

Report Prepared On: 04/29/13

Structured Product Details

Name	Buffered Bullish Notes linked to S&P 500 Index
Issue Size	\$535,000
Issue Price	\$1,000
Term	24 Months
Annualized Coupon	0.00%
Pricing Date	January 28, 2013
Issue Date	January 31, 2013
Valuation Date	January 27, 2015
Maturity Date	January 30, 2015
Issuer	Bank of Montreal
CDS Rate	124.69 bps
Swap Rate	0.44%
Reference Asset	the S&P 500 Index
Initial Level	1,500.18
Dividend Rate	2.12%
Implied Volatility Delta¹	17.51% 0.37

Fair Price at Issue \$980.33

CUSIP 06366RKY0
SEC Link www.sec.gov/Archives/edgar/data/927971/000121465913000433/a129136424b2.htm

Related Research

Research Papers:
www.slcg.com/research.php

- "Are Structured Products Suitable for Retail Investors?" December 2006.
- "Structured Products in the Aftermath of Lehman Brothers," November 2009.
- "What TiVo and JP Morgan Teach Us about Reverse Convertibles," June 2010.

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Buffered Bullish Notes linked to S&P 500 Index

Description

Bank of Montreal issued \$535,000 of Buffered Bullish Notes linked to S&P 500 Index on January 31, 2013 at \$1,000 per note.

These notes are Bank of Montreal-branded Buffered PLUS securities that do not pay periodic coupons, but instead pay a single amount at maturity depending on the final level of the S&P 500 Index.

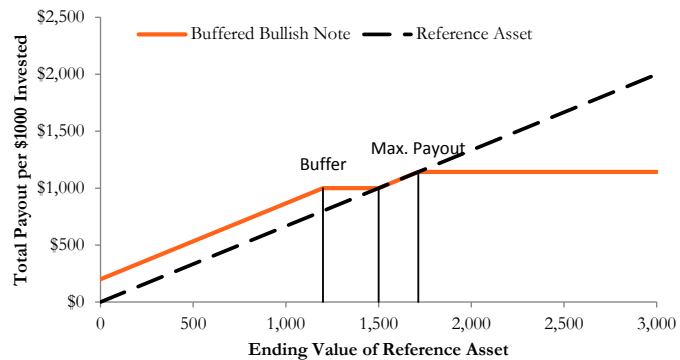
If on January 27, 2015 the S&P 500 Index level is higher than 1,500.18, but lower than 1,713.96, the notes pay a return equal to the percentage increase in the S&P 500 Index, up to a cap of 14.25%. If on January 27, 2015 the refe is below 1,500.18 but not below 1200.14, investors receive \$1,000 face value per note. If the S&P 500 Index level on January 27, 2015 is lower than 1200.14, investors receive face value per note reduced by the amount the reference asset is below 1200.14 as a percent of the initial level, 1,500.18.

Valuation

This product can be valued as a combination of a note from Bank of Montreal, one short out-of-the-money put option, one long at-the-money call option, and one short out-of-the-money call option. For reasonable valuation inputs this note was worth \$980.33 when it was issued on January 31, 2013 because the value of the options investors gave Bank of Montreal plus the interest investors would have received on Bank of Montreal's straight debt was worth \$19.67 more than the options investors received from Bank of Montreal.

There is no active secondary market for most structured products. Structured products, including this note, therefore are much less liquid than simple stocks, bonds, notes and mutual funds. Investors are likely to receive less than the structured product's estimated market value if they try to sell the structured product prior to maturity. Our valuations do not incorporate this relative lack of liquidity and therefore should be considered an upper bound on the value of the structured product.

Payoff Curve at Maturity

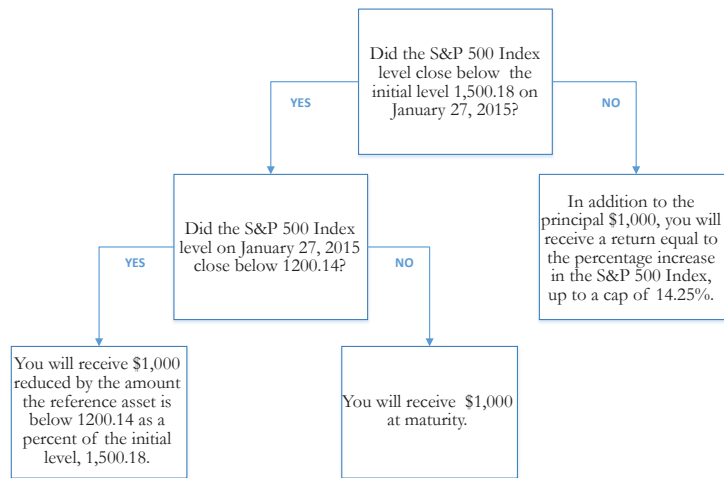


The payoff diagram shows the final payoff of this note given the S&P 500 Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the S&P 500 Index directly.

Principal Payback Table

The S&P 500 Index	Note Payoff
0.00	\$200.00
150.02	\$300.00
300.04	\$400.00
450.05	\$500.00
600.07	\$600.00
750.09	\$700.00
900.11	\$800.00
1,050.13	\$900.00
1,200.14	\$1,000.00
1,350.16	\$1,000.00
1,500.18	\$1,000.00
1,650.20	\$1,100.00
1,800.22	\$1,142.50
1,950.23	\$1,142.50
2,100.25	\$1,142.50
2,250.27	\$1,142.50

Maturity Payoff Diagram

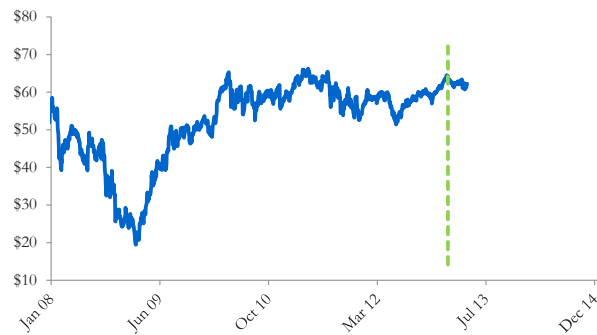


The contingent payoffs of this Buffered Bullish Note.

Analysis

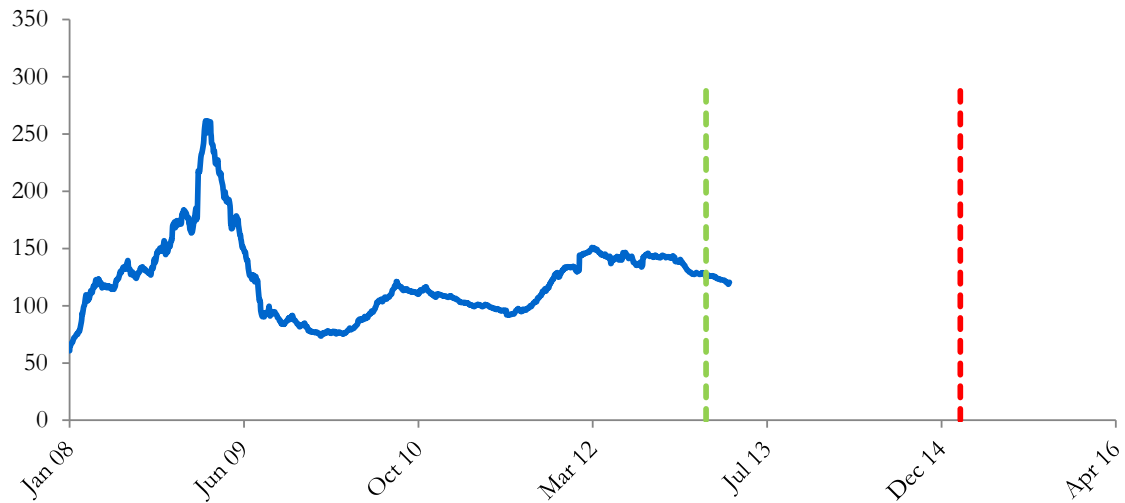
This Buffered Bullish Note pays investors the increase in the S&P 500 Index capped at 14.25%, but if the S&P 500 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the S&P 500 Index. In addition, investors bear the credit risk of Bank of Montreal. Investors purchasing this Buffered Bullish Note effectively sell at-the-money put and out-of-the-money call options to Bank of Montreal, buy at-the-money call options, and a zero-coupon note from Bank of Montreal. This Buffered Bullish Note is fairly priced if and only if the market value of the options investors received from Bank of Montreal equals the market value of the options investors gave Bank of Montreal plus the interest investors would have received on Bank of Montreal's straight debt.

Bank of Montreal's Stock Price



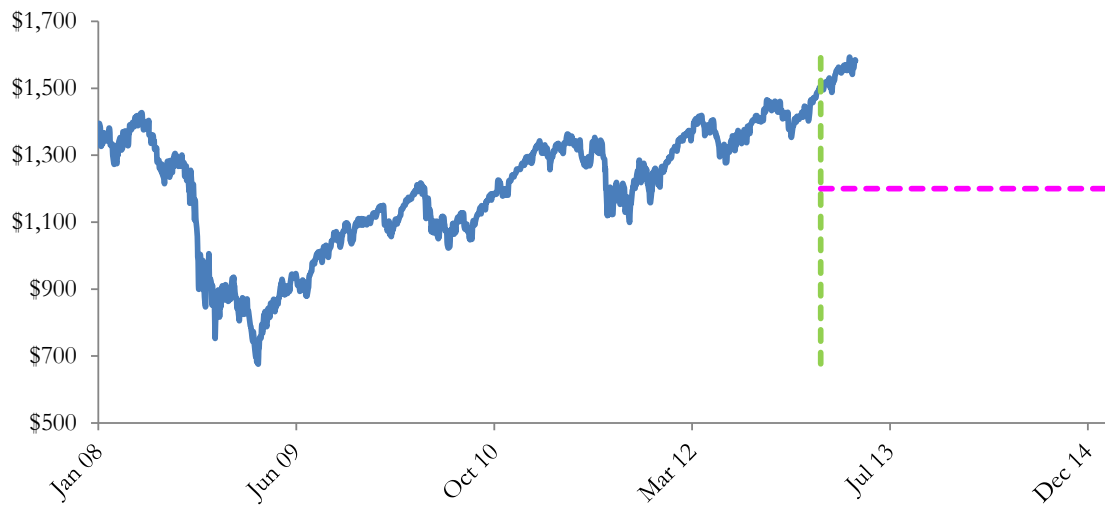
The graph above shows the adjusted closing price of the issuer Bank of Montreal for the past several years. The stock price of the issuer is an indication of the financial strength of Bank of Montreal. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

Bank of Montreal's CDS Rate



Credit default swap (CDS) rates are the market price that investors require to bear credit risk of an issuer such as Bank of Montreal. CDS rates are usually given in basis points (bps). One basis point equals 0.01%. Higher CDS rates reflect higher perceived credit risk, higher required yields, and therefore lower market value of Bank of Montreal's debt, including outstanding Buffered Bullish Note. Fluctuations in Bank of Montreal's CDS rate impact the market value of the notes in the secondary market.

The S&P 500 Index Level

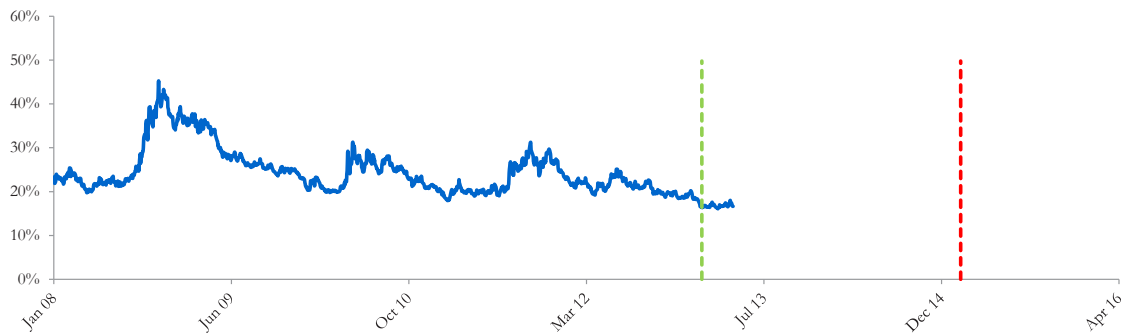


The graph above shows the historical levels of the S&P 500 Index for the past several years. The final payoff of this note is determined by the S&P 500 Index level at maturity. Higher fluctuations in the S&P 500 Index level correspond to a greater uncertainty in the final payout of this Buffered Bullish Note.

Realized Payoff

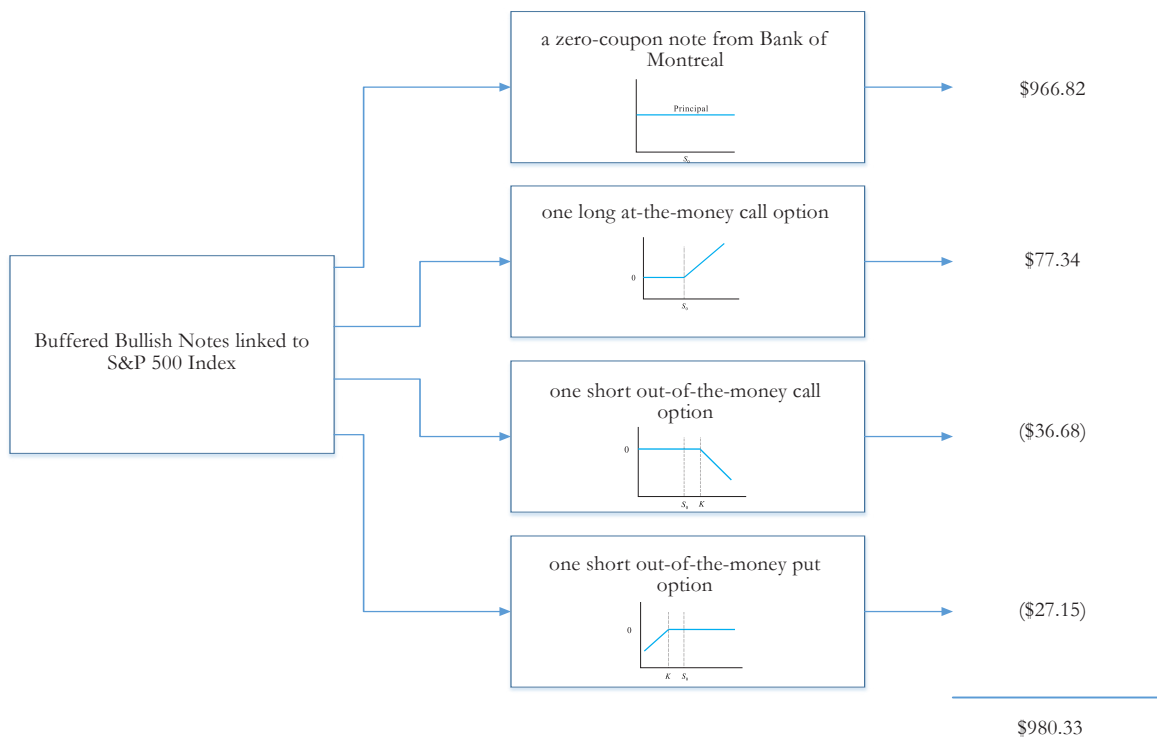
This product will mature on January 30, 2015.

Reference Asset The S&P 500 Index's Implied Volatility



The annualized implied volatility of the S&P 500 Index on January 28, 2013 was 17.51%, meaning that options contracts on the S&P 500 Index were trading at prices that reflect an expected annual volatility of 17.51%. The higher the implied volatility, the larger the expected fluctuations of the S&P 500 Index level and of the Note's market value during the life of the Notes.

Decomposition of this Buffered Bullish Note



This note can be decomposed into different components, and each component can be valued separately. The chart above shows the value of each component of this Buffered Bullish Note.

1. Delta measures the sensitivity of the price of the note to the the S&P 500 Index level on January 28, 2013.
2. CDS rates can be considered a measure of the probability that an issuer will default over a certain period of time and the likely loss given a default. The lower the CDS rate, the lower the default probability. CDS rate is given in basis points (1 basis point equals 0.01%), and is considered as a market premium, on top of the risk-free rate, that investors require to insure against a potential default.
3. Fair price evaluation is based on the Black-Scholes model of the the S&P 500 Index on January 28, 2013.
4. Calculated payout at maturity is only an approximation, and may differ from actual payouts at maturity.
5. Our evaluation does not include any transaction fees, broker commissions, or liquidity discounts on the notes.