

# 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.

01-Dec-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 20,800	20,800	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 3,250,844	3,250,844	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 38,985	38,985	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 1,312,997	1,312,997	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 436,671	436,671	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.	SSB-STATE STREET DUBLIN		ord 5,722,735	5,722,735	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 LONDON		ord 11,150	11,150	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, 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 67,601	67,601	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 6,949	6,949	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 12,130	12,130	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ord 780,193	780,193	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 1,105	1,105	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 6,619	6,619	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-BONY LUXEMBOURG		ord 2,082	2,082	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 49,857	49,857	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.	JPM-JP MORGAN CHASE - NEW YORK		ord 4,518	4,518	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	NT-NORTHERN TRUST UK		ord 215,610	215,610	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 2,383	2,383	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 251,481	251,481	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 85,457	85,457	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 23,457,091	23,457,091	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 1,758,240	1,758,240	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 286,528	286,528	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 584,435	584,435	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 19,594	19,594	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 218,458	218,458	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 1,247,635	1,247,635	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 73,293	73,293	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 22,136,771	22,136,771	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 57,262	57,262	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 19,596	19,596	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 4,202,704	4,202,704	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 1,274,540	1,274,540	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 56,580	56,580	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 810,222	810,222	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BONY EUROPE - LONDON		ord 1,014,593	1,014,593	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 49,787	49,787	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 861,283	861,283	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 667,624	667,624	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 93,993	93,993	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.	KAS-KAS BANK - AMSTERDAM		ord 129,956	129,956	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 1,497,596	1,497,596	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 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 421,155	421,155	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 145,093	145,093	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 EUROPE - LONDON		ord 403	403	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 18,985	18,985	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 1,074,147	1,074,147	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 37,846	37,846	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.	BNYM-BONY LUXEMBOURG		ord 1,779	1,779	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 2,238,409	2,238,409	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 239,692	239,692	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 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 713,889	713,889	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 863,664	863,664	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 4,143,372	4,143,372	subsidiary of BlackRock Inc.

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

01-Dec-17

Kayla Mulvihill,  
 Authorised Signatory

Date

## 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 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	1,633,109	1,633,109
BlackRock Investment Management (UK) Limited	31-Jul-17	no	n/a	in specie	AUD	ord	57,082	57,082
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
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 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

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			Cash	Non-cash	CCY			
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 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
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	2,169,115	2,169,115
BlackRock Asset Management North Asia Limited	28-Aug-17	no	n/a	collateral transfer	AUD	ord	4,134	4,134
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

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			Cash	Non-cash	CCY			
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
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 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 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	1,113	1,113
BlackRock Investment Management (UK) Limited	18-Sep-17	no	n/a	collateral transfer	AUD	ord	3,272	3,272
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
BlackRock Investment Management (Australia) Limited	20-Sep-17	yes	7.48	on mkt buy	AUD	ord	39,942	39,942
BlackRock Fund Advisors	20-Sep-17	no	n/a	in specie	AUD	ord	620	620
BlackRock Investment Management, LLC	20-Sep-17	no	n/a	collateral transfer	AUD	ord	21	21

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BlackRock Asset Management North Asia Limited	20-Sep-17	no	n/a	collateral transfer	AUD	ord	10	10
BlackRock Advisors (UK) Limited	21-Sep-17	yes	7.41	on mkt buy	AUD	ord	1,244	1,244
BlackRock Investment Management (Australia) Limited	21-Sep-17	yes	7.41	on mkt buy	AUD	ord	17,980	17,980
BlackRock Investment Management (Australia) Limited	21-Sep-17	yes	7.41	on mkt buy	AUD	ord	18,504	18,504
BlackRock Fund Advisors	21-Sep-17	no	n/a	in specie	AUD	ord	3,128	3,128
BlackRock Fund Advisors	21-Sep-17	no	n/a	in specie	AUD	ord	7,038	7,038
BlackRock Fund Advisors	21-Sep-17	no	n/a	in specie	AUD	ord	26,880	26,880
BlackRock Investment Management, LLC	21-Sep-17	no	n/a	collateral transfer	AUD	ord	262	262
BlackRock Fund Advisors	22-Sep-17	yes	7.36	on mkt buy	AUD	ord	8,285	8,285
BlackRock Financial Management, Inc.	22-Sep-17	yes	7.33	on mkt buy	AUD	ord	168	168
BlackRock Investment Management (Australia) Limited	22-Sep-17	yes	7.36	on mkt buy	AUD	ord	7,785	7,785
BlackRock Investment Management (UK) Limited	22-Sep-17	no	n/a	in specie	AUD	ord	10,456	10,456
BlackRock Advisors (UK) Limited	25-Sep-17	yes	7.35	on mkt buy	AUD	ord	614	614
BlackRock Fund Advisors	25-Sep-17	no	n/a	in specie	AUD	ord	21,504	21,504
BlackRock Advisors (UK) Limited	25-Sep-17	no	n/a	collateral transfer	AUD	ord	42,679	42,679
BlackRock Investment Management, LLC	25-Sep-17	no	n/a	collateral transfer	AUD	ord	124,193	124,193
BlackRock Investment Management (UK) Limited	25-Sep-17	no	n/a	collateral transfer	AUD	ord	236,708	236,708
BlackRock Asset Management North Asia Limited	25-Sep-17	no	n/a	collateral transfer	AUD	ord	100,557	100,557
BlackRock Advisors (UK) Limited	26-Sep-17	yes	7.39	on mkt buy	AUD	ord	3,556	3,556
BlackRock Financial Management, Inc.	26-Sep-17	yes	7.39	on mkt buy	AUD	ord	146,210	146,210
BlackRock Japan Co., Ltd.	26-Sep-17	no	n/a	collateral transfer	AUD	ord	1,704,000	1,704,000
BlackRock Investment Management, LLC	26-Sep-17	no	n/a	collateral transfer	AUD	ord	2,120	2,120
BlackRock Asset Management North Asia Limited	26-Sep-17	no	n/a	collateral transfer	AUD	ord	1,528	1,528
BlackRock Investment Management (Australia) Limited	27-Sep-17	yes	7.45	on mkt buy	AUD	ord	56,457	56,457
BlackRock Fund Advisors	27-Sep-17	no	n/a	in specie	AUD	ord	7,857	7,857
BlackRock Investment Management (UK) Limited	27-Sep-17	no	n/a	collateral transfer	AUD	ord	3,824	3,824
BlackRock Asset Management North Asia Limited	27-Sep-17	no	n/a	collateral transfer	AUD	ord	1,157	1,157
BlackRock Advisors (UK) Limited	28-Sep-17	yes	7.50	on mkt buy	AUD	ord	7,110	7,110
BlackRock Advisors (UK) Limited	28-Sep-17	yes	7.50	on mkt buy	AUD	ord	3,060	3,060
BlackRock Advisors (UK) Limited	28-Sep-17	yes	7.50	on mkt buy	AUD	ord	1,866	1,866
BlackRock Investment Management (Australia) Limited	28-Sep-17	yes	7.50	on mkt buy	AUD	ord	6,928	6,928
BlackRock Fund Advisors	28-Sep-17	yes	7.50	on mkt buy	AUD	ord	12,429	12,429
BlackRock Fund Advisors	28-Sep-17	no	n/a	in specie	AUD	ord	40,320	40,320
BlackRock Fund Advisors	28-Sep-17	no	n/a	in specie	AUD	ord	22,452	22,452
BlackRock Investment Management (UK) Limited	28-Sep-17	no	n/a	collateral transfer	AUD	ord	4,389	4,389
BlackRock Investment Management (Australia) Limited	29-Sep-17	no	n/a	in specie	AUD	ord	427,824	427,824
BlackRock Institutional Trust Company, National Association	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	31,776	31,776
BlackRock Investment Management (Australia) Limited	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	17,744	17,744
BlackRock Institutional Trust Company, National Association	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	100,280	100,280
BlackRock Investment Management (UK) Limited	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	2,685	2,685
BlackRock Investment Management (Australia) Limited	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	6,931	6,931
BlackRock Investment Management (Australia) Limited	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	4,671	4,671
BlackRock Investment Management (Australia) Limited	29-Sep-17	yes	7.48	on mkt buy	AUD	ord	8,439	8,439
BlackRock Fund Advisors	29-Sep-17	no	n/a	in specie	AUD	ord	36,288	36,288
BlackRock Institutional Trust Company, National Association	29-Sep-17	no	n/a	in specie	AUD	ord	78,754	78,754
BlackRock Advisors (UK) Limited	02-Oct-17	yes	7.40	on mkt buy	AUD	ord	3,555	3,555
BlackRock Fund Advisors	02-Oct-17	yes	7.40	on mkt buy	AUD	ord	8,509	8,509
BlackRock Fund Advisors	02-Oct-17	no	n/a	in specie	AUD	ord	39,555	39,555

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			Cash	Non-cash	CCY			
BlackRock Investment Management (UK) Limited	02-Oct-17	no	n/a	collateral transfer	AUD	ord	1,380	1,380
BlackRock Investment Management (UK) Limited	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	28,785	28,785
BlackRock Investment Management (UK) Limited	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	13,655	13,655
BlackRock Fund Advisors	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	21,478	21,478
BlackRock Advisors (UK) Limited	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	7,110	7,110
BlackRock Advisors (UK) Limited	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	420	420
BlackRock Institutional Trust Company, National Association	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	16,448	16,448
BlackRock Institutional Trust Company, National Association	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	6,562	6,562
BlackRock Fund Advisors	03-Oct-17	yes	7.34	on mkt buy	AUD	ord	11,001	11,001
BlackRock Investment Management, LLC	03-Oct-17	no	n/a	collateral transfer	AUD	ord	6,103	6,103
BlackRock Asset Management North Asia Limited	03-Oct-17	no	n/a	collateral transfer	AUD	ord	2,413	2,413
BlackRock Asset Management Canada Limited	04-Oct-17	yes	7.21	on mkt buy	AUD	ord	6,949	6,949
BlackRock Investment Management (Australia) Limited	04-Oct-17	yes	7.23	on mkt buy	AUD	ord	26,728	26,728
BlackRock Advisors (UK) Limited	04-Oct-17	yes	7.23	on mkt buy	AUD	ord	1,525	1,525
BlackRock Fund Advisors	04-Oct-17	no	n/a	in specie	AUD	ord	33,600	33,600
BlackRock Fund Advisors	04-Oct-17	no	n/a	in specie	AUD	ord	14,784	14,784
BlackRock Fund Advisors	04-Oct-17	no	n/a	in specie	AUD	ord	28,622	28,622
BlackRock Investment Management (UK) Limited	04-Oct-17	no	n/a	collateral transfer	AUD	ord	174,182	174,182
BlackRock Advisors (UK) Limited	05-Oct-17	yes	7.15	on mkt buy	AUD	ord	2,448	2,448
BlackRock Advisors (UK) Limited	05-Oct-17	yes	7.15	on mkt buy	AUD	ord	6,100	6,100
BlackRock Japan Co., Ltd.	05-Oct-17	no	n/a	collateral transfer	AUD	ord	45,966	45,966
BlackRock Financial Management, Inc.	06-Oct-17	yes	7.10	on mkt buy	AUD	ord	140	140
BlackRock Advisors (UK) Limited	06-Oct-17	yes	7.08	on mkt buy	AUD	ord	562	562
BlackRock Advisors (UK) Limited	06-Oct-17	yes	7.08	on mkt buy	AUD	ord	3,050	3,050
BlackRock Fund Advisors	06-Oct-17	no	n/a	in specie	AUD	ord	4,460	4,460
BlackRock Fund Advisors	06-Oct-17	no	n/a	in specie	AUD	ord	30,912	30,912
BlackRock Fund Advisors	06-Oct-17	no	n/a	in specie	AUD	ord	31,756	31,756
BlackRock Japan Co., Ltd.	06-Oct-17	no	n/a	collateral transfer	AUD	ord	143,114	143,114
BlackRock Investment Management (UK) Limited	06-Oct-17	no	n/a	collateral transfer	AUD	ord	10,140	10,140
BlackRock Asset Management North Asia Limited	06-Oct-17	no	n/a	collateral transfer	AUD	ord	2,458	2,458
BlackRock Advisors (UK) Limited	09-Oct-17	yes	7.09	on mkt buy	AUD	ord	7,110	7,110
BlackRock Investment Management, LLC	09-Oct-17	no	n/a	collateral transfer	AUD	ord	2,048	2,048
BlackRock Investment Management (UK) Limited	09-Oct-17	no	n/a	collateral transfer	AUD	ord	3,434	3,434
BlackRock Investment Management (UK) Limited	10-Oct-17	yes	7.10	on mkt buy	AUD	ord	8,169	8,169
BlackRock Advisors (UK) Limited	10-Oct-17	yes	7.00	on mkt buy	AUD	ord	25,761	25,761
BlackRock Institutional Trust Company, National Association	10-Oct-17	yes	7.00	on mkt buy	AUD	ord	13,764	13,764
BlackRock Fund Advisors	10-Oct-17	no	n/a	in specie	AUD	ord	21,504	21,504
BlackRock Advisors (UK) Limited	10-Oct-17	no	n/a	in specie	AUD	ord	22,420	22,420
BlackRock Financial Management, Inc.	10-Oct-17	no	n/a	collateral transfer	AUD	ord	107	107
BlackRock Investment Management (UK) Limited	10-Oct-17	no	n/a	collateral transfer	AUD	ord	2,874	2,874
BlackRock Institutional Trust Company, National Association	11-Oct-17	yes	7.02	on mkt buy	AUD	ord	23,839	23,839
BlackRock Fund Advisors	11-Oct-17	no	n/a	in specie	AUD	ord	13,380	13,380
BlackRock Fund Advisors	11-Oct-17	no	n/a	in specie	AUD	ord	26,880	26,880
BlackRock Fund Advisors	11-Oct-17	no	n/a	in specie	AUD	ord	10,752	10,752
BlackRock Fund Advisors	11-Oct-17	no	n/a	in specie	AUD	ord	3,036	3,036
BlackRock Financial Management, Inc.	11-Oct-17	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock Investment Management (UK) Limited	11-Oct-17	no	n/a	collateral transfer	AUD	ord	1,558	1,558
BlackRock Asset Management North Asia Limited	11-Oct-17	no	n/a	collateral transfer	AUD	ord	170	170
BlackRock Advisors (UK) Limited	12-Oct-17	yes	7.12	on mkt buy	AUD	ord	21,168	21,168
BlackRock Investment Management (Australia) Limited	12-Oct-17	yes	7.12	on mkt buy	AUD	ord	15,639	15,639

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected	
			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	12-Oct-17	yes	7.12	on mkt buy	AUD	ord	4,043	4,043
BlackRock Investment Management (UK) Limited	13-Oct-17	yes	7.17	on mkt buy	AUD	ord	5,031	5,031
BlackRock Fund Advisors	13-Oct-17	no	n/a	in specie	AUD	ord	15,168	15,168
BlackRock Investment Management (UK) Limited	13-Oct-17	no	n/a	in specie	AUD	ord	12,170	12,170
BlackRock Japan Co., Ltd.	13-Oct-17	no	n/a	collateral transfer	AUD	ord	145,103	145,103
BlackRock Financial Management, Inc.	13-Oct-17	no	n/a	collateral transfer	AUD	ord	4	4
BlackRock Investment Management (UK) Limited	13-Oct-17	no	n/a	collateral transfer	AUD	ord	1,219	1,219
BlackRock Asset Management North Asia Limited	13-Oct-17	no	n/a	collateral transfer	AUD	ord	1,047	1,047
BlackRock Advisors (UK) Limited	16-Oct-17	yes	7.35	on mkt buy	AUD	ord	4,904	4,904
BlackRock Advisors (UK) Limited	16-Oct-17	yes	7.35	on mkt buy	AUD	ord	4,291	4,291
BlackRock Fund Advisors	16-Oct-17	yes	7.35	on mkt buy	AUD	ord	9,712	9,712
BlackRock Investment Management, LLC	16-Oct-17	no	n/a	collateral transfer	AUD	ord	3,210	3,210
BlackRock Asset Management North Asia Limited	16-Oct-17	no	n/a	collateral transfer	AUD	ord	559	559
BlackRock Asset Management Canada Limited	17-Oct-17	yes	7.39	on mkt buy	AUD	ord	15,204	15,204
BlackRock Advisors (UK) Limited	17-Oct-17	yes	7.39	on mkt buy	AUD	ord	3,065	3,065
BlackRock Fund Advisors	17-Oct-17	no	n/a	in specie	AUD	ord	33,600	33,600
BlackRock Financial Management, Inc.	17-Oct-17	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock Asset Management North Asia Limited	17-Oct-17	no	n/a	collateral transfer	AUD	ord	1,200	1,200
BlackRock Financial Management, Inc.	18-Oct-17	yes	7.41	on mkt buy	AUD	ord	3,329	3,329
BlackRock Fund Advisors	18-Oct-17	no	n/a	in specie	AUD	ord	13,440	13,440
BlackRock Japan Co., Ltd.	18-Oct-17	no	n/a	collateral transfer	AUD	ord	117,072	117,072
BlackRock Investment Management (UK) Limited	19-Oct-17	yes	7.41	on mkt buy	AUD	ord	7,488	7,488
BlackRock Advisors (UK) Limited	19-Oct-17	yes	7.56	on mkt buy	AUD	ord	1,240	1,240
BlackRock Investment Management (Australia) Limited	19-Oct-17	yes	7.56	on mkt buy	AUD	ord	4,313	4,313
BlackRock Institutional Trust Company, National Association	19-Oct-17	yes	7.56	on mkt buy	AUD	ord	77,249	77,249
BlackRock Asset Management Canada Limited	19-Oct-17	yes	7.56	on mkt buy	AUD	ord	3,117	3,117
BlackRock Investment Management (UK) Limited	19-Oct-17	no	n/a	collateral transfer	AUD	ord	237	237
BlackRock Asset Management North Asia Limited	19-Oct-17	no	n/a	collateral transfer	AUD	ord	89	89
BlackRock Advisors (UK) Limited	20-Oct-17	yes	7.55	on mkt buy	AUD	ord	7,056	7,056
BlackRock Advisors (UK) Limited	20-Oct-17	yes	7.55	on mkt buy	AUD	ord	4,480	4,480
BlackRock Investment Management, LLC	20-Oct-17	no	n/a	collateral transfer	AUD	ord	7	7
BlackRock Asset Management North Asia Limited	20-Oct-17	no	n/a	collateral transfer	AUD	ord	44	44
BlackRock Advisors (UK) Limited	23-Oct-17	yes	7.52	on mkt buy	AUD	ord	3,528	3,528
BlackRock Investment Management (UK) Limited	23-Oct-17	no	n/a	collateral transfer	AUD	ord	13,113	13,113
BlackRock Advisors (UK) Limited	24-Oct-17	yes	7.46	on mkt buy	AUD	ord	1,525	1,525
BlackRock Fund Advisors	24-Oct-17	no	n/a	in specie	AUD	ord	3,036	3,036
BlackRock Fund Advisors	24-Oct-17	no	n/a	in specie	AUD	ord	13,156	13,156
BlackRock Investment Management, LLC	24-Oct-17	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Investment Management (UK) Limited	24-Oct-17	no	n/a	collateral transfer	AUD	ord	2	2
BlackRock Institutional Trust Company, National Association	25-Oct-17	yes	7.60	on mkt buy	AUD	ord	6,818	6,818
BlackRock Fund Advisors	25-Oct-17	no	n/a	in specie	AUD	ord	32,256	32,256
BlackRock Asset Management North Asia Limited	25-Oct-17	no	n/a	collateral transfer	AUD	ord	7	7
BlackRock Fund Advisors	26-Oct-17	no	n/a	in specie	AUD	ord	6,720	6,720
BlackRock Institutional Trust Company, National Association	26-Oct-17	no	n/a	in specie	AUD	ord	21,550	21,550
BlackRock Investment Management, LLC	26-Oct-17	no	n/a	collateral transfer	AUD	ord	259	259
BlackRock Asset Management North Asia Limited	26-Oct-17	no	n/a	collateral transfer	AUD	ord	1	1

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	7.85	on mkt buy	AUD	ord	14,112	14,112
BlackRock Japan Co., Ltd.	27-Oct-17	no	n/a	collateral transfer	AUD	ord	251,304	251,304
BlackRock Advisors (UK) Limited	27-Oct-17	no	n/a	collateral transfer	AUD	ord	23,368	23,368
BlackRock Investment Management, LLC	27-Oct-17	no	n/a	collateral transfer	AUD	ord	700	700
BlackRock Investment Management (UK) Limited	27-Oct-17	no	n/a	collateral transfer	AUD	ord	167,088	167,088
BlackRock Asset Management North Asia Limited	27-Oct-17	no	n/a	collateral transfer	AUD	ord	907	907
BlackRock Advisors (UK) Limited	31-Oct-17	yes	7.94	on mkt buy	AUD	ord	4,904	4,904
BlackRock Advisors (UK) Limited	31-Oct-17	yes	7.94	on mkt buy	AUD	ord	620	620
BlackRock Fund Advisors	31-Oct-17	no	n/a	in specie	AUD	ord	68,328	68,328
BlackRock Japan Co., Ltd.	31-Oct-17	no	n/a	collateral transfer	AUD	ord	553,444	553,444
BlackRock Advisors (UK) Limited	31-Oct-17	no	n/a	collateral transfer	AUD	ord	76,712	76,712
BlackRock Investment Management (UK) Limited	31-Oct-17	no	n/a	collateral transfer	AUD	ord	52	52
BlackRock Investment Management (Australia) Limited	01-Nov-17	yes	8.09	on mkt buy	AUD	ord	19,157	19,157
BlackRock Investment Management (Australia) Limited	01-Nov-17	yes	8.08	on mkt buy	AUD	ord	12,324	12,324
BlackRock Advisors (UK) Limited	01-Nov-17	yes	8.08	on mkt buy	AUD	ord	4,480	4,480
BlackRock Advisors (UK) Limited	01-Nov-17	yes	8.08	on mkt buy	AUD	ord	620	620
BlackRock Fund Advisors	01-Nov-17	yes	8.08	on mkt buy	AUD	ord	15,594	15,594
BlackRock Investment Management (UK) Limited	01-Nov-17	no	n/a	collateral transfer	AUD	ord	13	13
BlackRock Fund Advisors	02-Nov-17	no	n/a	in specie	AUD	ord	2,688	2,688
BlackRock Fund Advisors	02-Nov-17	no	n/a	in specie	AUD	ord	2,847	2,847
BlackRock Investment Management (UK) Limited	02-Nov-17	no	n/a	in specie	AUD	ord	8,702	8,702
BlackRock Advisors (UK) Limited	02-Nov-17	no	n/a	in specie	AUD	ord	10,255	10,255
BlackRock Japan Co., Ltd.	02-Nov-17	no	n/a	collateral transfer	AUD	ord	464,458	464,458
BlackRock Advisors (UK) Limited	02-Nov-17	no	n/a	collateral transfer	AUD	ord	256,001	256,001
BlackRock Investment Management (UK) Limited	02-Nov-17	no	n/a	collateral transfer	AUD	ord	5	5
BlackRock Investment Management (Australia) Limited	03-Nov-17	yes	8.15	on mkt buy	AUD	ord	13,156	13,156
BlackRock Advisors (UK) Limited	03-Nov-17	yes	8.17	on mkt buy	AUD	ord	8,960	8,960
BlackRock Investment Management, LLC	03-Nov-17	no	n/a	collateral transfer	AUD	ord	8	8
BlackRock Asset Management North Asia Limited	03-Nov-17	no	n/a	collateral transfer	AUD	ord	14	14
BlackRock Advisors (UK) Limited	06-Nov-17	yes	8.25	on mkt buy	AUD	ord	6,130	6,130
BlackRock Fund Advisors	06-Nov-17	no	n/a	in specie	AUD	ord	5,694	5,694
BlackRock Fund Advisors	06-Nov-17	no	n/a	in specie	AUD	ord	20,160	20,160
BlackRock Advisors (UK) Limited	06-Nov-17	no	n/a	collateral transfer	AUD	ord	26,747	26,747
BlackRock Investment Management, LLC	06-Nov-17	no	n/a	collateral transfer	AUD	ord	13	13
BlackRock Asset Management North Asia Limited	06-Nov-17	no	n/a	collateral transfer	AUD	ord	23	23
BlackRock Financial Management, Inc.	07-Nov-17	no	n/a	in specie	AUD	ord	4,518	4,518
BlackRock Investment Management (Australia) Limited	07-Nov-17	yes	8.44	on mkt buy	AUD	ord	834	834
BlackRock Advisors (UK) Limited	07-Nov-17	yes	8.44	on mkt buy	AUD	ord	20,229	20,229
BlackRock Fund Advisors	07-Nov-17	no	n/a	in specie	AUD	ord	4,014	4,014
BlackRock Investment Management, LLC	07-Nov-17	no	n/a	collateral transfer	AUD	ord	326	326
BlackRock Asset Management North Asia Limited	07-Nov-17	no	n/a	collateral transfer	AUD	ord	10	10
BlackRock Investment Management (Australia) Limited	08-Nov-17	yes	8.35	on mkt buy	AUD	ord	11,351	11,351
BlackRock Advisors (UK) Limited	08-Nov-17	yes	8.35	on mkt buy	AUD	ord	3,529	3,529
BlackRock Advisors (UK) Limited	08-Nov-17	yes	8.35	on mkt buy	AUD	ord	824	824
BlackRock Institutional Trust Company, National Association	08-Nov-17	yes	8.35	on mkt buy	AUD	ord	5,000	5,000
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ord	8,920	8,920
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ord	5,060	5,060
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ord	8,064	8,064
BlackRock Fund Advisors	08-Nov-17	no	n/a	in specie	AUD	ord	14,784	14,784

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 Japan Co., Ltd.	08-Nov-17	no	n/a	collateral transfer	AUD	ord	78,685	78,685
BlackRock Investment Management (UK) Limited	08-Nov-17	no	n/a	collateral transfer	AUD	ord	330	330
BlackRock Advisors (UK) Limited	09-Nov-17	yes	8.39	on mkt buy	AUD	ord	1,126	1,126
BlackRock Japan Co., Ltd.	09-Nov-17	no	n/a	collateral transfer	AUD	ord	95,284	95,284
BlackRock Advisors (UK) Limited	09-Nov-17	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Investment Management, LLC	09-Nov-17	no	n/a	collateral transfer	AUD	ord	4	4
BlackRock Asset Management North Asia Limited	09-Nov-17	no	n/a	collateral transfer	AUD	ord	81	81
BlackRock Advisors (UK) Limited	10-Nov-17	yes	8.39	on mkt buy	AUD	ord	4,482	4,482
BlackRock Advisors (UK) Limited	10-Nov-17	yes	8.39	on mkt buy	AUD	ord	17,292	17,292
BlackRock Advisors (UK) Limited	10-Nov-17	yes	8.39	on mkt buy	AUD	ord	5,319	5,319
BlackRock Fund Advisors	10-Nov-17	no	n/a	in specie	AUD	ord	1,077	1,077
BlackRock Fund Advisors	10-Nov-17	no	n/a	in specie	AUD	ord	3,742	3,742
BlackRock Investment Management (UK) Limited	10-Nov-17	no	n/a	in specie	AUD	ord	6,036	6,036
BlackRock Japan Co., Ltd.	10-Nov-17	no	n/a	collateral transfer	AUD	ord	491,936	491,936
BlackRock Advisors (UK) Limited	10-Nov-17	no	n/a	collateral transfer	AUD	ord	210,544	210,544
BlackRock Investment Management (UK) Limited	10-Nov-17	no	n/a	collateral transfer	AUD	ord	11	11
BlackRock Advisors (UK) Limited	13-Nov-17	yes	8.36	on mkt buy	AUD	ord	46,852	46,852
BlackRock Japan Co., Ltd.	13-Nov-17	no	n/a	collateral transfer	AUD	ord	207,188	207,188
BlackRock Investment Management, LLC	13-Nov-17	no	n/a	collateral transfer	AUD	ord	17	17
BlackRock Asset Management North Asia Limited	13-Nov-17	no	n/a	collateral transfer	AUD	ord	24	24
BlackRock Investment Management, LLC	14-Nov-17	yes	8.24	on mkt buy	AUD	ord	2,391	2,391
BlackRock Investment Management (Australia) Limited	14-Nov-17	yes	8.27	on mkt buy	AUD	ord	14,378	14,378
BlackRock Advisors (UK) Limited	14-Nov-17	yes	8.27	on mkt buy	AUD	ord	41,692	41,692
BlackRock Fund Advisors	14-Nov-17	no	n/a	in specie	AUD	ord	6,720	6,720
BlackRock Fund Advisors	14-Nov-17	no	n/a	in specie	AUD	ord	11,226	11,226
BlackRock Investment Management, LLC	14-Nov-17	no	n/a	collateral transfer	AUD	ord	49	49
BlackRock Asset Management North Asia Limited	14-Nov-17	no	n/a	collateral transfer	AUD	ord	85	85
BlackRock Investment Management (Australia) Limited	15-Nov-17	yes	8.08	on mkt buy	AUD	ord	14,378	14,378
BlackRock Institutional Trust Company, National Association	15-Nov-17	yes	8.08	on mkt buy	AUD	ord	70,514	70,514
BlackRock Fund Advisors	15-Nov-17	no	n/a	in specie	AUD	ord	17,472	17,472
BlackRock Investment Management, LLC	15-Nov-17	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock Investment Management (UK) Limited	15-Nov-17	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ord	37,632	37,632
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ord	6,720	6,720
BlackRock Fund Advisors	16-Nov-17	no	n/a	in specie	AUD	ord	57,520	57,520
BlackRock Japan Co., Ltd.	16-Nov-17	no	n/a	collateral transfer	AUD	ord	179,010	179,010
BlackRock Advisors (UK) Limited	16-Nov-17	no	n/a	collateral transfer	AUD	ord	3,067	3,067
BlackRock Advisors (UK) Limited	17-Nov-17	yes	8.18	on mkt buy	AUD	ord	367	367
BlackRock Fund Advisors	17-Nov-17	no	n/a	in specie	AUD	ord	5,352	5,352
BlackRock Investment Management (UK) Limited	17-Nov-17	no	n/a	collateral transfer	AUD	ord	44	44
BlackRock Institutional Trust Company, National Association	20-Nov-17	yes	8.20	on mkt buy	AUD	ord	29,247	29,247
BlackRock Advisors (UK) Limited	20-Nov-17	no	n/a	in specie	AUD	ord	11,150	11,150
BlackRock Japan Co., Ltd.	20-Nov-17	no	n/a	collateral transfer	AUD	ord	540,092	540,092
BlackRock Investment Management, LLC	20-Nov-17	no	n/a	collateral transfer	AUD	ord	21	21
BlackRock Asset Management North Asia Limited	20-Nov-17	no	n/a	collateral transfer	AUD	ord	110	110
BlackRock Advisors (UK) Limited	21-Nov-17	yes	8.26	on mkt buy	AUD	ord	4,545	4,545
BlackRock Institutional Trust Company, National Association	21-Nov-17	yes	8.26	on mkt buy	AUD	ord	107,448	107,448

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	21-Nov-17	yes	8.26	on mkt buy	AUD	ord	73,775	73,775
BlackRock Fund Advisors	21-Nov-17	no	n/a	in specie	AUD	ord	8,602	8,602
BlackRock Investment Management, LLC	21-Nov-17	no	n/a	collateral transfer	AUD	ord	14	14
BlackRock Asset Management North Asia Limited	21-Nov-17	no	n/a	collateral transfer	AUD	ord	39	39
BlackRock Investment Management (Australia) Limited	22-Nov-17	yes	8.39	on mkt buy	AUD	ord	7,465	7,465
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ord	24,890	24,890
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ord	7,584	7,584
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ord	7,484	7,484
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ord	7,484	7,484
BlackRock Fund Advisors	22-Nov-17	no	n/a	in specie	AUD	ord	7,484	7,484
BlackRock Investment Management (UK) Limited	22-Nov-17	no	n/a	collateral transfer	AUD	ord	3	3
BlackRock Asset Management North Asia Limited	23-Nov-17	no	n/a	collateral transfer	AUD	ord	316	316
BlackRock Advisors (UK) Limited	24-Nov-17	yes	8.58	on mkt buy	AUD	ord	3,065	3,065
BlackRock Advisors (UK) Limited	24-Nov-17	yes	8.58	on mkt buy	AUD	ord	1,230	1,230
BlackRock Investment Management (UK) Limited	24-Nov-17	no	n/a	in specie	AUD	ord	24,489	24,489
BlackRock Investment Management (UK) Limited	24-Nov-17	no	n/a	in specie	AUD	ord	22,877	22,877
BlackRock Japan Co., Ltd.	24-Nov-17	no	n/a	collateral transfer	AUD	ord	19,480	19,480
BlackRock Investment Management (UK) Limited	24-Nov-17	no	n/a	collateral transfer	AUD	ord	4	4
BlackRock Investment Management (Australia) Limited	27-Nov-17	yes	8.59	on mkt buy	AUD	ord	205,400	205,400
BlackRock Advisors (UK) Limited	27-Nov-17	yes	8.59	on mkt buy	AUD	ord	21,528	21,528
BlackRock Investment Management, LLC	27-Nov-17	no	n/a	collateral transfer	AUD	ord	32	32
BlackRock Asset Management North Asia Limited	27-Nov-17	no	n/a	collateral transfer	AUD	ord	91	91
BlackRock Investment Management (Australia) Limited	28-Nov-17	yes	8.80	on mkt buy	AUD	ord	221,832	221,832
BlackRock Advisors (UK) Limited	28-Nov-17	yes	8.80	on mkt buy	AUD	ord	910	910
BlackRock Investment Management (Australia) Limited	28-Nov-17	yes	8.80	on mkt buy	AUD	ord	14,064	14,064
BlackRock Fund Advisors	28-Nov-17	yes	8.80	on mkt buy	AUD	ord	3,620	3,620
BlackRock Fund Advisors	28-Nov-17	yes	8.80	on mkt buy	AUD	ord	1,240	1,240
BlackRock Fund Advisors	28-Nov-17	no	n/a	in specie	AUD	ord	7,592	7,592
BlackRock Investment Management, LLC	28-Nov-17	no	n/a	collateral transfer	AUD	ord	1	1
BlackRock Investment Management (UK) Limited	28-Nov-17	no	n/a	collateral transfer	AUD	ord	88	88
BlackRock Investment Management (Australia) Limited	29-Nov-17	yes	9.00	on mkt buy	AUD	ord	9,899	9,899
BlackRock Investment Management (Australia) Limited	29-Nov-17	yes	9.00	on mkt buy	AUD	ord	12,550	12,550
BlackRock Investment Management (Australia) Limited	29-Nov-17	yes	9.04	on mkt buy	AUD	ord	86,268	86,268
BlackRock Institutional Trust Company, National Association	29-Nov-17	yes	9.04	on mkt buy	AUD	ord	38,098	38,098
BlackRock Fund Advisors	29-Nov-17	no	n/a	in specie	AUD	ord	4,460	4,460
BlackRock Fund Advisors	29-Nov-17	no	n/a	in specie	AUD	ord	1,860	1,860
BlackRock Japan Co., Ltd.	29-Nov-17	no	n/a	collateral transfer	AUD	ord	1,779	1,779
BlackRock Advisors (UK) Limited	29-Nov-17	no	n/a	collateral transfer	AUD	ord	945,518	945,518
BlackRock Financial Management, Inc.	29-Nov-17	no	n/a	collateral transfer	AUD	ord	2,082	2,082
BlackRock Investment Management, LLC	29-Nov-17	no	n/a	collateral transfer	AUD	ord	18,966	18,966
BlackRock Investment Management (UK) Limited	29-Nov-17	no	n/a	collateral transfer	AUD	ord	50,096	50,096
BlackRock Asset Management North Asia Limited	29-Nov-17	no	n/a	collateral transfer	AUD	ord	6,575	6,575

## Annexure C

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

01-Dec-17  
**Kayla Mulvihill,** **Date**  
**Authorised Signatory**

### 7. Addresses

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

Name	Address
<b>BlackRock Group</b>	
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  
Date 01-Dec-17

<b>Type of agreement:</b>	Global Master Securities Lending Agreement
<b>Parties to agreement:</b>	Party A - Citigroup Global Markets Limited Party B - HSBC Institutional Trust Services (Asia) Limited
<b>Transfer date:</b>	Refer to Annexure B (transactions identified as collateral transfers)
<b>Holder of voting rights:</b>	BlackRock Asset Management North Asia Limited (as investment manager for the funds)
<b>Are there any restrictions on voting rights?</b> If yes, detail	Yes. Unless otherwise agreed between the parties, the Registered Owner will not exercise any voting rights.
<b>Scheduled return date (if any):</b>	Not applicable.
<b>Does the borrower have the right to return early?</b> 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
<b>Does the lender have the right to recall early?</b> If yes, detail	Yes, at notice.
<b>Will the securities be returned on settlement?</b> 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.