

APPENDIX 6
MCE SOIL CHEMISTRY

Your Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Your C.O.C. #: na

Attention: Barry Cooke

ARCADIS Canada Inc
121 Granton Dr
Unit 11
Richmond Hill, ON
L4B 3N4

Report Date: 2016/02/16
Report #: R3895644
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B624283

Received: 2016/02/04, 18:33

Sample Matrix: Soil
Samples Received: 36

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Reference |
|---|----------|-------------------|------------------|-------------------|----------------------|
| Hot Water Extractable Boron | 36 | 2016/02/10 | 2016/02/10 | CAM SOP-00408 | R153 Ana. Prot. 2011 |
| Free (WAD) Cyanide | 16 | 2016/02/08 | 2016/02/12 | CAM SOP-00457 | OMOE E3015 m |
| Free (WAD) Cyanide | 20 | 2016/02/09 | 2016/02/12 | CAM SOP-00457 | OMOE E3015 m |
| Conductivity | 36 | N/A | 2016/02/10 | CAM SOP-00414 | OMOE E3138 v2 m |
| Hexavalent Chromium in Soil by IC (1) | 18 | 2016/02/09 | 2016/02/09 | CAM SOP-00436 | EPA 3060/7199 m |
| Hexavalent Chromium in Soil by IC (1) | 1 | 2016/02/09 | 2016/02/10 | CAM SOP-00436 | EPA 3060/7199 m |
| Hexavalent Chromium in Soil by IC (1) | 10 | 2016/02/10 | 2016/02/10 | CAM SOP-00436 | EPA 3060/7199 m |
| Hexavalent Chromium in Soil by IC (1) | 7 | 2016/02/10 | 2016/02/11 | CAM SOP-00436 | EPA 3060/7199 m |
| Petroleum Hydro. CCME F1 & BTEX in Soil (2) | 16 | N/A | 2016/02/09 | CAM SOP-00315 | CCME PHC-CWS m |
| Petroleum Hydro. CCME F1 & BTEX in Soil (2) | 20 | N/A | 2016/02/10 | CAM SOP-00315 | CCME PHC-CWS m |
| Petroleum Hydrocarbons F2-F4 in Soil (3) | 3 | 2016/02/09 | 2016/02/10 | CAM SOP-00316 | CCME CWS m |
| Petroleum Hydrocarbons F2-F4 in Soil (3) | 10 | 2016/02/10 | 2016/02/10 | CAM SOP-00316 | CCME CWS m |
| Petroleum Hydrocarbons F2-F4 in Soil (3) | 23 | 2016/02/10 | 2016/02/11 | CAM SOP-00316 | CCME CWS m |
| Strong Acid Leachable Metals by ICPMS | 19 | 2016/02/09 | 2016/02/09 | CAM SOP-00447 | EPA 6020A m |
| Strong Acid Leachable Metals by ICPMS | 1 | 2016/02/09 | 2016/02/10 | CAM SOP-00447 | EPA 6020A m |
| Strong Acid Leachable Metals by ICPMS | 5 | 2016/02/10 | 2016/02/10 | CAM SOP-00447 | EPA 6020A m |
| Strong Acid Leachable Metals by ICPMS | 11 | 2016/02/10 | 2016/02/11 | CAM SOP-00447 | EPA 6020A m |
| Moisture | 36 | N/A | 2016/02/10 | CAM SOP-00445 | Carter 2nd ed 51.2 m |
| pH CaCl2 EXTRACT | 8 | 2016/02/09 | 2016/02/09 | CAM SOP-00413 | EPA 9045 D m |
| pH CaCl2 EXTRACT | 28 | 2016/02/10 | 2016/02/10 | CAM SOP-00413 | EPA 9045 D m |
| Sodium Adsorption Ratio (SAR) | 1 | N/A | 2016/02/10 | CAM SOP-00102 | EPA 6010 |
| Sodium Adsorption Ratio (SAR) | 35 | N/A | 2016/02/11 | CAM SOP-00102 | EPA 6010 |
| SAR - ICP Metals | 36 | 2016/02/10 | 2016/02/10 | CAM SOP-00408 | EPA 6010 m |

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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- (1) Soils are reported on a dry weight basis unless otherwise specified.
(2) No lab extraction date is given for F1BTX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Keshani Vijh, Project Manager

Email: KVijh@maxxam.ca

Phone# (905) 817-5700

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

RESULTS OF ANALYSES OF SOIL

| Maxxam ID | | | BUL214 | BUL215 | | BUL216 | | BUL217 | | |
|---|-------|--------------|------------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | | na | | na | | |
| | UNITS | Criteria | SA-1 | SA-2 | QC Batch | SA-3 | QC Batch | SA-4 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 0.34 | 0.26 | 4371055 | 0.52 | 4371055 | 0.42 | | 4371055 |
| Inorganics | | | | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.30 | 0.22 | 4376560 | 0.34 | 4376585 | 0.22 | 0.002 | 4376560 |
| Free Cyanide | ug/g | 0.051 | <0.01 | <0.01 | 4375614 | <0.01 | 4375614 | <0.01 | 0.01 | 4375614 |
| Moisture | % | - | 17 | 16 | 4376678 | 14 | 4376678 | 13 | 1.0 | 4376678 |
| Available (CaCl2) pH | pH | - | 7.31 | 7.44 | 4375500 | 7.55 | 4375500 | 7.65 | | 4375612 |
| Metals | | | | | | | | | | |
| Soluble Calcium (Ca) | mg/L | - | 41.3 | 28.8 | 4376557 | 40.5 | 4376567 | 28.2 | 0.5 | 4376557 |
| Soluble Magnesium (Mg) | mg/L | - | 4.6 | 6.0 | 4376557 | 5.5 | 4376567 | 3.5 | 0.5 | 4376557 |
| Soluble Sodium (Na) | mg/L | - | 9 | 6 | 4376557 | 13 | 4376567 | 9 | 5 | 4376557 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) Table 1: Full Depth Background Site Condition Standards Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

| Maxxam ID | | | BUL218 | | BUL219 | | BUL220 | | BUL221 | | |
|---|-------|--------------|------------|----------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | na | | |
| | UNITS | Criteria | SA-5 | QC Batch | SA-6 | QC Batch | SA-7 | QC Batch | SA-8 | RDL | QC Batch |
| Calculated Parameters | | | | | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 0.39 | 4371055 | 0.69 | 4371055 | 0.43 | 4371055 | 0.54 | | 4371055 |
| Inorganics | | | | | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.25 | 4376585 | 0.38 | 4376585 | 0.24 | 4376585 | 0.38 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | <0.01 | 4375614 | <0.01 | 4374107 | <0.01 | 4374384 | <0.01 | 0.01 | 4375614 |
| Moisture | % | - | 14 | 4376678 | 11 | 4377557 | 9.8 | 4377557 | 11 | 1.0 | 4376678 |
| Available (CaCl2) pH | pH | - | 7.60 | 4375500 | 7.58 | 4375167 | 7.18 | 4374345 | 7.63 | | 4375500 |
| Metals | | | | | | | | | | | |
| Soluble Calcium (Ca) | mg/L | - | 31.4 | 4376567 | 44.7 | 4376567 | 28.5 | 4376567 | 45.4 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 4.1 | 4376567 | 4.7 | 4376567 | 3.8 | 4376567 | 5.9 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 9 | 4376567 | 18 | 4376567 | 9 | 4376567 | 14 | 5 | 4376567 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) Table 1: Full Depth Background Site Condition Standards Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | | |

RESULTS OF ANALYSES OF SOIL

| Maxxam ID | | | BUL222 | BUL223 | | BUL224 | BUL225 | | BUL226 | | |
|---------------|-------|----------|------------|------------|----------|------------|------------|----------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | | na | na | | na | | |
| | UNITS | Criteria | SA-9 | SA-10 | QC Batch | SA-11 | SA-12 | QC Batch | SA-13 | RDL | QC Batch |

| Calculated Parameters | | | | | | | | | | | |
|-------------------------|-----|------------|------|------|---------|-----|------|---------|------|--|---------|
| Sodium Adsorption Ratio | N/A | 2.4 | 0.25 | 0.48 | 4371055 | 1.2 | 0.69 | 4371055 | 0.47 | | 4371055 |

| Inorganics | | | | | | | | | | | |
|-----------------------------------|-------|--------------|-------|-------|---------|-------|-------|---------|-------|-------|---------|
| Conductivity | mS/cm | 0.57 | 0.24 | 0.23 | 4376560 | 0.51 | 0.44 | 4376585 | 0.33 | 0.002 | 4376560 |
| Free Cyanide | ug/g | 0.051 | <0.01 | <0.01 | 4375614 | <0.01 | <0.01 | 4375614 | <0.01 | 0.01 | 4375614 |
| Moisture | % | - | 17 | 17 | 4376678 | 16 | 11 | 4376678 | 13 | 1.0 | 4376678 |
| Available (CaCl ₂) pH | pH | - | 7.65 | 7.67 | 4375500 | 7.55 | 7.59 | 4375500 | 7.60 | | 4375500 |

| Metals | | | | | | | | | | | |
|------------------------|------|---|------|------|---------|------|------|---------|------|-----|---------|
| Soluble Calcium (Ca) | mg/L | - | 33.2 | 29.9 | 4376557 | 56.1 | 53.3 | 4376567 | 41.8 | 0.5 | 4376557 |
| Soluble Magnesium (Mg) | mg/L | - | 4.4 | 2.5 | 4376557 | 4.2 | 5.3 | 4376567 | 4.9 | 0.5 | 4376557 |
| Soluble Sodium (Na) | mg/L | - | 6 | 10 | 4376557 | 34 | 20 | 4376567 | 12 | 5 | 4376557 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

| Maxxam ID | | | BUL227 | BUL228 | | BUL229 | | BUL230 | BUL231 | | |
|---------------|-------|----------|------------|------------|----------|------------|----------|------------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | | na | | na | na | | |
| | UNITS | Criteria | SA-14 | SA-15 | QC Batch | SA-16 | QC Batch | SA-17 | SA-18 | RDL | QC Batch |

| Calculated Parameters | | | | | | | | | | | |
|-------------------------|-----|------------|-----|------|---------|------|---------|------|------|--|---------|
| Sodium Adsorption Ratio | N/A | 2.4 | 1.4 | 0.88 | 4371055 | 0.74 | 4371055 | 0.75 | 0.45 | | 4371055 |

| Inorganics | | | | | | | | | | | |
|-----------------------------------|-------|--------------|------|-------|---------|-------|---------|-------|-------|-------|---------|
| Conductivity | mS/cm | 0.57 | 0.56 | 0.48 | 4376585 | 0.50 | 4376585 | 0.49 | 0.30 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | 0.02 | <0.01 | 4374384 | <0.01 | 4374384 | <0.01 | <0.01 | 0.01 | 4374384 |
| Moisture | % | - | 16 | 14 | 4377557 | 18 | 4376805 | 16 | 16 | 1.0 | 4377557 |
| Available (CaCl ₂) pH | pH | - | 7.31 | 7.39 | 4374345 | 7.44 | 4374345 | 7.49 | 7.57 | | 4374345 |

| Metals | | | | | | | | | | | |
|------------------------|------|---|------|------|---------|------|---------|------|------|-----|---------|
| Soluble Calcium (Ca) | mg/L | - | 58.5 | 56.0 | 4376567 | 59.9 | 4376567 | 60.1 | 36.8 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 4.5 | 4.7 | 4376567 | 5.7 | 4376567 | 5.0 | 4.8 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 41 | 26 | 4376567 | 22 | 4376567 | 22 | 11 | 5 | 4376567 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

RESULTS OF ANALYSES OF SOIL

| | | | | | | | | | | | |
|----------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|------------|-----------------|
| Maxxam ID | | | BUL232 | | BUL233 | | BUL234 | | BUL235 | | |
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | na | | |
| | UNITS | Criteria | SA-19 | QC Batch | SA-20 | QC Batch | SA-21 | QC Batch | SA-22 | RDL | QC Batch |

| | | | | | | | | | | | |
|------------------------------|-----|------------|-----|---------|------|---------|------|---------|------|--|---------|
| Calculated Parameters | | | | | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 1.2 | 4371055 | 0.55 | 4371055 | 0.61 | 4371055 | 0.71 | | 4371055 |

| | | | | | | | | | | | |
|-----------------------------------|-------|--------------|------|---------|-------|---------|-------|---------|-------|-------|---------|
| Inorganics | | | | | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.57 | 4376585 | 0.41 | 4376560 | 0.49 | 4376560 | 0.53 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | 0.01 | 4374384 | <0.01 | 4374524 | <0.01 | 4375614 | <0.01 | 0.01 | 4374524 |
| Moisture | % | - | 16 | 4377557 | 18 | 4377453 | 18 | 4376678 | 18 | 1.0 | 4377453 |
| Available (CaCl ₂) pH | pH | - | 7.41 | 4374345 | 7.62 | 4375500 | 7.63 | 4375612 | 7.62 | | 4375500 |

| | | | | | | | | | | | |
|------------------------|------|---|------|---------|------|---------|------|---------|------|-----|---------|
| Metals | | | | | | | | | | | |
| Soluble Calcium (Ca) | mg/L | - | 62.9 | 4376567 | 48.6 | 4376557 | 56.3 | 4376557 | 63.0 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 4.8 | 4376567 | 7.0 | 4376557 | 8.4 | 4376557 | 6.6 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 37 | 4376567 | 16 | 4376557 | 18 | 4376557 | 22 | 5 | 4376567 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

| | | | | | | | | | | | |
|----------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|------------|-----------------|
| Maxxam ID | | | BUL236 | | BUL237 | | BUL238 | | BUL239 | | |
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | na | | |
| | UNITS | Criteria | SA-23 | QC Batch | SA-24 | QC Batch | SA-25 | QC Batch | SA-26 | RDL | QC Batch |

| | | | | | | | | | | | |
|------------------------------|-----|------------|------|---------|------|---------|------|---------|------|--|---------|
| Calculated Parameters | | | | | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 0.92 | 4371055 | 0.37 | 4371055 | 0.40 | 4371055 | 0.85 | | 4371055 |

| | | | | | | | | | | | |
|-----------------------------------|-------|--------------|-------------|---------|-------|---------|-------|---------|-------|-------|---------|
| Inorganics | | | | | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.78 | 4376585 | 0.38 | 4377291 | 0.30 | 4376560 | 0.30 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | <0.01 | 4374524 | <0.01 | 4374524 | <0.01 | 4374524 | <0.01 | 0.01 | 4374524 |
| Moisture | % | - | 23 | 4377453 | 12 | 4377195 | 17 | 4377453 | 14 | 1.0 | 4377453 |
| Available (CaCl ₂) pH | pH | - | 7.59 | 4375500 | 7.62 | 4375500 | 7.45 | 4375500 | 7.59 | | 4375500 |

| | | | | | | | | | | | |
|------------------------|------|---|------|---------|------|---------|------|---------|------|-----|---------|
| Metals | | | | | | | | | | | |
| Soluble Calcium (Ca) | mg/L | - | 88.6 | 4376567 | 42.8 | 4377221 | 42.2 | 4376557 | 33.4 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 9.9 | 4376567 | 6.9 | 4377221 | 3.9 | 4376557 | 3.0 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 34 | 4376567 | 10 | 4377221 | 10 | 4376557 | 19 | 5 | 4376567 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

RESULTS OF ANALYSES OF SOIL

| Maxxam ID | | | BUL240 | BUL241 | BUL242 | | BUL243 | | BUL244 | | |
|---------------|-------|----------|------------|------------|------------|----------|------------|----------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | na | | na | | na | | |
| | UNITS | Criteria | SA-27 | SA-28 | SA-29 | QC Batch | SA-30 | QC Batch | SA-31 | RDL | QC Batch |

| Calculated Parameters | | | | | | | | | | | |
|-------------------------|-----|------------|------|------|------|---------|------|---------|------|--|---------|
| Sodium Adsorption Ratio | N/A | 2.4 | 0.81 | 0.67 | 0.60 | 4371055 | 0.81 | 4371055 | 0.55 | | 4371055 |

| Inorganics | | | | | | | | | | | |
|-----------------------------------|-------|--------------|-------|-------|-------|---------|-------|---------|-------|-------|---------|
| Conductivity | mS/cm | 0.57 | 0.46 | 0.48 | 0.43 | 4376560 | 0.57 | 4376560 | 0.40 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | <0.01 | <0.01 | <0.01 | 4375614 | <0.01 | 4374524 | <0.01 | 0.01 | 4374524 |
| Moisture | % | - | 21 | 18 | 17 | 4376678 | 20 | 4377453 | 16 | 1.0 | 4377453 |
| Available (CaCl ₂) pH | pH | - | 7.55 | 7.60 | 7.63 | 4375612 | 7.61 | 4375500 | 7.55 | | 4375500 |

| Metals | | | | | | | | | | | |
|------------------------|------|---|------|------|------|---------|------|---------|------|-----|---------|
| Soluble Calcium (Ca) | mg/L | - | 53.3 | 57.9 | 52.8 | 4376557 | 64.8 | 4376557 | 49.4 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 5.3 | 5.4 | 6.6 | 4376557 | 6.6 | 4376557 | 5.6 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 23 | 20 | 17 | 4376557 | 25 | 4376557 | 15 | 5 | 4376567 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

| Maxxam ID | | | BUL245 | | BUL246 | BUL247 | | BUL248 | BUL249 | | |
|---------------|-------|----------|------------|----------|------------|------------|----------|------------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | | na | na | | na | na | | |
| | UNITS | Criteria | SA-32 | QC Batch | DUP#1 | DUP#2 | QC Batch | DUP#3 | DUP#4 | RDL | QC Batch |

| Calculated Parameters | | | | | | | | | | | |
|-------------------------|-----|------------|------|---------|------|------|---------|------|------|--|---------|
| Sodium Adsorption Ratio | N/A | 2.4 | 0.66 | 4371055 | 0.22 | 0.54 | 4371055 | 0.71 | 0.73 | | 4371055 |

| Inorganics | | | | | | | | | | | |
|-----------------------------------|-------|--------------|-------|---------|-------|-------|---------|-------|-------|-------|---------|
| Conductivity | mS/cm | 0.57 | 0.56 | 4376585 | 0.22 | 0.36 | 4376560 | 0.52 | 0.55 | 0.002 | 4376585 |
| Free Cyanide | ug/g | 0.051 | <0.01 | 4375614 | <0.01 | <0.01 | 4375614 | <0.01 | <0.01 | 0.01 | 4375614 |
| Moisture | % | - | 15 | 4376678 | 17 | 11 | 4376678 | 19 | 13 | 1.0 | 4376678 |
| Available (CaCl ₂) pH | pH | - | 7.62 | 4375612 | 7.62 | 7.57 | 4375612 | 7.62 | 7.67 | | 4375612 |

| Metals | | | | | | | | | | | |
|------------------------|------|---|------|---------|------|------|---------|------|------|-----|---------|
| Soluble Calcium (Ca) | mg/L | - | 66.2 | 4376567 | 30.8 | 44.1 | 4376557 | 61.5 | 67.0 | 0.5 | 4376567 |
| Soluble Magnesium (Mg) | mg/L | - | 8.8 | 4376567 | 5.1 | 4.8 | 4376557 | 6.0 | 6.3 | 0.5 | 4376567 |
| Soluble Sodium (Na) | mg/L | - | 22 | 4376567 | <5 | 14 | 4376557 | 22 | 23 | 5 | 4376567 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL214 | BUL215 | | BUL216 | | BUL217 | | |
|--|-------|-------------|------------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | | na | | na | | |
| | UNITS | Criteria | SA-1 | SA-2 | QC Batch | SA-3 | QC Batch | SA-4 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | <0.2 | 4375509 | <0.2 | 4375509 | <0.2 | 0.2 | 4376779 |
| Metals | | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.062 | 0.055 | 4376559 | 0.11 | 4376578 | 0.099 | 0.050 | 4376559 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | <0.20 | 4376621 | <0.20 | 4375554 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 3.6 | 3.6 | 4376621 | 3.0 | 4375554 | 3.0 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 47 | 91 | 4376621 | 79 | 4375554 | 74 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.46 | 0.64 | 4376621 | 0.57 | 4375554 | 0.52 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 6.7 | 10 | 4376621 | 12 | 4375554 | 8.7 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 0.10 | 4376621 | <0.10 | 4375554 | 0.14 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 15 | 21 | 4376621 | 21 | 4375554 | 17 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 7.3 | 10 | 4376621 | 8.8 | 4375554 | 8.6 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 18 | 22 | 4376621 | 18 | 4375554 | 17 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 7.7 | 9.1 | 4376621 | 8.5 | 4375554 | 8.3 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | <0.50 | 4376621 | <0.50 | 4375554 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 15 | 25 | 4376621 | 21 | 4375554 | 19 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | <0.50 | 4376621 | <0.50 | 4375554 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | <0.20 | 4376621 | <0.20 | 4375554 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.080 | 0.16 | 4376621 | 0.14 | 4375554 | 0.14 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.46 | 0.57 | 4376621 | 0.55 | 4375554 | 0.52 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 24 | 31 | 4376621 | 26 | 4375554 | 25 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 42 | 55 | 4376621 | 65 | 4375554 | 49 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | <0.050 | 4376621 | <0.050 | 4375554 | <0.050 | 0.050 | 4375554 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL218 | | BUL219 | | BUL220 | | |
|--|-------|-------------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | |
| | UNITS | Criteria | SA-5 | QC Batch | SA-6 | QC Batch | SA-7 | RDL | QC Batch |
| Inorganics | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4375509 | <0.2 | 4375515 | <0.2 | 0.2 | 4376783 |
| Metals | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.11 | 4376578 | 0.11 | 4376578 | 0.055 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4375554 | <0.20 | 4376660 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 2.7 | 4375554 | 2.7 | 4376660 | 1.6 | 1.0 | 4376660 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 76 | 4375554 | 48 | 4376660 | 33 | 0.50 | 4376660 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.53 | 4375554 | 0.41 | 4376660 | 0.24 | 0.20 | 4376660 |
| Acid Extractable Boron (B) | ug/g | 36 | 8.4 | 4375554 | 6.1 | 4376660 | <5.0 | 5.0 | 4376660 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 0.10 | 4375554 | 0.11 | 4376660 | <0.10 | 0.10 | 4376660 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 18 | 4375554 | 14 | 4376660 | 11 | 1.0 | 4376660 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 8.2 | 4375554 | 6.6 | 4376660 | 4.9 | 0.10 | 4376660 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 17 | 4375554 | 15 | 4376660 | 10 | 0.50 | 4376660 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 8.5 | 4375554 | 7.6 | 4376660 | 5.0 | 1.0 | 4376660 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4375554 | <0.50 | 4376660 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 19 | 4375554 | 14 | 4376660 | 9.6 | 0.50 | 4376660 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4375554 | 0.86 | 4376660 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4375554 | <0.20 | 4376660 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.13 | 4375554 | 0.091 | 4376660 | 0.072 | 0.050 | 4376660 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.52 | 4375554 | 0.45 | 4376660 | 0.40 | 0.050 | 4376660 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 25 | 4375554 | 23 | 4376660 | 19 | 5.0 | 4376660 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 55 | 4375554 | 38 | 4376660 | 29 | 5.0 | 4376660 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4375554 | <0.050 | 4376660 | <0.050 | 0.050 | 4376660 |
| RDL = Reportable Detection Limit | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| | | | | | | | | | | |
|---------------|-------|----------|------------|----------|------------|------------|----------|------------|-----|----------|
| Maxxam ID | | | BUL221 | | BUL222 | BUL223 | | BUL224 | | |
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | na | | na | | |
| | UNITS | Criteria | SA-8 | QC Batch | SA-9 | SA-10 | QC Batch | SA-11 | RDL | QC Batch |

| | | | | | | | | | | |
|----------------------------------|------|------|--------|---------|--------|--------|---------|--------|-------|---------|
| Inorganics | | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4375509 | <0.2 | <0.2 | 4375509 | <0.2 | 0.2 | 4375509 |
| Metals | | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.085 | 4376578 | 0.053 | <0.050 | 4376559 | 0.27 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4375554 | <0.20 | <0.20 | 4376621 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 2.0 | 4375554 | 3.8 | 3.5 | 4376621 | 3.3 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 39 | 4375554 | 63 | 33 | 4376621 | 55 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.29 | 4375554 | 0.55 | 0.37 | 4376621 | 0.52 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 6.0 | 4375554 | 8.4 | 5.2 | 4376621 | 6.0 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 4375554 | <0.10 | 0.10 | 4376621 | 0.20 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 11 | 4375554 | 18 | 13 | 4376621 | 15 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 5.1 | 4375554 | 9.2 | 7.1 | 4376621 | 7.4 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 10 | 4375554 | 19 | 19 | 4376621 | 18 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 6.1 | 4375554 | 8.7 | 7.0 | 4376621 | 11 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4375554 | <0.50 | <0.50 | 4376621 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 11 | 4375554 | 20 | 14 | 4376621 | 16 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4375554 | <0.50 | <0.50 | 4376621 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4375554 | <0.20 | <0.20 | 4376621 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.090 | 4375554 | 0.10 | 0.072 | 4376621 | 0.087 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.46 | 4375554 | 0.48 | 0.42 | 4376621 | 0.47 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 18 | 4375554 | 26 | 23 | 4376621 | 24 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 31 | 4375554 | 48 | 39 | 4376621 | 49 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4375554 | <0.050 | <0.050 | 4376621 | <0.050 | 0.050 | 4375554 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL225 | | BUL226 | | BUL227 | BUL228 | | |
|--|-------|-------------|------------|----------|------------|----------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | | na | | na | na | | |
| | UNITS | Criteria | SA-12 | QC Batch | SA-13 | QC Batch | SA-14 | SA-15 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4375509 | <0.2 | 4375509 | <0.2 | <0.2 | 0.2 | 4376783 |
| Metals | | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.15 | 4376578 | 0.12 | 4376559 | 0.28 | 0.18 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4375554 | <0.20 | 4376621 | <0.20 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 2.2 | 4375554 | 2.2 | 4376621 | 3.1 | 2.9 | 1.0 | 4376660 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 47 | 4375554 | 45 | 4376621 | 52 | 52 | 0.50 | 4376660 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.41 | 4375554 | 0.34 | 4376621 | 0.51 | 0.47 | 0.20 | 4376660 |
| Acid Extractable Boron (B) | ug/g | 36 | 6.2 | 4375554 | 6.3 | 4376621 | 5.7 | 6.5 | 5.0 | 4376660 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 0.16 | 4375554 | 0.10 | 4376621 | 0.22 | 0.17 | 0.10 | 4376660 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 14 | 4375554 | 13 | 4376621 | 17 | 16 | 1.0 | 4376660 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 6.2 | 4375554 | 5.8 | 4376621 | 7.3 | 7.1 | 0.10 | 4376660 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 14 | 4375554 | 13 | 4376621 | 18 | 17 | 0.50 | 4376660 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 8.0 | 4375554 | 6.8 | 4376621 | 11 | 9.5 | 1.0 | 4376660 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4375554 | <0.50 | 4376621 | <0.50 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 13 | 4375554 | 12 | 4376621 | 16 | 15 | 0.50 | 4376660 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4375554 | <0.50 | 4376621 | <0.50 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4375554 | <0.20 | 4376621 | <0.20 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.11 | 4375554 | 0.078 | 4376621 | 0.11 | 0.10 | 0.050 | 4376660 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.47 | 4375554 | 0.43 | 4376621 | 0.50 | 0.48 | 0.050 | 4376660 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 24 | 4375554 | 21 | 4376621 | 25 | 25 | 5.0 | 4376660 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 40 | 4375554 | 39 | 4376621 | 49 | 46 | 5.0 | 4376660 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4375554 | <0.050 | 4376621 | <0.050 | <0.050 | 0.050 | 4376660 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL229 | BUL230 | BUL231 | BUL232 | | BUL233 | | |
|---------------|-------|----------|------------|------------|------------|------------|----------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | na | na | | na | | |
| | UNITS | Criteria | SA-16 | SA-17 | SA-18 | SA-19 | QC Batch | SA-20 | RDL | QC Batch |

Inorganics

| | | | | | | | | | | |
|---------------|------|-------------|------|------|------|------|---------|------|-----|---------|
| Chromium (VI) | ug/g | 0.66 | <0.2 | <0.2 | <0.2 | <0.2 | 4376783 | <0.2 | 0.2 | 4375509 |
|---------------|------|-------------|------|------|------|------|---------|------|-----|---------|

Metals

| | | | | | | | | | | |
|----------------------------------|------|-------------|--------|--------|--------|--------|---------|--------|-------|---------|
| Hot Water Ext. Boron (B) | ug/g | - | 0.078 | 0.11 | 0.060 | 0.33 | 4376578 | <0.050 | 0.050 | 4376559 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | <0.20 | <0.20 | <0.20 | 4376660 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 3.3 | 3.2 | 3.0 | 3.3 | 4376660 | 3.2 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 44 | 41 | 44 | 54 | 4376660 | 33 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.41 | 0.43 | 0.40 | 0.49 | 4376660 | 0.35 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 7.6 | 5.6 | 6.4 | 6.0 | 4376660 | 5.5 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 0.12 | <0.10 | 0.30 | 4376660 | <0.10 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 14 | 15 | 14 | 16 | 4376660 | 12 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 7.2 | 7.0 | 7.1 | 6.8 | 4376660 | 6.4 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 18 | 17 | 18 | 18 | 4376660 | 16 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 7.7 | 7.4 | 7.2 | 11 | 4376660 | 6.6 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | <0.50 | <0.50 | <0.50 | 4376660 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 15 | 15 | 15 | 15 | 4376660 | 14 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | <0.50 | <0.50 | 0.56 | 4376660 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | <0.20 | <0.20 | <0.20 | 4376660 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.084 | 0.083 | 0.083 | 0.099 | 4376660 | 0.072 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.46 | 0.43 | 0.45 | 0.53 | 4376660 | 0.45 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 23 | 24 | 23 | 24 | 4376660 | 20 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 39 | 40 | 41 | 49 | 4376660 | 36 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | <0.050 | <0.050 | <0.050 | 4376660 | <0.050 | 0.050 | 4375554 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL234 | | BUL235 | | BUL236 | | |
|--|-------|-------------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | |
| | UNITS | Criteria | SA-21 | QC Batch | SA-22 | QC Batch | SA-23 | RDL | QC Batch |
| Inorganics | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4376779 | <0.2 | 4375509 | <0.2 | 0.2 | 4375509 |
| Metals | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | <0.050 | 4376559 | 0.084 | 4376578 | <0.050 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4375554 | <0.20 | 4376660 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 2.4 | 4375554 | 3.3 | 4376660 | 4.1 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 35 | 4375554 | 55 | 4376660 | 67 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.34 | 4375554 | 0.49 | 4376660 | 0.61 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 5.8 | 4375554 | 7.2 | 4376660 | 8.3 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 4375554 | 0.11 | 4376660 | 0.11 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 13 | 4375554 | 16 | 4376660 | 18 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 6.6 | 4375554 | 8.4 | 4376660 | 9.8 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 17 | 4375554 | 19 | 4376660 | 20 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 6.8 | 4375554 | 8.3 | 4376660 | 9.2 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4375554 | <0.50 | 4376660 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 14 | 4375554 | 18 | 4376660 | 20 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4375554 | <0.50 | 4376660 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4375554 | <0.20 | 4376660 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.065 | 4375554 | 0.10 | 4376660 | 0.12 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.45 | 4375554 | 0.49 | 4376660 | 0.52 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 21 | 4375554 | 25 | 4376660 | 28 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 36 | 4375554 | 45 | 4376660 | 48 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4375554 | <0.050 | 4376660 | <0.050 | 0.050 | 4375554 |
| RDL = Reportable Detection Limit | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL237 | | BUL238 | | BUL239 | | |
|--|-------|-------------|------------|----------|------------|----------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | | na | | na | | |
| | UNITS | Criteria | SA-24 | QC Batch | SA-25 | QC Batch | SA-26 | RDL | QC Batch |
| Inorganics | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4375509 | <0.2 | 4375509 | <0.2 | 0.2 | 4375509 |
| Metals | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.076 | 4376738 | 0.13 | 4376559 | 0.097 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4376795 | <0.20 | 4375554 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 2.6 | 4376795 | 3.6 | 4375554 | 3.8 | 1.0 | 4376660 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 51 | 4376795 | 51 | 4375554 | 60 | 0.50 | 4376660 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.37 | 4376795 | 0.49 | 4375554 | 0.52 | 0.20 | 4376660 |
| Acid Extractable Boron (B) | ug/g | 36 | 7.1 | 4376795 | 6.0 | 4375554 | 8.6 | 5.0 | 4376660 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 4376795 | 0.12 | 4375554 | 0.12 | 0.10 | 4376660 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 14 | 4376795 | 15 | 4375554 | 17 | 1.0 | 4376660 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 6.2 | 4376795 | 7.6 | 4375554 | 8.1 | 0.10 | 4376660 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 14 | 4376795 | 18 | 4375554 | 19 | 0.50 | 4376660 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 7.3 | 4376795 | 9.1 | 4375554 | 9.1 | 1.0 | 4376660 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4376795 | <0.50 | 4375554 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 14 | 4376795 | 16 | 4375554 | 18 | 0.50 | 4376660 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4376795 | <0.50 | 4375554 | <0.50 | 0.50 | 4376660 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4376795 | <0.20 | 4375554 | <0.20 | 0.20 | 4376660 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.093 | 4376795 | 0.096 | 4375554 | 0.096 | 0.050 | 4376660 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.52 | 4376795 | 0.49 | 4375554 | 0.49 | 0.050 | 4376660 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 22 | 4376795 | 24 | 4375554 | 27 | 5.0 | 4376660 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 37 | 4376795 | 45 | 4375554 | 48 | 5.0 | 4376660 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4376795 | <0.050 | 4375554 | <0.050 | 0.050 | 4376660 |
| RDL = Reportable Detection Limit | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL240 | BUL241 | BUL242 | | BUL243 | | |
|---------------|-------|----------|------------|------------|------------|----------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | na | | na | | |
| | UNITS | Criteria | SA-27 | SA-28 | SA-29 | QC Batch | SA-30 | RDL | QC Batch |

Inorganics

| | | | | | | | | | |
|---------------|------|-------------|------|------|------|---------|------|-----|---------|
| Chromium (VI) | ug/g | 0.66 | <0.2 | <0.2 | <0.2 | 4376779 | <0.2 | 0.2 | 4375509 |
|---------------|------|-------------|------|------|------|---------|------|-----|---------|

Metals

| | | | | | | | | | |
|----------------------------------|------|-------------|--------|--------|--------|---------|--------|-------|---------|
| Hot Water Ext. Boron (B) | ug/g | - | 0.053 | 0.062 | 0.095 | 4376559 | 0.071 | 0.050 | 4376559 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | <0.20 | <0.20 | 4375554 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 3.5 | 2.9 | 2.8 | 4375554 | 3.0 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 51 | 44 | 45 | 4375554 | 45 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.50 | 0.35 | 0.44 | 4375554 | 0.38 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | <5.0 | 5.6 | 6.6 | 4375554 | 6.4 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 0.11 | 0.11 | <0.10 | 4375554 | <0.10 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 15 | 13 | 15 | 4375554 | 13 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 7.8 | 6.6 | 7.2 | 4375554 | 7.0 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 17 | 17 | 17 | 4375554 | 17 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 8.3 | 7.1 | 8.3 | 4375554 | 7.6 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | <0.50 | <0.50 | 4375554 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 15 | 13 | 15 | 4375554 | 15 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | <0.50 | <0.50 | 4375554 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | <0.20 | <0.20 | 4375554 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.097 | 0.074 | 0.095 | 4375554 | 0.083 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.44 | 0.44 | 0.50 | 4375554 | 0.47 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 26 | 21 | 23 | 4375554 | 21 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 54 | 39 | 43 | 4375554 | 41 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | <0.050 | <0.050 | 4375554 | <0.050 | 0.050 | 4375554 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL244 | | BUL245 | | BUL246 | BUL247 | | |
|--|-------|-------------|------------|----------|------------|----------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | | na | | na | na | | |
| | UNITS | Criteria | SA-31 | QC Batch | SA-32 | QC Batch | DUP#1 | DUP#2 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | 4375509 | <0.2 | 4376779 | <0.2 | <0.2 | 0.2 | 4376779 |
| Metals | | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.13 | 4376578 | 0.16 | 4376578 | <0.050 | 0.13 | 0.050 | 4376559 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | 4375554 | 0.39 | 4375554 | <0.20 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 3.0 | 4375554 | 3.1 | 4375554 | 3.9 | 2.2 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 66 | 4375554 | 70 | 4375554 | 84 | 45 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.53 | 4375554 | 0.54 | 4375554 | 0.65 | 0.38 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 7.6 | 4375554 | 7.6 | 4375554 | 11 | 6.3 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 0.14 | 4375554 | 0.14 | 4375554 | 0.10 | 0.13 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 18 | 4375554 | 17 | 4375554 | 20 | 13 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 8.0 | 4375554 | 7.9 | 4375554 | 9.8 | 6.1 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 18 | 4375554 | 17 | 4375554 | 21 | 13 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 9.1 | 4375554 | 9.5 | 4375554 | 9.5 | 7.8 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | 4375554 | <0.50 | 4375554 | <0.50 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 18 | 4375554 | 17 | 4375554 | 22 | 13 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | 4375554 | <0.50 | 4375554 | <0.50 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | 4375554 | <0.20 | 4375554 | <0.20 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.11 | 4375554 | 0.12 | 4375554 | 0.17 | 0.093 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.50 | 4375554 | 0.54 | 4375554 | 0.58 | 0.46 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 26 | 4375554 | 26 | 4375554 | 30 | 22 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 51 | 4375554 | 49 | 4375554 | 55 | 38 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | 4375554 | <0.050 | 4375554 | <0.050 | <0.050 | 0.050 | 4375554 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| Maxxam ID | | | BUL248 | BUL249 | | |
|--|-------|-------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | | |
| | UNITS | Criteria | DUP#3 | DUP#4 | RDL | QC Batch |
| Inorganics | | | | | | |
| Chromium (VI) | ug/g | 0.66 | <0.2 | <0.2 | 0.2 | 4376779 |
| Metals | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 0.094 | 0.16 | 0.050 | 4376578 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | <0.20 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 3.2 | 2.8 | 1.0 | 4375554 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 40 | 47 | 0.50 | 4375554 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 0.36 | 0.41 | 0.20 | 4375554 |
| Acid Extractable Boron (B) | ug/g | 36 | 5.7 | 6.3 | 5.0 | 4375554 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | <0.10 | 0.12 | 0.10 | 4375554 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 13 | 15 | 1.0 | 4375554 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 6.6 | 6.6 | 0.10 | 4375554 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 17 | 16 | 0.50 | 4375554 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 6.9 | 8.7 | 1.0 | 4375554 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | <0.50 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 14 | 14 | 0.50 | 4375554 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | <0.50 | <0.50 | 0.50 | 4375554 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | <0.20 | <0.20 | 0.20 | 4375554 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 0.074 | 0.093 | 0.050 | 4375554 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 0.39 | 0.47 | 0.050 | 4375554 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 22 | 22 | 5.0 | 4375554 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 39 | 43 | 5.0 | 4375554 |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | <0.050 | <0.050 | 0.050 | 4375554 |
| RDL = Reportable Detection Limit | | | | | | |
| QC Batch = Quality Control Batch | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL214 | BUL215 | BUL216 | BUL217 | BUL218 | BUL219 | | |
|--|-------|-------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | na | na | na | na | | |
| | UNITS | Criteria | SA-1 | SA-2 | SA-3 | SA-4 | SA-5 | SA-6 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F2-F4 Hydrocarbons | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4377183 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | Yes | Yes | Yes | Yes | | 4377183 |
| Surrogate Recovery (%) | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 100 | 100 | 101 | 100 | 100 | 99 | | 4376409 |
| 4-Bromofluorobenzene | % | - | 101 | 101 | 100 | 101 | 100 | 100 | | 4376409 |
| D10-Ethylbenzene | % | - | 83 | 80 | 92 | 83 | 88 | 86 | | 4376409 |
| D4-1,2-Dichloroethane | % | - | 102 | 102 | 102 | 102 | 101 | 101 | | 4376409 |
| o-Terphenyl | % | - | 102 | 103 | 101 | 103 | 100 | 102 | | 4377183 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL220 | BUL221 | BUL222 | BUL223 | BUL224 | BUL225 | | |
|--|-------|-------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | na | na | na | na | | |
| | UNITS | Criteria | SA-7 | SA-8 | SA-9 | SA-10 | SA-11 | SA-12 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F2-F4 Hydrocarbons | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4377183 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | Yes | Yes | Yes | Yes | | 4377183 |
| Surrogate Recovery (%) | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 99 | 100 | 99 | 100 | 98 | 100 | | 4376409 |
| 4-Bromofluorobenzene | % | - | 99 | 101 | 99 | 102 | 101 | 100 | | 4376409 |
| D10-Ethylbenzene | % | - | 88 | 91 | 78 | 83 | 80 | 86 | | 4376409 |
| D4-1,2-Dichloroethane | % | - | 101 | 102 | 101 | 102 | 103 | 101 | | 4376409 |
| o-Terphenyl | % | - | 103 | 101 | 102 | 102 | 102 | 101 | | 4377183 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL226 | BUL227 | BUL228 | BUL229 | BUL230 | BUL231 | | |
|--|-------|-------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | na | na | na | na | | |
| | UNITS | Criteria | SA-13 | SA-14 | SA-15 | SA-16 | SA-17 | SA-18 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4376409 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4376409 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4376409 |
| F2-F4 Hydrocarbons | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4377183 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377183 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | Yes | Yes | Yes | Yes | | 4377183 |
| Surrogate Recovery (%) | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 100 | 99 | 101 | 100 | 99 | 100 | | 4376409 |
| 4-Bromofluorobenzene | % | - | 99 | 100 | 100 | 101 | 99 | 100 | | 4376409 |
| D10-Ethylbenzene | % | - | 85 | 82 | 84 | 86 | 83 | 88 | | 4376409 |
| D4-1,2-Dichloroethane | % | - | 100 | 102 | 103 | 102 | 100 | 101 | | 4376409 |
| o-Terphenyl | % | - | 102 | 102 | 104 | 100 | 102 | 102 | | 4377183 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL232 | BUL233 | | BUL234 | BUL235 | BUL236 | | |
|---|-------|-------------|------------|------------|----------|------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | | na | na | na | | |
| | UNITS | Criteria | SA-19 | SA-20 | QC Batch | SA-21 | SA-22 | SA-23 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | 4376409 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | 4376409 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | 4376409 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | 4376409 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | 4376409 | <0.040 | <0.040 | <0.040 | 0.040 | 4375550 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | 4376409 | <0.040 | <0.040 | <0.040 | 0.040 | 4375550 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | 4376409 | <10 | <10 | <10 | 10 | 4375550 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | 4376409 | <10 | <10 | <10 | 10 | 4375550 |
| F2-F4 Hydrocarbons | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | 4377183 | <10 | <10 | <10 | 10 | 4377198 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | 4377183 | <50 | <50 | <50 | 50 | 4377198 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | 4377183 | <50 | <50 | <50 | 50 | 4377198 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | 4377183 | Yes | Yes | Yes | | 4377198 |
| Surrogate Recovery (%) | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 99 | 100 | 4376409 | 99 | 100 | 100 | | 4375550 |
| 4-Bromofluorobenzene | % | - | 99 | 99 | 4376409 | 102 | 102 | 102 | | 4375550 |
| D10-Ethylbenzene | % | - | 86 | 85 | 4376409 | 75 | 81 | 82 | | 4375550 |
| D4-1,2-Dichloroethane | % | - | 98 | 99 | 4376409 | 105 | 104 | 105 | | 4375550 |
| o-Terphenyl | % | - | 100 | 103 | 4377183 | 104 | 103 | 104 | | 4377198 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) Table 1: Full Depth Background Site Condition Standards Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL237 | BUL238 | BUL239 | BUL240 | BUL241 | BUL242 | | |
|---|-------|-------------|------------|------------|------------|------------|------------|------------|-------|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | na | na | na | na | | |
| | UNITS | Criteria | SA-24 | SA-25 | SA-26 | SA-27 | SA-28 | SA-29 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 4375550 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4375550 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.040 | 4375550 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4375550 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4375550 |
| F2-F4 Hydrocarbons | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | <10 | <10 | <10 | <10 | 10 | 4377198 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377198 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 4377198 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | Yes | Yes | Yes | Yes | | 4377198 |
| Surrogate Recovery (%) | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 98 | 99 | 99 | 98 | 99 | 101 | | 4375550 |
| 4-Bromofluorobenzene | % | - | 102 | 101 | 101 | 99 | 102 | 101 | | 4375550 |
| D10-Ethylbenzene | % | - | 74 | 69 | 75 | 71 | 71 | 77 | | 4375550 |
| D4-1,2-Dichloroethane | % | - | 105 | 104 | 105 | 104 | 106 | 106 | | 4375550 |
| o-Terphenyl | % | - | 111 | 102 | 105 | 104 | 105 | 103 | | 4377198 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) Table 1: Full Depth Background Site Condition Standards Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | | | | | |

PETROLEUM HYDROCARBONS (CCME)

| Maxxam ID | | | BUL243 | BUL244 | | BUL245 | BUL246 | | BUL247 | | |
|---------------|-------|----------|------------|------------|----------|------------|------------|----------|------------|-----|----------|
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | 2016/02/04 | | 2016/02/04 | | |
| COC Number | | | na | na | | na | na | | na | | |
| | UNITS | Criteria | SA-30 | SA-31 | QC Batch | SA-32 | DUP#1 | QC Batch | DUP#2 | RDL | QC Batch |

| | | | | | | | | | | | |
|-----------------------------------|------|-------------|--------|--------|---------|--------|--------|---------|--------|-------|---------|
| BTEX & F1 Hydrocarbons | | | | | | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | 4375550 | <0.020 | <0.020 | 4375550 | <0.020 | 0.020 | 4375550 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | 4375550 | <0.020 | <0.020 | 4375550 | <0.020 | 0.020 | 4375550 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | 4375550 | <0.020 | <0.020 | 4375550 | <0.020 | 0.020 | 4375550 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | 4375550 | <0.020 | <0.020 | 4375550 | <0.020 | 0.020 | 4375550 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | 4375550 | <0.040 | <0.040 | 4375550 | <0.040 | 0.040 | 4375550 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | 4375550 | <0.040 | <0.040 | 4375550 | <0.040 | 0.040 | 4375550 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | 4375550 | <10 | <10 | 4375550 | <10 | 10 | 4375550 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | 4375550 | <10 | <10 | 4375550 | <10 | 10 | 4375550 |
| F2-F4 Hydrocarbons | | | | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | 4375582 | <10 | <10 | 4377198 | <10 | 10 | 4375582 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | 4375582 | <50 | <50 | 4377198 | <50 | 50 | 4375582 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | <50 | 4375582 | <50 | <50 | 4377198 | <50 | 50 | 4375582 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | 4375582 | Yes | Yes | 4377198 | Yes | | 4375582 |
| Surrogate Recovery (%) | | | | | | | | | | | |
| 1,4-Difluorobenzene | % | - | 99 | 100 | 4375550 | 99 | 98 | 4375550 | 99 | | 4375550 |
| 4-Bromofluorobenzene | % | - | 101 | 101 | 4375550 | 101 | 100 | 4375550 | 100 | | 4375550 |
| D10-Ethylbenzene | % | - | 76 | 82 | 4375550 | 79 | 72 | 4375550 | 72 | | 4375550 |
| D4-1,2-Dichloroethane | % | - | 105 | 106 | 4375550 | 107 | 106 | 4375550 | 105 | | 4375550 |
| o-Terphenyl | % | - | 103 | 103 | 4375582 | 101 | 103 | 4377198 | 103 | | 4375582 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 1: Full Depth Background Site Condition Standards

Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

PETROLEUM HYDROCARBONS (CCME)

| | | | | | | |
|--|--------------|-----------------|--------------|--------------|------------|-----------------|
| Maxxam ID | | | BUL248 | BUL249 | | |
| Sampling Date | | | 2016/02/04 | 2016/02/04 | | |
| COC Number | | | na | na | | |
| | UNITS | Criteria | DUP#3 | DUP#4 | RDL | QC Batch |
| BTEX & F1 Hydrocarbons | | | | | | |
| Benzene | ug/g | 0.02 | <0.020 | <0.020 | 0.020 | 4375550 |
| Toluene | ug/g | 0.2 | <0.020 | <0.020 | 0.020 | 4375550 |
| Ethylbenzene | ug/g | 0.05 | <0.020 | <0.020 | 0.020 | 4375550 |
| o-Xylene | ug/g | - | <0.020 | <0.020 | 0.020 | 4375550 |
| p+m-Xylene | ug/g | - | <0.040 | <0.040 | 0.040 | 4375550 |
| Total Xylenes | ug/g | 0.05 | <0.040 | <0.040 | 0.040 | 4375550 |
| F1 (C6-C10) | ug/g | 25 | <10 | <10 | 10 | 4375550 |
| F1 (C6-C10) - BTEX | ug/g | 25 | <10 | <10 | 10 | 4375550 |
| F2-F4 Hydrocarbons | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | <10 | <10 | 10 | 4377198 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | <50 | <50 | 50 | 4377198 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | <50 | 70 | 50 | 4377198 |
| Reached Baseline at C50 | ug/g | - | Yes | Yes | | 4377198 |
| Surrogate Recovery (%) | | | | | | |
| 1,4-Difluorobenzene | % | - | 99 | 99 | | 4375550 |
| 4-Bromofluorobenzene | % | - | 100 | 98 | | 4375550 |
| D10-Ethylbenzene | % | - | 78 | 74 | | 4375550 |
| D4-1,2-Dichloroethane | % | - | 105 | 106 | | 4375550 |
| o-Terphenyl | % | - | 103 | 105 | | 4377198 |
| RDL = Reportable Detection Limit | | | | | | |
| QC Batch = Quality Control Batch | | | | | | |
| Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) | | | | | | |
| Table 1: Full Depth Background Site Condition Standards | | | | | | |
| Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use | | | | | | |

GENERAL COMMENTS

Sample BUL215-01 : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample BUL222-01 : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample BUL246-01 : SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|---------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4375550 | 1,4-Difluorobenzene | 2016/02/09 | 99 | 60 - 140 | 101 | 60 - 140 | 99 | % | | | | |
| 4375550 | 4-Bromofluorobenzene | 2016/02/09 | 103 | 60 - 140 | 102 | 60 - 140 | 100 | % | | | | |
| 4375550 | D10-Ethylbenzene | 2016/02/09 | 75 | 60 - 140 | 77 | 60 - 140 | 76 | % | | | | |
| 4375550 | D4-1,2-Dichloroethane | 2016/02/09 | 104 | 60 - 140 | 106 | 60 - 140 | 104 | % | | | | |
| 4375582 | o-Terphenyl | 2016/02/10 | 112 | 60 - 130 | 105 | 60 - 130 | 105 | % | | | | |
| 4376409 | 1,4-Difluorobenzene | 2016/02/10 | 99 | 60 - 140 | 98 | 60 - 140 | 100 | % | | | | |
| 4376409 | 4-Bromofluorobenzene | 2016/02/10 | 101 | 60 - 140 | 99 | 60 - 140 | 101 | % | | | | |
| 4376409 | D10-Ethylbenzene | 2016/02/10 | 79 | 60 - 140 | 100 | 60 - 140 | 86 | % | | | | |
| 4376409 | D4-1,2-Dichloroethane | 2016/02/10 | 103 | 60 - 140 | 108 | 60 - 140 | 102 | % | | | | |
| 4377183 | o-Terphenyl | 2016/02/10 | 105 | 60 - 130 | 103 | 60 - 130 | 104 | % | | | | |
| 4377198 | o-Terphenyl | 2016/02/10 | 105 | 60 - 130 | 105 | 60 - 130 | 101 | % | | | | |
| 4374107 | Free Cyanide | 2016/02/12 | 107 | 75 - 125 | 102 | 80 - 120 | <0.01 | ug/g | NC | 35 | | |
| 4374345 | Available (CaCl2) pH | 2016/02/09 | | | 98 | 97 - 103 | | | 2.1 | N/A | | |
| 4374384 | Free Cyanide | 2016/02/12 | 102 | 75 - 125 | 101 | 80 - 120 | <0.01 | ug/g | NC | 35 | | |
| 4374524 | Free Cyanide | 2016/02/12 | 103 | 75 - 125 | 101 | 80 - 120 | <0.01 | ug/g | NC | 35 | | |
| 4375167 | Available (CaCl2) pH | 2016/02/09 | | | 98 | 97 - 103 | | | 0.74 | N/A | | |
| 4375500 | Available (CaCl2) pH | 2016/02/10 | | | 98 | 97 - 103 | | | 0.028 | N/A | | |
| 4375509 | Chromium (VI) | 2016/02/09 | 80 | 75 - 125 | 98 | 80 - 120 | <0.2 | ug/g | NC | 35 | 90 | 75 - 125 |
| 4375515 | Chromium (VI) | 2016/02/10 | 98 | 75 - 125 | 94 | 80 - 120 | <0.2 | ug/g | NC | 35 | 82 | 75 - 125 |
| 4375550 | Benzene | 2016/02/09 | 80 | 60 - 140 | 89 | 60 - 140 | <0.020 | ug/g | | | | |
| 4375550 | Ethylbenzene | 2016/02/09 | 85 | 60 - 140 | 91 | 60 - 140 | <0.020 | ug/g | | | | |
| 4375550 | F1 (C6-C10) - BTEX | 2016/02/09 | | | | | <10 | ug/g | NC | 30 | | |
| 4375550 | F1 (C6-C10) | 2016/02/09 | 89 | 60 - 140 | 95 | 80 - 120 | <10 | ug/g | NC | 30 | | |
| 4375550 | o-Xylene | 2016/02/09 | 89 | 60 - 140 | 96 | 60 - 140 | <0.020 | ug/g | | | | |
| 4375550 | p+m-Xylene | 2016/02/09 | 80 | 60 - 140 | 86 | 60 - 140 | <0.040 | ug/g | | | | |
| 4375550 | Toluene | 2016/02/09 | 82 | 60 - 140 | 90 | 60 - 140 | <0.020 | ug/g | | | | |
| 4375550 | Total Xylenes | 2016/02/09 | | | | | <0.040 | ug/g | | | | |
| 4375554 | Acid Extractable Antimony (Sb) | 2016/02/09 | 94 | 75 - 125 | 97 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Arsenic (As) | 2016/02/09 | 99 | 75 - 125 | 101 | 80 - 120 | <1.0 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Barium (Ba) | 2016/02/09 | NC | 75 - 125 | 101 | 80 - 120 | <0.50 | ug/g | 0.0066 | 30 | | |
| 4375554 | Acid Extractable Beryllium (Be) | 2016/02/09 | 100 | 75 - 125 | 98 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |

QUALITY ASSURANCE REPORT(CONT'D)

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4375554 | Acid Extractable Boron (B) | 2016/02/09 | 91 | 75 - 125 | 96 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Cadmium (Cd) | 2016/02/09 | 101 | 75 - 125 | 97 | 80 - 120 | <0.10 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Chromium (Cr) | 2016/02/09 | NC | 75 - 125 | 97 | 80 - 120 | <1.0 | ug/g | 1.8 | 30 | | |
| 4375554 | Acid Extractable Cobalt (Co) | 2016/02/09 | 98 | 75 - 125 | 99 | 80 - 120 | <0.10 | ug/g | 0.22 | 30 | | |
| 4375554 | Acid Extractable Copper (Cu) | 2016/02/09 | NC | 75 - 125 | 100 | 80 - 120 | <0.50 | ug/g | 5.6 | 30 | | |
| 4375554 | Acid Extractable Lead (Pb) | 2016/02/09 | 98 | 75 - 125 | 99 | 80 - 120 | <1.0 | ug/g | 1.3 | 30 | | |
| 4375554 | Acid Extractable Mercury (Hg) | 2016/02/09 | 102 | 75 - 125 | 103 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Molybdenum (Mo) | 2016/02/09 | 101 | 75 - 125 | 98 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Nickel (Ni) | 2016/02/09 | NC | 75 - 125 | 101 | 80 - 120 | <0.50 | ug/g | 4.7 | 30 | | |
| 4375554 | Acid Extractable Selenium (Se) | 2016/02/09 | 104 | 75 - 125 | 106 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Silver (Ag) | 2016/02/09 | 99 | 75 - 125 | 98 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Thallium (Tl) | 2016/02/09 | 96 | 75 - 125 | 99 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4375554 | Acid Extractable Uranium (U) | 2016/02/09 | 102 | 75 - 125 | 101 | 80 - 120 | <0.050 | ug/g | 2.4 | 30 | | |
| 4375554 | Acid Extractable Vanadium (V) | 2016/02/09 | NC | 75 - 125 | 99 | 80 - 120 | <5.0 | ug/g | 2.1 | 30 | | |
| 4375554 | Acid Extractable Zinc (Zn) | 2016/02/09 | NC | 75 - 125 | 102 | 80 - 120 | <5.0 | ug/g | 10 | 30 | | |
| 4375582 | F2 (C10-C16 Hydrocarbons) | 2016/02/10 | 112 | 50 - 130 | 99 | 80 - 120 | <10 | ug/g | NC | 30 | | |
| 4375582 | F3 (C16-C34 Hydrocarbons) | 2016/02/10 | 110 | 50 - 130 | 97 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4375582 | F4 (C34-C50 Hydrocarbons) | 2016/02/10 | 113 | 50 - 130 | 98 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4375612 | Available (CaCl2) pH | 2016/02/10 | | | 99 | 97 - 103 | | | 0.32 | N/A | | |
| 4375614 | Free Cyanide | 2016/02/12 | 108 | 75 - 125 | 102 | 80 - 120 | <0.01 | ug/g | NC | 35 | | |
| 4376409 | Benzene | 2016/02/10 | 81 | 60 - 140 | 107 | 60 - 140 | <0.020 | ug/g | NC | 50 | | |
| 4376409 | Ethylbenzene | 2016/02/10 | 86 | 60 - 140 | 104 | 60 - 140 | <0.020 | ug/g | NC | 50 | | |
| 4376409 | F1 (C6-C10) - BTEX | 2016/02/10 | | | | | <10 | ug/g | NC | 30 | | |
| 4376409 | F1 (C6-C10) | 2016/02/10 | 81 | 60 - 140 | 92 | 80 - 120 | <10 | ug/g | NC | 30 | | |
| 4376409 | o-Xylene | 2016/02/10 | 91 | 60 - 140 | 108 | 60 - 140 | <0.020 | ug/g | NC | 50 | | |
| 4376409 | p+m-Xylene | 2016/02/10 | 81 | 60 - 140 | 95 | 60 - 140 | <0.040 | ug/g | NC | 50 | | |
| 4376409 | Toluene | 2016/02/10 | 84 | 60 - 140 | 103 | 60 - 140 | <0.020 | ug/g | NC | 50 | | |
| 4376409 | Total Xylenes | 2016/02/10 | | | | | <0.040 | ug/g | NC | 50 | | |
| 4376557 | Soluble Calcium (Ca) | 2016/02/10 | | | 100 | 80 - 120 | <0.5 | mg/L | 0.43 | 30 | | |
| 4376557 | Soluble Magnesium (Mg) | 2016/02/10 | | | 99 | 80 - 120 | <0.5 | mg/L | 1.7 | 30 | | |
| 4376557 | Soluble Sodium (Na) | 2016/02/10 | | | 104 | 80 - 120 | <5 | mg/L | NC | 30 | | |

QUALITY ASSURANCE REPORT(CONT'D)

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4376559 | Hot Water Ext. Boron (B) | 2016/02/10 | 92 | 75 - 125 | 90 | 75 - 125 | <0.050 | ug/g | NC | 40 | | |
| 4376560 | Conductivity | 2016/02/10 | | | 101 | 90 - 110 | <0.002 | mS/cm | 0.34 | 10 | | |
| 4376567 | Soluble Calcium (Ca) | 2016/02/10 | | | 98 | 80 - 120 | <0.5 | mg/L | 1.1 | 30 | | |
| 4376567 | Soluble Magnesium (Mg) | 2016/02/10 | | | 96 | 80 - 120 | <0.5 | mg/L | 0.24 | 30 | | |
| 4376567 | Soluble Sodium (Na) | 2016/02/10 | | | 103 | 80 - 120 | <5 | mg/L | NC | 30 | | |
| 4376578 | Hot Water Ext. Boron (B) | 2016/02/10 | 94 | 75 - 125 | 92 | 75 - 125 | <0.050 | ug/g | NC | 40 | | |
| 4376585 | Conductivity | 2016/02/10 | | | 100 | 90 - 110 | <0.002 | mS/cm | 1.0 | 10 | | |
| 4376621 | Acid Extractable Antimony (Sb) | 2016/02/10 | 92 | 75 - 125 | 98 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Arsenic (As) | 2016/02/10 | 94 | 75 - 125 | 100 | 80 - 120 | <1.0 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Barium (Ba) | 2016/02/10 | NC | 75 - 125 | 99 | 80 - 120 | <0.50 | ug/g | 2.0 | 30 | | |
| 4376621 | Acid Extractable Beryllium (Be) | 2016/02/10 | 97 | 75 - 125 | 96 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Boron (B) | 2016/02/10 | 89 | 75 - 125 | 92 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Cadmium (Cd) | 2016/02/10 | 96 | 75 - 125 | 98 | 80 - 120 | <0.10 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Chromium (Cr) | 2016/02/10 | 95 | 75 - 125 | 101 | 80 - 120 | <1.0 | ug/g | 8.5 | 30 | | |
| 4376621 | Acid Extractable Cobalt (Co) | 2016/02/10 | 96 | 75 - 125 | 102 | 80 - 120 | <0.10 | ug/g | 2.7 | 30 | | |
| 4376621 | Acid Extractable Copper (Cu) | 2016/02/10 | NC | 75 - 125 | 102 | 80 - 120 | <0.50 | ug/g | 1.7 | 30 | | |
| 4376621 | Acid Extractable Lead (Pb) | 2016/02/10 | 95 | 75 - 125 | 96 | 80 - 120 | <1.0 | ug/g | 3.6 | 30 | | |
| 4376621 | Acid Extractable Mercury (Hg) | 2016/02/10 | 103 | 75 - 125 | 103 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Molybdenum (Mo) | 2016/02/10 | 96 | 75 - 125 | 101 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Nickel (Ni) | 2016/02/10 | 95 | 75 - 125 | 100 | 80 - 120 | <0.50 | ug/g | 2.8 | 30 | | |
| 4376621 | Acid Extractable Selenium (Se) | 2016/02/10 | 97 | 75 - 125 | 100 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Silver (Ag) | 2016/02/10 | 94 | 75 - 125 | 98 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Thallium (Tl) | 2016/02/10 | 94 | 75 - 125 | 96 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Uranium (U) | 2016/02/10 | 97 | 75 - 125 | 95 | 80 - 120 | <0.050 | ug/g | 2.4 | 30 | | |
| 4376621 | Acid Extractable Vanadium (V) | 2016/02/10 | NC | 75 - 125 | 99 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |
| 4376621 | Acid Extractable Zinc (Zn) | 2016/02/10 | NC | 75 - 125 | 99 | 80 - 120 | <5.0 | ug/g | 12 | 30 | | |
| 4376660 | Acid Extractable Antimony (Sb) | 2016/02/11 | 90 | 75 - 125 | 99 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Arsenic (As) | 2016/02/11 | 99 | 75 - 125 | 99 | 80 - 120 | <1.0 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Barium (Ba) | 2016/02/11 | NC | 75 - 125 | 97 | 80 - 120 | <0.50 | ug/g | 4.3 | 30 | | |
| 4376660 | Acid Extractable Beryllium (Be) | 2016/02/11 | 100 | 75 - 125 | 95 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Boron (B) | 2016/02/11 | 86 | 75 - 125 | 93 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |

QUALITY ASSURANCE REPORT(CONT'D)

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|----------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4376660 | Acid Extractable Cadmium (Cd) | 2016/02/11 | 99 | 75 - 125 | 96 | 80 - 120 | <0.10 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Chromium (Cr) | 2016/02/11 | NC | 75 - 125 | 99 | 80 - 120 | <1.0 | ug/g | 1.6 | 30 | | |
| 4376660 | Acid Extractable Cobalt (Co) | 2016/02/11 | 102 | 75 - 125 | 99 | 80 - 120 | <0.10 | ug/g | 2.3 | 30 | | |
| 4376660 | Acid Extractable Copper (Cu) | 2016/02/11 | NC | 75 - 125 | 101 | 80 - 120 | <0.50 | ug/g | 3.3 | 30 | | |
| 4376660 | Acid Extractable Lead (Pb) | 2016/02/11 | 99 | 75 - 125 | 100 | 80 - 120 | <1.0 | ug/g | 2.6 | 30 | | |
| 4376660 | Acid Extractable Mercury (Hg) | 2016/02/11 | 112 | 75 - 125 | 111 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Molybdenum (Mo) | 2016/02/11 | 99 | 75 - 125 | 97 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Nickel (Ni) | 2016/02/11 | NC | 75 - 125 | 99 | 80 - 120 | <0.50 | ug/g | 0.37 | 30 | | |
| 4376660 | Acid Extractable Selenium (Se) | 2016/02/11 | 99 | 75 - 125 | 99 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Silver (Ag) | 2016/02/11 | 98 | 75 - 125 | 99 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Thallium (Tl) | 2016/02/11 | 97 | 75 - 125 | 98 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376660 | Acid Extractable Uranium (U) | 2016/02/11 | 102 | 75 - 125 | 101 | 80 - 120 | <0.050 | ug/g | 4.0 | 30 | | |
| 4376660 | Acid Extractable Vanadium (V) | 2016/02/11 | NC | 75 - 125 | 100 | 80 - 120 | <5.0 | ug/g | 0.041 | 30 | | |
| 4376660 | Acid Extractable Zinc (Zn) | 2016/02/11 | NC | 75 - 125 | 99 | 80 - 120 | <5.0 | ug/g | 0.99 | 30 | | |
| 4376678 | Moisture | 2016/02/10 | | | | | | | 14 | 20 | | |
| 4376738 | Hot Water Ext. Boron (B) | 2016/02/10 | 93 | 75 - 125 | 91 | 75 - 125 | <0.050 | ug/g | NC | 40 | | |
| 4376779 | Chromium (VI) | 2016/02/10 | 73 (1) | 75 - 125 | 92 | 80 - 120 | <0.2 | ug/g | NC | 35 | 75 | 75 - 125 |
| 4376783 | Chromium (VI) | 2016/02/11 | 82 | 75 - 125 | 95 | 80 - 120 | <0.2 | ug/g | NC | 35 | 79 | 75 - 125 |
| 4376795 | Acid Extractable Antimony (Sb) | 2016/02/11 | 99 | 75 - 125 | 103 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Arsenic (As) | 2016/02/11 | 97 | 75 - 125 | 98 | 80 - 120 | <1.0 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Barium (Ba) | 2016/02/11 | NC | 75 - 125 | 103 | 80 - 120 | <0.50 | ug/g | 5.6 | 30 | | |
| 4376795 | Acid Extractable Beryllium (Be) | 2016/02/11 | 98 | 75 - 125 | 102 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Boron (B) | 2016/02/11 | 91 | 75 - 125 | 99 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Cadmium (Cd) | 2016/02/11 | 102 | 75 - 125 | 103 | 80 - 120 | <0.10 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Chromium (Cr) | 2016/02/11 | NC | 75 - 125 | 99 | 80 - 120 | <1.0 | ug/g | 0.84 | 30 | | |
| 4376795 | Acid Extractable Cobalt (Co) | 2016/02/11 | 95 | 75 - 125 | 96 | 80 - 120 | <0.10 | ug/g | 1.4 | 30 | | |
| 4376795 | Acid Extractable Copper (Cu) | 2016/02/11 | NC | 75 - 125 | 96 | 80 - 120 | <0.50 | ug/g | 0.21 | 30 | | |
| 4376795 | Acid Extractable Lead (Pb) | 2016/02/11 | 96 | 75 - 125 | 99 | 80 - 120 | <1.0 | ug/g | 0.65 | 30 | | |
| 4376795 | Acid Extractable Mercury (Hg) | 2016/02/11 | 101 | 75 - 125 | 104 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Molybdenum (Mo) | 2016/02/11 | 101 | 75 - 125 | 102 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Nickel (Ni) | 2016/02/11 | NC | 75 - 125 | 97 | 80 - 120 | <0.50 | ug/g | 0.97 | 30 | | |

QUALITY ASSURANCE REPORT(CONT'D)

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|--------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4376795 | Acid Extractable Selenium (Se) | 2016/02/11 | 98 | 75 - 125 | 102 | 80 - 120 | <0.50 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Silver (Ag) | 2016/02/11 | 99 | 75 - 125 | 101 | 80 - 120 | <0.20 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Thallium (Tl) | 2016/02/11 | 94 | 75 - 125 | 99 | 80 - 120 | <0.050 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Uranium (U) | 2016/02/11 | 99 | 75 - 125 | 102 | 80 - 120 | <0.050 | ug/g | 4.2 | 30 | | |
| 4376795 | Acid Extractable Vanadium (V) | 2016/02/11 | NC | 75 - 125 | 97 | 80 - 120 | <5.0 | ug/g | NC | 30 | | |
| 4376795 | Acid Extractable Zinc (Zn) | 2016/02/11 | NC | 75 - 125 | 98 | 80 - 120 | <5.0 | ug/g | 2.7 | 30 | | |
| 4376805 | Moisture | 2016/02/10 | | | | | | | 1.3 | 20 | | |
| 4377183 | F2 (C10-C16 Hydrocarbons) | 2016/02/10 | 98 | 50 - 130 | 97 | 80 - 120 | <10 | ug/g | NC | 30 | | |
| 4377183 | F3 (C16-C34 Hydrocarbons) | 2016/02/10 | 100 | 50 - 130 | 100 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4377183 | F4 (C34-C50 Hydrocarbons) | 2016/02/10 | 104 | 50 - 130 | 102 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4377195 | Moisture | 2016/02/10 | | | | | | | 5.1 | 20 | | |
| 4377198 | F2 (C10-C16 Hydrocarbons) | 2016/02/10 | 95 | 50 - 130 | 95 | 80 - 120 | <10 | ug/g | NC | 30 | | |
| 4377198 | F3 (C16-C34 Hydrocarbons) | 2016/02/10 | 100 | 50 - 130 | 99 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4377198 | F4 (C34-C50 Hydrocarbons) | 2016/02/10 | 106 | 50 - 130 | 104 | 80 - 120 | <50 | ug/g | NC | 30 | | |
| 4377221 | Soluble Calcium (Ca) | 2016/02/10 | | | 95 | 80 - 120 | <0.5 | mg/L | 0.055 | 30 | | |
| 4377221 | Soluble Magnesium (Mg) | 2016/02/10 | | | 93 | 80 - 120 | <0.5 | mg/L | 1.1 | 30 | | |
| 4377221 | Soluble Sodium (Na) | 2016/02/10 | | | 93 | 80 - 120 | <5 | mg/L | 0.16 | 30 | | |
| 4377291 | Conductivity | 2016/02/10 | | | 100 | 90 - 110 | <0.002 | mS/cm | 0.17 | 10 | | |
| 4377453 | Moisture | 2016/02/10 | | | | | | | 7.2 | 20 | | |

QUALITY ASSURANCE REPORT(CONT'D)

ARCADIS Canada Inc
Client Project #: 702465
Site Location: MCE - SPRINGWATER & BROUWERS
Sampler Initials: GCY

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|---|-----------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 4377557 | Moisture | 2016/02/10 | | | | | | | NC | 20 | | |
| <p>N/A = Not Applicable</p> <p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).</p> <p>(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.</p> | | | | | | | | | | | | |

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Brad Newman, Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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| | | | | | | | | | | |
|---|----------------------------------|------------------------------|---|----------------------|------------------------|---------------------------|----------------------------------|------------------------|--------------|----------------|
| Shipper | Project No.: 702465 | | Site: MCE - Springwater & Brouwers | | | | | | | |
| | Project Manager: | | B.Cooke | | | | | | | |
| | E-mail: | | Barry.Cooke@arcadis.com | | | | | | | |
| | Field Engineer/Techician: | | G.C.Yule | | | | | | | |
| | Date: 4 February, 2016 | Route: Drop Off | | | | | | | | |
| | Lab: MAXXAM | Location: Mississauga | | | | | | | | |
| Required Date: 12 February, 2016 | | Turnaround: 5 Day(s) | | | | | | | | |
| Quotation No.: | | Normal TAT | | | | | | | | |
| MDL's To Meet: | | MOECC Table 1 CSCS | | | | | | | | |
| Location/ Hole No. | Sample No. | Depth (m) | Description | Label No. | Grab/ Comp. | Date Collected | Metals & Inorganics | BTEX / FI to F4 | Other | Remarks |
| SA-1 | | | Soil | | | 16/02/04 | X | X | | |
| SA-2 | | | Soil | | | 16/02/04 | X | X | | |
| SA-3 | | | Soil | | | 16/02/04 | X | X | | |
| SA-4 | | | Soil | | | 16/02/04 | X | X | | |
| SA-5 | | | Soil | | | 16/02/04 | X | X | | |
| SA-6 | | | Soil | | | 16/02/04 | X | X | | |
| SA-7 | | | Soil | | | 16/02/04 | X | X | | |
| SA-8 | | | Soil | | | 16/02/04 | X | X | | |
| SA-9 | | | Soil | | | 16/02/04 | X | X | | |
| SA-10 | | | Soil | | | 16/02/04 | X | X | | |
| SA-11 | | | Soil | | | 16/02/04 | X | X | | |
| Relinquished By: | | Date: | Time: | Received By: | | Date: | Remarks: | | | |
| | | | | | | | ALL RESULTS ARE TO BE SENT TO TI | | | |
| Relinquished By: | | Date: | Time: | Received By: | | Date: | Laboratory | | | |
| | | | | | | | | | | |
| Relinquished By: | | Date: | Time: | Received By: | | Date: | | | | |
| | | | | | | | | | | |

Project No. and Date

(Revision 2 - 21 April 2015)

Chain of Custody Record

| Shipper | Project No.: 702465 Site: MCE - Springwater & Brouwers | | Analyses Requested | | | | | | | | | | Groundwater Analyses Required for Compliance with Ontario Drinking Water Guidelines. <u>Yes/No</u> | | | | | | | |
|---|--|-------------------|---------------------------|--------------|----------------|-----------------------|---------------------|--------------------------------|--|--|--|--|---|---|--|--|--|----|----------------------------|---------------|
| | Project Manager: B.Cooke | | | | | | | | | | | | | | | | | | | |
| | E-mail: Barry.Cooke@arcadis.com | | | | | | | | | | | | | | | | | | | |
| | Field Engineer/Technician: G.C.Yule | | | | | | | | | | | | | | | | | | | |
| | Date: 4 February, 2016 Route: Drop Off | | | | | | | | | | | | | | | | | | | |
| Lab: MAXXAM Location: Mississauga | | | | | | | | | | | | | | | | | | | | |
| Required Date: 12 February, 2016 Turnaround: 5 Day(s) | | | | | | | | | | | | | | | | | | | | |
| Quotation No.: _____ | | Normal TAT | | | | | | | | | | | | | | | | | | |
| MDL's To Meet: MOECC Table 1 SCS | | | | | | | | | | | | | | | | | | | | |
| Location/ Hole No. | Sample No. | Depth (m) | Description | Label No. | Grab/ Comp. | Date Collected | Metals & Inorganics | BTEX, FI to F4 | | | | | | | | | | pH | Electrical Conductivity | Preservatives |
| SA-23 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-24 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-25 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-26 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-27 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-27 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-28 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-29 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-30 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-31 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| SA-32 | | | Soil | | | 16/02/04 | X | X | | | | | | | | | | | | |
| Relinquished By: [Signature] | | | | | | Date: 16/02/04 | Time: 10:50 | Received By: J. WICKHAM | | | | | | Remarks: ALL RESULTS ARE TO BE SENT TO THE PROJECT MANAGER. | | | | | | |
| Relinquished By: | | | | | | Date: | Time: | Received By: | | | | | | | | | | | | |
| Relinquished By: | | | | | | Date: | Time: | Received By: | | | | | | | | | | | | |

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Project No. and Date

7/18/6 9/19/7 4/4/5 6/8/6 2016/02/04 18:33

(Revision 2 - 21 April 2015)