

The Canadian  
Geotechnical Society



La Société Canadienne  
de Géotechnique

## CGS Luncheon Presentation

### Cockburn Sewer Relief Project (Contract 4) - Construction of Large Diameter Tunnel using Microtunnelling

**Presented by:**

**Ray Offman, M.Sc., P.Eng.**

Municipal/Civil Department, KGS Group

#### Presentation Abstract:

The presentation will focus on Contract 4 of the \$90 million Cockburn Sewer Relief project. Contract 4 included the design and construction of the first large diameter microtunnelling project in the City of Winnipeg. The project included the installation of 525 m of 2700 mm trunk sewer that connects the future separated Cockburn sewer system to the new storm retention basin located in the Parker Lands. The tunnelling was completed in two drives: A 420 m drive, and a 110 m drive (across three tracks of the CN mainline). The presentation presents the focus on the design and construction challenges of tunnelling in our local clay conditions.

#### About the Presenter:

Ray Offman is the Assistant Department Head of the Municipal/Civil Department at KGS Group. Mr. Offman holds 3 degrees from the University of Manitoba including a Bachelor's of Science in Civil Engineering and a Master's of Science in Civil Engineering. Mr. Offman has been employed at KGS since 2003. His responsibilities include management of medium to large scale sewer and water infrastructure projects. Mr. Offman has been managing the Cockburn and Calrossie Sewer Relief Project since 2013.

**Date:** Thursday, March 29, 2018  
**Time:** Lunch at 12:00 PM, Presentation at 12:20 PM  
**Location:** Holiday Inn South, 1330 Pembina Highway  
**RSVP:** 12:00 PM, Tuesday, March 27, 2018

#### Registration Fee (debit, credit, PayPal):

Membership	Price (\$)	Registration and Payment Link <sup>1,2</sup>
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#### For event information:

**Dylan Stafford, E.I.T.**  
**CGS Manitoba Section - Liaison**  
**P: 204-474-8072**  
**E: [student.liaison@cgsmanitoba.ca](mailto:student.liaison@cgsmanitoba.ca)**

#### For payment information:

**Earl Marvin De Guzman, M.Sc., E.I.T.**  
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**E: [treasurer@cgsmanitoba.ca](mailto:treasurer@cgsmanitoba.ca)**

- This event qualifies for 1 Professional Development Hour. The event is classified as 'Informal Activity' under EGM's CPD Program.
- Please note that if you are unable to attend, someone else can be sent in your place. We are accepting walk-ins depending on seating availability.
- If you wish to be added to the mailing list, please send an email to [cgs.manitoba@gmail.com](mailto:cgs.manitoba@gmail.com)