

Potash Investment

1. Introduction

The world-class Russell-McAuley potash deposit is located in southwestern Manitoba along the border with Saskatchewan (Figure 1). Its development as a conventional potash mine has long been promoted but, until recently, the potash lands were divided among a number of companies. The whole of the potash resource in Manitoba is now available for development, presenting the opportunity for a single operator to assess the technical and economic potential of the entire deposit. Historically, the McAuley deposit had been referred to as the St. Lazare deposit.

In 2013, the Government of Manitoba acquired 100% of Manitoba Potash Corporation (MPC). Combined, the Government of Manitoba and MPC own or control approximately 69,520 acres (28,142 ha) of undeveloped potentially mineable high grade potash deposits on the Russell-McAuley property (the "Property"; Figure 2). The Northern block of the Property comprises the area that was assessed most recently by BHP Billiton Canada Inc. (BHP Billiton) while the Southern block was held under a potash exploration permit by Agrium Inc. (Agrium).



Figure 1: Geological map showing the eastern edge of the Prairie Evaporite salt dissolution front (red), and the eastern edge of the known potash area (yellow), drillholes that penetrate the Prairie Evaporite, and location of nearby potash mines in southeastern Saskatchewan.



Figure 2: Manitoba Potash Corporation (MPC) property location and assets

2. Exploration History

The discovery of potash in Manitoba was in an oil well drilled in 1951 at 15-18-10-27W1. This discovery lead to exploration programs by Sylvite of Canada and its predecessor companies, S.A.M. Explorations and Tombill Mines, resulting in a total of 10 holes drilled during several exploration programs between 1956 and 1966.

The most extensive exploration campaign was conducted by Prairie Potash which drilled 15 holes between August 1964 and March 1966. Amax and Canamax focused exclusively on the area around the town of Russell, where eight holes were drilled between 1980 and 1986. No drilling has been conducted on the Property since 1986.

On the MPC Property, there is an exploration database for 40 holes that penetrate the Prairie Evaporite Formation, with additional data available for a number of other holes, both within and outside the Property. There is also 2-D and 3-D seismic data available for certain areas in and around the Property.

3. Potash Resource

Previously, the Russell-McAuley deposit was divided into two blocks. Formal mineral resource estimates have been prepared for the Northern (or Russell) block, most recently in 2009. A historical resource estimate for the Southern (or McAuley) block was prepared in 1983. **Table 1** summarizes the estimated resources for both the Northern and Southern blocks. The estimated resources have not been combined since they were conducted at different periods using different parameters. This property has a robust resource potential for a long term, minimum 20 year, secure supply, at a rate of 2 Mt/y KCl, or higher.

It is estimated that the project to develop a potash mine may take approximately 11 years, starting with estimation of a mineral resource for the entire Property or selected portions, and project definition prior to commencing feasibility study work (**Table 2**).

southwestern Manitoba.

Area

Russell (North Block)¹

McAuley (South Block)²

- ²Bannatyne (1983), 16% cut off grade

Table 2: Potential project development timeline.

Work Phase	Years												
	1	2	3	4	5	6	7	8	9	10	11	12	
Mineral resource estimation													
Project definition													
Prefeasibility study													
Feasibility study													
Environmental assessment and licencing													
Construction to first ore output													
Ramp-up to full production													

4. Mineral Rights

- approximately 9,600 acres (3,886 ha).

- this transaction.

Potash Potential of Manitoba

Manitoba Mineral Resources, Winnipeg, MB, Canada

Table 1: Mineral resource estimates for the Russell and McAuley areas in

Million tonnes ³	Average grade (% K₂O)				
392	22.5				
650	20.9				

¹BHP Billiton reports from ADM Consulting Ltd. and AMEC Americas Ltd. (2009)

Neither of the resource estimates has been reported using the definition standards of the Canadian Institute of Mining, Metallurgy and Petroleum and, therefore, do not meet the reporting requirements of Canadian National Instrument 43-101.

The MPC assets include the following mineral rights:

MPC Fee Simple Potash Rights – MPC owns potash rights covering

• Freehold Potash Rights under Lease – MPC is the lessor of freehold potash rights covering approximately 5,120 acres (2,073 ha).

• Crown Potash Rights QL-6197 – MPC is the lessor of Crown potash rights covering approximately 14,300 acres (5,789 ha).

 Crown Potash Rights Withdrawn – Manitoba has withdrawn Crown potash rights totalling 40,500 acres (16,394 ha) within the Property boundary and is prepared to lease the rights to MPC or a successor company as part of



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