

**Form 603**Corporations Act 2001  
Section 671B**Notice of initial substantial holder**To Company Name/Scheme CSR LTDACN/ARSN 000 001 276**1. Details of substantial holder (1)**

Name BlackRock Group (BlackRock Inc. and subsidiaries named in Annexures  
 ACN/ARSN (if applicable) to this form)

The holder became a substantial holder on 26 / 07 / 2022**2. Details of voting power**

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)
Ord	24,274,729	24,274,729	5.00

**3. Details of relevant interests**

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

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

**4. Details of present registered holders**

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

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

**5. Consideration**

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

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

**6. Associates**

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

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

**7. Addresses**

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

Name	Address
see Annexure C	

**Signature**

print name Haley Owen

capacity Authorised Signatory\*

**sign here**

date 28 / 07 / 2022

\* At a meeting of the Board on 22 November 2013, the Directors resolved to approve the delegation of the preparation and lodgement of substantial shareholder notices on behalf of BlackRock Investment Management (Australia) Limited.

**DIRECTIONS**

- (1) If there are a number of substantial holders with similar or related relevant interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 7 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an associate has a relevant interest in.
- (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (7) Include details of:
  - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
  - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.
- (8) If the substantial holder is unable to determine the identity of the person ( eg. if the relevant interest arises because of an option) write "unknown".
- (9) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

Haley Owen,  
Authorised Signatory

28-Jul-22  
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 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		ORD264,191	264,191	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		ORD1,547,610	1,547,610	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		ORD54,741	54,741	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD1,496	1,496	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		ORD2,976	2,976	subsidiary of BlackRock Inc.

<b>Holder of Relevant Interests Name and ACN / ARSN (if applicable)</b>	<b>Nature of Relevant Interest</b>	<b>Registered Holder of Securities</b>	<b>Person entitled to be registered as holder</b>	<b>Class and number of Securities</b>	<b>Person's votes</b>	<b>Nature of Association</b>
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-CIBC MELLON GLOBAL SECURITIES - NEW YORK		ORD 3,283	3,283	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 171,731	171,731	subsidiary of BlackRock Inc.
BlackRock Asset Management Deutschland AG	Power to 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 1,027,558	1,027,558	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 567	567	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 10,781	10,781	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.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD 4,422	4,422	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 18,783	18,783	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 117,220	117,220	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 6,384,518	6,384,518	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.	BNP PRIME CUSTODY US		ORD	26,045	26,045	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	266,101	266,101	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD	24,995	24,995	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIGROUP GLOBAL MARKETS PRIME BROKERAGE - NEW YORK		ORD	5,316	5,316	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	2,802,978	2,802,978	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	MS-MORGAN STANLEY & CO INC		ORD	1,840	1,840	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	12,495	12,495	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	SSB-STATE STREET SACRAMENTO		ORD	1,688	1,688	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UBS- UBS- ZURICH		ORD	66,140	66,140	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association	
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNP-BNP PARIBAS AUSTRALIA - COGENT		ORD	81,917	81,917	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ORD	105,745	105,745	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.	CITI-Citigroup Australia - SYDNEY		ORD	116,536	116,536	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	HSBC-HSBC SYDNEY		ORD	779,311	779,311	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - SYDNEY		ORD	1,585,270	1,585,270	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	3,401,055	3,401,055	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	672,964	672,964	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	UBS- UBS- ZURICH		ORD	186,036	186,036	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	1,765	1,765	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association	
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	BNYM-BANK OF NY BRUS		ORD	297,677	297,677	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	212,742	212,742	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	CITI-CITIBANK INTERNATIONAL PLC (LUXEMBOURG BRANCH		ORD	62,302	62,302	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	350,915	350,915	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	270,869	270,869	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JPM CHASE - LONDON		ORD	2,445	2,445	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	203,968	203,968	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	121,790	121,790	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	201,507	201,507	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association	
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ORD	28,276	28,276	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	2,567	2,567	subsidiary of BlackRock Inc.
BlackRock Japan Co., Ltd.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as investment manager or trustee.	MITSUI-SUMITOMO TRUST		ORD	7,352	7,352	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as responsible entity.	JPM-JPM CHASE - SYDNEY		ORD	2,764,245	2,764,245	subsidiary of BlackRock Inc.



This is Annexure B of 6 pages referred to in form 603 Notice of initial substantial shareholder

28-Jul-22

Haley Owen,  
Authorised Signatory

Date

## 5. Consideration

CSR LTD (CSR)								
Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected		Person's votes affected
			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	30-Mar-22	yes	6.24	on mkt buy	AUD	ORD	10,651	10,651
BlackRock Investment Management (Australia) Limited	30-Mar-22	yes	6.22	on mkt buy	AUD	ORD	2,016	2,016
BlackRock Asset Management Deutschland AG	31-Mar-22	yes	6.15	on mkt buy	AUD	ORD	15,201	15,201
BlackRock Institutional Trust Company, National Association	31-Mar-22	yes	6.15	on mkt buy	AUD	ORD	33,451	33,451
BlackRock Institutional Trust Company, National Association	01-Apr-22	yes	6.08	on mkt buy	AUD	ORD	5,012	5,012
BlackRock Investment Management (Australia) Limited	04-Apr-22	yes	6.07	on mkt buy	AUD	ORD	1,512	1,512
BlackRock Investment Management (Australia) Limited	04-Apr-22	yes	6.07	on mkt buy	AUD	ORD	24,058	24,058
BlackRock Investment Management (Australia) Limited	04-Apr-22	yes	6.07	on mkt buy	AUD	ORD	2,296	2,296
BlackRock Investment Management (Australia) Limited	05-Apr-22	yes	6.10	on mkt buy	AUD	ORD	3,024	3,024
BlackRock Investment Management (Australia) Limited	05-Apr-22	yes	6.10	on mkt buy	AUD	ORD	1,479	1,479
BlackRock Investment Management (Australia) Limited	06-Apr-22	yes	6.05	on mkt buy	AUD	ORD	11,592	11,592
BlackRock Investment Management (Australia) Limited	06-Apr-22	yes	6.05	on mkt buy	AUD	ORD	1,604	1,604
BlackRock Institutional Trust Company, National Association	07-Apr-22	yes	6.00	on mkt buy	AUD	ORD	3,816	3,816
BlackRock Fund Advisors	08-Apr-22	no	n/a	in specie	AUD	ORD	5,922	5,922
BlackRock Investment Management (Australia) Limited	11-Apr-22	yes	6.02	on mkt buy	AUD	ORD	9,087	9,087
BlackRock Investment Management (Australia) Limited	12-Apr-22	yes	6.04	on mkt buy	AUD	ORD	1,898	1,898
BlackRock Investment Management (Australia) Limited	13-Apr-22	yes	6.04	on mkt buy	AUD	ORD	58,078	58,078
BlackRock Investment Management (Australia) Limited	13-Apr-22	yes	6.03	on mkt buy	AUD	ORD	4,016	4,016
BlackRock Fund Advisors	13-Apr-22	yes	6.03	on mkt buy	AUD	ORD	535	535
BlackRock Investment Management (Australia) Limited	14-Apr-22	yes	5.97	on mkt buy	AUD	ORD	37,402	37,402
BlackRock Investment Management (Australia) Limited	14-Apr-22	yes	5.97	on mkt buy	AUD	ORD	802	802
BlackRock Investment Management (Australia) Limited	19-Apr-22	yes	6.00	on mkt buy	AUD	ORD	19,048	19,048
BlackRock Investment Management (Australia) Limited	19-Apr-22	yes	5.99	on mkt buy	AUD	ORD	76,902	76,902
BlackRock Investment Management (Australia) Limited	19-Apr-22	yes	5.99	on mkt buy	AUD	ORD	49,076	49,076
BlackRock Investment Management (Australia) Limited	19-Apr-22	yes	5.99	on mkt buy	AUD	ORD	133,343	133,343
BlackRock Investment Management (Australia) Limited	19-Apr-22	yes	6.00	on mkt buy	AUD	ORD	4,189	4,189
BlackRock Advisors (UK) Limited	19-Apr-22	yes	6.03	on mkt buy	AUD	ORD	656	656
BlackRock Investment Management (Australia) Limited	20-Apr-22	yes	6.02	on mkt buy	AUD	ORD	33,690	33,690
BlackRock Institutional Trust Company, National Association	20-Apr-22	yes	6.02	on mkt buy	AUD	ORD	5,430	5,430
BlackRock Institutional Trust Company, National Association	20-Apr-22	yes	6.01	on mkt buy	AUD	ORD	658	658
BlackRock Investment Management (Australia) Limited	20-Apr-22	yes	5.99	on mkt buy	AUD	ORD	3,029	3,029
BlackRock Investment Management (Australia) Limited	20-Apr-22	yes	5.99	on mkt buy	AUD	ORD	2,383	2,383
BlackRock Investment Management (Australia) Limited	22-Apr-22	yes	6.10	on mkt buy	AUD	ORD	14,267	14,267

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	22-Apr-22	yes	6.10	on mkt buy	AUD	ORD	76,088	76,088
BlackRock Investment Management (Australia) Limited	22-Apr-22	yes	6.10	on mkt buy	AUD	ORD	95,110	95,110
BlackRock Investment Management (Australia) Limited	22-Apr-22	yes	6.11	on mkt buy	AUD	ORD	194,625	194,625
BlackRock Investment Management (Australia) Limited	22-Apr-22	yes	6.10	on mkt buy	AUD	ORD	1,108	1,108
BlackRock Investment Management (UK) Limited	22-Apr-22	yes	6.10	on mkt buy	AUD	ORD	8,997	8,997
BlackRock Fund Advisors	26-Apr-22	no	n/a	in specie	AUD	ORD	8,169	8,169
BlackRock Investment Management (Australia) Limited	26-Apr-22	yes	6.09	on mkt buy	AUD	ORD	8,738	8,738
BlackRock Advisors (UK) Limited	26-Apr-22	yes	6.06	on mkt buy	AUD	ORD	7,995	7,995
BlackRock Advisors (UK) Limited	26-Apr-22	yes	6.10	on mkt buy	AUD	ORD	656	656
BlackRock Asset Management Deutschland AG	26-Apr-22	yes	6.10	on mkt buy	AUD	ORD	6,664	6,664
BlackRock Investment Management (Australia) Limited	27-Apr-22	yes	6.06	on mkt buy	AUD	ORD	9,956	9,956
BlackRock Institutional Trust Company, National Association	27-Apr-22	yes	6.06	on mkt buy	AUD	ORD	8,967	8,967
BlackRock Investment Management (Australia) Limited	27-Apr-22	yes	6.06	on mkt buy	AUD	ORD	29,931	29,931
BlackRock Investment Management (Australia) Limited	27-Apr-22	yes	6.06	on mkt buy	AUD	ORD	34,886	34,886
BlackRock Investment Management (Australia) Limited	27-Apr-22	yes	6.06	on mkt buy	AUD	ORD	145,413	145,413
BlackRock Investment Management (Australia) Limited	28-Apr-22	yes	6.08	on mkt buy	AUD	ORD	12,104	12,104
BlackRock Institutional Trust Company, National Association	29-Apr-22	yes	6.12	on mkt buy	AUD	ORD	2,525	2,525
BlackRock Institutional Trust Company, National Association	29-Apr-22	yes	6.12	on mkt buy	AUD	ORD	1,837	1,837
BlackRock Institutional Trust Company, National Association	02-May-22	yes	6.08	on mkt buy	AUD	ORD	1,245	1,245
BlackRock Investment Management (Australia) Limited	02-May-22	yes	6.07	on mkt buy	AUD	ORD	94,973	94,973
BlackRock Fund Advisors	03-May-22	no	n/a	in specie	AUD	ORD	19,061	19,061
BlackRock Fund Advisors	04-May-22	no	n/a	in specie	AUD	ORD	1,644	1,644
BlackRock Institutional Trust Company, National Association	04-May-22	yes	5.96	on mkt buy	AUD	ORD	563	563
BlackRock Institutional Trust Company, National Association	04-May-22	yes	5.96	on mkt buy	AUD	ORD	1,187	1,187
BlackRock Investment Management (Australia) Limited	04-May-22	yes	5.97	on mkt buy	AUD	ORD	11,274	11,274
BlackRock Investment Management (Australia) Limited	04-May-22	yes	5.97	on mkt buy	AUD	ORD	59,799	59,799
BlackRock Investment Management (Australia) Limited	04-May-22	yes	5.97	on mkt buy	AUD	ORD	194,443	194,443
BlackRock Institutional Trust Company, National Association	04-May-22	yes	5.97	on mkt buy	AUD	ORD	17,564	17,564
BlackRock Investment Management (Australia) Limited	04-May-22	yes	5.98	on mkt buy	AUD	ORD	686	686
BlackRock Investment Management, LLC	04-May-22	yes	5.98	on mkt buy	AUD	ORD	7,325	7,325
BlackRock Institutional Trust Company, National Association	05-May-22	yes	5.98	on mkt buy	AUD	ORD	719	719
BlackRock Institutional Trust Company, National Association	05-May-22	yes	5.98	on mkt buy	AUD	ORD	486	486
BlackRock Investment Management (Australia) Limited	05-May-22	yes	5.98	on mkt buy	AUD	ORD	4,289	4,289
BlackRock Advisors (UK) Limited	05-May-22	yes	5.97	on mkt buy	AUD	ORD	1,968	1,968
BlackRock Institutional Trust Company, National Association	06-May-22	yes	5.90	on mkt buy	AUD	ORD	1,091	1,091
BlackRock Institutional Trust Company, National Association	06-May-22	yes	5.90	on mkt buy	AUD	ORD	504	504
BlackRock Investment Management (Australia) Limited	06-May-22	yes	5.90	on mkt buy	AUD	ORD	6,381	6,381
BlackRock Investment Management (Australia) Limited	06-May-22	yes	5.90	on mkt buy	AUD	ORD	35,268	35,268
BlackRock Investment Management (Australia) Limited	06-May-22	yes	5.91	on mkt buy	AUD	ORD	40,160	40,160
BlackRock Investment Management (Australia) Limited	06-May-22	yes	5.91	on mkt buy	AUD	ORD	1,506	1,506
BlackRock Advisors (UK) Limited	06-May-22	yes	5.91	on mkt buy	AUD	ORD	26,460	26,460
BlackRock Institutional Trust Company, National Association	09-May-22	yes	5.84	on mkt buy	AUD	ORD	388	388

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	09-May-22	yes	5.84	on mkt buy	AUD	ORD	646	646
BlackRock Asset Management Deutschland AG	09-May-22	yes	5.83	on mkt buy	AUD	ORD	5,100	5,100
BlackRock Fund Advisors	09-May-22	yes	5.83	on mkt buy	AUD	ORD	25,812	25,812
BlackRock Fund Advisors	09-May-22	yes	5.83	on mkt buy	AUD	ORD	23,476	23,476
BlackRock Institutional Trust Company, National Association	10-May-22	yes	5.69	on mkt buy	AUD	ORD	697	697
BlackRock Investment Management (Australia) Limited	10-May-22	yes	5.69	on mkt buy	AUD	ORD	11,044	11,044
BlackRock Fund Advisors	10-May-22	yes	5.69	on mkt buy	AUD	ORD	472	472
BlackRock Institutional Trust Company, National Association	11-May-22	yes	5.74	on mkt buy	AUD	ORD	252	252
BlackRock Fund Advisors	12-May-22	no	n/a	in specie	AUD	ORD	8,169	8,169
BlackRock Fund Advisors	12-May-22	no	n/a	in specie	AUD	ORD	1,638	1,638
BlackRock Institutional Trust Company, National Association	12-May-22	yes	5.21	on mkt buy	AUD	ORD	898	898
BlackRock Institutional Trust Company, National Association	13-May-22	yes	5.12	on mkt buy	AUD	ORD	1,530	1,530
BlackRock Investment Management (Australia) Limited	13-May-22	yes	5.16	on mkt buy	AUD	ORD	47,188	47,188
BlackRock Institutional Trust Company, National Association	16-May-22	yes	5.22	on mkt buy	AUD	ORD	607	607
BlackRock Institutional Trust Company, National Association	17-May-22	yes	5.15	on mkt buy	AUD	ORD	435	435
BlackRock Fund Advisors	18-May-22	no	n/a	in specie	AUD	ORD	5,446	5,446
BlackRock Institutional Trust Company, National Association	18-May-22	yes	5.17	on mkt buy	AUD	ORD	302	302
BlackRock Investment Management (Australia) Limited	18-May-22	yes	5.19	on mkt buy	AUD	ORD	1,604	1,604
BlackRock Investment Management (Australia) Limited	18-May-22	yes	5.19	on mkt buy	AUD	ORD	802	802
BlackRock Investment Management (Australia) Limited	19-May-22	yes	4.97	on mkt buy	AUD	ORD	686	686
BlackRock Fund Advisors	20-May-22	yes	4.94	on mkt buy	AUD	ORD	24,475	24,475
BlackRock Fund Advisors	20-May-22	yes	4.94	on mkt buy	AUD	ORD	3,005	3,005
BlackRock Institutional Trust Company, National Association	24-May-22	yes	5.03	on mkt buy	AUD	ORD	336	336
BlackRock Institutional Trust Company, National Association	24-May-22	yes	5.03	on mkt buy	AUD	ORD	719	719
BlackRock Institutional Trust Company, National Association	25-May-22	yes	4.93	on mkt buy	AUD	ORD	572	572
BlackRock Institutional Trust Company, National Association	25-May-22	yes	4.93	on mkt buy	AUD	ORD	544	544
BlackRock Institutional Trust Company, National Association	26-May-22	yes	4.91	on mkt buy	AUD	ORD	804	804
BlackRock Institutional Trust Company, National Association	26-May-22	yes	4.91	on mkt buy	AUD	ORD	471	471
BlackRock Investment Management (Australia) Limited	26-May-22	yes	4.90	on mkt buy	AUD	ORD	802	802
BlackRock Investment Management (Australia) Limited	30-May-22	yes	4.70	on mkt buy	AUD	ORD	7,028	7,028
BlackRock Asset Management Deutschland AG	31-May-22	yes	4.67	on mkt buy	AUD	ORD	5,124	5,124
BlackRock Fund Advisors	31-May-22	yes	4.67	on mkt buy	AUD	ORD	34,605	34,605
BlackRock Fund Advisors	31-May-22	yes	4.67	on mkt buy	AUD	ORD	65,116	65,116
BlackRock Investment Management (Australia) Limited	31-May-22	yes	4.67	on mkt buy	AUD	ORD	11,845	11,845
BlackRock Fund Advisors	02-Jun-22	no	n/a	in specie	AUD	ORD	1,548	1,548
BlackRock Investment Management (Australia) Limited	03-Jun-22	yes	4.54	on mkt buy	AUD	ORD	8,822	8,822
BlackRock Investment Management (UK) Limited	03-Jun-22	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Investment Management (UK) Limited	06-Jun-22	yes	4.52	on mkt buy	AUD	ORD	2,445	2,445
BlackRock Institutional Trust Company, National Association	07-Jun-22	yes	4.51	on mkt buy	AUD	ORD	680	680
BlackRock Investment Management (Australia) Limited	07-Jun-22	yes	4.50	on mkt buy	AUD	ORD	802	802
BlackRock Institutional Trust Company, National Association	07-Jun-22	yes	4.50	on mkt buy	AUD	ORD	6,987	6,987
BlackRock Institutional Trust Company, National Association	08-Jun-22	yes	4.53	on mkt buy	AUD	ORD	476	476
BlackRock Investment Management (Australia) Limited	08-Jun-22	yes	4.53	on mkt buy	AUD	ORD	686	686
BlackRock Fund Advisors	09-Jun-22	no	n/a	in specie	AUD	ORD	40,560	40,560

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	09-Jun-22	yes	4.46	on mkt buy	AUD	ORD	9,624	9,624
BlackRock Advisors (UK) Limited	09-Jun-22	yes	4.46	on mkt buy	AUD	ORD	17,730	17,730
BlackRock Fund Advisors	14-Jun-22	no	n/a	in specie	AUD	ORD	6,852	6,852
BlackRock Investment Management (Australia) Limited	14-Jun-22	yes	4.19	on mkt buy	AUD	ORD	802	802
BlackRock Investment Management (Australia) Limited	14-Jun-22	yes	4.19	on mkt buy	AUD	ORD	802	802
BlackRock Investment Management (Australia) Limited	15-Jun-22	yes	4.16	on mkt buy	AUD	ORD	2,008	2,008
BlackRock Investment Management (Australia) Limited	15-Jun-22	yes	4.16	on mkt buy	AUD	ORD	2,931	2,931
BlackRock Institutional Trust Company, National Association	16-Jun-22	yes	4.13	on mkt buy	AUD	ORD	479	479
BlackRock Institutional Trust Company, National Association	16-Jun-22	yes	4.12	on mkt buy	AUD	ORD	13,244	13,244
BlackRock Investment Management (Australia) Limited	16-Jun-22	yes	4.08	on mkt buy	AUD	ORD	686	686
BlackRock Investment Management (Australia) Limited	16-Jun-22	yes	4.08	on mkt buy	AUD	ORD	1,506	1,506
BlackRock Advisors (UK) Limited	16-Jun-22	yes	4.08	on mkt buy	AUD	ORD	1,312	1,312
BlackRock Advisors (UK) Limited	16-Jun-22	yes	4.08	on mkt buy	AUD	ORD	1,968	1,968
BlackRock Fund Advisors	17-Jun-22	no	n/a	in specie	AUD	ORD	6,810	6,810
BlackRock Investment Management (Australia) Limited	17-Jun-22	yes	4.01	on mkt buy	AUD	ORD	7,623	7,623
BlackRock Investment Management (Australia) Limited	17-Jun-22	yes	4.01	on mkt buy	AUD	ORD	130	130
BlackRock Investment Management (Australia) Limited	17-Jun-22	yes	4.01	on mkt buy	AUD	ORD	3,054	3,054
BlackRock Investment Management (UK) Limited	17-Jun-22	yes	4.01	on mkt buy	AUD	ORD	11,980	11,980
BlackRock Asset Management Deutschland AG	20-Jun-22	yes	3.99	on mkt buy	AUD	ORD	5,087	5,087
BlackRock Advisors (UK) Limited	20-Jun-22	no	n/a	collateral transfer	AUD	ORD	1	1
BlackRock Asset Management Deutschland AG	21-Jun-22	yes	4.09	on mkt buy	AUD	ORD	5,087	5,087
BlackRock Institutional Trust Company, National Association	22-Jun-22	yes	4.09	on mkt buy	AUD	ORD	618	618
BlackRock Fund Advisors	22-Jun-22	yes	4.10	on mkt buy	AUD	ORD	35,960	35,960
BlackRock Institutional Trust Company, National Association	23-Jun-22	yes	4.12	on mkt buy	AUD	ORD	369	369
BlackRock Investment Management (Australia) Limited	23-Jun-22	yes	4.10	on mkt buy	AUD	ORD	3,012	3,012
BlackRock Fund Advisors	24-Jun-22	no	n/a	in specie	AUD	ORD	5,472	5,472
BlackRock Investment Management (Australia) Limited	24-Jun-22	yes	4.13	on mkt buy	AUD	ORD	802	802
BlackRock Fund Advisors	27-Jun-22	yes	4.23	on mkt buy	AUD	ORD	920	920
BlackRock Advisors (UK) Limited	27-Jun-22	yes	4.23	on mkt buy	AUD	ORD	9,017	9,017
BlackRock Fund Advisors	27-Jun-22	yes	4.23	on mkt buy	AUD	ORD	8,395	8,395
BlackRock Investment Management (Australia) Limited	28-Jun-22	yes	4.27	on mkt buy	AUD	ORD	15,238	15,238
BlackRock Investment Management (Australia) Limited	29-Jun-22	yes	4.12	on mkt buy	AUD	ORD	6,416	6,416
BlackRock Investment Management (Australia) Limited	29-Jun-22	yes	4.14	on mkt buy	AUD	ORD	15,099	15,099
BlackRock Investment Management (Australia) Limited	29-Jun-22	yes	4.14	on mkt buy	AUD	ORD	99,964	99,964
BlackRock Institutional Trust Company, National Association	29-Jun-22	yes	4.15	on mkt buy	AUD	ORD	15,563	15,563
BlackRock Institutional Trust Company, National Association	29-Jun-22	yes	4.14	on mkt buy	AUD	ORD	684	684
BlackRock Fund Advisors	29-Jun-22	yes	4.12	on mkt buy	AUD	ORD	6,570	6,570
BlackRock Fund Advisors	30-Jun-22	no	n/a	in specie	AUD	ORD	1,371	1,371
BlackRock Institutional Trust Company, National Association	30-Jun-22	yes	4.10	on mkt buy	AUD	ORD	2,686	2,686
BlackRock Investment Management (Australia) Limited	30-Jun-22	yes	4.10	on mkt buy	AUD	ORD	17,021	17,021
BlackRock Advisors, LLC	30-Jun-22	yes	4.06	on mkt buy	AUD	ORD	555	555
BlackRock Fund Advisors	30-Jun-22	yes	4.06	on mkt buy	AUD	ORD	791	791
BlackRock Asset Management Deutschland AG	30-Jun-22	yes	4.06	on mkt buy	AUD	ORD	9,045	9,045
BlackRock Institutional Trust Company, National Association	30-Jun-22	yes	4.06	on mkt buy	AUD	ORD	6,315	6,315
BlackRock Institutional Trust Company, National Association	01-Jul-22	yes	4.10	on mkt buy	AUD	ORD	3,472	3,472

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BlackRock Investment Management (Australia) Limited	01-Jul-22	yes	4.09	on mkt buy	AUD	ORD 9,795	9,795
BlackRock Investment Management (Australia) Limited	01-Jul-22	yes	4.09	on mkt buy	AUD	ORD 81,380	81,380
BlackRock Investment Management (UK) Limited	01-Jul-22	yes	4.06	on mkt buy	AUD	ORD 1,765	1,765
BlackRock Institutional Trust Company, National Association	04-Jul-22	yes	4.15	on mkt buy	AUD	ORD 1,167	1,167
BLACKROCK FINANCIAL MANAGEMENT, INC.	04-Jul-22	yes	4.15	on mkt buy	AUD	ORD 4,422	4,422
BlackRock Investment Management (Australia) Limited	04-Jul-22	yes	4.15	on mkt buy	AUD	ORD 2,994	2,994
BlackRock Institutional Trust Company, National Association	05-Jul-22	yes	4.12	on mkt buy	AUD	ORD 1,051	1,051
BlackRock Investment Management (Australia) Limited	05-Jul-22	yes	4.11	on mkt buy	AUD	ORD 18,350	18,350
BlackRock Advisors (UK) Limited	05-Jul-22	yes	4.11	on mkt buy	AUD	ORD 9,358	9,358
BlackRock Institutional Trust Company, National Association	06-Jul-22	yes	4.12	on mkt buy	AUD	ORD 2,323	2,323
BlackRock Investment Management (Australia) Limited	06-Jul-22	yes	4.12	on mkt buy	AUD	ORD 184,585	184,585
BlackRock Investment Management (Australia) Limited	06-Jul-22	yes	4.10	on mkt buy	AUD	ORD 9,980	9,980
BlackRock Investment Management (Australia) Limited	06-Jul-22	yes	4.10	on mkt buy	AUD	ORD 2,495	2,495
BlackRock Advisors (UK) Limited	06-Jul-22	yes	4.10	on mkt buy	AUD	ORD 8,791	8,791
BlackRock Fund Advisors	06-Jul-22	yes	4.10	on mkt buy	AUD	ORD 855	855
BlackRock Institutional Trust Company, National Association	07-Jul-22	yes	4.19	on mkt buy	AUD	ORD 2,450	2,450
BlackRock Investment Management (Australia) Limited	07-Jul-22	yes	4.19	on mkt buy	AUD	ORD 8,599	8,599
BlackRock Institutional Trust Company, National Association	07-Jul-22	yes	4.18	on mkt buy	AUD	ORD 890	890
BlackRock Advisors, LLC	07-Jul-22	yes	4.18	on mkt buy	AUD	ORD 416	416
BlackRock Institutional Trust Company, National Association	08-Jul-22	yes	4.24	on mkt buy	AUD	ORD 2,344	2,344
BlackRock Asset Management Deutschland AG	08-Jul-22	yes	4.25	on mkt buy	AUD	ORD 6,850	6,850
BlackRock Fund Advisors	11-Jul-22	no	n/a	in specie	AUD	ORD 13,910	13,910
BlackRock Institutional Trust Company, National Association	11-Jul-22	yes	4.23	on mkt buy	AUD	ORD 785	785
BlackRock Institutional Trust Company, National Association	11-Jul-22	yes	4.23	on mkt buy	AUD	ORD 4,309	4,309
BlackRock Investment Management (Australia) Limited	11-Jul-22	yes	4.20	on mkt buy	AUD	ORD 661	661
BlackRock Institutional Trust Company, National Association	12-Jul-22	yes	4.17	on mkt buy	AUD	ORD 520	520
BlackRock Institutional Trust Company, National Association	12-Jul-22	yes	4.17	on mkt buy	AUD	ORD 2,461	2,461
BlackRock Investment Management (Australia) Limited	12-Jul-22	yes	4.16	on mkt buy	AUD	ORD 12,475	12,475
BlackRock Institutional Trust Company, National Association	13-Jul-22	yes	4.21	on mkt buy	AUD	ORD 357	357
BlackRock Institutional Trust Company, National Association	13-Jul-22	yes	4.21	on mkt buy	AUD	ORD 1,421	1,421
BlackRock Institutional Trust Company, National Association	13-Jul-22	yes	4.21	on mkt buy	AUD	ORD 2,623	2,623
BlackRock Investment Management (Australia) Limited	13-Jul-22	yes	4.21	on mkt buy	AUD	ORD 25,303	25,303
BlackRock Investment Management (Australia) Limited	13-Jul-22	yes	4.22	on mkt buy	AUD	ORD 802	802
BlackRock Institutional Trust Company, National Association	14-Jul-22	yes	4.19	on mkt buy	AUD	ORD 624	624
BlackRock Institutional Trust Company, National Association	14-Jul-22	yes	4.19	on mkt buy	AUD	ORD 1,935	1,935
BlackRock Investment Management (Australia) Limited	14-Jul-22	yes	4.19	on mkt buy	AUD	ORD 1,786	1,786
BlackRock Investment Management (Australia) Limited	14-Jul-22	yes	4.20	on mkt buy	AUD	ORD 1,996	1,996
BlackRock Investment Management (Australia) Limited	14-Jul-22	yes	4.20	on mkt buy	AUD	ORD 2,495	2,495
BlackRock Japan Co., Ltd.	14-Jul-22	yes	4.20	on mkt buy	AUD	ORD 3,490	3,490
BlackRock Japan Co., Ltd.	14-Jul-22	yes	4.20	on mkt buy	AUD	ORD 3,862	3,862
BlackRock Advisors, LLC	14-Jul-22	yes	4.20	on mkt buy	AUD	ORD 282	282
BlackRock Institutional Trust Company, National Association	15-Jul-22	yes	4.15	on mkt buy	AUD	ORD 361	361

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
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BlackRock Institutional Trust Company, National Association	15-Jul-22	yes	4.15	on mkt buy	AUD	ORD 1,778	1,778
BlackRock Investment Management (Australia) Limited	15-Jul-22	yes	4.15	on mkt buy	AUD	ORD 2,994	2,994
BlackRock Institutional Trust Company, National Association	18-Jul-22	yes	4.27	on mkt buy	AUD	ORD 393	393
BlackRock Institutional Trust Company, National Association	18-Jul-22	yes	4.27	on mkt buy	AUD	ORD 1,470	1,470
BlackRock Fund Advisors	19-Jul-22	no	n/a	in specie	AUD	ORD 5,278	5,278
BlackRock Institutional Trust Company, National Association	19-Jul-22	yes	4.30	on mkt buy	AUD	ORD 1,392	1,392
BlackRock Fund Advisors	19-Jul-22	no	n/a	in specie	AUD	ORD 1,380	1,380
BlackRock Institutional Trust Company, National Association	19-Jul-22	yes	4.31	on mkt buy	AUD	ORD 6,005	6,005
BlackRock Investment Management (Australia) Limited	19-Jul-22	yes	4.31	on mkt buy	AUD	ORD 2,127	2,127
BlackRock Investment Management (Australia) Limited	19-Jul-22	yes	4.31	on mkt buy	AUD	ORD 10,479	10,479
BlackRock Institutional Trust Company, National Association	20-Jul-22	yes	4.44	on mkt buy	AUD	ORD 977	977
BlackRock Investment Management (Australia) Limited	20-Jul-22	yes	4.46	on mkt buy	AUD	ORD 3,493	3,493
BlackRock Investment Management (Australia) Limited	20-Jul-22	yes	4.46	on mkt buy	AUD	ORD 12,832	12,832
BlackRock Fund Advisors	21-Jul-22	no	n/a	in specie	AUD	ORD 461	461
BlackRock Institutional Trust Company, National Association	21-Jul-22	yes	4.51	on mkt buy	AUD	ORD 1,739	1,739
BlackRock Investment Management (Australia) Limited	21-Jul-22	yes	4.55	on mkt buy	AUD	ORD 7,485	7,485
BlackRock Asset Management Deutschland AG	21-Jul-22	yes	4.55	on mkt buy	AUD	ORD 5,150	5,150
BlackRock Advisors, LLC	21-Jul-22	yes	4.55	on mkt buy	AUD	ORD 243	243
BlackRock Investment Management (Australia) Limited	21-Jul-22	yes	4.55	on mkt buy	AUD	ORD 3,225	3,225
BlackRock Institutional Trust Company, National Association	22-Jul-22	yes	4.52	on mkt buy	AUD	ORD 998	998
BlackRock Investment Management (Australia) Limited	25-Jul-22	yes	4.35	on mkt buy	AUD	ORD 3,992	3,992
BlackRock Institutional Trust Company, National Association	25-Jul-22	yes	4.37	on mkt buy	AUD	ORD 887	887
BlackRock Advisors (UK) Limited	26-Jul-22	yes	4.38	on mkt buy	AUD	ORD 656	656
BlackRock Asset Management Canada Limited	26-Jul-22	yes	4.38	on mkt buy	AUD	ORD 88,441	88,441

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

Haley Owen,  
Authorised Signatory

28-Jul-22  
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 Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Advisors, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Asset Management Deutschland AG	Max-Joseph-Straße 6 D-80333 Munich, Germany
BlackRock Financial Management, Inc.	251 Little Falls Dr Wilmington, DE 19808-1674
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 Investment Management (Australia) Limited	Level 37 Chifley Tower, 2 Chifley Square, Sydney NSW 2000 Australia
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Japan Co., Ltd.	Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-8217 (Japan)