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## **Form 603**

Corporations Act 2001 Section 671B

## Notice of initial substantial holder

To Company Name/Scheme	APA Group
ACN/ARSN _	091 344 704
1. Details of substantial holder (1)	
Name _	Vanguard Group (The Vanguard Group, Inc. and its controlled entities including those listed in Annexure A)
ACN/ARSN (if applicable)	N/A
The holder became a substantial holder on _	07 December 2021

#### 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)
Ordinary	59,052,823	59,052,823	5.005%

#### 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
Vanguard Group	Vanguard Group is the manager of various Mutual funds	Ordinary - 59,052,823
	and accounts and in that capacity has the power to dispose	
	of the shares. The other members of Vanguard Group have	
	a relevant interest under section 608(3) of the Corporations	
	Act.	

#### 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
Vanguard Group	Brown Brothers Harriman	Various funds and other accounts of Vanguard Group	Ordinary – 3,626,962
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Ordinary – 4,130,331
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Ordinary – 42,083,933
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Ordinary – 9,211,597

#### 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			
See Annexure A						

## 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
N/A	N/A

# 7. Addresses

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

Name	Address
Vanguard Group	P.O. Box 2600, V26 Valley Forge, PA 19482 USA
	, , , , , , , , , , , , , , , , , , , ,

print name	Shawn Acker	capacity	Compliance Manager
	$\sim$ $\rho$		
	HOON TOWN		
sign here	Diatoria Lexen	date	09 December 2021

#### DIRECTIONS

- (1) If there are a number of substantial holders with similar or related 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, moneys and other, that any person from whom a relevant interest has 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 of its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

 To Company
 APA Group

 ACN/ARSN
 091 344 704

Substantial Holder Name Vanguard Group

ACN/ARSN N/A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes
	The Vanguard Group, Inc.	SELL	9.64	Ordinary	(4,438)	(4,438)
9-Aug-21	The Vanguard Group, Inc.	BUY	9.69	Ordinary	6,160	6,160
10-Aug-21	The Vanguard Group, Inc.	BUY	9.75	Ordinary	28,212	28,212
11-Aug-21	The Vanguard Group, Inc.	BUY	9.85	Ordinary	2,142	2,142
11-Aug-21	The Vanguard Group, Inc.	BUY	9.85	Ordinary	1,262	1,262
11-Aug-21	The Vanguard Group, Inc.	BUY	9.85	Ordinary	2,815	2,815
11-Aug-21	The Vanguard Group, Inc.	BUY	9.85	Ordinary	3,392	3,392
13-Aug-21	The Vanguard Group, Inc.	BUY	9.76	Ordinary	6,512	6,512
13-Aug-21	The Vanguard Group, Inc.	BUY	9.76	Ordinary	7,326	7,326
13-Aug-21	The Vanguard Group, Inc.	BUY	9.76	Ordinary	10,175	10,175
13-Aug-21	The Vanguard Group, Inc.	BUY	9.76	Ordinary	4,884	4,884
16-Aug-21	The Vanguard Group, Inc.	BUY	9.89	Ordinary	5,020	5,020
16-Aug-21	The Vanguard Group, Inc.	BUY	9.89	Ordinary	12,550	12,550
17-Aug-21	The Vanguard Group, Inc.	BUY	9.71	Ordinary	6,310	6,310
17-Aug-21	The Vanguard Group, Inc.	BUY	9.73	Ordinary	17,950	17,950
18-Aug-21	The Vanguard Group, Inc.	BUY	9.86	Ordinary	13,431	13,431
18-Aug-21	The Vanguard Group, Inc.	SELL	9.90	Ordinary	(552)	(552)
19-Aug-21	The Vanguard Group, Inc.	BUY	9.88	Ordinary	10,240	10,240
19-Aug-21	The Vanguard Group, Inc.	BUY	9.85	Ordinary	1,674	1,674
20-Aug-21	The Vanguard Group, Inc.	BUY	10.00	Ordinary	6,275	6,275
20-Aug-21	The Vanguard Group, Inc.	BUY	9.97	Ordinary	28,133	28,133
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	2,142	2,142
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	5,020	5,020
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	7,530	7,530
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	4,096	4,096
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	6,144	6,144
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	6,105	6,105
23-Aug-21	The Vanguard Group, Inc.	BUY	10.06	Ordinary	6,105	6,105
25-Aug-21	The Vanguard Group, Inc.	BUY	9.64	Ordinary	4,884	4,884
26-Aug-21	The Vanguard Group, Inc.	BUY	9.54	Ordinary	55,502	55,502
27-Aug-21	The Vanguard Group, Inc.	BUY	9.35	Ordinary	2,142	2,142
27-Aug-21	The Vanguard Group, Inc.	BUY	9.35	Ordinary	3,570	3,570
27-Aug-21	The Vanguard Group, Inc.	BUY	9.35	Ordinary	5,028	5,028
27-Aug-21	The Vanguard Group, Inc.	BUY	9.35	Ordinary	6,105	6,105
27-Aug-21	The Vanguard Group, Inc.	BUY	9.36	Ordinary	28,500	28,500
-	The Vanguard Group, Inc.	BUY	9.37	Ordinary	59,167	59,167
-	The Vanguard Group, Inc.	SELL	9.18	Ordinary	(21,020)	(21,020)
1-Sep-21	The Vanguard Group, Inc.	BUY	9.14	Ordinary	33,101	33,101
	The Vanguard Group, Inc.	BUY	9.11	Ordinary	15,118	15,118
	The Vanguard Group, Inc.	BUY	9.13	Ordinary	1,905	1,905
	The Vanguard Group, Inc.	BUY	9.15	Ordinary	2,234	2,234
	The Vanguard Group, Inc.	BUY	9.15	Ordinary	4,079	4,079
	The Vanguard Group, Inc.	BUY	9.26	Ordinary	561	561
	The Vanguard Group, Inc.	BUY	9.26	Ordinary	15,331	15,331
	The Vanguard Group, Inc.	BUY	9.30	Ordinary	15,310	15,310
	The Vanguard Group, Inc.	BUY	9.07	Ordinary	568	568
	The Vanguard Group, Inc.	SELL	9.13	Ordinary	(6,723)	(6,723)
·	The Vanguard Group, Inc.	BUY		Ordinary	1,905	1,905
	The Vanguard Group, Inc.	SELL		Ordinary	(6,658)	(6,658)
	The Vanguard Group, Inc.	SELL		Ordinary	(292,447)	(292,447)
	The Vanguard Group, Inc.	SELL	9.01	Ordinary	(35,667)	(35,667)
	The Vanguard Group, Inc.	SELL		Ordinary	(16,032)	(16,032)
	The Vanguard Group, Inc.	SELL	9.01	Ordinary	(5,772)	(5,772)
	The Vanguard Group, Inc.	BUY	8.81	Ordinary	6,350	6,350
	The Vanguard Group, Inc.	BUY	8.45	Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY	8.46	Ordinary	1,628	1,628
'	The Vanguard Group, Inc.	BUY	8.55	Ordinary	70,028	70,028
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	8.73	Ordinary	7,932	7,932
•		BUY	8.66	Ordinary	188,529	188,529
	The Vanguard Group, Inc.	BUY	8.73	Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY	8.73	Ordinary	790	790
	The Vanguard Group, Inc.	BUY	8.66	Ordinary	48,036	48,036
•	The Vanguard Group, Inc.	SELL	8.81	Ordinary	(372)	(372)
	The Vanguard Group, Inc.	BUY	8.66	Ordinary	457	457
	The Vanguard Group, Inc.	BUY	8.66	Ordinary	16,962	16,962
	The Vanguard Group, Inc.	BUY	8.53	Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY	8.62	Ordinary	31,870	31,870
3U-Sep-21	The Vanguard Group, Inc.	BUY	8.62	Ordinary	21,984	21,984

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes
<del>-</del>	The Vanguard Group, Inc.	BUY	8.72	Ordinary	64,350	64,350
1-Oct-21	The Vanguard Group, Inc.	BUY	8.69	Ordinary	2,142	2,142
4-Oct-21	The Vanguard Group, Inc.	BUY	8.80	Ordinary	39,828	39,828
	The Vanguard Group, Inc.	BUY	8.75	Ordinary	1,748	1,748
	The Vanguard Group, Inc.	BUY	8.75	Ordinary	18,251	18,251
	The Vanguard Group, Inc.	BUY	8.77	Ordinary	63,579	63,579
	The Vanguard Group, Inc.	BUY	8.80 8.77	Ordinary	1,270 813	1,270 813
	The Vanguard Group, Inc. The Vanguard Group, Inc.	SELL	8.77	Ordinary Ordinary	(38,920)	(38,920)
	The Vanguard Group, Inc.	SELL	8.80	Ordinary	(218)	(218)
	The Vanguard Group, Inc.	BUY	8.78	Ordinary	594	594
	The Vanguard Group, Inc.	SELL	8.81	Ordinary	(15,548)	(15,548)
8-Oct-21	The Vanguard Group, Inc.	BUY	8.78	Ordinary	8,244	8,244
11-Oct-21	The Vanguard Group, Inc.	BUY	8.72	Ordinary	2,856	2,856
11-Oct-21	The Vanguard Group, Inc.	BUY	8.74	Ordinary	825	825
	The Vanguard Group, Inc.	BUY	8.72	Ordinary	36,797	36,797
	The Vanguard Group, Inc.	BUY	8.68	Ordinary	4,503	4,503
	The Vanguard Group, Inc.	BUY	8.69	Ordinary	2,856	2,856
	The Vanguard Group, Inc.	BUY	8.69	Ordinary	5,496	5,496
	The Vanguard Group, Inc.	BUY	8.69	Ordinary	10,992	10,992
	The Vanguard Group, Inc.	BUY	8.69	Ordinary	6,105	6,105
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	8.69 8.46	Ordinary Ordinary	1,270 2,142	1,270 2,142
	The Vanguard Group, Inc.	SELL	8.46	Ordinary	(201)	(201)
	The Vanguard Group, Inc.	BUY	8.60	Ordinary	6,105	6,105
	The Vanguard Group, Inc.	BUY	8.45	Ordinary	1,905	1,905
	The Vanguard Group, Inc.	BUY	8.45	Ordinary	635	635
	The Vanguard Group, Inc.	BUY	8.43	Ordinary	579	579
	The Vanguard Group, Inc.	BUY	8.39	Ordinary	1,270	1,270
20-Oct-21	The Vanguard Group, Inc.	BUY	8.39	Ordinary	1,964	1,964
	The Vanguard Group, Inc.	BUY	8.41	Ordinary	5,080	5,080
22-Oct-21	The Vanguard Group, Inc.	BUY	8.52	Ordinary	1,746	1,746
25-Oct-21	The Vanguard Group, Inc.	BUY	8.57	Ordinary	8,244	8,244
25-Oct-21	The Vanguard Group, Inc.	BUY	8.55	Ordinary	1,006	1,006
	The Vanguard Group, Inc.	BUY	8.32	Ordinary	4,477	4,477
	The Vanguard Group, Inc.	BUY	8.32	Ordinary	8,140	8,140
	The Vanguard Group, Inc.	SELL	8.46	Ordinary	(276)	(276)
	The Vanguard Group, Inc.	BUY	8.39	Ordinary	3,663	3,663
	The Vanguard Group, Inc.	BUY	8.38	Ordinary	580	580
	The Vanguard Group, Inc.	SELL		Ordinary	(5,205)	(5,205)
	The Vanguard Group, Inc.	BUY	8.20	Ordinary	580 8,244	580
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	8.42	Ordinary Ordinary	5,496	8,244 5,496
	The Vanguard Group, Inc.	BUY	8.42	Ordinary	6,105	6,105
	The Vanguard Group, Inc.	BUY	8.75	Ordinary	6,870	6,870
	The Vanguard Group, Inc.	BUY	8.86	Ordinary	36,918	36,918
	The Vanguard Group, Inc.	BUY		Ordinary	6,512	6,512
	The Vanguard Group, Inc.	BUY		Ordinary	30,871	30,871
	The Vanguard Group, Inc.	BUY		Ordinary	8,244	8,244
8-Nov-21	The Vanguard Group, Inc.	BUY		Ordinary	15,114	15,114
	The Vanguard Group, Inc.	BUY	8.71	Ordinary	6,105	6,105
10-Nov-21	The Vanguard Group, Inc.	SELL	8.73	Ordinary	(213)	(213)
	The Vanguard Group, Inc.	BUY		Ordinary	1,905	1,905
	The Vanguard Group, Inc.	BUY		Ordinary	2,688	2,688
	The Vanguard Group, Inc.	BUY		Ordinary	10,992	10,992
	The Vanguard Group, Inc.	BUY	8.91	Ordinary	5,496	5,496
	The Vanguard Group, Inc.	BUY		Ordinary	7,287	7,287
	The Vanguard Group, Inc.	BUY		Ordinary	18,738	18,738
	The Vanguard Group, Inc.	BUY		Ordinary	3,123	3,123
	The Vanguard Group, Inc.	BUY		Ordinary Ordinary	9,369 8,140	9,369 8,140
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY		Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY		Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY		Ordinary	17,676	17,676
	The Vanguard Group, Inc.	BUY	8.88	Ordinary	4,070	4,070
	The Vanguard Group, Inc.	SELL		Ordinary	(485)	(485)
	The Vanguard Group, Inc.	BUY	9.07	Ordinary	30,471	30,471
	The Vanguard Group, Inc.	BUY		Ordinary	562	562
	The Vanguard Group, Inc.	BUY		Ordinary	6,870	6,870
	The Vanguard Group, Inc.	BUY		Ordinary	1,754	1,754
	The Vanguard Group, Inc.	BUY		Ordinary	15,331	15,331
	The Vanguard Group, Inc.	BUY		Ordinary	5,496	5,496
	The Vanguard Group, Inc.	BUY	9.54	Ordinary	1,270	1,270
	The Vanguard Group, Inc.	BUY		Ordinary	1,270	1,270
24-Nov-21	The Vanguard Group, Inc.	BUY	9.53	Ordinary	2,593	2,593

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes
	The Vanguard Group, Inc.	BUY	9.58	Ordinary	9,618	9,618
26-Nov-21	The Vanguard Group, Inc.	BUY	9.64	Ordinary	539	539
	The Vanguard Group, Inc.	BUY	9.73	Ordinary	2,868	2,868
	The Vanguard Group, Inc.	BUY	9.73	Ordinary	8,244	8,244
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	9.49	Ordinary Ordinary	3,078 8,244	3,078 8,244
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	9.49	Ordinary	10,992	10,992
	The Vanguard Group, Inc.	BUY	9.49	Ordinary	13,740	13,740
	The Vanguard Group, Inc.	BUY	9.49	Ordinary	3,123	3,123
	The Vanguard Group, Inc.	BUY	9.49	Ordinary	10,989	10,989
30-Nov-21	The Vanguard Group, Inc.	BUY	9.53	Ordinary	2,289	2,289
30-Nov-21	The Vanguard Group, Inc.	SELL	9.58	Ordinary	(19,664)	(19,664)
	The Vanguard Group, Inc.	BUY	9.26	Ordinary	20,610	20,610
	The Vanguard Group, Inc.	BUY	9.48	Ordinary	36,232	36,232
	The Vanguard Group, Inc.	BUY	9.32	Ordinary	551	551
	The Vanguard Group, Inc.	SELL	9.32	Ordinary	(5,871)	(5,871)
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	9.43	Ordinary Ordinary	753 21,655	753 21,655
	The Vanguard Group, Inc.  The Vanguard Group, Inc.	BUY	9.66	Ordinary	29,860	29,860
	The Vanguard Group, Inc.	BUY	9.81	Ordinary	8,244	8,244
	The Vanguard Group, Inc.	BUY	9.81	Ordinary	8,244	8,244
	The Vanguard Group, Inc.	BUY	9.81	Ordinary	37,291	37,291
	The Vanguard Group, Inc.	BUY	9.75	Ordinary	2,208	2,208
7-Dec-21	The Vanguard Group, Inc.	SELL	9.75	Ordinary	(17,111)	(17,111)
-	Vanguard Investments Australia Ltd.	BUY	9.64	Ordinary	3,730	3,730
-	Vanguard Investments Australia Ltd.	BUY	9.64	Ordinary	8,068	8,068
-	Vanguard Investments Australia Ltd.	BUY	9.64	Ordinary	68,252	68,252
•	Vanguard Investments Australia Ltd.	BUY	9.69	Ordinary	12,468	12,468
	Vanguard Investments Australia Ltd.	BUY	9.73	Ordinary Ordinary	30,457 17,553	30,457 17,553
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	9.73	Ordinary	67,499	67,499
	Vanguard Investments Australia Ltd.	SELL	9.76	Ordinary	(3,716)	(3,716)
	Vanguard Investments Australia Ltd.	BUY	9.88	Ordinary	10,125	10,125
	Vanguard Investments Australia Ltd.	BUY	9.88	Ordinary	20,840	20,840
18-Aug-21	Vanguard Investments Australia Ltd.	BUY	9.90	Ordinary	8,120	8,120
18-Aug-21	Vanguard Investments Australia Ltd.	BUY	9.90	Ordinary	20,780	20,780
•	Vanguard Investments Australia Ltd.	BUY	9.90	Ordinary	8,312	8,312
-	Vanguard Investments Australia Ltd.	BUY	9.90	Ordinary	6,672	6,672
	Vanguard Investments Australia Ltd.	BUY	9.85	Ordinary	13,520	13,520
	Vanguard Investments Australia Ltd.	BUY	9.97	Ordinary	6,093	6,093
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	9.97 10.06	Ordinary Ordinary	5,200 7,888	5,200 7,888
	Vanguard Investments Australia Ltd.	BUY	9.96	Ordinary	6,096	6,096
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(3,578)	(3,578)
	Vanguard Investments Australia Ltd.	BUY	9.66	Ordinary	13,559	13,559
26-Aug-21	Vanguard Investments Australia Ltd.	BUY	9.33	Ordinary	10,440	10,440
30-Aug-21	Vanguard Investments Australia Ltd.	BUY	9.32	Ordinary	10,190	10,190
	Vanguard Investments Australia Ltd.	BUY		Ordinary	14,616	14,616
	Vanguard Investments Australia Ltd.	BUY		Ordinary	8,164	8,164
	Vanguard Investments Australia Ltd.	BUY		Ordinary	16,755	16,755
	Vanguard Investments Australia Ltd.	BUY		Ordinary	16,816	16,816
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY		Ordinary Ordinary	73,941 40,227	73,941 40,227
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY		Ordinary	17,328	17,328
	Vanguard Investments Australia Ltd.	BUY		Ordinary	12,684	12,684
·	Vanguard Investments Australia Ltd.	BUY	9.26	Ordinary	8,252	8,252
	Vanguard Investments Australia Ltd.	BUY		Ordinary	4,128	4,128
	Vanguard Investments Australia Ltd.	BUY		Ordinary	31,604	31,604
9-Sep-21	Vanguard Investments Australia Ltd.	SELL	9.15	Ordinary	(6,306)	(6,306)
	Vanguard Investments Australia Ltd.	BUY		Ordinary	8,256	8,256
	Vanguard Investments Australia Ltd.	BUY		Ordinary	14,840	14,840
·	Vanguard Investments Australia Ltd.	BUY		Ordinary	18,162	18,162
	Vanguard Investments Australia Ltd.	BUY		Ordinary	7,947	7,947
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	SELL BUY	9.07 9.07	Ordinary Ordinary	(3,074) 12,684	(3,074) 12,684
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	9.07	Ordinary	10,320	10,320
	Vanguard Investments Australia Ltd.	SELL	9.01	Ordinary	(1,281)	(1,281)
	Vanguard Investments Australia Ltd.	BUY		Ordinary	11,414	11,414
	Vanguard Investments Australia Ltd.	BUY	8.88	Ordinary	10,310	10,310
	Vanguard Investments Australia Ltd.	BUY		Ordinary	14,014	14,014
	Vanguard Investments Australia Ltd.	BUY		Ordinary	6,186	6,186
21-3ep-21		BUY	0.73	Ordinary	16,983	16,983
23-Sep-21	Vanguard Investments Australia Ltd.		8.73			
23-Sep-21 28-Sep-21	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY BUY		Ordinary	11,916 18,477	11,916 18,477

		Nature of	Consideration given in relation		Number of securities	
Date of change	Ţ.	Change(6)	to change(7)	Class	affected	affected
	Vanguard Investments Australia Ltd.	SELL	8.72	Ordinary	(71,143)	(71,143)
	1 Vanguard Investments Australia Ltd.	BUY	8.67	Ordinary	14,715	14,715
	1 Vanguard Investments Australia Ltd.	BUY	8.67	Ordinary	15,696	15,696
	Vanguard Investments Australia Ltd.	BUY	8.75	Ordinary	4,920	4,920
	1 Vanguard Investments Australia Ltd.	BUY	8.81	Ordinary	11,165	11,165
	Vanguard Investments Australia Ltd.	BUY	8.79	Ordinary	15,664	15,664
	Vanguard Investments Australia Ltd.	BUY	8.68	Ordinary	10,614	10,614
	Vanguard Investments Australia Ltd.	BUY	8.63	Ordinary	12,066	12,066
	Vanguard Investments Australia Ltd.		8.44	Ordinary	12,493	12,493
	Vanguard Investments Australia Ltd.	SELL	8.51	Ordinary	(8,562)	(8,562
	Vanguard Investments Australia Ltd.	SELL	8.51	Ordinary	(17,146)	(17,146
	Vanguard Investments Australia Ltd.	BUY	8.43	Ordinary	7,382	7,382
	Vanguard Investments Australia Ltd.	BUY	8.40	Ordinary	12,298	12,298
	Vanguard Investments Australia Ltd.	BUY	8.52	Ordinary	12,066	12,066
	Vanguard Investments Australia Ltd.	IN SPECIE	8.35	Ordinary	(567,376)	(567,376
	Vanguard Investments Australia Ltd.	BUY	8.35	Ordinary	26,143	26,143
	Vanguard Investments Australia Ltd.	BUY	8.37	Ordinary	91,129	91,129
	Vanguard Investments Australia Ltd.	BUY	8.20	Ordinary	14,085	14,085
	Vanguard Investments Australia Ltd.	BUY	8.20	Ordinary	7,736	7,736
	1 Vanguard Investments Australia Ltd.	BUY	8.41	Ordinary	4,690	4,690
	1 Vanguard Investments Australia Ltd.	SELL	8.68	Ordinary	(57,008)	(57,008
	1 Vanguard Investments Australia Ltd.	BUY	8.72	Ordinary	4,315	4,315
	1 Vanguard Investments Australia Ltd.	BUY	8.72	Ordinary	10,045	10,045
	1 Vanguard Investments Australia Ltd.	BUY	8.74	Ordinary	11,328	11,328
	1 Vanguard Investments Australia Ltd.	BUY	8.74	Ordinary	19,367	19,367
	1 Vanguard Investments Australia Ltd.	IN SPECIE	8.82	Ordinary	(5,538,475)	(5,538,475
	1 Vanguard Investments Australia Ltd.	BUY	8.84	Ordinary	79,050	79,050
	1 Vanguard Investments Australia Ltd.	BUY	8.84	Ordinary	7,941	7,941
	1 Vanguard Investments Australia Ltd.	BUY	8.70	Ordinary	5,117	5,117
	1 Vanguard Investments Australia Ltd.	BUY	8.70	Ordinary	10,307	10,307
	1 Vanguard Investments Australia Ltd.	BUY	8.82	Ordinary	12,102	12,102
	1 Vanguard Investments Australia Ltd.	BUY	8.82	Ordinary	74,224	74,224
	1 Vanguard Investments Australia Ltd.	BUY	8.88	Ordinary	7,966	7,966
17-Nov-2	1 Vanguard Investments Australia Ltd.	BUY	9.09	Ordinary	12,126	12,126
	1 Vanguard Investments Australia Ltd.	BUY	9.09	Ordinary	9,400	9,400
	1 Vanguard Investments Australia Ltd.	BUY	9.15	Ordinary	25,754	25,754
	1 Vanguard Investments Australia Ltd.	BUY	9.15	Ordinary	2,835	2,835
	1 Vanguard Investments Australia Ltd.	BUY	9.14	Ordinary	14,189	14,189
	1 Vanguard Investments Australia Ltd.	BUY	9.43	Ordinary	9,510	9,510
23-Nov-2	1 Vanguard Investments Australia Ltd.	BUY	9.43	Ordinary	3,804	3,804
24-Nov-2	1 Vanguard Investments Australia Ltd.	BUY	9.53	Ordinary	11,436	11,436
25-Nov-2	Vanguard Investments Australia Ltd.	IN SPECIE	9.60	Ordinary	(303,811)	(303,811
25-Nov-2	Vanguard Investments Australia Ltd.	IN SPECIE	9.60	Ordinary	(794,752)	(794,752
	Vanguard Investments Australia Ltd.	BUY	9.60	Ordinary	10,135	10,135
26-Nov-2	Vanguard Investments Australia Ltd.	BUY	9.64	Ordinary	9,580	9,580
30-Nov-2	1 Vanguard Investments Australia Ltd.	BUY	9.53	Ordinary	10,135	10,135
30-Nov-2	Vanguard Investments Australia Ltd.	BUY	9.53	Ordinary	11,604	11,604
30-Nov-2	1 Vanguard Investments Australia Ltd.	SELL	9.53	Ordinary	(7,381)	(7,381
2-Dec-2	Vanguard Investments Australia Ltd.	BUY	9.47	Ordinary	14,430	14,430
6-Dec-2	Vanguard Investments Australia Ltd.	BUY	9.85	Ordinary	10,135	10,135
7-Dec-2	Vanguard Investments Australia Ltd.	BUY	9.75	Ordinary	69,038	69,038
7-Dec-2	Vanguard Investments Australia Ltd.	BUY	9.75	Ordinary	11,760	11,760

This is Annexure A of 4 pages referred to in Form 603, Notice of initial substantial holder.

Signature:	HOGOLA SCHOOL	
Name: Shawn Acker		
Capacity: Compliance Manager		
Date: 09 December 2021		