PROHIBITION OF SALES TO EEA RETAIL INVESTORS – The Notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the European Economic Area ("**EEA**") without an up-to-date PRIIPS KID being in place with the prior written consent of RBC Europe Limited and provided in accordance with the PRIIPS Regulation. For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, "**MiFID II**"); or (ii) a customer within the meaning of Directive (EU) 2016/97, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in Regulation (EU) 2017/1129. If the aforementioned consent of RBC Europe Limited has not been received then no key information document required by Regulation (EU) No 1286/2014 (as amended, the "**PRIIPs Regulation**") for offering or selling the Notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the Notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

PROHIBITION OF SALES TO UK RETAIL INVESTORS – The Notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the United Kingdom ("UK") without an up-to-date UK PRIIPS KID being in place with the prior written consent of RBC Europe Limited and provided in accordance with the PRIIPS Regulation. For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client, as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of domestic law by virtue of the EUWA; (ii) a customer within the meaning of the provisions of the FSMA and any rules or regulations made under the FSMA to implement Directive (EU) 2016/97, where that customer would not qualify as a professional client, as defined in point (8) of Article 2(1) of Regulation (EU) No 600/2014 as it forms part of domestic law by virtue of the EUWA; or (iii) not a qualified investor as defined in Article 2 of the UK Prospectus Regulation. If the aforementioned consent of RBC Europe Limited has not been received then no key information document required by Regulation (EU) No 1286/2014 as it forms part of domestic law by virtue of the EUWA (the "**UK PRIIPs Regulation**") for offering or selling the Notes or otherwise making them available to retail investors in the UK has been prepared and therefore offering or selling the Notes or otherwise making them available to retail investor in the UK may be unlawful under the UK PRIIPs Regulation.

Final Terms dated 3 May 2022



ROYAL BANK OF CANADA (a Canadian chartered bank)

Legal entity identifier (LEI): ES7IP3U3RHIGC71XBU11

Issue of USD 2,275,000 "Memory Phoenix" Index Linked Interest and Index Linked Redemption Notes Linked to EURO STOXX 50 Price EUR due May 2024 under the Programme for the Issuance of Securities Any person making or intending to make an offer of the Notes may only do so in circumstances in which no obligation arises for the Issuer or any Dealer to publish a prospectus pursuant to either of Article 3 of the Prospectus Regulation or section 85 of the FSMA or to supplement a prospectus pursuant to either of Article 23 of the Prospectus Regulation or Article 23 of the UK Prospectus Regulation, in each case, in relation to such offer, and subject as provided in the sections entitled "Prohibition of Sales to EEA Retail Investors" and "Prohibition of Sales to UK Retail Investors" above.

Neither the Issuer nor any Dealer has authorised, nor do they authorise, the making of any offer of Notes in any other circumstances.

PART A – CONTRACTUAL TERMS

Terms used herein shall be deemed to be defined as such for the purposes of the Conditions (the "**Conditions**") set forth in the Structured Securities Base Prospectus dated 30 July 2021 and the supplemental Prospectuses dated 3 September 2021, 22 December 2021 and 2 March 2022 which together constitute a base prospectus for the purposes of the Prospectus Regulation (the "**Base Prospectus**"). This document constitutes the Final Terms of the Notes described herein for the purposes of the Prospectus Regulation and must be read in conjunction with the Base Prospectus in order to obtain all the relevant information. A summary of the Notes is annexed to these Final Terms. The Base Prospectus has been published on the website of Euronext Dublin (<u>www.euronext.com/en/markets/dublin</u>) and the Issuer (www.rbc.com) and copies may be obtained from the offices of the Issuer, Royal Bank Plaza, 200 Bay Street, 8th Floor, South Tower, Toronto, Ontario, Canada and the offices of the Issuing and Paying Agent, One Canada Square, London E14 5AL, England.

For the purposes hereof:

"**UK Prospectus Regulation**" means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the EUWA;

"EUWA" means the European Union (Withdrawal) Act 2018; and

"FSMA" means the Financial Services and Markets Act 2000.

By investing in the Notes each investor represents that:

(a) Non-Reliance. It is acting for its own account, and it has made its own independent decisions to invest in the Notes and as to whether the investment in the Notes is appropriate or proper for it based upon its own judgement and upon advice from such advisers as it has deemed necessary. It is not relying on any communication (written or oral) of the Issuer or any Dealer as investment advice or as a recommendation to invest in the Notes, it being understood that information and explanations related to the Conditions of the Notes shall not be considered to be investment advice or a recommendation to invest in the Notes. No communication (written or oral) received from the Issuer or any Dealer shall be deemed to be an assurance or guarantee as to the expected results of the investment in the Notes.

(b) Assessment and Understanding. It is capable of assessing the merits of and understanding (on its own behalf or through independent professional advice), and understands and accepts the terms and

conditions and the risks of the investment in the Notes. It is also capable of assuming, and assumes, the risks of the investment in the Notes.

(c) Status of Parties. Neither the Issuer nor any Dealer is acting as fiduciary for or adviser to it in respect of the investment in the Notes.

1.	Issuer:		Royal Bank of Canada
	Branch	of Account / Branch:	London Branch
2.	(i) Seri	es Number:	64933
	(ii) Trar	che Number:	1
3.	Specifie	ed Currency or Currencies:	USD
	(Conditi	on 1.12)	
4.	Aggrega	ate Principal Amount:	USD 2,275,000
	(i) Seri	es:	USD 2,275,000
	(ii) Trar	iche:	USD 2,275,000
5.	Issue P	rice:	99.50% of the Aggregate Principal Amount
6.	(a)	Specified Denominations:	USD 2,000 and increments of USD 1,000 in excess thereafter
	(b)	Calculation Amount:	USD 1,000
	(c)	Minimum Trading Size:	USD 1,000
7.	(i)	Issue Date:	3 May 2022
	(ii)	Interest Commencement Date	Issue Date
	(iii)	Trade Date:	4 April 2022
8.	Maturity	v Date:	3 May 2024
9.	Interest	Basis:	Non-Exempt Reference Item Linked Interest Notes
			Index Linked Interest
			Interest Barrier Notes
10.	(a)	Redemption Basis:	Subject to any purchase and cancellation or early redemption, the Notes will be redeemed on the Maturity Date at their Final Redemption Amount specified in item 26 below

			Nen Evennet Defer		Item	Linked
			Non-Exempt Reference Item Linked Redemption Notes			
			Index Linked Redempt	tion		
	(b)	Protection Amount:	Not Applicable			
11.	Change	of Interest Basis:	Not Applicable			
12.		ion/ Call Option/ Trigger Early	Trigger Early Redempt	tion		
	Redemption:	(further particulars spe	cified b	elow)		
13.	Date Bo obtained	oard approval for issuance of Notes d:	Not Applicable			
14.	Bail-inal	ble Securities:	No			
15.	Method	of distribution:	Non-syndicated			
PRO	VISIONS	RELATING TO INTEREST (IF ANY) F	PAYABLE			
16.		ate Note Provisions	Not Applicable			
17.		g Rate Note Provisions ion 4.03)	Not Applicable			
18.	Zero Co	oupon Note Provisions	Not Applicable			
19.	Referer	nce Item Linked Interest Notes	Applicable			
	(i)	Rate of Interest:	Rate of Interest 1			
	(ii)	Monitoring Date(s):	Each Observation Dat	е		
	(iii)	Relevant Monitoring Date(s):	Each Monitoring Date			
	(iv)	Initial Monitoring Date(s):	Not Applicable			
	(v)	Relevant Initial Monitoring Date(s):	Not Applicable			
	(vi)	Range Observation Period:	Not Applicable			
	(vii)	Range Observation Date(s):	Not Applicable			
	(viii)	Range Observation Cut-Off Date:	Not Applicable			
	(ix)	Interest Barrier Level:	Specified Interest Payment Date:	Intere	est Barrie	r Level:
			2 August 2022	999.0	0%	
				100.0		

3 November 2022

100.00%

		3 February 2023	100.00%
		3 May 2023	100.00%
		3 August 2023	100.00%
		3 November 2023	100.00%
		5 February 2024	100.00%
		3 May 2024	55.00%
(x)	Lower Barrier:	Not Applicable	
(xi)	Upper Barrier:	Not Applicable	
(xii)	Floor:	Not Applicable	
(xiii)	Сар:	Not Applicable	
(xiv)	Global Interest Cap Event:	Not Applicable	
(xv)	Global Interest Floor Event:	Not Applicable	
(xvi)	Initial Valuation:	3,951.12	
(xvii)	Relevant Valuation:	Relevant Valuation 1	
(xviii)	Relevant Reference Performance:	Single Underlying Performance	Relevant Reference
(xix)	Reference Interest Rate:	Not Applicable	
	Reference interest Rate.	Not Applicable	
(XX)	Reference Interest Rate Business Day:	Not Applicable	
	Reference Interest Rate Business		
(xx)	Reference Interest Rate Business Day:	Not Applicable	
(xx) (xxi)	Reference Interest Rate Business Day: Memory Feature:	Not Applicable	
(xx) (xxi) (xxii)	Reference Interest Rate Business Day: Memory Feature: P%:	Not Applicable Applicable Not Applicable	
(xx) (xxi) (xxii) (xxiii)	Reference Interest Rate Business Day: Memory Feature: P%: T%:	Not Applicable Applicable Not Applicable Not Applicable	
(xx) (xxi) (xxii) (xxiii) (xxiv)	Reference Interest Rate Business Day: Memory Feature: P%: T%: XXX%:	Not Applicable Applicable Not Applicable Not Applicable 1.85%	
(xx) (xxi) (xxii) (xxiii) (xxiv) (xxv)	Reference Interest Rate Business Day: Memory Feature: P%: T%: XXX%: AAA%:	Not Applicable Applicable Not Applicable 1.85% Not Applicable	
(xx) (xxi) (xxii) (xxiii) (xxiv) (xxv) (xxv) (xxvi)	Reference Interest Rate Business Day: Memory Feature: P%: T%: XXX%: AAA%: BBB%;	Not Applicable Applicable Not Applicable 1.85% Not Applicable Not Applicable	
(xx) (xxi) (xxii) (xxiii) (xxiv) (xxv) (xxv) (xxvi) (xxvii)	Reference Interest Rate Business Day: Memory Feature: P%: T%: XXX%: XXX%: AAA%: BBB%; BonusHigh:	Not Applicable Applicable Not Applicable 1.85% Not Applicable Not Applicable Not Applicable Not Applicable	
(xx) (xxi) (xxii) (xxii) (xxiv) (xxv) (xxv) (xxvi) (xxvii) (xxviii)	Reference Interest Rate Business Day: Memory Feature: P%: T%: T%: XXX%: AAA%: BBB%; BonusHigh: BonusLow:	Not Applicable Applicable Not Applicable 1.85% Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable	

			3 November 2022
			3 February 2023
			3 May 2023
			3 August 2023
			3 November 2023
			5 February 2024
			3 May 2024
	(xxxii)	Business Day Convention:	Following Business Day Convention
	(xxxiii)	Additional Financial Centre(s):	London and New York
	(xxxiv)	Minimum Rate of Interest:	Not Applicable
	(xxxv)	Maximum Rate of Interest:	Not Applicable
	(xxxvi)	Day Count Fraction:	One
	(xxxvii)	Default Rate:	As set out in Condition 4.06
PRO	VISIONS	RELATING TO REDEMPTION	
20.	. Call Option (Condition 5.03)		Not Applicable
21.	Put Opt (Conditi	ion on 5.06)	Not Applicable
22.	-	periods for Early Redemption for n Reasons:	
	(i)	Minimum period:	30 days
	(ii)	Maximum period:	60 days
23.	TLAC D	isqualification Event:	Not Applicable
24.	Notice Illegalit	periods for Redemption for y:	
	(i)	Minimum period:	30 days
	(ii)	Maximum period:	60 days
25.		Early Redemption on 5.09 and Condition 31.02)	Applicable
	(i)	Trigger Early Redemption Event:	Trigger Early Redemption Event 1

(ii)	Trigger Barrier Level:	100%
(iii)	Lower Trigger Barrier:	Applicable
(A)	Equal to or Greater than:	Applicable
(B)	Greater than:	Not Applicable
(iv)	Upper Trigger Barrier:	Not Applicable
(v)	Monitoring Date(s):	Each Observation Date except the first Observation Date
(vi)	Relevant Monitoring Date(s):	Each Monitoring Date
(vii)	Initial Monitoring Date(s):	Not Applicable
(viii)	Relevant Initial Monitoring Date(s):	Not Applicable
(ix)	Initial Valuation:	3,951.12
(x)	Relevant Valuation:	Relevant Valuation 1
(xi)	Relevant Reference Performance:	Single Underlying Relevant Reference Performance
(xii)	Reference Interest Rate:	Not Applicable
(xiii)	Reference Interest Rate Business Day:	Not Applicable
(xiv)	Floor:	Not Applicable
(xv)	First Number of Hours:	Not Applicable
(xvi)	Second Number of Hours;	Not Applicable
(xvii)	Trigger Event Period:	Not Applicable
(xviii)	Trigger FX Currency:	Not Applicable
(xix)	Trigger FX Price Source:	Not Applicable
(xx)	Trigger FX Valuation Time:	Not Applicable
(xxi)	Trigger Early Redemption Date(s):	3 November 2022
		3 February 2023
		3 May 2023

3 November 2023

5 February 2024

3 May 2024

- (xxii) (a) Trigger Early Redemption Amount:
 - (b) Trigger Early Redemption Amount includes amount in respect of Accrued Interest:

Yes: no additional amount in respect of accrued interest to be paid

100.00% per Calculation Amount

26. Final Redemption Amount

See Condition 31.01, as completed by the relevant sections of item 29 below

27. Early Redemption Amount

- (i) Early Redemption Amount(s) payable on redemption for taxation reasons, a TLAC Disqualification Event, illegality or on event of default or other early redemption (including, in the case of Index Linked Notes, following an Index Adjustment Event in accordance with Condition 7, or in the case of Equity Linked Notes, following a Potential Adjustment Event and/or De-listing and/or Merger Event and/or Nationalisation and/or Insolvency and/or Tender Offer in accordance with Condition 8, or in the case of Equity Linked Notes, Index Linked Notes or Fund Linked Notes (involving ETFs), following an Additional Disruption Event (if applicable) (if required):
 - (ii) Early Redemption Amount includes amount in respect of accrued interest:

As per Condition 5.10.

Yes: no additional amount in respect of accrued interest to be paid

PROVISIONS RELATING TO REFERENCE ITEM LINKED NOTES

28. Settlement Method

	(a) Cash	r redemption of the Notes will be by n Settlement or (b) Physical Delivery ash Settlement or Physical Delivery:	Cash Settlement
29.	Additional Payouts Condition Terms – Final Redemption Amount and/or Physical Settlement Event		See this item 29 and Condition 31.01 (and related terms of Condition 32)
	(i)	Capital Barrier Event:	Applicable
			Capital Barrier Event 1
			If a Capital Barrier Event has occurred:
			Final Redemption Amount 1
			If a Capital Barrier Event has not occurred:
			Final Redemption Amount 7
			Final - Initial Level: Applicable
	(ii)	Put Strike Event:	Not Applicable
	(iii)	Mini-Future Short Redemption Notes:	Not Applicable
	(iv)	IndiCap Redemption Notes:	Not Applicable
	(v)	Himalayan Redemption Notes:	Not Applicable
	(vi)	Monitoring Date(s):	The Valuation Date
	(vii)	Relevant Monitoring Date(s):	The Monitoring Date
	(viii)	Initial Monitoring Date(s):	Not Applicable
	(ix)	Relevant Initial Monitoring Date(s):	Not Applicable
	(x)	Capital Barrier Level:	55%
		(A) Equal to or Less than:	Not Applicable
		(B) Less than:	Applicable
	(xi)	Put Strike Level:	Not Applicable
	(xii)	Initial Valuation:	3,951.12
	(xiii)	Relevant Valuation:	Relevant Valuation 1

(xiv)	Relevant Reference Performance:	Single Perform	Underlying ance	Relevant	Reference
(xv)	Floor:	Not App	licable		
(xvi)	F:	Not App	licable		
(xvii)	K:	Not App	licable		
(xviii)	LC:	Not App	licable		
(xix)	LF:	Not App	licable		
(xx)	Сар:	100%			
(xxi)	P%:	Not App	licable		
(xxii)	X%:	Not App	licable		
(xxiii)	Y%:	Not App	licable		
(xxiv)	Ζ%:	100.00%	, 0		
(xxv)	X1%:	Not App	licable		
(xxvi)	X2%:	Not App	licable		
(xxvii)	K1%:	Not App	licable		
(xxviii)	K2%:	Not App	licable		
(xxix)	Physical Settlement Level	Not App	licable		
(xxx)	Preference Share Linked Notes:	Not App	licable		
Multi-Re	eference Item Linked Notes	Not Applicable			
Currenc	cy Linked Note Provisions	Not Applicable			
Commo	dity Linked Note Provisions	Not Applicable			
Index L Indices	inked Note Provisions (Equity only)	Applicat	ble		
()	Vhether the Notes relate to a Basket	Single Ir	ndex		
of Indices or a single Index and the identity of the relevant Index/Indices and details of the relevant Index Sponsor(s) and whether such			Indices: EUR		Price EUR

30.

31.

32.

33.

Index / Indices is a Multi-Exchange Index:

Index Sponsor(s): STOXX Limited

			Multi-Exchange Index: Yes
	(ii)	Averaging Date(s):	Not Applicable
	(iii)	Observation Period(s):	Not Applicable
	(iv)	Observation Date(s):	25 July 2022
			27 October 2022
			27 January 2023
			25 April 2023
			27 July 2023
			27 October 2023
			29 January 2024
			Valuation Date
	(v)	Valuation Date(s):	25 April 2024
	(vi)	Valuation Time:	Condition 7.03 applies
	(vii)	Specified Level:	Closing Level
	(viii)	Additional Disruption Events:	Applicable
			Change in Law
			Hedging Disruption
			Increased Cost of Hedging
	(ix)	Index Substitution:	Not Applicable
	(x)	Exchange(s):	In relation to each component security included in the Index (each a "Component Security"), the principal stock exchange on which such Component Security is principally traded, as determined by the Calculation Agent
	(xi)	Related Exchange(s):	All Exchanges
	(xii)	Initial Level:	3,951.12
	(xiii)	Hedging Entity:	Not Applicable
	(xiv)	Weighting or w:	Not Applicable
	(xv)	Common Disrupted Days:	Not Applicable
34.	Equi	ty Linked Note Provisions	Not Applicable

35.	Fund Linked Note Provisions (ETF)	Not Applicable
36.	Bond Linked Redemption Note Provisions	Not Applicable
37.	Actively Managed Basket Linked Note Provisions	Not Applicable
38.	Non-Exempt Physical Delivery Notes	Not Applicable

GENERAL PROVISIONS APPLICABLE TO THE NOTES

39.	(i)	New Global Note:	No
	(ii)	Form of Notes:	Bearer Notes
			Temporary Global Note exchangeable for a Permanent Global Note which is exchangeable for Definitive Notes in the limited circumstances specified in the Permanent Global Note.
40.		I Centre(s) or other special ns relating to payment dates:	London and New York
41.	Relevant	t Renminbi Settlement Centre	Not Applicable
42.	. Talons for future Coupons to be attached to Definitive Notes: (Condition 1.06)		No
43.	Name ar	nd address of Calculation Agent:	Royal Bank of Canada, London Branch 100 Bishopsgate London, EC2N 4AA
44.	Name ar Agent:	nd address of RMB Rate Calculation	Not Applicable
45.		ccess to the register of creditors (Sw. <i>cen</i>) in respect of Swedish Notes:	Not Applicable
46.	Exchang	le Date:	On or after 40 calendar days following the Issue Date
47.	issued h	regate Principal Amount of the Notes as been translated into U.S. dollars te of U.S.\$1.00 = , producing a sum	Not Applicable
48.	of the Pr	ng law of Notes (if other than the laws ovince of Ontario and the federal laws da applicable therein):	English Law

49. Alternative Currency Payment:

Not Applicable

RESPONSIBILITY

The Issuer accepts responsibility for the information contained in these Final Terms.

Signed on behalf of the Issuer:

By: Nicole Blackwood Vice President, Transaction Management Group Duly authorized

Fabian de Prey By: Global Head of Multi Asset Structuring

Duly authorized

PART B – OTHER INFORMATION

1. LISTING AND ADMISSION TO TRADING

Listing/Admission to trading: Application will be made by the Issuer (or on its behalf) for the Notes to be admitted to trading on the regulated market of Euronext Dublin

2. RATINGS

Ratings:

Not Applicable

3. INTERESTS OF NATURAL AND LEGAL PERSONS INVOLVED IN THE ISSUE

The Issue Price may include a fee or commission payable to a distributor or third party, such fee or commission will be determined by a number of factors including but not limited to Maturity Date of the note, hedging costs and legal fees. Further details in respect of the fee or commission are available upon request.

4. OPERATIONAL INFORMATION

(i)	ISIN:	XS2416612708
(ii)	Common Code:	241661270
(iii)	CFI:	As set out on the website of the Association of National Numbering Agencies (ANNA) or alternatively sourced from the responsible National Numbering Agency that assigned the ISIN
(iv)	FISN:	As set out on the website of the Association of National Numbering Agencies (ANNA) or alternatively sourced from the responsible National Numbering Agency that assigned the ISIN
(v)	Other Identification Number:	Not Applicable
(vi)	Any clearing system(s) other than Euroclear and Clearstream Luxembourg, their addresses and	Not Applicable

the relevant identification number(s):

(vii)	Delivery:	Delivery against payment
(viii)	Name(s) and address(es) of Initial Paying Agents, Registrar and Transfer Agents:	Issuing and Paying Agent:
		The Bank of New York Mellon, London Branch
		One Canada Square
		London
		E14 5AL
		England
(ix)	Name(s) and addresses of additional Paying Agent(s), Registrar and Transfer Agents (if any):	Not Applicable
(x)	Intended to be held in a manner which would allow Eurosystem eligibility:	No. Whilst the designation is specified as "no" at the date of this Pricing Supplement, should the Eurosystem eligibility criteria be amended in the future such that the Notes are capable of meeting them the Notes may then be deposited with one of the ICSDs as common safe-keeper. Note that this does not necessarily mean that the Notes will then be recognised as eligible collateral for Eurosystem monetary policy and intraday credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.
5.	DISTRIBUTION	
(a)	If syndicated, names and addresses of Managers:	Not Applicable
(b)	If non-syndicated, name of Dealer:	RBC Europe Limited 100 Bishopsgate London, EC2N 4AA
(c)	U.S. Selling Restrictions:	Super Reg S; TEFRA D rules apply
(d)	Canadian Sales:	Canadian Sales Not Permitted
(e)	Non-Exempt Offer:	Not Applicable
(f)	Swiss Non-Exempt Offer	Not Applicable

(g) Prohibition of Sales to EEA Retail Applicable, other than with respect to offers of the Notes Investors: for which a PRIIPs KID is being prepared. Prohibition of Sales to UK Retail Applicable, other than with respect to offers of the Notes (h) Investors: for which a UK PRIIPs KID is being prepared. (i) Prohibition of Offer to Private Applicable Clients in Switzerland: The Notes are not Specified Securities for purposes of 6. **HIRE ACT WITHHOLDING**

1986.

7. INDEX DISCLAIMER

INFORMATION RELATING TO EURO STOXX 50 PRICE EUR

STOXX Limited, Deutsche Börse Group and their licensors, research partners or data providers have no relationship to the Royal Bank of Canada, other than the licensing of the EURO STOXX 50 PRICE EUR and the related trademarks for use in connection with the Securities.

Section 871(m) of the U.S. Internal Revenue Code of

STOXX, Deutsche Börse Group and their licensors, research partners or data providers do not: • Sponsor, endorse, sell or promote the Securities.

• Recommend that any person invest in the Securities or any other Securities.

• Have any responsibility or liability for or make any decisions about the timing, amount or pricing of Securities.

• Have any responsibility or liability for the administration, management or marketing of the Securities.

• Consider the needs of the Securities or the owners of the Securities in determining, composing or calculating the EURO STOXX 50 PRICE EUR or have any obligation to do so.

STOXX, Deutsche Börse Group and their licensors, research partners or data providers give no warranty, and exclude any liability (whether in negligence or otherwise), in connection with the Securities or their performance.

STOXX does not assume any contractual relationship with the purchasers of the Securities or any other third parties.

Specifically,

• STOXX, Deutsche Börse Group and their licensors, research partners or data providers do not give any warranty, express or implied, and exclude any liability about:

• The results to be obtained by the Securities, the owner of the Securities or any other person in connection with the use of the EURO STOXX 50 PRICE EUR and the data included in the EURO STOXX 50 PRICE EUR;

• The accuracy, timeliness, and completeness of the EURO STOXX 50 PRICE EUR and its data;

• The merchantability and the fitness for a particular purpose or use of the EURO STOXX 50 PRICE EUR and its data; and

• The performance of the Securities generally.

• STOXX, Deutsche Börse Group and their licensors, research partners or data providers give no warranty and exclude any liability, for any errors, omissions or interruptions in the EURO STOXX 50 PRICE EUR or its data;

• Under no circumstances will STOXX, Deutsche Börse Group or their licensors, research partners or data providers be liable (whether in negligence or otherwise) for any lost profits or indirect, punitive, special or consequential damages or losses, arising as a result of such errors, omissions or interruptions in the EURO STOXX 50 PRICE EUR or its data or generally in relation to the Securities, even in circumstances where STOXX, Deutsche Börse Group or their licensors, research partners or data providers are aware that such loss or damage may occur.

The licensing Agreement between the Royal Bank of Canada and STOXX is solely for their benefit and not for the benefit of the owners of the Securities or any other third parties.

8. EU BENCHMARKS REGULATION

EU Benchmarks Regulation: Article Not Applicable 29(2) statement on benchmarks: