

# MONITORING WELL ID: MW12-4



**Project Location:** 222, 230, 236 West Broadway

**Project Name/No.:** 11305-02

**Drilling Contractor:** McRae's Environmental/Uniwide Drilling Co. Ltd.

**Client:** Royal East Broadway Development Ltd.

**Drilling Equipment/Method:** Hydro-vac and solid stem auger

**Engineer/Geologist:** NG

**Well Location:** South portion of 236 West Broadway

**Drill Date:** July 24 & 26, 2012

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| Depth (ft/m) | Symbol | Soil / Sediment Description   | Sample Type | % Recovery | Sample Analyzed (Y,N) | Sample ID   | Headspace (PID) |     |      |      | Elevation (m) | Well Construction | Remarks |
|--------------|--------|---|-------------|------------|-----------------------|-------------|-----------------|-----|------|------|---------------|-------------------|---------|
|              |        |   |             |            |                       |             | 0               | 500 | 1000 | 1500 |               |                   |         |
| 0            |        | Ground Surface  |             |            |                       |             |                 |     |      |      | 103.42        |                   |         |
| 0            |        | <b>CONCRETE</b>   |             |            |                       |             |                 |     |      |      |               |                   |         |
| 0.5          |        | <b>FILL</b><br>Borwn to grey sand and gravel FILL, moist, loose, hydrocarbon-like odour at approximately 1.2 mbg, staining not observed.  | G           |            | N                     | MW12-4(0.5) | 3.1             |     |      |      |               |                   |         |
| 1.2          |        |   | G           |            | Y                     | MW12-4(1.2) | 3.3             |     |      |      |               |                   |         |
| 2.3          |        |   | G           |            | N                     | MW12-4(2.3) | 3.4             |     |      |      |               |                   |         |
| 3.0          |        | <b>SANDY SILT</b><br>Grey SANDY SILT, trace gravel, firm to stiff, dry from approximately 3.0 m to 4.6 mbg, moist to wet from approximately 4.6 mbg to 10.5 mbg, odours or staining not observed. |             |            | N                     | MW12-4(3.0) | 2.5             |     |      |      | 100.96        |                   |         |
| 3.8          |        |   |             |            | N                     | MW12-4(3.8) | 2.0             |     |      |      |               |                   |         |
| 4.6          |        |   |             |            | N                     | MW12-4(4.6) | 2.2             |     |      |      |               |                   |         |
| 5.3          |        |   |             |            | N                     | MW12-4(5.3) | 1.6             |     |      |      |               |                   |         |
| 6.1          |        |   |             |            | N                     | MW12-4(6.1) | 1.2             |     |      |      |               |                   |         |

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|  |                                       |                                    |
|--|---------------------------------------|------------------------------------|
| Co-ordinates:                          | Well-Borehole Diameter: 0.20 m        | Depth of Well (TOC): 10.530 m      |
| Date of Water Level: July 30, 2012     | Well Casing Diameter: 0.05 m          | Well Elevation (TOC): 103.324 m    |
| Water Level (from TOC): 4.190 m        | Well Casing Material: Schedule 40 PVC | Well Elevation (Ground): 103.419 m |
| Surveyed Water Elevation (m): 99.134 m | Well Screen Slot Size: 0.25 mm        | Datum: Local                       |

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| Depth (ft/m) | Symbol | Soil / Sediment Description | Sample Type | % Recovery | Sample Analyzed (Y,N) | Sample ID   | Headspace (PID) |     |      |      |      | Elevation (m) | Well Construction | Remarks |
|--------------|--------|-----------------------------|-------------|------------|-----------------------|-------------|-----------------|-----|------|------|------|---------------|-------------------|---------|
|              |        |                             |             |            |                       |             | 0               | 500 | 1000 | 1500 | 2000 |               |                   |         |
| 21           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 22           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 23           | 7      |                             | ■           |            | N                     | MW12-4(6.9) |                 |     |      |      | 2.8  |               |                   |         |
| 24           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 25           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 26           | 8      |                             | ■           |            | N                     | MW12-4(7.6) |                 |     |      |      | 2.5  |               |                   |         |
| 27           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 28           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 29           | 9      |                             | ■           |            | N                     | MW12-4(8.4) |                 |     |      |      | 2.4  |               |                   |         |
| 30           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 31           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 32           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 33           | 10     |                             | ■           |            | N                     | MW12-4(9.9) |                 |     |      |      | 2.2  |               |                   |         |
| 34           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 35           |        | End of Hole                 |             |            |                       |             |                 |     |      |      |      | 92.75         |                   |         |
| 36           | 11     |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 37           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 38           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 39           | 12     |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |
| 40           |        |                             |             |            |                       |             |                 |     |      |      |      |               |                   |         |

Well Screen and 10/20 Silica Sand

Co-ordinates:

Date of Water Level: July 30, 2012

Water Level (from TOC): 4.190 m

Surveyed Water Elevation (m): 99.134 m

Well-Borehole Diameter: 0.20 m

Well Casing Diameter: 0.05 m

Well Casing Material: Schedule 40 PVC

Well Screen Slot Size: 0.25 mm

Depth of Well (TOC): 10.530 m

Well Elevation (TOC): 103.324 m

Well Elevation (Ground): 103.419 m

Datum: Local