt buy	AUD	ord 110,308	110,308
BlackRock Advisors (UK) Limited	12-Jul-17	yes	6.98	on mkt buy	AUD	ord 10,228	10,228
BlackRock Advisors (UK) Limited	12-Jul-17	yes	6.98	on mkt buy	AUD	ord 7,895	7,895
BlackRock Investment Management (Australia) Limited	12-Jul-17	yes	6.98	on mkt buy	AUD	ord 10,013	10,013
BlackRock Fund Advisors	13-Jul-17	no	n/a	in specie	AUD	ord 4,410	4,410
BlackRock Japan Co., Ltd.	13-Jul-17	no	n/a	collateral transfer	AUD	ord 0	0
BlackRock Advisors (UK) Limited	14-Jul-17	yes	7.19	on mkt buy	AUD	ord 3,532	3,532
BlackRock Advisors (UK) Limited	14-Jul-17	yes	7.19	on mkt buy	AUD	ord 1,830	1,830
BlackRock Fund Advisors	14-Jul-17	no	n/a	in specie	AUD	ord 16,128	16,128
BlackRock Fund Advisors	17-Jul-17	no	n/a	in specie	AUD	ord 4,048	4,048
BlackRock Japan Co., Ltd.	17-Jul-17	no	n/a	collateral transfer	AUD	ord 247,737	247,737

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	18-Jul-17	yes	7.24	on mkt buy	AUD	ord 3,598	3,598
BlackRock Advisors, LLC	18-Jul-17	yes	7.24	on mkt buy	AUD	ord 87,792	87,792
BlackRock Advisors, LLC	18-Jul-17	yes	7.24	on mkt buy	AUD	ord 25,499	25,499
BlackRock Fund Advisors	18-Jul-17	no	n/a	in specie	AUD	ord 13,440	13,440
BlackRock Japan Co., Ltd.	18-Jul-17	no	n/a	collateral transfer	AUD	ord 110,630	110,630
BlackRock Advisors (UK) Limited	18-Jul-17	no	n/a	collateral transfer	AUD	ord 2,278,540	2,278,540
BlackRock Investment Management, LLC	19-Jul-17	yes	7.20	on mkt buy	AUD	ord 7,144	7,144
BlackRock Financial Management, Inc.	19-Jul-17	yes	7.20	on mkt buy	AUD	ord 10,685	10,685
BlackRock Fund Advisors	19-Jul-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Japan Co., Ltd.	19-Jul-17	no	n/a	collateral transfer	AUD	ord 107,202	107,202
BlackRock Fund Advisors	20-Jul-17	yes	7.18	on mkt buy	AUD	ord 8,712	8,712
BlackRock Advisors (UK) Limited	20-Jul-17	yes	7.21	on mkt buy	AUD	ord 10,596	10,596
BlackRock Japan Co., Ltd.	20-Jul-17	yes	7.21	on mkt buy	AUD	ord 1,666	1,666
BlackRock Investment Management (UK) Limited	20-Jul-17	yes	7.21	on mkt buy	AUD	ord 11,235	11,235
BlackRock Advisors (UK) Limited	20-Jul-17	yes	7.21	on mkt buy	AUD	ord 7,122	7,122
BlackRock Advisors (UK) Limited	20-Jul-17	yes	7.21	on mkt buy	AUD	ord 1,830	1,830
BlackRock Fund Advisors	20-Jul-17	no	n/a	in specie	AUD	ord 33,600	33,600
BlackRock Japan Co., Ltd.	20-Jul-17	no	n/a	collateral transfer	AUD	ord 3,629,731	3,629,731
BlackRock Advisors (UK) Limited	20-Jul-17	no	n/a	collateral transfer	AUD	ord 712,860	712,860
BlackRock Investment Management (Australia) Limited	21-Jul-17	yes	7.15	on mkt buy	AUD	ord 17,035	17,035
BlackRock Investment Management (UK) Limited	21-Jul-17	yes	7.15	on mkt buy	AUD	ord 3,253	3,253
BlackRock Fund Advisors	21-Jul-17	no	n/a	in specie	AUD	ord 3,036	3,036
BlackRock Asset Management Canada Limited	21-Jul-17	yes	7.15	on mkt buy	AUD	ord 1,077	1,077
BlackRock Fund Advisors	21-Jul-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Fund Advisors	21-Jul-17	no	n/a	in specie	AUD	ord 9,546	9,546
BlackRock Fund Advisors	21-Jul-17	no	n/a	in specie	AUD	ord 7,560	7,560
BlackRock Investment Management (UK) Limited	24-Jul-17	no	n/a	in specie	AUD	ord 67,242	67,242
BlackRock Japan Co., Ltd.	24-Jul-17	yes	7.15	on mkt buy	AUD	ord 103,924	103,924
BlackRock Fund Advisors	25-Jul-17	no	n/a	in specie	AUD	ord 5,376	5,376
BlackRock Fund Advisors	26-Jul-17	no	n/a	in specie	AUD	ord 1,898	1,898
BlackRock Fund Advisors	27-Jul-17	no	n/a	in specie	AUD	ord 13,294	13,294
BlackRock Japan Co., Ltd.	27-Jul-17	no	n/a	collateral transfer	AUD	ord 69,570	69,570
BlackRock Advisors (UK) Limited	27-Jul-17	no	n/a	collateral transfer	AUD	ord 1,633,108	1,633,108
BlackRock Fund Advisors	28-Jul-17	yes	6.86	on mkt buy	AUD	ord 16,186	16,186
BlackRock Fund Advisors	28-Jul-17	no	n/a	in specie	AUD	ord 1,898	1,898
BlackRock Fund Advisors	28-Jul-17	no	n/a	in specie	AUD	ord 9,108	9,108
BlackRock Fund Advisors	28-Jul-17	no	n/a	in specie	AUD	ord 7,084	7,084
BlackRock Investment Management (UK) Limited	28-Jul-17	no	n/a	in specie	AUD	ord 57,082	57,082
BlackRock Investment Management (Australia) Limited	31-Jul-17	yes	6.92	on mkt buy	AUD	ord 8,224	8,224
BlackRock Fund Advisors	31-Jul-17	no	n/a	in specie	AUD	ord 23,571	23,571
BlackRock Japan Co., Ltd.	31-Jul-17	no	n/a	collateral transfer	AUD	ord 5	5
BlackRock Advisors (UK) Limited	31-Jul-17	no	n/a	collateral transfer	AUD	ord 1,633,108	1,633,108
BlackRock Investment Management (UK) Limited	01-Aug-17	yes	7.19	on mkt buy	AUD	ord 6,133	6,133
BlackRock Investment Management, LLC	01-Aug-17	yes	7.19	on mkt buy	AUD	ord 17,538	17,538
BlackRock Institutional Trust Company, National Association	01-Aug-17	no	n/a	in specie	AUD	ord 8,442	8,442
BlackRock Advisors (UK) Limited	02-Aug-17	yes	7.14	on mkt buy	AUD	ord 3,533	3,533
BlackRock Investment Management (UK) Limited	02-Aug-17	yes	7.14	on mkt buy	AUD	ord 2,925	2,925
BlackRock Japan Co., Ltd.	02-Aug-17	no	n/a	collateral transfer	AUD	ord 1	1
BlackRock Advisors (UK) Limited	02-Aug-17	no	n/a	collateral transfer	AUD	ord 1,500,000	1,500,000
BlackRock Japan Co., Ltd.	03-Aug-17	yes	7.08	on mkt buy	AUD	ord 11,032	11,032
BlackRock Fund Advisors	03-Aug-17	yes	7.18	on mkt buy	AUD	ord 9,304	9,304
BlackRock Investment Management (UK) Limited	03-Aug-17	no	n/a	in specie	AUD	ord 66,127	66,127

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-Aug-17	no	n/a	in specie	AUD	ord 16,128	16,128
BlackRock Advisors (UK) Limited	03-Aug-17	no	n/a	collateral transfer	AUD	ord 2	2
BlackRock Advisors (UK) Limited	04-Aug-17	yes	7.20	on mkt buy	AUD	ord 3,534	3,534
BlackRock Advisors (UK) Limited	04-Aug-17	yes	7.20	on mkt buy	AUD	ord 29,433	29,433
BlackRock Advisors (UK) Limited	04-Aug-17	no	n/a	collateral transfer	AUD	ord 338,646	338,646
BlackRock Investment Management (UK) Limited	04-Aug-17	no	n/a	collateral transfer	AUD	ord 1,500,000	1,500,000
BlackRock Investment Management (Australia) Limited	07-Aug-17	yes	7.29	on mkt buy	AUD	ord 14,392	14,392
BlackRock Advisors (UK) Limited	07-Aug-17	yes	7.29	on mkt buy	AUD	ord 3,560	3,560
BlackRock Institutional Trust Company, National Association	07-Aug-17	yes	7.29	on mkt buy	AUD	ord 39,592	39,592
BlackRock Institutional Trust Company, National Association	07-Aug-17	yes	7.29	on mkt buy	AUD	ord 2,130	2,130
BlackRock Investment Management (Australia) Limited	07-Aug-17	yes	7.29	on mkt buy	AUD	ord 15,836	15,836
BlackRock Japan Co., Ltd.	07-Aug-17	no	n/a	collateral transfer	AUD	ord 3	3
BlackRock Advisors (UK) Limited	07-Aug-17	no	n/a	collateral transfer	AUD	ord 406,562	406,562
BlackRock Advisors (UK) Limited	08-Aug-17	yes	7.30	on mkt buy	AUD	ord 3,535	3,535
BlackRock Advisors (UK) Limited	08-Aug-17	yes	7.30	on mkt buy	AUD	ord 10,605	10,605
BlackRock Institutional Trust Company, National Association	08-Aug-17	yes	7.30	on mkt buy	AUD	ord 54,202	54,202
BlackRock Financial Management, Inc.	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 6,099	6,099
BlackRock Institutional Trust Company, National Association	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 1,523	1,523
BlackRock Institutional Trust Company, National Association	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 2,141	2,141
BlackRock International Limited	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 3,777	3,777
BlackRock Financial Management, Inc.	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 19,197	19,197
BlackRock Investment Management, LLC	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 12,226	12,226
BlackRock Financial Management, Inc.	09-Aug-17	yes	7.18	on mkt buy	AUD	ord 8,700	8,700
BlackRock Advisors (UK) Limited	09-Aug-17	yes	7.15	on mkt buy	AUD	ord 1,230	1,230
BlackRock Investment Management (Australia) Limited	09-Aug-17	yes	7.15	on mkt buy	AUD	ord 13,492	13,492
BlackRock Investment Management (UK) Limited	09-Aug-17	no	n/a	in specie	AUD	ord 4,576	4,576
BlackRock Fund Advisors	09-Aug-17	no	n/a	in specie	AUD	ord 15,168	15,168
BlackRock Japan Co., Ltd.	09-Aug-17	no	n/a	collateral transfer	AUD	ord 6	6
BlackRock Fund Advisors	11-Aug-17	no	n/a	in specie	AUD	ord 15,714	15,714
BlackRock Investment Management (UK) Limited	11-Aug-17	no	n/a	in specie	AUD	ord 20,680	20,680
BlackRock Japan Co., Ltd.	11-Aug-17	no	n/a	collateral transfer	AUD	ord 146	146
BlackRock Advisors (UK) Limited	11-Aug-17	no	n/a	collateral transfer	AUD	ord 2,202,336	2,202,336
BlackRock Advisors (UK) Limited	14-Aug-17	no	n/a	in specie	AUD	ord 16,834	16,834
BlackRock Fund Advisors	14-Aug-17	no	n/a	in specie	AUD	ord 28,400	28,400
BlackRock (Netherlands) B.V.	15-Aug-17	yes	6.85	on mkt buy	AUD	ord 752	752
BlackRock Japan Co., Ltd.	15-Aug-17	no	n/a	collateral transfer	AUD	ord 0	0
BlackRock Advisors (UK) Limited	15-Aug-17	no	n/a	collateral transfer	AUD	ord 2,208,424	2,208,424
BlackRock Japan Co., Ltd.	16-Aug-17	yes	7.22	on mkt buy	AUD	ord 9,071	9,071
BlackRock Advisors (UK) Limited	16-Aug-17	yes	7.22	on mkt buy	AUD	ord 3,070	3,070
BlackRock Fund Advisors	16-Aug-17	no	n/a	in specie	AUD	ord 31,428	31,428
BlackRock Advisors (UK) Limited	17-Aug-17	yes	7.31	on mkt buy	AUD	ord 9,076	9,076
BlackRock Investment Management (Australia) Limited	17-Aug-17	yes	7.34	on mkt buy	AUD	ord 15,451	15,451
BlackRock Investment Management (Australia) Limited	17-Aug-17	yes	7.34	on mkt buy	AUD	ord 10,996	10,996
BlackRock Fund Advisors	17-Aug-17	no	n/a	in specie	AUD	ord 14,200	14,200
BlackRock Investment Management (Australia) Limited	18-Aug-17	yes	7.38	on mkt buy	AUD	ord 528,893	528,893
BlackRock Advisors (UK) Limited	18-Aug-17	yes	7.46	on mkt buy	AUD	ord 3,575	3,575
BlackRock Fund Advisors	18-Aug-17	no	n/a	in specie	AUD	ord 11,150	11,150
BlackRock Advisors (UK) Limited	22-Aug-17	yes	7.33	on mkt buy	AUD	ord 6,080	6,080
BlackRock Investment Management (Australia) Limited	23-Aug-17	yes	7.46	on mkt buy	AUD	ord 13,592	13,592
BlackRock Advisors (UK) Limited	23-Aug-17	yes	7.47	on mkt buy	AUD	ord 2,456	2,456
BlackRock Advisors (UK) Limited	23-Aug-17	yes	7.47	on mkt buy	AUD	ord 616	616

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	23-Aug-17	yes	7.47	on mkt buy	AUD	ord 1,232	1,232
BlackRock Fund Advisors	23-Aug-17	no	n/a	in specie	AUD	ord 1,860	1,860
BlackRock Fund Advisors	24-Aug-17	no	n/a	in specie	AUD	ord 16,128	16,128
BlackRock Advisors (UK) Limited	24-Aug-17	no	n/a	collateral transfer	AUD	ord 2,239,280	2,239,280
BlackRock Advisors (UK) Limited	25-Aug-17	yes	7.62	on mkt buy	AUD	ord 565	565
BlackRock Advisors (UK) Limited	25-Aug-17	yes	7.59	on mkt buy	AUD	ord 1,130	1,130
BlackRock Advisors (UK) Limited	25-Aug-17	yes	7.61	on mkt buy	AUD	ord 3,554	3,554
BlackRock Advisors (UK) Limited	25-Aug-17	yes	7.59	on mkt buy	AUD	ord 565	565
BlackRock Investment Management (UK) Limited	25-Aug-17	no	n/a	in specie	AUD	ord 13,656	13,656
BlackRock Investment Management (UK) Limited	25-Aug-17	no	n/a	in specie	AUD	ord 89,246	89,246
BlackRock Investment Management (Australia) Limited	28-Aug-17	yes	7.60	on mkt buy	AUD	ord 14,658	14,658
BlackRock Fund Advisors	28-Aug-17	no	n/a	in specie	AUD	ord 15,640	15,640
BlackRock Advisors (UK) Limited	28-Aug-17	no	n/a	collateral transfer	AUD	ord 1,482,160	1,482,160
BlackRock Investment Management, LLC	28-Aug-17	no	n/a	collateral transfer	AUD	ord 26,504	26,504
BlackRock Investment Management (UK) Limited	28-Aug-17	no	n/a	collateral transfer	AUD	ord 2,169,362	2,169,362
BlackRock Asset Management North Asia Limited	28-Aug-17	no	n/a	collateral transfer	AUD	ord 4,135	4,135
BlackRock Fund Advisors	29-Aug-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Japan Co., Ltd.	29-Aug-17	no	n/a	collateral transfer	AUD	ord 2,006	2,006
BlackRock Advisors (UK) Limited	29-Aug-17	no	n/a	collateral transfer	AUD	ord 7,582	7,582
BlackRock Investment Management, LLC	29-Aug-17	no	n/a	collateral transfer	AUD	ord 58,428	58,428
BlackRock Asset Management North Asia Limited	29-Aug-17	no	n/a	collateral transfer	AUD	ord 162,408	162,408
BlackRock Investment Management (Australia) Limited	30-Aug-17	yes	7.64	on mkt buy	AUD	ord 27,489	27,489
BlackRock Investment Management (Australia) Limited	30-Aug-17	yes	7.64	on mkt buy	AUD	ord 20,988	20,988
BlackRock Japan Co., Ltd.	30-Aug-17	yes	7.67	on mkt buy	AUD	ord 15,593	15,593
BlackRock Advisors (UK) Limited	30-Aug-17	yes	7.65	on mkt buy	AUD	ord 614	614
BlackRock Advisors (UK) Limited	30-Aug-17	yes	7.65	on mkt buy	AUD	ord 616	616
BlackRock Advisors (UK) Limited	30-Aug-17	yes	7.65	on mkt buy	AUD	ord 1,228	1,228
BlackRock Investment Management (UK) Limited	30-Aug-17	no	n/a	in specie	AUD	ord 1,652	1,652
BlackRock Advisors (UK) Limited	30-Aug-17	no	n/a	in specie	AUD	ord 2,041	2,041
BlackRock Investment Management, LLC	31-Aug-17	yes	7.67	on mkt buy	AUD	ord 2,281	2,281
BlackRock Investment Management (Australia) Limited	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 12,336	12,336
BlackRock Investment Management (Australia) Limited	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 14,778	14,778
BlackRock Advisors (UK) Limited	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 16,059	16,059
BlackRock Investment Management, LLC	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 12,255	12,255
BlackRock Institutional Trust Company, National Association	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 5,757	5,757
BlackRock Institutional Trust Company, National Association	31-Aug-17	yes	7.65	on mkt buy	AUD	ord 99,209	99,209
BlackRock Fund Advisors	01-Sep-17	yes	7.68	on mkt buy	AUD	ord 3,368	3,368
BlackRock Advisors (UK) Limited	01-Sep-17	yes	7.68	on mkt buy	AUD	ord 3,065	3,065
BlackRock Investment Management (UK) Limited	04-Sep-17	no	n/a	in specie	AUD	ord 7,135	7,135
BlackRock Advisors (UK) Limited	05-Sep-17	yes	7.69	on mkt buy	AUD	ord 561	561
BlackRock Japan Co., Ltd.	05-Sep-17	no	n/a	collateral transfer	AUD	ord 2,195,445	2,195,445
BlackRock Investment Management (Australia) Limited	06-Sep-17	yes	7.80	on mkt buy	AUD	ord 47,442	47,442
BlackRock Advisors (UK) Limited	06-Sep-17	yes	7.75	on mkt buy	AUD	ord 621	621
BlackRock Investment Management, LLC	06-Sep-17	yes	7.75	on mkt buy	AUD	ord 4,597	4,597
BlackRock Fund Advisors	06-Sep-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Fund Advisors	06-Sep-17	no	n/a	in specie	AUD	ord 23,571	23,571
BlackRock Advisors (UK) Limited	07-Sep-17	yes	7.76	on mkt buy	AUD	ord 3,105	3,105
BlackRock Investment Management (Australia) Limited	07-Sep-17	yes	7.76	on mkt buy	AUD	ord 17,939	17,939
BlackRock Advisors (UK) Limited	08-Sep-17	yes	7.75	on mkt buy	AUD	ord 7,164	7,164
BlackRock Advisors (UK) Limited	08-Sep-17	yes	7.75	on mkt buy	AUD	ord 3,684	3,684
BlackRock Advisors (UK) Limited	08-Sep-17	yes	7.75	on mkt buy	AUD	ord 4,298	4,298
BlackRock Fund Advisors	08-Sep-17	no	n/a	in specie	AUD	ord 2,847	2,847

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	08-Sep-17	no	n/a	in specie	AUD	ord 47,040	47,040
BlackRock Fund Advisors	08-Sep-17	no	n/a	in specie	AUD	ord 9,546	9,546
BlackRock Asset Management Canada Limited	11-Sep-17	yes	7.85	on mkt buy	AUD	ord 1,196	1,196
BlackRock Fund Advisors	11-Sep-17	no	n/a	in specie	AUD	ord 11,150	11,150
BlackRock Financial Management, Inc.	12-Sep-17	yes	7.77	on mkt buy	AUD	ord 2,507	2,507
BlackRock Investment Management (Australia) Limited	12-Sep-17	yes	7.77	on mkt buy	AUD	ord 696	696
BlackRock Fund Advisors	12-Sep-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Japan Co., Ltd.	12-Sep-17	no	n/a	collateral transfer	AUD	ord 183,120	183,120
BlackRock Advisors (UK) Limited	12-Sep-17	no	n/a	collateral transfer	AUD	ord 228,251	228,251
BlackRock Advisors (UK) Limited	13-Sep-17	no	n/a	in specie	AUD	ord 17,950	17,950
BlackRock Investment Management (UK) Limited	13-Sep-17	yes	7.86	on mkt buy	AUD	ord 13,993	13,993
BlackRock Advisors (UK) Limited	13-Sep-17	yes	7.72	on mkt buy	AUD	ord 914	914
BlackRock Institutional Trust Company, National Association	14-Sep-17	yes	7.75	on mkt buy	AUD	ord 96,012	96,012
BlackRock Advisors (UK) Limited	14-Sep-17	yes	7.75	on mkt buy	AUD	ord 1,842	1,842
BlackRock Investment Management (Australia) Limited	14-Sep-17	yes	7.75	on mkt buy	AUD	ord 813	813
BlackRock Advisors (UK) Limited	14-Sep-17	yes	7.75	on mkt buy	AUD	ord 561	561
BlackRock Japan Co., Ltd.	14-Sep-17	no	n/a	collateral transfer	AUD	ord 14	14
BlackRock Advisors (UK) Limited	14-Sep-17	no	n/a	collateral transfer	AUD	ord 2,143	2,143
BlackRock Institutional Trust Company, National Association	15-Sep-17	yes	7.67	on mkt buy	AUD	ord 32,770	32,770
BlackRock Advisors (UK) Limited	15-Sep-17	yes	7.64	on mkt buy	AUD	ord 3,684	3,684
BlackRock Fund Advisors	15-Sep-17	yes	7.64	on mkt buy	AUD	ord 8,099	8,099
BlackRock Investment Management, LLC	18-Sep-17	no	n/a	collateral transfer	AUD	ord 1,074	1,074
BlackRock Investment Management (UK) Limited	18-Sep-17	no	n/a	collateral transfer	AUD	ord 3,312	3,312
BlackRock Asset Management North Asia Limited	18-Sep-17	no	n/a	collateral transfer	AUD	ord 1,165	1,165
BlackRock Advisors (UK) Limited	19-Sep-17	yes	7.57	on mkt buy	AUD	ord 42,672	42,672
BlackRock Advisors (UK) Limited	19-Sep-17	yes	7.57	on mkt buy	AUD	ord 614	614
BlackRock Fund Advisors	19-Sep-17	no	n/a	in specie	AUD	ord 20,160	20,160
BlackRock Fund Advisors	19-Sep-17	no	n/a	in specie	AUD	ord 16,128	16,128
BlackRock Investment Management, LLC	19-Sep-17	no	n/a	collateral transfer	AUD	ord 75	75

Annexure C

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

Kayla Mulvihill, Authorised Signatory	21-Sep-17 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)

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

Kayla Mulvihill, Authorised Signatory 21-Sep-17
Date

Type of agreement:	Global Master Securities Lending Agreement
Parties to agreement:	Party A - Citigroup Global Markets Limited Party B - HSBC Institutional Trust Services (Asia) Limited
Transfer date:	Refer to Annexure B (transactions identified as collateral transfers)
Holder of voting rights:	BlackRock Asset Management North Asia Limited (as investment manager for the funds)
Are there any restrictions on voting rights? If yes, detail	Yes. Unless otherwise agreed between the parties, the Registered Owner will not exercise any voting rights.
Scheduled return date (if any):	Not applicable.
Does the borrower have the right to return early? If yes, detail	Yes. Upon an Event of Default under the GMSLA, the GMSLA provides, broadly, that both parties payment and delivery obligations will be accelerated and replaced with an obligation of one party to pay a single cash sum to the other determined in accordance with the provisions of the GMSLA (as modified by the Annex). The GMSLA provides that the parties' right to terminate the Agreement upon notice will not affect the parties' existing obligations in respect of any outstanding loans of securities. The Annex amended and restricted the Borrower's termination rights – i.e. Borrower may not have the right to terminate and return the borrowed securities - as the Borrower was to borrow the securities issued by it (or its sister company) to provide protection against the insolvency of the issuer and so usual rights of termination in a GMSLA were restricted. Subject to the terms of the relevant Loan, the Borrower, may early terminate a Loan and return Equivalent Securities at any time provided that it "shall cease to have such entitlement if an Act of Insolvency with respect to any Security Issuer or any of the Borrower's or any Security Issuer's affiliates has occurred, or any such person takes any steps preparatory to any of the matters which would constitute an Act of Insolvency
Does the lender have the right to recall early? If yes, detail	Yes, at notice.
Will the securities be returned on settlement? If yes, detail any exceptions	Yes.

A copy of this agreement will be provided to ORIGIN ENERGY LTD or the Australian Securities and Investments Commission upon request.