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Undertaking #21

MPI to advise as to the basis of the new money yield rate of 2.17 percent provided in MPI 43.

RESPONSE:

The marketable bond yield of 2.17% for the 2022, 2023, 2024 calendar years is the annual weighted average yield of the Provincial and Corporate bonds held by MPI. For-example, MPI forecasted the 2022 calendar year Provincial bonds to represent 69.1% of marketable bonds with a yield of 1.85%. MPI forecasted Corporate bonds to represent 30.9% of marketable bonds with a yield of 2.89%. The figure below shows the calculation of the 2.17% marketable bond yield:

Figure 1 Marketable Bond Yield

Line				
No.	2022 Forecast	Weight (W)	Yield (Y)	WxY
1	Provincial Bonds	69.1%	1.85%	1.28%
2	Corporate Bonds	30.9%	2.89%	0.89%
3	Total	100.0%		2.17%

The 2.34% new money yield includes MUSH bonds in addition to provincial and corporate bonds. The marketable bond yield (2.17%) includes only provincial and corporate bonds. The omission of the MUSH bonds is the reason for the discrepancy between 2.17% and 2.34%.

After review, an error was discovered with the forecasted marketable bond yields. In addition, an error was also discovered with the MUSH bond yields. Please see INV-3 restated in *figure 1*, below.

October 22, 2021

BLACKLINE

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Figure 1 – Interest Rate Forecast (Figure INV-3)

Line No.	Calendar Year/ <i>Quarter</i>	Fiscal Year/ Quarter	91-Day T.Bill Rate 2022 Budget	GoC 10 Yr Rate 2022 Budget	Mrk. Bond Yield 2022 Budget	MUSH Yield 2022 Budget	Claims Discount Rate 2022 Budget	91-Day T.Bill Rate 2022 GRA	GoC 10 Yr Rate 2022 GRA	Mrk. Bond Yield 2022 GRA	MUSH Yield 2022 GRA	Claims Discount Rate 2022 GRA	91-Day T.Bill Rate Difference	GoC 10 Yr Rate Difference	Mrk. Bond Yield Difference	MUSH Yield Difference	Claims Discount Rate Difference
1	21:01	2021/22 Q1	0.17%	1.22%	2.16%	4.37%	2.60%	0.09%	1.56%	2.49%	4.37%	2.89%	0.08%	-0.34%	-0.33%	0.00%	-0.29%
2	21:02	2021/22 Q2	0.17%	1.22%	2.39%	4.34%	2.76%	0.09%	1.56%	2.49%	4.36%	2.85%	0.08%	-0.34%	-0.10%	-0.02%	-0.09%
3	21:03	2021/22 Q3	0.17%	1.22%	2.36%	4.30%	2.73%	0.09%	1.56%	2.49%	4.35%	2.84%	0.08%	-0.34%	-0.13%	-0.05%	-0.11%
4	21:04	2021/22 Q4	0.17%	1.22%	2.36%	4.26%	2.72%	0.09%	1.56%	2.49%	4.33%	2.83%	0.08%	-0.34%	-0.13%	-0.07%	-0.11%
5	22:01	2022/23 Q1	0.17%	1.22%	2.33%	4.23%	2.69%	0.09%	1.56%	2.46%	4.32%	2.81%	0.08%	-0.34%	-0.13%	-0.10%	-0.12%
6	22:02	2022/23 Q2	0.17%	1.22%	2.34%	4.19%	2.68%	0.09%	1.56%	2.46%	4.31%	2.80%	0.08%	-0.34%	-0.12%	-0.12%	-0.12%
7	22:03	2022/23 Q3	0.17%	1.22%	2.34%	4.16%	2.66%	0.09%	1.56%	2.46%	4.30%	2.79%	0.08%	-0.34%	-0.12%	-0.14%	-0.12%
8	22:04	2022/23 Q4	0.17%	1.22%	2.33%	4.12%	2.65%	0.09%	1.56%	2.46%	4.28%	2.78%	0.08%	-0.34%	-0.13%	-0.16%	-0.12%
9	23:01	2023/24 Q1	0.17%	1.22%	2.32%	4.09%	2.63%	0.09%	1.56%	2.46%	4.27%	2.76%	0.08%	-0.34%	-0.14%	-0.18%	-0.13%
10	23:02	2023/24 Q2	0.17%	1.22%	2.32%	4.06%	2.62%	0.09%	1.56%	2.46%	4.26%	2.75%	0.08%	-0.34%	-0.14%	-0.20%	-0.13%
11	23:03	2023/24 Q3	0.17%	1.22%	2.32%	4.02%	2.61%	0.09%	1.56%	2.46%	4.24%	2.74%	0.08%	-0.34%	-0.14%	-0.22%	-0.13%
12	23:04	2023/24 Q4	0.17%	1.22%	2.32%	3.99%	2.59%	0.09%	1.56%	2.46%	4.23%	2.73%	0.08%	-0.34%	-0.14%	-0.24%	-0.13%
13	24:01	2024/25 Q1	0.17%	1.22%	2.31%	3.96%	2.58%	0.09%	1.56%	2.46%	4.22%	2.72%	0.08%	-0.34%	-0.15%	-0.26%	-0.14%
14	24:02	2024/25 Q2	0.17%	1.22%	2.31%	3.93%	2.57%	0.09%	1.56%	2.46%	4.20%	2.71%	0.08%	-0.34%	-0.15%	-0.27%	-0.14%
15	24:03	2024/25 Q3	0.17%	1.22%	2.31%	3.90%	2.56%	0.09%	1.56%	2.46%	4.19%	2.70%	0.08%	-0.34%	-0.15%	-0.29%	-0.14%
16	24:04	2024/25 Q4	0.17%	1.22%	2.31%	3.87%	2.55%	0.09%	1.56%	2.46%	4.17%	2.69%	0.08%	-0.34%	-0.15%	-0.31%	-0.15%

17 * 2022 Budget is based on the August 2021 Naïve Interest Rate Forecast

18 **2022 GRA is based on the March 2021 Naïve Interest Rate Forecast

Undertaking #21

MPI to advise as to the basis of the new money yield rate of 2.17 percent provided in MPI 43.

RESPONSE:

After review, an error was discovered with the forecasted marketable bond yields. In addition, an error was also discovered with the MUSH bond yields. Please see INV-3 restated in *figure 1*, below.

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