

## National Bank of Canada Legislative Covered Bond Programme Monthly Investor Report

Calculation Date: 31 Aug 2017

This report contains information regarding the National Bank of Canada Legislative Covered Bond Programme's Cover Pool as of the indicated Calculation Date. The composition of the Cover Pool will change as Loans are added and removed from the Cover Pool from time to time and, accordingly, the characteristics and performance of the Loans will vary over time.

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Programme Inf	ormation							
<u>Series</u>	Initial Amount	Translation Rate	C\$ Equivalent	Maturity Date	Extended Due for Payment Date	Coupon Rate	Rate Type	Maturity Type
CBL1	€1,000,000,000	1.4618	\$1,461,800,000	17 Dec 2018	17 Dec 2019	1.250%	Fixed	Soft
CBL2	€1,000,000,000	1.5363	\$1,536,300,000	25 Mar 2021	25 Mar 2022	1.500%	Fixed	Soft
CBL3	€1,000,000,000	1.3869	\$1,386,900,000	26 Jan 2022	26 Jan 2023	0.500%	Fixed	Soft
CBL4	USD\$750,000,000	1.2592	\$944,400,000	20 Apr 2018	20 Apr 2019	1.400%	Fixed	Soft
CBL5	£100,000,000	1.7100	\$171,000,000	27 Sep 2021	27 Sep 2022	3 month £ Libor +0.370%	Floating	Soft
CBL5 (Tranche	2) £70,000,000	1.6400	\$114,800,000	27 Sep 2021	27 Sep 2022	3 month £ Libor +0.370%	Floating	Soft
CBL6	€750,000,000	1.4618	\$1,096,350,000	29 Sep 2023	29 Sep 2024	0.000%	Fixed	Soft
			\$6,711,550,000					

Weighted Average Maturity of Outstanding Covered Bonds (months) 39.20
Weighted Average Remaining Term of Loans in Cover Pool (months) 26.88

Series Ratings	Moody's	<b>DBRS</b>	Fitch Ratings
CBL1	Aaa	AAA	AAA
CBL2	Aaa	AAA	AAA
CBL3	Aaa	AAA	AAA
CBL4	Aaa	AAA	AAA
CBL5	Aaa	AAA	AAA
CBL5 (Tranche 2)	Aaa	AAA	AAA
CBL6	Aaa	AAA	AAA

### Supplementary Information

### **Parties**

Issuer National Bank of Canada (NBC)
Guarantor Family NBC Covered Bond (Legislative)

NBC Covered Bond (Legislative) Guarantor Limited Partnership

Servicer & Cash Manager National Bank of Canada Swap Providers National Bank of Canada

Covered Bond Trustee & Custodian Computershare Trust Company of Canada

Asset Monitor Deloitte LLP

Account Bank & GIC Provider

National Bank of Canada

Standby Account Bank & GIC Provider

Royal Bank of Canada (RBC)

Paying Agent The Bank of New York Mellon (Luxembourg) S.A.



### National Bank of Canada Legislative Covered Bond Programme **Monthly Investor Report**

Calculation Date: 31 Aug 2017

### **National Bank of Canada Ratings**

	Standard & Poor's	Moody's	<u>DBRS</u>	Fitch Ratings
Senior Debt	Α	A1	AA (low)	A+
Short Term	A-1	P-1	R-1 M	F1
Outlook	Stable	Negative	Negative	Stable
Applicable Ratings of Standby Account Bank & GIC Provider (RBC)				
	Moody's	<b>DBRS</b>	Fitch Ratings	
Senior Debt	A1	AA	AA	
Short Term	P-1	R-1 H	F1+	

### **Description of Ratings Triggers**

#### A. Party Replacement

If the rating(s) of the Party falls below the level stipulated below, such party is required to be replaced or in the case of the Swap Provider

(i) transfer credit support and

(ii) replace itself or obtain a guarantee for its obligations.

Role (Current Party)	<u>Moody's</u>	<u>DBRS</u>	Fitch
Account Bank & GIC Provider (NBC)	P-1*	R-1(mid) & A(low)	F1* or A
Standby Account Bank & GIC Provider (RBC)	P-1*	R-1(mid) & A(low)	F1* or A
Cash Manager (NBC)	P-2*	BBB (low))	F2*
Servicer (NBC)	Baa3	BBB (low)	F2*
Interest Rate Swap Provider (NBC)	P-2* or A3	R-2(high)* & BBB(high)	F3* or BBB-
Covered Bond Swap Provider (NBC)	P-2* or A3	R-2(high)* & BBB(high)	F3* or BBB-
Title Holder on Mortgages (NBC)	Baa3	BBB (low)	BBB-

#### B. Specified Rating Related Action

i. The following actions are required if the rating of the Cash Manager (NBC) falls below the stipulated rating:

	Moody's	DBRS	<u>Fitch</u>
(a) Amounts received by the Servicer are to be deposited directly to the GIC Account and not provided to the Cash Manager	P-1*	BBB(low)	F1* or A
(b) Amounts held by the Cash Manager belonging to the Guarantor are to be deposited to the Transaction Account or the GIC account, as applicable, within 5 business days	P-1*	BBB(low)	F1* or A

ii. The following actions are required if the rating of the

Servicer (NBC) falls below the stipulated rating:

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(a) Servicer is required to transfer amounts belonging to the Guaranto to the Cash Manager or the GIC Account, as applicable, within 2 business days	or P-1*	BBB(low)	F1* or A

iii. The following actions are required if the rating of the

Issuer (NBC) falls below the stipulated rating:

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(a) Repayment of the Demand Loan     (b) Establishment of the Reserve Fund     (c) Fund Pre-Maturity Liquidity Required Amount on Hard Bullet Covered Bonds	N/A P-1* P-1*	N/A R-1(mid)* & A(low) 6 months: A(high) 12 months: A(low)	F2* or BBB+ F1* or A F1+*

iv. The following actions are required if the rating of the

Issuer (NBC) falls below the stipulated rating: Moody's **DBRS** Fitch Baa1 BBB(high) BBB+

(a) The Interest Rate Swap and the Covered Bond Swap will become effective except as otherwise provided in the Covered Bond Swaps Agreements

v. Each Swap Provider is required to transfer credit support, replace itself or obtain a guarantee of its obligations if the rating of such Swap Provider falls below the specified rating.

	Moody's	<u>DBRS</u>	<u>Fitch</u>
(a) Interest Rate Swap Provider	P-1* or A2	R-1(mid)* & A(high)	F1* or A
(b) Covered Bond Swap Provider	P-1* or A2 (1)	R-1(mid)* & A(high)	F1* or A

\*Short Term rating

(1) If credit support provider or Guarantor does not have a short-term rating assigned by Moody's, the long term unsecured rating trigger is A1.

## **Events of Default**

Issuer Event of Default No **Guarantor Event of Default** No



A = Lesser of (i) LTV Adjusted True Balance and (ii) Asset Percentage Adjusted True Balance and (iii) Asset Percentage Adjusted True Balance B = Principal Receipts S S Asset Percentage: 91.70% Asset Percentage: 91.70% S Asset Percentage:	Outstanding Covered Bonds	\$6,711,550,000		
(ii) Asset Percentage Adjusted True Balance B = Principal Receipts C = Cash Captial Contributions S 0	Outstanding Covered Dollds	ф <del>0</del> ,711,350,000		
Be Principal Receipts  C = Cash Capital Contributions  S = Reserve Fund Balance  F = Stordingent Collateral Amount  Total: A + B + C + D + E - Y - Z  S = Testing Value of Substitute Assets  B = Reserve Fund Balance  F = Contingent Collateral Amount  Total: A + B + C + D + E - Y - Z  S = Substitute Assets  S = Reserve Fund Balance  F = S = S = S = S = S = S = S = S = S =	A = Lesser of (i) LTV Adjusted True Balance and	\$10,682,779,356	A(i):	\$11,649,704,860
C = Cash Capital Contributions \$0 Maximum Asset Percentage: 93.00% D = Substitute Assets \$0 E = Reserve Fund Balance \$0 Y = Contingent Collateral Amount Z = Negative Carry Factor calculation \$109,609,374 Total: A + B + C + D + E - Y - Z \$10,573,169,983 Asset Coverage Test PASS  White Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds A = LTV Adjusted Loan Present Value \$11,494,715,693 B - Principal Receipts \$0 C = Cash Capital Contributions D = Trading Value of Substitute Assets \$0 C = Cash Capital Contributions S = Reserve Fund Balance \$0 D = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693 Weighted average market rate used for discounting: 3.36%  Amortization Test Required? No	(ii) Asset Percentage Adjusted True Balance		A(ii):	\$10,682,779,356
D = Substitute Assets \$0 E = Reserve Fund Balance \$0 Y < Contingent Collateral Amount Z = Negative Carry Factor calculation \$109,609,374 Total: A + B + C + D + E - Y - Z \$10,573,169,983  Asset Coverage Test PASS  Asset Coverag	B = Principal Receipts	\$0	Asset Percentage:	91.70%
E = Reserve Fund Balance Y = Contingent Collateral Amount Z = Negative Carry Factor calculation Total: A + B + C + D + E - Y - Z \$10,573,169,983  Asset Coverage Test PASS  Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds A = LTV Adjusted Loan Present Value S 11,494,715,693 B = Principal Receipts S 0 C = Cash Capital Contributions D = Trading Value of Substitute Assets E = Reserve Fund Balance F = Trading Value of Substitute Assets E = Reserve Fund Balance F = Trading Value of Swap Collateral Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	C = Cash Capital Contributions	\$0	Maximum Asset Percentage:	93.00%
Y = Contingent Collateral Amount Z = Negative Carry Factor calculation S109,609,374 Total: A + B + C + D + E - Y - Z \$10,573,169,983  Asset Coverage Test PASS  Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds S6,952,885,463  A = LTV Adjusted Loan Present Value S11,494,715,693 S = Principal Receipts S0 C = Cash Capital Contribution D = Trading Value of Substitute Assets S0 D = Trading Value of Substitute Assets S0 E = Reserve Fund Balance S0 F = Trading Value of Swap Collateral Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F S11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	D = Substitute Assets	\$0		
Z = Negative Carry Factor calculation \$109,609,374  Total: A + B + C + D + E - Y - Z  Asset Coverage Test PASS  Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds A = LTV Adjusted Loan Present Value B = Principal Receipts C = Cash Capital Contributions D = Trading Value of Substitute Assets E = Reserve Fund Balance F = Trading Value of Substitute Asset Amount Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required?  No	E = Reserve Fund Balance	\$0		
Asset Coverage Test  PASS  Asset Coverage Test  PASS  Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds  A = LTV Adjusted Loan Present Value  B = Principal Receipts  C = Cash Capital Contributions  D = Trading Value of Substitute Assets  E = Reserve Fund Balance  F = Trading Value of Swap Collateral  Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  Substitute Aggregate Asset Amount Total: Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  No Do any Covered Bonds remain outstanding?  Yes Amortization Test Required?  No	Y = Contingent Collateral Amount			
Asset Coverage Test  Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds  A = LTV Adjusted Loan Present Value  \$11,494,715,693  B = Principal Receipts  C = Cash Capital Contributions  D = Trading Value of Substitute Assets  E = Reserve Fund Balance  \$0  F = Trading Value of Swap Collateral  Present Value Adjusted Aggregate Asset Amount  Total: A + B + C + D + E + F  \$11,494,715,693  Weighted average market rate used for discounting:  3.36%  Amortization Test  Event of Default on the part of the registered issuer?  No Do any Covered Bonds remain outstanding?  Yes Amortization Test Required?  No	Z = Negative Carry Factor calculation			
Note: Due to rounding, numbers presented may not add up precisely to the totals provided.  Valuation Calculation  Trading Value of Covered Bonds \$6,952,685,463  A = LTV Adjusted Loan Present Value \$11,494,715,693 B = Principal Receipts \$0 C = Cash Capital Contributions \$0 D = Trading Value of Substitute Assets \$0 E = Reserve Fund Balance \$0 F = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	Total: A + B + C + D + E - Y- Z	\$10,573,169,983		
Valuation Calculation  Trading Value of Covered Bonds \$6,952,685,463  A = LTV Adjusted Loan Present Value \$11,494,715,693 B = Principal Receipts \$0 C = Cash Capital Contributions \$0 D = Trading Value of Substitute Assets \$0 E = Reserve Fund Balance \$0 F = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	Asset Coverage Test	PASS		
Trading Value of Covered Bonds  A = LTV Adjusted Loan Present Value  \$11,494,715,693  B = Principal Receipts  C = Cash Capital Contributions  D = Trading Value of Substitute Assets  E = Reserve Fund Balance  F = Trading Value of Swap Collateral  Present Value Adjusted Aggregate Asset Amount  Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  23.36%  Amortization Test  Event of Default on the part of the registered issuer?  No Do any Covered Bonds remain outstanding?  Yes  Amortization Test Required?  No	Note: Due to rounding, numbers presented may not add up precisely to the totals pr	ovided.		
Trading Value of Covered Bonds  A = LTV Adjusted Loan Present Value  \$11,494,715,693  B = Principal Receipts  C = Cash Capital Contributions  D = Trading Value of Substitute Assets  E = Reserve Fund Balance  F = Trading Value of Swap Collateral  Present Value Adjusted Aggregate Asset Amount  Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  23.36%  Amortization Test  Event of Default on the part of the registered issuer?  No Do any Covered Bonds remain outstanding?  Yes  Amortization Test Required?  No	Valuation Calculation			
A = LTV Adjusted Loan Present Value \$11,494,715,693 B = Principal Receipts \$0 C = Cash Capital Contributions \$0 D = Trading Value of Substitute Assets \$0 E = Reserve Fund Balance \$0 F = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No				
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C = Cash Capital Contributions \$0 D = Trading Value of Substitute Assets \$0 E = Reserve Fund Balance \$0 F = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	A = LTV Adjusted Loan Present Value	\$11,494,715,693		
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E = Reserve Fund Balance \$0 F = Trading Value of Swap Collateral \$0 Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	C = Cash Capital Contributions	\$0		
F = Trading Value of Swap Collateral \$0  Present Value Adjusted Aggregate Asset Amount  Total: A + B + C + D + E + F \$11,494,715,693  Weighted average market rate used for discounting: 3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes  Amortization Test Required? No	D = Trading Value of Substitute Assets	\$0		
Present Value Adjusted Aggregate Asset Amount Total: A + B + C + D + E + F  Weighted average market rate used for discounting:  3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Amortization Test Required?  No	E = Reserve Fund Balance	\$0		
Total: A + B + C + D + E + F  \$11,494,715,693  Weighted average market rate used for discounting:  3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes  Amortization Test Required? No	F = Trading Value of Swap Collateral	\$0		
Weighted average market rate used for discounting:  3.36%  Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	Present Value Adjusted Aggregate Asset Amount			
Amortization Test  Event of Default on the part of the registered issuer? No Do any Covered Bonds remain outstanding? Yes  Amortization Test Required? No	Total: A + B + C + D + E + F	\$11,494,715,693		
Event of Default on the part of the registered issuer?  No Do any Covered Bonds remain outstanding?  Yes Amortization Test Required?  No	Weighted average market rate used for discounting:	3.36%		
Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	Amortization Test			
Do any Covered Bonds remain outstanding? Yes Amortization Test Required? No	Event of Default on the part of the registered issuer?	No		
Amortization Test Required? No				
Amortization Test N/A				
	Amortization Test	N/A		

## Covered Bonds Outstanding vs OSFI Limit

Guarantee Loan Demand Loan

Total

Total

Covered Bonds Currently Outstanding (CAD Equivalent): Issued under the Legislative Covered Bond Programme

\$6,711,550,000 \$6,711,550,000

\$7,325,327,029

\$4,593,630,759

\$11,918,957,788

OSFI Maximum (CAD Equivalent): \$9,256,339,480

Note: Covered Bonds issued under the Structured Covered Bond Programme do not form part of the Legislative Covered Bond Programme, nor do they benefit from the Covered Bond Legislative Framework.



\$11,890,470,205
\$11,654,015,519
98,827
\$117,923
77,735
75,000
60.40%
53.29%
72.91%
2.73%
26.38 months
53.26 months
26.88 months

Note: Due to rounding, numbers presented in the following distribution tables may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

Cover Pool Delinquency Distribution				
Aging Summary	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
Current and less than 30 days past due	98,647	99.82%	\$11,632,897,224	99.82%
30 to 59 days past due	99	0.10%	\$12,434,982	0.11%
60 to 89 days past due	45	0.05%	\$4,372,654	0.04%
90 or more days past due	36	0.04%	\$4,310,659	0.04%
Total	98,827	100.00%	\$11,654,015,519	100.00%

Cover Pool Provincial Distribution				
<u>Province</u>	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
British Columbia	2,356	2.38%	\$565,195,670	4.85%
Prairies	4,040	4.09%	\$786,016,747	6.74%
Ontario	14,639	14.81%	\$2,843,553,833	24.40%
Quebec	75,854	76.75%	\$7,298,317,794	62.62%
Atlantic	1,938	1.96%	\$160,931,474	1.38%
Other	0	0.00%	\$0	0.00%
Total	98,827	100.00%	\$11,654,015,519	100.00%

Cover Pool Credit Score Distribution				
<u>Credit Score</u>	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
Score Unavailable	1,657	1.68%	\$240,040,593	2.06%
599 and below	1,195	1.21%	\$130,925,864	1.12%
600 - 650	2,648	2.68%	\$335,908,054	2.88%
651 - 700	9,158	9.27%	\$1,178,227,629	10.11%
701 - 750	31,447	31.82%	\$3,949,183,564	33.89%
751 - 800	41,941	42.44%	\$4,722,614,030	40.52%
801 and above	10,781	10.91%	\$1,097,115,784	9.41%
Total	98,827	100.00%	\$11,654,015,519	100.00%

<b>Cover Pool Interest Rate Type Distribution</b>				
Interest Rate Type	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
Fixed	76,974	77.89%	\$8,446,291,809	72.48%
Variable	21,853	22.11%	\$3,207,723,710	27.52%
Total	98,827	100.00%	\$11,654,015,519	100.00%



1,000,000 and above

Total

# National Bank of Canada Legislative Covered Bond Programme Monthly Investor Report Calculation Date: 31 Aug 2017

BANK	BANK Calculation Date: 31 Aug 2017						
Cover Pool Occupancy Type Distribution							
Occupancy Type	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>			
Owner Occupied	85,214	86.23%	\$9,442,267,416	81.02%			
Non-Owner Occupied	13,613	13.77%	\$2,211,748,103	18.98%			
Total	98,827	100.00%	\$11,654,015,519	100.00%			
Mortgage Asset Type Distribution							
Asset Type	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>			
Conventional Mortgage	43,489	44.01%	\$5,828,971,949	50.02%			
Mortgage Segment of All-in-One Product	55,338	55.99%	\$5,825,043,570	49.98%			
Total	98,827	100.00%	\$11,654,015,519	100.00%			
Cover Pool Interest Rate Distribution							
Interest Rate (%)	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>			
Less than 2.000	748	0.76%	\$114,435,323	0.98%			
2.000 - 2.999	82,579	83.56%	\$9,972,194,835	85.57%			
3.000 - 3.999	13,633	13.79%	\$1,374,152,427	11.79%			
4.000 - 4.999	1,081	1.09%	\$112,306,703	0.96%			
5.000 - 5.999	205	0.21%	\$22,629,228	0.19%			
6.000 - 6.999	580	0.59%	\$58,193,819	0.50%			
7.000 - 7.999	1	0.00%	\$103,183	0.00%			
8.000 or Greater	0	0.00%	\$0	0.00%			
Total	98,827	100.00%	\$11,654,015,519	100.00%			
Cover Pool Remaining Balance							
Remaining Principal Balance (\$)	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>			
99,999 and below	54,384	55.03%	\$2,634,730,183	22.61%			
100,000 - 149,999	17,521	17.73%	\$2,159,587,974	18.53%			
150,000 - 199,999	11,398	11.53%	\$1,973,492,612	16.93%			
200,000 - 249,999	6,279	6.35%	\$1,400,931,526	12.02%			
250,000 - 299,999	3,556	3.60%	\$968,138,995	8.31%			
300,000 - 349,999	2,068	2.09%	\$668,468,475	5.74%			
350,000 - 399,999	1,224	1.24%	\$456,784,163	3.92%			
400,000 - 449,999	764	0.77%	\$323,563,028	2.78%			
450,000 - 499,999	465	0.47%	\$219,987,435	1.89%			
500,000 - 549,999	250	0.25%	\$130,756,410	1.12%			
550,000 - 599,999	228	0.23%	\$130,330,404	1.12%			
600,000 - 649,999	128	0.13%	\$79,639,684	0.68%			
650,000 - 699,999	98	0.10%	\$66,138,906	0.57%			
700,000 - 749,999	75	0.08%	\$54,556,231	0.47%			
750,000 - 799,999	58	0.06%	\$44,935,892	0.39%			
800,000 - 849,999	78	0.08%	\$64,097,038	0.55%			
850,000 - 899,999	67	0.07%	\$58,525,959	0.50%			
900,000 - 949,999	51	0.05%	\$47,022,690	0.40%			
950,000 - 999,999	43	0.04%	\$41,833,573	0.36%			

98,827

1.12%

100.00%

\$130,494,341

\$11,654,015,519

0.09%

100.00%



Greater than 80.00

Total

# National Bank of Canada Legislative Covered Bond Programme Monthly Investor Report Calculation Date: 31 Aug 2017

BANK	Calculation Date:	31 Aug 2017		
Cover Pool Months to Maturity Distribut	tion			
Months to Maturity	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
5 or Less	7,172	7.26%	\$782,580,208	6.72%
6 - 11	13,699	13.86%	\$1,443,084,238	12.38%
12 - 23	25,588	25.89%	\$2,929,490,013	25.14%
24 - 35	25,941	26.25%	\$3,175,240,066	27.25%
36 - 47	18,832	19.06%	\$2,419,564,071	20.76%
48 - 59	6,794	6.87%	\$797,394,665	6.84%
60 - 71	699	0.71%	\$92,495,422	0.79%
72 - 83	53	0.05%	\$6,614,738	0.06%
84 or Greater	49	0.05%	\$7,552,098	0.06%
Total	98,827	100.00%	\$11,654,015,519	100.00%
Cover Pool Property Type Distribution				
Property Type	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
Single Family	77,143	78.06%	\$8,782,388,489	75.36%
Condominium	11,569	11.71%	\$1,475,363,594	12.66%
2-4 Family Units	10,115	10.24%	\$1,396,263,436	11.98%
Total	98,827	100.00%	\$11,654,015,519	100.00%
Cover Pool Indexed LTV - Authorized Dis	stribution			
Indexed LTV (%)	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
20.00 and below	2,550	2.58%	\$123,679,435	1.06%
20.01 - 25.00	1,687	1.71%	\$142,923,876	1.23%
25.01 - 30.00	2,445	2.47%	\$247,454,739	2.12%
30.01 - 35.00	3,175	3.21%	\$369,451,775	3.17%
35.01 - 40.00	4,293	4.34%	\$544,478,605	4.67%
40.01 - 45.00	5,367	5.43%	\$731,594,839	6.28%
45.01 - 50.00	6,405	6.48%	\$871,988,901	7.48%
50.01 - 55.00	7,149	7.23%	\$962,714,471	8.26%
55.01 - 60.00	8,071	8.17%	\$982,287,911	8.43%
60.01 - 65.00	10,040	10.16%	\$1,159,525,324	9.95%
65.01 - 70.00	10,917	11.05%	\$1,297,320,716	11.13%
70.01 - 75.00	15,066	15.24%	\$1,800,489,830	15.45%
75.01 - 80.00	18,277	18.49%	\$2,054,438,779	17.63%
Greater than 80.00	3,385	3.43%	\$365,666,318	3.14%
Total	98,827	100.00%	\$11,654,015,519	100.00%
Cover Pool Indexed LTV - Drawn Distrib	ution			
Indexed LTV (%)	Number of Loans	<u>Percentage</u>	Principal Balance	<u>Percentage</u>
20.00 and below	8,407	8.51%	\$459,424,389	3.94%
20.01 - 25.00	4,151	4.20%	\$368,610,893	3.16%
25.01 - 30.00	4,762	4.82%	\$479,382,389	4.11%
30.01 - 35.00	5,325	5.39%	\$577,654,393	4.96%
35.01 - 40.00	6,312	6.39%	\$740,482,499	6.35%
40.01 - 45.00	7,487	7.58%	\$946,477,208	8.12%
45.01 - 50.00	8,260	8.36%	\$1,054,348,318	9.05%
50.01 - 55.00	8,734	8.84%	\$1,098,053,074	9.42%
55.01 - 60.00	8,814	8.92%	\$1,094,258,504	9.39%
60.01 - 65.00	9,862	9.98%	\$1,214,279,771	10.42%
65.01 - 70.00	10,703	10.83%	\$1,399,920,251	12.01%
70.01 - 75.00	10,383	10.51%	\$1,451,933,056	12.46%
75.01 - 80.00	5,214	5.28%	\$700,610,155	6.01%
	•			

98,827

0.42%

100.00%

0.59%

100.00%

\$68,580,618

\$11,654,015,519



Provincial Distribution b	y Indexed LTV - Drawn and Aging Sum	mary
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Current and less than 30 days past due							
Indexed LTV (%)	British Columbia	<u>Prairies</u>	<u>Ontario</u>	Quebec	Atlantic	Other	<u>Total</u>
20.00 and below	\$55,783,729	\$9,667,545	\$209,164,031	\$181,321,840	\$3,391,858	\$0	\$459,329,004
20.01 - 25.00	\$41,215,672	\$9,234,577	\$175,737,543	\$138,969,820	\$3,453,281	\$0	\$368,610,893
25.01 - 30.00	\$42,429,531	\$14,140,738	\$219,096,874	\$197,486,429	\$4,833,177	\$0	\$477,986,749
30.01 - 35.00	\$50,632,181	\$16,883,551	\$254,265,563	\$248,509,414	\$7,084,134	\$0	\$577,374,844
35.01 - 40.00	\$56,180,717	\$22,670,497	\$329,169,778	\$320,067,897	\$10,476,624	\$0	\$738,565,513
40.01 - 45.00	\$66,304,962	\$25,383,090	\$416,459,184	\$423,179,887	\$14,189,937	\$0	\$945,517,061
45.01 - 50.00	\$59,996,426	\$43,347,117	\$407,476,560	\$512,298,605	\$29,437,373	\$0	\$1,052,556,081
50.01 - 55.00	\$64,565,133	\$65,370,518	\$307,741,584	\$616,937,511	\$42,238,994	\$0	\$1,096,853,741
55.01 - 60.00	\$50,618,161	\$65,563,086	\$185,357,128	\$759,726,551	\$31,177,000	\$0	\$1,092,441,926
60.01 - 65.00	\$37,289,014	\$99,568,756	\$121,390,755	\$943,374,760	\$9,984,035	\$0	\$1,211,607,320
65.01 - 70.00	\$24,421,137	\$122,861,523	\$103,912,104	\$1,142,609,668	\$2,984,295	\$0	\$1,396,788,727
70.01 - 75.00	\$14,569,269	\$137,784,511	\$80,474,073	\$1,214,352,364	\$1,147,471	\$0	\$1,448,327,688
75.01 - 80.00	\$816,930	\$108,667,476	\$29,080,638	\$560,571,796	\$86,964	\$0	\$699,223,804
Greater than 80.00	\$0	\$42,945,624	\$344,534	\$24,423,715	\$0	\$0	\$67,713,873
Total	\$564,822,862	\$784,088,611	\$2,839,670,350	\$7,283,830,256	\$160,485,144	\$0	\$11,632,897,224

### 30 to 59 days past due

Indexed LTV (%)	British Columbia	<u>Prairies</u>	<u>Ontario</u>	Quebec	Atlantic	Other	<u>Total</u>
20.00 and below	\$0	\$0	\$13,893	\$61,273	\$0	\$0	\$75,165
20.01 - 25.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25.01 - 30.00	\$0	\$0	\$293,217	\$245,251	\$0	\$0	\$538,468
30.01 - 35.00	\$0	\$64,911	\$0	\$129,743	\$0	\$0	\$194,654
35.01 - 40.00	\$0	\$0	\$1,100,205	\$131,007	\$0	\$0	\$1,231,211
40.01 - 45.00	\$0	\$562,297	\$0	\$254,753	\$0	\$0	\$817,049
45.01 - 50.00	\$179,845	\$0	\$506,652	\$478,771	\$0	\$0	\$1,165,268
50.01 - 55.00	\$0	\$0	\$272,770	\$269,490	\$108,135	\$0	\$650,395
55.01 - 60.00	\$0	\$172,953	\$0	\$703,600	\$113,049	\$0	\$989,603
60.01 - 65.00	\$0	\$183,773	\$0	\$1,230,747	\$0	\$0	\$1,414,520
65.01 - 70.00	\$0	\$0	\$174,550	\$1,758,529	\$0	\$0	\$1,933,079
70.01 - 75.00	\$0	\$0	\$0	\$2,130,696	\$0	\$0	\$2,130,696
75.01 - 80.00	\$0	\$0	\$0	\$1,024,905	\$0	\$0	\$1,024,905
Greater than 80.00	\$0	\$0	\$0	\$269,969	\$0	\$0	\$269,969
Total	\$179,845	\$983,935	\$2,361,286	\$8,688,731	\$221,185	\$0	\$12,434,982



### 60 to 89 days past due

Indexed LTV (%)	British Columbia	<u>Prairies</u>	<u>Ontario</u>	Quebec	Atlantic	<u>Other</u>	<u>Total</u>
20.00 and below	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20.01 - 25.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25.01 - 30.00	\$0	\$0	\$396,751	\$0	\$0	\$0	\$396,751
30.01 - 35.00	\$0	\$0	\$0	\$84,895	\$0	\$0	\$84,895
35.01 - 40.00	\$0	\$0	\$271,541	\$0	\$0	\$0	\$271,541
40.01 - 45.00	\$26,644	\$25,040	\$41,518	\$49,896	\$0	\$0	\$143,098
45.01 - 50.00	\$166,319	\$95,685	\$118,525	\$11,228	\$0	\$0	\$391,757
50.01 - 55.00	\$0	\$0	\$0	\$318,405	\$0	\$0	\$318,405
55.01 - 60.00	\$0	\$0	\$0	\$393,772	\$0	\$0	\$393,772
60.01 - 65.00	\$0	\$0	\$0	\$650,975	\$0	\$0	\$650,975
65.01 - 70.00	\$0	\$0	\$89,254	\$619,921	\$0	\$0	\$709,175
70.01 - 75.00	\$0	\$226,700	\$0	\$448,402	\$0	\$0	\$675,101
75.01 - 80.00	\$0	\$0	\$0	\$337,184	\$0	\$0	\$337,184
Greater than 80.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$192,963	\$347,425	\$917,588	\$2,914,678	\$0	\$0	\$4,372,654

### 90 or more days past due

Indexed LTV (%)	British Columbia	<u>Prairies</u>	<u>Ontario</u>	Quebec	<u>Atlantic</u>	Other	<u>Total</u>
20.00 and below	\$0	\$0	\$0	\$20,220	\$0	\$0	\$20,220
20.01 - 25.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25.01 - 30.00	\$0	\$0	\$0	\$460,421	\$0	\$0	\$460,421
30.01 - 35.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35.01 - 40.00	\$0	\$0	\$90,830	\$310,731	\$12,673	\$0	\$414,235
40.01 - 45.00	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45.01 - 50.00	\$0	\$0	\$96,176	\$139,037	\$0	\$0	\$235,213
50.01 - 55.00	\$0	\$0	\$0	\$137,597	\$92,936	\$0	\$230,534
55.01 - 60.00	\$0	\$0	\$161,132	\$152,536	\$119,536	\$0	\$433,203
60.01 - 65.00	\$0	\$0	\$0	\$606,956	\$0	\$0	\$606,956
65.01 - 70.00	\$0	\$0	\$0	\$489,269	\$0	\$0	\$489,269
70.01 - 75.00	\$0	\$0	\$256,471	\$543,099	\$0	\$0	\$799,570
75.01 - 80.00	\$0	\$0	\$0	\$24,263	\$0	\$0	\$24,263
Greater than 80.00	\$0	\$596,776	\$0	\$0	\$0	\$0	\$596,776
Total	\$0	\$596,776	\$604,609	\$2,884,129	\$225,145	\$0	\$4,310,659

Cover Pool Indexed LTV - Drawn by Credit Bureau Score

Indexed	LTV	(%)

	500 and halann		054 700	704 750	754 000	004	0	Total
	599 and below	<u>600 - 650</u>	<u>651 - 700</u>	<u>701 - 750</u>	<u>751 - 800</u>	801 and above	Score Unavailable	<u>Total</u>
20.00 and below	\$1,270,722	\$4,513,698	\$16,787,949	\$63,697,433	\$276,921,148	\$87,106,605	\$9,126,835	\$459,424,389
20.01 - 25.00	\$1,160,708	\$6,449,791	\$19,503,703	\$78,146,716	\$207,817,529	\$49,325,788	\$6,206,658	\$368,610,893
25.01 - 30.00	\$2,945,790	\$9,092,884	\$28,942,506	\$115,827,584	\$253,229,297	\$55,651,101	\$13,693,228	\$479,382,389
30.01 - 35.00	\$3,093,409	\$10,428,437	\$39,622,071	\$156,073,968	\$293,930,765	\$55,924,552	\$18,581,193	\$577,654,393
35.01 - 40.00	\$5,230,149	\$16,165,896	\$55,616,861	\$207,029,320	\$363,725,327	\$73,499,202	\$19,215,745	\$740,482,499
40.01 - 45.00	\$7,234,576	\$25,407,257	\$85,376,353	\$276,865,628	\$435,709,876	\$91,775,230	\$24,108,287	\$946,477,208
45.01 - 50.00	\$11,573,321	\$28,862,836	\$98,392,226	\$331,070,481	\$463,434,638	\$98,219,479	\$22,795,337	\$1,054,348,318
50.01 - 55.00	\$13,320,942	\$34,271,989	\$103,857,318	\$355,790,415	\$476,353,598	\$93,013,280	\$21,445,531	\$1,098,053,074
55.01 - 60.00	\$12,717,945	\$31,955,190	\$107,687,223	\$363,213,434	\$457,494,313	\$97,623,091	\$23,567,307	\$1,094,258,504
60.01 - 65.00	\$20,195,187	\$38,041,202	\$131,360,481	\$464,212,317	\$434,409,099	\$102,678,917	\$23,382,568	\$1,214,279,771
65.01 - 70.00	\$22,395,236	\$48,168,234	\$159,138,732	\$563,558,873	\$468,396,663	\$118,316,121	\$19,946,392	\$1,399,920,251
70.01 - 75.00	\$21,986,042	\$48,658,373	\$194,667,819	\$637,357,616	\$407,889,765	\$115,428,894	\$25,944,547	\$1,451,933,056
75.01 - 80.00	\$7,330,757	\$29,528,173	\$124,776,458	\$310,026,332	\$165,015,236	\$53,413,729	\$10,519,470	\$700,610,155
Greater than 80.00	\$471,081	\$4,364,094	\$12,497,932	\$26,313,449	\$18,286,775	\$5,139,796	\$1,507,492	\$68,580,618
Total	\$130,925,864	\$335,908,054	\$1,178,227,629	\$3,949,183,564	\$4,722,614,030	\$1,097,115,784	\$240,040,593	\$11,654,015,519



## National Bank of Canada Legislative Covered Bond Programme Monthly Investor Report

Calculation Date: 31 Aug 2017

#### Indexation Methodology

As of the date of this Investor Report, the Guarantor uses the methodology described below (which methodology is, as of the date hereof, the "Indexation Methodology"), to establish the market value of residential properties securing loans included in the Covered Bond Portfolio on a quarterly basis for purposes of the Asset Coverage Test, the Amortization Test, the Valuation Calculation and for other purposes as may be required by the CMHC Guide from time to time. Changes to the Indexation Methodology may only be made (i) upon notice to CMHC and satisfaction of any other conditions specified by CMHC in relation thereto, (ii) if such change constitutes a material change, subject to satisfaction of the Rating Agency Condition, and (iii) if such change is materially prejudicial to the Covered Bondholders, subject to the consent of the Bond Trustee. The Indexation Methodology must at all times comply with the requirements of the CMHC Guide.

The primary index used by the Guarantor to determine the market value of a Property is the Teranet-National Bank Regional and Property Type Sub-IndicesTM (the "RPT Sub-Indices"). The RPT Sub-Indices are estimated by tracking the observed or registered home prices over time based on property records of public land registries and grouped based on the first three digits of the Property's postal code. A Property must have been sold at least twice in order to be included in the calculation of the RPT Sub-Indices. In areas where sufficient data is available, the RPT Sub-Indices may be further subdivided by property type (all types, single-family homes and condominiums), which offers another layer of valuation granularity without compromising the statistical estimation error terms. To the extent necessary, the Teranet-National Bank House Price IndexTM — Composite 11 Index (the "HPI — Composite 11") will be used for indexation purposes where the RPT Sub-Indices are not available. The HPI — Composite 11 combines the metropolitan areas of Victoria, Vancouver, Calgary, Edmonton, Winnipeg, Hamilton, Toronto, Ottawa, Montréal, Québec and Halifax to form a national composite index. At this time, New Brunswick and Saskatchewan are the only areas relevant to the Covered Bond Portfolio for which the RPT Sub-Indices are not available. For regions where the RPT Sub-Indices are not subdivided by property type, the Guarantor will use the all types sub-index. The RPT Sub-Indices and the HPI — Composite 11 are available by subscription at www.housepriceindex.ca. This website and its contents do not form part of this Investor Report.

For each Property in the Covered Bond Portfolio, the indexed valuation for a quarter will be determined by multiplying the Original Market Value (as defined in the CMHC Guide) for such Property by the percentage change since the valuation date in the price level for the sub-index in which such Property is located and, if available, also based on the property type.

Material risks associated with using the Indexation Methodology include, but are not limited to, the following: the accuracy, adequacy, timeliness and completeness of the indices being relied upon; the consistency in underlying methodology of such indices; the continued availability of the home sale price data provided to Teranet; in the case of Properties outside of the regions covered by the RPT Sub-Indices, the risk that the HPI – Composite 11 may not accurately capture unique factors affecting local housing markets; and in the case of Properties located within the regions where the RPT Sub-Indices are not subdivided by property type, the risk that the all-types sub-index may not account for differences in property value changes based on property type.

National Bank of Canada (in its capacity as a licensor of the Index (as defined below), the "NBC Licensor") has, jointly with Teranet Inc. ("Teranet" and collectively with the NBC Licensor and their third party licensors the "Licensors"), developed a methodology and algorithm to create a residential house price index. The National Bank of Canada Legislative Covered Bond Programme (the "Programme") is not endorsed, sold or promoted by the Licensors. None of the Licensors make any representation or warranty, express or implied, to the parties to the Programme or any member of the public regarding the advisability or recommendation of investing in the Programme particularly or concerning the results to be obtained from the Teranet-National Bank House Price IndexTM and the Teranet-National Bank Regional and Property Type Sub-IndicesTM (the "Index") and its ability to track the performance of the residential real estate and housing markets or concerning the extent to which the capital value or income return of the Programme matches or will match the performance of the Index or the levels at which Index may stand at a particular date. The Licensors' only relationship to National Bank of Canada as licensee (in such capacity, "NBC") is the licensing of certain trademarks and trade names of the Licensors without regards to NBC or the Programme. The Licensors have no obligation to take the needs of NBC or the parties to the Programme into consideration in determining, composing or calculating the Index. None of the Licensors is responsible for and none has participated in determining the pricing, quantities or timing of the execution of the Programme by the parties thereto or the assessment or method of settlement calculation therefor. The Licensors have no obligation or liability in connection with the administration, marketing or trading of the Programme.

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