Birds Hill Project: Electromagnetic Survey

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Group 1 performed EM31 surveys at Site 1 (Overlook) in Birds Hill, Manitoba. The Overlook is located right off of North Drive and the UTM coordinates associated with the Overlook is 14U65950E, 5542850N.

The map area of the survey and the northing/easting lines are outlined on Figure 1. The SW, NW, SE, and NE had UTM coordinates of 14U0651901E, 5542886N, 14U0651947E, 5542871N, 14U0651888E, 5542836E, and 14U0561929E, 5542821N respectively. The entire survey area is a 50 m by 50 m square. The measurement spacing was completed every 5 m and started in the SW corner. The measurements were completed toward the NW corner and proceeded in a zigzag fashion.

Two tests were completed for the EM31 instrument. Firstly, Kevin Ramlakhan did five horizontal and vertical test measurements on from the SE corner to the SW corner. Amandeep Dhatt then completed five horizontal and vertical tests from the SW corner to the SE corner. This allowed a test to completed for different operators height. Secondly, the instrument height sensitivity test was completed at 0, 0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4 and 1.6 m for horizontal and vertical measurements.