ASSESSMENT REPORT

2012 GEOCHEMICAL PROGRAM

on the

# Goodman Property

Mayo Mining District, Yukon Territory

**for**

# Goldspike Exploration Inc.

Claims filed for:
'MQ' 1-200 (YD94301 - YD94500),
'MQ' 201-342 (YD95501 - YD95642),
'G' 1-10 (YD155911 - YD55920),
'G' 15-74 (YD155925 - YD155984),
'GM' 1-65 (YE55601 - YE55665), and
'G' 75-78 (YD155995 - YD155998)

NTS Mapsheets: 115P16, 116A01, 106D03, 105M13
UTM Coordinates: E440000, N7088000 (NAD83, Zone 8)
Owner: Goldspike Exploration Inc.
Author: D. Ferraro, HBSc.
Dates worked performed: June 15th, 2012 to June 29th, 2012

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## 1.0 SUMMARY

An 8 day geochemical sampling program was conducted on the Goodman Property from August 26th, 2011 to September 2nd, 2011. The property is owned 100% by Goldspike Exploration Inc. and consists of 481 quartz claims located in the Mayo Mining District.

The Goodman Property is situated in the McQuesten River area, approximately 150 km ESE of Dawson City and 40 km NNW of Mayo. It can be reached by truck from Mayo via the Silver Trail Highway, McQuesten River bridge, a series of placer mining roads and an access road running along the north side of the McQuesten River. The property was accessed by truck and helicopter based from a field camp.

Geologically, the property is located in the western Selwyn Basin, a highly mineralized area east of the Tintina Fault. Numerous mineral showings and strong multi-element geochemical anomalies are related to high level, multi-phase quartz monzonite stocks of mid-Cretaceous age that intrude Upper Proterozoic to Silurian metasediments. The property is underlain by Upper Proterozoic quartzite, schist, phyllite, conglomerate, and slate. Pyrite, galena, and chalcopyrite mineralization has been observed in quartz veins hosted by quartzite and schist.

A total of 1266 soil samples, 30 silt samples, and 290 rock samples were taken over the course of the program. Follow-up in the Rodin Creek area confirmed the presence of major gold-in-soil anomalies across a 5km trend. New exploration off Goodman Creek uncovered significant mineralization in the quartzite and schist. A grid done over a stibnite showing uncovered in 2011 confirmed the presence of gold and antimony in the area. New exploration on the G claims showed sporadic, but significant gold-in-soil anomalies. Exploration on the Peso claims showed highly anomalous base metal and arsenic values.

The geological setting of the property is favourable to Carlin-style gold mineralization and high-grade vein deposits. The numerous geochemical anomalies found and confirmed in this work program have added great value to the property's potential. Due to the uncertainty of soil movement in the area, the Rodin Creek area requires a mechanical trenching program to confirm a bedrock source to the numerous and gold anomalies. Similarly, due to an absence of bedrock, IP surveys should be done on both the central grid and the Peso claims to locate the source of mineralization in these areas. With favourable survey results, a drilling program is foreseeable in these areas.

## 2.0 INTRODUCTION

This assessment report has been prepared at the request of Mr. Bruce Durham, president of Goldspike Exploration Inc. of Toronto, Ontario. The report describes the 2012 geochemical and prospecting program on the Goodman Property. Field work was performed by Druid Exploration Inc. of Dawson City, Yukon. The report text and maps were written by D. Ferraro, of Ferraro Consulting Ltd. of Woodstock, ON.

## 3.0 PROPERTY LOCATION AND ACCESS

The Goodman Property is situated in the McQuesten River area, approximately 150 km ESE of Dawson City and 40 km NNW of Mayo (Figure 1). It can be reached by truck from Mayo by taking the Silver Trail Highway, then branching west to the McQuesten River bridge. This leads to various placer mining roads on the east side of the property (Secret Creek area) and an all-weather road that extends west along the north side of the McQuesten River. The property was accessed by truck and helicopter based from a camp on Secret Creek.




Figure 1: General location of the Goodman Property (modified from NRCAN, 2006).

## 4.0 TOPOGRAPHY, VEGETATION, AND CLIMATE

The Goodman Property is situated in a lower elevation area adjacent to the McQuesten River. The McQuesten River valley is mostly at about 2000 ft elevation. Mountain peaks on the property are mostly at about 3500 ft, but reach as high as 4000 ft on the east side of the property.

Vegetation consists of evergreen and deciduous forest which dominates the slopes. The mountain tops are also vegetated due to lower elevations. Some areas of south facing slopes have sparse spruce tree covering. Bedrock exposure is quite limited across the property (1%). Only peaks on the east side have any significant outcroppings. Outcrop can also be found in the high relief creek valley in the southwest corner of the property.

The Yukon has a subarctic continental climate with a mean summer temperature of 10 degrees celcius and a mean winter temperature of -23 degrees celcius. Temperature extremes of 35 degrees and -55 degrees celcius are common in the summer and winter, respectively.



Photo 1: McQuesten River valley from the Goodman Property (facing south).

## 5.0 PROPERTY DESCRIPTION

The Goodman Property consists of 481 quartz claims in the Mayo Mining District. The 342 'MQ' claims, 65 'GM' claims, and 74 'G' claims can be found on NTS mapsheets 115P16, 116A01, 106D03, and 105M13 (see Figure 2). All claims are contiguous except for 4 'G' claims (G75-78) in the northeast corner, which are referred to the 'Peso' claims in this report. The claims are owned 100% by Goldspike Exploration Inc. of Toronto, Ontario with the exception of 31 claims in the process of transferring.

A complete list of the mining claims that make up the Goodman Property is as follows:

Table 1: Claims comprising the Goodman Property.

| Claim Name | Claim Number | Grant Number | Claim Owner (100%) | Claim Expiry Date | Status | NTS Map Number |
|---|---|---|---|---|---|---|
| MQ | 1 | YD94301 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 2 | YD94302 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 3 | YD94303 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 4 | YD94304 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 5 | YD94305 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 6 | YD94306 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 7 | YD94307 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 8 | YD94308 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 9 | YD94309 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 10 | YD94310 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 11 | YD94311 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 12 | YD94312 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 13 | YD94313 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 14 | YD94314 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 15 | YD94315 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 16 | YD94316 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 17 | YD94317 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 18 | YD94318 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 19 | YD94319 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 20 | YD94320 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 21 | YD94321 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 25 | YD94325 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |

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| MQ | 30 | YD94330 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 31 | YD94331 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 32 | YD94332 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 162 | YD94462 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 163 | YD94463 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 164 | YD94464 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 183 | YD94483 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 184 | YD94484 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 185 | YD94485 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 186 | YD94486 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 187 | YD94487 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 188 | YD94488 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 189 | YD94489 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |

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| MQ | 190 | YD94490 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 191 | YD94491 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 192 | YD94492 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 193 | YD94493 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 194 | YD94494 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 195 | YD94495 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 196 | YD94496 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 197 | YD94497 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 198 | YD94498 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 199 | YD94499 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 200 | YD94500 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 201 | YD95501 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 202 | YD95502 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 203 | YD95503 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 204 | YD95504 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 205 | YD95505 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 206 | YD95506 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 207 | YD95507 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 208 | YD95508 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 209 | YD95509 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 210 | YD95510 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 211 | YD95511 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 212 | YD95512 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 213 | YD95513 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 214 | YD95514 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 215 | YD95515 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 216 | YD95516 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 217 | YD95517 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 218 | YD95518 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 219 | YD95519 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 220 | YD95520 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 221 | YD95521 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 222 | YD95522 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 223 | YD95523 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 224 | YD95524 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 225 | YD95525 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 226 | YD95526 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 227 | YD95527 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 228 | YD95528 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 229 | YD95529 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 230 | YD95530 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |

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| MQ | 231 | YD95531 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 232 | YD95532 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 233 | YD95533 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 234 | YD95534 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 235 | YD95535 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 236 | YD95536 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 237 | YD95537 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 238 | YD95538 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 239 | YD95539 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 240 | YD95540 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 241 | YD95541 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 242 | YD95542 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 243 | YD95543 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 244 | YD95544 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 245 | YD95545 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 246 | YD95546 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 247 | YD95547 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 248 | YD95548 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 249 | YD95549 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 259 | YD95559 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 261 | YD95561 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 262 | YD95562 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 263 | YD95563 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 264 | YD95564 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 265 | YD95565 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 266 | YD95566 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 267 | YD95567 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 268 | YD95568 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 269 | YD95569 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 270 | YD95570 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 271 | YD95571 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |

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| MQ | 272 | YD95572 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 273 | YD95573 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 274 | YD95574 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 275 | YD95575 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 276 | YD95576 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 277 | YD95577 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 278 | YD95578 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 279 | YD95579 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 280 | YD95580 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 281 | YD95581 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 282 | YD95582 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 283 | YD95583 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 284 | YD95584 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 285 | YD95585 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 286 | YD95586 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 287 | YD95587 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 288 | YD95588 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 289 | YD95589 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 290 | YD95590 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 291 | YD95591 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 292 | YD95592 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 293 | YD95593 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 294 | YD95594 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 295 | YD95595 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 296 | YD95596 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 297 | YD95597 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 298 | YD95598 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
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| MQ | 300 | YD95600 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 301 | YD95601 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 302 | YD95602 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 303 | YD95603 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 304 | YD95604 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 305 | YD95605 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 306 | YD95606 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 307 | YD95607 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 308 | YD95608 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 309 | YD95609 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 310 | YD95610 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 311 | YD95611 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 312 | YD95612 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |

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| MQ | 313 | YD95613 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 314 | YD95614 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 315 | YD95615 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 316 | YD95616 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 317 | YD95617 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 318 | YD95618 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 319 | YD95619 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 320 | YD95620 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 321 | YD95621 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 322 | YD95622 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 323 | YD95623 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 324 | YD95624 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 325 | YD95625 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 326 | YD95626 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 327 | YD95627 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 328 | YD95628 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 329 | YD95629 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 330 | YD95630 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 331 | YD95631 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 332 | YD95632 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 333 | YD95633 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 334 | YD95634 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 335 | YD95635 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 336 | YD95636 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 337 | YD95637 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 338 | YD95638 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 339 | YD95639 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 340 | YD95640 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 341 | YD95641 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| MQ | 342 | YD95642 | Goldspike Exploration Inc. | 01/09/2016 | Active | 115P16 |
| G | 1 | YD155911 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 2 | YD155912 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 3 | YD155913 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 4 | YD155914 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 5 | YD155915 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 6 | YD155916 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 7 | YD155917 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 8 | YD155918 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 9 | YD155919 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 10 | YD155920 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 15 | YD155925 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |

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|---|---|---|---|---|---|---|
| G | 16 | YD155926 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 17 | YD155927 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 18 | YD155928 | *Jason Daigle** | 01/09/2017 | Active | 115P16 |
| G | 19 | YD155929 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 20 | YD155930 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 21 | YD155931 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 22 | YD155932 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 23 | YD155933 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 24 | YD155934 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 25 | YD155935 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 26 | YD155936 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 27 | YD155937 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 28 | YD155938 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 29 | YD155939 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 30 | YD155940 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 31 | YD155941 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 32 | YD155942 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 33 | YD155943 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 34 | YD155944 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 35 | YD155945 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 36 | YD155946 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 37 | YD155947 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 38 | YD155948 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 39 | YD155949 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 40 | YD155950 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 41 | YD155951 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 42 | YD155952 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 43 | YD155953 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 44 | YD155954 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 45 | YD155955 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 46 | YD155956 | Goldspike Exploration Inc. | 01/09/2017 | Active | 115P16 |
| G | 47 | YD155957 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 48 | YD155958 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 49 | YD155959 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 50 | YD155960 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 51 | YD155961 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 52 | YD155962 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 53 | YD155963 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 54 | YD155964 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 55 | YD155965 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 56 | YD155966 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |

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|---|---|---|---|---|---|---|
| G | 57 | YD155967 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 58 | YD155968 | Goldspike Exploration Inc. | 01/09/2017 | Active | 105M13 |
| G | 59 | YD155969 | *Richard Daigle** | 01/09/2017 | Active | 116A01 |
| G | 60 | YD155970 | *Richard Daigle** | 01/09/2017 | Active | 116A01 |
| G | 61 | YD155971 | *Richard Daigle** | 01/09/2017 | Active | 116A01 |
| G | 62 | YD155972 | *Richard Daigle** | 01/09/2017 | Active | 116A01 |
| G | 63 | YD155973 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 64 | YD155974 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 65 | YD155975 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 66 | YD155976 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 67 | YD155977 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 68 | YD155978 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 69 | YD155979 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 70 | YD155980 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 71 | YD155981 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 72 | YD155982 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 73 | YD155983 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 74 | YD155984 | *Richard Daigle** | 01/09/2017 | Active | 115P16 |
| G | 75 | YD155995 | Goldspike Exploration Inc. | 01/09/2017 | Active | 106D04 |
| G | 76 | YD155996 | Goldspike Exploration Inc. | 01/09/2017 | Active | 106D04 |
| G | 77 | YD155997 | Goldspike Exploration Inc. | 01/09/2017 | Active | 106D04 |
| G | 78 | YD155998 | Goldspike Exploration Inc. | 01/09/2017 | Active | 106D04 |
| GM | 1 | YE55601 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 2 | YE55602 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 3 | YE55603 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 4 | YE55604 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 5 | YE55605 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 6 | YE55606 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 7 | YE55607 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 8 | YE55608 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 9 | YE55609 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 10 | YE55610 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 11 | YE55611 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 12 | YE55612 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 13 | YE55613 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 14 | YE55614 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 15 | YE55615 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 16 | YE55616 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 17 | YE55617 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 18 | YE55618 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 19 | YE55619 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |

| | | | | | | |
|---|---|---|---|---|---|---|
| GM | 20 | YE55620 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 21 | YE55621 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 22 | YE55622 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 23 | YE55623 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 24 | YE55624 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 25 | YE55625 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 26 | YE55626 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 27 | YE55627 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 28 | YE55628 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 29 | YE55629 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 30 | YE55630 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 31 | YE55631 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 32 | YE55632 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 33 | YE55633 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 34 | YE55634 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 35 | YE55635 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 36 | YE55636 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 37 | YE55637 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 38 | YE55638 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 39 | YE55639 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 40 | YE55640 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 41 | YE55641 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 42 | YE55642 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 43 | YE55643 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 44 | YE55644 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 45 | YE55645 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 46 | YE55646 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 47 | YE55647 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 48 | YE55648 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 49 | YE55649 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 50 | YE55650 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 51 | YE55651 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 52 | YE55652 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 53 | YE55653 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 54 | YE55654 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 55 | YE55655 | Goldspike Exploration Inc. | 21/02/2017 | Active | 115P16 |
| GM | 56 | YE55656 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 57 | YE55657 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 58 | YE55658 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 59 | YE55659 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 60 | YE55660 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |

| | | | | | | |
|---|---|---|---|---|---|---|
| GM | 61 | YE55661 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 62 | YE55662 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 63 | YE55663 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 64 | YE55664 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |
| GM | 65 | YE55665 | Goldspike Exploration Inc. | 21/02/2017 | Active | 105M13 |

*In process of being transferred to Goldspike Exploration Inc.

# Goodman Property

Fig. 2: Claim Location Map

Goldspike Exploration Inc.

Goodman Creek area,
Mayo Mining District

**Legend**

- 'MQ' claims
- 'G' claims
- 'GM' claims
- Yukon quartz claims

N

1:35,000

0 650 1,300 2,600 3,900 5,200
Meters

Date: October, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

## 6.0 PROPERTY HISTORY

There is very little previous hard rock exploration on the Goodman Property, but the area has a rich history of placer mining reaching back to the 1890s. Specifically Secret Creek and Goodman Creek have shown placer production up to the present day.

The southwest of the property was staked as the Rodin claims in 1963 and restaked as the RC claims in 1994. No work was done (Minfile 115P005). The SECRET Minfile occurrence located on Secret Creek was explored as a tin-tungsten prospect by Canada Tungsten Mining Corp. and Queenstake Resources Ltd. in 1978, based on government stream sediment geochemistry (Minfile 115P028). A geochemical survey of the SECRET property included 211 silt and 265 one metre-deep auger soil samples in an area described as largely overburden and brush-covered. Canada Tungsten's assessment report considered gold values over 10 ppb to be anomalous for the area, and identified three areas of anomalous gold in silt with values of 70 to 140 ppb Au. The gold was inferred to be related to east-northeast extensional faults that are contemporaneous with intrusive activity in the area (Bremner, 2010).

The Peso claims are adjacent to the historic Peso Silver Mine which operated throughout the 1960s mining a series of 1-5m quartz veins hosting Ag-Pb-Zn-Sb mineralization.

The Property borders Victoria Gold's DUB claims, termed the Dublin Gulch Property. Victoria Gold has loosely defined the 'Potato Hills trend', a 20 km long, ENE zone of mineralization. This trend hosts the Eagle Gold Project (3 km east of Goodman). Recent drilling at Eagle has defined an indicated mineral resource of 4.8 million ounces gold. Victoria Gold has also conducted drilling at Rex-Peso, adjacent to Goldspike's Peso claims (G75 -78), showing 27.44m of 382 g/t Ag along with numerous grab samples up to 3 g/t Au and <6000 g/t Ag (Mosher and Triebel, 2011).

Goldspike Exploration holds the Seattle Property (SEA claims) 2km south of the Goodman Property which has been actively explored since 2011.

## 7.0 GEOLOGY

### 7.1 Regional Geology

The Clear Creek-McQuesten River region is a highly mineralized area east of the Tintina Fault. Numerous mineral showings and strong multi-element geochemical anomalies are related to high level, multi-phase quartz monzonite stocks of mid-Cretaceous age that intrude Upper Proterozoic to Silurian metasediments. Showings in the area, as well as regional silt geochemistry and industry soil sampling, demonstrate a strong correlation between gold, arsenic, antimony, tungsten and bismuth, typical of Tintina Gold Belt type intrusive hosted gold

targets. Major deposits in the area include Red Mountain (18km WNW of Goodman, molybdenum-copper-gold porphyry), Dublin Gulch (15km ENE, gold-bearing sheeted quartz veins), and Scheelite Dome (10km south, gold-bearing quartz veins).

The Property is located in the western Selwyn Basin, a fault controlled epicratonic basin. The stratigraphy in the area can be categorized into four, predominantly clastic lithological units. From youngest to oldest they are: the Lower Schist (Mesozoic), Keno Hill Quartzite (Paleozoic), Upper Schist (Paleozoic, Devonian-Mississippian), and the Hyland Group, formerly the Grit Unit (Upper Proterozoic). These units have been juxtaposed by laterally extensive, northward-directed thrusting that occurred in early Cretaceous time.

### 7.2 Property Geology

The Goodman Property is underlain by Upper Proterozoic quartzite, schist, phyllite, and conglomerate. A large slate unit is mapped by Muphy and Heon (1996) covering the northwestern edge of the property (Figure 3). Various thin units of limestone are also mapped throughout the region. Small, <500m, units of Lower Tertiary porphyry/rhyolite units are mapped adjacently east to the Peso claims

The MQ claims cover active and historic placer claims in Goodman Creek, Rodin Creek, and an unnamed east-flowing tributary of Secret Creek, as well as one 98th percentile (46 ppb) and three 95th percentile (26, 18 and 17 ppb) gold silt anomalies in unnamed tributaries of the McQuesten River, Red Creek, and Secret Creek. These gold placers and silt anomalies drain in all directions from an east-northeast trending ridge system that is approximately on trend with the Dublin Gulch deposit, and is underlain by the same Hyland Group metamorphic rocks that host the Dublin Gulch deposit (Bremner, 2010).

Observations during the 2011 and 2012 work program revealed the property is dominated by quartzite and muscovite-chlorite schists. Slate and limestone outcrops were observed in northwest of the property. Schists are generally well foliated and display varying degrees of deformation. Isoclinal folds are commonly observed where outcrop is available. On the west side of the property, the metasediments appear to strike ENE and dip shallowly to the north. To the east, the strike and dip tends to be more EW while still dipping shallowly to the north.

Quartz veining is consistent in outcrop and in angular boulders throughout the property. Veins have been observed as wide as 2 ft thick. Stockwork was also found in boulders east of Goodman Creek. Rocks are generally well oxidized, rusty, and weathered. Pyrite mineralization is fairly common in the quartz veins and wallrock. Galena, pyrite, chalcopyrite, and scorodite was observed in the southwest of the property in quartz veins within mica-graphite schist as well as in a tributary of Goodman Creek. A new showing of stibnite mineralization with sulfur was discovered in the quartzites near Haggart Creek.

Medium grained, equigranular, pink granite boulders were observed on the east area of the property near Haggart Creek.

# Goodman Property

Fig. 3: Bedrock Geology Map

Goldspike Exploration Inc.

Goodman Creek area,
Mayo Mining District

**Legend**

- 'MQ' claims
- 'G' claims
- 'GM' claims

**Bedrock Geology**

**Lithology**

- shale/siltstone/sandstone/limestone
- phyllite/shale/sandstone/grit/conglomerate
- siltstone/sandstone/conglo
- flows/tuffs/plugs/chert
- shale/quartzite
- slate
- limestone
- porphyry/rhyolite
- Fault lines

1:50,000

0 1,000 2,000 4,000 6,000 8,000 Meters

Date: March, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

## 8.0 2011 WORK PROGRAM

### 8.1 Sampling Method and Approach

A 12 day geochemical sampling program was conducted on the Goodman Property between June 15th, 2012 and June 29th, 2012. Working out of a camp, a crew of 6 soil samplers, 2 prospectors and one geologist collected 1266 soil samples, 30 silt samples, and 290 rock samples (see Figure 4 for sample locations). A Hughs 500D helicopter was used for the duration of the program.

A ridge and spur soil sampling program was planned before field work was conducted. Using ArcGIS, soil sample traverses were plotted at 50m spacings and downloaded onto samplers' GPS units. Once in the field, samplers used Dutch augurs to collect an adequate soil sample from the 'C' horizon, placing it in a Kraft paper bag, marking the location with GPS, and marking the location with flagging tape labeled with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. The GPS units were downloaded daily for plotting in ArcGIS. Soil samples were hung up to dry, then packed and shipped to the lab. Soil sample descriptions can be found in Appendix I.

Silt samples were taken in major creeks and tributaries. A low energy zone of the stream was located and a collapsible shovel, pan, or hand was used to collect a sample. Sample locations were marked with a GPS unit and flagged with the sample number. Sample conditions, environment and attributes were recorded in a field notebook. Silt sample descriptions can be found in Appendix II.

Rock samples were taken based on mineralogy, structure and lithology. Due to the lack of outcrop on the property, many samples were taken by digging small pits and sampling the talus. Samples were placed inside labeled plastic poly bags with the corresponding sample tag. Sample descriptions were recorded in a field notebook and the location recorded by GPS unit. Sample locations were marked with flagging tape labeled with the sample number. Rock sample descriptions can be found in Appendix III.

### 8.2 Sample Preparation, Analysis, and QA/QC

The soil and silt samples were dried at 60° C and sieved to -80 mesh (<177 microns). A 15.0 gram sub-sample was digested in hot (95° C) aqua regia (HCl-HNO3-H2O); following this, the samples were analysed by inductively-coupled plasma mass spectrometry (ICP-MS) techniques (Acme's Group 1DX2). Multi-elemental analysis of 36 elements was made.

The rock samples were crushed, split to 250 g, pulverized, and a split was sieved to -200 mesh. The same analytical procedure (Acme's Group 1DX2) was used.

Quality control samples from the lab include control blanks, duplicates and standards. Sample blanks (BLK), pulp duplicates and standards (STD DS8) were run with the batch analysis; no problems were noted with analytical accuracy or precision.

### 8.3 Results

The 2012 work program had two objectives. The first was to follow-up on results of the 2011 program, specifically in the Rodin Creek area (west side) and the central area where a new stibnite with gold showing was found. The second was to explore the new G and GM claims added to the east side of the property along Secret Creek and the Peso area. Figures 5 to 8 display results of significant elements on the Goodman Property.

Follow-up in the Rodin Creek area showed consistent gold-in-soil values up to 234 ppb Au all along the slope. Unfortunately, there is no bedrock exposure in this area. Hand pits were dug around 2011 soil anomalies and chip samples were taken. Prospective pyrite mineralization in quartzite talus was uncovered in these pits; however these rock samples failed to yield significant gold values.

A soil sampling grid was planned around the area of the stibnite showing uncovered in 2011 (rock samples of >2000 ppm Sb and up to 390 ppb Au). Soil samples from this area showed highly anomalous antimony and gold (over 200 ppm Au) with associated Pb, Zn, and As. Prospecting on the very limited outcrop in the area uncovered new areas of pyrite, galena, and stibnite mineralization, but the highest gold value yielded by rock sampling in this area was 98.4 ppb Au (sample 1206611).

Exploration on the new G and GM claims in the Secret Creek area showed sporadic highly anomalous gold-in-soil results, but failed to yield significant rock sample results. Prospecting at the peak of the north arm of the G claims uncovered metamorphosed porphyry/rhyolite with bornite and malachite mineralization.

The Peso claims (G75-78) are adjacent to the entrance of a 3km adit part of the historic Peso Silver Mine. Soil sampling results show highly anomalous Sb, Pb, Zn, and Ag across the 4 claims. There is no outcrop on the property, so talus and chips were sampled from hand dug pits. Rock sampling showed anomalous base metals and arsenic, but no significant results.

In addition to the above targets, two previously unexplored tributaries on the east side of Goodman Creek were covered. High topographic relief in this area allows for outcrop exposure rarely seen on the property. Quartzites overlain by schists are intruded by a series of 10-30cm quartz veins hosting pyrite, galena, and chalcopyrite mineralization. Sample 1205659 displays this mineralization in a 10 cm quartz vein (Photo 2). Sample 1237590 yielded 588 ppb Au. This particular sample is of quartzite with fine sulphides in the groundmass and a notable absence of quartz (Photo 3).

Soil, silt, and rock results can be found in appendices IV through VI.

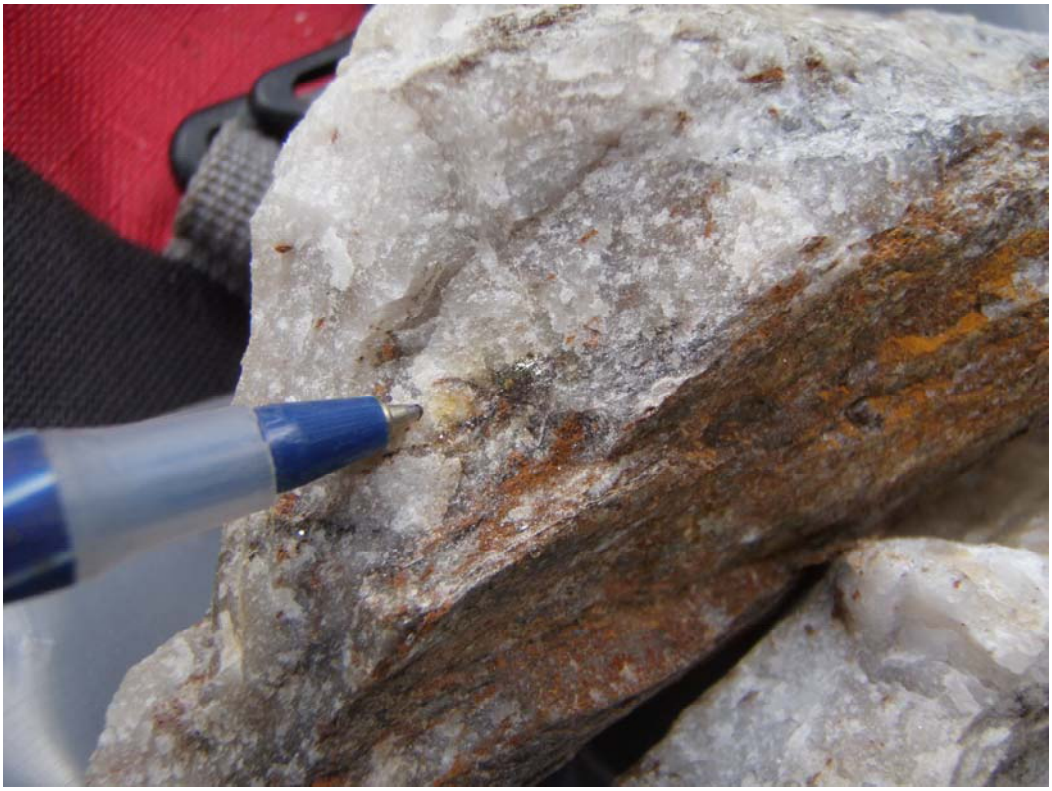


Photo 2: Sample 1205659 displays chalcopyrite and fine galena mineralization in a 10cm quartz vein intruding quartzite. Sample assayed 159 ppm Cu, 915 ppm Pb, 332 ppm Zn.



Photo 3: Sample 1235790 yielded 588 ppb Au in quartzite with fine sulphides in the groundmass.

# Goodman Property

Fig. 4a: Sample Location Map
Goodman West

Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

- Soil samples
- Silt samples
- Rock samples
- Goodman Property

1:20,000

0 380 760 1,520 2,280 3,040 Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

434000 436000 438000 440000 442000 444000

7092000 7090000 7088000 7086000 7084000

Red Creek
Goodman Creek
Rodin Creek
South McQuesten River
Seattle Creek

# Goodman Property

Fig. 4b: Sample Location Map
Goodman East

Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

- Rock samples
- Silt samples
- Soil samples
- Goodman Property

1:20,000

0 380 760 1,520 2,280 3,040
Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

# Goodman Property

Fig. 4c: Sample Location Map
Central Grid

Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

- Soil samples
- Rock samples
- Silt samples
- Goodman Property

N

1:5,000

0 95 190 380 570 760
Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

# Goodman Property

Fig. 5: Sample Geochemisty
Gold
Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

**Soil samples**

**Au (ppb)**

- 0.5 - 10.0
- 10.1 - 20.0
- 20.1 - 50.0
- 50.1 - 100.0
- 100.1 - 234.7

**Rock samples**

**Au (ppb)**

- 0.5 - 10.0
- 10.1 - 50.0
- 50.1 - 100.0
- 100.1 - 250.0
- 250.1 - 588.4

**Silt samples**

**Au (ppb)**

- 0.6 - 5.0
- 5.1 - 10.0
- 10.1 - 18.8

Goodman Property

1:30,000

0 550 1,100 2,200 3,300 4,400
Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

# Goodman Property

Fig. 6: Sample Geochemisty
Silver
Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

**Soil samples**

**Ag (ppm)**

- 0.1
- 0.11 - 0.5
- 0.51 - 1.00
- 1.10 - 3.00
- 3.10 - 6.30

**Rock samples**

**Ag (ppm)**

- 0.1 - 0.5
- 0.51 - 1.0
- 1.1 - 3.0
- 3.1 - 6.0
- 6.1 - 9.7

Goodman Property

N

1:30,000

0 550 1,100 2,200 3,300 4,400 Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

436000 438000 440000 442000 444000 446000 448000 450000 452000

7098000 7096000 7094000 7092000 7090000 7088000 7086000 7084000

North McQuesten River
Red Creek
Secret Creek
Haggart Creek
Goodman Creek
Rodin Creek
South McQuesten River
Bighorn Creek
Ross Creek

# Goodman Property

## Fig. 7: Sample Geochemisty Arsenic
## Goldspike Exploration Inc.
## Goodman Creek area
## Mayo Mining District

**Legend**

**Soil samples**

**As (ppm)**

- 2.3 - 20.0
- 20.1 - 50.0
- 50.1 - 100.0
- 100.1 - 400.0
- 400.1 - 738.1

**Rock samples**

**As (ppm)**

- 0.5 - 20.0
- 20.1 - 50.0
- 50.1 - 200.0
- 200.1 - 500.0
- 500.1 - 1084.5

**Silt samples**

**As (ppm)**

- 4.3 - 20.0
- 20.1 - 40.0
- 40.1 - 82.7

Goodman Property

1:30,000

0 550 1,100 2,200 3,300 4,400

Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

436000 438000 440000 442000 444000 446000 448000 450000 452000

7098000 7096000 7094000 7092000 7090000 7088000 7086000 7084000

North McQuesten River
North McQuesten River
North McQuesten River
Red Creek
Red Creek
Red Creek
Red Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Haggart Creek
Haggart Creek
Goodman Creek
Goodman Creek
Rodin Creek
South McQuesten River
South McQuesten River
South McQuesten River
Haggart Creek
Bighorn Creek
Ross Creek

# Goodman Property

Fig. 8: Sample Geochemisty
Antimony
Goldspike Exploration Inc.

Goodman Creek area
Mayo Mining District

**Legend**

**Soil samples**

**Sb (ppm)**

- 0.1 - 2.0
- 2.1 - 5.0
- 5.1 - 10.0
- 10.1 - 100.0
- 100.1 - 782.3

**Rock samples**

**Sb (ppm)**

- 0.1 - 20.0
- 20.1 - 50.0
- 50.1 - 100.0
- 100.1 - 200.0
- 200.1 - 424.9

**Silt samples**

**Sb (ppm)**

- 0.3 - 5.0
- 5.1 - 10.0
- 10.1 - 26.3

Goodman Property

1:30,000

0 550 1,100 2,200 3,300 4,400
Meters

Date: November, 2012
Mapsheets: 115P16, 116A01, 106D03,105M13
Datum: UTM NAD83 Zone 8

436000 438000 440000 442000 444000 446000 448000 450000 452000

7098000 7096000 7094000 7092000 7090000 7088000 7086000 7084000

North McQuesten River
North McQuesten River
North McQuesten River
Red Creek
Red Creek
Red Creek
Red Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Secret Creek
Haggart Creek
Haggart Creek
Goodman Creek
Goodman Creek
Rodin Creek
South McQuesten River
South McQuesten River
South McQuesten River
Haggart Creek
Bighorn Creek
Ross Creek

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

The Goodman Property is located in a geological setting favourable to gold mineralization. Although little evidence for a large intrusive body has been observed on the property, there is still potential for Carlin-style mineralization in the Upper Proterozoic-Lower Cambrian Hyland Group rocks as well as high-grade vein deposits.

Follow-up sampling in the Rodin Creek area on the west side of the property confirm a large, 5km, potentially NNE anomalous gold trend. Outcrop observations in this area support a NE strike in the metasediments. Although gold-in-soil anomalies are numerous and significant, hand-dug pits accomplished little to confirm the absence of a hard rock source. Soil slumping from the peak of the mountain may account for some results down slope. To truly investigate this area, a Can-Dig machine should be brought in and trenches should be dug across the mountain at various intervals.

Gridding around the stibnite showing in the central area of the property showed numerous gold and base metal anomalies but did not confirm any one source of mineralization. This area has also likely seen soil movement and glaciation in the past. An IP survey in this area would help to pinpoint mineralization and give a potential target for drilling.

The Peso claims lie next to the historic Peso Silver Mine and are within Victoria Gold's Potato Hills trend. It is likely that the veins mined in the 1960s occur on these claims. Soil sampling shows significant anomalous base metals. However, due to the complete absence of outcrop, it is difficult to locate a source. An IP survey would be crucial to finding a bedrock source of the soil anomalies.

Other significant gold anomalies are present all over the G claims in the Secret Creek area, but no notable trend can be defined. Some of the results closer to Secret Creek may be attributed to placer gold contamination.

It is also notable that a distinctive antimony signature exists on the property. When plotted with 2011 results, there appears to be a NE trending cut-off to the antimony signature. This indicates there are two structural controls at work in the area. The ENE Potato Hills trend which hosts Victoria Gold's Eagle Gold deposit and the NE control of the antimony and base metal mineralization.

In summary, the Goodman Property has great potential for a gold discovery. Soil sampling and prospecting have shown numerous prospective areas. The next step is to mechanically trench the west side and to conduct IP surveys on the central grid and the Peso claims.

## REFERENCES


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Yukon Minfile 115P005 (1996): RODIN, Yukon Geological Survey.

Yukon Minfile 115P028 (1996): SECRET, Yukon Geological Survey.

## STATEMENT OF EXPENDITURES

**Costs associated with the Goodman Property**
**Worked between June 15th and June 29th, 2012**
**Property worked 10 days, plus camp mob/demob**

| | | | |
|---|---|---|---|
| WAGES | 6 samples/junior geos | 350/day | $29,400.00 |
| | 1 prospector | 400/day | $4,000.00 |
| | cook | 350/day | $1,900.00 |
| | 1 geologist | 500/day | $5,000.00 |
| TRANSPORT | helicopter | 975/hr | $11,212.00 |
| | helicopter fuel | | $2,300.00 |
| | truck fuel | | $650.00 |
| | truck rental | (half of total rental) | $3,400.00 |
| ASSAYS | soil sample assay | $18x1180 samples | $21,240.00 |
| | silt sample assay | $18x29 samples | $522.00 |
| | rock sample assay | $24x269 samples | $6,456.00 |
| CAMP COSTS | food | 35/man/day | $4,900.00 |
| | camp gear and crew gear (generators, fuel drums, propane tanks, water pumps, water tank, hose, batteries, water heater, fridge, freezer, sinks, bbq, kitchen utensils, augers, gold pans, mesh seives, radios, gps, chopper flags, compasses, backpacks, hammers) | | $8,000.00 |
| | consumables (sample bags, tape, AA batteries, pens, markers, flagging tape, sample books, tags, bug spray) | | $1,000.00 |
| | tents and accomodations (8 canvas wall tents, frames, floors, cots, stoves, chimneys, tarps) | | $8,000.00 |
| | safety gear (fire extinguishers, shotgun, signage, stretcher, neck brace, oxygen tank, spill kit, first aid kits, bear spray, bear bangers) | | $1,500.00 |
| | communications (satellite internet, satellite phone) | | $500.00 |
| | assessment report | | $2,500.00 |
| | maps and drafting | 6*$100 | $600.00 |
| | | | |
| | **TOTAL** | | **$113,080.00** |

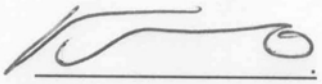
**Costs associated with the Peso area of the Goodman Property**
**Claims 'G' 75 - 78**
**Worked June 17th and 28th of 2012**

| ITEM | UNIT PRICE | COST |
|---|---|---|
| 3 soil sampling man days | 300/day | $900.00 |
| 1 prospector | 400/day | $400.00 |
| 1 geologist | 500/day | $500.00 |
| truck fuel | | $100.00 |
| truck rental | 150/day | $300.00 |
| soil sample assay | $18x86 samples | $1,548.00 |
| silt sample assay | $18x1 sample | $18.00 |
| rock sample assay | $24x17 samples | $408.00 |
| assessment report | | $1,500.00 |
| food | 35/man | $175.00 |
| consumables | | $200.00 |
| camp gear, crew gear | | $1,000.00 |
| accommodation rental | | $800.00 |
| safety gear | | $100.00 |
| | | |
| **TOTAL** | | **$7,949.00** |

## CERTIFICATE OF QUALIFICATIONS

I, Daniel Ferraro, of 835 Berkshire Dr., Woodstock, Ontario, Canada, certify that:

1. I am a graduate of Lakehead University, 2008, and a hold an H. B.Sc. Geology degree.
2. I am an independent geological consultant.
3. I am a member of the Ontario Prospectors Association (2010).
4. I have been employed as a geological assistant for the Ontario Geological Survey and the Geological Survey of Canada during the summers of, respectively, 2006 and 2007.
5. I have been working in the mineral exploration industry since 2008 for Pacific North West Capital Corporation, East West Resources Corporation, Rainy Mountain Royalty Corporation, Black Panther Mining Corporation, White Tiger Mining Corporation, Trillium North Minerals Ltd., Nebu Resources Inc., and Goldspike Exploration Inc.
6. This report was prepared by myself.
7. I have no personal knowledge from the date of this certificate of any material fact or change not reflected in this report.



Daniel Ferraro, H.B.Sc.

Date: Jan. 3rd, 2013

Appendix I: Soil Sample Descriptions

# Goodman Property Sample Descriptions

UTM NAD 83 Zone 8

**SOIL SAMPLES**

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238601 | 449367 | 7093769 | 1140 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238602 | 449410 | 7093737 | 1137 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | | 20 | 80 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238603 | 449474 | 7093716 | 1132 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238604 | 449511 | 7093700 | 1128 | 15-Jun-12 | MQ | 30-40 | c | lt grey | | | 100 | | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238605 | 449569 | 7093683 | 1122 | 15-Jun-12 | MQ | 20-30 | c | lt grey | | | 5 | 95 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238606 | 449612 | 7093670 | 1117 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238607 | 449656 | 7093653 | 1115 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238608 | 449710 | 7093644 | 1111 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238609 | 449752 | 7093661 | 1109 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238610 | 449797 | 7093688 | 1109 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238611 | 449848 | 7093697 | 1104 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238612 | 449893 | 7093726 | 1099 | 15-Jun-12 | MQ | 20-30 | c | lt brown | | | | 70 | 30 | | weathered bedrock | saturated | evergreen forest | ridge top |
| 1238613 | 449914 | 7093760 | 1098 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238614 | 449948 | 7093804 | 1092 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238615 | 449990 | 7093826 | 1082 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238616 | 450020 | 7093863 | 1073 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238617 | 450032 | 7093914 | 1065 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238618 | 450035 | 7093961 | 1056 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238619 | 450054 | 7094005 | 1040 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238620 | 450057 | 7094061 | 1022 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238621 | 450073 | 7094107 | 999 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238622 | 450090 | 7094161 | 977 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238623 | 450110 | 7094210 | 955 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238624 | 450120 | 7094262 | 938 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238625 | 450109 | 7094310 | 925 | 15-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238626 | 450111 | 7094359 | 913 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238627 | 450116 | 7094415 | 895 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238628 | 450108 | 7094458 | 884 | 15-Jun-12 | MQ | 10-20 | c | lt brown | | | | 100 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238629 | 450191 | 7094438 | 867 | 15-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238630 | 450274 | 7094401 | 848 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238631 | 450326 | 7094384 | 840 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238632 | 450378 | 7094355 | 828 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238633 | 450433 | 7094340 | 818 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | 85 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238634 | 450489 | 7094336 | 803 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238635 | 450536 | 7094303 | 786 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | 80 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238636 | 450585 | 7094309 | 769 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238637 | 450811 | 7093925 | 818 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238638 | 450855 | 7093936 | 805 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 35 | | 65 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238639 | 449598 | 7093540 | 1096 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238640 | 449691 | 7093525 | 1094 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238641 | 449793 | 7093506 | 1087 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238642 | 449901 | 7093489 | 1073 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238643 | 449993 | 7093466 | 1051 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 90 | 10 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238644 | 450093 | 7093433 | 1020 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238645 | 450190 | 7093423 | 993 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238646 | 450384 | 7093383 | 931 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | 90 | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238647 | 450483 | 7093356 | 906 | 16-Jun-12 | MQ | 40-50 | c | dk grey | | | | 70 | 30 | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238648 | 450580 | 7093337 | 894 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 60 | 30 | 10 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238649 | 450680 | 7093327 | 883 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238650 | 450785 | 7093315 | 866 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238651 | 450881 | 7093312 | 855 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238652 | 450977 | 7093287 | 840 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238653 | 451033 | 7093291 | 834 | 16-Jun-12 | MQ | 70-80 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238654 | 451080 | 7093280 | 828 | 16-Jun-12 | MQ | 60-70 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238655 | 451127 | 7093285 | 824 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 50 | 50 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238656 | 451177 | 7093268 | 820 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238657 | 451219 | 7093251 | 814 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238658 | 451269 | 7093250 | 808 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238659 | 451328 | 7093240 | 800 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238660 | 451366 | 7093208 | 792 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238661 | 451423 | 7093199 | 795 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238662 | 451471 | 7093181 | 805 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238663 | 451517 | 7093187 | 815 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238664 | 451552 | 7093165 | 794 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 100 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238665 | 451607 | 7093148 | 771 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | 10 | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238666 | 451656 | 7093135 | 753 | 16-Jun-12 | MQ | 80+ | c | lt brown | | | | 100 | | | weathered bedrock | dry | evergreen forest | bench |
| 1238667 | 451700 | 7093108 | 724 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238668 | 451752 | 7093084 | 700 | 16-Jun-12 | MQ | 80+ | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238669 | 451804 | 7093081 | 683 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238670 | 451518 | 7098875 | 894 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238671 | 451533 | 7098825 | 880 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 70 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238672 | 451529 | 7098775 | 871 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | 70 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238673 | 451540 | 7098723 | 860 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238674 | 451532 | 7098681 | 852 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238675 | 451538 | 7098634 | 837 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238676 | 451548 | 7098586 | 824 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238677 | 451540 | 7098535 | 815 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238678 | 451565 | 7098491 | 806 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238679 | 451593 | 7098441 | 798 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238680 | 451657 | 7098412 | 792 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238681 | 451680 | 7098373 | 799 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | | | | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238682 | 451701 | 7098322 | 808 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | | | | | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238683 | 451720 | 7098300 | 817 | 17-Jun-12 | MQ | 30-40 | c | grey | | | | | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238684 | 451756 | 7098282 | 835 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238685 | 451809 | 7098275 | 864 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238686 | 451867 | 7098277 | 885 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | 50 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238687 | 451928 | 7098269 | 905 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238688 | 451976 | 7098278 | 916 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | | | | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238689 | 452031 | 7098280 | 930 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238690 | 452084 | 7098270 | 943 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | 50 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238691 | 452137 | 7098258 | 955 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238692 | 452190 | 7098253 | 973 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238693 | 452247 | 7098247 | 995 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 25 | 25 | 25 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238694 | 452319 | 7098190 | 1030 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | | 25 | 25 | 25 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238695 | 448875 | 7091679 | 773 | 18-Jun-12 | MQ | 40-50 | c | lt grey | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | ridge top |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238696 | 448861 | 7091702 | 776 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238697 | 448838 | 7091714 | 771 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238698 | 448809 | 7091689 | 764 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238699 | 448789 | 7091665 | 758 | 18-Jun-12 | MQ | 70-80 | c | lt brown | | | | 80 | 20 | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238700 | 448819 | 7091638 | 754 | 18-Jun-12 | MQ | 50-60 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238701 | 448841 | 7091626 | 752 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238702 | 448872 | 7091641 | 761 | 18-Jun-12 | MQ | 70-80 | c | lt brown | | | | 70 | 30 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238703 | 448823 | 7091792 | 775 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | | | 100 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238704 | 448800 | 7091762 | 771 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238705 | 448777 | 7091725 | 766 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238706 | 448745 | 7091685 | 761 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 70 | 30 | | weathered bedrock | saturated | evergreen forest | valley bottom |
| 1238707 | 448744 | 7091633 | 758 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | | | 80 | 20 | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238708 | 449002 | 7091689 | 740 | 18-Jun-12 | MQ | 40-50 | c | dk brown | | | | 40 | 60 | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238709 | 448990 | 7091651 | 737 | 18-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 60 | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238710 | 448961 | 7091602 | 739 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238711 | 448927 | 7091555 | 740 | 18-Jun-12 | MQ | >80 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238001 | 450265 | 7097180 | 1045 | 15-Jun-12 | MQ | 10-20 | b | lt brown | | | | 20 | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238002 | 450189 | 7097114 | 1023 | 15-Jun-12 | MQ | 10-20 | b | lt brown | | | 10 | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238003 | 450115 | 7097047 | 1003 | 15-Jun-12 | MQ | 10-20 | b | lt brown | | | 20 | | | 80 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238004 | 450032 | 7096981 | 979 | 15-Jun-12 | MQ | 20-30 | b/c | y/orange | | | | | | 100 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238005 | 449992 | 7096890 | 966 | 15-Jun-12 | MQ | 20-30 | c | y/orange | | | | | | 100 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238006 | 449940 | 7096808 | 935 | 15-Jun-12 | MQ | 20-30 | c | y/orange | | | 10 | | | 90 | weathered bedrock | wet | deciduous forest | ridge top |
| 1238007 | 449940 | 7096687 | 937 | 15-Jun-12 | MQ | 20-30 | c | black | | 40 | | | | 60 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238008 | 449916 | 7096608 | 929 | 15-Jun-12 | MQ | 20-30 | c | black | | 40 | | | | 60 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238009 | 449901 | 7096515 | 930 | 15-Jun-12 | MQ | 20-30 | b/c | y/orange | | | 10 | | | 90 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238010 | 449900 | 7096414 | 919 | 15-Jun-12 | MQ | 10-20 | b | dk brown | | | | | 50 | 50 | weathered bedrock | wet | deciduous forest | ridge top |
| 1238011 | 449871 | 7096311 | 900 | 15-Jun-12 | MQ | 0-10 | c | dk brown | | 20 | | 30 | 50 | | weathered bedrock | moist | deciduous forest | ridge top |
| 1238012 | 449870 | 7096217 | 884 | 15-Jun-12 | MQ | 10-20 | c | black | | 20 | 20 | | | 60 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238013 | 449847 | 7096112 | 860 | 15-Jun-12 | MQ | 10-20 | c | greenish grey | | 10 | 20 | 70 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238014 | 449838 | 7096011 | 849 | 15-Jun-12 | MQ | 0-10 | c | black | | | 60 | 40 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238015 | 449832 | 7095911 | 842 | 15-Jun-12 | MQ | 10-20 | c | black | | | 20 | 60 | | 20 | weathered bedrock | dry | evergreen forest | ridge top |
| 1238016 | 449820 | 7095817 | 823 | 15-Jun-12 | MQ | 10-20 | c | black | | | 40 | | 60 | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238017 | 449827 | 7095698 | 805 | 15-Jun-12 | MQ | 10-20 | c | black | | | 20 | | 80 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238018 | 449791 | 7095620 | 792 | 15-Jun-12 | MQ | 0-10 | c | dk brown | | 20 | | | 60 | 20 | weathered bedrock | dry | evergreen forest | ridge top |
| 1238019 | 449759 | 7095524 | 773 | 15-Jun-12 | MQ | 0-10 | c | black | | | | 20 | | 80 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238020 | 449765 | 7095376 | 726 | 15-Jun-12 | MQ | 010-20 | b/c | lt brown | | 30 | 20 | 50 | | | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238021 | 449787 | 7095325 | 717 | 15-Jun-12 | MQ | 50-60 | c | y/orange | | | 20 | 10 | | 70 | weathered bedrock | moist | buck brush | valley bottom |
| 1238022 | 449315 | 7093610 | 1133 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | | 30 | | | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238023 | 449323 | 7093507 | 1114 | 16-Jun-12 | MQ | 20-30 | c | y/orange | | | | | 30 | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238024 | 449367 | 7093430 | 1092 | 16-Jun-12 | MQ | 0-10 | c | y/orange | 10 | | 30 | | | 60 | weathered bedrock | dry | buck brush | ridge top |
| 1238025 | 449450 | 7093366 | 1065 | 16-Jun-12 | MQ | 0-10 | c | lt brown | | | 20 | | | 80 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238026 | 449507 | 7093280 | 1027 | 16-Jun-12 | MQ | 0-10 | c | y/orange | 10 | | 30 | | 60 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238027 | 449578 | 7093206 | 1022 | 16-Jun-12 | MQ | 10-20 | c | lt brown | | 20 | 20 | | 60 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238028 | 449648 | 7093148 | 1024 | 16-Jun-12 | MQ | 10-20 | c | lt brown | | 30 | 20 | | | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238029 | 449683 | 7093077 | 1010 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | 30 | | | | 70 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238030 | 449694 | 7093016 | 1006 | 16-Jun-12 | MQ | 10-20 | c | lt brown | | 30 | | | | 70 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238031 | 449746 | 7092920 | 993 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | 30 | | | | 70 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238032 | 449771 | 7092808 | 966 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | | | | 20 | 80 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238033 | 449745 | 7092710 | 950 | 16-Jun-12 | MQ | 10-20 | c | black | | | 20 | 30 | 50 | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238034 | 449726 | 7092610 | 930 | 16-Jun-12 | MQ | 20-30 | c | y/orange | | | 20 | | | 80 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238035 | 449720 | 7092517 | 915 | 16-Jun-12 | MQ | 20-30 | c | y/orange | | | | 40 | 60 | | weathered bedrock | dry | deciduous forest | ridge top |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238036 | 449713 | 7092425 | 903 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | | 20 | | 50 | 30 | weathered bedrock | moist | deciduous forest | ridge top |
| 1238037 | 449709 | 7092319 | 892 | 16-Jun-12 | MQ | 20-30 | c | olive grey | | 40 | | 40 | 20 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238038 | 449716 | 7092213 | 873 | 16-Jun-12 | MQ | 20-30 | c | olive grey | | 20 | 30 | | 50 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238039 | 449699 | 7092121 | 857 | 16-Jun-12 | MQ | 10-20 | c | lt brown | | 30 | 20 | | 50 | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238040 | 449686 | 7092018 | 843 | 16-Jun-12 | MQ | 10-20 | c | y/orange | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238041 | 449675 | 7091917 | 830 | 16-Jun-12 | MQ | 20-30 | c | y/orange | | 30 | | | 70 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238042 | 449728 | 7091868 | 811 | 16-Jun-12 | MQ | 20-30 | c | olive grey | | 40 | 20 | | 40 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238043 | 449770 | 7091842 | 799 | 16-Jun-12 | MQ | 30-40 | c | olive grey | | 30 | | 50 | 20 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238044 | 449817 | 7091779 | 767 | 16-Jun-12 | MQ | 40-50 | c | olive grey | | 40 | | 20 | 40 | | weathered bedrock | dry | deciduous forest | ridge top |
| 1238045 | 449886 | 7091742 | 745 | 16-Jun-12 | MQ | 20-30 | c | olive grey | | 40 | 20 | 20 | 20 | | weathered bedrock | wet | evergreen forest | ridge top |
| 1238046 | 449951 | 7091684 | 724 | 16-Jun-12 | MQ | 30-40 | c | olive grey | | 40 | | | 20 | 40 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238047 | 449991 | 7091638 | 708 | 16-Jun-12 | MQ | 20-30 | c | olive grey | | 40 | | | 20 | 40 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238048 | 451630 | 7098925 | 875 | 17-Jun-12 | MQ | 20-30 | c | greenish grey | | | | 30 | | 70 | weathered bedrock | wet | evergreen forest | mid slope |
| 1238049 | 451653 | 7098907 | 865 | 17-Jun-12 | MQ | 30-40 | c | y/orange | | | 30 | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238050 | 451700 | 7098888 | 850 | 17-Jun-12 | MQ | 20-30 | c | y/orange | | | | | | 100 | weathered bedrock | wet | evergreen forest | mid slope |
| 1238051 | 451764 | 7098887 | 833 | 17-Jun-12 | MQ | 40-50 | c | olive grey | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238052 | 451812 | 7098893 | 821 | 17-Jun-12 | MQ | 30-40 | c | olive grey | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238053 | 451856 | 7098908 | 814 | 17-Jun-12 | MQ | 10-20 | | y/orange | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238054 | 451896 | 7098906 | 821 | 17-Jun-12 | MQ | 10-20 | | y/orange | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238055 | 451946 | 7098900 | 831 | 17-Jun-12 | MQ | 10-20 | | y/orange | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238056 | 452001 | 7098901 | 843 | 17-Jun-12 | MQ | 10-20 | c | olive grey | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238057 | 452092 | 7098870 | 866 | 17-Jun-12 | MQ | 10-20 | c | olive grey | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238058 | 452130 | 7098845 | 881 | 17-Jun-12 | MQ | 30-40 | c | | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238059 | 452170 | 7098811 | 901 | 17-Jun-12 | MQ | 10-20 | | olive grey | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238060 | 452191 | 7098759 | 916 | 17-Jun-12 | MQ | 20-30 | c | y/orange | | | | | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238061 | 452217 | 7098724 | 929 | 17-Jun-12 | MQ | 10-20 | c | olive grey | | | | | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238062 | 452261 | 7098624 | 945 | 17-Jun-12 | MQ | 10-20 | c | y/orange | | | | | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238063 | 452277 | 7098586 | 954 | 17-Jun-12 | MQ | 20-30 | | y/orange | | | | | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238064 | 452291 | 7098530 | 962 | 17-Jun-12 | MQ | 20-30 | c | olive grey | | | | | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238065 | 452289 | 7098477 | 971 | 17-Jun-12 | MQ | 10-20 | c | y/orange | | | | | | | weathered bedrock | wet | deciduous forest | mid slope |
| 1238066 | 452300 | 7098431 | 982 | 17-Jun-12 | MQ | 20-30 | c | y/orange | | | | | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238067 | 452313 | 7098380 | 993 | 17-Jun-12 | MQ | 30-40 | c | y/orange | | | | | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238068 | 452318 | 7098330 | 1001 | 17-Jun-12 | MQ | 30-40 | c | olive grey | | | | | | | weathered bedrock | wet | deciduous forest | mid slope |
| 1238069 | 452321 | 7098236 | 1023 | 17-Jun-12 | MQ | 10-20 | c | olive grey | | | | | | | weathered bedrock | moist | buck brush | mid slope |
| 1238070 | 452320 | 7098207 | | 17-Jun-12 | MQ | 10-20 | c | olive grey | | | | | | | weathered bedrock | dry | buck brush | ridge top |
| 1238801 | 450165 | 7098214 | 1177 | 15-Jun-12 | MQ | 40-50 | b | lt brown | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238802 | 450206 | 7098126 | | 15-Jun-12 | MQ | 20-30 | b | lt brown | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238803 | 450240 | 7098028 | 1154 | 15-Jun-12 | MQ | 10-20 | a/b | lt brown | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238804 | 450276 | 7097937 | 1125 | 15-Jun-12 | MQ | 30-40 | b | lt brown | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238805 | 450306 | 7097840 | 1106 | 15-Jun-12 | MQ | 40-50 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238806 | 450349 | 7097753 | 1084 | 15-Jun-12 | MQ | 40-50 | b/c | lt brown | 5 | 10 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238807 | 450390 | 7097654 | 1066 | 15-Jun-12 | MQ | 20-30 | a/b | lt brown | 10 | 10 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1238808 | 450405 | 7097565 | 1061 | 15-Jun-12 | MQ | 50-60 | b/c | lt brown | 5 | 10 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238809 | 450438 | 7097462 | 1061 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1238810 | 450435 | 7097355 | 1068 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | 100 | weathered bedrock | moist | buck brush | mid slope |
| 1238811 | 450442 | 7097265 | 1075 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1238812 | 450439 | 7097159 | 1078 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1238813 | 450425 | 7097046 | 1057 | 15-Jun-12 | MQ | 60-70 | c | lt brown | | | | | | 100 | weathered bedrock | moist | buck brush | mid slope |
| 1238814 | 450415 | 7096963 | 1038 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1238815 | 450390 | 7096867 | 1021 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | 100 | weathered bedrock | moist | buck brush | mid slope |
| 1238816 | 450375 | 7096768 | 1007 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | 100 | weathered bedrock | moist | buck brush | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238817 | 450355 | 7096675 | 990 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1238818 | 450339 | 7096570 | 976 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1238819 | 450331 | 7096471 | 957 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1238820 | 450330 | 7096369 | 936 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1238821 | 450308 | 7096271 | 918 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1238822 | 450315 | 7096177 | 894 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238823 | 450313 | 7096072 | 871 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238824 | 450313 | 7095971 | 856 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238825 | 450303 | 7095874 | 840 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238826 | 450313 | 7095773 | 826 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238827 | 450325 | 7095670 | 805 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 10 | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238828 | 450333 | 7095571 | 806 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | | | 20 | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238829 | 450348 | 7095480 | 792 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238830 | 450362 | 7095372 | 767 | 15-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238831 | 450390 | 7095280 | 739 | 15-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238832 | 450408 | 7095179 | 720 | 15-Jun-12 | MQ | 30-40 | b | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238833 | 450420 | 7095097 | 698 | 15-Jun-12 | MQ | 60-70 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238834 | 453367 | 7095279 | 1112 | 16-Jun-12 | MQ | 40-50 | b | lt brown | 5 | 20 | | | | 75 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238835 | 453375 | 7095182 | 1084 | 16-Jun-12 | MQ | | | lt brown | | | | | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238836 | 453393 | 7095085 | 1057 | 16-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 10 | | | | 85 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238837 | 453402 | 7094984 | 1022 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238838 | 453413 | 7094880 | 987 | 16-Jun-12 | MQ | 70-80 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238839 | 453435 | 7094787 | 953 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | 30 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238840 | 453441 | 7094678 | 917 | 16-Jun-12 | MQ | 30-40 | b/c | lt grey | 5 | 15 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238841 | 453459 | 7094595 | 901 | 16-Jun-12 | MQ | 30-40 | b/c | lt grey | 5 | 15 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238842 | 453480 | 7094487 | 866 | 16-Jun-12 | MQ | 50-60 | c | lt grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238843 | 453447 | 7094417 | 847 | 16-Jun-12 | MQ | 20-30 | b | dk grey | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238844 | 453353 | 7094382 | 847 | 16-Jun-12 | MQ | 30-40 | b/c | dk brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238845 | 453252 | 7094348 | 845 | 16-Jun-12 | MQ | 20-30 | b/c | dk grey | 5 | 15 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238846 | 453061 | 7094300 | 849 | 16-Jun-12 | MQ | 30-40 | b/c | dk brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238847 | 452956 | 7094289 | 851 | 16-Jun-12 | MQ | 30-40 | b/c | dk brown | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238848 | 452864 | 7094270 | 848 | 16-Jun-12 | MQ | 20-30 | b | dk grey | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238849 | 452767 | 7094235 | 846 | 16-Jun-12 | MQ | 30-40 | b/c | dk grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238850 | 452567 | 7094225 | 845 | 16-Jun-12 | MQ | 20-30 | b/c | dk grey | 5 | 25 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238851 | 452468 | 7094196 | 841 | 16-Jun-12 | MQ | 50-60 | c | dk grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238852 | 452380 | 7094150 | 834 | 16-Jun-12 | MQ | 50-60 | c | dk grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238853 | 452318 | 7094098 | 822 | 16-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238854 | 452302 | 7094003 | 809 | 16-Jun-12 | MQ | 50-60 | c | dk grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238855 | 452291 | 7093901 | 799 | 16-Jun-12 | MQ | 60-70 | c | dk grey | | | | | | 100 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238856 | 452269 | 7093709 | 776 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 40 | | 40 | | 20 | weathered bedrock | dry | deciduous forest | mid slope |
| 1238857 | 452210 | 7093629 | 762 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | 60 | | 10 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238858 | 452143 | 7093555 | 740 | 16-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | 60 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238859 | 452086 | 7093479 | 703 | 16-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238860 | 451980 | 7093251 | 664 | 16-Jun-12 | MQ | 40-50 | b/c | dk brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238861 | 450504 | 7092341 | 724 | 17-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238862 | 450480 | 7092377 | 739 | 17-Jun-12 | MQ | 50-60 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238863 | 450452 | 7092418 | 767 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238864 | 450427 | 7092461 | 764 | 17-Jun-12 | MQ | 30-40 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238865 | 450403 | 7092501 | 785 | 17-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238866 | 450368 | 7092548 | 818 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | 30 | | 40 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238867 | 450343 | 7092591 | 798 | 17-Jun-12 | MQ | 50-60 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238868 | 450326 | 7092633 | 830 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238869 | 450297 | 7092678 | 850 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238870 | 450251 | 7092761 | 828 | 17-Jun-12 | MQ | 40-50 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238871 | 450211 | 7092799 | 863 | 17-Jun-12 | MQ | 40-50 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238872 | 450168 | 7092887 | 889 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238873 | 450141 | 7092929 | 880 | 17-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238874 | 450122 | 7092974 | 876 | 17-Jun-12 | MQ | 40-50 | b/c | lt grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238875 | 450091 | 7093012 | 894 | 17-Jun-12 | MQ | 40-50 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238876 | 450058 | 7093058 | 940 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238877 | 450032 | 7093100 | 964 | 17-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238878 | 450003 | 7093141 | 979 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238879 | 449972 | 7093182 | 992 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238880 | 449953 | 7093227 | 1003 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238881 | 447871 | 7091226 | 857 | 18-Jun-12 | MQ | 70-80 | c | dk grey | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238882 | 447891 | 7091186 | 845 | 18-Jun-12 | MQ | 20-30 | c | lt grey | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238883 | 447917 | 7091143 | 837 | 18-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238884 | 447941 | 7091102 | 844 | 18-Jun-12 | MQ | 20-30 | b/c | dk brown | 5 | 10 | | | | 85 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238885 | 447965 | 7091053 | 856 | 18-Jun-12 | MQ | 30-40 | b/c | dk grey | | 10 | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238886 | 447984 | 7091008 | 867 | 18-Jun-12 | MQ | 20-30 | b/c | lt grey | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238887 | 448005 | 7090958 | 873 | 18-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238888 | 448080 | 7090837 | 888 | 18-Jun-12 | MQ | 60-70 | c | lt brown | | 20 | | 60 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238889 | 448101 | 7090786 | 893 | 18-Jun-12 | MQ | 30-40 | b/c | lt brown | | 10 | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238890 | 448120 | 7090746 | 894 | 18-Jun-12 | MQ | 50-60 | c | lt grey | | | | 50 | | 50 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238891 | 448190 | 7090612 | | 18-Jun-12 | MQ | 30-40 | b/c | lt brown | | | | 40 | | 60 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238892 | 448215 | 7090568 | 908 | 18-Jun-12 | MQ | 40-50 | b/c | lt brown | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1238893 | 448240 | 7090523 | 910 | 18-Jun-12 | MQ | 50-60 | c | lt grey | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238894 | 448280 | 7090434 | 907 | 18-Jun-12 | MQ | 50-60 | b/c | lt brown | | 30 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238895 | 448378 | 7090467 | 889 | 18-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238896 | 448362 | 7090512 | | 18-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238897 | 448338 | 7090564 | 891 | 18-Jun-12 | MQ | 30-40 | b/c | lt grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238898 | 448311 | 7090607 | 892 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238899 | 448285 | 7090643 | 894 | 18-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238900 | 448220 | 7090783 | 878 | 18-Jun-12 | MQ | 20-30 | b/c | dk brown | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238901 | 448153 | 7090905 | 870 | 18-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 5 | | | | 85 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238902 | 448119 | 7090957 | 862 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 40 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238903 | 448097 | 7091011 | 856 | 18-Jun-12 | MQ | 50-60 | b/c | dk brown | 10 | | | | | 90 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238904 | 448377 | 7091141 | 795 | 18-Jun-12 | MQ | 20-30 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239051 | 450141 | 7098256 | 1179 | 15-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1239052 | 450181 | 7098158 | 1170 | 15-Jun-12 | MQ | 20-30 | b/c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1239053 | 450214 | 7098062 | 1154 | 15-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1239054 | 450256 | 7097984 | 1131 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239055 | 450297 | 7097888 | 1113 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239056 | 450331 | 7097796 | 1093 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239057 | 450367 | 7097695 | 1071 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1239058 | 450400 | 7097603 | 1056 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | buck brush | mid slope |
| 1239059 | 450424 | 7097500 | 1055 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239060 | 450440 | 7097407 | 1057 | 15-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239061 | 450442 | 7097307 | 1064 | 15-Jun-12 | MQ | 50-60 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239062 | 450431 | 7097213 | 1071 | 15-Jun-12 | MQ | 20-30 | c | lt brown | 10 | 10 | | | | 80 | talus | moist | evergreen forest | mid slope |
| 1239063 | 450440 | 7097111 | 1071 | 15-Jun-12 | MQ | 30-40 | c | lt brown | 10 | 15 | | | | 75 | talus | moist | deciduous forest | mid slope |
| 1239064 | 450415 | 7097013 | 1044 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 5 | | | | 95 | weathered bedrock | moist | buck brush | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239065 | 450401 | 7096921 | 1022 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239066 | 450378 | 7096814 | 1008 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239067 | 450365 | 7096716 | 992 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239068 | 450350 | 7096612 | 980 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239069 | 450339 | 7096521 | 962 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239070 | 450323 | 7096420 | 942 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239071 | 450316 | 7096320 | 922 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 25 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239072 | 450307 | 7096226 | 899 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239073 | 450313 | 7096123 | 871 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239074 | 450308 | 7096024 | 854 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | 80 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1239075 | 450304 | 7095917 | 840 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239076 | 450312 | 7095817 | 824 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239077 | 450329 | 7095717 | 807 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239078 | 450331 | 7095608 | 790 | 15-Jun-12 | MQ | 30-40 | c | dk brown | | 10 | 20 | 40 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239079 | 450341 | 7095526 | 791 | 15-Jun-12 | MQ | 50-60 | c | y/orange | | | | 10 | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239080 | 450357 | 7095426 | 771 | 15-Jun-12 | MQ | 60-70 | c | lt brown | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239081 | 450361 | 7095334 | 749 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239082 | 450398 | 7095227 | 724 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 25 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239083 | 450411 | 7095129 | 696 | 15-Jun-12 | MQ | 30-40 | b/c | dk brown | 50 | | | | | 50 | weathered bedrock | frozen | evergreen forest | valley bottom |
| 1239084 | 453350 | 7095327 | 1121 | 16-Jun-12 | MQ | 20-30 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239085 | 453361 | 7095226 | 1088 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239086 | 453380 | 7095137 | 1066 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 5 | | | | 95 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239087 | 453393 | 7095033 | 1032 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239088 | 453405 | 7094924 | 996 | 16-Jun-12 | MQ | 30-40 | b/c | dk brown | 20 | 10 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239089 | 453432 | 7094827 | 957 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239090 | 453434 | 7094740 | 927 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | 20 | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239091 | 453452 | 7094635 | 892 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | ridge top |
| 1239092 | 453474 | 7094529 | 871 | 16-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | 10 | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239093 | 453482 | 7094443 | 847 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239094 | 453394 | 7094403 | 845 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239095 | 453299 | 7094371 | 841 | 16-Jun-12 | MQ | 30-40 | c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239096 | 453183 | 7094348 | 841 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | | | 70 | weathered bedrock | wet | evergreen forest | mid slope |
| 1239097 | 453112 | 7094311 | 837 | 16-Jun-12 | MQ | 60-70 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239098 | 453005 | 7094293 | 839 | 16-Jun-12 | MQ | 30-40 | b/c | dk brown | 50 | | | | | 50 | organic rich | frozen | evergreen forest | mid slope |
| 1239099 | 452897 | 7094280 | 842 | 16-Jun-12 | MQ | 40-50 | c | dk grey | 15 | | | | | 85 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239100 | 452803 | 7094240 | 835 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239101 | 452609 | 7094215 | 833 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1239102 | 452523 | 7094220 | 837 | 16-Jun-12 | MQ | 40-50 | c | dk grey | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239103 | 452428 | 7094184 | 830 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | 15 | | | | 85 | organic rich | moist | evergreen forest | mid slope |
| 1239104 | 452336 | 7094132 | 823 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239105 | 452316 | 7094051 | 811 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239106 | 452311 | 7093936 | 799 | 16-Jun-12 | MQ | 40-50 | b/c | dk grey | 40 | | | | | 60 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239107 | 452266 | 7093758 | 772 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | | | | | 100 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239108 | 452246 | 7093667 | 761 | 16-Jun-12 | MQ | 30-40 | c | dk brown | | 25 | 10 | 25 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239109 | 452184 | 7093594 | 747 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239110 | 452121 | 7093519 | 715 | 16-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239111 | 452064 | 7093437 | 684 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1239112 | 448355 | 7091187 | 805 | 18-Jun-12 | MQ | 20-30 | c | dk grey | | | | 20 | 10 | 70 | weathered bedrock | moist | buck brush | mid slope |
| 1239113 | 448318 | 7091225 | 815 | 18-Jun-12 | MQ | 20-30 | c | dk grey | | | | 10 | 10 | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239114 | 448304 | 7091266 | 815 | 18-Jun-12 | MQ | 20-30 | b/c | dk grey | 20 | 10 | | 10 | | 60 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239115 | 448278 | 7091324 | 791 | 18-Jun-12 | MQ | 20-30 | b/c | dk grey | 20 | 10 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239116 | 448255 | 7091361 | 792 | 18-Jun-12 | MQ | 30-40 | b/c | dk grey | 70 | | | | | 30 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239117 | 448235 | 7091401 | 811 | 18-Jun-12 | MQ | 10-20 | b/c | dk grey | 30 | | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239118 | 448151 | 7091355 | 822 | 18-Jun-12 | MQ | 50-60 | c | dk grey | 5 | | | | | 95 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239119 | 448168 | 7091314 | 808 | 18-Jun-12 | MQ | 40-50 | c | dk grey | 5 | 15 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239120 | 448193 | 7091268 | 806 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | 10 | | 70 | weathered bedrock | wet | deciduous forest | mid slope |
| 1239121 | 448218 | 7091219 | 817 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239122 | 448237 | 7091177 | 831 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239123 | 448257 | 7091127 | 835 | 18-Jun-12 | MQ | 20-30 | b | dk grey | 50 | | | | | 50 | organic rich | p/frozen | evergreen forest | ridge top |
| 1239124 | 448275 | 7091016 | 850 | 18-Jun-12 | MQ | 40-50 | c | dk grey | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239125 | 448364 | 7090940 | 853 | 18-Jun-12 | MQ | 50-60 | c | lt grey | | 25 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239126 | 448392 | 7090909 | 856 | 18-Jun-12 | MQ | 20-30 | b | dk grey | 40 | | | | | 60 | organic rich | moist | evergreen forest | mid slope |
| 1239127 | 448434 | 7090799 | 860 | 18-Jun-12 | MQ | 40-50 | b/c | y/orange | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239128 | 448451 | 7090738 | 864 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | | | | | 100 | organic rich | moist | evergreen forest | mid slope |
| 1239129 | 448488 | 7090683 | 863 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239130 | 448511 | 7090632 | 858 | 18-Jun-12 | MQ | 20-30 | b/c | dk grey | 5 | 10 | | | | 85 | organic rich | moist | evergreen forest | mid slope |
| 1239131 | 448535 | 7090603 | 855 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 10 | | | | 90 | organic rich | moist | evergreen forest | mid slope |
| 1239132 | 448564 | 7090551 | 847 | 18-Jun-12 | MQ | 40-50 | c | dk grey | | 15 | | | | 85 | organic rich | moist | evergreen forest | mid slope |
| 1239133 | 448659 | 7090580 | 835 | 18-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239134 | 448633 | 7090650 | 835 | 18-Jun-12 | MQ | 30-40 | c | lt grey | | | | 20 | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239135 | 448606 | 7090694 | 841 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239136 | 448588 | 7090741 | 842 | 18-Jun-12 | MQ | 20-30 | b/c | lt grey | 20 | 10 | | | | 70 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239137 | 448561 | 7090790 | 848 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 15 | | | | 85 | organic rich | moist | evergreen forest | mid slope |
| 1239138 | 448537 | 7090825 | 846 | 18-Jun-12 | MQ | 50-60 | c | dk grey | | 10 | | | | 90 | organic rich | moist | evergreen forest | mid slope |
| 1239139 | 448520 | 7090881 | 843 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 25 | | | | 75 | organic rich | moist | evergreen forest | mid slope |
| 1239140 | 448489 | 7090926 | 834 | 18-Jun-12 | MQ | 50-60 | c | dk grey | | 15 | | | | 85 | weathered bedrock | wet | evergreen forest | mid slope |
| 1239141 | 448465 | 7090952 | 829 | 18-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | | | | 80 | weathered bedrock | wet | evergreen forest | mid slope |
| 1239142 | 448454 | 7091010 | 808 | 18-Jun-12 | MQ | 20-30 | c | lt grey | | 20 | | | | 80 | organic rich | moist | evergreen forest | mid slope |
| 1239143 | 448427 | 7091063 | 796 | 18-Jun-12 | MQ | 30-40 | c | dk grey | | 35 | | | | 65 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239251 | 450309 | 7097197 | 1063 | 15-Jun-12 | MQ | 50-60 | c | olive grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239252 | 450226 | 7097141 | 1033 | 15-Jun-12 | MQ | 50-60 | c | olive grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239253 | 450157 | 7097078 | 1013 | 15-Jun-12 | MQ | 50-60 | c | olive grey | | | | 20 | 40 | 40 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239254 | 450073 | 7097010 | 987 | 15-Jun-12 | MQ | 30-40 | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239255 | 450016 | 7096937 | 972 | 15-Jun-12 | MQ | 40-50 | c | dk grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239256 | 449979 | 7096845 | 955 | 15-Jun-12 | MQ | 30-40 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239257 | 449946 | 7096751 | 936 | 15-Jun-12 | MQ | 30-40 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239258 | 449924 | 7096655 | 929 | 15-Jun-12 | MQ | 40-50 | c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239259 | 449901 | 7096555 | 924 | 15-Jun-12 | MQ | 40-50 | c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239260 | 449896 | 7096451 | 918 | 15-Jun-12 | MQ | 40-50 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239261 | 449875 | 7096355 | 902 | 15-Jun-12 | MQ | 40-50 | c | dk brown | | | | | | | weathered bedrock | moist | buck brush | mid slope |
| 1239262 | 449864 | 7096253 | 887 | 15-Jun-12 | MQ | 010-20 | c | lt brown | 20 | | | 20 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239263 | 449850 | 7096161 | 864 | 15-Jun-12 | MQ | 30-40 | c | lt brown | 10 | | | 10 | 40 | 40 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239264 | 449849 | 7096052 | 850 | 15-Jun-12 | MQ | 20-30 | b/c | olive grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239265 | 449835 | 7095966 | 844 | 15-Jun-12 | MQ | 30-40 | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239266 | 449835 | 7095865 | 830 | 15-Jun-12 | MQ | 30-40 | b/c | dk grey | | | | 30 | 40 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239267 | 449807 | 7095766 | 812 | 15-Jun-12 | MQ | 30-40 | b/c | dk grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239268 | 449794 | 7095660 | 798 | 15-Jun-12 | MQ | 40-50 | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239269 | 449768 | 7095568 | 787 | 15-Jun-12 | MQ | 30-40 | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239270 | 449742 | 7095467 | 776 | 15-Jun-12 | MQ | 60-70 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239271 | 449719 | 7095374 | 726 | 15-Jun-12 | MQ | 40-50 | b/c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1238401 | 449354 | 7093943 | 1117 | 15-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | | 30 | 40 | weathered bedrock | wet | evergreen forest | mid slope |
| 1238201 | 449552 | 7093566 | 1087 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | | | 50 | | 50 | weathered bedrock | moist | evergreen forest | ridge top |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238202 | 449655 | 7093527 | 1087 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238203 | 449751 | 7093511 | 1086 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238204 | 449850 | 7093493 | 1078 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238205 | 449953 | 7093467 | 1061 | 16-Jun-12 | MQ | 40-50 | c | lt brown | 5 | | | 95 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238206 | 450049 | 7093466 | 1036 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 5 | | 95 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238207 | 450162 | 7093432 | 998 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | 85 | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238208 | 450242 | 7093413 | 972 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238209 | 450351 | 7093408 | 939 | 16-Jun-12 | MQ | 20-30 | c | lt brown | | | 40 | 60 | | | weathered bedrock | dry | deciduous forest | mid slope |
| 1238210 | 450443 | 7093393 | 916 | 16-Jun-12 | MQ | 40-50 | b/c | black | 50 | | 10 | 40 | | | till | moist | deciduous forest | mid slope |
| 1238211 | 450540 | 7093356 | 900 | 16-Jun-12 | MQ | 40-50 | c | lt grey | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238212 | 450629 | 7093358 | 891 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238213 | 450751 | 7093346 | 873 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | deciduous forest | mid slope |
| 1238214 | 450825 | 7093323 | 859 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238215 | 450931 | 7093302 | 847 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238216 | 450935 | 7093249 | 838 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238217 | 450943 | 7093189 | 832 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238218 | 450940 | 7093135 | 825 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238219 | 450935 | 7093079 | 818 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238220 | 450935 | 7093017 | 807 | 16-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238221 | 450938 | 7092965 | 794 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238222 | 450931 | 7092913 | 782 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 15 | | 85 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238223 | 450948 | 7092859 | 770 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238224 | 450965 | 7092808 | 756 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238225 | 450980 | 7092747 | 737 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238226 | 451019 | 7092703 | 716 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238227 | 450149 | 7093652 | 1037 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 70 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238228 | 450202 | 7093653 | 1021 | 17-Jun-12 | MQ | 60-70 | c | lt brown | | | | 50 | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238229 | 450238 | 7093672 | 1011 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238230 | 450286 | 7093683 | 995 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 5 | | 95 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238231 | 450335 | 7093699 | 978 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238232 | 450399 | 7093712 | 956 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238233 | 450441 | 7093719 | 944 | 17-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238234 | 450485 | 7093726 | 928 | 17-Jun-12 | MQ | 20-30 | b/c | lt grey | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238235 | 450536 | 7093739 | 906 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238236 | 450584 | 7093742 | 892 | 17-Jun-12 | MQ | 20-30 | b/c | lt grey | 10 | 20 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238237 | 450634 | 7093760 | 878 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238238 | 450681 | 7093774 | 865 | 17-Jun-12 | MQ | 30-40 | b/c | dk grey | 20 | 10 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238239 | 450746 | 7093804 | 846 | 17-Jun-12 | MQ | 30-40 | b/c | dk grey | 15 | 20 | | 65 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238240 | 450787 | 7093778 | 854 | 17-Jun-12 | MQ | 30-40 | c | lt grey | | 50 | | 50 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238241 | 450843 | 7093797 | 832 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | 10 | | 90 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238242 | 450864 | 7093804 | 829 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | 20 | | 80 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238243 | 450936 | 7093815 | 816 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238244 | 450971 | 7093813 | 803 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238245 | 451027 | 7093819 | 786 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238246 | 451081 | 7093834 | 766 | 17-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | 20 | 40 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238247 | 451122 | 7093853 | 747 | 17-Jun-12 | MQ | 20-30 | c | lt brown | | 50 | | 50 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238248 | 451176 | 7093858 | 729 | 17-Jun-12 | MQ | 30-40 | c | dk brown | | 40 | 20 | 40 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238249 | 451213 | 7093868 | 713 | 17-Jun-12 | MQ | 30-40 | b/c | dk grey | 10 | 20 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238250 | 451276 | 7093888 | 692 | 17-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238251 | 451317 | 7093890 | 681 | 17-Jun-12 | MQ | 20-30 | b/c | lt brown | 10 | 20 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238252 | 448458 | 7090528 | 883 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | wet | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238253 | 448448 | 7090567 | 882 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238254 | 448434 | 7090606 | 883 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238255 | 448406 | 7090653 | 887 | 18-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238256 | 448374 | 7090690 | 888 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238257 | 448316 | 7090774 | 876 | 18-Jun-12 | MQ | 10-20 | b/c | lt brown | 20 | 20 | | 60 | | | weathered bedrock | frozen | evergreen forest | mid slope |
| 1238258 | 448270 | 7090846 | 871 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 100 | | | organic rich | saturated | buck brush | plateau |
| 1238259 | 448278 | 7090893 | 867 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | plateau |
| 1238260 | 448263 | 7090915 | 870 | 18-Jun-12 | MQ | 40-50 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | plateau |
| 1238261 | 448244 | 7090961 | 862 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238262 | 448196 | 7091022 | 853 | 18-Jun-12 | MQ | 20-30 | b/c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238263 | 448176 | 7091104 | 844 | 18-Jun-12 | MQ | 20-30 | b/c | lt grey | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238264 | 448149 | 7091138 | 837 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238265 | 448109 | 7091180 | 820 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238266 | 448095 | 7091217 | 808 | 18-Jun-12 | MQ | 20-30 | b/c | lt grey | | 20 | | 80 | | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238267 | 448077 | 7091264 | 807 | 18-Jun-12 | MQ | 30-40 | b/c | lt grey | | 15 | | 85 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238268 | 448045 | 7091305 | 832 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238269 | 447997 | 7091255 | 839 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238270 | 447994 | 7091211 | 826 | 18-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238271 | 448012 | 7091165 | 820 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | wet | evergreen forest | valley bottom |
| 1238272 | 448051 | 7091098 | 840 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238273 | 448069 | 7091041 | 853 | 18-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238274 | 448417 | 7091104 | 792 | 18-Jun-12 | MQ | 70-80 | c | lt grey | | | | | | 100 | fluvial | saturated | evergreen forest | mid slope |
| 1239272 | 449309 | 7093658 | 1131 | 16-Jun-12 | MQ | 30-40 | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | buck brush | ridge top |
| 1239273 | 449309 | 7093556 | 1126 | 16-Jun-12 | MQ | 30-40 | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | buck brush | ridge top |
| 1239274 | 449330 | 7093467 | 1102 | 16-Jun-12 | MQ | 60-70 | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | buck brush | mid slope |
| 1239275 | 449405 | 7093396 | 1079 | 16-Jun-12 | MQ | 80+ | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239276 | 449481 | 7093329 | 1041 | 16-Jun-12 | MQ | 40-50 | b/c | dk brown | | | | 30 | 30 | 40 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239277 | 449554 | 7093261 | 1028 | 16-Jun-12 | MQ | 50-60 | b/c | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239278 | 449630 | 7093207 | 1035 | 16-Jun-12 | MQ | 20-30 | b/c | dk brown | 20 | | | 20 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239279 | 449719 | 7093149 | 1028 | 16-Jun-12 | MQ | 30-40 | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239280 | 449757 | 7093065 | 1012 | 16-Jun-12 | MQ | 50-60 | c | greenish grey | | 10 | | 40 | 30 | 20 | weathered bedrock | dry | evergreen forest | ridge top |
| 1239281 | 449754 | 7092970 | 999 | 16-Jun-12 | MQ | 40-50 | c | greenish grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239282 | 449748 | 7092867 | 980 | 16-Jun-12 | MQ | 80+ | c | olive grey | | | | 30 | 30 | 40 | weathered bedrock | frozen | deciduous forest | mid slope |
| 1239283 | 449743 | 7092770 | 957 | 16-Jun-12 | MQ | 50-60 | c | olive grey | | | | 30 | 40 | 30 | weathered bedrock | frozen | deciduous forest | mid slope |
| 1239284 | 449728 | 7092669 | 941 | 16-Jun-12 | MQ | 50-60 | c | olive grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239285 | 449713 | 7092564 | 923 | 16-Jun-12 | MQ | 30-40 | c | olive grey | | 10 | 20 | 30 | 20 | 20 | weathered bedrock | moist | evergreen forest | bench |
| 1239286 | 449704 | 7092458 | 904 | 16-Jun-12 | MQ | 30-40 | c | olive grey | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | bench |
| 1239287 | 449698 | 7092368 | 892 | 16-Jun-12 | MQ | 60-70 | c | olive grey | | | | 30 | 30 | 40 | weathered bedrock | frozen | evergreen forest | bench |
| 1239288 | 449691 | 7092271 | 881 | 16-Jun-12 | MQ | 50-60 | c | olive grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239289 | 449696 | 7092169 | 868 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 30 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239290 | 449733 | 7092076 | 852 | 16-Jun-12 | MQ | 80+ | c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | bench |
| 1239291 | 449698 | 7091962 | 838 | 16-Jun-12 | MQ | 50-60 | c | lt brown | | | | 20 | 40 | 40 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239292 | 449651 | 7091866 | 824 | 16-Jun-12 | MQ | 40-50 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239293 | 449632 | 7091821 | 815 | 16-Jun-12 | MQ | 30-40 | c | greenish grey | | 10 | | 70 | 10 | 10 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239294 | 449616 | 7091785 | 808 | 16-Jun-12 | MQ | 50-60 | c | greenish grey | | | | 30 | 30 | 40 | weathered bedrock | p/frozen | deciduous forest | mid slope |
| 1239295 | 449588 | 7091735 | 797 | 16-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 30 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239296 | 449578 | 7091684 | 784 | 16-Jun-12 | MQ | 40-50 | c | olive grey | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239297 | 449557 | 7091646 | 775 | 16-Jun-12 | MQ | 20-30 | c | greenish grey | 10 | | | 20 | 30 | 40 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239298 | 449548 | 7091596 | 765 | 16-Jun-12 | MQ | 50-60 | c | greenish grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239299 | 449545 | 7091548 | 755 | 16-Jun-12 | MQ | 20-30 | c | greenish grey | 10 | | 10 | 20 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239300 | 449542 | 7091502 | 743 | 16-Jun-12 | MQ | 50-60 | c | olive grey | | | 10 | 30 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239301 | 449532 | 7091448 | 726 | 16-Jun-12 | MQ | 40-50 | c | lt brown | 10 | | | 30 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239302 | 449535 | 7091394 | 703 | 16-Jun-12 | MQ | 50-60 | c | olive grey | 10 | 10 | | 20 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1238081 | 437615 | 7087309 | 1093 | 19-Jun-12 | MQ | 10-20 | b | lt brown | | | | | 80 | 20 | weathered bedrock | saturated | evergreen forest | ridge top |
| 1238082 | 437651 | 7087285 | 1100 | 19-Jun-12 | MQ | 10-20 | b | y/orange | | | 20 | | | 80 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238083 | 437666 | 7087237 | 1111 | 19-Jun-12 | MQ | 50-60 | c | olive grey | | | | 20 | 80 | | weathered bedrock | saturated | evergreen forest | ridge top |
| 1238084 | 437697 | 7087251 | 1110 | 19-Jun-12 | MQ | 20-30 | c | y/orange | | | | | 20 | 80 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238085 | 437744 | 7087230 | 1111 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | | | | 20 | 80 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238086 | 437739 | 7087177 | 1117 | 19-Jun-12 | MQ | 30-40 | c | olive grey | | | | | 40 | 60 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238087 | 437781 | 7087201 | 1109 | 19-Jun-12 | MQ | 60-40 | c | y/orange | | | | 20 | | 80 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238088 | 437833 | 7087177 | 1105 | 19-Jun-12 | MQ | 30-40 | c | y/orange | | | | 30 | | 70 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238089 | 437913 | 7087127 | 1099 | 19-Jun-12 | MQ | 40-50 | c | olive grey | | | | 20 | 80 | | weathered bedrock | saturated | evergreen forest | ridge top |
| 1238090 | 437919 | 7087097 | 1103 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | | | | 60 | 40 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238091 | 437903 | 7087092 | | 19-Jun-12 | MQ | 20-30 | c | olive grey | | | | | 20 | 80 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238092 | 437867 | 7087030 | 1115 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | 20 | | | 40 | 40 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238093 | 437824 | 7087051 | 1116 | 19-Jun-12 | MQ | 30-40 | c | olive grey | | 60 | | 20 | 20 | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238094 | 437784 | 7087077 | 1115 | 19-Jun-12 | MQ | 40-50 | c | olive grey | | 60 | | 30 | 10 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238095 | 437740 | 7087112 | 1116 | 19-Jun-12 | MQ | 40-50 | c | olive grey | | 30 | | | 20 | 50 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238096 | 437711 | 7087124 | 1118 | 19-Jun-12 | MQ | 30-40 | c | olive grey | | 30 | | 40 | 30 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238097 | 437688 | 7087091 | 1124 | 19-Jun-12 | MQ | 40-50 | c | y/orange | | | | 30 | 70 | | weathered bedrock | wet | evergreen forest | ridge top |
| 1238098 | 437687 | 7087144 | 1115 | 19-Jun-12 | MQ | 30-40 | c | olive grey | | 20 | | 40 | 40 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238099 | 437603 | 7087183 | 1109 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | | | | 40 | 60 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238100 | 437567 | 7087208 | 1105 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | | | 40 | | 60 | weathered bedrock | moist | evergreen forest | ridge top |
| 1238101 | 437519 | 7087231 | 1099 | 19-Jun-12 | MQ | 20-30 | c | olive grey | | 20 | | | 60 | 20 | weathered bedrock | wet | evergreen forest | ridge top |
| 1238103 | 435357 | 7089817 | 1103 | 21-Jun-12 | MQ | 20-30 | c | olive grey | | | 30 | | | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238104 | 435402 | 7089776 | 1102 | 21-Jun-12 | MQ | 30-40 | c | olive grey | | | 20 | | | 80 | weathered bedrock | moist | buck brush | ridge top |
| 1238105 | 435443 | 7089755 | 1100 | 21-Jun-12 | MQ | 40-50 | c | olive grey | | | | | 30 | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238106 | 435485 | 7089726 | 1094 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | | | 40 | 60 | weathered bedrock | moist | buck brush | ridge top |
| 1238107 | 435531 | 7089706 | 1089 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | 30 | 40 | 30 | | weathered bedrock | dry | buck brush | ridge top |
| 1238108 | 435566 | 7089688 | 1084 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | | 20 | 80 | | weathered bedrock | moist | buck brush | ridge top |
| 1238109 | 435622 | 7089665 | 1078 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | 20 | 40 | | 40 | weathered bedrock | moist | buck brush | ridge top |
| 1238110 | 435663 | 7089645 | 1073 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | | 60 | weathered bedrock | moist | buck brush | ridge top |
| 1238111 | 435699 | 7089622 | 1068 | 21-Jun-12 | MQ | 30-40 | c | olive grey | | | | | 30 | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238112 | 435750 | 7089595 | 1061 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 20 | 40 | | 40 | weathered bedrock | moist | buck brush | ridge top |
| 1238113 | 435793 | 7089569 | 1056 | 21-Jun-12 | MQ | 20-30 | c | olive grey | | | | | 40 | 60 | weathered bedrock | moist | buck brush | ridge top |
| 1238114 | 435822 | 7089539 | 1052 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | | | | weathered bedrock | moist | buck brush | ridge top |
| 1238115 | 435871 | 7089506 | | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | | 30 | 70 | | weathered bedrock | moist | buck brush | ridge top |
| 1238116 | 435909 | 7089482 | 1043 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | | 30 | | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238117 | 435948 | 7089452 | 1038 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | 20 | | 40 | 40 | weathered bedrock | moist | buck brush | ridge top |
| 1238118 | 435984 | 7089417 | 1036 | 21-Jun-12 | MQ | 30-40 | c | olive grey | | | | 40 | 40 | 20 | weathered bedrock | moist | buck brush | ridge top |
| 1238119 | 436030 | 7089392 | 1030 | 21-Jun-12 | MQ | 30-40 | c | olive grey | | | | 20 | | 80 | weathered bedrock | moist | buck brush | ridge top |
| 1238120 | 436091 | 7089355 | 1021 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | | 20 | | 80 | weathered bedrock | moist | buck brush | ridge top |
| 1238121 | 436113 | 7089327 | 1016 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | | 30 | | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238122 | 436147 | 7089295 | 1008 | 21-Jun-12 | MQ | 40-50 | c | olive grey | | | | 20 | 30 | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238123 | 436195 | 7089258 | 999 | 21-Jun-12 | MQ | 30-40 | c | olive grey | | | | | 20 | 80 | weathered bedrock | moist | buck brush | ridge top |
| 1238124 | 436222 | 7089218 | 992 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 20 | 20 | | 60 | weathered bedrock | moist | buck brush | ridge top |
| 1238125 | 436238 | 7089175 | 986 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | | 30 | 50 | 20 | weathered bedrock | moist | buck brush | ridge top |
| 1238126 | 436271 | 7089138 | 977 | 21-Jun-12 | MQ | 40-50 | c | yellow-orange | | | | 40 | | 60 | weathered bedrock | moist | buck brush | ridge top |
| 1238127 | 436294 | 7089089 | 970 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | | 20 | 30 | 50 | weathered bedrock | dry | buck brush | ridge top |
| 1238128 | 436327 | 7089047 | 963 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 20 | | 50 | 30 | weathered bedrock | moist | buck brush | ridge top |
| 1238129 | 436359 | 7089005 | 952 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | | 70 | weathered bedrock | moist | buck brush | ridge top |
| 1238130 | 436388 | 7088977 | 944 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | | | 30 | 70 | | weathered bedrock | dry | buck brush | ridge top |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238131 | 436435 | 7088940 | 930 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 30 | | 20 | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238132 | 436470 | 7088895 | 916 | 21-Jun-12 | MQ | 20-30 | c | yellow-orange | 10 | | | 40 | | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238133 | 436526 | 7088899 | 900 | 21-Jun-12 | MQ | 10-20 | b/c | yellow-orange | 20 | | 10 | | 70 | | fluvial | saturated | buck brush | ridge top |
| 1238134 | 436495 | 7088835 | | 21-Jun-12 | MQ | 20-30 | c | yellow-orange | | | | 20 | 30 | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238135 | 436498 | 7088792 | 890 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | 10 | 10 | | 50 | | 30 | weathered bedrock | moist | buck brush | ridge top |
| 1238136 | 436511 | 7088741 | 883 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 20 | 30 | 50 | | weathered bedrock | moist | buck brush | ridge top |
| 1238137 | 436455 | 7088649 | | 21-Jun-12 | MQ | 20-30 | b/c | yellow-orange | 20 | 20 | | 30 | 30 | | fluvial | saturated | buck brush | ridge top |
| 1238138 | 436526 | 7088635 | 879 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | 20 | | 30 | | 50 | weathered bedrock | moist | buck brush | ridge top |
| 1238139 | 436564 | 7088608 | 871 | 21-Jun-12 | MQ | 30-40 | c | yellow-orange | | | 20 | 30 | | 50 | weathered bedrock | moist | buck brush | valley bottom |
| 1238140 | 436622 | 7088571 | 846 | 21-Jun-12 | MQ | 10-20 | b/c | yellow-orange | 40 | | | 20 | 40 | | fluvial | saturated | buck brush | valley bottom |
| 1239144 | 437389 | 7086663 | 1150 | 19-Jun-12 | MQ | 30-40 | c | y/orange | | 15 | | | | 85 | weathered bedrock | moist | buck brush | ridge top |
| 1239145 | 437416 | 7086614 | 1142 | 19-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239146 | 437428 | 7086567 | 1135 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | buck brush | mid slope |
| 1239147 | 437452 | 7086524 | 1130 | 19-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239148 | 437469 | 7086470 | 1115 | 19-Jun-12 | MQ | 40-50 | c | dk grey | | | | 80 | | 20 | weathered bedrock | dry | buck brush | mid slope |
| 1239149 | 437487 | 7086427 | 1106 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 25 | | | | 75 | weathered bedrock | moist | buck brush | mid slope |
| 1239150 | 437506 | 7086379 | 1097 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239151 | 437520 | 7086331 | 1087 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239152 | 437535 | 7086286 | 1078 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239153 | 437548 | 7086240 | 1064 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239154 | 437574 | 7086192 | 1047 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239155 | 437593 | 7086147 | 1035 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 20 | | 60 | weathered bedrock | moist | buck brush | mid slope |
| 1239156 | 437611 | 7086093 | 1016 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239157 | 437627 | 7086048 | 1007 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | | | 70 | weathered bedrock | moist | buck brush | mid slope |
| 1239158 | 437638 | 7085997 | 999 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239159 | 437659 | 7085965 | 991 | 19-Jun-12 | MQ | 30-40 | c | dk brown | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239160 | 437670 | 7085909 | 978 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239161 | 437692 | 7085866 | 970 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239162 | 437706 | 7085815 | 956 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239163 | 437718 | 7085771 | 947 | 19-Jun-12 | MQ | 60-70 | c | dk grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239164 | 437730 | 7085721 | 934 | 19-Jun-12 | MQ | 30-40 | c | dk grey | | 25 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239165 | 437742 | 7085672 | 924 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | 20 | 20 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239166 | 437767 | 7085631 | 918 | 19-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239167 | 437789 | 7085583 | 909 | 19-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | 10 | 20 | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239168 | 437813 | 7085528 | 893 | 19-Jun-12 | MQ | 20-30 | b/c | dk brown | 60 | | | | | 40 | organic rich | frozen | evergreen forest | mid slope |
| 1239169 | 437820 | 7085492 | 889 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 25 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239170 | 437835 | 7085437 | 884 | 19-Jun-12 | MQ | 60-70 | c | dk brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239171 | 437869 | 7085386 | 874 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | 40 | | | | 20 | 40 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239172 | 437884 | 7085354 | 869 | 19-Jun-12 | MQ | 20-30 | b/c | dk brown | 30 | | | 20 | | 50 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239173 | 437915 | 7085315 | 864 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | 60 | | | | | 40 | organic rich | frozen | evergreen forest | mid slope |
| 1239174 | 437980 | 7085165 | 838 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | 30 | | | 20 | | 50 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239175 | 438036 | 7085082 | 814 | 19-Jun-12 | MQ | 40-50 | c | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239176 | 438058 | 7085043 | 802 | 19-Jun-12 | MQ | 30-40 | b/c | dk grey | 20 | | | 30 | 20 | 30 | organic rich | moist | evergreen forest | mid slope |
| 1239177 | 438106 | 7084975 | 789 | 19-Jun-12 | MQ | 20-30 | a/b | dk brown | 80 | | | | | 20 | organic rich | frozen | evergreen forest | mid slope |
| 1239178 | 438140 | 7084906 | 779 | 19-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | 30 | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239179 | 438184 | 7084851 | 766 | 19-Jun-12 | MQ | 30-40 | c | dk grey | | 30 | | 10 | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239180 | 438219 | 7084804 | 749 | 19-Jun-12 | MQ | 40-50 | c | dk grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239181 | 438248 | 7084748 | 738 | 19-Jun-12 | MQ | 40-50 | b/c | dk grey | | 20 | | 20 | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239182 | 438314 | 7084668 | 706 | 19-Jun-12 | MQ | 30-40 | c | dk grey | | | | 40 | 10 | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239183 | 438347 | 7084630 | 687 | 19-Jun-12 | MQ | 30-40 | b/c | dk grey | 10 | | | 30 | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239184 | 438376 | 7084594 | 677 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239185 | 438412 | 7084556 | 662 | 19-Jun-12 | MQ | 30-40 | b/c | dk grey | 20 | | | 30 | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239186 | 438446 | 7084527 | 656 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238275 | 437403 | 7087087 | 1116 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238276 | 437447 | 7087055 | 1131 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238277 | 437485 | 7087024 | 1141 | 19-Jun-12 | MQ | 70-80 | c | lt brown | | 5 | | 95 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238278 | 437505 | 7087028 | 1142 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238279 | 437529 | 7087003 | 1148 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238280 | 437570 | 7086973 | 1153 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238281 | 437604 | 7086971 | 1152 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238282 | 437619 | 7086952 | 1151 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238283 | 437668 | 7086919 | 1147 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238284 | 437714 | 7086900 | 1144 | 19-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238285 | 437751 | 7086881 | 1142 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 5 | | 95 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238286 | 437783 | 7086877 | 1138 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238287 | 437809 | 7086922 | 1133 | 19-Jun-12 | MQ | 20-30 | c | lt brown | | 5 | | 95 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238288 | 437811 | 7086957 | 1130 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238289 | 437761 | 7086992 | 1128 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | 85 | | | weathered bedrock | dry | buck brush | ridge top |
| 1238290 | 437723 | 7087012 | 1130 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238291 | 437677 | 7087033 | 1132 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238292 | 437632 | 7087006 | 1136 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238293 | 437651 | 7087046 | 1130 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | 85 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238294 | 437629 | 7087060 | 1130 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238295 | 437588 | 7087088 | 1124 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | wet | buck brush | mid slope |
| 1238296 | 437562 | 7087113 | 1121 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238297 | 437541 | 7087108 | 1122 | 19-Jun-12 | MQ | 30-40 | c | lt brown | 10 | | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238298 | 437529 | 7087072 | 1130 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | buck brush | ridge top |
| 1238299 | 437502 | 7087133 | 1118 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238300 | 437452 | 7087154 | 1112 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238301 | 437425 | 7087187 | 1103 | 19-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238302 | 437451 | 7087226 | 1107 | 19-Jun-12 | MQ | 20-30 | c | lt grey | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238303 | 447326 | 7092164 | 1215 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238304 | 447361 | 7092108 | 1200 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238305 | 447381 | 7092064 | 1185 | 20-Jun-12 | MQ | 20-30 | c | lt grey | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238306 | 447402 | 7092029 | 1172 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238307 | 447429 | 7091990 | 1162 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238308 | 447457 | 7091942 | 1144 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238309 | 447482 | 7091908 | 1135 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238310 | 447514 | 7091871 | 1121 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238311 | 447539 | 7091828 | 1100 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238312 | 447564 | 7091779 | 1081 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | deciduous forest | mid slope |
| 1238313 | 447590 | 7091732 | 1066 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238314 | 447623 | 7091701 | 1058 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 5 | | 95 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238315 | 447664 | 7091669 | 1045 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 5 | | 95 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238316 | 447704 | 7091642 | 1032 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238317 | 447746 | 7091620 | 1020 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238318 | 447795 | 7091591 | 1004 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238319 | 447844 | 7091570 | 992 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238320 | 447876 | 7091564 | 977 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | deciduous forest | mid slope |
| 1238321 | 447930 | 7091543 | 959 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | deciduous forest | mid slope |
| 1238322 | 448001 | 7091531 | 940 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238323 | 448038 | 7091535 | 931 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238324 | 448084 | 7091524 | 917 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238325 | 448154 | 7091518 | 895 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238326 | 448194 | 7091509 | 879 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238327 | 448242 | 7091517 | 867 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | 20 | 10 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238328 | 448278 | 7091515 | 849 | 20-Jun-12 | MQ | 50-60 | c | lt grey | | 20 | | 60 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238329 | 448334 | 7091524 | 835 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238330 | 448386 | 7091518 | 819 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238331 | 448431 | 7091528 | 804 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238332 | 448482 | 7091542 | 789 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238333 | 448519 | 7091541 | 779 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | 10 | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238334 | 448593 | 7091540 | 764 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 30 | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238335 | 448683 | 7091537 | 755 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | p/frozen | evergreen forest | plateau |
| 1238336 | 448645 | 7091539 | 750 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238337 | 443678 | 7090002 | 1110 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238338 | 443651 | 7089970 | 1101 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | ridge top |
| 1238339 | 443612 | 7089929 | 1093 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 15 | | 85 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238340 | 443572 | 7089889 | 1085 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238341 | 443541 | 7089854 | 1079 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 5 | | 95 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238342 | 443508 | 7089818 | 1071 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238343 | 443464 | 7089798 | 1067 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238344 | 443428 | 7089755 | 1057 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238345 | 443400 | 7089721 | 1049 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238346 | 443362 | 7089688 | 1034 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238347 | 443325 | 7089645 | 1022 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238348 | 443298 | 7089605 | 1012 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238349 | 443262 | 7089553 | 998 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238350 | 443240 | 7089521 | 992 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238351 | 443229 | 7089472 | 986 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238352 | 443206 | 7089422 | 980 | 21-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | | 30 | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238353 | 443181 | 7089402 | 975 | 21-Jun-12 | MQ | 40-50 | c | lt grey | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238354 | 443136 | 7089368 | 962 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238355 | 443101 | 7089319 | 953 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238356 | 443082 | 7089284 | 947 | 21-Jun-12 | MQ | 20-30 | b/c | lt grey | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238357 | 443048 | 7089234 | 939 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238358 | 443008 | 7089190 | 927 | 21-Jun-12 | MQ | 20-30 | b/c | dk grey | 20 | 10 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238359 | 442975 | 7089153 | 920 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238360 | 442926 | 7089122 | 911 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238361 | 442896 | 7089095 | 903 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | 60 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238362 | 442871 | 7089062 | 895 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238363 | 442842 | 7089023 | 886 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238364 | 442806 | 7088987 | 875 | 21-Jun-12 | MQ | 20-30 | c | lt grey | | 20 | | 80 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238365 | 442767 | 7088949 | 860 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238366 | 442730 | 7088917 | 847 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238367 | 442684 | 7088890 | 831 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238368 | 442652 | 7088856 | 814 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238369 | 442630 | 7088833 | 798 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238370 | 442587 | 7088794 | 789 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238371 | 442550 | 7088747 | 779 | 21-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | wet | evergreen forest | mid slope |
| 1238372 | 442423 | 7088676 | 747 | 21-Jun-12 | MQ | 20-30 | b/c | black | 50 | | | 50 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238373 | 442387 | 7088630 | 729 | 21-Jun-12 | MQ | 20-30 | b/c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238374 | 442332 | 7088603 | 712 | 21-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239303 | 437584 | 7086700 | 1145 | 19-Jun-12 | MQ | 20-30 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239304 | 437603 | 7086656 | 1138 | 19-Jun-12 | MQ | 30-40 | c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239305 | 437623 | 7086608 | 1128 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239306 | 437643 | 7086566 | 1118 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239307 | 437669 | 7086513 | 1108 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | | | 50 | 30 | 20 | weathered bedrock | moist | buck brush | mid slope |
| 1239308 | 437680 | 7086476 | 1098 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239309 | 437697 | 7086425 | 1087 | 19-Jun-12 | MQ | 40-50 | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | wet | buck brush | mid slope |
| 1239310 | 437718 | 7086382 | 1073 | 19-Jun-12 | MQ | 40-50 | b/c | dk grey | | | | 20 | 30 | 50 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239311 | 437745 | 7086334 | 1060 | 19-Jun-12 | MQ | 60-70 | b/c | dk grey | | | | 20 | 20 | 60 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239312 | 437762 | 7086290 | 1048 | 19-Jun-12 | MQ | 50-60 | b/c | dk grey | | 20 | | 40 | 20 | 20 | weathered bedrock | wet | evergreen forest | mid slope |
| 1239313 | 437779 | 7086242 | 1037 | 19-Jun-12 | MQ | 30-40 | b/c | dk grey | | 20 | | 40 | 20 | 20 | weathered bedrock | wet | buck brush | mid slope |
| 1239314 | 437799 | 7086197 | 1029 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | | 30 | | 30 | 20 | 20 | weathered bedrock | wet | buck brush | mid slope |
| 1239315 | 437822 | 7086148 | 1018 | 19-Jun-12 | MQ | 30-40 | b/c | dk brown | | 10 | | 30 | 30 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239316 | 437838 | 7086097 | 1006 | 19-Jun-12 | MQ | 40-50 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239317 | 437858 | 7086055 | 991 | 19-Jun-12 | MQ | 40-50 | b/c | dk grey | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239318 | 437872 | 7086008 | 983 | 19-Jun-12 | MQ | 40-50 | b/c | dk brown | | 30 | | 30 | 20 | 20 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239319 | 437886 | 7085962 | 974 | 19-Jun-12 | MQ | 30-40 | b | dk grey | 20 | | | 20 | 20 | 40 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1239320 | 437910 | 7085914 | 960 | 19-Jun-12 | MQ | 40-50 | b | lt g | | 30 | 10 | 20 | 20 | 20 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1239321 | 437952 | 7085824 | 933 | 19-Jun-12 | MQ | 50-60 | b | dk brown | | | | 30 | 30 | 40 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239322 | 437969 | 7085777 | 915 | 19-Jun-12 | MQ | 50-60 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239323 | 437991 | 7085726 | | 19-Jun-12 | MQ | 80+ | b | dk grey | | | | 20 | 20 | 60 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239324 | 438021 | 7085641 | 875 | 19-Jun-12 | MQ | 70-80 | c | dk brown | | | | 60 | 20 | 20 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239325 | 438073 | 7085503 | 857 | 19-Jun-12 | MQ | 40-50 | b | dk grey | 20 | | | 20 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239326 | 438096 | 7085458 | 849 | 19-Jun-12 | MQ | 50-60 | b/c | greenish grey | | 30 | 10 | 20 | 20 | 20 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239327 | 438117 | 7085408 | 837 | 19-Jun-12 | MQ | 40-50 | b | lt brown | 10 | 20 | | 20 | 20 | 30 | weathered bedrock | wet | evergreen forest | mid slope |
| 1239328 | 438144 | 7085360 | 825 | 19-Jun-12 | MQ | 50-60 | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239329 | 438172 | 7085313 | 814 | 19-Jun-12 | MQ | 50-60 | b/c | dk grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239330 | 438196 | 7085277 | 798 | 19-Jun-12 | MQ | 80+ | b/c | dk brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239331 | 438242 | 7085192 | 776 | 19-Jun-12 | MQ | 50-60 | b | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239332 | 438291 | 7085101 | 759 | 19-Jun-12 | MQ | 50-60 | b | dk grey | 30 | | | 20 | 30 | 20 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239333 | 438342 | 7085019 | 742 | 19-Jun-12 | MQ | 50-60 | b | dk grey | 30 | | | 20 | 30 | 20 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239334 | 438369 | 7084977 | 736 | 19-Jun-12 | MQ | 40-50 | b | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239335 | 438394 | 7084927 | 729 | 19-Jun-12 | MQ | 50-60 | b/c | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | frozen | buck brush | mid slope |
| 1239336 | 438427 | 7084892 | 714 | 19-Jun-12 | MQ | 40-50 | b/c | lt brown | 10 | | | 30 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239337 | 438457 | 7084853 | 700 | 19-Jun-12 | MQ | 40-50 | b | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239338 | 438495 | 7084817 | 689 | 19-Jun-12 | MQ | 80+ | c | dk brown | | | | 60 | 20 | 20 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239339 | 438568 | 7084743 | 679 | 19-Jun-12 | MQ | 50-60 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239340 | 438607 | 7084716 | 675 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239341 | 438656 | 7084667 | 666 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239187 | 449101 | 7093739 | 1135 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239188 | 449052 | 7093717 | 1132 | 20-Jun-12 | MQ | 20-30 | c | y/orange | | 30 | | | | 70 | weathered bedrock | moist | buck brush | mid slope |
| 1239189 | 449015 | 7093696 | 1127 | 20-Jun-12 | MQ | 20-30 | c | y/orange | | 20 | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1239190 | 448964 | 7093672 | 1121 | 20-Jun-12 | MQ | 30-40 | c | y/orange | | 20 | | | | 80 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239191 | 448918 | 7093659 | 1111 | 20-Jun-12 | MQ | 40-50 | c | dk grey | | 25 | | | | 75 | weathered bedrock | dry | deciduous forest | mid slope |
| 1239192 | 448875 | 7093632 | 1096 | 20-Jun-12 | MQ | 40-50 | c | y/orange | | 25 | | | | 75 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239193 | 448832 | 7093606 | 1092 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 25 | | | | 75 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239194 | 448791 | 7093573 | 1080 | 20-Jun-12 | MQ | 20-30 | c | lt brown | 5 | 20 | | | | 75 | talus | moist | deciduous forest | mid slope |
| 1239195 | 448746 | 7093545 | 1066 | 20-Jun-12 | MQ | 10-20 | b/c | dk grey | 30 | 15 | | | | 55 | talus | dry | deciduous forest | mid slope |
| 1239196 | 448667 | 7093499 | 1032 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | deciduous forest | mid slope |
| 1239197 | 448623 | 7093462 | 1007 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | 15 | 25 | | | | 60 | talus | dry | evergreen forest | mid slope |
| 1239198 | 448543 | 7093417 | 971 | 20-Jun-12 | MQ | 30-40 | b/c | dk grey | 5 | 30 | | | | 65 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239199 | 448571 | 7093367 | 962 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239200 | 448618 | 7093291 | 937 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239201 | 448639 | 7093241 | 919 | 20-Jun-12 | MQ | 20-30 | b/c | dk grey | 30 | 10 | | 10 | | 50 | talus | dry | evergreen forest | mid slope |
| 1239202 | 448689 | 7093156 | 889 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239203 | 448723 | 7093107 | 867 | 20-Jun-12 | MQ | 30-40 | c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239204 | 448758 | 7093031 | 856 | 20-Jun-12 | MQ | 30-40 | c | dk grey | 10 | | | | | 90 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239205 | 448813 | 7092941 | 849 | 20-Jun-12 | MQ | 40-50 | c | dk brown | 10 | 25 | | | | 65 | weathered bedrock | moist | buck brush | mid slope |
| 1239206 | 448846 | 7092878 | 836 | 20-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | | | 80 | organic rich | moist | evergreen forest | mid slope |
| 1239207 | 448875 | 7092752 | 823 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 25 | | | | 75 | organic rich | moist | evergreen forest | mid slope |
| 1239208 | 448903 | 7092660 | 817 | 20-Jun-12 | MQ | 30-40 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239209 | 448932 | 7092563 | 817 | 20-Jun-12 | MQ | 20-30 | b | dk brown | 50 | | | | | 50 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239210 | 448963 | 7092464 | 806 | 20-Jun-12 | MQ | 30-40 | b/c | dk grey | 20 | | | | | 80 | organic rich | moist | evergreen forest | mid slope |
| 1239211 | 449006 | 7092385 | 784 | 20-Jun-12 | MQ | 40-50 | c | dk grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239212 | 449092 | 7092341 | 766 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | organic rich | moist | buck brush | valley bottom |
| 1239213 | 449189 | 7092308 | 769 | 20-Jun-12 | MQ | 30-40 | b | dk grey | 30 | | | | | 70 | organic rich | p/frozen | evergreen forest | valley bottom |
| 1239214 | 449272 | 7092252 | 767 | 20-Jun-12 | MQ | 30-40 | b/c | dk brown | 15 | 20 | | | | 65 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239215 | 449337 | 7092194 | 777 | 20-Jun-12 | MQ | 30-40 | b | dk brown | 40 | | | | | 60 | organic rich | dry | evergreen forest | mid slope |
| 1239216 | 449370 | 7092096 | 789 | 20-Jun-12 | MQ | 30-40 | b/c | lt brown | 10 | 20 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239217 | 449386 | 7092059 | 796 | 20-Jun-12 | MQ | 30-40 | c | lt brown | 5 | 10 | | | | 85 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239218 | 449407 | 7092010 | 801 | 20-Jun-12 | MQ | 20-30 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239219 | 449421 | 7091963 | 802 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | 20 | | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239220 | 449434 | 7091911 | 795 | 20-Jun-12 | MQ | 30-40 | c | lt brown | 10 | | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239221 | 449442 | 7091858 | 792 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239222 | 449457 | 7091818 | 789 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239223 | 449443 | 7091718 | 780 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239224 | 449447 | 7091667 | 772 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239225 | 449441 | 7091622 | 765 | 20-Jun-12 | MQ | 20-30 | c | y/orange | | | | | | 100 | w | moist | evergreen forest | mid slope |
| 1239226 | 436914 | 7085498 | 927 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239227 | 436863 | 7085498 | 926 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 5 | | | | 95 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239228 | 436864 | 7085445 | 919 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 5 | | | | 95 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239229 | 436913 | 7085447 | 915 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239230 | 436886 | 7085471 | | 21-Jun-12 | MQ | 80+ | c | lt brown | | 35 | | | | 65 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239231 | 436853 | 7085194 | 857 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239232 | 436910 | 7085190 | 862 | 21-Jun-12 | MQ | 50-60 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239233 | 436908 | 7085140 | 854 | 21-Jun-12 | MQ | 30-40 | b/c | dk brown | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239234 | 436860 | 7085147 | 847 | 21-Jun-12 | MQ | 40-50 | c | lt brown | 5 | 10 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239235 | 436881 | 7085171 | | 21-Jun-12 | MQ | 80+ | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239236 | 436845 | 7084994 | 815 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239237 | 436899 | 7084993 | 816 | 21-Jun-12 | MQ | 40-50 | c | lt grey | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239238 | 436900 | 7084944 | 808 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239239 | 436853 | 7084952 | 810 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239240 | 436871 | 7084971 | | 21-Jun-12 | MQ | 80+ | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239241 | 436829 | 7084407 | 697 | 21-Jun-12 | MQ | 40-50 | c | dk grey | | | | 20 | 20 | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239242 | 436882 | 7084405 | 698 | 21-Jun-12 | MQ | 50-60 | c | dk grey | | | | 20 | 20 | 60 | organic rich | moist | evergreen forest | mid slope |
| 1239243 | 436885 | 7084355 | 695 | 21-Jun-12 | MQ | 40-50 | c | dk grey | | | | 20 | 20 | 60 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239244 | 436828 | 7084352 | 689 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 20 | 20 | 60 | organic rich | p/frozen | evergreen forest | mid slope |
| 1239245 | 436857 | 7084372 | | 21-Jun-12 | MQ | 80+ | c | dk grey | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239246 | 436819 | 7084247 | 686 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239247 | 436869 | 7084248 | 684 | 21-Jun-12 | MQ | 40-50 | c | dk grey | | | | 20 | 20 | 60 | organic rich | moist | evergreen forest | mid slope |
| 1239248 | 436864 | 7084199 | 677 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 15 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239249 | 436819 | 7084201 | 677 | 21-Jun-12 | MQ | 40-50 | c | dk grey | | | | 20 | 20 | 60 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239250 | 436846 | 7084226 | | 21-Jun-12 | MQ | 80+ | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238905 | 437741 | 7086694 | 1127 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | 30 | | 40 | weathered bedrock | dry | buck brush | ridge top |
| 1238906 | 437769 | 7086670 | 1126 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | 20 | | 60 | weathered bedrock | dry | buck brush | mid slope |
| 1238907 | 437804 | 7086631 | 1110 | 19-Jun-12 | MQ | 60-70 | c | lt grey | | 20 | | | | 80 | weathered bedrock | dry | buck brush | mid slope |
| 1238908 | 437847 | 7086599 | 1101 | 19-Jun-12 | MQ | 50-60 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | dry | buck brush | mid slope |
| 1238909 | 437881 | 7086565 | 1095 | 19-Jun-12 | MQ | 70-80 | c | lt grey | | 30 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238910 | 437914 | 7086529 | 1082 | 19-Jun-12 | MQ | 60-70 | c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238911 | 437940 | 7086500 | 1068 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | | 40 | | | | 60 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238912 | 437984 | 7086461 | 1063 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | 5 | 30 | | | | 65 | weathered bedrock | wet | evergreen forest | mid slope |
| 1238913 | 438069 | 7086388 | 1041 | 19-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 20 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238914 | 438095 | 7086366 | 1029 | 19-Jun-12 | MQ | 40-50 | b/c | lt grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238915 | 438128 | 7086324 | 1013 | 19-Jun-12 | MQ | 70-80 | b/c | lt grey | | 20 | | | | 80 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238916 | 438164 | 7086290 | 997 | 19-Jun-12 | MQ | 40-50 | b/c | lt grey | 10 | | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238917 | 438202 | 7086245 | 976 | 19-Jun-12 | MQ | 40-50 | b/c | lt grey | 5 | | | | | 95 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238918 | 438274 | 7086191 | 941 | 19-Jun-12 | MQ | 40-50 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238919 | 438307 | 7086142 | 926 | 19-Jun-12 | MQ | 50-60 | b/c | lt grey | | 10 | 10 | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238920 | 438326 | 7086098 | 914 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | 10 | 20 | | | | 70 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238921 | 438356 | 7086056 | 901 | 19-Jun-12 | MQ | 40-50 | b/c | lt grey | 5 | 10 | | | | 85 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238922 | 438382 | 7086012 | 890 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238923 | 438401 | 7085969 | 879 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | | 10 | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238924 | 438425 | 7085921 | 867 | 19-Jun-12 | MQ | 60-70 | b/c | lt grey | | 20 | | | | 80 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238925 | 438444 | 7085875 | 859 | 19-Jun-12 | MQ | 60-70 | c | lt grey | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238926 | 438471 | 7085829 | 852 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238927 | 438479 | 7085783 | 844 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238928 | 438505 | 7085737 | 831 | 19-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 40 | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238929 | 438524 | 7085698 | 822 | 19-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 50 | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238930 | 438546 | 7085650 | 813 | 19-Jun-12 | MQ | 60-70 | c | lt brown | | 20 | | 20 | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238931 | 438562 | 7085596 | 792 | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238932 | 438554 | 7085554 | | 19-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238933 | 438574 | 7085496 | 777 | 19-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238934 | 438587 | 7085452 | 766 | 19-Jun-12 | MQ | 30-40 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238935 | 438587 | 7085409 | 768 | 19-Jun-12 | MQ | 60-70 | c | lt grey | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238936 | 438576 | 7085352 | | 19-Jun-12 | MQ | 40-50 | c | lt grey | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238937 | 438572 | 7085303 | 764 | 19-Jun-12 | MQ | 60-70 | c | lt brown | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1238938 | 438592 | 7085207 | 747 | 19-Jun-12 | MQ | 30-40 | c | white | | 30 | | 40 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238939 | 438596 | 7085160 | 740 | 19-Jun-12 | MQ | 60-70 | c | lt grey | | 90 | | | | 10 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238940 | 447295 | 7092399 | 1197 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 40 | | 30 | weathered bedrock | dry | buck brush | mid slope |
| 1238941 | 447333 | 7092431 | 1193 | 20-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | | | 70 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1238942 | 447362 | 7092462 | 1189 | 20-Jun-12 | MQ | 60-70 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | buck brush | mid slope |
| 1238943 | 447399 | 7092502 | 1185 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | buck brush | mid slope |
| 1238944 | 447432 | 7092536 | 1180 | 20-Jun-12 | MQ | 60-70 | c | lt brown | | | | 90 | | 10 | weathered bedrock | dry | buck brush | mid slope |
| 1238945 | 447481 | 7092562 | 1179 | 20-Jun-12 | MQ | 40-50 | b/c | lt brown | 5 | 15 | | | | 80 | weathered bedrock | dry | buck brush | mid slope |
| 1238946 | 447528 | 7092572 | 1180 | 20-Jun-12 | MQ | 50-60 | c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | buck brush | mid slope |
| 1238947 | 447572 | 7092592 | 1173 | 20-Jun-12 | MQ | 40-50 | b/c | lt brown | | 40 | | | | 60 | weathered bedrock | dry | buck brush | mid slope |
| 1238948 | 447626 | 7092603 | 1164 | 20-Jun-12 | MQ | 50-60 | c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | buck brush | mid slope |
| 1238949 | 447673 | 7092600 | 1156 | 20-Jun-12 | MQ | 40-50 | c | lt grey | | 40 | | | | 60 | weathered bedrock | dry | buck brush | mid slope |
| 1238950 | 447721 | 7092601 | 1146 | 20-Jun-12 | MQ | 50-60 | c | lt brown | | 40 | | | | 60 | weathered bedrock | dry | buck brush | mid slope |
| 1238951 | 447824 | 7092597 | 1113 | 20-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | buck brush | mid slope |
| 1238952 | 447870 | 7092594 | 1101 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | buck brush | mid slope |
| 1238953 | 447927 | 7092593 | 1087 | 20-Jun-12 | MQ | 60-70 | c | lt grey | | 60 | | | | 40 | weathered bedrock | dry | buck brush | mid slope |
| 1238954 | 447977 | 7092590 | 1076 | 20-Jun-12 | MQ | 50-60 | c | lt grey | | 80 | | | | 20 | weathered bedrock | dry | buck brush | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238955 | 448023 | 7092586 | 1062 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | deciduous forest | mid slope |
| 1238956 | 448074 | 7092580 | 1048 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | deciduous forest | mid slope |
| 1238957 | 448171 | 7092572 | | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | 50 | | 50 | | | weathered bedrock | dry | deciduous forest | mid slope |
| 1238958 | 448224 | 7092559 | 1015 | 20-Jun-12 | MQ | 60-70 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | deciduous forest | mid slope |
| 1238959 | 448267 | 7092555 | 1009 | 20-Jun-12 | MQ | 60-70 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | deciduous forest | mid slope |
| 1238960 | 448320 | 7092542 | 1006 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238961 | 448364 | 7092529 | 1002 | 20-Jun-12 | MQ | 50-60 | c | lt grey | | 80 | | | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238962 | 448461 | 7092509 | 988 | 20-Jun-12 | MQ | 30-40 | b/c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238963 | 448518 | 7092476 | 976 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238964 | 448558 | 7092463 | 961 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238965 | 448603 | 7092447 | 943 | 20-Jun-12 | MQ | 60-70 | c | lt grey | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1238966 | 448651 | 7092429 | 925 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238967 | 448698 | 7092412 | 912 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238968 | 448777 | 7092349 | 879 | 20-Jun-12 | MQ | 40-50 | c | lt grey | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238969 | 448804 | 7092316 | 864 | 20-Jun-12 | MQ | 50-60 | c | lt grey | | 30 | | 40 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238970 | 448846 | 7092278 | 841 | 20-Jun-12 | MQ | 40-50 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238971 | 448924 | 7092213 | 799 | 20-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238972 | 448998 | 7092139 | 774 | 20-Jun-12 | MQ | 20-30 | b/c | lt grey | | 20 | | 20 | | 60 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238973 | 449056 | 7092061 | 749 | 20-Jun-12 | MQ | 40-50 | c | lt grey | 5 | | | | | 95 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238974 | 449126 | 7091990 | 744 | 20-Jun-12 | MQ | 30-40 | b/c | dk grey | | | | | | 100 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238975 | 449232 | 7091824 | 733 | 20-Jun-12 | MQ | 50-60 | c | lt grey | | | | | | 100 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1238976 | 449274 | 7091735 | 719 | 20-Jun-12 | MQ | 80+ | c | lt grey | | | | | | 100 | weathered bedrock | p/frozen | deciduous forest | valley bottom |
| 1238977 | 449309 | 7091643 | 709 | 20-Jun-12 | MQ | 20-30 | b/c | lt grey | | | | | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238978 | 444376 | 7090864 | 1212 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238979 | 444364 | 7090955 | 1199 | 21-Jun-12 | MQ | 20-30 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238980 | 444368 | 7091057 | 1174 | 21-Jun-12 | MQ | 20-30 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1238981 | 444359 | 7091110 | 1158 | 21-Jun-12 | MQ | 30-40 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238982 | 444353 | 7091151 | 1145 | 21-Jun-12 | MQ | 20-30 | b/c | dk grey | 10 | 10 | | | | 80 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238983 | 444350 | 7091304 | 1114 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238984 | 444340 | 7091355 | 1104 | 21-Jun-12 | MQ | 20-30 | c | lt grey | 10 | | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238985 | 444336 | 7091403 | 1100 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238986 | 444326 | 7091505 | 1069 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238987 | 444319 | 7091556 | 1056 | 21-Jun-12 | MQ | 40-50 | b/c | lt brown | 5 | 20 | | | | 75 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238988 | 444293 | 7091659 | 1033 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238989 | 444285 | 7091697 | 1031 | 21-Jun-12 | MQ | 50-60 | b/c | lt brown | | 40 | | | | 60 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238990 | 444262 | 7091746 | 1028 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1238991 | 444248 | 7091792 | 1017 | 21-Jun-12 | MQ | 40-50 | b/c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238992 | 444239 | 7091849 | 1002 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238993 | 444220 | 7091892 | 989 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238994 | 444220 | 7091936 | 983 | 21-Jun-12 | MQ | 60-70 | c | lt brown | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238995 | 444219 | 7091993 | 970 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238996 | 444223 | 7092039 | 959 | 21-Jun-12 | MQ | 60-70 | c | lt brown | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238997 | 444246 | 7092235 | 887 | 21-Jun-12 | MQ | 40-50 | b/c | lt brown | 5 | | | | | 95 | weathered bedrock | wet | buck brush | mid slope |
| 1238998 | 444134 | 7092391 | 853 | 21-Jun-12 | MQ | 80+ | c | lt grey | | | | | | 100 | weathered bedrock | dry | evergreen forest | mid slope |
| 1238999 | 444231 | 7092491 | 842 | 21-Jun-12 | MQ | 40-50 | b/c | lt grey | 10 | | | | | 90 | weathered bedrock | wet | evergreen forest | valley bottom |
| 1239000 | 444225 | 7092543 | 838 | 21-Jun-12 | MQ | 50-60 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1238712 | 437622 | 7087083 | 1128 | 19-Jun-12 | MQ | >80 | c | lt grey | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238713 | 437660 | 7087109 | 1121 | 19-Jun-12 | MQ | | | lt brown | | | | | | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238714 | 437585 | 7087046 | | 19-Jun-12 | MQ | >80 | c | lt brown | | 20 | | 60 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238715 | 440712 | 7087903 | 1031 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | buck brush | ridge top |
| 1238716 | 440798 | 7087960 | 1035 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | buck brush | ridge top |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1238717 | 440892 | 7087992 | 1032 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | buck brush | ridge top |
| 1238718 | 440984 | 7088026 | 1017 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | ridge top |
| 1238719 | 441076 | 7088073 | 999 | 20-Jun-12 | MQ | 70-80 | c | lt brown | | | | 50 | 50 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238720 | 441172 | 7088127 | 978 | 20-Jun-12 | MQ | 20-30 | c | lt brown | | | | 80 | 20 | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238721 | 441256 | 7088142 | 963 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 20 | 30 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238722 | 441356 | 7088158 | 947 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238723 | 441453 | 7088195 | 918 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238724 | 441552 | 7088232 | 890 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238725 | 441645 | 7088265 | 863 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238726 | 441744 | 7088305 | 827 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | | | 70 | 30 | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238727 | 441824 | 7088336 | 798 | 20-Jun-12 | MQ | 40-50 | c | lt brown | | | | 90 | 10 | | weathered bedrock | saturated | evergreen forest | mid slope |
| 1238728 | 441940 | 7088342 | 772 | 20-Jun-12 | MQ | 20-30 | b/c | lt brown | | | | 50 | 50 | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1238729 | 442005 | 7088426 | 757 | 20-Jun-12 | MQ | 30-40 | c | lt brown | | | | 80 | 20 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1238730 | 441813 | 7089272 | 752 | 20-Jun-12 | MQ | >80 | c | lt brown | | | | 60 | 40 | | weathered bedrock | moist | evergreen forest | mid slope |
| 1239342 | 444094 | 7090678 | 1206 | 21-Jun-12 | MQ | 50-60 | b | lt brown | | | | 20 | 30 | 50 | weathered bedrock | frozen | buck brush | ridge top |
| 1239343 | 444067 | 7090716 | 1201 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | | | 30 | 30 | 40 | weathered bedrock | frozen | buck brush | mid slope |
| 1239344 | 444036 | 7090755 | 1196 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | | | 30 | 30 | 40 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239345 | 443947 | 7090880 | 1170 | 21-Jun-12 | MQ | 30-40 | b | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239346 | 443917 | 7090918 | 1160 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239347 | 443891 | 7090952 | 1152 | 21-Jun-12 | MQ | 40-50 | b | dk grey | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239348 | 443858 | 7090997 | 1139 | 21-Jun-12 | MQ | 30-40 | b | lt brown | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239349 | 443756 | 7091106 | 1112 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | 30 | 40 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239350 | 443714 | 7091136 | 1104 | 21-Jun-12 | MQ | 30-40 | b | lt brown | | | | 30 | 30 | 40 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239351 | 443707 | 7091185 | 1101 | 21-Jun-12 | MQ | 30-40 | b | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239352 | 443700 | 7091239 | 1103 | 21-Jun-12 | MQ | 60-70 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239353 | 443668 | 7091277 | 1104 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1239354 | 443634 | 7091317 | 1109 | 21-Jun-12 | MQ | 40-50 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239355 | 443613 | 7091359 | 1117 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 30 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239356 | 443580 | 7091404 | 1124 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239357 | 443540 | 7091498 | 1138 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | moist | buck brush | mid slope |
| 1239358 | 443453 | 7091594 | 1151 | 21-Jun-12 | MQ | 30-40 | b | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | ridge top |
| 1239359 | 443387 | 7091611 | 1153 | 21-Jun-12 | MQ | 30-40 | b | lt brown | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | ridge top |
| 1239360 | 443327 | 7091617 | 1152 | 21-Jun-12 | MQ | 20-30 | b | | 20 | | | 20 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | ridge top |
| 1239361 | 443222 | 7091676 | 1153 | 21-Jun-12 | MQ | 30-40 | b | lt brown | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | ridge top |
| 1239362 | 443194 | 7091766 | 1141 | 21-Jun-12 | MQ | 50-60 | c | lt brown | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1239363 | 443204 | 7091813 | 1136 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239364 | 443211 | 7091860 | 1125 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239365 | 443224 | 7091915 | 1110 | 21-Jun-12 | MQ | 30-40 | b | dk brown | 20 | | | 20 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239366 | 443280 | 7092325 | 950 | 21-Jun-12 | MQ | 10-20 | b | dk grey | 30 | | | 20 | 20 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239367 | 443293 | 7092474 | 899 | 21-Jun-12 | MQ | 10-20 | a/b | dk brown | 30 | | | 20 | 20 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1239368 | 443274 | 7092758 | 816 | 21-Jun-12 | MQ | 20-30 | a/b | dk brown | 30 | | | 20 | 20 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1238402 | 434838 | 7089537 | 1039 | 21-Jun-12 | MQ | 30-40 | b/c | lt brown | | 20 | | 20 | 40 | 20 | weathered bedrock | dry | buck brush | mid slope |
| 1238403 | 434829 | 7089351 | 1029 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | | 50 | 20 | weathered bedrock | dry | buck brush | mid slope |
| 1238404 | 434813 | 7089225 | 1023 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | | 60 | | weathered bedrock | moist | buck brush | mid slope |
| 1238405 | 434796 | 7089087 | 1018 | 21-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | | 60 | | weathered bedrock | dry | buck brush | mid slope |
| 1238406 | 434650 | 7088851 | 959 | 21-Jun-12 | MQ | 30-40 | b/c | lt brown | 20 | 30 | | | 30 | 20 | weathered bedrock | moist | buck brush | mid slope |
| 1239701 | 444225 | 7092588 | 837 | 21-Jun-12 | MQ | 30-40 | b/c | lt grey | 5 | | | | | 95 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1239702 | 444215 | 7092682 | 836 | 21-Jun-12 | MQ | 50-60 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1239703 | 444210 | 7092741 | 842 | 21-Jun-12 | MQ | 70-80 | c | lt brown | | | | 100 | | | weathered bedrock | dry | evergreen forest | valley bottom |
| 1239704 | 444203 | 7092794 | 836 | 21-Jun-12 | MQ | 30-40 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1239705 | 444204 | 7092843 | 840 | 21-Jun-12 | MQ | 50-60 | c | lt brown | | | | 50 | | 50 | weathered bedrock | dry | evergreen forest | valley bottom |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1239706 | 444199 | 7092886 | 833 | 21-Jun-12 | MQ | 50-60 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1239707 | 444202 | 7092934 | 819 | 21-Jun-12 | MQ | 40-50 | c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | valley bottom |
| 1239872 | 447831 | 7091650 | 1000 | 27-Jun-12 | MQ | 50-60 | c | y/orange | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239873 | 447865 | 7091698 | 991 | 27-Jun-12 | MQ | 50-60 | c | lt grey | | 70 | | | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239874 | 447896 | 7091728 | 980 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | 40 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239875 | 447928 | 7091764 | 970 | 27-Jun-12 | MQ | 80+ | c | lt brown | | 20 | | 60 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239876 | 447955 | 7091808 | 958 | 27-Jun-12 | MQ | 60-70 | c | lt brown | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239877 | 447989 | 7091847 | 953 | 27-Jun-12 | MQ | 50-60 | b/c | lt brown | | 40 | | 40 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239878 | 448022 | 7091886 | 965 | 27-Jun-12 | MQ | 60-70 | c | lt brown | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239879 | 448053 | 7091923 | 974 | 27-Jun-12 | MQ | 60-70 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239880 | 448086 | 7091960 | 975 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239881 | 448117 | 7092000 | 966 | 27-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | | 90 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239882 | 448147 | 7092032 | 954 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239883 | 448260 | 7092019 | 920 | 27-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | 40 | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239884 | 448240 | 7091971 | 926 | 27-Jun-12 | MQ | 50-60 | c | dk brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239885 | 448200 | 7091944 | 935 | 27-Jun-12 | MQ | 50-60 | b/c | lt brown | | 10 | | 40 | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239886 | 448160 | 7091906 | 940 | 27-Jun-12 | MQ | 30-40 | c | y/orange | | 10 | | 60 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239887 | 448130 | 7091867 | 936 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 60 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239888 | 448105 | 7091836 | 927 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 60 | | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239889 | 448080 | 7091788 | 910 | 27-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 20 | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239890 | 448039 | 7091746 | 918 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1239891 | 448011 | 7091715 | 922 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 30 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239892 | 447978 | 7091669 | 939 | 27-Jun-12 | MQ | 50-60 | b/c | lt grey | | 30 | | 40 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1239893 | 447947 | 7091631 | 953 | 27-Jun-12 | MQ | 30-40 | c | lt brown | 10 | 20 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1239894 | 447913 | 7091594 | 959 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1239895 | 448018 | 7091569 | 920 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1239896 | 448051 | 7091609 | 917 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241701 | 448081 | 7091648 | 909 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 50 | | 50 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241702 | 448112 | 7091683 | 895 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241703 | 448144 | 7091720 | 886 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241704 | 448211 | 7091792 | 881 | 27-Jun-12 | MQ | 40-50 | c | lt brown | 5 | 20 | | 75 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241705 | 448254 | 7091836 | 899 | 27-Jun-12 | MQ | 50-60 | c | lt brown | 5 | 15 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241706 | 448281 | 7091879 | 903 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241707 | 448304 | 7091909 | 903 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241708 | 448335 | 7091953 | 902 | 27-Jun-12 | MQ | 40-50 | c | lt grey | 5 | 15 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240284 | 448137 | 7091543 | 898 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240285 | 448156 | 7091588 | 899 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 30 | 40 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240286 | 448185 | 7091625 | 881 | 27-Jun-12 | MQ | 40-50 | c | dk grey | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1240287 | 448220 | 7091668 | 862 | 27-Jun-12 | MQ | 40-50 | b/c | dk grey | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1240288 | 448256 | 7091699 | 853 | 27-Jun-12 | MQ | 30-40 | b | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | p/frozen | buck brush | mid slope |
| 1240289 | 448290 | 7091742 | 849 | 27-Jun-12 | MQ | 40-50 | b | dk brown | 20 | | | 20 | 30 | 30 | weathered bedrock | frozen | buck brush | mid slope |
| 1240290 | 448316 | 7091779 | 857 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240291 | 448357 | 7091818 | 866 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240292 | 448386 | 7091853 | 870 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240293 | 448415 | 7091901 | 870 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240294 | 448529 | 7091878 | 839 | 27-Jun-12 | MQ | 30-40 | b/c | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1240295 | 448507 | 7091835 | 836 | 27-Jun-12 | MQ | 70-80 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forest | mid slope |
| 1240296 | 448472 | 7091806 | 833 | 27-Jun-12 | MQ | 50-60 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240297 | 448435 | 7091770 | 820 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | | | 40 | 30 | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240298 | 448412 | 7091727 | 812 | 27-Jun-12 | MQ | 30-40 | a/b | black | 30 | | | 10 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240299 | 448381 | 7091686 | 817 | 27-Jun-12 | MQ | 60-70 | b | dk grey | | | | 20 | 30 | 50 | weathered bedrock | frozen | buck brush | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1240300 | 448348 | 7091647 | 823 | 27-Jun-12 | MQ | 40-50 | b/c | dk grey | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240301 | 448312 | 7091608 | 832 | 27-Jun-12 | MQ | 50-60 | b/c | lt grey | | | 10 | 30 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240302 | 448284 | 7091576 | 846 | 27-Jun-12 | MQ | 40-50 | b/c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240303 | 448394 | 7091551 | 811 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240304 | 448420 | 7091582 | 802 | 27-Jun-12 | MQ | 40-50 | b | dk brown | 30 | | | 20 | 20 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240305 | 448452 | 7091625 | 798 | 27-Jun-12 | MQ | 40-50 | b/c | lt grey | | 10 | 10 | 30 | 20 | 30 | weathered bedrock | wet | buck brush | mid slope |
| 1240306 | 448517 | 7091698 | 785 | 27-Jun-12 | MQ | 30-40 | b | dk brown | 30 | | | 20 | 20 | 30 | weathered bedrock | frozen | buck brush | mid slope |
| 1240307 | 448548 | 7091739 | 781 | 27-Jun-12 | MQ | 50-60 | b | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240308 | 448584 | 7091769 | 786 | 27-Jun-12 | MQ | 60-70 | b/c | dk brown | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240309 | 448610 | 7091810 | 798 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | | | 50 | 30 | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240310 | 448697 | 7091752 | 768 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240311 | 448646 | 7091686 | 760 | 27-Jun-12 | MQ | 40-50 | a/b | black | 30 | | | 10 | 20 | 40 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240312 | 448613 | 7091645 | 760 | 27-Jun-12 | MQ | 40-50 | b | black | 20 | | | 30 | 20 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240313 | 448546 | 7091563 | 767 | 27-Jun-12 | MQ | 30-40 | b | dk grey | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240314 | 448484 | 7091492 | 769 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240315 | 448455 | 7091455 | 764 | 27-Jun-12 | MQ | 40-50 | b/c | lt grey | | | | 40 | 30 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240316 | 448391 | 7091379 | 771 | 27-Jun-12 | MQ | 30-40 | b | dk grey | 10 | | 10 | 30 | 20 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240317 | 448356 | 7091343 | 780 | 27-Jun-12 | MQ | 40-50 | b | dk grey | 30 | | | 20 | 20 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240318 | 448419 | 7091270 | 789 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | | | 50 | 30 | 20 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240319 | 448475 | 7091344 | 776 | 27-Jun-12 | MQ | 30-40 | c | greenish grey | | | | 50 | 30 | 20 | weathered bedrock | dry | deciduous forest | mid slope |
| 1240320 | 448507 | 7091379 | 767 | 27-Jun-12 | MQ | 30-40 | b | dk brown | | 10 | | 30 | 30 | 30 | weathered bedrock | wet | evergreen forest | mid slope |
| 1240321 | 448541 | 7091417 | 761 | 27-Jun-12 | MQ | 20-30 | b | dk grey | | 10 | | 30 | 30 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240322 | 448573 | 7091459 | 758 | 27-Jun-12 | MQ | 40-50 | b | dk grey | | | | 30 | 40 | 30 | weathered bedrock | frozen | evergreen forest | mid slope |
| 1240323 | 448604 | 7091492 | 758 | 27-Jun-12 | MQ | 20-30 | b | dk grey | | | | 30 | 40 | 30 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1241063 | 448333 | 7091476 | 821 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | | | | 100 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241064 | 448302 | 7091455 | | 27-Jun-12 | MQ | 0-10 | c | y/orange | 40 | | | | 60 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241065 | 448158 | 7091411 | 845 | 27-Jun-12 | MQ | 010-20 | c | lt brown | 30 | | | | 70 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241066 | 448171 | 7091459 | 859 | 27-Jun-12 | MQ | 010-20 | c | y/orange | 30 | | | | 70 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241067 | 448199 | 7091507 | 870 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 40 | | | | 60 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241068 | 448075 | 7091484 | 898 | 27-Jun-12 | MQ | 010-20 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241069 | 448040 | 7091446 | 899 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241070 | 447901 | 7091403 | 921 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241071 | 447922 | 7091448 | 929 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241072 | 447952 | 7091483 | | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241073 | 447803 | 7091415 | 947 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 30 | | | | 70 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241074 | 447825 | 7091458 | 958 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241075 | 447854 | 7091502 | 964 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241076 | 447776 | 7091554 | 989 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241077 | 447742 | 7091529 | 987 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 30 | | | | 70 | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241078 | 447724 | 7091485 | 976 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241079 | 447690 | 7091452 | 972 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241080 | 447645 | 7091419 | 968 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241081 | 447592 | 7091400 | | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | 20 | | | 60 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241082 | 447584 | 7091373 | 934 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241083 | 447706 | 7091354 | 940 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241084 | 447708 | 7091330 | 931 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 10 | | | | 90 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241085 | 447665 | 7091310 | 917 | 27-Jun-12 | MQ | 30-40 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241086 | 447789 | 7091324 | 909 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241087 | 447779 | 7091264 | 894 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241088 | 447761 | 7091224 | 884 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |
| 1241089 | 447804 | 7091176 | 860 | 27-Jun-12 | MQ | 20-30 | c | y/orange | 20 | | | | 80 | | weathered bedrock | dry | deciduous forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1240059 | 448270 | 7092200 | 906 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240060 | 448257 | 7092149 | 910 | 27-Jun-12 | MQ | 20-30 | c | lt grey | | | 20 | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240061 | 448211 | 7092122 | 918 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240062 | 448311 | 7092123 | 893 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 15 | | 85 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240063 | 448371 | 7092142 | 875 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240064 | 448411 | 7092178 | 864 | 27-Jun-12 | MQ | 60-70 | c | lt grey | | 10 | | 50 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240065 | 448512 | 7092123 | 839 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | 60 | | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240066 | 448449 | 7092080 | 854 | 27-Jun-12 | MQ | 20-30 | b/c | lt grey | | 10 | | 70 | | 20 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240067 | 448412 | 7092048 | 867 | 27-Jun-12 | MQ | 20-30 | b/c | lt grey | | 10 | | 70 | | 20 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240068 | 448492 | 7092008 | 844 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240069 | 448541 | 7092003 | 836 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | 60 | | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240070 | 448549 | 7092058 | 836 | 27-Jun-12 | MQ | 20-30 | b/c | lt grey | | 20 | | 40 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240071 | 448692 | 7092078 | 805 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | 30 | 40 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240072 | 448658 | 7092046 | 809 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240073 | 448620 | 7092000 | 815 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240074 | 448592 | 7091968 | 820 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240075 | 448689 | 7091910 | 800 | 27-Jun-12 | MQ | 20-30 | b/c | lt grey | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240076 | 448715 | 7091948 | 790 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240077 | 448756 | 7091975 | 783 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240078 | 448781 | 7092012 | 777 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240079 | 448887 | 7092000 | 764 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1240080 | 448865 | 7091967 | 764 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240081 | 448826 | 7091920 | 768 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240082 | 448811 | 7091888 | 772 | 27-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240083 | 448764 | 7091849 | 777 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1240084 | 448869 | 7091785 | 762 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240085 | 448899 | 7091858 | 760 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | | | 100 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240086 | 448937 | 7091913 | 757 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240087 | 448965 | 7091934 | 753 | 27-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240088 | 449010 | 7091950 | 749 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240089 | 449079 | 7091917 | 744 | 27-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1240090 | 449037 | 7091889 | 746 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240091 | 449007 | 7091845 | 747 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240092 | 448986 | 7091807 | 747 | 27-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240093 | 448961 | 7091782 | 750 | 27-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241090 | 452235 | 7098378 | 984 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 20 | 20 | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241091 | 452193 | 7098344 | 974 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 10 | 30 | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241092 | 452155 | 7098355 | 962 | 28-Jun-12 | MQ | 40-50 | c | olive grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241093 | 452098 | 7098364 | 947 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241094 | 452058 | 7098354 | 937 | 28-Jun-12 | MQ | 40-50 | c | olive grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241095 | 452015 | 7098347 | 926 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 20 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241096 | 451955 | 7098356 | 909 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 20 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241097 | 451912 | 7098357 | 892 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 20 | | | | 60 | weathered bedrock | moist | buck brush | mid slope |
| 1241098 | 451857 | 7098374 | 870 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 20 | | | | | 80 | weathered bedrock | moist | buck brush | mid slope |
| 1241099 | 451811 | 7098399 | 852 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241100 | 451815 | 7098429 | 849 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 30 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241101 | 451840 | 7098520 | 844 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 20 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241102 | 451878 | 7098565 | 846 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 20 | | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241103 | 451909 | 7098615 | 844 | 28-Jun-12 | MQ | 40-50 | c | olive grey | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241104 | 451921 | 7098664 | 843 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 30 | 20 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241105 | 451931 | 7098705 | 841 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 20 | 40 | | | | 40 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1241106 | 451954 | 7098742 | 845 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 20 | 30 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241107 | 451996 | 7098739 | 860 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241108 | 452031 | 7098720 | 874 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241109 | 452072 | 7098700 | 888 | 28-Jun-12 | MQ | 20-30 | c | olive grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241110 | 452109 | 7098662 | 900 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 30 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241111 | 452134 | 7098610 | 909 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 30 | 20 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241112 | 452155 | 7098572 | 922 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 30 | | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241113 | 452184 | 7098533 | 934 | 28-Jun-12 | MQ | 30-40 | c | olive grey | 20 | 10 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241114 | 452196 | 7098486 | 944 | 28-Jun-12 | MQ | 20-30 | c | olive grey | 20 | 10 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241115 | 452216 | 7098441 | | 28-Jun-12 | MQ | 20-30 | c | olive grey | | 40 | | | | 60 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240094 | 449350 | 7091390 | 717 | 28-Jun-12 | MQ | 20-30 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1240095 | 449313 | 7091454 | 722 | 28-Jun-12 | MQ | 20-30 | b/c | lt grey | | 10 | | 70 | | 20 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1240096 | 449236 | 7091492 | 729 | 28-Jun-12 | MQ | 20-30 | c | lt brown | | 10 | | 60 | | 30 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1240097 | 449156 | 7091527 | 735 | 28-Jun-12 | MQ | 50-60 | c | olive grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240098 | 449164 | 7091664 | 734 | 28-Jun-12 | MQ | 30-40 | c | lt grey | | | 30 | 40 | | 30 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1240099 | 449179 | 7091714 | 736 | 28-Jun-12 | MQ | 40-50 | c | olive grey | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1240100 | 449158 | 7091829 | 742 | 28-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | 70 | | 20 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241501 | 449107 | 7091770 | 742 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241502 | 449081 | 7091747 | 742 | 28-Jun-12 | MQ | 30-40 | c | olive grey | | 30 | | 25 | | 45 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241503 | 449036 | 7091722 | 742 | 28-Jun-12 | MQ | 20-Oct | b/c | lt grey | | 20 | | 80 | | | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241504 | 449080 | 7091612 | 734 | 28-Jun-12 | MQ | 30-40 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241505 | 449074 | 7091555 | 736 | 28-Jun-12 | MQ | 40-50 | c | lt grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241506 | 449015 | 7091546 | 741 | 28-Jun-12 | MQ | 50-60 | c | olive grey | | | | | | 100 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241507 | 448977 | 7091484 | 742 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | | | 20 | | 80 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241508 | 448945 | 7091450 | 741 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241509 | 448932 | 7091415 | 741 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241510 | 448774 | 7091409 | 750 | 28-Jun-12 | MQ | 20-30 | c | lt grey | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241511 | 448828 | 7091423 | 747 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | | | 50 | | 50 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241512 | 448857 | 7091475 | 744 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | 20 | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241513 | 448876 | 7091513 | 744 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 45 | | 45 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241514 | 448799 | 7091552 | 748 | 28-Jun-12 | MQ | 20-30 | c | lt grey | | | | 50 | | 50 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241515 | 448703 | 7091621 | 757 | 28-Jun-12 | MQ | 20-Oct | b/c | lt grey | | | | 50 | | 50 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241516 | 448690 | 7091563 | 755 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | | | 50 | | 50 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241517 | 448782 | 7091530 | 748 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 10 | | 45 | | 45 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241518 | 448741 | 7091488 | 748 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 70 | | 20 | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241519 | 448692 | 7091462 | 751 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | valley bottom |
| 1241520 | 448679 | 7091426 | 752 | 28-Jun-12 | MQ | 60-70 | c | lt brown | | | | 100 | | | weathered bedrock | dry | evergreen forest | valley bottom |
| 1241521 | 448628 | 7091391 | 755 | 28-Jun-12 | MQ | 50-60 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241522 | 448723 | 7091333 | 754 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241523 | 448697 | 7091288 | 755 | 28-Jun-12 | MQ | 30-40 | c | lt brown | | | 40 | 60 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241524 | 448879 | 7091338 | 740 | 28-Jun-12 | MQ | 40-50 | c | lt grey | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241525 | 448848 | 7091287 | 744 | 28-Jun-12 | MQ | 50-60 | c | lt brown | | 10 | | | 90 | | weathered bedrock | moist | deciduous forect | mid slope |
| 1241526 | 448807 | 7091257 | 750 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241527 | 448751 | 7091217 | 755 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | moist | evergreen forest | valley bottom |
| 1241709 | 448792 | 7090784 | 829 | 28-Jun-12 | MQ | 60-70 | c | lt grey | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241710 | 448831 | 7090720 | 823 | 28-Jun-12 | MQ | 40-50 | c | lt grey | | 20 | | 40 | | 40 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241711 | 448805 | 7090616 | 820 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241712 | 448734 | 7090603 | 834 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241713 | 448700 | 7090660 | 841 | 28-Jun-12 | MQ | 30-40 | c | lt grey | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241714 | 448761 | 7090685 | 828 | 28-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241715 | 448728 | 7090747 | 835 | 28-Jun-12 | MQ | 40-50 | c | lt grey | | 10 | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1241716 | 448678 | 7090729 | 843 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | wet | evergreen forest | mid slope |
| 1241717 | 448627 | 7090863 | 848 | 28-Jun-12 | MQ | 50-60 | c | lt grey | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241718 | 448684 | 7090889 | 840 | 28-Jun-12 | MQ | 40-50 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241719 | 448744 | 7090914 | 831 | 28-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241720 | 448666 | 7090962 | 818 | 28-Jun-12 | MQ | 30-40 | c | lt grey | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241721 | 448599 | 7090931 | 838 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | | | | | 90 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1241722 | 448579 | 7090971 | 822 | 28-Jun-12 | MQ | 30-40 | c | lt grey | | 20 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241723 | 448601 | 7091020 | 805 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1241724 | 448636 | 7091053 | 792 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | p/frozen | deciduous forect | mid slope |
| 1241725 | 448663 | 7091087 | 780 | 28-Jun-12 | MQ | 60-70 | c | greenish grey | | 5 | | | | 95 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241726 | 448509 | 7091058 | 787 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241727 | 448536 | 7091087 | 782 | 28-Jun-12 | MQ | 30-40 | c | lt grey | 15 | | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241728 | 448571 | 7091129 | 781 | 28-Jun-12 | MQ | 70-80 | c | lt grey | | | | | | 100 | weathered bedrock | wet | evergreen forest | mid slope |
| 1241729 | 448480 | 7091180 | 783 | 28-Jun-12 | MQ | 40-50 | c | lt grey | 30 | | | | | 70 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241730 | 448508 | 7091231 | 780 | 28-Jun-12 | MQ | 40-50 | b/c | dk grey | 10 | 10 | | | | 80 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241731 | 448596 | 7091173 | 769 | 28-Jun-12 | MQ | 40-50 | c | lt grey | 10 | | | | | 90 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241732 | 448631 | 7091209 | 770 | 28-Jun-12 | MQ | 40-50 | b/c | lt grey | 15 | | | | | 85 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241733 | 448731 | 7091178 | 758 | 28-Jun-12 | MQ | 40-50 | b/c | lt grey | 10 | | | | | 90 | weathered bedrock | p/frozen | evergreen forest | valley bottom |
| 1241734 | 448722 | 7091132 | 767 | 28-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | wet | evergreen forest | mid slope |
| 1237578 | 451626 | 7098137 | | 28-Jun-12 | MQ | 30 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237579 | 451676 | 7098138 | | 28-Jun-12 | MQ | 30 | c | dk brown | 20 | 40 | | | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237580 | 451726 | 7098139 | | 28-Jun-12 | MQ | 35 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237581 | 451776 | 7098140 | | 28-Jun-12 | MQ | 15 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237582 | 451826 | 7098142 | | 28-Jun-12 | MQ | 30 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237583 | 451876 | 7098143 | | 28-Jun-12 | MQ | 35 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237584 | 451926 | 7098144 | | 28-Jun-12 | MQ | 30 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237585 | 451976 | 7098145 | | 28-Jun-12 | MQ | 25 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237586 | 452026 | 7098146 | | 28-Jun-12 | MQ | 30 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237587 | 452076 | 7098147 | | 28-Jun-12 | MQ | 35 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237588 | 452126 | 7098148 | | 28-Jun-12 | MQ | 25 | c | dk brown | 10 | 40 | | | | 50 | weathered bedrock | moist | evergreen forest | mid slope |
| 1237589 | 452176 | 7098150 | | 28-Jun-12 | MQ | 30 | c | dk brown | 20 | 40 | | | | 40 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241735 | 448736 | 7089924 | 755 | 29-Jun-12 | MQ | 50-60 | c | dk grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241736 | 448693 | 7089883 | 765 | 29-Jun-12 | MQ | 30-40 | b/c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241737 | 448652 | 7089860 | 776 | 29-Jun-12 | MQ | 40-50 | b/c | dk grey | 5 | 10 | | | | 85 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241738 | 448570 | 7089813 | 787 | 29-Jun-12 | MQ | 30-40 | c | dk grey | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241739 | 448486 | 7089765 | 798 | 29-Jun-12 | MQ | 30-40 | c | lt grey | | 10 | | 60 | | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241740 | 448407 | 7089706 | 806 | 29-Jun-12 | MQ | 30-40 | b/c | lt grey | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241741 | 448308 | 7089665 | 812 | 29-Jun-12 | MQ | 20-30 | b/c | dk brown | 20 | | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241742 | 448236 | 7089604 | 810 | 29-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241743 | 448155 | 7089531 | 806 | 29-Jun-12 | MQ | 40-50 | c | lt brown | | 20 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241744 | 448064 | 7089480 | 808 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 50 | | | | 50 | weathered bedrock | dry | evergreen forest | mid slope |
| 1241745 | 447978 | 7089438 | 805 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | 50 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241746 | 447885 | 7089406 | 806 | 29-Jun-12 | MQ | 30-40 | c | lt brown | 10 | 20 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241747 | 447785 | 7089366 | 802 | 29-Jun-12 | MQ | 20-30 | c | lt brown | 10 | 20 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241748 | 447701 | 7089320 | 764 | 29-Jun-12 | MQ | 30-40 | c | lt grey | 10 | 50 | | 40 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241749 | 447611 | 7089284 | 773 | 29-Jun-12 | MQ | 20-30 | b/c | dk grey | 30 | | | | | 70 | weathered bedrock | p/frozen | evergreen forest | mid slope |
| 1241750 | 447512 | 7089257 | 790 | 29-Jun-12 | MQ | 80+ | b/c | dk grey | 20 | | | | | 80 | weathered bedrock | saturated | evergreen forest | mid slope |
| 1241751 | 1241760 | 7089125 | 819 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | 50 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241752 | 447154 | 7089093 | 824 | 29-Jun-12 | MQ | 40-50 | b/c | dk grey | 10 | | | | | 90 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241753 | 447067 | 7089043 | 831 | 29-Jun-12 | MQ | 20-30 | b/c | lt grey | 10 | 20 | | | | 70 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241754 | 446967 | 7089009 | 845 | 29-Jun-12 | MQ | 30-40 | b/c | lt brown | 10 | 10 | | | | 80 | weathered bedrock | dry | evergreen forest | mid slope |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Depth (cm) | Horizon | Colour | Composition | | | | | | Parent Material | Moisture Content | Vegetation Cover | Topo Position |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Org-anics | Ang. Rock | Gra-vel | Sand | Silt | Clay | | | | |
| 1241755 | 446872 | 7088977 | 867 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 50 | | 50 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241756 | 446687 | 7088894 | 904 | 29-Jun-12 | MQ | 40-50 | c | lt grey | 10 | 10 | | | | 80 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240324 | 442656 | 7088342 | 726 | 29-Jun-12 | MQ | 20-30 | C | dk brown | | | | 50 | 30 | 20 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240325 | 442696 | 7088347 | 734 | 29-Jun-12 | MQ | 40-50 | C | dk grey | | | 10 | 50 | 20 | 20 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240326 | 442745 | 7088371 | 745 | 29-Jun-12 | MQ | 60-70 | C | lt brown | | | 10 | 50 | 20 | 20 | weathered bedrock | permafrost | evergreen forest | mid slope |
| 1240327 | 442786 | 7088400 | 756 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 50 | 30 | 20 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240328 | 442836 | 7088411 | 766 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 50 | 30 | 20 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240329 | 442881 | 7088426 | 777 | 29-Jun-12 | MQ | 40-50 | B | dk brown | | | | 30 | 40 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1240330 | 442930 | 7088450 | 791 | 29-Jun-12 | MQ | 40-50 | B | dk brown | | | | 30 | 40 | 30 | weathered bedrock | permafrost | deciduous forect | mid slope |
| 1240331 | 442974 | 7088474 | 800 | 29-Jun-12 | MQ | 50-60 | C | greenish grey | | | 20 | 40 | 20 | 20 | weathered bedrock | permafrost | evergreen forest | mid slope |
| 1240332 | 443022 | 7088498 | 812 | 29-Jun-12 | MQ | 40-50 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | permafrost | deciduous forect | mid slope |
| 1240333 | 443065 | 7088510 | 819 | 29-Jun-12 | MQ | 60-70 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | frozen | deciduous forect | mid slope |
| 1240334 | 443117 | 7088522 | 826 | 29-Jun-12 | MQ | >80 | C | lt brown | | 10 | | 40 | 30 | 20 | weathered bedrock | frozen | deciduous forect | mid slope |
| 1240335 | 443159 | 7088548 | 834 | 29-Jun-12 | MQ | 40-50 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240336 | 443206 | 7088563 | 842 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240337 | 443259 | 7088553 | 844 | 29-Jun-12 | MQ | 40-50 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240338 | 443303 | 7088555 | 847 | 29-Jun-12 | MQ | 20-30 | C | lt brown | | | | 30 | 40 | 30 | weathered bedrock | dry | deciduous forect | mid slope |
| 1240339 | 443355 | 7088543 | 848 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240340 | 443402 | 7088524 | 843 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240341 | 443456 | 7088524 | 842 | 29-Jun-12 | MQ | 60-70 | C | lt brown | | | | 50 | 30 | 20 | weathered bedrock | moist | deciduous forect | mid slope |
| 1240342 | 443504 | 7088517 | 836 | 29-Jun-12 | MQ | 40-50 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | dry | evergreen forest | mid slope |
| 1240343 | 443556 | 7088509 | 825 | 29-Jun-12 | MQ | 50-60 | B/C | dk brown | 10 | | | 30 | 30 | 30 | weathered bedrock | permafrost | evergreen forest | mid slope |
| 1240344 | 443599 | 7088493 | 825 | 29-Jun-12 | MQ | 30-40 | C | lt brown | | | | 40 | 30 | 30 | weathered bedrock | permafrost | evergreen forest | mid slope |
| 1240345 | 443646 | 7088484 | 822 | 29-Jun-12 | MQ | 30-40 | B/C | lt grey | | | | 30 | 40 | 30 | weathered bedrock | moist | evergreen forest | mid slope |
| 1241528 | 448612 | 7089832 | 778 | 29-Jun-12 | MQ | 40-50 | c | lt grey | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241529 | 448527 | 7089781 | 792 | 29-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241530 | 448429 | 7089735 | 804 | 29-Jun-12 | MQ | 30-40 | c | lt grey | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241531 | 448349 | 7089683 | 812 | 29-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241532 | 448259 | 7089620 | 813 | 29-Jun-12 | MQ | 30-40 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241533 | 448175 | 7089563 | 808 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241534 | 448088 | 7089505 | 809 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241535 | 448015 | 7089455 | 803 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241536 | 447926 | 7089433 | 812 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241537 | 447822 | 7089384 | 805 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241538 | 447749 | 7089344 | 786 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241539 | 447652 | 7089317 | 764 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 10 | | 90 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241540 | 447553 | 7089253 | 780 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241541 | 447472 | 7089221 | 797 | 29-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241542 | 447381 | 7089185 | 808 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241543 | 447280 | 7089125 | 815 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241544 | 447199 | 7089121 | 828 | 29-Jun-12 | MQ | 30-40 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241545 | 447099 | 7089081 | 840 | 29-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | | 70 | | | weathered bedrock | moist | evergreen forest | mid slope |
| 1241546 | 447025 | 7089038 | 848 | 29-Jun-12 | MQ | 20-30 | c | lt grey | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241547 | 446921 | 7088997 | 851 | 29-Jun-12 | MQ | 20-30 | c | lt grey | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241548 | 446807 | 7088963 | 864 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241549 | 446775 | 7088929 | 861 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 30 | | 70 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241550 | 446742 | 7088918 | 859 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 40 | | 60 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1241551 | 446640 | 7088882 | 853 | 29-Jun-12 | MQ | 20-30 | c | lt brown | | 20 | | 80 | | | weathered bedrock | dry | evergreen forest | mid slope |
| 1239514 | 448481 | 7088818 | | | MQ | 60-70 | c | lt brown | | | | | | | weathered bedrock | dry | evergreen forest | mid slope |

Appendix II: Silt Sample Descriptions

# Goodman Property Sample Descriptions

UTM NAD 83 Zone 8

## SILT SAMPLES

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Sample Environment | Medium | Medium depth (m) | Medium width (m) | Bank type | Water colour | Vegetation cover |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1238408 | 449798 | 7095322 | 713 | 15-Jun-12 | MQ | low energy | creek | 0.3 | 1.5 | organic | clear | buck brush |
| 1238409 | 451968 | 7094407 | 806 | 16-Jun-12 | MQ | low energy | creek | 0.1 | 0.5 | organic | clear | buck brush |
| 1239501 | 448772 | 7092991 | 856 | 16-Jun-12 | MQ | low energy | creek | 0.1 | 0.5 | sandy | clear | buck brush |
| 1239502 | 448781 | 7092854 | 843 | 16-Jun-12 | MQ | high energy | creek | 0.2 | 0.5 | organic | clear | tag alders |
| 1239503 | 449041 | 7091982 | 746 | 16-Jun-12 | MQ | low energy | creek | 0.25 | 1 | organic | semi clear | buck brush |
| 1239504 | 449287 | 7091680 | 710 | 16-Jun-12 | MQ | medium energy | creek | 0.3 | 0.5 | organic | clear | tag alders |
| 1239505 | 451829 | 7098814 | 811 | 17-Jun-12 | MQ | low energy | creek | 0.3 | 2 | organic | clear | buck brush |
| 1239506 | 448689 | 7091157 | 756 | 18-Jun-12 | MQ | low energy | trickle | 0.1 | 0.3 | organic | clear | buck brush |
| 1239507 | 449297 | 7091333 | 697 | 18-Jun-12 | MQ | medium energy | creek | 0.3 | 1 | organic | clear | buck brush |
| 1238749 | 448915 | 7091470 | 744 | 18-Jun-12 | MQ | low energy | creek |  |  | organic | clear | buck brush |
| 1234810 | 437954 | 7086482 | 898 | 19-Jun-12 | MQ | low energy | trickle | 0.5 | 0.1 | organic | clear | buck brush |
| 1238411 | 438580 | 7086327 | 823 | 19-Jun-12 | MQ | low energy | creek | 0.1 | 0.5 | organic | clear | buck brush |
| 1238412 | 438610 | 7085819 | 776 | 19-Jun-12 | MQ | low energy | creek | 0.3 | 0.3 | organic | clear | buck brush |
| 1238413 | 438608 | 7085511 | 736 | 19-Jun-12 | MQ | low energy | creek | 0.5 | 0.5 | organic | clear | buck brush |
| 1238414 | 438426 | 7085273 | 898 | 19-Jun-12 | MQ | low energy | creek | 0.1 | 0.1 | organic | clear | buck brush |
| 1238415 | 434548 | 7088652 | 896 | 21-Jun-12 | MQ | low energy | creek | 0.5 | 1 | organic | clear | buck brush |
| 1238416 | 434420 | 7088345 | 882 | 21-Jun-12 | MQ | low energy | creek | 0.5 | 1 | organic | clear | buck brush |
| 1239508 | 441763 | 7088800 | 736 | 21-Jun-12 | MQ | low energy | creek | 0.05 | 0.5 | organic | clear | buck brush |
| 1239509 | 441900 | 7088898 | 693 | 21-Jun-12 | MQ | low energy | creek | 0.2 | 1.5 | organic | clear | buck brush |
| 1239897 | 444163 | 7092408 | 847 | 21-Jun-12 | MQ | low energy | creek |  |  | organic | clear | buck brush |
| 1205951 | 452895 | 7094155 | 820 | 28-Jun-12 | MQ | low energy | trickle | 0.1 | 0.2 | organic | clear | buck brush |
| 1241141 | 441641 | 7089374 |  | 29-Jun-12 | MQ | low energy | creek | 0.4 | 1 | organic | clear | buck brush |
| 1241142 | 441700 | 7089437 | 740 | 29-Jun-12 | MQ | low energy | creek | 0.15 | 1.5 | organic | clear | buck brush |
| 1241143 | 441743 | 7089506 | 749 | 29-Jun-12 | MQ | low energy | creek | 0.1 | 0.7 | organic | clear | buck brush |
| 1241144 | 441850 | 7089612 | 764 | 29-Jun-12 | MQ | low energy | creek | 0.3 | 1.6 | organic | clear | buck brush |
| 1241145 | 441966 | 7089715 | 780 | 29-Jun-12 | MQ | low energy | creek | 0.3 | 1.2 | organic | clear | buck brush |
| 1241146 | 442061 | 7089812 |  | 29-Jun-12 | MQ | low energy | creek | 0.1 | 1.6 | organic | clear | buck brush |
| 1241147 | 442391 | 7090121 | 834 | 29-Jun-12 | MQ | low energy | creek | 0.4 | 1.3 | organic | clear | buck brush |
| 1241148 | 442510 | 7090221 |  | 29-Jun-12 | MQ | low energy | creek | 0.1 | 1 | organic | clear | buck brush |
| 1239512 | 440371 | 7089654 | 761 | 29-Jun-12 | MQ | med energy | creek | 0.4 | 1 | organic | clear | buck brush |

Appendix III: Rock Sample Descriptions

# Goodman Property Sample Descriptions

UTM NAD 83 Zone 8

abbreviations: py - pyrite, cpy - chalcopyrite, OC - outcrop, QV - quartz vein, qtz - quartz, cal - calcite, chl - chlorite, fg - fine grained, mg - medium grained, metased - metasediment

**ROCK SAMPLES**

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205601 | 450113 | 7098292 | 1177 | 15-Jun-12 | MQ | talus chips | talus rock chips of metasedimentss, tan-brown, rusty, aphanitic, sulfur smell, weathered out sulphides |
| 1205602 | 450118 | 7098284 | 1177 | 15-Jun-12 | MQ | talus chips | Chips from same area as above, but appear to be very altered intrusive. Or possibly conglomerate. 2mm white phenos altered to very soft talc or kaolinite with 1mm limonitic vein |
| 1205603 | 450097 | 7098287 | 1174 | 15-Jun-12 | MQ | outcrop | 285/28/N, well foliated schist metased, no veining, grey on fresh surface, possibly more like quartzite |
| 1205604 | 450138 | 7098300 | 1175 | 15-Jun-12 | MQ | talus chips | qtz vein talus float, rustly smells of sulfur when broken, no min. |
| 1205605 | 450137 | 7098239 | 1175 | 15-Jun-12 | MQ | outcrop | 260/40/N. quartzite with 30cm qtz vein going with foliation, sample is mostly qv matieral , host of well foliated quartzite w schist |
| 1205606 | 450213 | 7098211 | 1167 | 15-Jun-12 | MQ | talus chips trench | trench area done with dozer about 50m long and 10m wide, talus chips, chlorite schist. Sample is QV material with MnO+limonite and remnant sulphides |
| 1205607 | 450204 | 7098243 | 1161 | 15-Jun-12 | MQ | talus chips trench | Breccia, part foliated chl schist, with disoriented sections of schist (brittle fracturing) and part quartz vein breccia |
| 1205608 | 450205 | 7098279 | 1156 | 15-Jun-12 | MQ | talus chips trench | QV slightly brecciated, some metallics and remnant py vugs |
| 1205609 | 450192 | 7098326 | 1152 | 15-Jun-12 | MQ | talus chips trench | north edge of trench. Quartzite metaseds with rainbow iron staining or bornite. MnO vugs, black infilling, looks arsenic rich |
| 1205610 | 450306 | 7098051 | 1121 | 15-Jun-12 | MQ | talus | brown mica schist, well foliated, single talus boulder (1ft) with 0.5cm qtz veinlet, limonitic |
| 1205611 | 450386 | 7098004 | 1092 | 15-Jun-12 | MQ | talus boulder | qtz boulder, 50cm around, rusty, slightly brecciated, vuggy, no min |
| 1205612 | 450444 | 7097843 | 1054 | 15-Jun-12 | MQ | small talus | mica schist, silvery metallics, partially brecciated, oxidized |
| 1205613 | 450316 | 7097277 | 1055 | 15-Jun-12 | MQ | subcrop | grey aphanitic cert with 4cm QV |
| 1205614 | 450244 | 7097085 | 1029 | 15-Jun-12 | MQ | buried float | gneissic with cherty GM, elongated blue qtz eyes, white phenos, very soft altered to talc or kaolinite |
| 1205615 | 449141 | 7093785 | 1139 | 16-Jun-12 | MQ | talus | hand pit, talus chips, metased quartzite grey-beige fg |
| 1205616 | 449007 | 7093736 | 1135 | 16-Jun-12 | MQ | talus | hand pit, reddish brown soil, grey-red quartzite, very silicious, foliated |
| 1205617 | 449005 | 7093612 | 1089 | 16-Jun-12 | MQ | talus | hillside, foliated mica schist-quartzite with 0.5cm limonitic seam, remnant sulphides |
| 1205618 | 449009 | 7093600 | 1084 | 16-Jun-12 | MQ | talus | 50cm quartz boulder, re-silicified? Cherty texture, rusty brown fractures, remnant sulphides vugs |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205619 | 449073 | 7093334 | 991 | 16-Jun-12 | MQ | talus | hand pit, cherty quartzite, rusty, grey, foliated, no min |
| 1205620 | 448994 | 7093126 | 916 | 16-Jun-12 | MQ | talus | quartzite or silicified slate with soft, white porphyroclasts of talc? Oxidized, foliated |
| 1205621 | 448812 | 7092934 | 852 | 16-Jun-12 | MQ | talus | quartz talus, 20 cm sitting in creek, rusty, remnant sulphide vugs and seams |
| 1205622 | 452274 | 7098584 | 965 | 17-Jun-12 | MQ | talus | quartzite, brown, oxidized, moderate foliation |
| 1205623 | 452195 | 7098599 | 939 | 17-Jun-12 | MQ | talus | quartz talus, vuggy, rusty |
| 1205624 | 452180 | 7098595 | | 17-Jun-12 | MQ | talus | quartz vein talus with intercalated graphite schist |
| 1205625 | 452140 | 7098617 | 916 | 17-Jun-12 | MQ | talus | fg-mg equigranular altered intrusive? Or quartzite. Completely rusty brown oxidized weathered |
| 1205626 | 452128 | 7098622 | 911 | 17-Jun-12 | MQ | talus | quartz talus wutg black-grey metallics and rusty seams |
| 1205627 | 451878 | 7098777 | 825 | 17-Jun-12 | MQ | talus | buried talus, brown quartzite with 1-2cm quartz vein with some silvery metallics, possibly aspy. Small scale fold hinge |
| 1205628 | 451825 | 7098874 | 815 | 17-Jun-12 | MQ | talus | quartz talus on trail, very vuggy with remnant sulphides and MnO |
| 1205629 | 451790 | 7098791 | 813 | 17-Jun-12 | MQ | talus | mg altered intrusive or quartzite. Grey, rusty remnant sulphides, blue quartz eyes, weak foliation |
| 1205630 | 451685 | 7098557 | 798 | 17-Jun-12 | MQ | talus | quartz talus. Smells of sulfur when broken, remnant sulphide vugs |
| 1205631 | 451521 | 7098389 | 793 | 17-Jun-12 | MQ | talus | very oxidized weathered through. Breccia? Dark MnO, limonitic. 4mm clasts of quartz? |
| 1205632 | 451742 | 7098328 | 826 | 17-Jun-12 | MQ | OC-sub | 1x1 OC, crenulated phyllite or mica schist, oxidized, 1cm QV crosscutting foliation. ~275 degree strike with shallow dip |
| 1205633 | 452102 | 7098325 | 942 | 17-Jun-12 | MQ | talus | quartzite, moderate foliation, brown, oxidized, weathered |
| 1205634 | 452328 | 7098382 | 994 | 17-Jun-12 | MQ | talus | quartz float. Recrystallized, brown throughout, graphite. Obvious remnant sulphides, MnO, dark metallics |
| 1205635 | 452418 | 7098483 | 997 | 17-Jun-12 | MQ | talus | gravel pit near addit, 30x50 cleared area. 10% py, sulfur, bornite, dark, heavy. Fresh surface is light grey seds? |
| 1205636 | 452413 | 7098501 | 997 | 17-Jun-12 | MQ | talus | similar but more massive py, very oxidized |
| 1205637 | 452419 | 7098520 | 995 | 17-Jun-12 | MQ | talus | near addit. Fresher, green-grey with quartz and abundant sulphides. Py, aspy, galena |
| 1205638 | 452417 | 7098522 | 993 | 17-Jun-12 | MQ | talus | similar to 5637 but with much more yellow sulfur staining. Strike at addit appears to be ~300 degrees dipping 50 N. folding is obvious |
| 1205639 | 448313 | 7091093 | 802 | 18-Jun-12 | MQ | talus | granite talus, somewhat rounded. Med gr, equigran, 1cm rusty spots, white, biotite rich |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205640 | 448302 | 7091098 | 806 | 18-Jun-12 | MQ | talus | quartz vein material with graphitic metaseds interbedded |
| 1205641 | 448301 | 7091080 | 820 | 18-Jun-12 | MQ | talus | quartz vein with metaseds on mudslide in some very red soil |
| 1205642 | 448388 | 7091020 | 812 | 18-Jun-12 | MQ | talus | gravel pit outwash from large mud/gravel slide. Very oxidized weathered material, possibly breccia, red/brown/purple, like sed origin |
| 1205643 | 449508 | 7091331 | 670 | 18-Jun-12 | MQ | outcrop | ridge by placer stream. Well foliated schist with quartz veining mostly crosscutting foliation. Some possible trace sulphides in the veining. 280/18/N |
| 1205644 | 448274 | 7091124 | 678 | 18-Jun-12 | MQ | talus slide | collected by shae. Well oxidized metased, some conglomerate with potential trace py |
| 1205645 | 437656 | 7086734 | 1141 | 19-Jun-12 | MQ | talus | 30 cm quartz boulder, minor rusty seams. Dark graphitic seds with pyrite mineralization, 1-2mm grains |
| 1205646 | 437671 | 7086701 | 1140 | 19-Jun-12 | MQ | talus | light grey metaseds, quartzite or possibly greywacke, almost looks rhyolitic. 4cm quartz vein with rusty margins. Very fine sulphides in host rock |
| 1205647 | 437680 | 7086675 | 1131 | 19-Jun-12 | MQ | talus | boulder, grey quartzite with multiple 1cm quartz veins, many with foliation, some crosscutting. Both sets with remnant sulphides, rust |
| 1205648 | 437689 | 7086654 | 1125 | 19-Jun-12 | MQ | talus | 50cm boulder of grey quartzite with multiple QVs similar to 5647. Good pyrite mineralization, small aggregates of grains <1cm. Rusty, MnO. Quartzite is fairly fresh and light grey |
| 1205649 | 437736 | 7086031 | 998 | 19-Jun-12 | MQ | talus | dug pit 2ft, possibly to bedrock. This sample is chips from bottom of pit, possibly bedrock, oxidized quartzite |
| 1205650 | 437736 | 7086032 | 998 | 19-Jun-12 | MQ | talus | from pit 5649. talus from mid pit, similar quartzite with QV |
| 1205651 | 437886 | 7085633 | 918 | 19-Jun-12 | MQ | talus | shoveled pit 1 ft deep, hit permafrost. Rock at bottom possibly bedrock. Mica schist or quartzite. Oxidized |
| 1205652 | 438390 | 7084892 | 740 | 19-Jun-12 | MQ | outcrop | 10x5 ridge, well foliated quartzite or schist or possibly sandstone. Up to 10cm QVs, but quite deformed. Small 10cm rounded inclusion. This sample is QV, rusty. 260/28/N |
| 1205653 | 438390 | 7084890 | 739 | 19-Jun-12 | MQ | outcrop | same OC as above, this sample of host rock with some calcite? Precipitate. |
| 1205654 | 443826 | 7090216 | 1171 | 20-Jun-12 | MQ | talus | quartzite, gre-tan with rusty seams and MnO. Small 2cm are of py mineralization within black MnO or limonite |
| 1205655 | 443325 | 7090048 | 1074 | 20-Jun-12 | MQ | talus | small hand pit, chips of schist, quartzite, and quartz, with some dark green diorite |
| 1205656 | 443222 | 7090020 | 1060 | 20-Jun-12 | MQ | talus | quartzite with deformed quartz veining, graphitic interbedding with silvery metallics in the qtz |
| 1205657 | 442680 | 7089382 | 873 | 20-Jun-12 | MQ | outcrop | 4x2 ridge. Quartzite with abundant quartz veining up to 5cm wide. Fairly deformed. Sample is mostly quartz vein. Quartzite is well foliated 305/16/N |
| 1205658 | 442575 | 7089338 | 863 | 20-Jun-12 | MQ | outcrop | quartzite or schist with quartz veining up to 10 cm. sample is of quartz vein with fine galena on margins with rust. Vein is in a fold axis |
| 1205659 | 442578 | 7089336 | 856 | 20-Jun-12 | MQ | outcrop | same vein is5658 but with cpy and minor galena |
| 1205660 | 442558 | 7089320 | 843 | 20-Jun-12 | MQ | outcrop | huge outcrop. Deformed quartz veining mixing with quartzite-schist host. Vey rusty, remnant large py grains, some silvery metallics, possible galena. Small scale open folds axes trending 305/10 |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205661 | 442529 | 7089303 | 849 | 20-Jun-12 | MQ | outcrop | chlorite schist, 1 ft layer of yellow-red schist, sample is from here. |
| 1205662 | 441668 | 7088767 | 767 | 21-Jun-12 | MQ | outcrop | huge quartzite outcrop, 8m tall by 10m, multiple small scale folds, deformations. Quartz collects in nodes and noses of foldes. This sample is 50/50 quartz and rusty, silicified quartzite host. Minor galena in rusty spots, possible siderite. |
| 1205663 | 441668 | 7088769 | 767 | 21-Jun-12 | MQ | outcrop | same OC as 5662, one meter away, QV with siderite, calcite in 2cm aggregate |
| 1205664 | 441606 | 7088745 | 782 | 21-Jun-12 | MQ | outcrop | uphill from 5663 another outcrop ridge, 270/38/N. recrystallized 10-15 cm QV with quartzite and mica schist. Rusty, some calcite, possible sphalerite? |
| 1205665 | 441686 | 7088774 | 748 | 21-Jun-12 | MQ | outcrop/sub | downhill from above, possibly outcrop, 1-3cm quartz veining, host is silicified and bleached with rust in the foliation. Deformed, folded. Py or aspy in quartz on top of small black cubic limonite? |
| 1205751 | 450190 | 7098326 | 1163 | 15-Jun-12 | MQ | float | igneous intrusive with bournite stains |
| 1205752 | 449951 | 7098270 | 1139 | 15-Jun-12 | MQ | outcrop | schists with quartz vein that is brecciated |
| 1205753 | 450153 | 7098177 | 1168 | 15-Jun-12 | MQ | float | rusty stains on quartz |
| 1205754 | 450133 | 7098178 | 1168 | 15-Jun-12 | MQ | outcrop | rusty quartz with metalic stains, |
| 1205755 | 450092 | 7098157 | 1149 | 15-Jun-12 | MQ | outcrop | brecciated quartz with rust stains |
| 1205756 | 450028 | 7098083 | 1111 | 15-Jun-12 | MQ | float | rusty quartzite/mica schist |
| 1205757 | 450094 | 7097914 | 1094 | 15-Jun-12 | MQ | float | recrystalized schist with druze quartz |
| 1205758 | 450139 | 7097826 | 1096 | 15-Jun-12 | MQ | float | recrystalized schist high in silicia very hard to break |
| 1205759 | 450473 | 7097560 | 1043 | 15-Jun-12 | MQ | outcrop | quartz vein cutting through recrystalized schist some breccia zones |
| 1205760 | 450581 | 7097094 | 1077 | 15-Jun-12 | MQ | float | quartz with rust stains |
| 1205761 | 450097 | 7096282 | 924 | 15-Jun-12 | MQ | float | rusty recrystalized quartzite with schist |
| 1205762 | 449812 | 7096165 | 848 | 15-Jun-12 | MQ | float | recrystalized schist |
| 1205763 | 449771 | 7096208 | 851 | 15-Jun-12 | MQ | float | schist with quartz eyes and rust stains |
| 1205764 | 449296 | 7093817 | 1142 | 16-Jun-12 | MQ | float | quartz with rust stains |
| 1205765 | 449461 | 7093557 | 1123 | 16-Jun-12 | MQ | float | quartz and mica schist |
| 1205766 | 449261 | 7093673 | 1139 | 16-Jun-12 | MQ | float | quartz with rust stains |
| 1205767 | 449185 | 7093533 | 1085 | 16-Jun-12 | MQ | float | rusty mica schist |
| 1205768 | 449576 | 7093321 | 1049 | 16-Jun-12 | MQ | foat | quartz with rust stains |
| 1205769 | 450006 | 7093251 | 985 | 16-Jun-12 | MQ | float | rusty mica schist |
| 1205770 | 450140 | 7093268 | 961 | 16-Jun-12 | MQ | float | quartz with rust stains |
| 1205771 | 450311 | 7093113 | 881 | 16-Jun-12 | MQ | float | rusty mica schist |
| 1205772 | 450552 | 7092671 | 760 | 16-Jun-12 | MQ | float | quartz with rust stains |
| 1205773 | 450590 | 7092629 | 744 | 16-Jun-12 | MQ | float | very rusty quartz |
| 1205774 | 449409 | 7091597 | 754 | 17-Jun-12 | MQ | outcrop | rusty quartz in mica schist |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205775 | 449392 | 7091685 | 768 | 17-Jun-12 | MQ | outcrop | rust stains on chert like quartz |
| 1205776 | 449273 | 7092382 | 792 | 17-Jun-12 | MQ | float | conglomerate |
| 1205777 | 448880 | 7092477 | 842 | 17-Jun-12 | MQ | float | rusty quartz |
| 1205778 | 448858 | 7092421 | 859 | 17-Jun-12 | MQ | float | rust stains on on glassy almost blue quartz |
| 1205779 | 448692 | 7091462 | 742 | 17-Jun-12 | MQ | float | mix of quartz and schist |
| 1205780 | 448703 | 7091384 | 742 | 17-Jun-12 | MQ | float | white quartz with tan colored calcite |
| 1205781 | 448982 | 7091437 | 737 | 18-Jun-12 | MQ | float | rust stains on recrystalized schist almost quartzite |
| 1205782 | 448858 | 7091646 | 761 | 18-Jun-12 | MQ | float | recrystalized schist with calcite precipitations (hotspring like deposit) |
| 1205783 | 448871 | 7091649 | 764 | 18-Jun-12 | MQ | float | schist and quartzite |
| 1205784 | 448849 | 7091653 | 762 | 18-Jun-12 | MQ | float | minor sulphides possibly pyrite in quartzite |
| 1205785 | 448490 | 7091500 | 787 | 18-Jun-12 | MQ | float | quartzite with 1 mm rust veins |
| 1205786 | 448391 | 7091539 | 815 | 18-Jun-12 | MQ | float | quartz with rust stains |
| 1205787 | 448281 | 7091536 | 850 | 18-Jun-12 | MQ | float | rusty quartzite/mica schist |
| 1205788 | 448171 | 7091485 | 868 | 18-Jun-12 | MQ | outcrop | quartz and quartzite with calcite with really small sulphides, bournite chalcopyrite |
| 1205789 | 448173 | 7091485 | 867 | 18-Jun-12 | MQ | outcrop | 10 cm quartz veins in schist/quartzite with sulphides |
| 1205790 | 448172 | 7091493 | 862 | 18-Jun-12 | MQ | outcrop | sulphides possibly arsenopyrite in 15 cam quartz vein in quartzite/calc siliciate rock |
| 1205791 | 447906 | 7091487 | 938 | 18-Jun-12 | MQ | float | quartzite with rust stains |
| 1205792 | 447707 | 7091319 | 919 | 18-Jun-12 | MQ | float | rust stains on quartzite |
| 1205793 | 437369 | 7087650 | 1073 | 19-Jun-12 | MQ | outcrop | quartz with rust stains |
| 1205794 | 437835 | 7088078 | 1022 | 19-Jun-12 | MQ | float | schist/recrystalized schist with rust stains and small quartz seams |
| 1205795 | 437967 | 7088601 | 996 | 19-Jun-12 | MQ | float | quartzite with small cavities and rust stains |
| 1205796 | 438052 | 7088849 | 983 | 19-Jun-12 | MQ | float | intrusive rock either monzonite or granidorite |
| 1205797 | 438055 | 7088849 | 983 | 19-Jun-12 | MQ | float | rusty quartzite with small sulphides |
| 1205798 | 438063 | 7088809 | 985 | 19-Jun-12 | MQ | float | rusty quartzite |
| 1205799 | 438045 | 7088904 | 975 | 19-Jun-12 | MQ | float | sulphides in rusty quartzite possibly pyrite |
| 1205800 | 438099 | 7088867 | 982 | 19-Jun-12 | MQ | float | rusty quartzite |
| 1205801 | 438026 | 7088804 | 986 | 19-Jun-12 | MQ | float | rusty quartzite with small quartz veins |
| 1205802 | 438461 | 7088964 | 967 | 19-Jun-12 | MQ | float | rusty quartz and quartzite |
| 1205803 | 438170 | 7088950 | 973 | 19-Jun-12 | MQ | float | rusty schist and quartz |
| 1205804 | 439754 | 7087077 | 1051 | 20-Jun-12 | MQ | float | rust stains on quartz |
| 1205805 | 440150 | 7086758 | 910 | 20-Jun-12 | MQ | float | rust stains on quartz |
| 1205806 | 440293 | 7086618 | 826 | 20-Jun-12 | MQ | float | quartz with small cavities packed with rust |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205807 | 440329 | 7086513 | 824 | 20-Jun-12 | MQ | float | quartz with small cavities packed with rust |
| 1205808 | 440285 | 7086228 | 783 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205809 | 440263 | 7086042 | 733 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205810 | 440376 | 7086033 | 748 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205811 | 440310 | 7085820 | 667 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205812 | 440443 | 7085590 | 660 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205813 | 441109 | 7085795 | 629 | 20-Jun-12 | MQ | float | quartz with rust stains |
| 1205814 | 441224 | 7085866 | 623 | 20-Jun-12 | MQ | float | quartz with rust stains with some small visible galena |
| 1205815 | 441224 | 7085931 | 656 | 21-Jun-12 | MQ | float | quartz with some rust stains |
| 1205816 | 441346 | 7086122 | 699 | 21-Jun-12 | MQ | float | quartz with rust and square black metalic mineral, possibly flattened sulphides |
| 1205817 | 441405 | 7086318 | 757 | 21-Jun-12 | MQ | float | quartz with rust stains |
| 1205818 | 441432 | 7086459 | 788 | 21-Jun-12 | MQ | float | quartz barely any rust |
| 1205819 | 441464 | 7086564 | 811 | 21-Jun-12 | MQ | float | quartz with rust stains |
| 1205820 | 441639 | 7086781 | 825 | 21-Jun-12 | MQ | float | quartz with rust stains |
| 1205821 | 441904 | 7087085 | 841 | 21-Jun-12 | MQ | float | quartz with rust stains |
| 1205822 | 442039 | 7087107 | 805 | 21-Jun-12 | MQ | float | schist with veins of quartz with rust |
| 1205823 | 442251 | 7087403 | 814 | 21-Jun-12 | MQ | float | quartz with rust stains |
| 1205851 | 449623 | 7091816 | 814 | 16-Jun-12 | MQ | outcrop | muscovite-biotite-chlorite schist with minor quartz, accessory bornite |
| 1205852 | 449528 | 7091398 | 703 | 16-Jun-12 | MQ | float | muscovite-chlorite schist with oxide minerals along fractures |
| 1205853 | 437563 | 7086510 | 1116 | 20-Jun-12 | MQ | float | 4ft pit at sample 1225496, mixed muscovite schist and quartzite with muscovite porphyroblasts, folded, highly oxidized including oxide pits |
| 1205854 | 437618 | 7086375 | 1086 | 20-Jun-12 | MQ | float | 3ft pit at sample 1225499, mixed muscovite schist and quartzite with galena and possibly epidote |
| 1205855 | 437708 | 7086041 | 1004 | 20-Jun-12 | MQ | float | 3ft pit at sample 1225506, muscovite schist with minimal quartz, extensive oxide staining |
| 1205856 | 437886 | 7085672 | 920 | 20-Jun-12 | MQ | float | 2ft pit to permafrost at sample 1225514, muscovite schist and quartzite with vein quartz, oxide staining and galena |
| 1205857 | 437892 | 7085625 | 909 | 20-Jun-12 | MQ | float | 2ft pit to solid ice at sample 1225515, green/white/pink quartzite with some muscovite-chlorite schist, oxide staining and galena |
| 1205858 | 438418 | 7084743 | 709 | 20-Jun-12 | MQ | float | 3ft pit at sample 1225535, mixed quartzite and muscovite schist, oxide staining and galena. Note: some float was rounded |
| 1205859 | 443967 | 7090853 | 1179 | 21-Jun-12 | MQ | float | yellow to red stained rusty quartzite with manganese oxides and accessory galena |
| 1205860 | 443549 | 7091433 | 1135 | 21-Jun-12 | MQ | outcrop | muscovite-chlorite schist with oxides, 290/19NE |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1205861 | 443514 | 7091569 | 1147 | 21-Jun-12 | MQ | subcrop | quartzite, heavily oxidized with pits |
| 1205862 | 443253 | 7091626 | 1153 | 21-Jun-12 | MQ | float | muscovite/biotite bearing quartzite, minimal oxidation |
| 1205863 | 443232 | 7091942 | 1101 | 21-Jun-12 | MQ | float | mixed muscovite-biotite schist and quartzite with some vein quartz, halo-shaped mineralization, accessory galena |
| 1205864 | 443231 | 7092017 | 1080 | 21-Jun-12 | MQ | outcrop | quartzite with muscovite-biotite-chlorite schist and vein quartz, oxides, kaolinite |
| 1205898 | 453476 | 7094396 | 835 | 28-Jun-12 | MQ | float | 2ft pit, green to grey quartzite with micas, oxides in bands and pits |
| 1205899 | 453233 | 7094277 | 823 | 28-Jun-12 | MQ | float | 2ft pit under uprooted tree, till, quartz with chlorite, iron and manganese oxides |
| 1205900 | 453058 | 7094198 | 828 | 28-Jun-12 | MQ | float | heavily oxidized quartz with graphite |
| 1205952 | 452730 | 7093958 | 804 | 28-Jun-12 | MQ | float | 4ft  pit, till, quartz with bornite and some oxidation |
| 1205953 | 443608 | 7088521 |  | 29-Jun-12 | MQ | float | 1ft minipit, grey quartzite with vein quartz, iron and maganese oxides |
| 1205954 | 443645 | 7088421 | 811 | 29-Jun-12 | MQ | float | 1ft minipit, mixed quartzite and mica schist cut by vein quartz, oxidized |
| 1205955 | 443670 | 7088330 | 795 | 29-Jun-12 | MQ | float | 2ft minipit, rusty vein quartz with oxide pits and iron/manganese oxides |
| 1206001 | 449237 | 7093776 | 1145 | 15-Jun-12 | MQ | float | mica schist, oxidized |
| 1206002 | 449224 | 7093864 | 1139 | 15-Jun-12 | MQ | float | mica-quartz schist |
| 1206003 | 449372 | 7094005 | 1091 | 15-Jun-12 | MQ | float | mica schist and quartz |
| 1206004 | 449417 | 7094012 | 1076 | 15-Jun-12 | MQ | outcrop | mica-quartz-chlorite schist + quartz float |
| 1206005 | 449453 | 7093978 | 1078 | 15-Jun-12 | MQ | float | quartz/phyllite contact, mica foliations, oxidation in the quartz |
| 1206006 | 449467 | 7093904 | 1093 | 15-Jun-12 | MQ | float | quartzite/schist, with biotite and quartz porphyroblasts, found on a fault with strike: 44 degrees |
| 1206007 | 449597 | 7093794 | 1099 | 15-Jun-12 | MQ | float | quartzite/schist, with biotite and quartz porphyroblasts, found on a fault with strike: 44 degrees |
| 1206008 | 449747 | 7093902 | 1051 | 15-Jun-12 | MQ | float | quartzite/schist with 1-5mm quartz porphyroblasts |
| 1206009 | 449807 | 7093962 | 1039 | 15-Jun-12 | MQ | float | quartzite/schist, disseminated pyrite cubes |
| 1206010 | 449833 | 7094351 | 916 | 15-Jun-12 | MQ | float | quartz/biotite schist, biotite foliations |
| 1206011 | 449917 | 7094570 | 868 | 15-Jun-12 | MQ | float | schist, buried float, foliated |
| 1206012 | 449881 | 7094672 | 841 | 15-Jun-12 | MQ | float | chlorite-biotite schist, possible contact between metamorphics, greeen color |
| 1206013 | 450066 | 7094831 | 778 | 15-Jun-12 | MQ | float | chlorite-biotite schist and quartz, found in small spring |
| 1206014 | 449924 | 7095248 | 717 | 15-Jun-12 | MQ | float | chlorite-biotite schist |
| 1206015 | 453553 | 7095577 | 1143 | 16-Jun-12 | MQ | float | quartz with sulfide mineralization, found with chlorite-biotite-schist and quartzite/phyllite |
| 1206016 | 453569 | 7095578 | 1141 | 16-Jun-12 | MQ | float | quartz/chlorite schist with powder mins (calcite or talc) |
| 1206017 | 453629 | 7095585 | 1134 | 16-Jun-12 | MQ | float | phyllite with pink groundmass, wavy, foliated, and chlorite schist with 1-5mm weathered quartz veins |
| 1206018 | 453392 | 7095430 | 1139 | 16-Jun-12 | MQ | float | chlorite schist, highly oxidized |
| 1206019 | 453301 | 7095367 | 1120 | 16-Jun-12 | MQ | float | chlorite schist and quartz, biotite and quartz porphyroblasts on schist, oxidized |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1206020 | 453107 | 7095304 | 1127 | 16-Jun-12 | MQ | outcrop | phyllite/chlorite contact, phyllite is wavy, outcrop: strike 264 degrees/14 degree dip North |
| 1206021 | 453038 | 7095308 | 1130 | 16-Jun-12 | MQ | outcrop | quartzite/chlorite schist with 1-3cm quartz veins, oxidized |
| 1206022 | 453001 | 7095207 | 1092 | 16-Jun-12 | MQ | float | quartzite/chlorite schist, mica foliations |
| 1206023 | 452988 | 7095103 | 1063 | 16-Jun-12 | MQ | float | chlorite-biotite schist and oxidized quartz |
| 1206024 | 453586 | 7094894 | 971 | 16-Jun-12 | MQ | float | chlorite/quartzite schist |
| 1206025 | 453655 | 7094945 | 968 | 16-Jun-12 | MQ | outcrop | quartzite/chlorite schist with sulfide mineralization |
| 1206026 | 453006 | 7094797 | 975 | 16-Jun-12 | MQ | float | chlorite schist, oxidized |
| 1206027 | 452988 | 7094795 | 971 | 16-Jun-12 | MQ | float | chlorite schist and quartz, sulfide mineralization |
| 1206028 | 452579 | 7094746 | 942 | 16-Jun-12 | MQ | float | quartz/quartzite, biotite, porphyro's, oxidized |
| 1206029 | 451808 | 7093986 | 739 | 16-Jun-12 | MQ | float | chlorite schist with quartz porphyroblasts |
| 1206030 | 437691 | 7086900 | 1132 | 19-Jun-12 | MQ | float | quartz boulder, oxidized, pyrite |
| 1206031 | 437740 | 7086829 | 1138 | 19-Jun-12 | MQ | float | quartz, oxidized, pyrite, in host quartzite/phyllite |
| 1206032 | 437729 | 7086694 | 1128 | 19-Jun-12 | MQ | float | quartz with pyrite, hosted In quartzite |
| 1206033 | 437751 | 7086640 | 1117 | 19-Jun-12 | MQ | float | quartz vein, oxidized, in quartzite/chlorite schist |
| 1206034 | 437810 | 7086601 | 1105 | 19-Jun-12 | MQ | float | quartz, foliated quartzite host rock, oxidized |
| 1206035 | 438522 | 7086548 | 953 | 19-Jun-12 | MQ | subcrop | phyllite with quartz veins, approx 2cm, biotite foliations, oxidized |
| 1206036 | 438651 | 7086243 | 910 | 19-Jun-12 | MQ | outcrop | quartz vein 8cm in biotite schist, slightly oxidized |
| 1206037 | 438689 | 7085912 | 864 | 19-Jun-12 | MQ | float | quartz vein in quartzite, oxidized |
| 1206038 | 438621 | 7085563 | 795 | 19-Jun-12 | MQ | outcrop | quartz vein with sulfides, oxidized, quartzite host |
| 1206039 | 438649 | 7085553 | 801 | 19-Jun-12 | MQ | outcrop | quartz, oxidized, 50cm, in quartzite with 2cm quartz porphyroblasts |
| 1206040 | 438586 | 7085479 | 780 | 19-Jun-12 | MQ | outcrop | quartz boulder 20cm wide, chalcopyrite, host rock non foliated quartzite |
| 1206041 | 438545 | 7085444 | 787 | 19-Jun-12 | MQ | outcrop | phyllite with quartz vein approx 20cm wide, oxidized, siderite |
| 1206042 | 439413 | 7087060 | 1087 | 20-Jun-12 | MQ | float | quartz with foliated quartzite, sulfides, disseminated, oxidized |
| 1206043 | 439250 | 7086138 | 954 | 20-Jun-12 | MQ | float | quartz, quartzite, oxidized, with blue quartzite/chlorite |
| 1206044 | 439262 | 7085866 | 885 | 20-Jun-12 | MQ | float | quartz, oxidized, with disseminated sulfides |
| 1206045 | 439329 | 7085658 | 836 | 20-Jun-12 | MQ | float | oxidized quartz |
| 1206046 | 438719 | 7085292 | 781 | 20-Jun-12 | MQ | outcrop | quartz, oxidized, host rock highly foliated quartzite |
| 1206047 | 438706 | 7085319 | 788 | 20-Jun-12 | MQ | outcrop | quartz vein, approx 10cm in foliated, folded quartzite, yellow carbonates, blue flaky mineral (possibly covellite) |
| 1206048 | 438697 | 7085333 | 780 | 20-Jun-12 | MQ | outcrop | quartz vein in quartzite host rock, calcite, siderite, oxidized |
| 1206049 | 438737 | 7085194 | 758 | 20-Jun-12 | MQ | outcrop | quartz vein in phyllite host, galena deposit |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1206050 | 438710 | 7085158 | 755 | 20-Jun-12 | MQ | outcrop | quartz vein approx 8 cm wide, phyllite host, lots of carbonates, oxidized |
| 1206051 | 438714 | 7085134 | 756 | 20-Jun-12 | MQ | outcrop | quartz vein in phyllite host, red mins, possibly rhodocrosite or realgar, concreted |
| 1206052 | 435186 | 7090062 | 1098 | 21-Jun-12 | MQ | float | quartz pebbles and quartzite, foliated and oxidized, ground frozen at 20cm, couldn't hit bedrock |
| 1206053 | 435173 | 7090090 | 1102 | 21-Jun-12 | MQ | float | quartz, oxidized, and quartzite, also oxidized and foliated, approx 50cm pit |
| 1206054 | 435088 | 7090017 | 1107 | 21-Jun-12 | MQ | float | quartz boulder, oxidized, rich in carbonates(siderite) and iron staining |
| 1206055 | 435001 | 7089918 | 1104 | 21-Jun-12 | MQ | float | quartzite, oxidized, very deep red staining, carbonates |
| 1206056 | 434872 | 7089687 | 1064 | 21-Jun-12 | MQ | subcrop | quartz boulder, oxidized, with iron staining, outcrop is foliated quartzite |
| 1206057 | 434734 | 7088963 | 992 | 21-Jun-12 | MQ | float | quartz, oxidized |
| 1206058 | 434605 | 7088628 | 908 | 21-Jun-12 | MQ | outcrop | quartzite with 2cm quartz veins, quartzite non-foliated, strike 160 degrees, dipping 12 degrees sw |
| 1206059 | 434449 | 7088171 | 916 | 21-Jun-12 | MQ | outcrop | quartz with iron staining and rusted color, possible sulfides |
| 1206060 | 434581 | 7088149 | 949 | 21-Jun-12 | MQ | float | quartz/quartzite, oxidized, iron staining |
| 1206601 | 450657 | 7094208 | 777 | 15-Jun-12 | MQ | | Metamorphic quartz with mineralization. Possible Pyrite mineralization. |
| 1206602 | 450277 | 7093390 | 958 | 16-Jun-12 | MQ | float | metamorphic rock, quartzite |
| 1206603 | 451738 | 7093092 | 704 | 16-Jun-12 | MQ | float/tallus | metamorphic rock, quartzite with mineralization (pryite <1%) |
| 1206604 | 452637 | 7098512 | 1051 | 17-Jun-12 | MQ | talus | Volcanic rock, large amounts of oxidization |
| 1206605 | 452614 | 7098504 | 1046 | 17-Jun-12 | MQ | talus | volcanic rock, with mineralization (pyrite) |
| 1206606 | 448837 | 7091659 | 772 | 18-Jun-12 | MQ | subcrop | countryrock beside stiblite showing is lighter, darker, more mafic/volcanic?. This area is pronouced by a hill where the stiblite showing outcrop is. It is pretty distinguishable from the rest of terrain and is not illustrated on the map. |
| 1206607 | 448872 | 7091678 | 773 | 18-Jun-12 | MQ | float | Trenched hole with pick axe. Contained two predominant types, (1)quartz w/cavities that is heavy oxidized and heavy, (2) silicate, heavy, dark and lusterous/virterous, semi-fine grade and had soil taken here, too |
| 1206608 | 448327 | 7091476 | 811 | 18-Jun-12 | MQ | outcrop | Highly oxidized, weathered surface shows molyibum? Silicate in composition? |
| 1206609 | 448271 | 7091470 | 824 | 18-Jun-12 | MQ | outcrop | Felsic/silicate rock, lighter color and slightly heavy with oxidation |
| 1206610 | 448118 | 7091434 | 852 | 18-Jun-12 | MQ | tallus | felic/silicate rock, viterous and average weight but is heavy oxidized. Has some dendrite but minor. |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1206611 | 448273 | 7091141 | 821 | 18-Jun-12 | MQ | float | Felsic/silicate rock, quartz with oxidization. |
| 1206612 | 448275 | 7091127 | 826 | 18-Jun-12 | MQ | float/tallus | terrain subject to mudslide which produced a variety of rock specimens from erosion. Rock is felsic/silicate, with mineralization of pyrite?. Also with another unknown mineralization that is highly virterous and semi-transparent?. |
| 1206613 | 437623 | 7087083 | 1128 | 19-Jun-12 | MQ | float | Trenched hole. Silicate rich rock with schist fabric. Highly virteous , weathered red rock is heavy, with darker rock average. Trench was up to shoulders. |
| 1206614 | 437660 | 7087108 | 1119 | 19-Jun-12 | MQ | Float/Subcrop | Trenched Hole. Rock had quartz viening, was predominantly silicate with mineralization of pyrite?. Red weathered rock is heavy, The rock size got greater with depth, suspected bedrock close. The mineralization was thru-out quartz and country red rock(silicate red). Rock were highly schist. Also, just before rock samples, there were flanks of shinny dark silver before bedrock which could be used as indication of proxy to bedrock? |
| 1206615 | 437595 | 7087051 | 1134 | 19-Jun-12 | MQ | Float/outcrop | Trenched hole. Believed to hit bedrock. Same country rock has last hole(red silicate schist rock). This rock is heavy, and oxidation is heavy to. Hole about 1m deep. This rock is ver schist like. Also, just before rock samples, there were flanks of shinny dark silver before bedrock which could be used as indication of proxy to bedrock? |
| 1206616 | 440862 | 7087987 | 1033 | 20-Jun-12 | MQ | tallus | metamorphic rock with equal green and quartz/calcite. Heavily dissemenated oxidization. |
| 1206617 | 440943 | 7088011 | 1025 | 20-Jun-12 | MQ | float | quartz with choloritic schist. Moderate heavy and is oxidized with cavities. |
| 1206618 | 441343 | 7088149 | 949 | 20-Jun-12 | MQ | tallus | metamorphic schist, average weight with oxidization, fine grade and virteous |
| 1206619 | 441817 | 7089277 | 756 | 20-Jun-12 | MQ | float/tallus | Trench. Quartz boulder with visible sulfides, galena and chalcopyrite. Heavy, quartz foggy and heavily oxidized. |
| 1206620 | 441817 | 7089277 | 757 | 20-Jun-12 | MQ | float/tallus | volcanic/metamorphic with obsidan present?. Moderate heavy and is dark green/red and not very virteous. |
| 1206621 | 436885 | 7085470 | 922 | 21-Jun-12 | MQ | float | Trenc, Rocks predominant silicate rich with oxidization present. Average weight and varied from fine to coarse grade. |
| 1206622 | 436884 | 7085168 | 859 | 21-Jun-12 | MQ | float | Overburden was thick. Rock at this trench were silicate rich and had schist texture. Were dark green, semi-virteous and had average weight. |
| 1206623 | 436872 | 7084972 | 818 | 21-Jun-12 | MQ | Float | Trench. Rock was low grade metamorphic quartz(minimal schist) and contained sulfides (galena/chalcopyrite) in very minor amounts. Was heavy and dark in colour. |
| 1206624 | 436872 | 7084972 | 817 | 21-Jun-12 | MQ | Float | Trench. Random rocks that did not have mineralization at same hole as previous sample. Rocks were coarse, more schist texture. Heavy in weight. |
| 1206625 | 436860 | 7084364 | 703 | 21-Jun-12 | MQ | Float | Trench. Permafrost was present at depth. Rocks were silica rich, contained oxidization. |
| 1206626 | 436846 | 7084221 | 685 | 21-Jun-12 | MQ | Float | Trench. Silica rich rocks with intermidate composition. Mineralization present (galena). Rocks were heavy and rustic. From this hole, rocks were predominant quartz(>50%). |
| 1206627 | 436844 | 7084217 | 685 | 21-Jun-12 | MQ | Float | Trench. Quartz rock sample because it also was heavy and very rustic. |
| 1234931 | 442207 | 7089974 | 811 | 29-Jun-12 | MQ | outcrop | galena in quartz vein. Quartzite out. Vein is 18" thick. 080/50/NNW |
| 1237401 | 448977 | 7091444 | 748 | 27-Jun-12 | MQ | float | quartz vein float with carb alteration, graphitic schist, rusty vugs, trace green mineral possib scorodite |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1237402 | 448642 | 7091335 | 763 | 27-Jun-12 | MQ | float | dug pit to 40cm at soil anom. Hit hard pack clay, permafrost. Angular chips and till. Sample is granite boulder with rusty 0.5cm spots often with fine pyrite. Very silvery |
| 1237403 | 448643 | 7091336 | 762 | 27-Jun-12 | MQ | till? | same hole as 7402. recrystallized cherty quartz, looks somewhat foliated, rusty vugs |
| 1237404 | 448301 | 7091170 | 814 | 27-Jun-12 | MQ | float | till or float. Quartz with graphite and chlortie with bluish-silvery metallics. Looks like moly but not too likely. Possibly minor galena as well |
| 1237405 | 448168 | 7091130 | 846 | 27-Jun-12 | MQ | till, float | dug pit at soil anom. Rocks mostly till. Looks like volcanic, dk-grey black, fairly silicious, some calcite. Rounded weathered edge. |
| 1237406 | 448121 | 7091124 | 839 | 27-Jun-12 | MQ | talus | large 1x1x1 meter pit at big soil anom. Numerous rock types in pit. This sample is fariyl angular talus. Dk grey-green, layered cherty mica schist? With euhedral py 2mm grains |
| 1237407 | 448123 | 7091123 | 839 | 27-Jun-12 | MQ | talus | same hole, this rock is much greener, slightly rounded. Looks like a well foliated metavolcanic? Slight crenulations |
| 1237408 | 448100 | 7091059 | 848 | 27-Jun-12 | MQ | till? | dug pit. rounded QV material with rusty, dark seams |
| 1237409 | 448568 | 7090890 | 842 | 27-Jun-12 | MQ | till? | dug pit, QV material somewhat rounded. Elongated vugs. |
| 1237410 | 450041 | 7091720 | | | MQ | talus | angular quartz boulder |
| 1237411 | 449445 | 7091351 | | | MQ | ? | foliated quartzite plus some quartz |
| 1237412 | 442317 | 7088865 | 730 | 29-Jun-12 | MQ | outcrop | QV material within quartzite host. Rusty trace sulphides. 3m ridge oc |
| 1237413 | 442414 | 7088903 | 768 | 29-Jun-12 | MQ | outcrop | 6m ridge OC. Quartzite. Small crenulation folding. 245/30/N. sample is 1inch QV with small rusty remnant sulphides |
| 1237414 | 442413 | 7089025 | 766 | 29-Jun-12 | MQ | outcrop | ridge outcrop. 10cm QV wuithin quartzite and schist. No visiible min. |
| 1237415 | 442412 | 7089025 | 766 | 29-Jun-12 | MQ | outcrop | right beside 7414. 1 foot QV, smells of sulfur when broken. Margin is very chlorite altered, |
| 1237416 | 443978 | 7087673 | 664 | 29-Jun-12 | MQ | outcrop | on trail. Cleared area 30m. Lots of outcrop. Qtz veins up to 10 cm. no min. sample is mix of QV and mica schist material |
| 1237424 | 451125 | 7093280 | 816 | 1-Jul-12 | MQ | talus chips | semi angular schist chips from dug pit at soil anom |
| 1237425 | 451641 | 7093324 | 720 | 1-Jul-12 | MQ | talus semi rounded | quartzite from pit |
| 1237426 | 451641 | 7093324 | 720 | 1-Jul-12 | MQ | till? | semi rounded quartzite with QV |
| 1237427 | 448481 | 7088818 | | | MQ | chips | chips from hole |
| 1237428 | 448301 | 7091080 | 820 | 18-Jun-12 | MQ | gravel | red gravel compact from slide |
| 1237566 | 448353 | 7091517 | 826 | 27-Jun-12 | MQ | float | quartzite with blue quartz eyes with rust stains |

| Sample ID | Easting | Northing | Elevation (m) | Date Taken | Property | Rock Source | Description |
|---|---|---|---|---|---|---|---|
| 1237567 | 447999 | 7091726 | 951 | 27-Jun-12 | MQ | float | recrystalized schist with quartz and manganese stains with small sulphides pyrite |
| 1237568 | 447920 | 7091760 | 983 | 27-Jun-12 | MQ | float | mica schist with rust crust with sulphides |
| 1237569 | 447811 | 7091910 | 1016 | 27-Jun-12 | MQ | float | quartzite with rust stains and sulphides |
| 1237570 | 447635 | 7092451 | 1132 | 27-Jun-12 | MQ | float | thick rust stains with bournite/peacock ore staining on recrystalized schist |
| 1237571 | 447758 | 7092535 | 1126 | 27-Jun-12 | MQ | outcrop | bournite/peacock ore staining on recrystalized schist |
| 1237572 | 448608 | 7091788 | 797 | 27-Jun-12 | MQ | outcrop | quartzite with green coloration with sulphides |
| 1237573 | 448758 | 7091471 | 748 | 27-Jun-12 | MQ | float | quartz with small silver sulphides either pyrite or galena |
| 1237574 | 451732 | 7098932 | 845 | 28-Jun-12 | MQ | float | granite with sulphides |
| 1237575 | 451476 | 7098696 | 875 | 28-Jun-12 | MQ | float | granite with sulphides |
| 1237576 | 451546 | 7098334 | 794 | 28-Jun-12 | MQ | float | rusty metalic rock with silver colored sulphides |
| 1237577 | 451680 | 7098123 | 836 | 28-Jun-12 | MQ | outcrop | quartzite with schist |
| 1237590 | 442379 | 7089133 | 822 | 29-Jun-12 | MQ | outcrop | 1x1m OC. Layered schist with fine sulphides. 060/110/E |
| 1237591 | 442554 | 7089256 | 823 | 29-Jun-12 | MQ | float | 1x1m boulder of quartzite with qtz veins and minor sulphides |
| 1237592 | 443077 | 7089590 | 952 | 29-Jun-12 | MQ | float | from 40cm hand dug pit. Reddish coloured quartzite with fine sulphides |
| 1237593 | 443130 | 7089811 | 1004 | 29-Jun-12 | MQ | outcrop | 1x0.6m OC 060/34/W. Quartzite with veins of qtz-calcite and rust staining |
| 1237594 | 443319 | 7089935 | 1052 | 29-Jun-12 | MQ | float | 1x0.3m dug trench. Recrystallized schist with rust stains |
| 1237595 | 442729 | 7089458 | 887 | 29-Jun-12 | MQ | outcrop | 1x1m OC. Layered schist with 30cm quartzite seam with sulphides |
| 1237596 | 442502 | 7089309 | 859 | 29-Jun-12 | MQ | outcrop | 30x50m outcrop ridge. Layered schist with 30-60cm quartz veins with cavities and rust stains. Minor fine galena minerazliation in quartz. |
| 1239898 | 444239 | 7092125 | 920 | 21-Jun-12 | MQ | talus | quartzite, non foliated, muscovite, oxidized |
| 1239899 | 444257 | 7091740 | 1029 | 21-Jun-12 | MQ | talus | blue quartzite, foliated, oxidized |
| 1239900 | 444353 | 7091146 | 1147 | 21-Jun-12 | MQ | talus | quartzite, foliated, oxidized |

Appendix IV: Soil Sample Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 21, 2012
Report Date: June 29, 2012
Page: 1 of 12

# CERTIFICATE OF ANALYSIS WHI12000148.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQSoils1
P.O. Number
Number of Samples: 320

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 320 | Dry at 60C | | | WHI |
| SS80 | 320 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| RJSV | 320 | Saving all or part of Soil Reject | | | WHI |
| 1DX2 | 320 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238001 | Soil | 1.5 | 21.0 | 15.5 | 52 | 0.1 | 20.3 | 6.6 | 162 | 2.56 | 14.5 | 4.0 | 2.3 | 13 | 0.2 | 3.5 | 0.3 | 51 | 0.09 | 0.033 | 15 |
| 1238002 | Soil | 1.1 | 24.7 | 16.4 | 58 | <0.1 | 23.3 | 8.2 | 208 | 2.54 | 10.6 | 2.0 | 6.1 | 10 | 0.1 | 3.1 | 0.2 | 41 | 0.07 | 0.021 | 19 |
| 1238003 | Soil | 1.0 | 23.1 | 15.5 | 53 | <0.1 | 20.7 | 6.8 | 197 | 2.36 | 8.5 | 4.7 | 6.1 | 10 | 0.1 | 1.4 | 0.2 | 39 | 0.08 | 0.026 | 22 |
| 1238004 | Soil | 1.0 | 21.3 | 20.7 | 54 | <0.1 | 18.4 | 6.6 | 202 | 2.17 | 9.9 | 34.6 | 5.7 | 10 | 0.1 | 2.8 | 0.2 | 32 | 0.10 | 0.033 | 20 |
| 1238005 | Soil | 0.9 | 27.5 | 26.5 | 57 | 0.2 | 21.7 | 7.9 | 221 | 2.35 | 13.2 | 2.9 | 7.2 | 9 | 0.1 | 4.8 | 0.3 | 36 | 0.07 | 0.025 | 23 |
| 1238006 | Soil | 1.0 | 20.2 | 46.7 | 52 | 0.4 | 17.9 | 5.8 | 159 | 2.16 | 16.4 | 9.5 | 3.9 | 9 | 0.3 | 4.9 | 0.3 | 35 | 0.06 | 0.029 | 23 |
| 1238007 | Soil | 1.2 | 31.7 | 40.5 | 74 | 0.2 | 26.2 | 9.5 | 365 | 2.66 | 17.3 | 5.1 | 6.9 | 14 | 0.2 | 6.8 | 0.3 | 33 | 0.10 | 0.040 | 27 |
| 1238008 | Soil | 0.9 | 26.8 | 28.3 | 61 | 0.1 | 23.9 | 10.6 | 367 | 2.45 | 10.8 | 2.4 | 6.2 | 9 | 0.3 | 4.4 | 0.2 | 29 | 0.06 | 0.024 | 28 |
| 1238009 | Soil | 1.4 | 13.0 | 16.4 | 54 | <0.1 | 15.5 | 7.6 | 227 | 2.70 | 12.6 | 2.8 | 4.6 | 9 | 0.2 | 1.4 | 0.2 | 54 | 0.07 | 0.025 | 16 |
| 1238010 | Soil | 1.3 | 17.3 | 21.2 | 53 | 0.4 | 18.7 | 7.5 | 185 | 2.80 | 15.7 | 2.9 | 5.2 | 8 | 0.2 | 2.4 | 0.2 | 48 | 0.07 | 0.032 | 14 |
| 1238011 | Soil | 1.2 | 22.7 | 17.3 | 56 | <0.1 | 20.4 | 7.5 | 194 | 2.54 | 11.1 | 3.7 | 6.2 | 10 | 0.1 | 2.9 | 0.2 | 40 | 0.07 | 0.025 | 18 |
| 1238012 | Soil | 1.2 | 18.6 | 19.6 | 55 | 0.7 | 19.1 | 7.5 | 244 | 2.44 | 10.9 | 4.5 | 4.8 | 12 | 0.2 | 3.0 | 0.2 | 41 | 0.09 | 0.028 | 18 |
| 1238013 | Soil | 0.7 | 38.2 | 48.7 | 91 | 0.2 | 29.6 | 11.5 | 351 | 3.05 | 32.6 | 3.4 | 14.1 | 21 | 0.5 | 11.1 | 0.6 | 23 | 0.19 | 0.047 | 37 |
| 1238014 | Soil | 0.8 | 37.9 | 51.0 | 92 | 0.3 | 31.7 | 12.5 | 378 | 3.10 | 42.3 | 2.7 | 13.6 | 20 | 0.5 | 11.6 | 0.6 | 22 | 0.16 | 0.047 | 36 |
| 1238015 | Soil | 0.8 | 29.8 | 40.8 | 74 | 0.2 | 22.7 | 10.2 | 345 | 2.67 | 21.2 | 2.1 | 10.5 | 11 | 0.5 | 12.4 | 0.3 | 24 | 0.07 | 0.032 | 34 |
| 1238016 | Soil | 0.8 | 34.2 | 53.5 | 95 | 0.2 | 27.1 | 12.7 | 450 | 2.96 | 28.0 | 5.5 | 9.7 | 17 | 0.8 | 15.9 | 0.4 | 22 | 0.16 | 0.047 | 35 |
| 1238017 | Soil | 0.8 | 28.5 | 36.4 | 78 | 0.2 | 24.1 | 10.8 | 321 | 2.94 | 27.0 | 6.3 | 10.5 | 14 | 0.3 | 9.1 | 0.5 | 22 | 0.11 | 0.037 | 34 |
| 1238018 | Soil | 1.1 | 23.5 | 32.9 | 66 | 0.2 | 19.1 | 8.1 | 256 | 2.59 | 19.9 | 2.0 | 7.4 | 11 | 0.3 | 6.9 | 0.4 | 31 | 0.07 | 0.052 | 27 |
| 1238019 | Soil | 0.8 | 28.9 | 37.9 | 79 | 0.2 | 25.2 | 10.5 | 292 | 2.86 | 39.1 | 3.5 | 11.7 | 14 | 0.3 | 8.8 | 0.7 | 25 | 0.10 | 0.028 | 35 |
| 1238020 | Soil | 1.1 | 20.7 | 30.3 | 66 | 0.2 | 19.9 | 8.2 | 374 | 2.46 | 41.3 | 0.9 | 2.7 | 18 | 0.3 | 5.4 | 0.5 | 28 | 0.21 | 0.033 | 20 |
| 1238021 | Soil | 0.9 | 31.3 | 38.7 | 78 | 0.3 | 24.0 | 9.3 | 331 | 2.84 | 39.5 | 5.4 | 7.7 | 21 | 0.2 | 8.7 | 0.6 | 27 | 0.19 | 0.056 | 37 |
| 1238022 | Soil | 0.9 | 23.0 | 14.6 | 41 | <0.1 | 16.4 | 6.5 | 167 | 2.36 | 9.5 | 2.8 | 8.4 | 10 | <0.1 | 3.7 | 0.2 | 34 | 0.05 | 0.017 | 26 |
| 1238023 | Soil | 1.1 | 17.1 | 12.5 | 48 | 0.1 | 18.6 | 6.8 | 195 | 2.56 | 12.0 | 3.1 | 6.5 | 8 | <0.1 | 1.6 | 0.2 | 51 | 0.07 | 0.021 | 17 |
| 1238024 | Soil | 0.9 | 16.7 | 11.0 | 46 | <0.1 | 17.5 | 5.7 | 150 | 2.52 | 14.0 | 8.8 | 4.5 | 11 | <0.1 | 3.1 | 0.2 | 46 | 0.08 | 0.021 | 14 |
| 1238025 | Soil | 1.1 | 19.3 | 11.6 | 55 | 0.2 | 19.8 | 20.9 | 1386 | 2.59 | 9.0 | 0.8 | 2.1 | 11 | 0.1 | 3.8 | 0.2 | 50 | 0.09 | 0.041 | 14 |
| 1238026 | Soil | 1.0 | 18.0 | 11.7 | 49 | <0.1 | 16.5 | 6.7 | 260 | 2.24 | 9.9 | 14.8 | 5.4 | 11 | <0.1 | 3.1 | 0.1 | 36 | 0.10 | 0.034 | 19 |
| 1238027 | Soil | 1.0 | 25.3 | 17.6 | 54 | 0.1 | 25.4 | 9.8 | 214 | 2.84 | 11.0 | 1.2 | 8.2 | 9 | <0.1 | 1.1 | 0.2 | 33 | 0.06 | 0.032 | 23 |
| 1238028 | Soil | 1.0 | 27.7 | 15.1 | 53 | <0.1 | 23.0 | 9.2 | 306 | 2.58 | 8.0 | 2.3 | 6.7 | 11 | <0.1 | 1.2 | 0.1 | 31 | 0.07 | 0.019 | 30 |
| 1238029 | Soil | 0.8 | 61.3 | 37.3 | 85 | <0.1 | 45.3 | 15.7 | 306 | 4.48 | 3.2 | 1.9 | 17.4 | 9 | <0.1 | 0.6 | 0.5 | 26 | 0.03 | 0.022 | 50 |
| 1238030 | Soil | 1.2 | 39.9 | 17.9 | 69 | <0.1 | 37.1 | 13.1 | 393 | 2.86 | 16.3 | 7.9 | 9.0 | 10 | 0.1 | 1.3 | 0.2 | 42 | 0.10 | 0.033 | 16 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238001 | Soil | 28 | 0.34 | 195 | 0.021 | <1 | 1.35 | 0.006 | 0.05 | 0.3 | 0.04 | 2.0 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238002 | Soil | 27 | 0.32 | 163 | 0.018 | 2 | 1.23 | 0.004 | 0.04 | 0.4 | 0.07 | 3.1 | 0.2 | <0.05 | 4 | 0.5 | <1 | <0.2 |
| 1238003 | Soil | 24 | 0.32 | 147 | 0.020 | <1 | 1.20 | 0.006 | 0.06 | 0.4 | 0.03 | 2.5 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238004 | Soil | 21 | 0.27 | 159 | 0.018 | <1 | 0.97 | 0.004 | 0.05 | 0.4 | 0.05 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238005 | Soil | 25 | 0.26 | 157 | 0.017 | <1 | 1.02 | 0.004 | 0.06 | 0.4 | 0.11 | 3.3 | 0.3 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238006 | Soil | 21 | 0.20 | 136 | 0.011 | <1 | 0.92 | 0.004 | 0.05 | 0.5 | 0.04 | 1.9 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238007 | Soil | 23 | 0.28 | 342 | 0.021 | <1 | 0.99 | 0.005 | 0.07 | 0.8 | 0.09 | 3.4 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238008 | Soil | 19 | 0.24 | 141 | 0.016 | <1 | 0.85 | 0.004 | 0.07 | 0.6 | 0.04 | 2.2 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238009 | Soil | 30 | 0.34 | 174 | 0.028 | <1 | 1.67 | 0.006 | 0.05 | 0.3 | 0.04 | 3.3 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238010 | Soil | 27 | 0.33 | 165 | 0.017 | <1 | 1.65 | 0.004 | 0.05 | 0.3 | 0.04 | 2.3 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238011 | Soil | 23 | 0.31 | 123 | 0.022 | <1 | 1.25 | 0.005 | 0.06 | 0.3 | 0.02 | 2.1 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238012 | Soil | 22 | 0.32 | 194 | 0.014 | <1 | 1.33 | 0.005 | 0.07 | 0.3 | 0.03 | 2.0 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238013 | Soil | 22 | 0.29 | 96 | 0.015 | <1 | 0.87 | 0.005 | 0.13 | 0.4 | 0.10 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238014 | Soil | 21 | 0.27 | 107 | 0.012 | <1 | 0.84 | 0.005 | 0.14 | 0.3 | 0.14 | 2.6 | 0.3 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238015 | Soil | 18 | 0.23 | 123 | 0.017 | <1 | 0.81 | 0.004 | 0.10 | 0.5 | 0.04 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238016 | Soil | 18 | 0.23 | 130 | 0.014 | <1 | 0.78 | 0.004 | 0.12 | 0.7 | 0.07 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238017 | Soil | 18 | 0.23 | 109 | 0.012 | <1 | 0.81 | 0.006 | 0.11 | 0.6 | 0.03 | 1.9 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238018 | Soil | 18 | 0.18 | 136 | 0.011 | <1 | 0.92 | 0.003 | 0.10 | 0.6 | 0.02 | 1.9 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238019 | Soil | 23 | 0.37 | 131 | 0.011 | <1 | 1.07 | 0.004 | 0.10 | 0.2 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238020 | Soil | 20 | 0.25 | 156 | 0.008 | <1 | 0.94 | 0.004 | 0.08 | 0.4 | 0.02 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238021 | Soil | 22 | 0.34 | 176 | 0.015 | <1 | 1.01 | 0.005 | 0.09 | 0.3 | 0.08 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238022 | Soil | 22 | 0.26 | 137 | 0.019 | <1 | 1.17 | 0.004 | 0.07 | 0.2 | 0.03 | 3.0 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238023 | Soil | 29 | 0.36 | 188 | 0.033 | <1 | 1.70 | 0.005 | 0.04 | 0.2 | 0.04 | 3.2 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238024 | Soil | 22 | 0.31 | 177 | 0.029 | <1 | 1.16 | 0.005 | 0.05 | 0.2 | 0.02 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238025 | Soil | 24 | 0.32 | 223 | 0.018 | <1 | 1.44 | 0.005 | 0.06 | 0.2 | 0.02 | 2.4 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238026 | Soil | 22 | 0.30 | 257 | 0.021 | <1 | 1.09 | 0.005 | 0.06 | 0.2 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238027 | Soil | 22 | 0.32 | 128 | 0.011 | <1 | 1.43 | 0.004 | 0.08 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238028 | Soil | 21 | 0.33 | 206 | 0.018 | <1 | 1.13 | 0.004 | 0.08 | 0.1 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238029 | Soil | 31 | 0.80 | 95 | 0.006 | <1 | 2.25 | 0.004 | 0.07 | <0.1 | 0.02 | 2.6 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238030 | Soil | 25 | 0.57 | 233 | 0.083 | <1 | 1.85 | 0.008 | 0.09 | 0.3 | 0.03 | 4.3 | 0.1 | <0.05 | 6 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238031 | Soil | 1.0 | 23.3 | 15.4 | 53 | <0.1 | 26.2 | 9.8 | 378 | 2.63 | 11.2 | 2.9 | 5.9 | 27 | <0.1 | 0.8 | 0.2 | 49 | 0.33 | 0.023 | 20 |
| 1238032 | Soil | 0.9 | 21.5 | 10.1 | 55 | <0.1 | 18.5 | 6.0 | 175 | 2.04 | 8.0 | 2.4 | 5.1 | 11 | <0.1 | 1.0 | 0.1 | 30 | 0.12 | 0.032 | 20 |
| 1238033 | Soil | 0.7 | 20.4 | 10.9 | 44 | <0.1 | 19.2 | 6.9 | 190 | 2.05 | 13.0 | 3.1 | 5.8 | 15 | <0.1 | 1.1 | 0.1 | 33 | 0.19 | 0.033 | 20 |
| 1238034 | Soil | 1.3 | 19.0 | 14.0 | 52 | 0.1 | 21.7 | 8.1 | 200 | 2.63 | 13.8 | 2.6 | 4.9 | 14 | 0.2 | 1.3 | 0.2 | 49 | 0.13 | 0.023 | 16 |
| 1238035 | Soil | 0.9 | 17.3 | 13.5 | 46 | 0.1 | 21.6 | 8.1 | 189 | 2.65 | 13.1 | 2.4 | 4.4 | 12 | 0.1 | 1.1 | 0.2 | 51 | 0.13 | 0.037 | 12 |
| 1238036 | Soil | 1.0 | 20.8 | 9.3 | 53 | <0.1 | 18.2 | 6.9 | 178 | 2.07 | 8.6 | 11.3 | 5.3 | 12 | 0.1 | 1.3 | 0.1 | 33 | 0.13 | 0.037 | 19 |
| 1238037 | Soil | 1.2 | 36.4 | 20.5 | 74 | <0.1 | 34.1 | 14.0 | 303 | 3.14 | 24.5 | 5.6 | 11.7 | 14 | <0.1 | 17.6 | 0.2 | 14 | 0.03 | 0.032 | 50 |
| 1238038 | Soil | 1.0 | 20.1 | 11.7 | 44 | <0.1 | 18.5 | 6.8 | 121 | 2.26 | 13.7 | 3.9 | 5.4 | 6 | <0.1 | 2.0 | 0.2 | 32 | 0.07 | 0.019 | 19 |
| 1238039 | Soil | 1.3 | 32.9 | 15.9 | 71 | 0.1 | 28.7 | 10.8 | 288 | 2.88 | 11.7 | 5.0 | 7.5 | 12 | <0.1 | 1.0 | 0.2 | 46 | 0.12 | 0.032 | 25 |
| 1238040 | Soil | 0.8 | 16.4 | 8.9 | 38 | <0.1 | 14.9 | 5.2 | 96 | 1.92 | 10.5 | 8.9 | 3.7 | 7 | <0.1 | 0.7 | 0.1 | 34 | 0.10 | 0.031 | 15 |
| 1238041 | Soil | 1.2 | 18.9 | 11.5 | 51 | <0.1 | 18.5 | 8.1 | 225 | 2.49 | 14.3 | 2.6 | 5.1 | 8 | <0.1 | 0.8 | 0.1 | 49 | 0.09 | 0.015 | 14 |
| 1238042 | Soil | 1.5 | 32.9 | 18.5 | 63 | 0.1 | 26.9 | 10.0 | 202 | 2.94 | 16.2 | 13.1 | 7.3 | 11 | <0.1 | 1.4 | 0.2 | 48 | 0.11 | 0.017 | 28 |
| 1238043 | Soil | 0.9 | 30.1 | 11.2 | 55 | <0.1 | 25.8 | 10.8 | 194 | 2.58 | 14.0 | 4.5 | 6.2 | 11 | 0.1 | 1.0 | 0.2 | 47 | 0.15 | 0.023 | 21 |
| 1238044 | Soil | 0.8 | 24.8 | 11.4 | 60 | <0.1 | 30.1 | 10.5 | 268 | 2.98 | 15.4 | 5.3 | 8.8 | 19 | <0.1 | 2.5 | 0.1 | 23 | 0.32 | 0.062 | 36 |
| 1238045 | Soil | 0.9 | 20.0 | 18.1 | 67 | 0.1 | 23.4 | 9.0 | 240 | 2.63 | 20.1 | 6.2 | 8.0 | 20 | <0.1 | 4.0 | 0.2 | 22 | 0.39 | 0.064 | 29 |
| 1238046 | Soil | 0.9 | 30.1 | 20.2 | 74 | 0.2 | 27.7 | 10.7 | 316 | 2.78 | 24.7 | 7.4 | 8.2 | 22 | 0.2 | 4.0 | 0.2 | 27 | 0.48 | 0.062 | 30 |
| 1238047 | Soil | 1.0 | 23.9 | 15.2 | 67 | 0.2 | 22.4 | 8.9 | 226 | 2.33 | 23.9 | 3.9 | 5.0 | 26 | 0.2 | 1.7 | 0.2 | 28 | 0.60 | 0.064 | 21 |
| 1238048 | Soil | 0.9 | 30.8 | 55.3 | 79 | 0.4 | 23.3 | 12.1 | 363 | 2.88 | 68.3 | 8.9 | 7.2 | 16 | 0.4 | 17.1 | 0.8 | 21 | 0.11 | 0.046 | 35 |
| 1238049 | Soil | 0.9 | 26.8 | 41.7 | 68 | 0.3 | 22.3 | 8.6 | 177 | 2.66 | 56.5 | 2.5 | 7.3 | 14 | 0.3 | 15.5 | 0.6 | 20 | 0.09 | 0.035 | 35 |
| 1238050 | Soil | 1.0 | 29.9 | 53.7 | 84 | 0.2 | 23.3 | 10.6 | 322 | 3.02 | 69.7 | 3.6 | 7.9 | 16 | 0.3 | 16.2 | 0.8 | 21 | 0.10 | 0.036 | 33 |
| 1238051 | Soil | 1.0 | 29.0 | 57.1 | 79 | 0.4 | 23.5 | 12.2 | 328 | 2.99 | 69.5 | 2.8 | 9.8 | 12 | 0.3 | 18.9 | 0.8 | 21 | 0.08 | 0.033 | 34 |
| 1238052 | Soil | 0.9 | 25.2 | 55.5 | 74 | 0.6 | 19.6 | 8.6 | 190 | 2.61 | 49.2 | 3.6 | 8.1 | 13 | 0.3 | 13.6 | 0.7 | 24 | 0.09 | 0.032 | 32 |
| 1238053 | Soil | 0.9 | 28.5 | 48.7 | 91 | 0.4 | 24.3 | 9.9 | 231 | 2.78 | 78.5 | 3.4 | 5.0 | 13 | 0.3 | 15.7 | 0.8 | 27 | 0.16 | 0.041 | 31 |
| 1238054 | Soil | 0.9 | 27.1 | 29.2 | 92 | 0.2 | 26.1 | 11.4 | 316 | 2.74 | 26.7 | 2.6 | 9.6 | 11 | 0.3 | 10.1 | 0.4 | 24 | 0.11 | 0.039 | 39 |
| 1238055 | Soil | 0.9 | 26.1 | 38.3 | 81 | 0.2 | 22.7 | 10.8 | 350 | 2.74 | 34.8 | 3.3 | 6.8 | 11 | 0.3 | 9.4 | 0.5 | 26 | 0.09 | 0.035 | 30 |
| 1238056 | Soil | 0.8 | 25.0 | 44.1 | 81 | 0.4 | 20.8 | 8.2 | 156 | 2.50 | 39.4 | 8.5 | 6.1 | 12 | 0.4 | 13.8 | 0.6 | 26 | 0.14 | 0.050 | 38 |
| 1238057 | Soil | 1.2 | 30.3 | 58.7 | 86 | 0.5 | 25.0 | 8.7 | 240 | 3.03 | 53.0 | 3.8 | 5.0 | 10 | 0.4 | 20.0 | 0.7 | 28 | 0.09 | 0.050 | 35 |
| 1238058 | Soil | 1.0 | 26.6 | 51.5 | 84 | 0.5 | 24.1 | 8.9 | 189 | 2.99 | 49.6 | 15.4 | 7.6 | 11 | 0.3 | 16.6 | 0.6 | 27 | 0.12 | 0.050 | 37 |
| 1238059 | Soil | 0.8 | 30.9 | 51.3 | 94 | 0.2 | 28.5 | 11.2 | 321 | 2.98 | 50.1 | 8.1 | 10.8 | 11 | 0.5 | 20.4 | 0.5 | 25 | 0.14 | 0.049 | 37 |
| 1238060 | Soil | 1.4 | 35.4 | 110.6 | 92 | 0.5 | 27.9 | 10.2 | 371 | 3.01 | 74.6 | 4.5 | 8.1 | 12 | 0.2 | 53.8 | 1.4 | 35 | 0.12 | 0.042 | 30 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238031 | Soil | 29 | 0.39 | 357 | 0.022 | <1 | 1.60 | 0.008 | 0.04 | 0.2 | 0.04 | 4.6 | 0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| 1238032 | Soil | 20 | 0.31 | 185 | 0.019 | <1 | 1.02 | 0.006 | 0.04 | 0.1 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238033 | Soil | 21 | 0.37 | 244 | 0.028 | <1 | 1.14 | 0.007 | 0.05 | 0.3 | 0.02 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238034 | Soil | 26 | 0.35 | 237 | 0.019 | <1 | 1.42 | 0.005 | 0.07 | 0.2 | 0.01 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238035 | Soil | 28 | 0.34 | 171 | 0.031 | <1 | 1.77 | 0.005 | 0.05 | 0.2 | 0.02 | 2.6 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238036 | Soil | 20 | 0.33 | 251 | 0.023 | <1 | 1.07 | 0.005 | 0.04 | 0.2 | 0.04 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238037 | Soil | 12 | 0.10 | 125 | 0.004 | 2 | 0.55 | 0.003 | 0.07 | 0.2 | 0.02 | 2.0 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238038 | Soil | 20 | 0.26 | 101 | 0.015 | 3 | 1.02 | 0.003 | 0.04 | 0.4 | <0.01 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238039 | Soil | 25 | 0.42 | 351 | 0.030 | 1 | 1.49 | 0.006 | 0.05 | 0.2 | 0.05 | 3.7 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238040 | Soil | 20 | 0.27 | 153 | 0.017 | 2 | 1.03 | 0.004 | 0.03 | 0.3 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238041 | Soil | 29 | 0.35 | 191 | 0.032 | 1 | 1.45 | 0.006 | 0.04 | 0.3 | 0.02 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238042 | Soil | 31 | 0.40 | 272 | 0.023 | 1 | 1.58 | 0.011 | 0.05 | 0.3 | 0.04 | 3.9 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238043 | Soil | 30 | 0.41 | 257 | 0.024 | 3 | 1.41 | 0.008 | 0.05 | 0.3 | 0.02 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238044 | Soil | 26 | 0.52 | 118 | 0.009 | 2 | 1.29 | 0.004 | 0.05 | 0.2 | 0.01 | 1.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238045 | Soil | 23 | 0.43 | 72 | 0.014 | 3 | 0.98 | 0.005 | 0.06 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238046 | Soil | 25 | 0.44 | 135 | 0.015 | 2 | 1.08 | 0.006 | 0.07 | 0.4 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | 0.7 | 2 | <0.2 |
| 1238047 | Soil | 22 | 0.38 | 198 | 0.016 | 3 | 1.05 | 0.006 | 0.05 | 0.5 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | 0.5 | 1 | <0.2 |
| 1238048 | Soil | 17 | 0.21 | 147 | 0.008 | 2 | 0.79 | 0.003 | 0.10 | 0.1 | 0.10 | 1.8 | 0.2 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238049 | Soil | 15 | 0.18 | 130 | 0.008 | 2 | 0.66 | 0.004 | 0.07 | 0.1 | 0.05 | 1.5 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238050 | Soil | 18 | 0.22 | 146 | 0.007 | 4 | 0.82 | 0.003 | 0.09 | 0.1 | 0.09 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238051 | Soil | 17 | 0.21 | 108 | 0.008 | 1 | 0.78 | 0.003 | 0.08 | <0.1 | 0.07 | 1.7 | 0.2 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238052 | Soil | 19 | 0.24 | 128 | 0.010 | <1 | 0.88 | 0.003 | 0.07 | 0.1 | 0.10 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238053 | Soil | 22 | 0.31 | 128 | 0.009 | 2 | 0.99 | 0.004 | 0.05 | 0.2 | 0.06 | 1.9 | 0.3 | <0.05 | 3 | 0.8 | 1 | <0.2 |
| 1238054 | Soil | 19 | 0.23 | 101 | 0.016 | <1 | 0.74 | 0.003 | 0.06 | 0.2 | 0.05 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238055 | Soil | 20 | 0.25 | 103 | 0.016 | 1 | 0.85 | 0.007 | 0.06 | 0.2 | 0.05 | 1.9 | 0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1238056 | Soil | 21 | 0.30 | 121 | 0.011 | 3 | 0.97 | 0.004 | 0.05 | 0.4 | 0.05 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238057 | Soil | 23 | 0.32 | 99 | 0.010 | 1 | 1.05 | 0.004 | 0.06 | 0.5 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238058 | Soil | 24 | 0.35 | 102 | 0.012 | 1 | 1.06 | 0.004 | 0.06 | 0.7 | 0.04 | 2.2 | <0.1 | <0.05 | 3 | 0.6 | 1 | <0.2 |
| 1238059 | Soil | 21 | 0.32 | 78 | 0.015 | <1 | 0.85 | 0.004 | 0.06 | 0.6 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238060 | Soil | 25 | 0.34 | 280 | 0.021 | 3 | 1.15 | 0.006 | 0.06 | 0.2 | 0.05 | 3.3 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238061 | Soil | 1.1 | 31.0 | 66.7 | 77 | 0.4 | 20.0 | 8.5 | 177 | 2.90 | 45.7 | 3.8 | 8.9 | 8 | 0.2 | 32.1 | 0.8 | 36 | 0.05 | 0.025 | 30 |
| 1238062 | Soil | 1.0 | 28.0 | 94.3 | 84 | 0.3 | 17.5 | 6.5 | 163 | 2.82 | 59.0 | 6.1 | 7.7 | 7 | 0.3 | 48.8 | 0.5 | 26 | 0.07 | 0.035 | 31 |
| 1238063 | Soil | 1.2 | 54.4 | 88.9 | 112 | 0.3 | 23.5 | 8.8 | 193 | 3.21 | 71.1 | 13.2 | 5.1 | 7 | 0.3 | 44.2 | 0.9 | 24 | 0.04 | 0.039 | 35 |
| 1238064 | Soil | 0.9 | 31.5 | 157.6 | 70 | 1.1 | 18.0 | 6.6 | 143 | 2.45 | 115.2 | 2.6 | 6.4 | 13 | 0.3 | 58.7 | 3.8 | 29 | 0.13 | 0.048 | 29 |
| 1238065 | Soil | 1.3 | 27.3 | 30.6 | 82 | 0.3 | 24.9 | 9.3 | 286 | 2.48 | 20.7 | 3.0 | 4.2 | 17 | 0.5 | 7.9 | 0.5 | 42 | 0.26 | 0.068 | 20 |
| 1238066 | Soil | 0.9 | 30.4 | 62.3 | 101 | 0.3 | 25.2 | 10.5 | 295 | 2.85 | 33.1 | 6.5 | 7.1 | 8 | 0.4 | 17.0 | 0.5 | 25 | 0.09 | 0.035 | 33 |
| 1238067 | Soil | 1.3 | 41.2 | 43.3 | 102 | 0.2 | 28.9 | 12.0 | 287 | 3.69 | 22.5 | 2.3 | 15.2 | 9 | 0.4 | 11.4 | 0.4 | 13 | 0.06 | 0.035 | 43 |
| 1238068 | Soil | 1.2 | 31.3 | 70.1 | 80 | 0.7 | 24.8 | 7.8 | 103 | 2.72 | 32.2 | 2.0 | 2.5 | 10 | 0.8 | 7.2 | 0.3 | 19 | 0.05 | 0.043 | 33 |
| 1238069 | Soil | 1.1 | 16.7 | 21.8 | 54 | 0.1 | 16.2 | 6.0 | 116 | 2.43 | 12.0 | 4.2 | 6.6 | 8 | <0.1 | 2.0 | 0.2 | 33 | 0.05 | 0.022 | 25 |
| 1238070 | Soil | 1.3 | 19.7 | 34.9 | 91 | 0.2 | 23.6 | 9.5 | 153 | 3.32 | 28.2 | 2.0 | 9.9 | 9 | 0.2 | 3.5 | 0.4 | 30 | 0.04 | 0.030 | 35 |
| 1238201 | Soil | 1.2 | 15.7 | 13.6 | 47 | 0.2 | 14.8 | 10.4 | 573 | 2.44 | 8.4 | 1.5 | 2.9 | 9 | <0.1 | 1.7 | 0.2 | 47 | 0.11 | 0.041 | 20 |
| 1238202 | Soil | 0.9 | 27.8 | 13.8 | 54 | <0.1 | 22.6 | 9.1 | 290 | 2.64 | 7.0 | 2.2 | 7.1 | 7 | <0.1 | 2.3 | 0.1 | 32 | 0.06 | 0.023 | 26 |
| 1238203 | Soil | 1.4 | 25.9 | 12.8 | 55 | <0.1 | 22.1 | 8.5 | 240 | 2.79 | 9.1 | 3.3 | 6.5 | 7 | <0.1 | 1.8 | 0.2 | 41 | 0.06 | 0.020 | 19 |
| 1238204 | Soil | 1.1 | 23.1 | 10.5 | 52 | <0.1 | 20.1 | 7.7 | 184 | 2.44 | 8.0 | 1.5 | 5.1 | 8 | <0.1 | 1.1 | 0.1 | 41 | 0.07 | 0.015 | 16 |
| 1238205 | Soil | 1.0 | 18.5 | 11.9 | 50 | <0.1 | 16.5 | 7.8 | 239 | 2.65 | 11.9 | 5.3 | 5.1 | 9 | <0.1 | 1.0 | 0.2 | 48 | 0.08 | 0.015 | 14 |
| 1238206 | Soil | 0.9 | 17.4 | 9.2 | 42 | <0.1 | 15.9 | 6.3 | 151 | 2.09 | 9.8 | 6.9 | 4.4 | 8 | <0.1 | 0.7 | 0.1 | 39 | 0.08 | 0.013 | 15 |
| 1238207 | Soil | 1.0 | 26.4 | 12.5 | 52 | 0.1 | 21.5 | 9.2 | 280 | 2.59 | 7.9 | 2.3 | 6.6 | 7 | <0.1 | 1.4 | 0.2 | 35 | 0.05 | 0.022 | 21 |
| 1238208 | Soil | 0.9 | 27.0 | 15.5 | 56 | 0.1 | 22.9 | 9.6 | 268 | 2.66 | 12.8 | 2.5 | 4.0 | 6 | <0.1 | 3.0 | 0.2 | 29 | 0.04 | 0.036 | 23 |
| 1238209 | Soil | 1.1 | 20.5 | 12.5 | 59 | 0.2 | 22.5 | 12.6 | 759 | 2.70 | 10.1 | 4.9 | 3.9 | 12 | <0.1 | 2.2 | 0.2 | 34 | 0.17 | 0.063 | 20 |
| 1238210 | Soil | 0.3 | 29.9 | 17.4 | 32 | 0.3 | 24.9 | 7.8 | 277 | 2.02 | 7.3 | 0.8 | 2.8 | 188 | 0.1 | 2.6 | 0.2 | 20 | 2.19 | 0.062 | 26 |
| 1238211 | Soil | 1.0 | 32.8 | 14.2 | 60 | 0.3 | 26.9 | 11.3 | 427 | 2.87 | 8.7 | 2.1 | 6.2 | 23 | <0.1 | 1.7 | 0.2 | 33 | 0.35 | 0.043 | 28 |
| 1238212 | Soil | 0.8 | 26.1 | 16.6 | 47 | <0.1 | 21.9 | 7.4 | 168 | 2.44 | 12.4 | 4.5 | 9.5 | 14 | <0.1 | 3.3 | 0.2 | 26 | 0.16 | 0.036 | 38 |
| 1238213 | Soil | 1.1 | 29.6 | 18.4 | 54 | 0.2 | 24.1 | 8.4 | 184 | 3.15 | 26.5 | 6.6 | 5.0 | 11 | <0.1 | 4.9 | 0.2 | 34 | 0.08 | 0.037 | 30 |
| 1238214 | Soil | 0.9 | 15.9 | 12.1 | 42 | <0.1 | 16.4 | 6.3 | 129 | 2.30 | 17.2 | 8.8 | 5.0 | 6 | <0.1 | 5.4 | 0.1 | 31 | 0.05 | 0.018 | 23 |
| 1238215 | Soil | 1.0 | 36.8 | 15.6 | 74 | <0.1 | 37.0 | 13.5 | 398 | 3.61 | 32.3 | 4.3 | 12.2 | 7 | <0.1 | 8.7 | 0.2 | 25 | 0.06 | 0.027 | 38 |
| 1238216 | Soil | 0.9 | 33.0 | 17.2 | 59 | 0.1 | 30.6 | 10.4 | 277 | 2.86 | 32.2 | 4.1 | 8.7 | 12 | <0.1 | 13.2 | 0.2 | 27 | 0.12 | 0.034 | 37 |
| 1238217 | Soil | 1.0 | 26.1 | 12.9 | 57 | <0.1 | 24.4 | 9.3 | 301 | 2.57 | 24.3 | 4.5 | 7.6 | 9 | <0.1 | 3.3 | 0.2 | 31 | 0.11 | 0.030 | 26 |
| 1238218 | Soil | 0.8 | 28.4 | 15.6 | 61 | <0.1 | 27.7 | 10.3 | 298 | 2.62 | 28.6 | 7.1 | 8.9 | 11 | <0.1 | 3.6 | 0.2 | 23 | 0.15 | 0.045 | 34 |
| 1238219 | Soil | 0.8 | 24.2 | 15.6 | 59 | <0.1 | 24.8 | 10.7 | 378 | 2.56 | 34.3 | 5.4 | 8.1 | 11 | <0.1 | 3.5 | 0.2 | 23 | 0.16 | 0.051 | 27 |
| 1238220 | Soil | 0.9 | 35.7 | 27.1 | 82 | 0.1 | 33.5 | 16.0 | 513 | 3.67 | 55.2 | 12.8 | 13.5 | 20 | <0.1 | 5.5 | 0.3 | 34 | 0.35 | 0.062 | 37 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238061 | Soil | 24 | 0.34 | 171 | 0.019 | 1 | 1.30 | 0.007 | 0.06 | 0.2 | 0.06 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238062 | Soil | 21 | 0.31 | 79 | 0.013 | 2 | 0.99 | 0.003 | 0.03 | <0.1 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238063 | Soil | 20 | 0.24 | 95 | 0.006 | <1 | 0.89 | 0.003 | 0.04 | 0.1 | 0.04 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238064 | Soil | 21 | 0.30 | 145 | 0.015 | <1 | 1.02 | 0.004 | 0.04 | 0.1 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | 0.6 | 3 | <0.2 |
| 1238065 | Soil | 26 | 0.34 | 226 | 0.031 | 2 | 1.14 | 0.008 | 0.07 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238066 | Soil | 19 | 0.28 | 123 | 0.012 | <1 | 0.88 | 0.004 | 0.04 | 0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238067 | Soil | 16 | 0.35 | 42 | 0.002 | 2 | 0.85 | 0.002 | 0.05 | <0.1 | 0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238068 | Soil | 14 | 0.08 | 87 | 0.002 | 1 | 0.76 | 0.004 | 0.05 | <0.1 | 0.05 | 1.1 | 0.1 | <0.05 | 3 | <0.5 | 5 | <0.2 |
| 1238069 | Soil | 19 | 0.25 | 69 | 0.011 | <1 | 1.16 | 0.005 | 0.04 | 0.1 | 0.02 | 1.6 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238070 | Soil | 20 | 0.27 | 71 | 0.010 | <1 | 1.33 | 0.005 | 0.04 | 0.1 | 0.01 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238201 | Soil | 24 | 0.26 | 197 | 0.015 | <1 | 1.38 | 0.004 | 0.06 | 0.2 | 0.03 | 2.6 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238202 | Soil | 21 | 0.30 | 149 | 0.018 | 1 | 1.15 | 0.003 | 0.09 | 0.1 | 0.04 | 2.8 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238203 | Soil | 24 | 0.31 | 149 | 0.022 | 2 | 1.28 | 0.005 | 0.08 | 0.2 | 0.03 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238204 | Soil | 23 | 0.33 | 161 | 0.024 | 2 | 1.26 | 0.005 | 0.05 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238205 | Soil | 28 | 0.32 | 184 | 0.031 | 2 | 1.52 | 0.010 | 0.06 | 0.3 | 0.05 | 3.7 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238206 | Soil | 23 | 0.29 | 168 | 0.024 | 2 | 1.06 | 0.005 | 0.04 | 0.2 | 0.04 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238207 | Soil | 23 | 0.26 | 144 | 0.012 | 1 | 1.10 | 0.007 | 0.06 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238208 | Soil | 18 | 0.20 | 134 | 0.009 | 1 | 0.91 | 0.003 | 0.06 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238209 | Soil | 20 | 0.24 | 196 | 0.008 | 1 | 1.04 | 0.005 | 0.08 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238210 | Soil | 14 | 0.25 | 222 | 0.003 | <1 | 0.97 | 0.006 | 0.10 | <0.1 | 0.08 | 2.3 | 0.1 | 0.06 | 2 | 0.8 | <1 | <0.2 |
| 1238211 | Soil | 21 | 0.28 | 275 | 0.028 | <1 | 1.06 | 0.006 | 0.07 | 0.2 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238212 | Soil | 19 | 0.21 | 240 | 0.007 | <1 | 0.90 | 0.004 | 0.07 | 0.2 | 0.04 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238213 | Soil | 22 | 0.18 | 157 | 0.007 | <1 | 0.98 | 0.004 | 0.05 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238214 | Soil | 18 | 0.21 | 87 | 0.010 | <1 | 0.93 | 0.004 | 0.04 | 0.2 | 0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238215 | Soil | 22 | 0.38 | 124 | 0.008 | 2 | 1.22 | 0.005 | 0.07 | 0.2 | 0.03 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238216 | Soil | 22 | 0.29 | 185 | 0.007 | <1 | 1.14 | 0.006 | 0.06 | 0.2 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238217 | Soil | 22 | 0.33 | 172 | 0.021 | 1 | 1.19 | 0.007 | 0.06 | 0.4 | 0.03 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238218 | Soil | 19 | 0.31 | 128 | 0.012 | <1 | 0.93 | 0.005 | 0.05 | 0.3 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238219 | Soil | 20 | 0.29 | 104 | 0.017 | 2 | 0.89 | 0.007 | 0.07 | 0.5 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238220 | Soil | 33 | 0.46 | 139 | 0.026 | 1 | 1.29 | 0.015 | 0.07 | 0.5 | 0.05 | 3.8 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238221 | Soil | 0.9 | 26.4 | 18.2 | 61 | <0.1 | 27.0 | 11.8 | 388 | 2.73 | 35.7 | 2.9 | 7.9 | 12 | <0.1 | 3.8 | 0.2 | 22 | 0.23 | 0.040 | 25 |
| 1238222 | Soil | 0.9 | 34.8 | 21.2 | 69 | 0.1 | 33.9 | 13.5 | 437 | 2.98 | 44.2 | 15.0 | 10.9 | 20 | <0.1 | 4.4 | 0.3 | 25 | 0.46 | 0.058 | 36 |
| 1238223 | Soil | 0.9 | 27.8 | 17.9 | 61 | 0.1 | 27.6 | 11.1 | 373 | 2.75 | 36.0 | 4.4 | 8.6 | 18 | <0.1 | 3.7 | 0.3 | 28 | 0.40 | 0.039 | 28 |
| 1238224 | Soil | 0.7 | 37.3 | 26.1 | 77 | 0.1 | 38.3 | 13.8 | 531 | 3.01 | 51.8 | 5.6 | 10.6 | 24 | 0.2 | 5.9 | 0.3 | 30 | 0.40 | 0.073 | 31 |
| 1238225 | Soil | 0.8 | 37.5 | 23.9 | 73 | 0.1 | 38.8 | 14.8 | 553 | 2.98 | 49.2 | 5.9 | 10.1 | 24 | 0.2 | 5.5 | 0.3 | 30 | 0.40 | 0.060 | 29 |
| 1238226 | Soil | 0.8 | 38.4 | 24.7 | 76 | 0.2 | 41.9 | 13.5 | 487 | 3.19 | 43.5 | 4.3 | 8.3 | 33 | 0.1 | 5.0 | 0.3 | 30 | 0.66 | 0.051 | 33 |
| 1238227 | Soil | 1.3 | 17.3 | 15.2 | 56 | 0.2 | 21.5 | 9.2 | 290 | 3.11 | 10.4 | 1.2 | 5.6 | 7 | <0.1 | 1.4 | 0.2 | 53 | 0.07 | 0.030 | 18 |
| 1238228 | Soil | 1.1 | 36.3 | 13.3 | 62 | <0.1 | 23.2 | 10.4 | 292 | 2.91 | 11.7 | 3.5 | 6.2 | 9 | <0.1 | 1.1 | 0.2 | 51 | 0.07 | 0.017 | 21 |
| 1238229 | Soil | 1.0 | 26.2 | 14.5 | 56 | 0.2 | 24.1 | 9.4 | 246 | 2.88 | 10.1 | 2.2 | 6.6 | 7 | <0.1 | 1.6 | 0.1 | 46 | 0.07 | 0.019 | 20 |
| 1238230 | Soil | 0.9 | 21.9 | 13.1 | 53 | 0.1 | 20.8 | 8.2 | 216 | 2.57 | 8.3 | 1.0 | 6.3 | 7 | <0.1 | 1.2 | 0.1 | 44 | 0.06 | 0.014 | 20 |
| 1238231 | Soil | 0.8 | 16.3 | 12.7 | 45 | 0.2 | 17.1 | 7.1 | 176 | 2.51 | 9.4 | 3.1 | 4.4 | 6 | <0.1 | 1.3 | 0.1 | 44 | 0.06 | 0.018 | 17 |
| 1238232 | Soil | 0.8 | 26.1 | 13.3 | 50 | 0.1 | 21.5 | 8.4 | 217 | 2.56 | 7.1 | <0.5 | 8.0 | 6 | <0.1 | 1.8 | 0.1 | 34 | 0.06 | 0.014 | 26 |
| 1238233 | Soil | 1.0 | 27.2 | 14.4 | 54 | 0.2 | 23.4 | 10.0 | 274 | 2.79 | 9.5 | 3.4 | 7.3 | 8 | <0.1 | 1.9 | 0.1 | 38 | 0.06 | 0.016 | 24 |
| 1238234 | Soil | 1.2 | 28.0 | 16.1 | 57 | 0.1 | 26.6 | 11.0 | 258 | 3.04 | 7.5 | 3.7 | 8.5 | 6 | <0.1 | 3.8 | 0.2 | 31 | 0.04 | 0.030 | 36 |
| 1238235 | Soil | 0.8 | 26.1 | 18.0 | 54 | <0.1 | 24.6 | 11.6 | 332 | 2.95 | 7.9 | 1.3 | 8.6 | 9 | <0.1 | 3.1 | 0.1 | 30 | 0.12 | 0.022 | 33 |
| 1238236 | Soil | 1.0 | 28.3 | 22.6 | 61 | 0.2 | 29.9 | 12.8 | 554 | 2.94 | 6.3 | 6.5 | 7.8 | 25 | <0.1 | 2.1 | 0.2 | 29 | 0.32 | 0.024 | 36 |
| 1238237 | Soil | 1.1 | 37.1 | 21.9 | 66 | <0.1 | 31.5 | 14.2 | 381 | 3.38 | 7.7 | 3.0 | 10.0 | 18 | <0.1 | 3.0 | 0.2 | 28 | 0.27 | 0.024 | 36 |
| 1238238 | Soil | 0.7 | 23.6 | 14.0 | 56 | 0.2 | 25.8 | 13.3 | 1244 | 2.79 | 7.2 | 2.4 | 4.2 | 63 | 0.1 | 1.6 | 0.2 | 30 | 0.81 | 0.048 | 17 |
| 1238239 | Soil | 0.6 | 23.4 | 13.4 | 54 | <0.1 | 18.9 | 6.4 | 118 | 1.94 | 7.7 | 2.3 | 6.6 | 47 | 0.2 | 1.4 | 0.2 | 29 | 0.52 | 0.076 | 25 |
| 1238240 | Soil | 0.9 | 28.0 | 20.6 | 64 | 0.1 | 20.6 | 9.9 | 186 | 3.09 | 7.7 | 2.2 | 10.0 | 20 | <0.1 | 1.1 | 0.3 | 23 | 0.21 | 0.045 | 37 |
| 1238241 | Soil | 0.7 | 23.3 | 17.6 | 53 | <0.1 | 19.9 | 7.1 | 178 | 2.59 | 13.7 | 6.7 | 5.4 | 12 | <0.1 | 1.0 | 0.2 | 29 | 0.15 | 0.039 | 22 |
| 1238242 | Soil | 0.8 | 28.6 | 15.7 | 73 | 0.2 | 22.4 | 9.1 | 226 | 2.23 | 16.2 | 6.4 | 7.3 | 22 | 0.2 | 1.6 | 0.2 | 30 | 0.27 | 0.062 | 22 |
| 1238243 | Soil | 1.0 | 28.6 | 18.3 | 59 | 0.2 | 22.5 | 7.2 | 152 | 2.49 | 13.8 | 3.4 | 6.6 | 22 | <0.1 | 1.5 | 0.3 | 29 | 0.28 | 0.041 | 23 |
| 1238244 | Soil | 1.0 | 24.6 | 17.7 | 62 | 0.1 | 22.1 | 11.5 | 518 | 2.60 | 11.6 | 3.1 | 6.3 | 25 | <0.1 | 1.7 | 0.3 | 26 | 0.34 | 0.052 | 23 |
| 1238245 | Soil | 1.4 | 32.4 | 40.3 | 82 | 0.3 | 27.0 | 18.6 | 1108 | 2.99 | 70.7 | 5.8 | 8.6 | 25 | 0.2 | 5.6 | 0.5 | 28 | 0.33 | 0.043 | 24 |
| 1238246 | Soil | 1.6 | 34.9 | 40.1 | 102 | 0.2 | 36.7 | 12.3 | 426 | 3.30 | 53.9 | 5.0 | 10.4 | 24 | 0.4 | 5.9 | 0.4 | 28 | 0.31 | 0.053 | 26 |
| 1238247 | Soil | 1.0 | 29.6 | 29.1 | 86 | 0.2 | 26.3 | 10.5 | 372 | 2.65 | 48.1 | 3.7 | 7.9 | 23 | 0.3 | 5.4 | 0.4 | 21 | 0.41 | 0.044 | 21 |
| 1238248 | Soil | 1.0 | 27.1 | 32.6 | 82 | 0.2 | 24.6 | 10.6 | 518 | 2.58 | 41.2 | 27.1 | 7.6 | 29 | 0.4 | 5.1 | 0.3 | 22 | 0.55 | 0.047 | 21 |
| 1238249 | Soil | 0.5 | 17.9 | 17.4 | 64 | 0.2 | 16.0 | 5.7 | 191 | 1.63 | 15.3 | 2.4 | 4.1 | 33 | 0.4 | 2.4 | 0.2 | 22 | 0.57 | 0.058 | 14 |
| 1238250 | Soil | 1.6 | 36.2 | 26.2 | 82 | 0.2 | 25.4 | 11.0 | 333 | 4.38 | 93.5 | 8.3 | 7.2 | 24 | 0.3 | 5.8 | 0.4 | 28 | 0.35 | 0.069 | 22 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238221 | Soil | 19 | 0.25 | 81 | 0.012 | 1 | 0.77 | 0.005 | 0.05 | 0.6 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | 0.5 | 2 | <0.2 |
| 1238222 | Soil | 22 | 0.31 | 135 | 0.014 | <1 | 1.02 | 0.007 | 0.08 | 0.5 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238223 | Soil | 22 | 0.30 | 154 | 0.015 | <1 | 1.06 | 0.010 | 0.06 | 0.5 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238224 | Soil | 25 | 0.34 | 85 | 0.021 | 14 | 0.85 | 0.006 | 0.08 | 0.9 | 0.04 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238225 | Soil | 27 | 0.37 | 92 | 0.017 | <1 | 0.87 | 0.005 | 0.07 | 0.7 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238226 | Soil | 33 | 0.42 | 119 | 0.012 | <1 | 1.09 | 0.007 | 0.07 | 0.6 | 0.03 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238227 | Soil | 30 | 0.31 | 165 | 0.013 | <1 | 1.77 | 0.004 | 0.07 | 0.2 | 0.03 | 2.7 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238228 | Soil | 32 | 0.39 | 250 | 0.037 | 1 | 1.62 | 0.010 | 0.09 | 0.2 | 0.06 | 5.9 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238229 | Soil | 29 | 0.32 | 172 | 0.018 | <1 | 1.57 | 0.007 | 0.06 | 0.2 | 0.02 | 3.5 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238230 | Soil | 28 | 0.33 | 182 | 0.018 | <1 | 1.52 | 0.005 | 0.05 | 0.2 | 0.04 | 3.3 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238231 | Soil | 24 | 0.25 | 147 | 0.015 | <1 | 1.31 | 0.009 | 0.05 | 0.2 | 0.03 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238232 | Soil | 23 | 0.25 | 124 | 0.012 | <1 | 1.24 | 0.003 | 0.05 | 0.2 | 0.04 | 3.3 | 0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238233 | Soil | 24 | 0.26 | 157 | 0.017 | <1 | 1.27 | 0.007 | 0.07 | 0.2 | 0.04 | 3.4 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238234 | Soil | 19 | 0.12 | 88 | 0.007 | 1 | 0.77 | 0.003 | 0.08 | 0.1 | 0.01 | 1.7 | 0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238235 | Soil | 19 | 0.19 | 155 | 0.006 | <1 | 0.94 | 0.003 | 0.07 | 0.1 | 0.03 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238236 | Soil | 21 | 0.17 | 273 | 0.006 | <1 | 1.00 | 0.004 | 0.08 | 0.1 | 0.03 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238237 | Soil | 20 | 0.15 | 173 | 0.007 | 1 | 0.80 | 0.009 | 0.08 | <0.1 | 0.05 | 2.8 | 0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238238 | Soil | 19 | 0.24 | 299 | 0.007 | 1 | 0.96 | 0.006 | 0.06 | 0.2 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1238239 | Soil | 16 | 0.27 | 201 | 0.021 | 2 | 0.77 | 0.014 | 0.04 | 0.4 | 0.03 | 2.3 | <0.1 | 0.07 | 3 | <0.5 | <1 | <0.2 |
| 1238240 | Soil | 18 | 0.34 | 155 | 0.005 | 2 | 0.98 | 0.005 | 0.04 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238241 | Soil | 19 | 0.31 | 130 | 0.010 | 1 | 1.09 | 0.004 | 0.03 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238242 | Soil | 20 | 0.39 | 218 | 0.028 | 2 | 0.92 | 0.009 | 0.06 | 0.5 | 0.05 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238243 | Soil | 19 | 0.33 | 220 | 0.015 | <1 | 1.09 | 0.006 | 0.03 | 0.4 | 0.04 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238244 | Soil | 20 | 0.31 | 237 | 0.010 | <1 | 0.95 | 0.006 | 0.04 | 0.3 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238245 | Soil | 23 | 0.39 | 212 | 0.011 | <1 | 1.20 | 0.014 | 0.06 | 0.9 | 0.04 | 2.8 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238246 | Soil | 30 | 0.48 | 110 | 0.021 | 2 | 1.31 | 0.015 | 0.09 | 0.9 | 0.06 | 3.4 | 0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238247 | Soil | 20 | 0.36 | 92 | 0.016 | 2 | 0.95 | 0.009 | 0.08 | 0.8 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238248 | Soil | 22 | 0.39 | 111 | 0.018 | 1 | 0.99 | 0.011 | 0.07 | 1.0 | 0.05 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238249 | Soil | 17 | 0.31 | 140 | 0.016 | 2 | 0.74 | 0.011 | 0.04 | 0.5 | 0.06 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238250 | Soil | 22 | 0.36 | 183 | 0.013 | 1 | 1.03 | 0.006 | 0.05 | 0.7 | 0.06 | 2.8 | <0.1 | <0.05 | 3 | 0.7 | 2 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238251 | Soil | 1.0 | 35.6 | 28.2 | 85 | 0.2 | 28.9 | 14.5 | 505 | 3.14 | 49.8 | 134.2 | 9.5 | 19 | 0.3 | 5.2 | 0.4 | 28 | 0.27 | 0.061 | 26 |
| 1238252 | Soil | 1.0 | 20.7 | 14.3 | 50 | <0.1 | 16.6 | 6.9 | 158 | 2.23 | 11.8 | 10.7 | 6.6 | 9 | <0.1 | 1.0 | 0.2 | 28 | 0.07 | 0.026 | 19 |
| 1238253 | Soil | 0.8 | 24.6 | 16.8 | 50 | <0.1 | 19.0 | 7.4 | 206 | 2.28 | 18.9 | 3.2 | 5.7 | 12 | <0.1 | 1.5 | 0.2 | 30 | 0.14 | 0.036 | 16 |
| 1238254 | Soil | 0.7 | 23.4 | 11.9 | 53 | <0.1 | 18.6 | 6.3 | 221 | 1.85 | 18.9 | 5.8 | 5.6 | 17 | <0.1 | 1.9 | 0.2 | 23 | 0.23 | 0.061 | 18 |
| 1238255 | Soil | 0.8 | 25.1 | 19.4 | 61 | 0.1 | 21.1 | 8.1 | 245 | 2.32 | 19.3 | 2.5 | 4.4 | 17 | 0.2 | 3.5 | 0.2 | 28 | 0.25 | 0.050 | 20 |
| 1238256 | Soil | 0.6 | 12.6 | 7.6 | 40 | <0.1 | 12.3 | 5.6 | 188 | 1.57 | 10.8 | 3.4 | 2.9 | 10 | <0.1 | 0.6 | 0.1 | 24 | 0.13 | 0.043 | 10 |
| 1238257 | Soil | 0.8 | 15.3 | 9.8 | 40 | <0.1 | 14.1 | 8.5 | 452 | 2.01 | 11.4 | 1.0 | 1.9 | 26 | 0.1 | 0.7 | 0.1 | 29 | 0.55 | 0.059 | 11 |
| 1238258 | Soil | 0.6 | 18.3 | 9.1 | 54 | <0.1 | 17.7 | 9.0 | 236 | 1.63 | 9.3 | 2.1 | 3.3 | 21 | 0.2 | 1.2 | 0.1 | 23 | 0.31 | 0.062 | 13 |
| 1238259 | Soil | 0.7 | 21.8 | 8.6 | 52 | <0.1 | 19.9 | 6.9 | 310 | 1.78 | 13.6 | 3.9 | 4.4 | 12 | 0.2 | 0.8 | 0.1 | 27 | 0.15 | 0.051 | 14 |
| 1238260 | Soil | 0.6 | 31.7 | 20.4 | 61 | <0.1 | 24.4 | 10.5 | 380 | 2.40 | 27.1 | 19.9 | 10.6 | 14 | <0.1 | 5.0 | 0.3 | 20 | 0.15 | 0.052 | 31 |
| 1238261 | Soil | 0.9 | 12.9 | 12.2 | 37 | 0.1 | 13.2 | 5.5 | 130 | 1.80 | 13.3 | 1.8 | 3.5 | 13 | <0.1 | 0.9 | 0.2 | 35 | 0.17 | 0.035 | 12 |
| 1238262 | Soil | 0.6 | 14.4 | 8.3 | 46 | <0.1 | 14.0 | 7.0 | 285 | 1.62 | 14.3 | 1.0 | 2.8 | 28 | 0.1 | 0.6 | 0.2 | 22 | 0.42 | 0.059 | 9 |
| 1238263 | Soil | 0.7 | 18.2 | 11.2 | 40 | <0.1 | 12.7 | 5.5 | 165 | 1.87 | 16.4 | 5.7 | 2.5 | 18 | <0.1 | 1.1 | 0.2 | 28 | 0.29 | 0.054 | 13 |
| 1238264 | Soil | 0.9 | 34.1 | 25.3 | 77 | 0.2 | 29.9 | 12.1 | 544 | 2.95 | 37.3 | 21.7 | 11.2 | 18 | 0.3 | 4.3 | 0.3 | 21 | 0.24 | 0.052 | 30 |
| 1238265 | Soil | 0.8 | 22.7 | 21.3 | 69 | 0.2 | 21.7 | 9.4 | 391 | 2.33 | 27.3 | 3.0 | 7.4 | 20 | 0.2 | 2.3 | 0.2 | 19 | 0.31 | 0.052 | 22 |
| 1238266 | Soil | 0.9 | 27.1 | 20.1 | 77 | 0.2 | 23.4 | 10.6 | 519 | 2.60 | 27.5 | 10.1 | 7.0 | 28 | 0.2 | 2.9 | 0.3 | 26 | 0.47 | 0.060 | 22 |
| 1238267 | Soil | 0.8 | 35.5 | 24.0 | 60 | 0.1 | 33.4 | 12.2 | 445 | 3.19 | 9.6 | 1.7 | 6.7 | 76 | 0.1 | 2.0 | 0.3 | 19 | 0.97 | 0.056 | 27 |
| 1238268 | Soil | 1.3 | 40.0 | 25.3 | 74 | <0.1 | 42.1 | 14.8 | 383 | 3.45 | 13.4 | 1.8 | 13.1 | 36 | 0.1 | 1.9 | 0.2 | 29 | 0.47 | 0.030 | 33 |
| 1238269 | Soil | 1.1 | 34.6 | 27.1 | 64 | 0.1 | 36.1 | 15.6 | 514 | 3.27 | 10.6 | 0.7 | 12.6 | 53 | 0.1 | 1.8 | 0.3 | 20 | 0.62 | 0.029 | 33 |
| 1238270 | Soil | 0.9 | 29.5 | 22.0 | 59 | 0.1 | 29.3 | 11.7 | 459 | 2.86 | 10.8 | 6.4 | 9.2 | 54 | 0.1 | 1.7 | 0.2 | 24 | 0.73 | 0.045 | 28 |
| 1238271 | Soil | 0.7 | 24.0 | 17.2 | 73 | 0.2 | 18.8 | 7.6 | 292 | 2.18 | 18.7 | 2.8 | 5.4 | 31 | 0.3 | 2.0 | 0.2 | 27 | 0.51 | 0.063 | 18 |
| 1238272 | Soil | 0.7 | 29.0 | 19.6 | 69 | 0.2 | 24.7 | 8.7 | 503 | 2.26 | 19.6 | 6.5 | 5.6 | 26 | 0.3 | 2.1 | 0.2 | 21 | 0.41 | 0.055 | 21 |
| 1238273 | Soil | 1.1 | 35.5 | 31.7 | 76 | 0.2 | 28.4 | 12.5 | 383 | 3.41 | 31.8 | 2.4 | 11.7 | 16 | 0.2 | 8.5 | 0.5 | 22 | 0.18 | 0.047 | 31 |
| 1238274 | Soil | 0.8 | 29.2 | 23.4 | 77 | 0.2 | 26.6 | 11.3 | 356 | 2.59 | 30.8 | 3.1 | 10.0 | 39 | 0.3 | 4.7 | 0.3 | 23 | 0.96 | 0.070 | 25 |
| 1238601 | Soil | 1.2 | 12.8 | 16.4 | 41 | <0.1 | 14.4 | 5.6 | 175 | 2.86 | 10.7 | 2.4 | 4.0 | 8 | <0.1 | 1.7 | 0.3 | 58 | 0.06 | 0.030 | 17 |
| 1238602 | Soil | 0.8 | 23.0 | 19.1 | 36 | <0.1 | 15.9 | 6.2 | 124 | 2.19 | 5.0 | 1.5 | 6.5 | 5 | <0.1 | 5.2 | 0.2 | 19 | 0.02 | 0.017 | 28 |
| 1238603 | Soil | 1.4 | 24.4 | 17.6 | 54 | <0.1 | 24.0 | 10.7 | 274 | 3.05 | 10.0 | 2.4 | 6.2 | 6 | <0.1 | 5.0 | 0.3 | 36 | 0.03 | 0.029 | 20 |
| 1238604 | Soil | 0.9 | 17.5 | 14.7 | 41 | <0.1 | 17.7 | 7.4 | 226 | 2.24 | 31.0 | 11.1 | 6.9 | 9 | <0.1 | 12.3 | 0.2 | 30 | 0.03 | 0.016 | 19 |
| 1238605 | Soil | 1.2 | 13.7 | 14.3 | 51 | <0.1 | 19.8 | 9.4 | 313 | 2.85 | 14.3 | 4.5 | 4.7 | 6 | <0.1 | 1.5 | 0.2 | 49 | 0.05 | 0.028 | 11 |
| 1238606 | Soil | 1.5 | 34.1 | 14.9 | 57 | 0.2 | 22.8 | 10.1 | 346 | 2.94 | 13.2 | 12.3 | 6.5 | 7 | <0.1 | 3.1 | 0.2 | 49 | 0.05 | 0.021 | 18 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238251 | Soil | 24 | 0.40 | 145 | 0.020 | 1 | 1.07 | 0.009 | 0.06 | 0.8 | 0.05 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238252 | Soil | 19 | 0.33 | 125 | 0.014 | <1 | 1.05 | 0.006 | 0.03 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238253 | Soil | 18 | 0.33 | 144 | 0.016 | 1 | 1.08 | 0.006 | 0.05 | 0.3 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238254 | Soil | 17 | 0.29 | 191 | 0.018 | <1 | 0.79 | 0.009 | 0.04 | 0.4 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238255 | Soil | 19 | 0.30 | 202 | 0.014 | 1 | 0.86 | 0.006 | 0.05 | 0.2 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238256 | Soil | 12 | 0.21 | 105 | 0.016 | <1 | 0.68 | 0.003 | 0.02 | 0.2 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238257 | Soil | 16 | 0.25 | 318 | 0.013 | <1 | 0.78 | 0.006 | 0.02 | 0.2 | 0.04 | 2.0 | <0.1 | <0.05 | 2 | 0.7 | <1 | <0.2 |
| 1238258 | Soil | 15 | 0.27 | 215 | 0.014 | 1 | 0.70 | 0.005 | 0.04 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238259 | Soil | 15 | 0.27 | 175 | 0.025 | <1 | 0.77 | 0.004 | 0.03 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238260 | Soil | 17 | 0.27 | 135 | 0.016 | <1 | 0.80 | 0.006 | 0.06 | 0.5 | 0.06 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238261 | Soil | 17 | 0.24 | 172 | 0.015 | <1 | 0.97 | 0.004 | 0.03 | 0.3 | 0.03 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238262 | Soil | 12 | 0.26 | 158 | 0.015 | <1 | 0.58 | 0.006 | 0.02 | <0.1 | 0.02 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238263 | Soil | 15 | 0.26 | 222 | 0.011 | <1 | 0.76 | 0.005 | 0.03 | 0.4 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238264 | Soil | 19 | 0.31 | 132 | 0.013 | 1 | 0.87 | 0.006 | 0.09 | 0.3 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238265 | Soil | 15 | 0.29 | 139 | 0.012 | 1 | 0.69 | 0.004 | 0.04 | 0.3 | 0.05 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238266 | Soil | 20 | 0.37 | 213 | 0.014 | 1 | 0.96 | 0.009 | 0.07 | 0.3 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238267 | Soil | 19 | 0.34 | 120 | 0.003 | 2 | 1.05 | 0.004 | 0.08 | 0.1 | 0.05 | 3.8 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238268 | Soil | 32 | 0.58 | 165 | 0.006 | <1 | 1.56 | 0.005 | 0.10 | 0.1 | 0.04 | 3.5 | <0.1 | <0.05 | 5 | <0.5 | 5 | <0.2 |
| 1238269 | Soil | 20 | 0.33 | 92 | 0.003 | 1 | 1.00 | 0.004 | 0.09 | 0.1 | 0.05 | 3.4 | <0.1 | <0.05 | 3 | 0.5 | 2 | <0.2 |
| 1238270 | Soil | 20 | 0.45 | 131 | 0.009 | <1 | 1.07 | 0.006 | 0.07 | 0.2 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238271 | Soil | 18 | 0.36 | 192 | 0.017 | <1 | 0.83 | 0.008 | 0.05 | 0.4 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238272 | Soil | 16 | 0.30 | 191 | 0.011 | <1 | 0.78 | 0.006 | 0.05 | 0.3 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | 0.6 | 2 | <0.2 |
| 1238273 | Soil | 23 | 0.33 | 129 | 0.011 | 2 | 0.96 | 0.006 | 0.14 | 0.3 | 0.06 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238274 | Soil | 17 | 0.48 | 143 | 0.019 | 1 | 0.81 | 0.007 | 0.10 | 0.5 | 0.05 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238601 | Soil | 31 | 0.32 | 186 | 0.020 | 2 | 1.46 | 0.005 | 0.04 | 0.2 | 0.04 | 3.1 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238602 | Soil | 14 | 0.12 | 92 | 0.005 | <1 | 0.76 | 0.003 | 0.09 | <0.1 | 0.02 | 1.3 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238603 | Soil | 24 | 0.25 | 126 | 0.011 | 1 | 1.25 | 0.004 | 0.07 | 0.2 | 0.02 | 2.2 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238604 | Soil | 18 | 0.21 | 127 | 0.010 | 2 | 1.09 | 0.003 | 0.06 | 0.1 | 0.02 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238605 | Soil | 30 | 0.36 | 133 | 0.027 | <1 | 1.52 | 0.008 | 0.04 | 0.2 | 0.02 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238606 | Soil | 32 | 0.42 | 192 | 0.031 | 1 | 1.69 | 0.005 | 0.05 | 0.3 | 0.04 | 6.5 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238607 | Soil | 1.2 | 25.9 | 14.7 | 56 | <0.1 | 25.2 | 10.6 | 297 | 2.85 | 10.2 | 2.4 | 7.2 | 11 | <0.1 | 4.4 | 0.2 | 43 | 0.06 | 0.017 | 22 |
| 1238608 | Soil | 1.5 | 18.6 | 14.8 | 46 | 0.1 | 17.8 | 7.3 | 256 | 2.73 | 12.4 | 6.7 | 5.2 | 7 | <0.1 | 1.8 | 0.2 | 49 | 0.05 | 0.021 | 14 |
| 1238609 | Soil | 0.6 | 20.8 | 13.8 | 40 | <0.1 | 19.7 | 8.1 | 198 | 2.63 | 8.5 | 1.7 | 7.9 | 6 | <0.1 | 4.0 | 0.2 | 35 | 0.04 | 0.012 | 22 |
| 1238610 | Soil | 1.2 | 29.8 | 15.9 | 59 | <0.1 | 27.5 | 10.7 | 283 | 2.83 | 8.7 | 1.9 | 8.4 | 9 | <0.1 | 4.0 | 0.2 | 40 | 0.07 | 0.014 | 24 |
| 1238611 | Soil | 1.8 | 19.5 | 17.0 | 39 | 0.4 | 20.9 | 8.2 | 210 | 2.89 | 12.4 | 0.6 | 4.4 | 9 | 0.1 | 2.9 | 0.2 | 42 | 0.06 | 0.023 | 17 |
| 1238612 | Soil | 1.0 | 17.0 | 12.9 | 47 | <0.1 | 19.3 | 6.7 | 198 | 2.50 | 10.7 | 2.1 | 5.0 | 7 | <0.1 | 1.7 | 0.1 | 45 | 0.05 | 0.019 | 14 |
| 1238613 | Soil | 1.3 | 16.6 | 15.3 | 56 | <0.1 | 18.6 | 7.5 | 213 | 2.78 | 13.7 | 5.1 | 4.6 | 8 | 0.1 | 1.6 | 0.2 | 53 | 0.06 | 0.025 | 14 |
| 1238614 | Soil | 1.0 | 17.8 | 12.6 | 53 | <0.1 | 19.4 | 7.8 | 199 | 2.53 | 13.4 | 5.2 | 5.4 | 6 | 0.1 | 1.3 | 0.3 | 44 | 0.05 | 0.019 | 17 |
| 1238615 | Soil | 1.1 | 23.1 | 14.9 | 53 | <0.1 | 22.9 | 8.8 | 341 | 2.40 | 11.8 | 5.7 | 1.9 | 9 | <0.1 | 5.6 | 0.2 | 38 | 0.07 | 0.027 | 18 |
| 1238616 | Soil | 0.9 | 15.2 | 13.9 | 46 | <0.1 | 17.7 | 7.7 | 226 | 2.51 | 27.7 | 10.4 | 5.2 | 5 | <0.1 | 5.5 | 0.2 | 42 | 0.04 | 0.020 | 15 |
| 1238617 | Soil | 1.1 | 25.9 | 14.9 | 58 | <0.1 | 22.5 | 10.3 | 303 | 2.98 | 46.0 | 8.3 | 6.8 | 9 | <0.1 | 27.2 | 0.2 | 44 | 0.06 | 0.022 | 20 |
| 1238618 | Soil | 1.0 | 27.4 | 14.6 | 62 | <0.1 | 22.0 | 10.5 | 365 | 2.81 | 13.7 | 3.1 | 6.1 | 10 | <0.1 | 2.2 | 0.2 | 44 | 0.09 | 0.030 | 22 |
| 1238619 | Soil | 1.0 | 29.1 | 18.6 | 57 | 0.1 | 27.1 | 11.0 | 279 | 3.05 | 10.8 | 7.9 | 8.1 | 7 | <0.1 | 4.3 | 0.2 | 39 | 0.06 | 0.020 | 24 |
| 1238620 | Soil | 1.1 | 24.7 | 16.0 | 52 | <0.1 | 23.3 | 10.6 | 286 | 2.87 | 10.1 | 4.7 | 8.2 | 8 | <0.1 | 3.6 | 0.2 | 42 | 0.07 | 0.020 | 24 |
| 1238621 | Soil | 0.9 | 10.1 | 14.9 | 33 | <0.1 | 10.6 | 4.8 | 152 | 2.40 | 10.8 | 5.2 | 4.8 | 8 | <0.1 | 1.2 | 0.2 | 43 | 0.08 | 0.018 | 17 |
| 1238622 | Soil | 0.9 | 10.1 | 15.6 | 46 | <0.1 | 11.9 | 5.1 | 152 | 2.44 | 12.9 | 3.9 | 3.9 | 6 | <0.1 | 1.5 | 0.2 | 49 | 0.06 | 0.028 | 15 |
| 1238623 | Soil | 0.9 | 19.2 | 18.5 | 53 | <0.1 | 21.9 | 10.0 | 346 | 2.83 | 11.9 | 2.5 | 6.4 | 7 | 0.1 | 2.7 | 0.1 | 33 | 0.07 | 0.031 | 24 |
| 1238624 | Soil | 0.9 | 15.4 | 15.5 | 38 | <0.1 | 15.8 | 7.6 | 317 | 2.66 | 11.5 | 4.6 | 4.5 | 8 | <0.1 | 2.0 | 0.2 | 38 | 0.06 | 0.032 | 22 |
| 1238625 | Soil | 0.7 | 26.8 | 15.9 | 55 | <0.1 | 21.8 | 11.0 | 500 | 2.62 | 7.5 | 2.9 | 8.8 | 12 | 0.2 | 2.8 | 0.2 | 24 | 0.14 | 0.055 | 32 |
| 1238626 | Soil | 0.9 | 35.8 | 18.3 | 72 | 0.1 | 32.1 | 14.4 | 431 | 3.12 | 7.1 | 3.0 | 10.9 | 16 | 0.1 | 4.8 | 0.2 | 25 | 0.20 | 0.058 | 35 |
| 1238627 | Soil | 0.9 | 23.3 | 12.6 | 60 | 0.1 | 21.9 | 8.8 | 288 | 2.32 | 7.9 | 3.3 | 4.8 | 16 | 0.1 | 1.6 | 0.1 | 30 | 0.20 | 0.049 | 21 |
| 1238628 | Soil | 0.7 | 19.6 | 10.0 | 53 | 0.1 | 17.5 | 6.4 | 166 | 1.92 | 8.0 | 10.1 | 3.9 | 14 | 0.1 | 1.2 | 0.1 | 28 | 0.19 | 0.051 | 17 |
| 1238629 | Soil | 0.7 | 21.0 | 12.9 | 57 | 0.1 | 18.0 | 8.1 | 208 | 2.21 | 8.4 | 2.2 | 5.0 | 13 | 0.2 | 1.6 | 0.1 | 31 | 0.18 | 0.053 | 21 |
| 1238630 | Soil | 0.9 | 18.9 | 11.9 | 53 | <0.1 | 19.8 | 8.0 | 273 | 2.22 | 7.9 | 1.9 | 7.2 | 13 | 0.2 | 2.1 | 0.1 | 29 | 0.16 | 0.042 | 23 |
| 1238631 | Soil | 0.9 | 26.7 | 20.9 | 55 | <0.1 | 18.6 | 11.5 | 455 | 2.55 | 15.0 | 2.6 | 8.4 | 13 | 0.1 | 3.9 | 0.2 | 26 | 0.14 | 0.044 | 32 |
| 1238632 | Soil | 0.8 | 20.2 | 15.5 | 52 | <0.1 | 21.0 | 9.8 | 300 | 2.27 | 27.8 | 3.0 | 7.1 | 12 | <0.1 | 3.7 | 0.1 | 23 | 0.11 | 0.036 | 26 |
| 1238633 | Soil | 1.0 | 28.2 | 17.5 | 64 | 0.1 | 24.3 | 9.4 | 245 | 2.41 | 13.3 | 3.4 | 9.8 | 15 | 0.1 | 3.6 | 0.1 | 24 | 0.19 | 0.044 | 32 |
| 1238634 | Soil | 0.7 | 25.9 | 16.2 | 58 | 0.1 | 22.4 | 8.3 | 234 | 2.29 | 12.2 | 3.6 | 8.1 | 16 | 0.2 | 4.0 | 0.2 | 24 | 0.21 | 0.044 | 31 |
| 1238635 | Soil | 0.9 | 19.2 | 12.6 | 57 | <0.1 | 19.3 | 8.6 | 249 | 2.09 | 17.6 | 9.7 | 6.5 | 17 | 0.2 | 2.5 | 0.2 | 29 | 0.23 | 0.048 | 20 |
| 1238636 | Soil | 0.7 | 19.5 | 12.5 | 54 | <0.1 | 18.0 | 8.4 | 267 | 1.99 | 10.5 | 2.9 | 6.0 | 20 | 0.1 | 2.0 | 0.1 | 29 | 0.32 | 0.049 | 22 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238607 | Soil | 26 | 0.34 | 238 | 0.024 | 2 | 1.34 | 0.008 | 0.06 | 0.2 | 0.04 | 4.3 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238608 | Soil | 30 | 0.38 | 149 | 0.033 | 2 | 1.59 | 0.004 | 0.05 | 0.2 | 0.04 | 3.8 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238609 | Soil | 20 | 0.26 | 140 | 0.015 | 2 | 1.30 | 0.004 | 0.07 | 0.1 | 0.02 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238610 | Soil | 24 | 0.34 | 172 | 0.027 | 2 | 1.25 | 0.008 | 0.08 | 0.2 | 0.02 | 3.7 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238611 | Soil | 25 | 0.25 | 206 | 0.012 | 1 | 1.43 | 0.004 | 0.06 | 0.2 | 0.03 | 2.0 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238612 | Soil | 25 | 0.32 | 192 | 0.019 | 1 | 1.45 | 0.007 | 0.04 | 0.2 | 0.03 | 2.9 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238613 | Soil | 29 | 0.34 | 196 | 0.025 | 1 | 1.57 | 0.005 | 0.05 | 0.2 | 0.02 | 2.9 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238614 | Soil | 26 | 0.36 | 166 | 0.030 | 1 | 1.30 | 0.004 | 0.04 | 0.2 | 0.06 | 3.9 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238615 | Soil | 26 | 0.34 | 173 | 0.018 | 1 | 1.20 | 0.005 | 0.05 | 0.2 | 0.06 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238616 | Soil | 26 | 0.29 | 126 | 0.016 | 2 | 1.39 | 0.004 | 0.04 | 0.3 | 0.03 | 2.5 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238617 | Soil | 28 | 0.36 | 172 | 0.025 | 2 | 1.44 | 0.009 | 0.07 | 0.2 | 0.07 | 4.4 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238618 | Soil | 31 | 0.42 | 161 | 0.034 | 2 | 1.32 | 0.009 | 0.06 | 0.2 | 0.07 | 4.5 | 0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1238619 | Soil | 27 | 0.35 | 135 | 0.017 | 1 | 1.44 | 0.005 | 0.07 | 0.2 | 0.03 | 2.5 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238620 | Soil | 28 | 0.34 | 161 | 0.019 | 2 | 1.35 | 0.005 | 0.07 | 0.2 | 0.04 | 3.8 | 0.2 | 0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238621 | Soil | 22 | 0.24 | 112 | 0.016 | 1 | 1.36 | 0.004 | 0.04 | 0.2 | 0.03 | 2.2 | 0.1 | 0.06 | 5 | <0.5 | <1 | <0.2 |
| 1238622 | Soil | 20 | 0.22 | 71 | 0.014 | 1 | 1.23 | 0.004 | 0.04 | 0.2 | <0.01 | 1.6 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238623 | Soil | 21 | 0.25 | 94 | 0.010 | 1 | 1.13 | 0.004 | 0.09 | 0.2 | 0.02 | 1.8 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238624 | Soil | 20 | 0.20 | 118 | 0.012 | <1 | 1.05 | 0.004 | 0.08 | 0.2 | 0.01 | 1.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238625 | Soil | 16 | 0.25 | 105 | 0.014 | <1 | 0.77 | 0.004 | 0.10 | 0.2 | 0.03 | 1.8 | 0.1 | 0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238626 | Soil | 18 | 0.26 | 134 | 0.016 | <1 | 0.84 | 0.005 | 0.10 | 0.2 | 0.03 | 2.4 | 0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1238627 | Soil | 20 | 0.31 | 294 | 0.017 | 1 | 1.02 | 0.006 | 0.09 | 0.2 | 0.05 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238628 | Soil | 19 | 0.29 | 202 | 0.015 | 1 | 0.91 | 0.005 | 0.05 | 0.3 | 0.06 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238629 | Soil | 20 | 0.33 | 226 | 0.014 | 2 | 0.98 | 0.006 | 0.06 | 0.3 | 0.05 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238630 | Soil | 19 | 0.28 | 140 | 0.017 | 1 | 0.92 | 0.005 | 0.07 | 0.3 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238631 | Soil | 18 | 0.24 | 125 | 0.015 | 1 | 0.86 | 0.007 | 0.09 | 0.3 | 0.02 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238632 | Soil | 18 | 0.19 | 128 | 0.010 | <1 | 0.73 | 0.004 | 0.07 | 0.2 | 0.02 | 1.7 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238633 | Soil | 17 | 0.24 | 140 | 0.020 | <1 | 0.75 | 0.009 | 0.08 | 0.2 | 0.04 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238634 | Soil | 17 | 0.22 | 144 | 0.015 | 1 | 0.71 | 0.006 | 0.09 | 0.3 | 0.03 | 1.9 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238635 | Soil | 19 | 0.30 | 144 | 0.023 | <1 | 0.80 | 0.007 | 0.07 | 0.4 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238636 | Soil | 19 | 0.29 | 175 | 0.019 | 1 | 0.82 | 0.008 | 0.06 | 0.4 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238637 | Soil | 1.3 | 28.3 | 10.1 | 72 | 0.1 | 28.8 | 9.5 | 283 | 2.28 | 10.2 | 2.2 | 6.6 | 22 | 0.2 | 1.3 | 0.1 | 38 | 0.32 | 0.066 | 21 |
| 1238638 | Soil | 1.1 | 27.1 | 13.0 | 56 | 0.1 | 26.5 | 10.4 | 360 | 2.28 | 10.5 | 2.7 | 6.0 | 23 | 0.1 | 1.2 | 0.2 | 35 | 0.39 | 0.051 | 21 |
| 1238639 | Soil | 0.8 | 32.3 | 16.1 | 55 | <0.1 | 27.7 | 13.1 | 463 | 2.83 | 6.3 | 1.3 | 9.9 | 8 | <0.1 | 5.7 | 0.2 | 30 | 0.05 | 0.020 | 31 |
| 1238640 | Soil | 1.1 | 32.1 | 13.9 | 62 | <0.1 | 27.4 | 12.5 | 414 | 3.04 | 11.5 | 2.5 | 6.7 | 12 | <0.1 | 2.5 | 0.2 | 53 | 0.09 | 0.022 | 21 |
| 1238641 | Soil | 1.1 | 32.1 | 13.3 | 64 | <0.1 | 26.9 | 11.5 | 397 | 2.90 | 9.5 | 2.2 | 5.3 | 14 | <0.1 | 1.3 | 0.2 | 50 | 0.13 | 0.021 | 21 |
| 1238642 | Soil | 1.0 | 26.7 | 10.3 | 53 | <0.1 | 23.0 | 9.0 | 312 | 2.42 | 9.1 | 1.8 | 5.1 | 13 | <0.1 | 0.9 | 0.1 | 44 | 0.13 | 0.017 | 19 |
| 1238643 | Soil | 1.0 | 18.7 | 12.9 | 47 | <0.1 | 18.7 | 7.9 | 202 | 2.39 | 7.6 | 3.0 | 5.4 | 6 | <0.1 | 2.3 | 0.1 | 36 | 0.05 | 0.021 | 21 |
| 1238644 | Soil | 1.1 | 24.6 | 11.0 | 53 | <0.1 | 20.0 | 8.1 | 259 | 2.51 | 10.8 | 12.8 | 6.1 | 8 | <0.1 | 1.2 | 0.1 | 42 | 0.07 | 0.018 | 21 |
| 1238645 | Soil | 0.9 | 18.4 | 12.3 | 48 | 0.1 | 17.3 | 9.3 | 328 | 2.47 | 8.6 | 2.8 | 5.2 | 11 | <0.1 | 1.1 | 0.1 | 40 | 0.10 | 0.028 | 19 |
| 1238646 | Soil | 0.5 | 51.1 | 26.0 | 92 | 0.2 | 49.4 | 22.1 | 792 | 4.31 | 3.9 | <0.5 | 16.6 | 22 | <0.1 | 2.0 | 0.3 | 19 | 0.28 | 0.057 | 51 |
| 1238647 | Soil | 0.7 | 27.4 | 11.6 | 46 | 0.2 | 23.1 | 10.1 | 460 | 1.99 | 6.5 | 2.4 | 3.3 | 83 | 0.2 | 1.5 | 0.1 | 24 | 1.12 | 0.046 | 18 |
| 1238648 | Soil | 1.1 | 34.7 | 14.4 | 57 | 0.2 | 29.6 | 12.9 | 476 | 2.74 | 9.4 | 2.6 | 6.0 | 29 | 0.2 | 2.2 | 0.2 | 33 | 0.40 | 0.043 | 28 |
| 1238649 | Soil | 1.0 | 31.1 | 15.2 | 57 | 0.1 | 28.2 | 11.6 | 361 | 2.73 | 13.5 | 2.2 | 7.3 | 16 | <0.1 | 3.6 | 0.2 | 28 | 0.18 | 0.035 | 31 |
| 1238650 | Soil | 1.0 | 33.6 | 16.0 | 68 | <0.1 | 32.7 | 11.5 | 323 | 3.27 | 19.9 | 5.7 | 12.6 | 14 | <0.1 | 4.0 | 0.2 | 25 | 0.08 | 0.028 | 46 |
| 1238651 | Soil | 0.8 | 34.2 | 17.5 | 70 | <0.1 | 29.7 | 13.4 | 435 | 3.12 | 41.4 | 5.4 | 10.2 | 16 | <0.1 | 16.4 | 0.2 | 36 | 0.19 | 0.049 | 35 |
| 1238652 | Soil | 0.9 | 28.7 | 12.6 | 54 | <0.1 | 23.9 | 8.4 | 260 | 2.50 | 23.6 | 6.9 | 7.7 | 10 | <0.1 | 3.0 | 0.2 | 32 | 0.10 | 0.023 | 28 |
| 1238653 | Soil | 0.9 | 27.3 | 14.3 | 57 | 0.1 | 24.6 | 11.4 | 414 | 2.63 | 22.2 | 2.8 | 7.0 | 17 | <0.1 | 3.1 | 0.2 | 38 | 0.21 | 0.035 | 25 |
| 1238654 | Soil | 1.1 | 33.3 | 19.5 | 77 | 0.1 | 31.2 | 11.8 | 449 | 2.59 | 57.2 | 8.3 | 7.9 | 16 | 0.3 | 4.1 | 0.2 | 28 | 0.27 | 0.060 | 24 |
| 1238655 | Soil | 0.9 | 28.6 | 15.0 | 61 | 0.1 | 25.4 | 8.6 | 296 | 2.44 | 29.3 | 154.3 | 6.2 | 16 | <0.1 | 2.9 | 0.2 | 35 | 0.25 | 0.041 | 22 |
| 1238656 | Soil | 0.9 | 28.3 | 15.5 | 62 | 0.1 | 27.1 | 9.4 | 347 | 2.53 | 38.1 | 5.0 | 7.2 | 16 | <0.1 | 3.9 | 0.2 | 32 | 0.25 | 0.047 | 26 |
| 1238657 | Soil | 1.3 | 29.8 | 15.7 | 61 | 0.1 | 29.3 | 10.2 | 357 | 2.52 | 33.1 | 3.9 | 6.9 | 17 | 0.2 | 3.4 | 0.2 | 35 | 0.25 | 0.050 | 25 |
| 1238658 | Soil | 1.3 | 37.0 | 20.5 | 73 | 0.1 | 37.4 | 13.1 | 403 | 2.93 | 54.8 | 10.9 | 11.3 | 19 | 0.2 | 3.7 | 0.2 | 27 | 0.26 | 0.053 | 36 |
| 1238659 | Soil | 1.0 | 31.9 | 18.5 | 72 | 0.2 | 31.3 | 11.8 | 375 | 2.84 | 36.2 | 11.8 | 10.0 | 22 | 0.1 | 3.2 | 0.2 | 31 | 0.32 | 0.057 | 32 |
| 1238660 | Soil | 1.6 | 36.4 | 21.4 | 79 | 0.2 | 34.0 | 11.9 | 416 | 2.80 | 53.7 | 9.7 | 8.9 | 18 | 0.2 | 4.5 | 0.3 | 32 | 0.30 | 0.059 | 30 |
| 1238661 | Soil | 1.6 | 38.9 | 17.0 | 76 | 0.1 | 35.3 | 11.5 | 272 | 2.88 | 37.9 | 6.5 | 7.0 | 14 | 0.2 | 2.1 | 0.2 | 53 | 0.15 | 0.018 | 23 |
| 1238662 | Soil | 1.4 | 42.5 | 24.0 | 80 | 0.3 | 37.3 | 12.3 | 274 | 2.81 | 71.6 | 5.1 | 7.8 | 9 | 0.3 | 3.3 | 0.3 | 44 | 0.12 | 0.041 | 17 |
| 1238663 | Soil | 1.5 | 22.1 | 20.3 | 118 | 1.2 | 29.2 | 14.6 | 382 | 3.02 | 36.6 | <0.5 | 4.7 | 14 | 0.5 | 2.0 | 0.3 | 60 | 0.16 | 0.056 | 13 |
| 1238664 | Soil | 1.5 | 36.5 | 27.1 | 78 | 0.3 | 38.4 | 12.0 | 376 | 2.81 | 52.2 | 1.8 | 4.8 | 12 | 0.4 | 2.9 | 0.4 | 47 | 0.16 | 0.051 | 15 |
| 1238665 | Soil | 1.5 | 44.5 | 28.1 | 70 | 0.2 | 39.8 | 12.7 | 314 | 2.84 | 54.9 | 3.8 | 7.4 | 15 | 0.2 | 3.8 | 0.3 | 41 | 0.25 | 0.027 | 19 |
| 1238666 | Soil | 1.1 | 27.5 | 19.8 | 83 | 0.2 | 24.4 | 9.9 | 370 | 2.12 | 114.9 | 47.0 | 5.5 | 25 | 0.5 | 5.1 | 0.2 | 20 | 0.86 | 0.062 | 16 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238637 | Soil | 22 | 0.29 | 196 | 0.024 | <1 | 0.79 | 0.009 | 0.07 | 0.2 | 0.04 | 2.9 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238638 | Soil | 21 | 0.27 | 278 | 0.014 | 2 | 0.93 | 0.006 | 0.05 | 0.3 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238639 | Soil | 20 | 0.25 | 157 | 0.018 | <1 | 1.10 | 0.004 | 0.10 | 0.1 | 0.06 | 3.3 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238640 | Soil | 30 | 0.38 | 322 | 0.036 | <1 | 1.60 | 0.007 | 0.08 | 0.2 | 0.07 | 5.4 | 0.1 | <0.05 | 4 | 0.7 | <1 | <0.2 |
| 1238641 | Soil | 31 | 0.43 | 307 | 0.038 | <1 | 1.46 | 0.006 | 0.07 | 0.2 | 0.05 | 4.9 | <0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1238642 | Soil | 26 | 0.35 | 323 | 0.029 | 1 | 1.19 | 0.010 | 0.06 | 0.2 | 0.04 | 4.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238643 | Soil | 21 | 0.22 | 143 | 0.013 | 2 | 1.16 | 0.004 | 0.06 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238644 | Soil | 26 | 0.31 | 253 | 0.024 | <1 | 1.27 | 0.005 | 0.05 | 0.2 | 0.05 | 4.5 | 0.1 | <0.05 | 4 | 0.7 | <1 | <0.2 |
| 1238645 | Soil | 25 | 0.28 | 218 | 0.017 | <1 | 1.18 | 0.005 | 0.07 | 0.1 | 0.03 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238646 | Soil | 24 | 0.76 | 125 | 0.004 | <1 | 1.52 | 0.003 | 0.10 | <0.1 | 0.03 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238647 | Soil | 16 | 0.27 | 148 | 0.012 | <1 | 0.84 | 0.006 | 0.07 | 0.1 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1238648 | Soil | 22 | 0.25 | 295 | 0.010 | <1 | 1.02 | 0.006 | 0.07 | 0.2 | 0.05 | 3.0 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238649 | Soil | 19 | 0.21 | 214 | 0.010 | <1 | 0.81 | 0.005 | 0.07 | 0.1 | 0.04 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238650 | Soil | 19 | 0.17 | 144 | 0.008 | 2 | 0.81 | 0.006 | 0.06 | 0.1 | 0.03 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238651 | Soil | 22 | 0.29 | 97 | 0.020 | 2 | 0.94 | 0.010 | 0.09 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238652 | Soil | 23 | 0.32 | 184 | 0.019 | <1 | 1.20 | 0.005 | 0.06 | 0.3 | 0.03 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238653 | Soil | 24 | 0.31 | 244 | 0.027 | <1 | 1.31 | 0.011 | 0.07 | 0.4 | 0.04 | 3.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238654 | Soil | 24 | 0.35 | 142 | 0.022 | 1 | 1.06 | 0.015 | 0.09 | 0.9 | 0.03 | 3.2 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238655 | Soil | 25 | 0.35 | 203 | 0.024 | <1 | 1.21 | 0.008 | 0.07 | 0.5 | 0.04 | 3.3 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238656 | Soil | 26 | 0.35 | 178 | 0.021 | 2 | 1.16 | 0.014 | 0.09 | 0.6 | 0.03 | 3.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238657 | Soil | 27 | 0.35 | 202 | 0.026 | <1 | 1.14 | 0.008 | 0.07 | 0.5 | 0.04 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238658 | Soil | 27 | 0.29 | 146 | 0.018 | 1 | 0.94 | 0.008 | 0.09 | 0.4 | 0.05 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238659 | Soil | 24 | 0.29 | 188 | 0.020 | <1 | 1.03 | 0.008 | 0.07 | 0.4 | 0.04 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238660 | Soil | 30 | 0.34 | 143 | 0.023 | 2 | 1.10 | 0.009 | 0.11 | 0.9 | 0.06 | 3.6 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238661 | Soil | 35 | 0.54 | 261 | 0.037 | 2 | 1.81 | 0.009 | 0.07 | 0.5 | 0.05 | 6.3 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238662 | Soil | 33 | 0.52 | 141 | 0.043 | <1 | 1.73 | 0.006 | 0.12 | 1.2 | 0.04 | 4.5 | 0.2 | <0.05 | 5 | 0.8 | <1 | <0.2 |
| 1238663 | Soil | 37 | 0.42 | 294 | 0.030 | 3 | 2.46 | 0.006 | 0.07 | 0.4 | 0.04 | 3.5 | 0.2 | <0.05 | 7 | <0.5 | <1 | <0.2 |
| 1238664 | Soil | 35 | 0.50 | 285 | 0.041 | <1 | 2.05 | 0.008 | 0.11 | 0.7 | 0.03 | 3.6 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238665 | Soil | 32 | 0.42 | 108 | 0.035 | <1 | 1.69 | 0.014 | 0.11 | 0.6 | 0.04 | 4.5 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238666 | Soil | 14 | 0.28 | 79 | 0.021 | <1 | 0.68 | 0.014 | 0.08 | 3.5 | 0.04 | 2.0 | 0.1 | <0.05 | 2 | 0.9 | <1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238667 | Soil | 0.8 | 30.3 | 20.1 | 82 | 0.2 | 34.7 | 12.0 | 378 | 2.26 | 54.5 | 8.3 | 7.2 | 18 | 0.4 | 4.4 | 0.2 | 24 | 0.36 | 0.069 | 23 |
| 1238668 | Soil | 1.2 | 35.2 | 22.3 | 94 | 0.2 | 28.8 | 11.5 | 414 | 2.52 | 83.3 | 6.4 | 7.8 | 25 | 0.5 | 5.6 | 0.3 | 28 | 0.84 | 0.075 | 23 |
| 1238669 | Soil | 1.2 | 42.7 | 26.8 | 115 | 0.3 | 36.9 | 12.7 | 498 | 3.13 | 74.0 | 6.8 | 8.1 | 26 | 0.4 | 6.0 | 0.4 | 37 | 0.59 | 0.069 | 26 |
| 1238670 | Soil | 1.1 | 27.1 | 108.2 | 67 | 0.7 | 22.7 | 8.9 | 159 | 2.94 | 97.6 | 4.1 | 6.1 | 9 | 0.2 | 43.3 | 0.5 | 22 | 0.04 | 0.034 | 42 |
| 1238671 | Soil | 1.1 | 33.9 | 45.4 | 77 | 0.2 | 26.0 | 11.1 | 302 | 3.09 | 57.3 | 1.3 | 11.0 | 13 | 0.2 | 11.7 | 0.5 | 21 | 0.07 | 0.032 | 37 |
| 1238672 | Soil | 1.0 | 33.1 | 53.8 | 70 | 0.3 | 26.7 | 10.5 | 254 | 3.16 | 61.3 | 2.6 | 9.4 | 10 | 0.2 | 17.2 | 0.5 | 25 | 0.06 | 0.031 | 42 |
| 1238673 | Soil | 0.9 | 28.7 | 41.4 | 66 | 0.2 | 23.7 | 9.8 | 261 | 2.85 | 84.6 | 28.0 | 10.4 | 14 | 0.1 | 15.3 | 1.2 | 20 | 0.08 | 0.037 | 35 |
| 1238674 | Soil | 0.8 | 25.3 | 36.7 | 63 | 0.2 | 20.0 | 8.4 | 175 | 2.58 | 64.8 | 5.0 | 9.2 | 9 | 0.2 | 13.6 | 1.1 | 16 | 0.02 | 0.021 | 29 |
| 1238675 | Soil | 0.8 | 32.6 | 52.4 | 80 | 0.2 | 22.7 | 9.7 | 242 | 2.73 | 76.9 | 9.0 | 10.7 | 15 | 0.2 | 13.3 | 1.0 | 19 | 0.11 | 0.029 | 30 |
| 1238676 | Soil | 1.1 | 39.2 | 56.4 | 71 | 0.4 | 27.0 | 12.0 | 264 | 2.92 | 71.1 | 4.1 | 7.8 | 16 | 0.5 | 12.7 | 1.2 | 23 | 0.08 | 0.036 | 41 |
| 1238677 | Soil | 1.0 | 33.0 | 82.7 | 67 | 0.8 | 25.7 | 9.5 | 213 | 2.95 | 47.1 | 4.2 | 3.6 | 11 | 0.2 | 33.2 | 0.7 | 22 | 0.06 | 0.038 | 39 |
| 1238678 | Soil | 0.8 | 30.7 | 101.9 | 78 | 0.8 | 25.5 | 10.3 | 275 | 2.76 | 41.9 | 6.0 | 9.7 | 12 | 0.2 | 60.3 | 0.6 | 20 | 0.07 | 0.030 | 37 |
| 1238679 | Soil | 0.9 | 32.1 | 86.3 | 81 | 0.6 | 26.3 | 11.1 | 348 | 3.05 | 42.8 | 5.8 | 11.0 | 15 | 0.3 | 48.7 | 0.6 | 29 | 0.10 | 0.042 | 38 |
| 1238680 | Soil | 1.2 | 37.9 | 33.3 | 81 | 0.2 | 28.4 | 13.1 | 314 | 3.56 | 18.4 | 5.7 | 15.7 | 16 | 0.4 | 4.5 | 0.4 | 20 | 0.08 | 0.037 | 54 |
| 1238681 | Soil | 1.1 | 25.5 | 36.2 | 79 | 0.3 | 21.4 | 14.1 | 437 | 2.70 | 16.4 | 5.7 | 7.6 | 14 | 0.2 | 5.8 | 0.4 | 23 | 0.15 | 0.042 | 36 |
| 1238682 | Soil | 1.1 | 34.4 | 33.7 | 68 | 0.2 | 23.7 | 9.5 | 190 | 2.81 | 13.5 | 5.1 | 9.6 | 16 | 0.2 | 5.0 | 0.4 | 22 | 0.16 | 0.040 | 48 |
| 1238683 | Soil | 0.9 | 34.5 | 27.9 | 64 | 0.3 | 22.4 | 9.0 | 216 | 2.72 | 10.2 | 3.9 | 9.4 | 16 | 0.1 | 3.8 | 0.4 | 25 | 0.14 | 0.037 | 43 |
| 1238684 | Soil | 1.5 | 35.5 | 27.0 | 84 | 0.1 | 27.0 | 14.4 | 294 | 3.35 | 11.7 | 5.2 | 16.5 | 15 | 0.1 | 3.2 | 0.4 | 22 | 0.09 | 0.036 | 46 |
| 1238685 | Soil | 0.9 | 25.0 | 27.9 | 73 | 0.3 | 20.3 | 9.1 | 216 | 2.78 | 12.3 | 5.1 | 8.1 | 14 | 0.3 | 4.4 | 0.3 | 23 | 0.15 | 0.042 | 38 |
| 1238686 | Soil | 1.2 | 35.6 | 35.7 | 82 | 0.3 | 27.3 | 17.5 | 548 | 3.22 | 14.7 | 4.2 | 8.0 | 14 | 0.5 | 5.0 | 0.3 | 24 | 0.10 | 0.047 | 40 |
| 1238687 | Soil | 1.0 | 30.8 | 29.2 | 80 | 0.2 | 24.1 | 10.7 | 268 | 2.74 | 14.3 | 4.7 | 11.2 | 15 | 0.3 | 5.0 | 0.3 | 26 | 0.14 | 0.042 | 40 |
| 1238688 | Soil | 1.1 | 28.4 | 33.6 | 82 | 0.4 | 24.3 | 9.4 | 231 | 2.68 | 13.8 | 3.9 | 6.7 | 15 | 0.3 | 4.6 | 0.3 | 29 | 0.13 | 0.045 | 36 |
| 1238689 | Soil | 0.9 | 28.6 | 34.0 | 90 | 0.2 | 25.0 | 11.1 | 282 | 2.63 | 17.0 | 6.8 | 8.0 | 17 | 0.4 | 5.9 | 0.4 | 27 | 0.17 | 0.048 | 37 |
| 1238690 | Soil | 1.0 | 36.3 | 44.2 | 87 | 0.3 | 31.9 | 13.4 | 397 | 3.42 | 19.2 | 4.4 | 15.2 | 10 | 0.2 | 8.9 | 0.4 | 18 | 0.06 | 0.030 | 49 |
| 1238691 | Soil | 0.9 | 34.8 | 43.0 | 83 | 0.3 | 31.2 | 11.3 | 282 | 2.96 | 17.0 | 3.6 | 8.4 | 12 | 0.2 | 8.2 | 0.3 | 20 | 0.06 | 0.028 | 54 |
| 1238692 | Soil | 1.1 | 28.2 | 46.3 | 92 | 0.2 | 24.3 | 10.0 | 223 | 2.93 | 20.6 | 3.5 | 14.2 | 10 | 0.1 | 4.7 | 0.3 | 25 | 0.05 | 0.021 | 46 |
| 1238693 | Soil | 1.1 | 17.2 | 63.9 | 102 | 1.0 | 21.9 | 11.5 | 517 | 2.63 | 29.3 | 4.2 | 10.7 | 10 | 0.6 | 8.8 | 0.8 | 21 | 0.07 | 0.027 | 38 |
| 1238694 | Soil | 1.2 | 34.8 | 38.8 | 71 | 0.3 | 27.5 | 12.7 | 295 | 2.88 | 16.8 | 4.0 | 8.5 | 10 | 0.1 | 4.6 | 0.3 | 46 | 0.06 | 0.022 | 27 |
| 1238695 | Soil | 3.4 | 58.0 | 24.7 | 103 | 0.3 | 50.4 | 19.6 | 1216 | 3.89 | 248.0 | 57.0 | 14.1 | 62 | 0.6 | 33.5 | 0.4 | 26 | 1.03 | 0.061 | 39 |
| 1238696 | Soil | 0.8 | 35.5 | 18.0 | 89 | 0.2 | 32.0 | 11.9 | 420 | 2.52 | 30.1 | 7.4 | 6.4 | 30 | 0.3 | 3.4 | 0.2 | 38 | 0.90 | 0.064 | 20 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238667 | Soil | 18 | 0.34 | 103 | 0.025 | <1 | 0.89 | 0.011 | 0.09 | 2.0 | 0.05 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238668 | Soil | 21 | 0.40 | 110 | 0.029 | <1 | 1.00 | 0.015 | 0.14 | 1.7 | 0.05 | 2.8 | 0.2 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238669 | Soil | 29 | 0.57 | 146 | 0.031 | <1 | 1.39 | 0.017 | 0.14 | 1.5 | 0.05 | 3.7 | 0.2 | <0.05 | 4 | 1.2 | <1 | <0.2 |
| 1238670 | Soil | 17 | 0.19 | 93 | 0.007 | 1 | 0.83 | 0.003 | 0.05 | 0.1 | 0.04 | 1.6 | 0.1 | <0.05 | 3 | 0.6 | 4 | <0.2 |
| 1238671 | Soil | 19 | 0.28 | 124 | 0.010 | <1 | 0.94 | 0.004 | 0.08 | <0.1 | 0.09 | 2.3 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238672 | Soil | 21 | 0.29 | 135 | 0.008 | <1 | 1.13 | 0.004 | 0.06 | 0.1 | 0.06 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238673 | Soil | 18 | 0.30 | 97 | 0.013 | 2 | 0.78 | 0.005 | 0.05 | 0.1 | 0.07 | 1.8 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238674 | Soil | 15 | 0.22 | 54 | 0.008 | <1 | 0.64 | 0.002 | 0.06 | 0.2 | 0.06 | 1.6 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238675 | Soil | 16 | 0.24 | 89 | 0.009 | <1 | 0.64 | 0.003 | 0.07 | 0.1 | 0.12 | 2.0 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238676 | Soil | 18 | 0.25 | 178 | 0.006 | <1 | 0.89 | 0.004 | 0.07 | 0.2 | 0.07 | 2.1 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238677 | Soil | 18 | 0.30 | 132 | 0.005 | 1 | 0.98 | 0.004 | 0.05 | 0.2 | 0.03 | 1.4 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238678 | Soil | 17 | 0.30 | 104 | 0.011 | <1 | 0.80 | 0.004 | 0.05 | 0.1 | 0.06 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238679 | Soil | 22 | 0.30 | 121 | 0.019 | <1 | 0.96 | 0.005 | 0.07 | 0.2 | 0.08 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238680 | Soil | 20 | 0.39 | 101 | 0.005 | 1 | 1.00 | 0.007 | 0.03 | <0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238681 | Soil | 18 | 0.35 | 164 | 0.010 | 1 | 0.95 | 0.005 | 0.04 | <0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238682 | Soil | 19 | 0.38 | 121 | 0.005 | 1 | 0.98 | 0.005 | 0.04 | 0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238683 | Soil | 21 | 0.44 | 144 | 0.006 | 1 | 1.14 | 0.005 | 0.04 | 0.1 | 0.02 | 1.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238684 | Soil | 22 | 0.54 | 102 | 0.007 | <1 | 1.18 | 0.005 | 0.04 | <0.1 | <0.01 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238685 | Soil | 18 | 0.39 | 123 | 0.007 | <1 | 1.00 | 0.004 | 0.04 | 0.1 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238686 | Soil | 21 | 0.42 | 169 | 0.008 | 1 | 1.14 | 0.005 | 0.05 | <0.1 | 0.03 | 1.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238687 | Soil | 20 | 0.40 | 203 | 0.013 | 1 | 1.06 | 0.006 | 0.04 | 0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238688 | Soil | 20 | 0.37 | 201 | 0.011 | <1 | 1.11 | 0.006 | 0.04 | 0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238689 | Soil | 20 | 0.38 | 183 | 0.013 | 2 | 1.00 | 0.008 | 0.04 | 0.1 | 0.03 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238690 | Soil | 18 | 0.36 | 117 | 0.005 | <1 | 0.94 | 0.003 | 0.04 | <0.1 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238691 | Soil | 17 | 0.30 | 80 | 0.006 | <1 | 0.94 | 0.004 | 0.04 | <0.1 | 0.01 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238692 | Soil | 19 | 0.35 | 87 | 0.011 | <1 | 1.09 | 0.006 | 0.03 | <0.1 | 0.02 | 1.8 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238693 | Soil | 15 | 0.17 | 86 | 0.005 | <1 | 0.82 | 0.006 | 0.04 | <0.1 | 0.04 | 1.6 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238694 | Soil | 29 | 0.40 | 166 | 0.036 | 2 | 1.50 | 0.006 | 0.05 | 0.2 | 0.04 | 4.6 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238695 | Soil | 21 | 0.56 | 189 | 0.011 | 2 | 1.02 | 0.018 | 0.11 | 0.2 | 0.04 | 4.0 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238696 | Soil | 24 | 0.69 | 268 | 0.026 | 2 | 1.12 | 0.012 | 0.09 | 0.2 | 0.06 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238697 | Soil | 0.8 | 54.0 | 41.4 | 97 | 0.3 | 40.7 | 17.8 | 436 | 4.70 | 738.1 | 172.6 | 17.9 | 23 | 0.2 | 207.2 | 0.5 | 17 | 0.13 | 0.033 | 49 |
| 1238698 | Soil | 1.5 | 42.3 | 22.4 | 106 | 0.3 | 38.1 | 13.2 | 511 | 3.17 | 43.9 | 9.0 | 6.4 | 28 | 0.5 | 18.1 | 0.3 | 42 | 0.53 | 0.068 | 22 |
| 1238699 | Soil | 1.2 | 35.7 | 29.0 | 78 | 0.2 | 33.4 | 11.4 | 465 | 2.65 | 32.5 | 6.1 | 9.5 | 32 | 0.3 | 6.3 | 0.4 | 28 | 0.46 | 0.050 | 29 |
| 1238700 | Soil | 3.8 | 50.0 | 27.6 | 95 | 0.3 | 44.9 | 16.2 | 346 | 4.14 | 317.3 | 95.6 | 21.2 | 40 | <0.1 | 42.7 | 0.4 | 13 | 0.40 | 0.054 | 65 |
| 1238701 | Soil | 2.2 | 18.1 | 31.1 | 48 | 0.3 | 25.2 | 9.1 | 331 | 2.58 | 659.2 | 51.9 | 5.3 | 33 | 0.2 | 782.3 | 0.2 | 32 | 0.40 | 0.022 | 19 |
| 1238702 | Soil | 1.1 | 51.1 | 25.3 | 101 | 0.4 | 47.4 | 22.4 | 859 | 3.89 | 425.4 | 110.5 | 16.9 | 146 | 0.2 | 51.1 | 0.3 | 7 | 1.99 | 0.047 | 47 |
| 1238703 | Soil | 1.3 | 37.0 | 21.9 | 69 | 0.3 | 31.3 | 10.2 | 325 | 2.52 | 20.8 | 5.2 | 7.3 | 34 | 0.3 | 5.0 | 0.3 | 31 | 0.53 | 0.049 | 27 |
| 1238704 | Soil | 0.9 | 36.2 | 29.5 | 81 | 0.3 | 32.3 | 13.2 | 577 | 2.95 | 43.6 | 6.2 | 9.0 | 38 | 0.4 | 7.7 | 0.4 | 28 | 0.57 | 0.059 | 28 |
| 1238705 | Soil | 1.1 | 35.9 | 26.2 | 77 | 0.3 | 29.5 | 11.3 | 563 | 2.95 | 34.9 | 6.3 | 7.9 | 81 | 0.4 | 5.4 | 0.4 | 31 | 0.57 | 0.059 | 25 |
| 1238706 | Soil | 1.0 | 34.6 | 23.7 | 67 | 0.2 | 32.8 | 11.7 | 506 | 2.49 | 22.8 | 7.6 | 8.1 | 87 | 0.2 | 4.1 | 0.3 | 27 | 0.46 | 0.048 | 27 |
| 1238707 | Soil | 0.6 | 27.1 | 15.6 | 51 | 0.1 | 28.1 | 11.2 | 294 | 2.29 | 10.3 | 4.4 | 6.4 | 68 | <0.1 | 2.5 | 0.2 | 29 | 0.41 | 0.049 | 26 |
| 1238708 | Soil | 1.2 | 45.3 | 18.7 | 103 | 0.3 | 36.8 | 11.9 | 566 | 2.96 | 20.6 | 2.3 | 5.7 | 41 | 0.6 | 1.6 | 0.5 | 39 | 1.26 | 0.062 | 17 |
| 1238709 | Soil | 1.3 | 44.7 | 24.5 | 102 | 0.3 | 37.1 | 13.5 | 690 | 3.01 | 29.3 | 5.6 | 5.8 | 51 | 0.4 | 5.9 | 0.4 | 32 | 1.06 | 0.075 | 19 |
| 1238710 | Soil | 1.7 | 37.1 | 21.5 | 93 | 0.2 | 34.8 | 12.0 | 438 | 2.99 | 34.1 | 14.6 | 6.8 | 29 | 0.4 | 2.6 | 0.3 | 37 | 0.55 | 0.077 | 19 |
| 1238711 | Soil | 1.0 | 34.9 | 29.9 | 87 | 0.2 | 31.3 | 13.0 | 552 | 3.14 | 65.6 | 6.0 | 10.7 | 29 | 0.3 | 6.7 | 0.5 | 28 | 0.30 | 0.062 | 28 |
| 1238801 | Soil | 1.2 | 26.1 | 21.4 | 51 | 0.1 | 18.6 | 7.1 | 118 | 2.60 | 7.8 | 4.0 | 11.3 | 5 | 0.1 | 2.6 | 0.3 | 25 | 0.02 | 0.020 | 37 |
| 1238802 | Soil | 0.9 | 23.3 | 16.9 | 69 | <0.1 | 24.5 | 10.8 | 257 | 2.79 | 11.5 | 3.0 | 8.1 | 8 | 0.2 | 1.7 | 0.2 | 35 | 0.04 | 0.020 | 20 |
| 1238803 | Soil | 1.3 | 22.1 | 16.9 | 56 | 0.1 | 20.7 | 9.7 | 252 | 3.02 | 11.9 | 2.7 | 8.4 | 8 | <0.1 | 1.1 | 0.3 | 46 | 0.04 | 0.021 | 23 |
| 1238804 | Soil | 1.4 | 36.2 | 23.0 | 72 | 0.1 | 27.2 | 11.1 | 237 | 3.01 | 10.2 | 4.5 | 9.8 | 9 | 0.2 | 3.1 | 0.3 | 44 | 0.05 | 0.026 | 31 |
| 1238805 | Soil | 1.0 | 19.4 | 17.3 | 47 | 0.2 | 18.5 | 8.0 | 199 | 2.72 | 9.0 | 1.2 | 8.5 | 8 | <0.1 | 1.1 | 0.2 | 44 | 0.04 | 0.021 | 26 |
| 1238806 | Soil | 0.9 | 30.7 | 19.2 | 58 | 0.1 | 24.3 | 11.2 | 282 | 3.02 | 9.0 | 2.2 | 10.3 | 7 | <0.1 | 1.6 | 0.2 | 36 | 0.04 | 0.020 | 32 |
| 1238807 | Soil | 1.1 | 19.7 | 31.1 | 50 | 0.1 | 17.4 | 7.0 | 149 | 2.58 | 10.8 | 2.1 | 4.0 | 9 | 0.2 | 4.5 | 0.2 | 40 | 0.06 | 0.023 | 27 |
| 1238808 | Soil | 1.0 | 23.2 | 20.0 | 44 | 0.1 | 18.7 | 8.0 | 210 | 2.39 | 9.4 | 1.2 | 7.4 | 9 | 0.1 | 2.6 | 0.2 | 31 | 0.05 | 0.024 | 33 |
| 1238809 | Soil | 0.9 | 26.6 | 18.0 | 49 | <0.1 | 26.7 | 8.4 | 233 | 2.46 | 7.9 | 7.8 | 7.3 | 8 | <0.1 | 2.2 | 0.2 | 38 | 0.06 | 0.035 | 36 |
| 1238810 | Soil | 1.0 | 28.9 | 13.3 | 67 | 0.1 | 29.5 | 11.4 | 288 | 2.66 | 13.7 | 4.3 | 5.8 | 12 | 0.1 | 1.3 | 0.2 | 43 | 0.10 | 0.037 | 19 |
| 1238811 | Soil | 0.7 | 25.8 | 23.2 | 81 | <0.1 | 36.2 | 11.3 | 198 | 2.79 | 11.1 | 4.1 | 7.4 | 9 | 0.3 | 8.6 | 0.2 | 34 | 0.07 | 0.035 | 34 |
| 1238812 | Soil | 1.0 | 4.6 | 18.1 | 23 | 0.2 | 7.0 | 2.8 | 82 | 1.91 | 9.1 | <0.5 | 3.4 | 10 | <0.1 | 1.5 | 0.2 | 49 | 0.07 | 0.022 | 14 |
| 1238813 | Soil | 1.0 | 23.7 | 24.7 | 61 | 0.2 | 25.4 | 7.6 | 195 | 2.56 | 11.6 | 3.1 | 6.5 | 13 | 0.2 | 3.8 | 0.2 | 42 | 0.06 | 0.026 | 21 |
| 1238814 | Soil | 0.9 | 15.7 | 22.7 | 47 | 0.2 | 14.5 | 5.3 | 153 | 1.97 | 10.8 | 8.6 | 3.5 | 9 | 0.2 | 2.5 | 0.2 | 35 | 0.07 | 0.021 | 13 |
| 1238815 | Soil | 1.1 | 19.2 | 21.3 | 56 | 0.2 | 17.3 | 7.0 | 208 | 2.52 | 13.4 | 2.7 | 5.3 | 13 | <0.1 | 2.5 | 0.2 | 46 | 0.10 | 0.027 | 16 |

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# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238697 | Soil | 16 | 0.45 | 113 | 0.002 | 2 | 1.01 | 0.004 | 0.10 | 0.1 | 0.04 | 3.1 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238698 | Soil | 30 | 0.55 | 296 | 0.016 | 3 | 1.35 | 0.009 | 0.11 | 0.2 | 0.06 | 3.5 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238699 | Soil | 26 | 0.40 | 193 | 0.015 | 2 | 1.04 | 0.007 | 0.07 | 0.4 | 0.06 | 2.7 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238700 | Soil | 10 | 0.16 | 93 | 0.002 | 1 | 0.57 | 0.004 | 0.11 | <0.1 | 0.04 | 2.8 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238701 | Soil | 25 | 0.26 | 121 | 0.006 | 2 | 1.03 | 0.005 | 0.08 | 0.1 | 0.02 | 3.0 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238702 | Soil | 5 | 0.60 | 82 | 0.002 | 4 | 0.35 | 0.010 | 0.13 | <0.1 | 0.07 | 3.1 | 0.1 | 0.14 | <1 | <0.5 | 1 | <0.2 |
| 1238703 | Soil | 23 | 0.38 | 246 | 0.014 | 1 | 1.06 | 0.007 | 0.07 | 0.2 | 0.06 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238704 | Soil | 24 | 0.41 | 186 | 0.016 | 3 | 1.03 | 0.007 | 0.08 | 0.4 | 0.08 | 2.7 | 0.1 | <0.05 | 3 | 0.5 | 2 | <0.2 |
| 1238705 | Soil | 23 | 0.44 | 231 | 0.015 | 2 | 1.08 | 0.007 | 0.09 | 0.3 | 0.11 | 3.0 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238706 | Soil | 22 | 0.38 | 236 | 0.015 | 2 | 0.98 | 0.008 | 0.08 | 0.4 | 0.05 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238707 | Soil | 21 | 0.39 | 240 | 0.008 | 1 | 1.02 | 0.006 | 0.05 | 0.2 | 0.05 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238708 | Soil | 28 | 0.82 | 352 | 0.017 | 4 | 1.22 | 0.008 | 0.12 | 0.2 | 0.08 | 3.2 | 0.1 | <0.05 | 4 | 1.6 | <1 | <0.2 |
| 1238709 | Soil | 25 | 0.59 | 291 | 0.020 | 4 | 1.16 | 0.010 | 0.08 | 0.4 | 0.07 | 3.5 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238710 | Soil | 27 | 0.58 | 286 | 0.027 | 3 | 1.14 | 0.010 | 0.09 | 0.4 | 0.05 | 3.6 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238711 | Soil | 26 | 0.43 | 183 | 0.021 | 2 | 1.03 | 0.010 | 0.12 | 0.8 | 0.07 | 3.0 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238801 | Soil | 17 | 0.15 | 87 | 0.009 | 1 | 0.83 | 0.003 | 0.04 | 0.3 | 0.09 | 2.0 | 0.5 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238802 | Soil | 24 | 0.34 | 126 | 0.027 | 2 | 1.24 | 0.008 | 0.05 | 0.3 | 0.03 | 3.7 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238803 | Soil | 31 | 0.44 | 157 | 0.028 | 1 | 1.75 | 0.011 | 0.04 | 0.2 | 0.04 | 4.6 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238804 | Soil | 29 | 0.32 | 126 | 0.030 | 2 | 1.26 | 0.006 | 0.05 | 0.3 | 0.10 | 5.2 | 0.5 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238805 | Soil | 26 | 0.35 | 125 | 0.017 | 1 | 1.53 | 0.005 | 0.04 | 0.2 | 0.02 | 3.2 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238806 | Soil | 24 | 0.29 | 119 | 0.017 | <1 | 1.21 | 0.005 | 0.04 | 0.3 | 0.08 | 4.4 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238807 | Soil | 23 | 0.26 | 114 | 0.016 | <1 | 1.18 | 0.004 | 0.05 | 0.3 | 0.02 | 2.1 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238808 | Soil | 21 | 0.22 | 146 | 0.029 | <1 | 1.00 | 0.004 | 0.05 | 0.4 | 0.02 | 2.7 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238809 | Soil | 43 | 0.31 | 114 | 0.013 | <1 | 0.99 | 0.008 | 0.05 | 0.3 | 0.03 | 3.8 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238810 | Soil | 33 | 0.45 | 256 | 0.032 | 2 | 1.47 | 0.007 | 0.05 | 0.3 | 0.05 | 5.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238811 | Soil | 52 | 0.38 | 169 | 0.015 | 1 | 1.33 | 0.003 | 0.05 | 0.2 | 0.03 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238812 | Soil | 16 | 0.15 | 150 | 0.019 | <1 | 1.22 | 0.003 | 0.02 | 0.2 | 0.03 | 1.6 | 0.1 | <0.05 | 6 | <0.5 | <1 | <0.2 |
| 1238813 | Soil | 34 | 0.30 | 132 | 0.020 | <1 | 1.19 | 0.005 | 0.06 | 0.7 | 0.03 | 3.3 | 0.3 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238814 | Soil | 20 | 0.28 | 148 | 0.019 | <1 | 1.05 | 0.004 | 0.04 | 0.3 | 0.02 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238815 | Soil | 29 | 0.37 | 207 | 0.029 | <1 | 1.39 | 0.006 | 0.05 | 0.3 | 0.03 | 4.0 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238816 | Soil | 0.9 | 21.0 | 13.6 | 53 | <0.1 | 17.3 | 8.2 | 258 | 2.44 | 12.6 | 2.1 | 6.3 | 8 | 0.2 | 1.1 | 0.2 | 38 | 0.06 | 0.018 | 19 |
| 1238817 | Soil | 0.8 | 17.2 | 18.7 | 40 | 0.3 | 13.0 | 5.1 | 140 | 2.19 | 10.4 | 2.3 | 6.4 | 7 | <0.1 | 1.6 | 0.2 | 37 | 0.05 | 0.019 | 19 |
| 1238818 | Soil | 1.1 | 27.1 | 39.7 | 64 | 0.2 | 18.9 | 9.2 | 276 | 2.65 | 15.7 | 2.6 | 9.5 | 9 | 0.3 | 4.0 | 0.3 | 36 | 0.05 | 0.021 | 27 |
| 1238819 | Soil | 0.9 | 27.0 | 24.3 | 62 | 0.2 | 21.2 | 9.0 | 241 | 2.57 | 10.8 | 2.5 | 8.6 | 8 | 0.2 | 3.5 | 0.2 | 32 | 0.05 | 0.019 | 25 |
| 1238820 | Soil | 0.8 | 25.9 | 20.0 | 57 | <0.1 | 19.2 | 8.2 | 258 | 2.34 | 12.8 | 3.6 | 6.7 | 10 | 0.1 | 3.9 | 0.2 | 30 | 0.08 | 0.026 | 21 |
| 1238821 | Soil | 0.8 | 32.7 | 32.1 | 77 | 0.1 | 28.4 | 11.7 | 406 | 2.81 | 16.5 | 3.3 | 9.5 | 10 | 0.3 | 7.0 | 0.3 | 24 | 0.07 | 0.032 | 32 |
| 1238822 | Soil | 0.8 | 27.9 | 30.7 | 65 | 0.1 | 21.0 | 8.7 | 241 | 2.66 | 15.2 | 2.3 | 8.9 | 7 | 0.3 | 7.1 | 0.2 | 27 | 0.04 | 0.024 | 26 |
| 1238823 | Soil | 0.8 | 25.1 | 24.7 | 64 | <0.1 | 21.7 | 8.8 | 281 | 2.44 | 14.7 | 4.0 | 8.7 | 7 | 0.3 | 6.0 | 0.2 | 25 | 0.05 | 0.026 | 27 |
| 1238824 | Soil | 0.8 | 21.2 | 18.9 | 53 | <0.1 | 19.0 | 7.4 | 254 | 2.24 | 11.7 | 2.9 | 6.9 | 14 | 0.1 | 4.3 | 0.2 | 31 | 0.11 | 0.022 | 23 |
| 1238825 | Soil | 0.9 | 15.9 | 15.6 | 46 | 0.1 | 14.8 | 6.0 | 165 | 2.05 | 11.3 | 4.8 | 4.4 | 12 | 0.2 | 2.0 | 0.2 | 35 | 0.11 | 0.035 | 17 |
| 1238826 | Soil | 0.8 | 22.9 | 12.3 | 50 | <0.1 | 17.3 | 6.5 | 234 | 2.04 | 11.6 | 3.7 | 4.7 | 16 | <0.1 | 2.0 | 0.1 | 30 | 0.18 | 0.052 | 18 |
| 1238827 | Soil | 1.1 | 16.9 | 18.0 | 52 | 0.1 | 16.6 | 7.6 | 252 | 2.26 | 16.2 | 3.8 | 4.4 | 10 | 0.2 | 2.6 | 0.2 | 37 | 0.08 | 0.040 | 18 |
| 1238828 | Soil | 0.6 | 21.9 | 9.2 | 49 | <0.1 | 20.9 | 13.1 | 416 | 1.88 | 16.5 | 4.7 | 5.2 | 10 | 0.2 | 1.1 | 0.1 | 26 | 0.12 | 0.060 | 12 |
| 1238829 | Soil | 1.1 | 35.0 | 26.9 | 68 | <0.1 | 24.3 | 9.6 | 239 | 2.76 | 35.0 | 13.6 | 9.4 | 9 | 0.2 | 5.8 | 0.5 | 36 | 0.05 | 0.020 | 20 |
| 1238830 | Soil | 1.0 | 24.9 | 17.8 | 62 | <0.1 | 19.4 | 8.4 | 249 | 2.45 | 24.7 | 2.9 | 6.6 | 10 | 0.2 | 2.9 | 0.3 | 39 | 0.07 | 0.025 | 18 |
| 1238831 | Soil | 1.0 | 15.1 | 20.8 | 53 | 0.1 | 15.2 | 6.9 | 547 | 2.21 | 49.6 | 8.2 | 4.6 | 17 | 0.2 | 3.9 | 0.4 | 34 | 0.15 | 0.046 | 19 |
| 1238832 | Soil | 1.2 | 39.9 | 31.7 | 88 | 0.2 | 27.3 | 10.9 | 427 | 2.67 | 86.1 | 100.4 | 7.4 | 17 | 0.4 | 7.0 | 0.5 | 30 | 0.21 | 0.058 | 25 |
| 1238833 | Soil | 0.6 | 20.6 | 31.7 | 80 | 0.2 | 22.1 | 9.9 | 259 | 1.83 | 16.8 | 5.5 | 5.4 | 27 | 0.4 | 7.5 | 0.2 | 20 | 0.32 | 0.058 | 25 |
| 1238834 | Soil | 1.4 | 62.3 | 16.2 | 66 | 0.2 | 27.8 | 12.4 | 432 | 3.68 | 8.5 | 1.5 | 5.5 | 28 | <0.1 | 0.5 | 0.2 | 79 | 0.13 | 0.070 | 18 |
| 1238835 | Soil | 1.0 | 24.7 | 11.4 | 52 | 0.1 | 19.5 | 9.0 | 251 | 2.65 | 11.3 | 3.6 | 3.7 | 16 | <0.1 | 0.6 | 0.2 | 58 | 0.14 | 0.030 | 13 |
| 1238837 | Soil | 1.5 | 39.6 | 12.9 | 64 | <0.1 | 24.9 | 13.2 | 416 | 3.25 | 10.1 | 3.8 | 5.0 | 29 | 0.1 | 0.6 | 0.2 | 93 | 0.37 | 0.028 | 24 |
| 1238838 | Soil | 1.1 | 25.1 | 12.6 | 69 | 0.1 | 24.8 | 12.2 | 336 | 2.88 | 10.9 | 1.8 | 4.9 | 16 | 0.1 | 0.5 | 0.2 | 65 | 0.16 | 0.029 | 21 |
| 1238839 | Soil | 1.3 | 44.1 | 14.7 | 68 | 0.1 | 43.0 | 14.8 | 348 | 3.96 | 9.2 | 2.1 | 8.0 | 21 | <0.1 | 1.1 | 0.2 | 74 | 0.24 | 0.044 | 18 |
| 1238840 | Soil | 1.5 | 41.9 | 21.6 | 80 | 0.1 | 35.7 | 11.1 | 308 | 2.78 | 12.4 | 3.2 | 6.2 | 27 | 0.2 | 1.2 | 0.2 | 44 | 0.31 | 0.062 | 26 |
| 1238841 | Soil | 1.3 | 45.2 | 24.7 | 85 | 0.1 | 44.8 | 15.0 | 431 | 3.16 | 13.6 | 2.8 | 8.9 | 26 | 0.2 | 1.9 | 0.3 | 47 | 0.29 | 0.056 | 35 |
| 1238842 | Soil | 1.4 | 38.5 | 20.5 | 75 | 0.1 | 42.4 | 14.3 | 404 | 3.20 | 10.6 | 6.3 | 8.1 | 26 | 0.2 | 1.5 | 0.2 | 54 | 0.31 | 0.053 | 35 |
| 1238843 | Soil | 1.1 | 37.1 | 19.6 | 104 | 0.2 | 38.2 | 12.7 | 411 | 3.01 | 12.6 | 5.4 | 6.0 | 38 | 0.5 | 1.6 | 0.2 | 47 | 0.44 | 0.052 | 29 |
| 1238844 | Soil | 1.0 | 28.4 | 17.2 | 68 | <0.1 | 32.6 | 14.6 | 425 | 3.13 | 12.9 | 2.1 | 8.5 | 23 | 0.2 | 1.1 | 0.2 | 41 | 0.21 | 0.036 | 26 |
| 1238845 | Soil | 1.0 | 34.6 | 17.5 | 74 | <0.1 | 37.6 | 12.9 | 604 | 2.90 | 12.9 | 2.7 | 4.3 | 87 | 0.2 | 1.1 | 0.2 | 42 | 0.66 | 0.049 | 23 |
| 1238846 | Soil | 1.3 | 56.3 | 19.6 | 63 | 0.2 | 38.7 | 19.3 | 925 | 3.18 | 8.5 | 2.7 | 4.7 | 125 | 0.2 | 1.2 | 0.2 | 68 | 0.84 | 0.071 | 26 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238816 | Soil | 24 | 0.32 | 168 | 0.031 | <1 | 1.24 | 0.008 | 0.05 | 0.3 | 0.04 | 4.5 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238817 | Soil | 21 | 0.23 | 113 | 0.017 | <1 | 1.18 | 0.004 | 0.05 | 0.3 | 0.03 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238818 | Soil | 23 | 0.29 | 165 | 0.027 | <1 | 1.24 | 0.006 | 0.09 | 0.5 | 0.07 | 4.3 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238819 | Soil | 21 | 0.28 | 146 | 0.021 | <1 | 1.10 | 0.006 | 0.08 | 0.5 | 0.03 | 2.9 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238820 | Soil | 20 | 0.29 | 204 | 0.024 | <1 | 0.96 | 0.006 | 0.06 | 0.4 | 0.04 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238821 | Soil | 18 | 0.23 | 169 | 0.015 | 1 | 0.85 | 0.004 | 0.09 | 0.8 | 0.06 | 2.9 | 0.2 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238822 | Soil | 20 | 0.24 | 106 | 0.013 | <1 | 0.97 | 0.004 | 0.07 | 0.6 | 0.04 | 2.6 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238823 | Soil | 18 | 0.22 | 108 | 0.016 | <1 | 0.84 | 0.005 | 0.08 | 0.5 | 0.03 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238824 | Soil | 20 | 0.29 | 283 | 0.023 | <1 | 1.03 | 0.006 | 0.06 | 0.4 | 0.03 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238825 | Soil | 21 | 0.29 | 188 | 0.021 | <1 | 1.07 | 0.005 | 0.05 | 0.4 | 0.02 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238826 | Soil | 19 | 0.29 | 299 | 0.024 | <1 | 0.97 | 0.006 | 0.04 | 0.4 | 0.04 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238827 | Soil | 23 | 0.29 | 173 | 0.021 | <1 | 1.14 | 0.006 | 0.05 | 0.3 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238828 | Soil | 16 | 0.27 | 97 | 0.026 | <1 | 0.91 | 0.004 | 0.03 | 0.3 | 0.02 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238829 | Soil | 24 | 0.31 | 129 | 0.022 | <1 | 1.30 | 0.004 | 0.05 | 0.2 | 0.06 | 3.2 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238830 | Soil | 25 | 0.32 | 185 | 0.032 | <1 | 1.13 | 0.005 | 0.05 | 0.3 | 0.06 | 4.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238831 | Soil | 17 | 0.23 | 163 | 0.015 | <1 | 0.88 | 0.004 | 0.07 | 0.6 | 0.02 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238832 | Soil | 21 | 0.38 | 224 | 0.030 | <1 | 1.08 | 0.010 | 0.07 | 0.9 | 0.06 | 3.5 | 0.1 | <0.05 | 3 | <0.5 | 6 | <0.2 |
| 1238833 | Soil | 16 | 0.29 | 148 | 0.017 | <1 | 0.79 | 0.005 | 0.03 | 0.3 | 0.04 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238834 | Soil | 50 | 0.73 | 148 | 0.077 | 1 | 1.65 | 0.005 | 0.13 | 0.1 | 0.01 | 3.4 | 0.1 | <0.05 | 6 | 0.6 | <1 | <0.2 |
| 1238835 | Soil | 30 | 0.38 | 233 | 0.036 | 1 | 1.40 | 0.006 | 0.05 | 0.3 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238837 | Soil | 39 | 0.55 | 333 | 0.061 | <1 | 1.57 | 0.007 | 0.06 | 0.2 | 0.04 | 5.9 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238838 | Soil | 37 | 0.43 | 297 | 0.049 | <1 | 1.58 | 0.017 | 0.06 | 0.2 | 0.03 | 5.2 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238839 | Soil | 66 | 0.80 | 139 | 0.034 | <1 | 1.58 | 0.004 | 0.08 | <0.1 | 0.02 | 3.9 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238840 | Soil | 36 | 0.45 | 402 | 0.039 | 2 | 1.17 | 0.007 | 0.05 | 0.2 | 0.05 | 3.6 | <0.1 | <0.05 | 4 | 0.6 | 10 | <0.2 |
| 1238841 | Soil | 53 | 0.60 | 206 | 0.032 | 2 | 1.26 | 0.006 | 0.09 | 0.2 | 0.06 | 4.4 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238842 | Soil | 61 | 0.65 | 220 | 0.030 | <1 | 1.34 | 0.006 | 0.06 | 0.1 | 0.05 | 4.2 | <0.1 | <0.05 | 4 | <0.5 | 4 | <0.2 |
| 1238843 | Soil | 50 | 0.57 | 218 | 0.021 | <1 | 1.30 | 0.005 | 0.08 | 0.2 | 0.08 | 3.9 | <0.1 | <0.05 | 4 | 0.7 | 3 | <0.2 |
| 1238844 | Soil | 41 | 0.45 | 152 | 0.020 | <1 | 1.28 | 0.005 | 0.06 | 0.2 | 0.03 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238845 | Soil | 48 | 0.48 | 284 | 0.019 | <1 | 1.31 | 0.006 | 0.07 | 0.2 | 0.06 | 3.4 | <0.1 | <0.05 | 4 | 1.1 | <1 | <0.2 |
| 1238846 | Soil | 34 | 0.61 | 325 | 0.031 | <1 | 1.23 | 0.005 | 0.08 | 0.1 | 0.06 | 4.0 | <0.1 | <0.05 | 4 | 1.8 | 7 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238847 | Soil | 1.0 | 30.2 | 12.2 | 53 | 0.1 | 23.7 | 10.1 | 266 | 2.22 | 6.7 | 4.2 | 4.7 | 73 | 0.1 | 0.9 | 0.2 | 44 | 0.54 | 0.046 | 19 |
| 1238848 | Soil | 1.0 | 25.6 | 16.4 | 51 | 0.2 | 28.2 | 12.9 | 320 | 2.86 | 10.4 | 3.3 | 3.9 | 99 | 0.2 | 0.8 | 0.2 | 41 | 0.87 | 0.050 | 19 |
| 1238849 | Soil | 1.2 | 35.9 | 16.7 | 82 | 0.2 | 32.0 | 12.1 | 332 | 2.82 | 15.2 | 3.9 | 4.3 | 28 | 0.3 | 1.3 | 0.2 | 46 | 0.40 | 0.057 | 26 |
| 1238850 | Soil | 0.9 | 26.5 | 19.6 | 73 | 0.2 | 25.0 | 9.1 | 264 | 2.68 | 19.7 | 3.2 | 5.1 | 23 | 0.2 | 1.9 | 0.2 | 32 | 0.35 | 0.044 | 21 |
| 1238851 | Soil | 1.1 | 34.8 | 16.8 | 63 | 0.2 | 28.1 | 10.0 | 326 | 2.64 | 15.5 | 4.3 | 6.0 | 26 | 0.1 | 2.1 | 0.2 | 36 | 0.36 | 0.058 | 23 |
| 1238852 | Soil | 1.2 | 54.8 | 26.1 | 75 | 0.2 | 40.1 | 14.3 | 590 | 3.29 | 24.9 | 7.3 | 6.4 | 37 | 0.2 | 3.0 | 0.3 | 35 | 0.45 | 0.053 | 40 |
| 1238853 | Soil | 0.8 | 18.1 | 11.4 | 47 | 0.1 | 16.9 | 7.2 | 275 | 2.09 | 14.4 | 4.1 | 2.6 | 37 | 0.1 | 0.9 | 0.2 | 35 | 0.44 | 0.045 | 13 |
| 1238854 | Soil | 0.9 | 25.8 | 9.7 | 53 | <0.1 | 21.5 | 6.6 | 178 | 2.01 | 19.2 | 10.5 | 4.6 | 21 | <0.1 | 1.0 | 0.1 | 40 | 0.30 | 0.046 | 14 |
| 1238855 | Soil | 0.9 | 17.1 | 10.2 | 47 | <0.1 | 17.3 | 8.2 | 277 | 1.98 | 13.3 | 2.7 | 3.2 | 26 | <0.1 | 1.0 | 0.1 | 36 | 0.37 | 0.056 | 15 |
| 1238856 | Soil | 1.6 | 23.2 | 15.4 | 75 | 0.1 | 28.9 | 10.2 | 227 | 2.69 | 38.3 | 1.4 | 4.1 | 11 | 0.3 | 2.0 | 0.2 | 48 | 0.16 | 0.036 | 11 |
| 1238857 | Soil | 1.3 | 28.3 | 14.9 | 58 | <0.1 | 26.9 | 8.9 | 148 | 2.33 | 44.8 | 3.0 | 4.6 | 10 | <0.1 | 2.3 | 0.2 | 36 | 0.14 | 0.012 | 14 |
| 1238858 | Soil | 0.5 | 20.3 | 12.1 | 52 | <0.1 | 20.5 | 8.3 | 203 | 1.93 | 45.8 | 20.8 | 5.6 | 8 | <0.1 | 2.6 | 0.2 | 21 | 0.11 | 0.041 | 20 |
| 1238859 | Soil | 0.8 | 23.8 | 18.5 | 62 | <0.1 | 24.5 | 10.4 | 427 | 2.27 | 58.0 | 63.5 | 5.6 | 14 | 0.2 | 2.8 | 0.2 | 26 | 0.25 | 0.028 | 19 |
| 1238860 | Soil | 0.7 | 26.0 | 28.8 | 81 | 0.2 | 25.9 | 12.4 | 465 | 2.47 | 37.3 | 3.5 | 5.2 | 27 | 0.4 | 6.8 | 0.4 | 26 | 0.49 | 0.058 | 23 |
| 1238861 | Soil | 1.1 | 34.6 | 31.4 | 84 | 0.2 | 31.6 | 11.6 | 329 | 3.01 | 44.4 | 3.8 | 7.4 | 31 | 0.2 | 8.0 | 0.3 | 27 | 0.72 | 0.059 | 27 |
| 1238862 | Soil | 1.0 | 43.2 | 32.7 | 117 | 0.2 | 34.8 | 14.0 | 513 | 3.00 | 34.5 | 3.8 | 8.1 | 34 | 0.7 | 6.3 | 0.3 | 28 | 0.68 | 0.067 | 28 |
| 1238863 | Soil | 1.0 | 39.3 | 24.6 | 89 | 0.1 | 34.3 | 13.7 | 541 | 3.09 | 33.9 | 9.0 | 9.3 | 17 | 0.3 | 5.2 | 0.3 | 29 | 0.30 | 0.060 | 28 |
| 1238864 | Soil | 1.1 | 31.6 | 28.5 | 83 | 0.1 | 30.2 | 14.0 | 450 | 3.15 | 30.9 | 3.3 | 9.2 | 24 | 0.3 | 5.4 | 0.3 | 33 | 0.38 | 0.061 | 29 |
| 1238865 | Soil | 0.8 | 27.7 | 20.5 | 68 | <0.1 | 26.2 | 11.2 | 314 | 2.72 | 28.8 | 3.0 | 8.2 | 15 | 0.2 | 4.2 | 0.3 | 26 | 0.24 | 0.047 | 27 |
| 1238866 | Soil | 1.0 | 37.0 | 26.4 | 77 | <0.1 | 31.8 | 13.1 | 435 | 3.13 | 31.0 | 5.4 | 10.4 | 16 | 0.2 | 5.3 | 0.3 | 27 | 0.25 | 0.051 | 29 |

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Project: MQ
Report Date: June 29, 2012



# CERTIFICATE OF ANALYSIS WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238847 | Soil | 31 | 0.40 | 140 | 0.034 | <1 | 0.98 | 0.005 | 0.10 | 0.1 | 0.04 | 3.3 | <0.1 | <0.05 | 3 | 0.7 | <1 | <0.2 |
| 1238848 | Soil | 41 | 0.45 | 222 | 0.020 | <1 | 1.22 | 0.006 | 0.08 | 0.2 | 0.07 | 3.2 | 0.1 | <0.05 | 4 | 1.4 | 3 | <0.2 |
| 1238849 | Soil | 29 | 0.40 | 328 | 0.025 | 1 | 1.30 | 0.008 | 0.06 | 0.3 | 0.07 | 4.1 | <0.1 | <0.05 | 4 | 0.5 | <1 | <0.2 |
| 1238850 | Soil | 22 | 0.32 | 200 | 0.020 | <1 | 0.99 | 0.007 | 0.08 | 0.4 | 0.06 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238851 | Soil | 27 | 0.34 | 220 | 0.019 | <1 | 1.02 | 0.006 | 0.06 | 0.3 | 0.07 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238852 | Soil | 30 | 0.31 | 242 | 0.014 | <1 | 1.24 | 0.004 | 0.10 | 0.4 | 0.11 | 4.0 | 0.1 | <0.05 | 4 | 0.7 | 3 | <0.2 |
| 1238853 | Soil | 22 | 0.30 | 196 | 0.015 | <1 | 1.04 | 0.005 | 0.05 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238854 | Soil | 22 | 0.32 | 249 | 0.055 | <1 | 1.22 | 0.017 | 0.05 | 0.6 | 0.02 | 3.5 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238855 | Soil | 22 | 0.29 | 201 | 0.021 | <1 | 1.02 | 0.005 | 0.04 | 0.5 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238856 | Soil | 32 | 0.40 | 193 | 0.027 | <1 | 1.64 | 0.005 | 0.08 | 0.6 | 0.01 | 2.9 | 0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| 1238857 | Soil | 24 | 0.33 | 187 | 0.018 | <1 | 1.40 | 0.005 | 0.05 | 1.1 | <0.01 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238858 | Soil | 16 | 0.27 | 81 | 0.020 | <1 | 0.87 | 0.004 | 0.05 | 1.3 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238859 | Soil | 20 | 0.29 | 121 | 0.017 | <1 | 1.07 | 0.009 | 0.05 | 1.2 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238860 | Soil | 21 | 0.30 | 175 | 0.013 | <1 | 0.88 | 0.007 | 0.05 | 0.4 | 0.06 | 2.3 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238861 | Soil | 26 | 0.38 | 121 | 0.013 | <1 | 0.88 | 0.006 | 0.10 | 0.6 | 0.06 | 2.5 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1238862 | Soil | 24 | 0.35 | 164 | 0.015 | <1 | 0.86 | 0.005 | 0.12 | 0.5 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | 0.8 | 2 | <0.2 |
| 1238863 | Soil | 25 | 0.41 | 139 | 0.019 | <1 | 1.11 | 0.008 | 0.11 | 0.8 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | 0.9 | <1 | <0.2 |
| 1238864 | Soil | 25 | 0.35 | 111 | 0.018 | <1 | 0.89 | 0.005 | 0.09 | 0.4 | 0.05 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238865 | Soil | 22 | 0.32 | 120 | 0.012 | <1 | 0.97 | 0.005 | 0.08 | 0.4 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238866 | Soil | 24 | 0.36 | 123 | 0.014 | <1 | 1.05 | 0.006 | 0.08 | 0.6 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# QUALITY CONTROL REPORT WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1238009 | Soil | 1.4 | 13.0 | 16.4 | 54 | <0.1 | 15.5 | 7.6 | 227 | 2.70 | 12.6 | 2.8 | 4.6 | 9 | 0.2 | 1.4 | 0.2 | 54 | 0.07 | 0.025 | 16 |
| REP 1238009 | QC | 1.3 | 12.8 | 16.5 | 57 | <0.1 | 16.4 | 7.6 | 227 | 2.68 | 12.1 | 1.8 | 4.9 | 9 | 0.2 | 1.4 | 0.2 | 54 | 0.06 | 0.027 | 16 |
| 1238021 | Soil | 0.9 | 31.3 | 38.7 | 78 | 0.3 | 24.0 | 9.3 | 331 | 2.84 | 39.5 | 5.4 | 7.7 | 21 | 0.2 | 8.7 | 0.6 | 27 | 0.19 | 0.056 | 37 |
| REP 1238021 | QC | 0.8 | 31.8 | 38.5 | 77 | 0.3 | 23.6 | 9.8 | 333 | 2.86 | 40.6 | 3.8 | 7.8 | 20 | 0.3 | 8.8 | 0.7 | 26 | 0.20 | 0.057 | 37 |
| 1238045 | Soil | 0.9 | 20.0 | 18.1 | 67 | 0.1 | 23.4 | 9.0 | 240 | 2.63 | 20.1 | 6.2 | 8.0 | 20 | <0.1 | 4.0 | 0.2 | 22 | 0.39 | 0.064 | 29 |
| REP 1238045 | QC | 0.9 | 19.8 | 18.2 | 65 | 0.1 | 23.8 | 9.1 | 197 | 2.58 | 20.0 | 3.8 | 8.0 | 20 | <0.1 | 4.1 | 0.2 | 22 | 0.40 | 0.064 | 29 |
| 1238057 | Soil | 1.2 | 30.3 | 58.7 | 86 | 0.5 | 25.0 | 8.7 | 240 | 3.03 | 53.0 | 3.8 | 5.0 | 10 | 0.4 | 20.0 | 0.7 | 28 | 0.09 | 0.050 | 35 |
| REP 1238057 | QC | 1.0 | 30.9 | 58.8 | 88 | 0.5 | 24.7 | 8.8 | 243 | 3.12 | 54.1 | 3.6 | 4.9 | 10 | 0.4 | 20.3 | 0.7 | 27 | 0.09 | 0.050 | 34 |
| 1238211 | Soil | 1.0 | 32.8 | 14.2 | 60 | 0.3 | 26.9 | 11.3 | 427 | 2.87 | 8.7 | 2.1 | 6.2 | 23 | <0.1 | 1.7 | 0.2 | 33 | 0.35 | 0.043 | 28 |
| REP 1238211 | QC | 0.9 | 32.0 | 13.9 | 60 | 0.3 | 26.9 | 11.8 | 433 | 2.89 | 8.3 | 1.0 | 6.5 | 24 | 0.1 | 1.7 | 0.2 | 32 | 0.36 | 0.043 | 28 |
| 1238223 | Soil | 0.9 | 27.8 | 17.9 | 61 | 0.1 | 27.6 | 11.1 | 373 | 2.75 | 36.0 | 4.4 | 8.6 | 18 | <0.1 | 3.7 | 0.3 | 28 | 0.40 | 0.039 | 28 |
| REP 1238223 | QC | 0.8 | 27.6 | 17.5 | 62 | 0.1 | 27.3 | 10.7 | 363 | 2.68 | 35.1 | 5.4 | 8.3 | 18 | 0.1 | 3.7 | 0.2 | 28 | 0.38 | 0.039 | 28 |
| 1238247 | Soil | 1.0 | 29.6 | 29.1 | 86 | 0.2 | 26.3 | 10.5 | 372 | 2.65 | 48.1 | 3.7 | 7.9 | 23 | 0.3 | 5.4 | 0.4 | 21 | 0.41 | 0.044 | 21 |
| REP 1238247 | QC | 0.9 | 30.5 | 29.2 | 87 | 0.2 | 25.8 | 10.7 | 374 | 2.66 | 49.5 | 4.3 | 8.0 | 23 | 0.2 | 5.6 | 0.4 | 22 | 0.41 | 0.046 | 20 |
| 1238259 | Soil | 0.7 | 21.8 | 8.6 | 52 | <0.1 | 19.9 | 6.9 | 310 | 1.78 | 13.6 | 3.9 | 4.4 | 12 | 0.2 | 0.8 | 0.1 | 27 | 0.15 | 0.051 | 14 |
| REP 1238259 | QC | 0.5 | 22.1 | 8.6 | 51 | <0.1 | 20.7 | 7.3 | 305 | 1.75 | 13.2 | 5.6 | 4.2 | 12 | 0.2 | 0.9 | 0.1 | 26 | 0.15 | 0.049 | 13 |
| 1238609 | Soil | 0.6 | 20.8 | 13.8 | 40 | <0.1 | 19.7 | 8.1 | 198 | 2.63 | 8.5 | 1.7 | 7.9 | 6 | <0.1 | 4.0 | 0.2 | 35 | 0.04 | 0.012 | 22 |
| REP 1238609 | QC | 0.9 | 19.7 | 13.9 | 40 | <0.1 | 19.5 | 7.8 | 201 | 2.67 | 8.4 | 1.6 | 8.2 | 6 | <0.1 | 4.0 | 0.2 | 34 | 0.04 | 0.015 | 23 |
| 1238621 | Soil | 0.9 | 10.1 | 14.9 | 33 | <0.1 | 10.6 | 4.8 | 152 | 2.40 | 10.8 | 5.2 | 4.8 | 8 | <0.1 | 1.2 | 0.2 | 43 | 0.08 | 0.018 | 17 |
| REP 1238621 | QC | 0.9 | 9.8 | 14.6 | 30 | <0.1 | 10.3 | 4.8 | 150 | 2.31 | 10.9 | 7.4 | 4.4 | 8 | <0.1 | 1.1 | 0.1 | 41 | 0.06 | 0.017 | 17 |
| 1238646 | Soil | 0.5 | 51.1 | 26.0 | 92 | 0.2 | 49.4 | 22.1 | 792 | 4.31 | 3.9 | <0.5 | 16.6 | 22 | <0.1 | 2.0 | 0.3 | 19 | 0.28 | 0.057 | 51 |
| REP 1238646 | QC | 0.4 | 52.2 | 25.8 | 95 | 0.1 | 49.8 | 22.4 | 817 | 4.41 | 4.0 | <0.5 | 16.6 | 22 | <0.1 | 2.1 | 0.3 | 19 | 0.28 | 0.057 | 51 |
| 1238658 | Soil | 1.3 | 37.0 | 20.5 | 73 | 0.1 | 37.4 | 13.1 | 403 | 2.93 | 54.8 | 10.9 | 11.3 | 19 | 0.2 | 3.7 | 0.2 | 27 | 0.26 | 0.053 | 36 |
| REP 1238658 | QC | 1.3 | 36.9 | 20.5 | 73 | 0.1 | 36.0 | 13.3 | 406 | 2.96 | 54.6 | 6.4 | 11.3 | 19 | 0.2 | 3.6 | 0.2 | 28 | 0.25 | 0.055 | 36 |
| 1238682 | Soil | 1.1 | 34.4 | 33.7 | 68 | 0.2 | 23.7 | 9.5 | 190 | 2.81 | 13.5 | 5.1 | 9.6 | 16 | 0.2 | 5.0 | 0.4 | 22 | 0.16 | 0.040 | 48 |
| REP 1238682 | QC | 1.0 | 36.7 | 34.1 | 69 | 0.3 | 24.4 | 9.3 | 193 | 2.93 | 14.3 | 4.4 | 9.7 | 16 | 0.2 | 4.6 | 0.4 | 23 | 0.15 | 0.039 | 49 |
| 1238694 | Soil | 1.2 | 34.8 | 38.8 | 71 | 0.3 | 27.5 | 12.7 | 295 | 2.88 | 16.8 | 4.0 | 8.5 | 10 | 0.1 | 4.6 | 0.3 | 46 | 0.06 | 0.022 | 27 |
| REP 1238694 | QC | 1.2 | 34.1 | 39.1 | 74 | 0.3 | 29.0 | 12.8 | 288 | 2.83 | 17.0 | 10.8 | 8.2 | 12 | 0.1 | 4.4 | 0.3 | 46 | 0.06 | 0.021 | 28 |

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Project: MQ
Report Date: June 29, 2012



# QUALITY CONTROL REPORT WHI12000148.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1238009 | Soil | 30 | 0.34 | 174 | 0.028 | <1 | 1.67 | 0.006 | 0.05 | 0.3 | 0.04 | 3.3 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| REP 1238009 | QC | 30 | 0.34 | 173 | 0.028 | <1 | 1.69 | 0.007 | 0.05 | 0.3 | 0.03 | 2.9 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238021 | Soil | 22 | 0.34 | 176 | 0.015 | <1 | 1.01 | 0.005 | 0.09 | 0.3 | 0.08 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1238021 | QC | 22 | 0.34 | 178 | 0.015 | <1 | 1.02 | 0.005 | 0.08 | 0.3 | 0.07 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238045 | Soil | 23 | 0.43 | 72 | 0.014 | 3 | 0.98 | 0.005 | 0.06 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1238045 | QC | 22 | 0.42 | 70 | 0.014 | 1 | 0.97 | 0.005 | 0.06 | 0.4 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238057 | Soil | 23 | 0.32 | 99 | 0.010 | 1 | 1.05 | 0.004 | 0.06 | 0.5 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1238057 | QC | 23 | 0.33 | 97 | 0.010 | <1 | 1.05 | 0.004 | 0.05 | 0.4 | 0.04 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238211 | Soil | 21 | 0.28 | 275 | 0.028 | <1 | 1.06 | 0.006 | 0.07 | 0.2 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1238211 | QC | 21 | 0.27 | 267 | 0.010 | <1 | 1.04 | 0.005 | 0.07 | 0.2 | 0.05 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238223 | Soil | 22 | 0.30 | 154 | 0.015 | <1 | 1.06 | 0.010 | 0.06 | 0.5 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1238223 | QC | 21 | 0.29 | 150 | 0.015 | <1 | 1.00 | 0.009 | 0.06 | 0.6 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238247 | Soil | 20 | 0.36 | 92 | 0.016 | 2 | 0.95 | 0.009 | 0.08 | 0.8 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| REP 1238247 | QC | 20 | 0.37 | 91 | 0.017 | 1 | 0.98 | 0.009 | 0.08 | 0.7 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | 0.6 | 1 | <0.2 |
| 1238259 | Soil | 15 | 0.27 | 175 | 0.025 | <1 | 0.77 | 0.004 | 0.03 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238259 | QC | 15 | 0.26 | 170 | 0.026 | <1 | 0.75 | 0.005 | 0.03 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238609 | Soil | 20 | 0.26 | 140 | 0.015 | 2 | 1.30 | 0.004 | 0.07 | 0.1 | 0.02 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1238609 | QC | 22 | 0.27 | 145 | 0.016 | <1 | 1.35 | 0.005 | 0.07 | 0.2 | 0.03 | 3.2 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238621 | Soil | 22 | 0.24 | 112 | 0.016 | 1 | 1.36 | 0.004 | 0.04 | 0.2 | 0.03 | 2.2 | 0.1 | 0.06 | 5 | <0.5 | <1 | <0.2 |
| REP 1238621 | QC | 21 | 0.23 | 109 | 0.015 | 1 | 1.28 | 0.005 | 0.04 | 0.2 | 0.03 | 2.2 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238646 | Soil | 24 | 0.76 | 125 | 0.004 | <1 | 1.52 | 0.003 | 0.10 | <0.1 | 0.03 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1238646 | QC | 24 | 0.78 | 127 | 0.006 | 2 | 1.54 | 0.009 | 0.09 | <0.1 | 0.03 | 2.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238658 | Soil | 27 | 0.29 | 146 | 0.018 | 1 | 0.94 | 0.008 | 0.09 | 0.4 | 0.05 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1238658 | QC | 27 | 0.29 | 146 | 0.019 | <1 | 0.96 | 0.009 | 0.10 | 0.5 | 0.04 | 3.3 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238682 | Soil | 19 | 0.38 | 121 | 0.005 | 1 | 0.98 | 0.005 | 0.04 | 0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1238682 | QC | 20 | 0.41 | 122 | 0.006 | 2 | 1.02 | 0.005 | 0.04 | 0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238694 | Soil | 29 | 0.40 | 166 | 0.036 | 2 | 1.50 | 0.006 | 0.05 | 0.2 | 0.04 | 4.6 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1238694 | QC | 28 | 0.40 | 158 | 0.036 | 1 | 1.48 | 0.006 | 0.05 | 0.2 | 0.05 | 4.7 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: June 29, 2012



# QUALITY CONTROL REPORT WHI12000148.1

| | | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 | 1DX15 La ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1238807 | Soil | 1.1 | 19.7 | 31.1 | 50 | 0.1 | 17.4 | 7.0 | 149 | 2.58 | 10.8 | 2.1 | 4.0 | 9 | 0.2 | 4.5 | 0.2 | 40 | 0.06 | 0.023 | 27 |
| REP 1238807 | QC | 1.1 | 20.4 | 31.0 | 46 | 0.1 | 18.4 | 6.7 | 150 | 2.51 | 10.6 | 2.4 | 3.8 | 9 | 0.2 | 4.6 | 0.2 | 38 | 0.06 | 0.024 | 27 |
| 1238819 | Soil | 0.9 | 27.0 | 24.3 | 62 | 0.2 | 21.2 | 9.0 | 241 | 2.57 | 10.8 | 2.5 | 8.6 | 8 | 0.2 | 3.5 | 0.2 | 32 | 0.05 | 0.019 | 25 |
| REP 1238819 | QC | 0.9 | 27.4 | 25.0 | 62 | 0.2 | 21.0 | 9.1 | 247 | 2.57 | 10.8 | 5.2 | 8.8 | 9 | 0.2 | 3.4 | 0.2 | 33 | 0.05 | 0.020 | 25 |
| 1238844 | Soil | 1.0 | 28.4 | 17.2 | 68 | <0.1 | 32.6 | 14.6 | 425 | 3.13 | 12.9 | 2.1 | 8.5 | 23 | 0.2 | 1.1 | 0.2 | 41 | 0.21 | 0.036 | 26 |
| REP 1238844 | QC | 1.0 | 28.8 | 17.9 | 66 | <0.1 | 32.6 | 14.3 | 428 | 3.11 | 13.0 | 2.7 | 8.5 | 24 | 0.2 | 1.1 | 0.2 | 42 | 0.21 | 0.035 | 26 |
| 1238856 | Soil | 1.6 | 23.2 | 15.4 | 75 | 0.1 | 28.9 | 10.2 | 227 | 2.69 | 38.3 | 1.4 | 4.1 | 11 | 0.3 | 2.0 | 0.2 | 48 | 0.16 | 0.036 | 11 |
| REP 1238856 | QC | 1.5 | 23.3 | 16.0 | 75 | 0.1 | 29.1 | 10.1 | 258 | 2.71 | 39.3 | 2.4 | 4.1 | 11 | 0.2 | 2.1 | 0.2 | 47 | 0.15 | 0.038 | 11 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 14.1 | 104.5 | 123.7 | 306 | 1.9 | 42.6 | 7.6 | 591 | 2.33 | 25.5 | 119.7 | 6.0 | 72 | 2.2 | 5.6 | 5.2 | 46 | 0.72 | 0.080 | 13 |
| STD DS9 | Standard | 13.6 | 111.5 | 127.3 | 309 | 1.8 | 42.8 | 8.5 | 612 | 2.44 | 25.5 | 131.3 | 6.2 | 69 | 2.4 | 5.6 | 5.7 | 45 | 0.70 | 0.080 | 12 |
| STD DS9 | Standard | 14.0 | 110.6 | 110.3 | 307 | 1.9 | 41.6 | 7.7 | 588 | 2.30 | 26.0 | 132.8 | 5.3 | 60 | 2.3 | 5.0 | 5.3 | 45 | 0.72 | 0.079 | 13 |
| STD DS9 | Standard | 14.1 | 109.0 | 122.6 | 306 | 2.0 | 41.6 | 7.7 | 584 | 2.31 | 26.1 | 124.6 | 5.8 | 63 | 2.1 | 4.9 | 5.5 | 44 | 0.71 | 0.081 | 13 |
| STD DS9 | Standard | 13.3 | 107.6 | 113.7 | 298 | 1.8 | 40.7 | 7.6 | 569 | 2.27 | 25.5 | 119.9 | 5.6 | 64 | 2.3 | 4.7 | 5.2 | 43 | 0.72 | 0.078 | 13 |
| STD DS9 | Standard | 13.7 | 116.1 | 124.2 | 319 | 1.8 | 42.1 | 8.0 | 600 | 2.45 | 26.4 | 131.3 | 6.7 | 74 | 2.3 | 5.9 | 6.7 | 44 | 0.73 | 0.080 | 14 |
| STD DS9 | Standard | 13.1 | 112.0 | 113.7 | 308 | 1.8 | 42.4 | 7.9 | 587 | 2.38 | 26.3 | 121.8 | 5.4 | 60 | 2.5 | 4.7 | 5.4 | 45 | 0.71 | 0.082 | 12 |
| STD DS9 | Standard | 13.5 | 108.6 | 121.5 | 308 | 1.8 | 39.5 | 7.7 | 586 | 2.33 | 26.4 | 117.3 | 6.7 | 74 | 2.4 | 6.1 | 6.5 | 42 | 0.71 | 0.083 | 13 |
| STD DS9 | Standard | 14.3 | 109.1 | 124.4 | 311 | 1.9 | 39.6 | 7.5 | 574 | 2.26 | 27.1 | 118.8 | 6.7 | 76 | 2.4 | 6.2 | 6.8 | 42 | 0.70 | 0.079 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | 0.6 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: June 29, 2012



# QUALITY CONTROL REPORT WHI12000148.1

| | | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 | 1DX15 Sn ppm 1 | 1DX15 Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1238807 | Soil | 23 | 0.26 | 114 | 0.016 | <1 | 1.18 | 0.004 | 0.05 | 0.3 | 0.02 | 2.1 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| REP 1238807 | QC | 22 | 0.27 | 113 | 0.016 | 1 | 1.22 | 0.004 | 0.04 | 0.3 | 0.02 | 2.1 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238819 | Soil | 21 | 0.28 | 146 | 0.021 | <1 | 1.10 | 0.006 | 0.08 | 0.5 | 0.03 | 2.9 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| REP 1238819 | QC | 21 | 0.28 | 146 | 0.023 | <1 | 1.12 | 0.004 | 0.08 | 0.5 | 0.04 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238844 | Soil | 41 | 0.45 | 152 | 0.020 | <1 | 1.28 | 0.005 | 0.06 | 0.2 | 0.03 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| REP 1238844 | QC | 41 | 0.45 | 148 | 0.019 | <1 | 1.28 | 0.005 | 0.07 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | 0.6 | 4 | <0.2 |
| 1238856 | Soil | 32 | 0.40 | 193 | 0.027 | <1 | 1.64 | 0.005 | 0.08 | 0.6 | 0.01 | 2.9 | 0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| REP 1238856 | QC | 32 | 0.41 | 192 | 0.027 | <1 | 1.63 | 0.005 | 0.07 | 0.6 | <0.01 | 3.0 | 0.1 | <0.05 | 5 | 0.6 | 2 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 124 | 0.61 | 304 | 0.113 | 3 | 0.93 | 0.098 | 0.36 | 2.8 | 0.19 | 3.0 | 5.4 | 0.18 | 5 | 4.8 | 7 | 5.2 |
| STD DS9 | Standard | 131 | 0.65 | 298 | 0.114 | 3 | 0.97 | 0.115 | 0.38 | 3.0 | 0.22 | 3.4 | 5.5 | 0.23 | 5 | 5.4 | 7 | 4.8 |
| STD DS9 | Standard | 126 | 0.61 | 308 | 0.097 | 3 | 0.94 | 0.097 | 0.36 | 3.1 | 0.21 | 2.6 | 5.6 | 0.13 | 4 | 5.2 | 6 | 5.2 |
| STD DS9 | Standard | 127 | 0.62 | 314 | 0.097 | 3 | 0.99 | 0.105 | 0.38 | 2.9 | 0.23 | 2.7 | 5.6 | 0.08 | 5 | 5.5 | 6 | 5.9 |
| STD DS9 | Standard | 122 | 0.61 | 305 | 0.095 | 2 | 0.95 | 0.100 | 0.36 | 2.9 | 0.22 | 2.7 | 5.6 | 0.10 | 5 | 5.5 | 6 | 5.2 |
| STD DS9 | Standard | 125 | 0.61 | 309 | 0.117 | 3 | 0.97 | 0.105 | 0.37 | 3.0 | 0.21 | 2.8 | 5.6 | 0.16 | 5 | 5.3 | 7 | 5.1 |
| STD DS9 | Standard | 127 | 0.62 | 306 | 0.100 | 1 | 0.97 | 0.099 | 0.38 | 3.2 | 0.21 | 2.5 | 5.3 | 0.13 | 5 | 5.3 | 6 | 5.4 |
| STD DS9 | Standard | 119 | 0.61 | 313 | 0.113 | 3 | 0.95 | 0.096 | 0.39 | 3.0 | 0.21 | 3.1 | 5.3 | 0.11 | 5 | 5.1 | 7 | 5.3 |
| STD DS9 | Standard | 120 | 0.59 | 309 | 0.110 | 2 | 0.91 | 0.103 | 0.38 | 2.9 | 0.22 | 3.1 | 5.6 | 0.09 | 5 | 4.9 | 7 | 4.9 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 21, 2012
Report Date: July 02, 2012
Page: 1 of 8

# CERTIFICATE OF ANALYSIS WHI12000149.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQSoils1
P.O. Number
Number of Samples: 184

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 184 | Dry at 60C | | | WHI |
| SS80 | 184 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| RJSV | 184 | Saving all or part of Soil Reject | | | WHI |
| 1DX2 | 184 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238867 | Soil | 0.5 | 29.1 | 22.2 | 78 | 0.2 | 27.5 | 9.8 | 324 | 2.46 | 28.3 | 5.5 | 5.2 | 86 | 0.2 | 4.9 | 0.4 | 21 | 1.46 | 0.055 | 21 |
| 1238868 | Soil | 1.1 | 32.7 | 33.8 | 83 | 0.2 | 32.8 | 13.4 | 336 | 2.82 | 36.2 | 6.1 | 10.3 | 51 | 0.2 | 6.1 | 0.4 | 25 | 0.45 | 0.052 | 31 |
| 1238869 | Soil | 0.6 | 25.3 | 22.5 | 55 | 0.1 | 25.2 | 10.4 | 304 | 2.46 | 22.8 | 5.2 | 6.7 | 98 | 0.1 | 5.3 | 0.3 | 20 | 0.73 | 0.034 | 25 |
| 1238870 | Soil | 0.6 | 25.0 | 19.2 | 61 | <0.1 | 26.1 | 12.3 | 858 | 2.40 | 21.5 | 4.0 | 6.3 | 80 | <0.1 | 7.5 | 0.3 | 17 | 0.97 | 0.039 | 23 |
| 1238871 | Soil | 0.9 | 26.7 | 18.9 | 59 | 0.1 | 27.6 | 12.0 | 827 | 2.58 | 17.4 | 5.1 | 5.5 | 87 | 0.1 | 3.0 | 0.2 | 26 | 0.98 | 0.037 | 21 |
| 1238872 | Soil | 1.3 | 30.7 | 22.3 | 57 | 0.1 | 29.2 | 10.3 | 391 | 2.50 | 9.9 | 7.4 | 5.4 | 63 | <0.1 | 1.6 | 0.3 | 29 | 0.72 | 0.047 | 22 |
| 1238873 | Soil | 0.9 | 38.9 | 36.9 | 81 | 0.2 | 42.2 | 17.3 | 490 | 3.62 | 4.5 | 2.2 | 14.9 | 33 | <0.1 | 0.7 | 0.3 | 21 | 0.38 | 0.047 | 47 |
| 1238874 | Soil | 1.0 | 34.1 | 21.0 | 59 | 0.2 | 29.6 | 10.4 | 392 | 2.60 | 9.6 | 4.9 | 3.1 | 63 | <0.1 | 1.1 | 0.2 | 30 | 0.95 | 0.050 | 24 |
| 1238875 | Soil | 1.0 | 21.3 | 16.5 | 55 | <0.1 | 22.4 | 9.9 | 371 | 2.46 | 6.3 | 1.7 | 6.2 | 13 | <0.1 | 0.6 | 0.2 | 30 | 0.13 | 0.043 | 26 |
| 1238876 | Soil | 1.2 | 23.0 | 22.5 | 52 | <0.1 | 23.7 | 9.5 | 466 | 2.44 | 7.7 | 1.7 | 7.3 | 16 | <0.1 | 0.8 | 0.2 | 35 | 0.17 | 0.023 | 25 |
| 1238877 | Soil | 1.0 | 29.2 | 15.0 | 54 | <0.1 | 25.5 | 9.6 | 358 | 2.45 | 11.5 | 4.1 | 6.2 | 16 | <0.1 | 0.8 | 0.2 | 39 | 0.21 | 0.026 | 19 |
| 1238878 | Soil | 1.4 | 24.7 | 16.4 | 50 | <0.1 | 21.2 | 9.3 | 313 | 2.67 | 9.2 | 2.2 | 7.2 | 12 | <0.1 | 1.0 | 0.2 | 42 | 0.11 | 0.017 | 22 |
| 1238879 | Soil | 1.0 | 29.7 | 13.8 | 59 | <0.1 | 22.8 | 9.7 | 292 | 2.61 | 10.2 | 4.6 | 7.1 | 13 | <0.1 | 1.2 | 0.1 | 41 | 0.10 | 0.020 | 23 |
| 1238880 | Soil | 1.1 | 30.3 | 17.4 | 56 | 0.1 | 26.1 | 9.1 | 235 | 2.70 | 8.5 | 3.0 | 9.7 | 9 | <0.1 | 1.2 | 0.2 | 33 | 0.05 | 0.019 | 24 |
| 1238881 | Soil | 1.1 | 34.8 | 27.8 | 65 | 0.1 | 31.2 | 11.4 | 368 | 2.81 | 12.2 | 3.3 | 10.9 | 30 | <0.1 | 3.6 | 0.2 | 22 | 0.34 | 0.041 | 30 |
| 1238882 | Soil | 1.1 | 30.7 | 21.3 | 60 | <0.1 | 30.4 | 11.8 | 371 | 2.59 | 9.9 | 1.8 | 10.5 | 27 | <0.1 | 3.1 | 0.2 | 24 | 0.31 | 0.039 | 31 |
| 1238883 | Soil | 0.6 | 22.4 | 27.2 | 69 | 0.2 | 21.1 | 8.8 | 548 | 2.16 | 20.6 | 5.0 | 5.1 | 34 | 0.2 | 4.4 | 0.4 | 23 | 0.57 | 0.060 | 23 |
| 1238884 | Soil | 0.4 | 12.8 | 15.5 | 50 | 0.1 | 14.5 | 7.2 | 389 | 1.76 | 16.3 | 15.8 | 4.7 | 28 | <0.1 | 2.4 | 0.2 | 23 | 0.44 | 0.053 | 19 |
| 1238885 | Soil | 0.6 | 25.6 | 19.2 | 63 | 0.1 | 20.2 | 9.1 | 282 | 2.18 | 21.2 | 7.4 | 7.1 | 18 | 0.2 | 3.0 | 0.2 | 27 | 0.27 | 0.055 | 23 |
| 1238886 | Soil | 1.0 | 33.2 | 26.1 | 75 | 0.2 | 29.9 | 12.0 | 528 | 2.64 | 27.0 | 3.8 | 10.5 | 19 | 0.2 | 4.3 | 0.3 | 22 | 0.29 | 0.057 | 28 |
| 1238887 | Soil | 1.0 | 26.9 | 20.8 | 65 | 0.1 | 25.8 | 9.9 | 320 | 2.45 | 23.9 | 5.1 | 7.6 | 19 | <0.1 | 2.7 | 0.2 | 29 | 0.29 | 0.059 | 22 |
| 1238888 | Soil | 1.1 | 35.3 | 23.8 | 73 | 0.2 | 31.9 | 12.6 | 507 | 3.07 | 26.0 | 3.5 | 11.1 | 17 | 0.2 | 2.5 | 0.2 | 21 | 0.22 | 0.054 | 30 |
| 1238889 | Soil | 0.6 | 23.5 | 8.7 | 45 | <0.1 | 21.4 | 8.4 | 302 | 1.78 | 15.0 | 3.0 | 4.4 | 9 | <0.1 | 0.7 | <0.1 | 26 | 0.12 | 0.053 | 14 |
| 1238890 | Soil | 0.8 | 29.8 | 11.0 | 54 | <0.1 | 20.2 | 8.0 | 249 | 1.85 | 17.2 | 4.0 | 4.6 | 16 | <0.1 | 1.1 | 0.1 | 26 | 0.24 | 0.062 | 13 |
| 1238891 | Soil | 0.5 | 19.6 | 7.1 | 42 | <0.1 | 15.1 | 6.1 | 183 | 1.56 | 10.3 | 2.3 | 2.5 | 11 | <0.1 | 0.6 | <0.1 | 27 | 0.17 | 0.058 | 13 |
| 1238892 | Soil | 0.4 | 15.4 | 7.8 | 37 | <0.1 | 13.0 | 4.7 | 116 | 1.53 | 9.1 | 3.1 | 1.6 | 9 | <0.1 | 0.5 | <0.1 | 25 | 0.11 | 0.047 | 12 |
| 1238893 | Soil | 0.8 | 28.7 | 14.4 | 50 | <0.1 | 22.0 | 7.7 | 245 | 1.98 | 11.0 | 3.2 | 6.6 | 13 | <0.1 | 0.6 | 0.1 | 26 | 0.16 | 0.045 | 20 |
| 1238894 | Soil | 1.2 | 38.5 | 21.1 | 76 | <0.1 | 31.9 | 12.2 | 218 | 3.65 | 7.0 | 3.3 | 18.5 | 9 | <0.1 | 0.7 | 0.2 | 18 | 0.03 | 0.021 | 56 |
| 1238895 | Soil | 0.9 | 27.0 | 18.9 | 52 | <0.1 | 22.8 | 7.8 | 191 | 2.58 | 9.1 | 3.1 | 10.7 | 8 | <0.1 | 0.6 | 0.2 | 23 | 0.06 | 0.023 | 32 |
| 1238896 | Soil | 1.0 | 21.2 | 14.0 | 50 | <0.1 | 21.8 | 8.2 | 235 | 2.26 | 12.6 | 19.5 | 5.9 | 9 | <0.1 | 0.9 | 0.1 | 35 | 0.08 | 0.016 | 16 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238867 | Soil | 21 | 0.38 | 137 | 0.008 | 3 | 0.90 | 0.011 | 0.08 | 0.3 | 0.05 | 1.9 | <0.1 | 0.06 | 3 | <0.5 | 3 | <0.2 |
| 1238868 | Soil | 27 | 0.36 | 82 | 0.016 | 1 | 0.88 | 0.010 | 0.12 | 0.6 | 0.05 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | 6 | <0.2 |
| 1238869 | Soil | 19 | 0.32 | 100 | 0.008 | 2 | 0.78 | 0.007 | 0.06 | 0.3 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | 0.6 | 4 | <0.2 |
| 1238870 | Soil | 16 | 0.29 | 163 | 0.007 | 2 | 0.69 | 0.007 | 0.06 | 0.3 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1238871 | Soil | 21 | 0.32 | 177 | 0.013 | 2 | 0.83 | 0.008 | 0.06 | 0.3 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238872 | Soil | 23 | 0.35 | 212 | 0.013 | 1 | 0.99 | 0.008 | 0.06 | 0.3 | 0.07 | 2.9 | 0.1 | <0.05 | 3 | <0.5 | 7 | <0.2 |
| 1238873 | Soil | 29 | 0.79 | 123 | 0.005 | <1 | 1.63 | 0.004 | 0.07 | <0.1 | 0.04 | 2.3 | <0.1 | <0.05 | 5 | <0.5 | 3 | <0.2 |
| 1238874 | Soil | 22 | 0.28 | 213 | 0.011 | 1 | 1.02 | 0.008 | 0.06 | 0.2 | 0.06 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238875 | Soil | 23 | 0.42 | 200 | 0.012 | <1 | 1.18 | 0.005 | 0.05 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238876 | Soil | 25 | 0.37 | 243 | 0.019 | <1 | 1.26 | 0.007 | 0.05 | 0.2 | 0.01 | 2.5 | <0.1 | <0.05 | 4 | <0.5 | 8 | <0.2 |
| 1238877 | Soil | 28 | 0.41 | 310 | 0.032 | <1 | 1.11 | 0.009 | 0.05 | 0.2 | 0.04 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238878 | Soil | 29 | 0.38 | 286 | 0.024 | <1 | 1.36 | 0.006 | 0.05 | 0.2 | 0.04 | 4.0 | 0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238879 | Soil | 26 | 0.40 | 273 | 0.033 | <1 | 1.29 | 0.006 | 0.06 | 0.2 | 0.05 | 4.1 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238880 | Soil | 26 | 0.38 | 136 | 0.016 | <1 | 1.51 | 0.007 | 0.07 | 0.2 | 0.03 | 2.3 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238881 | Soil | 23 | 0.30 | 150 | 0.007 | <1 | 0.91 | 0.006 | 0.12 | 0.1 | 0.04 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 7 | <0.2 |
| 1238882 | Soil | 24 | 0.36 | 154 | 0.009 | <1 | 0.96 | 0.006 | 0.09 | 0.2 | 0.04 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238883 | Soil | 19 | 0.33 | 186 | 0.008 | <1 | 0.91 | 0.008 | 0.07 | 0.2 | 0.08 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238884 | Soil | 15 | 0.31 | 142 | 0.013 | <1 | 0.73 | 0.009 | 0.05 | 0.6 | 0.04 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238885 | Soil | 19 | 0.32 | 153 | 0.018 | <1 | 0.84 | 0.007 | 0.06 | 0.6 | 0.05 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238886 | Soil | 21 | 0.37 | 113 | 0.017 | <1 | 0.83 | 0.008 | 0.09 | 0.3 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238887 | Soil | 22 | 0.37 | 130 | 0.027 | <1 | 0.87 | 0.011 | 0.06 | 0.5 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238888 | Soil | 18 | 0.29 | 136 | 0.015 | <1 | 0.68 | 0.009 | 0.05 | 0.3 | 0.05 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238889 | Soil | 16 | 0.27 | 119 | 0.022 | <1 | 0.77 | 0.005 | 0.03 | 0.2 | 0.03 | 2.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238890 | Soil | 17 | 0.28 | 140 | 0.024 | <1 | 0.66 | 0.008 | 0.04 | 0.3 | 0.06 | 2.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238891 | Soil | 16 | 0.25 | 162 | 0.015 | <1 | 0.77 | 0.005 | 0.02 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238892 | Soil | 14 | 0.24 | 121 | 0.014 | <1 | 0.72 | 0.006 | 0.02 | 0.2 | 0.03 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238893 | Soil | 17 | 0.30 | 157 | 0.018 | <1 | 0.79 | 0.006 | 0.03 | 0.2 | 0.04 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238894 | Soil | 15 | 0.23 | 79 | 0.003 | <1 | 0.80 | 0.005 | 0.06 | <0.1 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238895 | Soil | 19 | 0.38 | 133 | 0.010 | <1 | 1.01 | 0.007 | 0.04 | 0.1 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238896 | Soil | 22 | 0.32 | 148 | 0.026 | <1 | 1.11 | 0.005 | 0.03 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238897 | Soil | 1.0 | 22.8 | 15.8 | 55 | <0.1 | 24.7 | 10.8 | 402 | 2.06 | 13.9 | 8.9 | 4.8 | 11 | <0.1 | 1.3 | 0.1 | 26 | 0.13 | 0.046 | 18 |
| 1238898 | Soil | 1.0 | 27.6 | 19.3 | 70 | 0.1 | 25.7 | 8.9 | 333 | 2.32 | 24.4 | 4.8 | 8.2 | 15 | <0.1 | 3.5 | 0.2 | 24 | 0.18 | 0.055 | 26 |
| 1238899 | Soil | 0.5 | 23.1 | 12.0 | 43 | 0.1 | 20.0 | 6.4 | 309 | 1.75 | 12.6 | 4.4 | 3.9 | 19 | <0.1 | 1.9 | 0.1 | 26 | 0.27 | 0.055 | 14 |
| 1238900 | Soil | 0.6 | 15.3 | 10.0 | 49 | 0.1 | 16.1 | 8.2 | 309 | 1.70 | 12.8 | 3.1 | 3.4 | 20 | <0.1 | 1.0 | 0.1 | 24 | 0.31 | 0.065 | 14 |
| 1238901 | Soil | 0.3 | 16.3 | 7.7 | 40 | <0.1 | 14.2 | 5.1 | 70 | 0.95 | 3.2 | 2.0 | 3.0 | 25 | <0.1 | 0.4 | <0.1 | 25 | 0.32 | 0.050 | 11 |
| 1238902 | Soil | 2.0 | 41.3 | 35.0 | 87 | <0.1 | 40.6 | 18.8 | 595 | 3.89 | 22.2 | 3.0 | 10.0 | 12 | <0.1 | 3.5 | 0.4 | 19 | 0.11 | 0.049 | 31 |
| 1238903 | Soil | 0.6 | 19.0 | 10.7 | 46 | 0.1 | 15.6 | 13.0 | 730 | 1.22 | 6.2 | 3.2 | 2.0 | 18 | 0.2 | 0.8 | 0.2 | 26 | 0.29 | 0.051 | 11 |
| 1238904 | Soil | 1.1 | 35.4 | 25.6 | 73 | 0.2 | 30.9 | 12.3 | 471 | 2.65 | 30.0 | 4.4 | 9.0 | 27 | 0.3 | 4.7 | 0.4 | 26 | 0.62 | 0.042 | 23 |
| 1239051 | Soil | 1.1 | 29.9 | 28.7 | 64 | 0.1 | 30.0 | 11.5 | 170 | 2.57 | 7.4 | 1.7 | 14.7 | 4 | 0.3 | 2.6 | 0.2 | 22 | 0.02 | 0.023 | 50 |
| 1239052 | Soil | 1.6 | 30.3 | 16.8 | 60 | 0.2 | 19.1 | 8.7 | 267 | 2.80 | 13.8 | 3.5 | 7.3 | 10 | 0.2 | 1.9 | 0.2 | 68 | 0.07 | 0.018 | 19 |
| 1239053 | Soil | 1.0 | 44.6 | 34.7 | 68 | <0.1 | 49.6 | 29.6 | 519 | 3.64 | 3.1 | 0.9 | 18.6 | 5 | <0.1 | 0.4 | 0.3 | 18 | 0.02 | 0.021 | 47 |
| 1239054 | Soil | 0.9 | 13.8 | 25.4 | 45 | 0.4 | 23.3 | 7.6 | 223 | 2.42 | 8.5 | 3.2 | 6.6 | 7 | 0.1 | 6.0 | 0.2 | 48 | 0.05 | 0.039 | 28 |
| 1239055 | Soil | 0.9 | 23.0 | 17.0 | 47 | 0.1 | 19.8 | 9.3 | 214 | 2.77 | 9.0 | 4.9 | 9.4 | 7 | <0.1 | 1.1 | 0.2 | 47 | 0.04 | 0.020 | 29 |
| 1239056 | Soil | 1.2 | 24.2 | 20.5 | 49 | 0.2 | 18.7 | 8.8 | 235 | 2.51 | 9.4 | 3.0 | 8.1 | 8 | <0.1 | 1.1 | 0.2 | 47 | 0.05 | 0.020 | 25 |
| 1239057 | Soil | 1.0 | 29.3 | 18.4 | 57 | <0.1 | 25.3 | 12.7 | 275 | 2.75 | 7.3 | 4.8 | 11.0 | 8 | <0.1 | 1.3 | 0.2 | 40 | 0.05 | 0.017 | 37 |
| 1239058 | Soil | 1.0 | 24.6 | 17.8 | 49 | <0.1 | 22.5 | 8.6 | 186 | 2.45 | 11.2 | 1.6 | 8.5 | 9 | 0.1 | 2.6 | 0.2 | 42 | 0.06 | 0.022 | 28 |
| 1239059 | Soil | 0.8 | 32.6 | 23.6 | 60 | <0.1 | 48.3 | 12.0 | 318 | 2.66 | 10.3 | 6.7 | 10.0 | 9 | 0.1 | 4.6 | 0.2 | 39 | 0.06 | 0.025 | 36 |
| 1239060 | Soil | 0.9 | 40.7 | 34.0 | 65 | <0.1 | 46.2 | 17.9 | 325 | 3.49 | 6.8 | 14.3 | 14.8 | 6 | <0.1 | 1.2 | 0.3 | 51 | 0.03 | 0.023 | 38 |
| 1239061 | Soil | 1.0 | 28.2 | 17.4 | 57 | <0.1 | 43.6 | 13.1 | 320 | 2.67 | 8.1 | 3.7 | 8.7 | 8 | <0.1 | 1.7 | 0.2 | 45 | 0.07 | 0.032 | 35 |
| 1239062 | Soil | 1.0 | 17.9 | 12.0 | 42 | 0.1 | 17.2 | 5.6 | 127 | 1.88 | 10.1 | 1.9 | 4.0 | 13 | <0.1 | 5.4 | 0.1 | 40 | 0.08 | 0.017 | 18 |
| 1239063 | Soil | 1.2 | 17.5 | 15.1 | 62 | 0.4 | 32.8 | 11.5 | 305 | 2.65 | 11.6 | 1.2 | 3.2 | 15 | 0.2 | 1.0 | 0.2 | 61 | 0.09 | 0.045 | 14 |
| 1239064 | Soil | 1.0 | 21.5 | 19.5 | 46 | <0.1 | 17.2 | 6.8 | 170 | 2.22 | 12.7 | 9.7 | 5.8 | 10 | <0.1 | 2.4 | 0.1 | 41 | 0.07 | 0.017 | 17 |
| 1239065 | Soil | 1.2 | 25.3 | 23.2 | 55 | 0.3 | 22.5 | 8.6 | 210 | 2.39 | 11.1 | 3.0 | 5.4 | 10 | 0.2 | 2.8 | 0.2 | 44 | 0.07 | 0.017 | 18 |
| 1239066 | Soil | 0.8 | 22.2 | 18.1 | 48 | 0.2 | 19.1 | 6.5 | 176 | 2.11 | 8.8 | 5.7 | 4.9 | 11 | 0.2 | 1.7 | 0.1 | 45 | 0.09 | 0.017 | 20 |
| 1239067 | Soil | 0.7 | 19.3 | 30.4 | 54 | 0.2 | 15.6 | 6.6 | 145 | 2.11 | 13.8 | 2.5 | 7.3 | 7 | 0.2 | 4.5 | 0.2 | 33 | 0.05 | 0.015 | 23 |
| 1239068 | Soil | 0.8 | 28.1 | 28.2 | 58 | 0.2 | 21.6 | 9.0 | 232 | 2.49 | 12.7 | 3.4 | 9.1 | 8 | 0.2 | 3.0 | 0.2 | 32 | 0.05 | 0.019 | 28 |
| 1239069 | Soil | 1.2 | 29.8 | 33.1 | 65 | 0.3 | 23.4 | 9.1 | 213 | 2.68 | 11.4 | 2.7 | 9.5 | 8 | 0.3 | 3.7 | 0.2 | 37 | 0.04 | 0.021 | 25 |
| 1239070 | Soil | 1.0 | 25.1 | 22.4 | 54 | 0.2 | 18.3 | 8.0 | 221 | 2.40 | 10.1 | 3.8 | 7.0 | 11 | <0.1 | 2.5 | 0.1 | 40 | 0.10 | 0.016 | 22 |
| 1239071 | Soil | 0.9 | 31.6 | 28.5 | 66 | 0.1 | 25.6 | 10.2 | 257 | 2.70 | 13.1 | 1.6 | 10.5 | 7 | 0.2 | 5.7 | 0.2 | 25 | 0.04 | 0.020 | 33 |
| 1239072 | Soil | 0.7 | 29.6 | 34.2 | 69 | 0.1 | 28.2 | 11.4 | 319 | 2.78 | 14.8 | 2.6 | 11.2 | 7 | 0.2 | 7.9 | 0.2 | 27 | 0.03 | 0.024 | 32 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238897 | Soil | 20 | 0.28 | 117 | 0.020 | <1 | 0.82 | 0.004 | 0.03 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238898 | Soil | 21 | 0.37 | 154 | 0.020 | <1 | 0.92 | 0.007 | 0.07 | 0.3 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238899 | Soil | 17 | 0.28 | 325 | 0.014 | <1 | 0.82 | 0.007 | 0.03 | 0.3 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238900 | Soil | 14 | 0.27 | 198 | 0.016 | <1 | 0.67 | 0.007 | 0.03 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238901 | Soil | 14 | 0.27 | 182 | 0.021 | <1 | 0.68 | 0.008 | 0.03 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238902 | Soil | 23 | 0.20 | 49 | 0.008 | <1 | 0.52 | 0.005 | 0.04 | 0.1 | 0.01 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | 7 | <0.2 |
| 1238903 | Soil | 16 | 0.23 | 321 | 0.009 | 2 | 0.66 | 0.006 | 0.02 | 0.2 | 0.05 | 1.7 | <0.1 | 0.05 | 2 | 1.0 | 1 | <0.2 |
| 1238904 | Soil | 21 | 0.47 | 136 | 0.014 | 2 | 0.91 | 0.007 | 0.10 | 0.3 | 0.04 | 2.1 | 0.1 | <0.05 | 3 | 0.7 | 1 | <0.2 |
| 1239051 | Soil | 19 | 0.07 | 43 | 0.007 | 1 | 0.60 | 0.002 | 0.02 | 0.2 | 0.04 | 1.2 | 0.5 | <0.05 | 2 | 0.6 | 5 | <0.2 |
| 1239052 | Soil | 38 | 0.48 | 225 | 0.041 | 3 | 1.99 | 0.008 | 0.04 | 0.3 | 0.04 | 5.7 | 0.3 | <0.05 | 6 | 0.5 | 1 | <0.2 |
| 1239053 | Soil | 20 | 0.63 | 40 | 0.004 | <1 | 1.47 | 0.002 | 0.02 | <0.1 | 0.02 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239054 | Soil | 70 | 0.36 | 64 | 0.017 | <1 | 1.09 | 0.003 | 0.03 | 0.2 | <0.01 | 1.9 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239055 | Soil | 30 | 0.31 | 125 | 0.025 | <1 | 1.30 | 0.004 | 0.03 | 0.2 | 0.06 | 3.5 | 0.3 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1239056 | Soil | 28 | 0.31 | 148 | 0.025 | 2 | 1.24 | 0.007 | 0.04 | 0.3 | 0.04 | 3.6 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239057 | Soil | 26 | 0.31 | 165 | 0.026 | 1 | 1.12 | 0.005 | 0.04 | 0.2 | 0.04 | 3.6 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239058 | Soil | 26 | 0.29 | 128 | 0.022 | <1 | 1.11 | 0.004 | 0.04 | 0.3 | 0.04 | 2.9 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239059 | Soil | 74 | 0.33 | 152 | 0.014 | <1 | 1.00 | 0.003 | 0.06 | 0.3 | 0.05 | 4.5 | 0.2 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1239060 | Soil | 76 | 0.66 | 69 | 0.007 | <1 | 1.36 | 0.003 | 0.05 | 0.3 | 0.04 | 4.1 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239061 | Soil | 93 | 0.48 | 181 | 0.016 | <1 | 1.15 | 0.004 | 0.04 | 0.3 | 0.02 | 4.0 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239062 | Soil | 21 | 0.27 | 142 | 0.025 | <1 | 0.95 | 0.004 | 0.04 | 0.2 | 0.06 | 1.5 | 0.4 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1239063 | Soil | 78 | 0.37 | 250 | 0.041 | <1 | 1.50 | 0.006 | 0.05 | 0.2 | 0.02 | 2.8 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239064 | Soil | 26 | 0.34 | 141 | 0.031 | <1 | 1.26 | 0.005 | 0.04 | 0.3 | 0.05 | 3.8 | 0.2 | <0.05 | 4 | 1.0 | <1 | <0.2 |
| 1239065 | Soil | 29 | 0.33 | 167 | 0.028 | 2 | 1.24 | 0.005 | 0.04 | 0.3 | 0.02 | 3.2 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239066 | Soil | 29 | 0.34 | 206 | 0.037 | <1 | 1.17 | 0.006 | 0.04 | 0.3 | 0.02 | 3.3 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239067 | Soil | 21 | 0.20 | 97 | 0.017 | <1 | 1.11 | 0.003 | 0.04 | 0.4 | 0.02 | 1.9 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239068 | Soil | 22 | 0.24 | 108 | 0.018 | <1 | 0.98 | 0.004 | 0.05 | 0.5 | 0.05 | 2.5 | 0.2 | <0.05 | 3 | 0.7 | 1 | <0.2 |
| 1239069 | Soil | 23 | 0.24 | 118 | 0.017 | <1 | 1.05 | 0.004 | 0.06 | 0.5 | 0.04 | 2.5 | 0.2 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1239070 | Soil | 26 | 0.35 | 213 | 0.029 | <1 | 1.20 | 0.007 | 0.05 | 0.3 | 0.05 | 3.8 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239071 | Soil | 19 | 0.20 | 114 | 0.016 | <1 | 0.80 | 0.004 | 0.07 | 0.5 | 0.05 | 2.3 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239072 | Soil | 22 | 0.21 | 104 | 0.013 | <1 | 0.92 | 0.003 | 0.09 | 0.7 | 0.02 | 2.0 | 0.2 | <0.05 | 3 | 1.0 | 2 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239073 | Soil | 1.2 | 34.0 | 34.5 | 66 | 0.4 | 26.4 | 10.6 | 285 | 2.84 | 13.8 | 2.0 | 8.4 | 9 | 0.5 | 5.1 | 0.3 | 36 | 0.05 | 0.035 | 29 |
| 1239074 | Soil | 1.0 | 25.1 | 22.8 | 56 | <0.1 | 19.6 | 7.7 | 238 | 2.22 | 12.3 | 4.0 | 6.7 | 10 | 0.1 | 6.1 | 0.1 | 30 | 0.07 | 0.018 | 26 |
| 1239075 | Soil | 0.8 | 19.7 | 14.6 | 47 | <0.1 | 17.0 | 6.6 | 211 | 2.06 | 10.5 | 4.9 | 5.0 | 11 | 0.2 | 2.7 | 0.1 | 35 | 0.12 | 0.030 | 19 |
| 1239076 | Soil | 1.0 | 25.0 | 14.1 | 50 | <0.1 | 18.8 | 7.8 | 253 | 2.11 | 11.0 | 1.9 | 5.6 | 15 | <0.1 | 2.1 | 0.1 | 36 | 0.15 | 0.033 | 24 |
| 1239077 | Soil | 1.0 | 19.8 | 15.3 | 49 | 0.1 | 17.9 | 8.4 | 261 | 2.13 | 11.0 | 1.9 | 5.9 | 9 | <0.1 | 2.6 | 0.1 | 34 | 0.09 | 0.023 | 20 |
| 1239078 | Soil | 1.6 | 19.5 | 26.2 | 61 | <0.1 | 20.5 | 7.7 | 249 | 2.50 | 34.1 | 3.0 | 4.2 | 9 | 0.2 | 3.3 | 0.4 | 39 | 0.09 | 0.047 | 21 |
| 1239079 | Soil | 0.7 | 24.2 | 12.8 | 50 | <0.1 | 17.5 | 9.0 | 330 | 2.38 | 16.0 | 13.3 | 5.4 | 10 | <0.1 | 1.8 | 0.2 | 43 | 0.09 | 0.027 | 18 |
| 1239080 | Soil | 1.0 | 22.4 | 12.6 | 51 | <0.1 | 19.7 | 9.6 | 239 | 2.37 | 15.8 | 8.8 | 5.0 | 13 | <0.1 | 1.5 | 0.2 | 47 | 0.10 | 0.021 | 16 |
| 1239081 | Soil | 1.0 | 17.4 | 15.2 | 47 | 0.2 | 18.3 | 8.0 | 179 | 2.29 | 22.5 | 1.6 | 4.7 | 8 | 0.2 | 1.9 | 0.2 | 43 | 0.06 | 0.024 | 15 |
| 1239082 | Soil | 1.1 | 22.5 | 16.2 | 62 | <0.1 | 20.5 | 8.9 | 290 | 2.15 | 27.7 | 3.4 | 5.7 | 14 | <0.1 | 3.1 | 0.2 | 29 | 0.15 | 0.046 | 21 |
| 1239083 | Soil | 0.6 | 17.6 | 23.1 | 68 | 0.2 | 20.0 | 10.5 | 367 | 1.96 | 24.1 | 3.1 | 3.1 | 31 | 0.7 | 4.7 | 0.2 | 27 | 0.38 | 0.056 | 21 |
| 1239084 | Soil | 1.1 | 14.5 | 9.8 | 39 | <0.1 | 13.8 | 5.9 | 153 | 2.13 | 8.9 | 1.0 | 4.5 | 9 | <0.1 | 0.6 | 0.1 | 46 | 0.07 | 0.018 | 15 |
| 1239085 | Soil | 1.1 | 39.4 | 13.7 | 53 | <0.1 | 26.5 | 9.9 | 236 | 2.62 | 10.2 | 2.4 | 6.3 | 10 | <0.1 | 0.7 | 0.2 | 52 | 0.10 | 0.023 | 14 |
| 1239086 | Soil | 1.0 | 30.0 | 10.9 | 55 | <0.1 | 21.0 | 9.9 | 297 | 2.55 | 10.6 | 4.2 | 5.2 | 24 | 0.1 | 0.7 | 0.2 | 59 | 0.17 | 0.026 | 17 |
| 1239087 | Soil | 1.2 | 19.3 | 14.0 | 54 | 0.2 | 18.9 | 9.3 | 341 | 2.68 | 9.2 | 1.5 | 3.3 | 23 | 0.2 | 1.2 | 0.2 | 77 | 0.22 | 0.092 | 16 |
| 1239088 | Soil | 1.1 | 41.7 | 13.5 | 61 | <0.1 | 25.1 | 11.2 | 405 | 3.13 | 7.7 | 2.2 | 6.4 | 35 | 0.1 | 0.7 | 0.2 | 98 | 0.41 | 0.021 | 19 |
| 1239089 | Soil | 1.3 | 28.3 | 13.5 | 52 | 0.1 | 22.0 | 11.4 | 277 | 2.88 | 9.3 | 5.1 | 5.2 | 25 | <0.1 | 0.8 | 0.2 | 81 | 0.24 | 0.028 | 15 |
| 1239090 | Soil | 1.2 | 64.1 | 26.1 | 77 | 0.1 | 77.3 | 22.3 | 369 | 4.16 | 8.0 | 2.5 | 17.3 | 32 | <0.1 | 1.1 | 0.3 | 63 | 0.22 | 0.055 | 53 |
| 1239091 | Soil | 1.1 | 43.9 | 26.1 | 78 | 0.2 | 40.3 | 15.5 | 628 | 2.87 | 11.0 | 7.3 | 10.3 | 27 | 0.2 | 2.0 | 0.3 | 42 | 0.25 | 0.048 | 36 |
| 1239092 | Soil | 1.2 | 42.4 | 19.0 | 77 | 0.2 | 35.8 | 11.9 | 324 | 2.83 | 12.1 | 4.7 | 8.3 | 34 | 0.2 | 2.0 | 0.2 | 48 | 0.32 | 0.056 | 32 |
| 1239093 | Soil | 1.2 | 45.3 | 23.8 | 77 | 0.2 | 39.6 | 17.5 | 653 | 3.06 | 9.5 | 3.9 | 9.1 | 44 | 0.3 | 1.4 | 0.2 | 54 | 0.39 | 0.050 | 50 |
| 1239094 | Soil | 0.8 | 30.1 | 13.4 | 60 | 0.2 | 36.3 | 12.8 | 860 | 2.62 | 7.0 | 2.2 | 6.0 | 97 | 0.3 | 0.9 | 0.2 | 56 | 0.69 | 0.052 | 32 |
| 1239095 | Soil | 0.5 | 30.3 | 14.0 | 62 | 0.2 | 31.4 | 11.2 | 203 | 2.50 | 7.1 | 2.8 | 5.8 | 92 | 0.1 | 0.9 | 0.2 | 38 | 0.59 | 0.050 | 27 |
| 1239096 | Soil | 0.9 | 39.9 | 15.7 | 70 | 0.1 | 32.8 | 13.1 | 462 | 3.05 | 7.9 | 3.5 | 8.7 | 57 | 0.1 | 1.0 | 0.2 | 56 | 0.40 | 0.049 | 35 |
| 1239097 | Soil | 1.1 | 36.9 | 15.9 | 68 | 0.2 | 27.8 | 11.6 | 286 | 2.61 | 8.8 | 4.6 | 5.8 | 107 | 0.2 | 1.2 | 0.2 | 60 | 0.60 | 0.060 | 25 |
| 1239098 | Soil | 1.0 | 46.3 | 16.4 | 62 | 0.1 | 30.9 | 13.9 | 291 | 2.67 | 8.3 | 7.2 | 6.6 | 101 | 0.1 | 1.3 | 0.2 | 60 | 0.66 | 0.063 | 26 |
| 1239099 | Soil | 1.1 | 41.6 | 15.6 | 48 | 0.2 | 30.8 | 11.9 | 297 | 2.79 | 9.8 | 8.5 | 5.0 | 74 | 0.1 | 1.2 | 0.2 | 47 | 0.61 | 0.054 | 25 |
| 1239100 | Soil | 0.7 | 27.4 | 17.8 | 61 | 0.1 | 22.3 | 9.1 | 234 | 2.10 | 8.4 | 2.5 | 6.6 | 20 | <0.1 | 1.7 | 0.2 | 34 | 0.24 | 0.037 | 26 |
| 1239101 | Soil | 1.4 | 31.4 | 12.6 | 80 | 0.1 | 28.9 | 9.8 | 321 | 2.50 | 15.1 | 1.6 | 5.8 | 26 | 0.3 | 1.6 | 0.2 | 43 | 0.36 | 0.071 | 17 |
| 1239102 | Soil | 1.0 | 36.1 | 20.9 | 87 | 0.2 | 29.5 | 11.3 | 337 | 2.63 | 17.8 | 3.2 | 7.7 | 29 | 0.3 | 2.8 | 0.2 | 43 | 0.40 | 0.055 | 24 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239073 | Soil | 24 | 0.23 | 200 | 0.011 | <1 | 1.19 | 0.004 | 0.08 | 0.6 | 0.03 | 2.3 | 0.2 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1239074 | Soil | 20 | 0.27 | 215 | 0.022 | <1 | 0.90 | 0.004 | 0.05 | 0.4 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239075 | Soil | 21 | 0.28 | 190 | 0.026 | <1 | 0.91 | 0.004 | 0.04 | 0.3 | 0.02 | 2.5 | <0.1 | <0.05 | 3 | 0.5 | 1 | <0.2 |
| 1239076 | Soil | 23 | 0.33 | 303 | 0.031 | <1 | 0.97 | 0.005 | 0.04 | 0.3 | 0.04 | 3.3 | <0.1 | <0.05 | 3 | 0.6 | 1 | <0.2 |
| 1239077 | Soil | 22 | 0.26 | 174 | 0.020 | <1 | 0.99 | 0.004 | 0.04 | 0.3 | 0.02 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239078 | Soil | 25 | 0.26 | 54 | 0.034 | 1 | 0.86 | 0.005 | 0.04 | 0.3 | 0.02 | 1.8 | 0.1 | <0.05 | 4 | <0.5 | 4 | <0.2 |
| 1239079 | Soil | 26 | 0.37 | 205 | 0.038 | <1 | 1.30 | 0.006 | 0.04 | 0.2 | 0.04 | 3.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239080 | Soil | 29 | 0.37 | 250 | 0.040 | <1 | 1.21 | 0.007 | 0.04 | 0.2 | 0.03 | 3.7 | <0.1 | <0.05 | 4 | 0.5 | <1 | <0.2 |
| 1239081 | Soil | 23 | 0.28 | 145 | 0.023 | <1 | 1.27 | 0.004 | 0.04 | 0.3 | 0.02 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239082 | Soil | 19 | 0.29 | 245 | 0.024 | <1 | 0.81 | 0.007 | 0.04 | 0.5 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1239083 | Soil | 18 | 0.30 | 273 | 0.014 | 2 | 0.90 | 0.007 | 0.04 | 0.3 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | 1.2 | <1 | <0.2 |
| 1239084 | Soil | 25 | 0.33 | 126 | 0.026 | <1 | 1.36 | 0.004 | 0.04 | 0.2 | 0.02 | 2.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239085 | Soil | 34 | 0.45 | 149 | 0.028 | <1 | 1.33 | 0.005 | 0.05 | 0.2 | 0.02 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239086 | Soil | 30 | 0.43 | 259 | 0.044 | 1 | 1.26 | 0.007 | 0.06 | 0.2 | 0.03 | 3.9 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239087 | Soil | 28 | 0.39 | 196 | 0.038 | <1 | 1.22 | 0.006 | 0.07 | 0.2 | 0.01 | 2.6 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239088 | Soil | 40 | 0.60 | 235 | 0.086 | <1 | 1.57 | 0.009 | 0.06 | 0.2 | 0.01 | 4.1 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239089 | Soil | 34 | 0.48 | 206 | 0.036 | <1 | 1.50 | 0.005 | 0.06 | 0.2 | 0.02 | 2.7 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239090 | Soil | 128 | 1.00 | 83 | 0.028 | <1 | 1.58 | 0.004 | 0.06 | <0.1 | 0.03 | 5.2 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239091 | Soil | 47 | 0.55 | 169 | 0.034 | <1 | 1.14 | 0.006 | 0.08 | 0.1 | 0.06 | 3.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239092 | Soil | 41 | 0.51 | 237 | 0.034 | <1 | 1.11 | 0.009 | 0.08 | 0.2 | 0.06 | 3.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239093 | Soil | 52 | 0.55 | 352 | 0.027 | <1 | 1.42 | 0.007 | 0.09 | <0.1 | 0.05 | 4.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239094 | Soil | 46 | 0.53 | 381 | 0.022 | <1 | 1.22 | 0.007 | 0.06 | 0.2 | 0.05 | 3.5 | <0.1 | <0.05 | 3 | 1.1 | <1 | <0.2 |
| 1239095 | Soil | 34 | 0.48 | 187 | 0.015 | <1 | 1.19 | 0.008 | 0.06 | 0.2 | 0.06 | 3.1 | <0.1 | 0.08 | 3 | 1.4 | <1 | <0.2 |
| 1239096 | Soil | 34 | 0.57 | 323 | 0.021 | <1 | 1.37 | 0.007 | 0.06 | 0.1 | 0.03 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239097 | Soil | 31 | 0.50 | 275 | 0.035 | <1 | 1.23 | 0.008 | 0.09 | 0.2 | 0.05 | 3.5 | 0.1 | 0.07 | 4 | 0.9 | <1 | <0.2 |
| 1239098 | Soil | 41 | 0.58 | 144 | 0.049 | 1 | 1.13 | 0.009 | 0.09 | 0.1 | 0.05 | 3.9 | 0.1 | 0.08 | 4 | 0.7 | <1 | <0.2 |
| 1239099 | Soil | 38 | 0.48 | 207 | 0.026 | <1 | 1.07 | 0.007 | 0.08 | 0.2 | 0.06 | 3.4 | <0.1 | 0.07 | 3 | 1.7 | <1 | <0.2 |
| 1239100 | Soil | 26 | 0.35 | 191 | 0.017 | <1 | 0.97 | 0.007 | 0.06 | 0.2 | 0.06 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239101 | Soil | 28 | 0.40 | 201 | 0.040 | 1 | 0.99 | 0.014 | 0.08 | 0.3 | 0.03 | 3.6 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239102 | Soil | 27 | 0.39 | 216 | 0.042 | 1 | 1.14 | 0.013 | 0.09 | 0.3 | 0.08 | 3.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239103 | Soil | 1.1 | 45.8 | 24.8 | 82 | 0.2 | 37.8 | 14.5 | 445 | 3.25 | 17.3 | 4.9 | 11.0 | 28 | 0.1 | 5.0 | 0.3 | 41 | 0.33 | 0.054 | 33 |
| 1239104 | Soil | 0.8 | 28.3 | 11.4 | 45 | 0.1 | 21.7 | 7.8 | 256 | 2.00 | 12.2 | 8.8 | 4.9 | 30 | <0.1 | 1.3 | 0.2 | 38 | 0.33 | 0.054 | 19 |
| 1239105 | Soil | 1.1 | 24.9 | 12.2 | 60 | <0.1 | 27.9 | 9.5 | 308 | 2.29 | 16.9 | 4.4 | 5.1 | 26 | <0.1 | 1.4 | 0.2 | 49 | 0.27 | 0.028 | 11 |
| 1239106 | Soil | 0.8 | 25.7 | 16.9 | 55 | <0.1 | 23.6 | 9.2 | 446 | 2.33 | 14.4 | 3.1 | 4.9 | 39 | 0.1 | 2.3 | 0.2 | 36 | 0.48 | 0.059 | 24 |
| 1239107 | Soil | 0.9 | 24.6 | 9.1 | 51 | <0.1 | 19.3 | 7.7 | 233 | 2.00 | 11.9 | 3.4 | 4.2 | 21 | <0.1 | 0.9 | 0.1 | 44 | 0.33 | 0.058 | 17 |
| 1239108 | Soil | 1.9 | 44.1 | 27.1 | 91 | 0.5 | 52.2 | 14.3 | 310 | 3.46 | 72.8 | 2.4 | 7.8 | 12 | 0.4 | 3.2 | 0.4 | 59 | 0.13 | 0.051 | 18 |
| 1239109 | Soil | 0.4 | 21.7 | 11.7 | 53 | <0.1 | 20.3 | 7.0 | 203 | 1.89 | 32.2 | 9.2 | 6.5 | 9 | <0.1 | 3.2 | 0.2 | 23 | 0.08 | 0.026 | 22 |
| 1239110 | Soil | 0.7 | 26.6 | 19.4 | 62 | <0.1 | 23.7 | 9.5 | 226 | 2.15 | 67.3 | 34.5 | 6.0 | 12 | 0.1 | 4.3 | 0.2 | 26 | 0.16 | 0.036 | 21 |
| 1239111 | Soil | 0.9 | 29.0 | 18.3 | 58 | 0.2 | 25.0 | 10.0 | 189 | 2.11 | 51.3 | 8.5 | 5.5 | 26 | <0.1 | 3.3 | 0.3 | 31 | 0.36 | 0.040 | 19 |
| 1239112 | Soil | 0.6 | 26.7 | 16.2 | 66 | 0.1 | 24.1 | 9.6 | 350 | 2.16 | 27.8 | 2.9 | 6.0 | 35 | 0.2 | 1.8 | 0.2 | 25 | 0.57 | 0.057 | 18 |
| 1239113 | Soil | 0.9 | 29.3 | 19.0 | 64 | <0.1 | 23.9 | 9.5 | 316 | 2.21 | 37.0 | 4.9 | 7.2 | 16 | 0.2 | 2.5 | 0.2 | 24 | 0.25 | 0.051 | 24 |
| 1239114 | Soil | 0.7 | 28.4 | 17.6 | 65 | 0.1 | 23.0 | 8.7 | 313 | 2.22 | 31.0 | 70.2 | 7.6 | 18 | 0.1 | 1.7 | 0.2 | 26 | 0.27 | 0.062 | 23 |
| 1239115 | Soil | 0.8 | 25.6 | 16.1 | 60 | 0.2 | 19.4 | 8.2 | 261 | 2.18 | 19.1 | 4.5 | 7.9 | 30 | 0.2 | 1.1 | 0.2 | 24 | 0.50 | 0.054 | 27 |
| 1239116 | Soil | 0.6 | 34.6 | 17.9 | 56 | 0.1 | 28.2 | 10.4 | 314 | 2.33 | 5.5 | 3.1 | 4.8 | 128 | <0.1 | 3.0 | 0.2 | 15 | 1.90 | 0.052 | 22 |
| 1239117 | Soil | 1.2 | 38.0 | 21.9 | 84 | <0.1 | 40.8 | 16.5 | 408 | 3.41 | 10.3 | 1.8 | 13.5 | 32 | <0.1 | 3.4 | 0.2 | 21 | 0.43 | 0.030 | 34 |
| 1239118 | Soil | 0.8 | 44.2 | 20.0 | 81 | <0.1 | 39.8 | 14.5 | 358 | 3.40 | 9.1 | 2.1 | 11.0 | 47 | 0.1 | 2.8 | 0.2 | 27 | 0.67 | 0.049 | 32 |
| 1239119 | Soil | 0.7 | 41.1 | 17.9 | 76 | 0.1 | 36.5 | 14.6 | 346 | 3.38 | 8.2 | 1.9 | 11.9 | 43 | <0.1 | 3.6 | 0.2 | 22 | 0.63 | 0.057 | 36 |
| 1239120 | Soil | 0.8 | 33.8 | 16.2 | 68 | 0.2 | 27.2 | 10.5 | 409 | 2.25 | 23.1 | 4.0 | 6.5 | 25 | 0.3 | 2.0 | 0.2 | 26 | 0.47 | 0.061 | 20 |
| 1239121 | Soil | 0.8 | 32.2 | 19.7 | 76 | 0.2 | 28.0 | 13.1 | 587 | 2.65 | 28.6 | 3.5 | 10.0 | 23 | 0.3 | 2.5 | 0.3 | 21 | 0.59 | 0.059 | 28 |
| 1239122 | Soil | 0.7 | 32.5 | 21.4 | 66 | 0.1 | 29.9 | 12.3 | 537 | 2.66 | 29.1 | 6.1 | 11.4 | 19 | 0.2 | 4.8 | 0.3 | 23 | 0.33 | 0.046 | 33 |
| 1239123 | Soil | 0.3 | 7.4 | 5.6 | 36 | <0.1 | 8.4 | 3.8 | 150 | 1.06 | 6.4 | 27.6 | 2.9 | 21 | 0.1 | 0.5 | 0.1 | 25 | 0.36 | 0.052 | 12 |
| 1239124 | Soil | 1.0 | 28.6 | 18.1 | 66 | 0.1 | 25.3 | 10.6 | 342 | 2.27 | 32.3 | 3.5 | 8.8 | 34 | 0.3 | 3.8 | 0.3 | 25 | 0.96 | 0.061 | 23 |
| 1239125 | Soil | 1.0 | 41.5 | 27.7 | 77 | 0.2 | 35.4 | 15.6 | 524 | 3.52 | 29.0 | 2.5 | 12.7 | 36 | 0.2 | 5.9 | 0.4 | 29 | 0.85 | 0.055 | 35 |
| 1239126 | Soil | 0.8 | 13.0 | 6.6 | 46 | <0.1 | 14.0 | 7.3 | 396 | 1.58 | 10.5 | 1.2 | 2.4 | 19 | <0.1 | 0.6 | 0.1 | 30 | 0.35 | 0.069 | 9 |
| 1239127 | Soil | 0.9 | 26.5 | 7.7 | 54 | <0.1 | 18.7 | 7.0 | 121 | 1.94 | 18.0 | 13.1 | 4.1 | 17 | <0.1 | 0.9 | 0.1 | 31 | 0.27 | 0.065 | 13 |
| 1239128 | Soil | 0.7 | 20.2 | 8.4 | 51 | <0.1 | 16.3 | 6.8 | 240 | 1.69 | 11.6 | 1.0 | 4.0 | 17 | <0.1 | 1.2 | 0.1 | 31 | 0.23 | 0.066 | 14 |
| 1239129 | Soil | 0.9 | 41.4 | 34.0 | 97 | 0.1 | 34.6 | 13.2 | 429 | 3.17 | 37.8 | 3.8 | 12.0 | 23 | 0.3 | 8.0 | 0.4 | 36 | 0.34 | 0.061 | 35 |
| 1239130 | Soil | 0.6 | 24.3 | 15.0 | 60 | <0.1 | 21.7 | 7.6 | 260 | 2.26 | 20.8 | 4.8 | 7.9 | 21 | 0.1 | 2.8 | 0.2 | 30 | 0.32 | 0.066 | 29 |
| 1239131 | Soil | 0.9 | 43.5 | 35.3 | 97 | 0.2 | 38.1 | 15.3 | 484 | 3.19 | 32.4 | 9.0 | 12.4 | 23 | 0.3 | 8.1 | 0.4 | 34 | 0.29 | 0.059 | 37 |
| 1239132 | Soil | 0.9 | 30.0 | 18.6 | 71 | 0.2 | 26.2 | 9.9 | 329 | 2.35 | 23.2 | 2.8 | 8.2 | 22 | 0.2 | 3.6 | 0.2 | 31 | 0.31 | 0.066 | 26 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239103 | Soil | 38 | 0.44 | 117 | 0.025 | <1 | 1.03 | 0.007 | 0.10 | 0.2 | 0.12 | 3.9 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239104 | Soil | 23 | 0.32 | 248 | 0.020 | <1 | 0.93 | 0.006 | 0.04 | 0.3 | 0.06 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239105 | Soil | 25 | 0.36 | 233 | 0.058 | <1 | 1.42 | 0.009 | 0.05 | 0.4 | 0.03 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239106 | Soil | 27 | 0.36 | 188 | 0.015 | <1 | 1.00 | 0.007 | 0.07 | 0.3 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239107 | Soil | 23 | 0.37 | 278 | 0.029 | <1 | 1.00 | 0.010 | 0.04 | 0.3 | 0.03 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239108 | Soil | 44 | 0.68 | 300 | 0.068 | <1 | 2.55 | 0.013 | 0.11 | 1.0 | 0.04 | 4.3 | 0.3 | <0.05 | 7 | 0.6 | <1 | <0.2 |
| 1239109 | Soil | 17 | 0.30 | 97 | 0.025 | <1 | 0.78 | 0.006 | 0.04 | 0.8 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239110 | Soil | 19 | 0.30 | 81 | 0.014 | <1 | 0.94 | 0.006 | 0.04 | 1.2 | 0.01 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239111 | Soil | 21 | 0.36 | 145 | 0.020 | <1 | 0.99 | 0.013 | 0.05 | 1.0 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1239112 | Soil | 15 | 0.37 | 152 | 0.015 | 1 | 0.69 | 0.008 | 0.05 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239113 | Soil | 16 | 0.30 | 123 | 0.015 | <1 | 0.75 | 0.009 | 0.06 | 0.4 | 0.03 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239114 | Soil | 17 | 0.32 | 140 | 0.017 | <1 | 0.81 | 0.009 | 0.04 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239115 | Soil | 15 | 0.36 | 178 | 0.010 | <1 | 0.81 | 0.007 | 0.06 | 0.3 | 0.04 | 1.6 | <0.1 | 0.06 | 2 | <0.5 | <1 | <0.2 |
| 1239116 | Soil | 15 | 0.36 | 127 | 0.003 | 3 | 0.83 | 0.007 | 0.08 | <0.1 | 0.06 | 1.4 | <0.1 | 0.06 | 2 | <0.5 | <1 | <0.2 |
| 1239117 | Soil | 19 | 0.36 | 108 | 0.003 | 2 | 0.95 | 0.007 | 0.11 | <0.1 | 0.04 | 2.9 | 0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239118 | Soil | 24 | 0.54 | 119 | 0.005 | 1 | 1.21 | 0.007 | 0.10 | <0.1 | 0.04 | 2.8 | <0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1239119 | Soil | 19 | 0.47 | 106 | 0.004 | 2 | 1.05 | 0.005 | 0.09 | <0.1 | 0.05 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239120 | Soil | 17 | 0.33 | 180 | 0.016 | <1 | 0.74 | 0.007 | 0.05 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | 0.6 | <1 | <0.2 |
| 1239121 | Soil | 16 | 0.37 | 132 | 0.017 | 1 | 0.79 | 0.010 | 0.08 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239122 | Soil | 18 | 0.36 | 107 | 0.014 | 2 | 0.95 | 0.007 | 0.12 | 0.3 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239123 | Soil | 11 | 0.25 | 117 | 0.016 | 1 | 0.49 | 0.006 | 0.02 | 0.8 | 0.04 | 1.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239124 | Soil | 17 | 0.44 | 142 | 0.024 | 2 | 0.72 | 0.011 | 0.08 | 0.7 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239125 | Soil | 21 | 0.40 | 152 | 0.012 | 3 | 1.07 | 0.010 | 0.20 | 0.4 | 0.04 | 3.3 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239126 | Soil | 14 | 0.26 | 182 | 0.017 | 1 | 0.59 | 0.007 | 0.02 | 0.1 | 0.02 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239127 | Soil | 15 | 0.27 | 159 | 0.027 | 1 | 0.59 | 0.008 | 0.03 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239128 | Soil | 17 | 0.28 | 164 | 0.027 | 1 | 0.66 | 0.007 | 0.03 | 0.3 | 0.02 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239129 | Soil | 30 | 0.46 | 133 | 0.025 | 2 | 1.17 | 0.011 | 0.14 | 0.4 | 0.07 | 3.2 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239130 | Soil | 20 | 0.37 | 160 | 0.020 | 1 | 0.95 | 0.008 | 0.06 | 0.5 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239131 | Soil | 32 | 0.44 | 144 | 0.021 | 1 | 1.12 | 0.010 | 0.11 | 0.3 | 0.05 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239132 | Soil | 22 | 0.37 | 168 | 0.025 | 1 | 0.96 | 0.012 | 0.07 | 0.4 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239133 | Soil | 0.8 | 32.9 | 22.4 | 77 | <0.1 | 28.8 | 12.1 | 454 | 2.66 | 24.3 | 13.8 | 8.6 | 27 | 0.2 | 4.4 | 0.3 | 41 | 0.41 | 0.056 | 28 |
| 1239134 | Soil | 1.1 | 25.8 | 16.1 | 56 | <0.1 | 24.2 | 8.1 | 290 | 2.06 | 19.0 | 6.2 | 6.4 | 19 | <0.1 | 3.1 | 0.2 | 34 | 0.27 | 0.054 | 23 |
| 1239135 | Soil | 0.7 | 29.8 | 20.6 | 62 | 0.2 | 26.2 | 11.3 | 442 | 2.28 | 22.5 | 2.3 | 6.0 | 27 | 0.3 | 3.6 | 0.2 | 33 | 0.46 | 0.060 | 25 |
| 1239136 | Soil | 0.8 | 19.9 | 8.2 | 41 | 0.1 | 16.1 | 6.4 | 191 | 1.76 | 10.5 | 1.0 | 2.5 | 22 | 0.2 | 0.8 | 0.1 | 37 | 0.37 | 0.043 | 13 |
| 1239137 | Soil | 0.9 | 11.9 | 8.1 | 34 | <0.1 | 11.2 | 4.1 | 112 | 1.49 | 9.3 | 10.6 | 3.0 | 12 | <0.1 | 0.9 | 0.1 | 35 | 0.16 | 0.037 | 14 |
| 1239138 | Soil | 0.9 | 41.5 | 26.6 | 81 | 0.2 | 32.3 | 13.1 | 417 | 3.13 | 40.2 | 3.7 | 11.8 | 18 | 0.2 | 5.8 | 0.4 | 32 | 0.21 | 0.053 | 33 |
| 1239139 | Soil | 1.3 | 41.4 | 23.1 | 88 | 0.2 | 36.2 | 14.0 | 502 | 3.16 | 41.0 | 5.1 | 11.8 | 20 | 0.3 | 6.9 | 0.3 | 35 | 0.26 | 0.065 | 33 |
| 1239140 | Soil | 0.9 | 40.6 | 34.7 | 93 | 0.2 | 34.1 | 14.2 | 476 | 3.08 | 56.4 | 4.0 | 12.6 | 30 | 0.2 | 8.2 | 0.5 | 32 | 0.59 | 0.059 | 35 |
| 1239141 | Soil | 1.0 | 34.6 | 36.5 | 79 | 0.2 | 29.5 | 12.8 | 408 | 2.74 | 36.5 | 2.8 | 11.5 | 28 | 0.3 | 10.7 | 0.5 | 28 | 0.48 | 0.061 | 32 |
| 1239142 | Soil | 0.7 | 26.6 | 24.8 | 73 | 0.2 | 24.8 | 11.2 | 331 | 2.39 | 38.9 | 5.1 | 9.8 | 27 | 0.2 | 4.3 | 0.3 | 27 | 0.51 | 0.063 | 28 |
| 1239143 | Soil | 1.0 | 29.3 | 18.5 | 58 | <0.1 | 24.4 | 8.4 | 263 | 2.42 | 9.5 | 3.2 | 4.7 | 14 | 0.2 | 3.5 | 0.2 | 45 | 0.13 | 0.033 | 23 |
| 1239251 | Soil | 0.8 | 32.3 | 27.5 | 74 | 0.2 | 29.1 | 12.7 | 383 | 2.59 | 40.0 | 2.3 | 10.1 | 27 | 0.2 | 5.5 | 0.3 | 25 | 0.50 | 0.057 | 28 |
| 1239252 | Soil | 1.5 | 39.3 | 40.5 | 79 | 0.1 | 34.9 | 13.4 | 379 | 2.90 | 16.1 | 3.7 | 7.9 | 14 | 0.2 | 6.6 | 0.2 | 52 | 0.07 | 0.030 | 27 |
| 1239253 | Soil | 1.0 | 26.0 | 14.5 | 58 | <0.1 | 24.2 | 8.5 | 243 | 2.34 | 7.6 | 2.7 | 6.6 | 12 | <0.1 | 2.0 | 0.2 | 43 | 0.10 | 0.021 | 23 |
| 1239254 | Soil | 1.0 | 17.8 | 12.4 | 46 | <0.1 | 15.9 | 5.3 | 146 | 1.93 | 7.5 | 1.7 | 1.6 | 9 | <0.1 | 1.0 | 0.2 | 40 | 0.09 | 0.034 | 19 |
| 1239255 | Soil | 0.9 | 29.3 | 33.3 | 72 | 0.1 | 23.4 | 8.8 | 261 | 2.48 | 12.4 | 5.5 | 8.0 | 10 | 0.2 | 5.6 | 0.2 | 32 | 0.07 | 0.033 | 29 |
| 1239256 | Soil | 1.0 | 19.4 | 38.7 | 51 | 0.2 | 17.0 | 6.9 | 186 | 2.37 | 14.9 | 2.0 | 3.1 | 11 | 0.2 | 4.1 | 0.2 | 40 | 0.09 | 0.027 | 21 |
| 1239257 | Soil | 1.0 | 34.3 | 69.2 | 70 | 0.6 | 33.6 | 11.0 | 337 | 2.66 | 14.9 | 4.2 | 7.0 | 14 | 0.2 | 6.5 | 0.2 | 37 | 0.09 | 0.035 | 31 |
| 1239258 | Soil | 0.8 | 23.2 | 19.0 | 53 | 0.1 | 16.3 | 7.6 | 215 | 2.18 | 11.9 | 1.8 | 5.7 | 9 | 0.2 | 2.5 | 0.2 | 38 | 0.07 | 0.022 | 23 |
| 1239259 | Soil | 0.9 | 24.4 | 28.5 | 55 | 0.2 | 20.0 | 8.0 | 214 | 2.41 | 13.4 | 3.3 | 8.8 | 8 | 0.2 | 4.1 | 0.2 | 32 | 0.05 | 0.022 | 28 |
| 1239260 | Soil | 1.0 | 29.7 | 23.2 | 59 | 0.1 | 22.4 | 10.6 | 277 | 2.52 | 10.8 | 9.9 | 7.7 | 8 | 0.2 | 3.5 | 0.2 | 35 | 0.05 | 0.024 | 26 |
| 1239261 | Soil | 1.1 | 35.3 | 23.1 | 65 | 0.1 | 26.5 | 11.0 | 341 | 2.57 | 11.7 | 5.9 | 7.6 | 11 | 0.1 | 3.8 | 0.2 | 36 | 0.07 | 0.024 | 33 |
| 1239262 | Soil | 1.0 | 21.2 | 42.1 | 60 | 0.7 | 19.0 | 8.6 | 625 | 2.18 | 10.9 | 1.3 | 3.8 | 23 | 0.6 | 3.7 | 0.2 | 40 | 0.19 | 0.058 | 35 |
| 1239263 | Soil | 0.8 | 37.7 | 45.6 | 94 | 0.3 | 34.3 | 13.5 | 338 | 2.99 | 25.3 | 3.3 | 12.0 | 14 | 0.5 | 11.3 | 0.4 | 23 | 0.08 | 0.033 | 40 |
| 1239264 | Soil | 0.9 | 33.3 | 50.3 | 92 | 0.3 | 27.0 | 11.4 | 373 | 2.76 | 26.1 | 3.5 | 9.2 | 17 | 0.8 | 15.2 | 0.5 | 22 | 0.13 | 0.047 | 33 |
| 1239265 | Soil | 0.7 | 27.5 | 32.9 | 61 | 0.2 | 20.4 | 8.7 | 220 | 2.41 | 24.5 | 3.3 | 6.8 | 9 | 0.3 | 7.4 | 0.4 | 24 | 0.04 | 0.021 | 33 |
| 1239266 | Soil | 0.8 | 32.3 | 40.4 | 83 | 0.3 | 24.2 | 11.4 | 411 | 2.76 | 25.7 | 3.0 | 6.1 | 15 | 0.6 | 10.3 | 0.5 | 21 | 0.09 | 0.041 | 35 |
| 1239267 | Soil | 0.8 | 41.5 | 48.5 | 92 | 0.3 | 29.6 | 12.3 | 467 | 3.07 | 32.5 | 3.6 | 7.1 | 20 | 0.4 | 12.9 | 0.6 | 24 | 0.19 | 0.051 | 38 |
| 1239268 | Soil | 0.7 | 32.9 | 34.7 | 81 | 0.2 | 24.3 | 10.3 | 333 | 2.87 | 27.7 | 14.7 | 9.9 | 13 | 0.2 | 9.1 | 0.5 | 24 | 0.10 | 0.037 | 35 |
| 1239269 | Soil | 0.6 | 28.5 | 26.6 | 70 | <0.1 | 23.3 | 9.5 | 240 | 2.59 | 33.2 | 4.2 | 7.6 | 15 | 0.1 | 7.7 | 0.5 | 25 | 0.12 | 0.046 | 33 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239133 | Soil | 28 | 0.42 | 229 | 0.032 | 1 | 1.18 | 0.013 | 0.09 | 0.4 | 0.04 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239134 | Soil | 24 | 0.32 | 191 | 0.025 | 1 | 0.88 | 0.007 | 0.05 | 0.4 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239135 | Soil | 22 | 0.35 | 205 | 0.015 | 1 | 1.03 | 0.009 | 0.08 | 0.4 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239136 | Soil | 17 | 0.26 | 263 | 0.017 | 1 | 0.83 | 0.008 | 0.03 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239137 | Soil | 16 | 0.23 | 192 | 0.019 | <1 | 0.83 | 0.005 | 0.03 | 0.3 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239138 | Soil | 23 | 0.37 | 176 | 0.019 | 2 | 1.15 | 0.009 | 0.14 | 0.5 | 0.04 | 3.3 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239139 | Soil | 26 | 0.44 | 169 | 0.023 | 4 | 1.30 | 0.016 | 0.18 | 1.0 | 0.04 | 3.5 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239140 | Soil | 27 | 0.46 | 109 | 0.022 | 2 | 1.04 | 0.012 | 0.16 | 0.6 | 0.06 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239141 | Soil | 21 | 0.36 | 151 | 0.023 | 1 | 0.84 | 0.010 | 0.10 | 0.5 | 0.06 | 2.1 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239142 | Soil | 17 | 0.36 | 101 | 0.020 | 1 | 0.70 | 0.008 | 0.07 | 0.4 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239143 | Soil | 28 | 0.36 | 240 | 0.029 | <1 | 1.11 | 0.009 | 0.06 | 0.3 | 0.06 | 3.3 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239251 | Soil | 18 | 0.37 | 101 | 0.019 | 1 | 0.73 | 0.009 | 0.09 | 0.5 | 0.04 | 2.0 | <0.1 | 0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239252 | Soil | 32 | 0.34 | 197 | 0.044 | <1 | 1.34 | 0.009 | 0.08 | 0.4 | 0.12 | 5.3 | 0.5 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239253 | Soil | 26 | 0.35 | 187 | 0.032 | <1 | 1.06 | 0.008 | 0.06 | 0.3 | 0.04 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239254 | Soil | 21 | 0.28 | 136 | 0.020 | <1 | 0.98 | 0.005 | 0.05 | 0.4 | 0.03 | 1.5 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239255 | Soil | 20 | 0.21 | 110 | 0.020 | <1 | 0.82 | 0.006 | 0.07 | 0.5 | 0.06 | 2.2 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239256 | Soil | 26 | 0.25 | 144 | 0.014 | <1 | 1.15 | 0.005 | 0.06 | 0.4 | 0.04 | 1.9 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239257 | Soil | 29 | 0.25 | 185 | 0.017 | <1 | 0.89 | 0.006 | 0.08 | 0.8 | 0.18 | 3.5 | 0.4 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239258 | Soil | 24 | 0.29 | 174 | 0.022 | <1 | 1.10 | 0.005 | 0.05 | 0.3 | 0.05 | 3.1 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239259 | Soil | 23 | 0.23 | 103 | 0.015 | <1 | 0.98 | 0.004 | 0.07 | 0.6 | 0.07 | 2.4 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239260 | Soil | 22 | 0.29 | 126 | 0.019 | <1 | 1.06 | 0.005 | 0.07 | 0.5 | 0.03 | 2.6 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239261 | Soil | 24 | 0.29 | 226 | 0.024 | <1 | 1.06 | 0.007 | 0.08 | 0.6 | 0.06 | 3.0 | 0.2 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239262 | Soil | 21 | 0.29 | 229 | 0.022 | <1 | 1.09 | 0.006 | 0.10 | 0.3 | 0.04 | 2.2 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239263 | Soil | 25 | 0.24 | 64 | 0.009 | <1 | 0.68 | 0.004 | 0.10 | 0.5 | 0.06 | 2.2 | 0.2 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239264 | Soil | 18 | 0.29 | 104 | 0.015 | 1 | 0.70 | 0.006 | 0.12 | 0.7 | 0.09 | 2.2 | 0.2 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239265 | Soil | 19 | 0.27 | 95 | 0.010 | 1 | 0.94 | 0.004 | 0.07 | 0.4 | 0.06 | 2.0 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239266 | Soil | 18 | 0.24 | 119 | 0.011 | 1 | 0.76 | 0.004 | 0.10 | 0.6 | 0.10 | 1.8 | 0.2 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239267 | Soil | 19 | 0.28 | 150 | 0.009 | 2 | 0.87 | 0.005 | 0.12 | 0.7 | 0.10 | 2.3 | 0.2 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239268 | Soil | 19 | 0.27 | 117 | 0.012 | <1 | 0.81 | 0.006 | 0.11 | 0.7 | 0.08 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239269 | Soil | 20 | 0.31 | 114 | 0.019 | <1 | 0.83 | 0.005 | 0.06 | 0.2 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239270 | Soil | 0.9 | 17.3 | 21.4 | 58 | <0.1 | 23.7 | 8.9 | 176 | 2.43 | 26.4 | 3.3 | 6.1 | 16 | <0.1 | 3.4 | 0.4 | 39 | 0.15 | 0.017 | 19 |
| 1239271 | Soil | 0.7 | 26.7 | 32.5 | 67 | 0.2 | 24.3 | 12.5 | 484 | 2.68 | 38.2 | 3.0 | 7.1 | 18 | <0.1 | 7.1 | 0.6 | 29 | 0.14 | 0.035 | 32 |
| 1239272 | Soil | 0.8 | 19.8 | 11.9 | 44 | <0.1 | 16.7 | 6.5 | 188 | 2.35 | 8.8 | 2.8 | 6.4 | 9 | <0.1 | 3.0 | 0.1 | 40 | 0.04 | 0.017 | 21 |
| 1239273 | Soil | 1.0 | 19.3 | 14.2 | 50 | <0.1 | 20.0 | 8.8 | 273 | 2.84 | 13.7 | 2.3 | 6.1 | 7 | <0.1 | 3.5 | 0.2 | 40 | 0.04 | 0.020 | 15 |
| 1239274 | Soil | 1.0 | 31.1 | 12.2 | 63 | <0.1 | 21.9 | 10.2 | 377 | 2.64 | 13.7 | 5.0 | 5.9 | 13 | <0.1 | 2.4 | 0.2 | 46 | 0.09 | 0.029 | 19 |
| 1239275 | Soil | 1.0 | 33.4 | 13.6 | 65 | <0.1 | 28.0 | 12.3 | 505 | 2.79 | 9.5 | 5.4 | 7.0 | 19 | <0.1 | 6.2 | 0.2 | 40 | 0.16 | 0.029 | 22 |
| 1239276 | Soil | 0.7 | 27.4 | 12.5 | 55 | 0.1 | 21.1 | 8.5 | 353 | 2.49 | 8.8 | 2.9 | 5.3 | 10 | <0.1 | 3.6 | 0.1 | 37 | 0.07 | 0.022 | 25 |
| 1239277 | Soil | 1.0 | 17.1 | 12.9 | 53 | <0.1 | 17.1 | 6.8 | 209 | 2.60 | 10.0 | 3.3 | 5.9 | 8 | <0.1 | 1.3 | 0.1 | 43 | 0.06 | 0.025 | 18 |
| 1239278 | Soil | 0.7 | 13.8 | 12.5 | 58 | 0.2 | 14.8 | 7.7 | 828 | 2.33 | 6.7 | 2.2 | 3.2 | 12 | <0.1 | 0.6 | 0.2 | 41 | 0.10 | 0.067 | 19 |
| 1239279 | Soil | 1.2 | 14.3 | 15.7 | 61 | 0.2 | 22.3 | 9.0 | 238 | 2.80 | 17.3 | 2.1 | 4.0 | 7 | <0.1 | 1.0 | 0.2 | 48 | 0.06 | 0.034 | 13 |
| 1239280 | Soil | 0.7 | 50.7 | 14.1 | 76 | <0.1 | 37.2 | 14.9 | 401 | 3.31 | 17.8 | 4.2 | 15.5 | 11 | <0.1 | 2.4 | 0.2 | 27 | 0.05 | 0.021 | 40 |
| 1239281 | Soil | 0.9 | 33.0 | 17.5 | 42 | 0.1 | 26.3 | 11.2 | 538 | 2.49 | 12.6 | 2.5 | 6.8 | 530 | <0.1 | 0.7 | 0.2 | 18 | 7.66 | 0.059 | 21 |
| 1239282 | Soil | 1.2 | 30.3 | 14.6 | 60 | 0.1 | 28.3 | 10.6 | 449 | 2.54 | 16.5 | 3.4 | 5.5 | 22 | <0.1 | 1.4 | 0.2 | 44 | 0.34 | 0.033 | 19 |
| 1239283 | Soil | 1.1 | 29.8 | 13.8 | 63 | <0.1 | 26.0 | 9.6 | 406 | 2.60 | 10.2 | 2.3 | 5.8 | 23 | <0.1 | 1.0 | 0.2 | 43 | 0.29 | 0.027 | 23 |
| 1239284 | Soil | 1.2 | 28.6 | 15.0 | 55 | <0.1 | 27.1 | 9.8 | 436 | 2.65 | 18.2 | 4.6 | 8.1 | 26 | <0.1 | 2.9 | 0.2 | 39 | 0.29 | 0.039 | 27 |
| 1239285 | Soil | 1.1 | 30.2 | 14.1 | 60 | <0.1 | 25.4 | 9.2 | 250 | 2.56 | 9.5 | 5.9 | 9.6 | 18 | <0.1 | 1.5 | 0.2 | 35 | 0.17 | 0.031 | 33 |
| 1239286 | Soil | 1.1 | 27.5 | 13.8 | 64 | <0.1 | 25.1 | 9.8 | 252 | 2.60 | 11.7 | 2.9 | 7.9 | 15 | <0.1 | 2.1 | 0.2 | 39 | 0.17 | 0.040 | 31 |
| 1239287 | Soil | 1.3 | 31.6 | 14.8 | 75 | 0.1 | 25.6 | 9.4 | 355 | 2.32 | 30.3 | 3.3 | 6.3 | 21 | 0.1 | 2.5 | 0.2 | 34 | 0.28 | 0.069 | 19 |
| 1239288 | Soil | 1.2 | 35.5 | 18.6 | 73 | <0.1 | 28.1 | 10.9 | 460 | 2.47 | 36.8 | 5.7 | 7.8 | 13 | <0.1 | 3.4 | 0.2 | 33 | 0.14 | 0.040 | 25 |
| 1239289 | Soil | 1.2 | 50.9 | 26.7 | 89 | <0.1 | 38.8 | 14.7 | 252 | 4.11 | 9.8 | 2.3 | 16.3 | 9 | <0.1 | 1.2 | 0.4 | 27 | 0.02 | 0.025 | 42 |
| 1239290 | Soil | 0.9 | 29.7 | 13.1 | 63 | <0.1 | 26.0 | 9.7 | 356 | 2.33 | 15.5 | 3.0 | 6.6 | 18 | <0.1 | 1.3 | 0.2 | 35 | 0.21 | 0.045 | 21 |
| 1239291 | Soil | 0.9 | 35.4 | 12.9 | 61 | <0.1 | 26.5 | 11.9 | 401 | 2.72 | 14.0 | 4.2 | 6.4 | 14 | <0.1 | 1.1 | 0.2 | 54 | 0.12 | 0.026 | 21 |
| 1239292 | Soil | 1.1 | 25.5 | 14.5 | 56 | <0.1 | 22.1 | 9.4 | 252 | 2.43 | 21.9 | 2.7 | 6.1 | 10 | <0.1 | 1.6 | 0.2 | 42 | 0.10 | 0.016 | 20 |
| 1239293 | Soil | 1.0 | 32.4 | 18.0 | 60 | 0.1 | 29.4 | 10.0 | 290 | 2.79 | 26.9 | 6.4 | 8.4 | 11 | <0.1 | 2.8 | 0.2 | 37 | 0.14 | 0.020 | 27 |
| 1239294 | Soil | 1.6 | 38.3 | 19.0 | 70 | <0.1 | 32.3 | 14.6 | 266 | 3.46 | 24.9 | 5.4 | 10.0 | 10 | <0.1 | 2.2 | 0.3 | 54 | 0.07 | 0.017 | 27 |
| 1239295 | Soil | 1.1 | 37.5 | 17.2 | 70 | <0.1 | 41.1 | 15.0 | 371 | 3.94 | 22.1 | 3.0 | 10.8 | 8 | <0.1 | 1.6 | 0.3 | 39 | 0.06 | 0.031 | 34 |
| 1239296 | Soil | 1.1 | 37.9 | 18.5 | 82 | 0.3 | 32.0 | 11.9 | 422 | 2.79 | 42.5 | 7.4 | 8.3 | 21 | 0.2 | 2.5 | 0.3 | 33 | 0.30 | 0.065 | 24 |
| 1239297 | Soil | 1.2 | 35.5 | 22.4 | 81 | 0.2 | 30.7 | 11.2 | 377 | 2.65 | 43.0 | 22.5 | 8.6 | 27 | 0.1 | 3.6 | 0.4 | 39 | 0.44 | 0.046 | 26 |
| 1239298 | Soil | 1.2 | 40.8 | 21.7 | 92 | 0.2 | 32.9 | 12.1 | 406 | 2.90 | 53.4 | 6.6 | 9.0 | 24 | 0.2 | 4.1 | 0.3 | 40 | 0.38 | 0.064 | 25 |
| 1239299 | Soil | 1.2 | 26.9 | 18.5 | 63 | 0.1 | 27.8 | 12.5 | 403 | 2.76 | 27.3 | 4.5 | 10.4 | 16 | <0.1 | 1.9 | 0.2 | 39 | 0.26 | 0.028 | 27 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239270 | Soil | 25 | 0.34 | 209 | 0.013 | <1 | 1.32 | 0.005 | 0.07 | 0.2 | 0.01 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239271 | Soil | 24 | 0.39 | 180 | 0.015 | 1 | 1.10 | 0.006 | 0.09 | 0.2 | 0.05 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239272 | Soil | 26 | 0.31 | 134 | 0.020 | <1 | 1.35 | 0.005 | 0.06 | 0.1 | 0.03 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239273 | Soil | 26 | 0.35 | 118 | 0.020 | <1 | 1.35 | 0.005 | 0.05 | 0.1 | 0.02 | 2.2 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239274 | Soil | 28 | 0.44 | 243 | 0.041 | 1 | 1.27 | 0.008 | 0.05 | 0.2 | 0.06 | 5.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239275 | Soil | 23 | 0.40 | 354 | 0.034 | <1 | 1.09 | 0.010 | 0.07 | 0.2 | 0.04 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239276 | Soil | 25 | 0.34 | 183 | 0.024 | 1 | 1.21 | 0.006 | 0.07 | 0.2 | 0.05 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239277 | Soil | 27 | 0.38 | 124 | 0.020 | 1 | 1.54 | 0.006 | 0.07 | 0.2 | 0.02 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239278 | Soil | 19 | 0.29 | 195 | 0.016 | <1 | 1.16 | 0.006 | 0.08 | 0.1 | 0.01 | 1.5 | <0.1 | 0.06 | 4 | <0.5 | <1 | <0.2 |
| 1239279 | Soil | 30 | 0.38 | 107 | 0.032 | 1 | 1.70 | 0.005 | 0.06 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239280 | Soil | 25 | 0.64 | 159 | 0.031 | <1 | 1.46 | 0.005 | 0.06 | 0.4 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239281 | Soil | 13 | 0.28 | 172 | 0.012 | <1 | 0.70 | 0.006 | 0.05 | 0.1 | 0.04 | 4.3 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239282 | Soil | 28 | 0.40 | 397 | 0.035 | 1 | 1.26 | 0.013 | 0.06 | 0.2 | 0.05 | 4.0 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239283 | Soil | 27 | 0.38 | 350 | 0.018 | <1 | 1.28 | 0.009 | 0.06 | 0.2 | 0.05 | 3.6 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239284 | Soil | 24 | 0.33 | 299 | 0.020 | 1 | 1.13 | 0.008 | 0.09 | 0.3 | 0.04 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239285 | Soil | 23 | 0.44 | 300 | 0.019 | <1 | 1.12 | 0.006 | 0.04 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239286 | Soil | 23 | 0.38 | 184 | 0.023 | 1 | 1.08 | 0.009 | 0.06 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239287 | Soil | 22 | 0.42 | 194 | 0.033 | 1 | 1.02 | 0.013 | 0.07 | 0.5 | 0.05 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239288 | Soil | 23 | 0.43 | 201 | 0.027 | <1 | 1.14 | 0.007 | 0.08 | 0.9 | 0.04 | 3.4 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239289 | Soil | 22 | 0.51 | 109 | 0.012 | <1 | 1.34 | 0.005 | 0.04 | 0.5 | 0.03 | 3.0 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239290 | Soil | 22 | 0.35 | 276 | 0.026 | <1 | 0.91 | 0.009 | 0.04 | 0.3 | 0.03 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239291 | Soil | 33 | 0.48 | 318 | 0.040 | 1 | 1.47 | 0.013 | 0.05 | 0.2 | 0.05 | 5.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239292 | Soil | 29 | 0.39 | 218 | 0.030 | <1 | 1.25 | 0.006 | 0.04 | 0.5 | 0.02 | 3.6 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239293 | Soil | 29 | 0.49 | 218 | 0.021 | <1 | 1.39 | 0.007 | 0.05 | 0.5 | 0.04 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239294 | Soil | 34 | 0.60 | 251 | 0.022 | <1 | 1.81 | 0.007 | 0.05 | 0.4 | 0.02 | 4.0 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239295 | Soil | 41 | 0.74 | 112 | 0.015 | <1 | 1.91 | 0.004 | 0.04 | 0.3 | 0.01 | 2.4 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239296 | Soil | 25 | 0.45 | 159 | 0.025 | <1 | 1.13 | 0.010 | 0.07 | 0.5 | 0.05 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239297 | Soil | 30 | 0.52 | 177 | 0.034 | 1 | 1.26 | 0.019 | 0.09 | 0.8 | 0.03 | 3.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239298 | Soil | 31 | 0.51 | 173 | 0.038 | 1 | 1.27 | 0.017 | 0.11 | 0.8 | 0.04 | 3.6 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239299 | Soil | 25 | 0.42 | 180 | 0.018 | <1 | 1.29 | 0.006 | 0.06 | 0.4 | 0.02 | 2.4 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239300 | Soil | 0.8 | 33.2 | 22.3 | 62 | <0.1 | 33.3 | 12.1 | 408 | 2.78 | 28.0 | 9.9 | 14.8 | 14 | <0.1 | 3.6 | 0.3 | 18 | 0.35 | 0.018 | 37 |
| 1239301 | Soil | 1.1 | 32.8 | 19.3 | 63 | <0.1 | 32.9 | 13.4 | 282 | 3.39 | 15.2 | 5.1 | 16.0 | 22 | <0.1 | 1.2 | 0.3 | 35 | 0.49 | 0.017 | 40 |
| 1239302 | Soil | 0.7 | 34.4 | 32.5 | 37 | 0.3 | 25.8 | 11.3 | 327 | 1.93 | 17.9 | 11.5 | 10.3 | 102 | 0.1 | 6.9 | 0.2 | 6 | 3.40 | 0.025 | 26 |
| 1238401 | Soil | 0.8 | 23.2 | 14.8 | 54 | <0.1 | 21.7 | 9.1 | 335 | 2.67 | 8.1 | 3.0 | 5.5 | 6 | <0.1 | 1.8 | 0.2 | 34 | 0.07 | 0.028 | 22 |

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Report Date: July 02, 2012



# CERTIFICATE OF ANALYSIS WHI12000149.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| Unit | | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| MDL | | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239300 | Soil | 15 | 0.24 | 126 | 0.009 | 1 | 0.66 | 0.006 | 0.05 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239301 | Soil | 26 | 0.50 | 201 | 0.008 | 1 | 1.51 | 0.006 | 0.05 | 0.2 | 0.03 | 3.9 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239302 | Soil | 10 | 0.21 | 225 | 0.003 | 2 | 0.60 | 0.005 | 0.12 | 0.1 | 0.06 | 2.2 | 0.1 | <0.05 | 1 | <0.5 | 1 | <0.2 |
| 1238401 | Soil | 22 | 0.34 | 132 | 0.013 | <1 | 1.25 | 0.004 | 0.05 | 0.2 | 0.03 | 2.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 02, 2012



# QUALITY CONTROL REPORT WHI12000149.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1238870 | Soil | 0.6 | 25.0 | 19.2 | 61 | <0.1 | 26.1 | 12.3 | 858 | 2.40 | 21.5 | 4.0 | 6.3 | 80 | <0.1 | 7.5 | 0.3 | 17 | 0.97 | 0.039 | 23 |
| REP 1238870 | QC | 0.7 | 24.9 | 19.7 | 63 | 0.1 | 25.5 | 12.9 | 876 | 2.46 | 21.7 | 6.4 | 6.3 | 82 | <0.1 | 7.7 | 0.3 | 17 | 0.94 | 0.038 | 23 |
| 1238883 | Soil | 0.6 | 22.4 | 27.2 | 69 | 0.2 | 21.1 | 8.8 | 548 | 2.16 | 20.6 | 5.0 | 5.1 | 34 | 0.2 | 4.4 | 0.4 | 23 | 0.57 | 0.060 | 23 |
| REP 1238883 | QC | 0.6 | 22.7 | 26.8 | 70 | 0.2 | 20.3 | 8.4 | 549 | 2.17 | 21.6 | 6.0 | 5.1 | 33 | 0.2 | 4.2 | 0.4 | 25 | 0.59 | 0.060 | 24 |
| 1239052 | Soil | 1.6 | 30.3 | 16.8 | 60 | 0.2 | 19.1 | 8.7 | 267 | 2.80 | 13.8 | 3.5 | 7.3 | 10 | 0.2 | 1.9 | 0.2 | 68 | 0.07 | 0.018 | 19 |
| REP 1239052 | QC | 1.8 | 29.6 | 16.7 | 57 | 0.3 | 20.2 | 8.7 | 263 | 2.75 | 13.4 | 5.2 | 7.5 | 10 | 0.2 | 1.7 | 0.2 | 67 | 0.07 | 0.018 | 19 |
| 1239065 | Soil | 1.2 | 25.3 | 23.2 | 55 | 0.3 | 22.5 | 8.6 | 210 | 2.39 | 11.1 | 3.0 | 5.4 | 10 | 0.2 | 2.8 | 0.2 | 44 | 0.07 | 0.017 | 18 |
| REP 1239065 | QC | 1.1 | 25.5 | 23.5 | 51 | 0.3 | 21.9 | 8.4 | 205 | 2.30 | 11.6 | 4.7 | 5.4 | 10 | 0.2 | 2.9 | 0.1 | 44 | 0.07 | 0.019 | 18 |
| 1239088 | Soil | 1.1 | 41.7 | 13.5 | 61 | <0.1 | 25.1 | 11.2 | 405 | 3.13 | 7.7 | 2.2 | 6.4 | 35 | 0.1 | 0.7 | 0.2 | 98 | 0.41 | 0.021 | 19 |
| REP 1239088 | QC | 1.2 | 40.5 | 13.3 | 60 | <0.1 | 25.4 | 11.0 | 391 | 3.08 | 7.8 | 3.6 | 6.3 | 33 | 0.1 | 0.6 | 0.2 | 96 | 0.39 | 0.021 | 18 |
| 1239101 | Soil | 1.4 | 31.4 | 12.6 | 80 | 0.1 | 28.9 | 9.8 | 321 | 2.50 | 15.1 | 1.6 | 5.8 | 26 | 0.3 | 1.6 | 0.2 | 43 | 0.36 | 0.071 | 17 |
| REP 1239101 | QC | 1.5 | 32.0 | 12.7 | 80 | 0.1 | 29.7 | 9.9 | 322 | 2.51 | 14.3 | 4.2 | 6.0 | 26 | 0.2 | 1.7 | 0.2 | 43 | 0.36 | 0.074 | 18 |
| 1239124 | Soil | 1.0 | 28.6 | 18.1 | 66 | 0.1 | 25.3 | 10.6 | 342 | 2.27 | 32.3 | 3.5 | 8.8 | 34 | 0.3 | 3.8 | 0.3 | 25 | 0.96 | 0.061 | 23 |
| REP 1239124 | QC | 0.8 | 29.0 | 18.5 | 68 | 0.1 | 25.4 | 10.8 | 348 | 2.30 | 33.1 | 5.8 | 8.9 | 33 | 0.3 | 3.8 | 0.2 | 23 | 0.95 | 0.061 | 24 |
| 1239137 | Soil | 0.9 | 11.9 | 8.1 | 34 | <0.1 | 11.2 | 4.1 | 112 | 1.49 | 9.3 | 10.6 | 3.0 | 12 | <0.1 | 0.9 | 0.1 | 35 | 0.16 | 0.037 | 14 |
| REP 1239137 | QC | 0.8 | 12.3 | 8.1 | 36 | <0.1 | 11.4 | 3.9 | 114 | 1.53 | 9.7 | 0.8 | 3.1 | 13 | <0.1 | 1.0 | 0.1 | 36 | 0.17 | 0.037 | 15 |
| 1239267 | Soil | 0.8 | 41.5 | 48.5 | 92 | 0.3 | 29.6 | 12.3 | 467 | 3.07 | 32.5 | 3.6 | 7.1 | 20 | 0.4 | 12.9 | 0.6 | 24 | 0.19 | 0.051 | 38 |
| REP 1239267 | QC | 0.7 | 40.7 | 48.0 | 95 | 0.3 | 29.0 | 12.2 | 471 | 3.12 | 31.7 | 4.3 | 6.9 | 19 | 0.5 | 12.2 | 0.6 | 24 | 0.19 | 0.049 | 38 |
| 1239280 | Soil | 0.7 | 50.7 | 14.1 | 76 | <0.1 | 37.2 | 14.9 | 401 | 3.31 | 17.8 | 4.2 | 15.5 | 11 | <0.1 | 2.4 | 0.2 | 27 | 0.05 | 0.021 | 40 |
| REP 1239280 | QC | 0.8 | 48.9 | 14.3 | 73 | <0.1 | 36.2 | 14.0 | 382 | 3.23 | 16.7 | 6.9 | 15.6 | 10 | <0.1 | 2.3 | 0.2 | 26 | 0.05 | 0.021 | 38 |
| 1239301 | Soil | 1.1 | 32.8 | 19.3 | 63 | <0.1 | 32.9 | 13.4 | 282 | 3.39 | 15.2 | 5.1 | 16.0 | 22 | <0.1 | 1.2 | 0.3 | 35 | 0.49 | 0.017 | 40 |
| REP 1239301 | QC | 1.2 | 33.6 | 19.7 | 67 | <0.1 | 33.6 | 13.6 | 276 | 3.40 | 15.4 | 6.1 | 16.2 | 21 | <0.1 | 1.1 | 0.3 | 34 | 0.51 | 0.018 | 41 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.5 | 112.5 | 121.5 | 302 | 1.6 | 41.9 | 8.0 | 588 | 2.31 | 24.0 | 110.6 | 6.5 | 73 | 2.2 | 5.6 | 6.1 | 47 | 0.74 | 0.082 | 15 |
| STD DS9 | Standard | 13.3 | 109.4 | 117.5 | 294 | 1.7 | 40.4 | 7.6 | 548 | 2.17 | 23.6 | 111.5 | 6.3 | 66 | 2.0 | 5.3 | 5.9 | 44 | 0.67 | 0.080 | 13 |
| STD DS9 | Standard | 13.0 | 108.3 | 117.0 | 304 | 1.8 | 39.7 | 7.6 | 572 | 2.27 | 24.5 | 118.3 | 6.2 | 71 | 2.3 | 5.5 | 6.2 | 47 | 0.70 | 0.084 | 14 |
| STD DS9 | Standard | 12.6 | 103.7 | 119.5 | 293 | 1.8 | 39.2 | 7.0 | 539 | 2.12 | 22.8 | 134.0 | 5.9 | 65 | 2.0 | 5.4 | 5.3 | 42 | 0.70 | 0.081 | 12 |
| STD DS9 | Standard | 12.9 | 112.0 | 124.0 | 307 | 1.8 | 39.4 | 8.0 | 574 | 2.25 | 25.1 | 120.4 | 6.1 | 69 | 2.0 | 5.4 | 5.4 | 43 | 0.68 | 0.080 | 13 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 02, 2012



# QUALITY CONTROL REPORT WHI12000149.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | |
| 1238870 | Soil | | 16 | 0.29 | 163 | 0.007 | 2 | 0.69 | 0.007 | 0.06 | 0.3 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| REP 1238870 | QC | | 16 | 0.30 | 160 | 0.007 | 2 | 0.69 | 0.007 | 0.07 | 0.3 | 0.03 | 1.7 | <0.1 | 0.06 | 2 | <0.5 | 3 | <0.2 |
| 1238883 | Soil | | 19 | 0.33 | 186 | 0.008 | <1 | 0.91 | 0.008 | 0.07 | 0.2 | 0.08 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1238883 | QC | | 20 | 0.32 | 184 | 0.009 | <1 | 0.89 | 0.008 | 0.07 | 0.2 | 0.08 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239052 | Soil | | 38 | 0.48 | 225 | 0.041 | 3 | 1.99 | 0.008 | 0.04 | 0.3 | 0.04 | 5.7 | 0.3 | <0.05 | 6 | 0.5 | 1 | <0.2 |
| REP 1239052 | QC | | 37 | 0.47 | 223 | 0.041 | 2 | 1.95 | 0.009 | 0.04 | 0.2 | 0.05 | 5.8 | 0.3 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239065 | Soil | | 29 | 0.33 | 167 | 0.028 | 2 | 1.24 | 0.005 | 0.04 | 0.3 | 0.02 | 3.2 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| REP 1239065 | QC | | 28 | 0.32 | 167 | 0.029 | <1 | 1.25 | 0.004 | 0.04 | 0.4 | 0.02 | 3.0 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239088 | Soil | | 40 | 0.60 | 235 | 0.086 | <1 | 1.57 | 0.009 | 0.06 | 0.2 | 0.01 | 4.1 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| REP 1239088 | QC | | 38 | 0.58 | 230 | 0.082 | <1 | 1.56 | 0.007 | 0.06 | 0.1 | 0.02 | 3.9 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239101 | Soil | | 28 | 0.40 | 201 | 0.040 | 1 | 0.99 | 0.014 | 0.08 | 0.3 | 0.03 | 3.6 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239101 | QC | | 28 | 0.41 | 206 | 0.040 | 1 | 1.03 | 0.014 | 0.08 | 0.3 | 0.03 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239124 | Soil | | 17 | 0.44 | 142 | 0.024 | 2 | 0.72 | 0.011 | 0.08 | 0.7 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1239124 | QC | | 17 | 0.44 | 144 | 0.024 | 1 | 0.75 | 0.010 | 0.09 | 0.7 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239137 | Soil | | 16 | 0.23 | 192 | 0.019 | <1 | 0.83 | 0.005 | 0.03 | 0.3 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239137 | QC | | 17 | 0.24 | 199 | 0.020 | <1 | 0.85 | 0.005 | 0.04 | 0.3 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239267 | Soil | | 19 | 0.28 | 150 | 0.009 | 2 | 0.87 | 0.005 | 0.12 | 0.7 | 0.10 | 2.3 | 0.2 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| REP 1239267 | QC | | 19 | 0.27 | 147 | 0.009 | 1 | 0.83 | 0.005 | 0.12 | 0.7 | 0.11 | 2.3 | 0.2 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239280 | Soil | | 25 | 0.64 | 159 | 0.031 | <1 | 1.46 | 0.005 | 0.06 | 0.4 | 0.03 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1239280 | QC | | 24 | 0.59 | 151 | 0.026 | <1 | 1.38 | 0.004 | 0.06 | 0.4 | 0.04 | 3.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239301 | Soil | | 26 | 0.50 | 201 | 0.008 | 1 | 1.51 | 0.006 | 0.05 | 0.2 | 0.03 | 3.9 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| REP 1239301 | QC | | 27 | 0.50 | 201 | 0.008 | <1 | 1.54 | 0.006 | 0.06 | 0.2 | 0.01 | 3.9 | <0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | 126 | 0.60 | 292 | 0.125 | 3 | 0.92 | 0.088 | 0.35 | 3.0 | 0.20 | 2.7 | 5.4 | 0.20 | 5 | 4.5 | 6 | 4.7 |
| STD DS9 | Standard | | 119 | 0.59 | 286 | 0.109 | 2 | 0.88 | 0.090 | 0.34 | 2.9 | 0.20 | 2.6 | 5.3 | 0.18 | 4 | 5.0 | 6 | 4.9 |
| STD DS9 | Standard | | 124 | 0.63 | 289 | 0.121 | 3 | 0.93 | 0.103 | 0.35 | 3.0 | 0.19 | 2.7 | 5.4 | 0.19 | 4 | 4.9 | 6 | 5.1 |
| STD DS9 | Standard | | 120 | 0.59 | 283 | 0.110 | 2 | 0.87 | 0.083 | 0.36 | 2.8 | 0.22 | 2.4 | 5.4 | 0.14 | 4 | 4.9 | 6 | 4.7 |
| STD DS9 | Standard | | 125 | 0.61 | 289 | 0.116 | 2 | 0.92 | 0.085 | 0.33 | 3.0 | 0.18 | 2.7 | 5.8 | 0.21 | 4 | 5.1 | 6 | 5.7 |

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Project: MQ
Report Date: July 02, 2012



# QUALITY CONTROL REPORT WHI12000149.1

| | | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 | 1DX15 La ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD DS9 | Standard | 14.4 | 113.1 | 124.9 | 315 | 2.0 | 43.0 | 8.0 | 637 | 2.53 | 24.4 | 130.6 | 6.5 | 71 | 2.4 | 5.5 | 6.6 | 47 | 0.77 | 0.089 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | 0.2 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 5 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | 0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 3 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | 0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 5 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Project: MQ
Report Date: July 02, 2012



# QUALITY CONTROL REPORT WHI12000149.1

| | | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 | 1DX15 Sn ppm 1 | 1DX15 Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD DS9 | Standard | 131 | 0.64 | 306 | 0.117 | 3 | 0.97 | 0.087 | 0.37 | 3.2 | 0.21 | 2.7 | 6.1 | 0.21 | 5 | 5.3 | 6 | 5.4 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: June 25, 2012
Report Date: July 06, 2012
Page: 1 of 12

# CERTIFICATE OF ANALYSIS DAW12000051.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Soils 2
P.O. Number
Number of Samples: 320

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 319 | Dry at 60C | | | DAW |
| SS80 | 319 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 319 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 319 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238081 | Soil | | 0.9 | 19.8 | 14.6 | 56 | <0.1 | 17.7 | 9.4 | 259 | 2.35 | 7.1 | 2.3 | 6.2 | 15 | <0.1 | 1.0 | 0.2 | 31 | 0.19 | 0.043 | 23 |
| 1238082 | Soil | | 0.5 | 23.9 | 9.2 | 51 | 0.2 | 19.1 | 6.8 | 106 | 1.41 | 4.3 | 5.2 | 3.2 | 18 | 0.3 | 0.7 | 0.1 | 31 | 0.35 | 0.068 | 13 |
| 1238083 | Soil | | 0.7 | 22.0 | 11.0 | 65 | <0.1 | 27.1 | 7.6 | 208 | 1.94 | 11.2 | 4.4 | 4.4 | 15 | 0.2 | 0.8 | 0.1 | 33 | 0.23 | 0.065 | 13 |
| 1238084 | Soil | | 0.9 | 11.3 | 12.3 | 34 | 0.1 | 15.1 | 5.9 | 192 | 1.89 | 7.9 | 1.5 | 1.7 | 15 | <0.1 | 0.4 | 0.2 | 48 | 0.21 | 0.044 | 11 |
| 1238085 | Soil | | 1.6 | 21.6 | 13.5 | 57 | 0.2 | 27.7 | 11.1 | 144 | 3.08 | 25.4 | 2.8 | 3.2 | 35 | 0.4 | 1.0 | 0.2 | 40 | 0.60 | 0.066 | 12 |
| 1238086 | Soil | | 1.0 | 15.1 | 13.6 | 42 | <0.1 | 16.1 | 5.8 | 149 | 2.34 | 11.6 | 2.8 | 5.3 | 6 | 0.1 | 0.6 | 0.2 | 40 | 0.08 | 0.035 | 18 |
| 1238087 | Soil | | 0.8 | 25.8 | 12.6 | 63 | 0.1 | 27.6 | 7.6 | 175 | 2.24 | 13.8 | 12.3 | 1.9 | 15 | 0.2 | 0.8 | 0.2 | 36 | 0.27 | 0.060 | 18 |
| 1238088 | Soil | | 0.8 | 28.4 | 21.8 | 60 | 0.1 | 24.9 | 10.5 | 178 | 2.56 | 7.6 | 3.0 | 8.9 | 14 | 0.1 | 0.5 | 0.2 | 29 | 0.20 | 0.047 | 32 |
| 1238089 | Soil | | 1.0 | 30.6 | 17.0 | 67 | 0.1 | 26.8 | 12.0 | 266 | 2.78 | 8.4 | 2.9 | 3.7 | 20 | <0.1 | 0.7 | 0.2 | 27 | 0.24 | 0.053 | 21 |
| 1238090 | Soil | | 1.1 | 34.5 | 23.7 | 72 | 0.1 | 31.7 | 12.4 | 305 | 3.29 | 10.4 | 5.7 | 7.5 | 11 | <0.1 | 0.7 | 0.3 | 22 | 0.12 | 0.040 | 28 |
| 1238091 | Soil | | 1.2 | 32.1 | 17.9 | 62 | <0.1 | 25.4 | 9.3 | 196 | 3.13 | 8.5 | 2.1 | 6.3 | 7 | <0.1 | 0.6 | 0.2 | 21 | 0.06 | 0.031 | 36 |
| 1238092 | Soil | | 1.3 | 35.5 | 21.5 | 62 | <0.1 | 30.2 | 10.6 | 236 | 3.43 | 7.1 | 2.1 | 5.5 | 10 | <0.1 | 0.7 | 0.3 | 23 | 0.06 | 0.033 | 37 |
| 1238093 | Soil | | 0.9 | 72.3 | 22.5 | 75 | <0.1 | 46.7 | 18.2 | 394 | 3.68 | 12.5 | 31.9 | 20.6 | 7 | <0.1 | 0.7 | 0.4 | 21 | 0.05 | 0.023 | 56 |
| 1238094 | Soil | | 0.6 | 22.7 | 16.7 | 51 | 0.1 | 21.1 | 8.3 | 211 | 2.25 | 7.9 | 3.6 | 6.3 | 12 | <0.1 | 2.0 | 0.2 | 23 | 0.12 | 0.041 | 30 |
| 1238095 | Soil | | 1.1 | 13.3 | 13.6 | 39 | <0.1 | 14.8 | 5.7 | 121 | 2.13 | 7.7 | 2.3 | 4.3 | 11 | <0.1 | 0.5 | 0.2 | 37 | 0.11 | 0.025 | 26 |
| 1238096 | Soil | | 0.8 | 18.2 | 15.2 | 48 | <0.1 | 17.0 | 7.0 | 166 | 2.41 | 7.5 | 2.4 | 7.8 | 6 | <0.1 | 0.5 | 0.2 | 34 | 0.07 | 0.022 | 28 |
| 1238097 | Soil | | 0.8 | 28.1 | 11.6 | 59 | <0.1 | 27.3 | 9.6 | 334 | 2.09 | 13.5 | 39.7 | 4.9 | 9 | 0.2 | 1.0 | 0.2 | 31 | 0.14 | 0.054 | 16 |
| 1238098 | Soil | | 0.9 | 20.0 | 14.3 | 45 | <0.1 | 19.6 | 7.0 | 154 | 2.44 | 12.3 | 119.9 | 3.8 | 7 | 0.1 | 0.7 | 0.2 | 38 | 0.10 | 0.038 | 17 |
| 1238099 | Soil | | 0.8 | 14.8 | 10.9 | 43 | 0.2 | 16.9 | 7.7 | 136 | 1.83 | 7.2 | 64.3 | 2.1 | 14 | 0.1 | 0.6 | 0.2 | 33 | 0.20 | 0.057 | 17 |
| 1238100 | Soil | | 1.2 | 31.1 | 24.0 | 69 | 0.2 | 26.7 | 14.1 | 564 | 3.36 | 11.8 | 3.4 | 3.6 | 15 | 0.1 | 1.3 | 0.2 | 35 | 0.15 | 0.044 | 27 |
| 1238101 | Soil | | 1.1 | 14.6 | 14.2 | 48 | <0.1 | 16.7 | 6.1 | 218 | 2.25 | 15.0 | 11.6 | 5.3 | 6 | 0.1 | 1.6 | 0.2 | 34 | 0.08 | 0.038 | 17 |
| 1238102 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 1238103 | Soil | | 0.8 | 30.4 | 19.2 | 61 | <0.1 | 28.5 | 14.8 | 499 | 3.04 | 6.3 | 1.3 | 10.9 | 7 | <0.1 | 0.2 | 0.3 | 16 | 0.03 | 0.027 | 44 |
| 1238104 | Soil | | 1.0 | 29.6 | 17.0 | 52 | <0.1 | 28.3 | 16.9 | 298 | 2.39 | 6.9 | 1.7 | 7.2 | 8 | <0.1 | 0.4 | 0.2 | 21 | 0.04 | 0.021 | 34 |
| 1238105 | Soil | | 1.0 | 24.7 | 16.4 | 54 | <0.1 | 20.5 | 8.8 | 271 | 2.72 | 8.6 | 1.3 | 9.5 | 9 | <0.1 | 0.5 | 0.2 | 39 | 0.05 | 0.034 | 25 |
| 1238106 | Soil | | 0.8 | 35.8 | 17.4 | 60 | <0.1 | 28.1 | 15.1 | 336 | 3.00 | 7.4 | 1.6 | 13.2 | 6 | <0.1 | 0.5 | 0.3 | 21 | 0.02 | 0.020 | 39 |
| 1238107 | Soil | | 0.9 | 33.3 | 17.0 | 57 | <0.1 | 25.1 | 12.1 | 317 | 2.76 | 8.6 | 15.6 | 9.6 | 6 | <0.1 | 0.7 | 0.2 | 28 | 0.03 | 0.027 | 32 |
| 1238108 | Soil | | 0.8 | 34.5 | 18.0 | 64 | <0.1 | 29.9 | 13.7 | 344 | 2.97 | 7.0 | 1.6 | 11.6 | 7 | <0.1 | 0.6 | 0.3 | 20 | 0.05 | 0.024 | 35 |
| 1238109 | Soil | | 0.7 | 33.1 | 19.4 | 64 | <0.1 | 32.7 | 13.1 | 383 | 2.97 | 7.6 | 2.3 | 9.5 | 10 | <0.1 | 0.5 | 0.2 | 21 | 0.09 | 0.035 | 32 |
| 1238110 | Soil | | 0.6 | 28.7 | 12.1 | 52 | <0.1 | 23.7 | 9.5 | 283 | 2.43 | 7.4 | 1.3 | 8.2 | 9 | <0.1 | 0.5 | 0.2 | 28 | 0.10 | 0.034 | 28 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238081 | Soil | | 19 | 0.25 | 190 | 0.008 | <1 | 0.81 | 0.004 | 0.03 | 0.4 | 0.04 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238082 | Soil | | 16 | 0.30 | 196 | 0.027 | 1 | 0.64 | 0.004 | 0.02 | 1.4 | 0.04 | 2.0 | <0.1 | 0.07 | 2 | <0.5 | 2 | <0.2 |
| 1238083 | Soil | | 18 | 0.32 | 171 | 0.025 | <1 | 0.68 | 0.004 | 0.03 | 0.7 | 0.02 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1238084 | Soil | | 22 | 0.30 | 351 | 0.016 | <1 | 1.09 | 0.005 | 0.02 | 0.2 | 0.03 | 1.9 | 0.1 | <0.05 | 4 | <0.5 | 4 | <0.2 |
| 1238085 | Soil | | 23 | 0.36 | 596 | 0.015 | 1 | 0.97 | 0.006 | 0.02 | 0.5 | 0.03 | 2.6 | <0.1 | 0.05 | 3 | 0.9 | 3 | <0.2 |
| 1238086 | Soil | | 21 | 0.28 | 74 | 0.032 | <1 | 0.98 | 0.003 | 0.02 | 0.5 | 0.02 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238087 | Soil | | 21 | 0.32 | 294 | 0.019 | 1 | 0.92 | 0.004 | 0.03 | 0.7 | 0.03 | 2.1 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1238088 | Soil | | 22 | 0.39 | 153 | 0.009 | <1 | 1.03 | 0.004 | 0.03 | 0.4 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 5 | <0.2 |
| 1238089 | Soil | | 20 | 0.38 | 208 | 0.006 | <1 | 1.09 | 0.005 | 0.03 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238090 | Soil | | 20 | 0.44 | 165 | 0.006 | <1 | 1.12 | 0.004 | 0.03 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | 8 | <0.2 |
| 1238091 | Soil | | 19 | 0.47 | 84 | 0.008 | <1 | 1.07 | 0.003 | 0.03 | 0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238092 | Soil | | 19 | 0.33 | 84 | 0.006 | <1 | 0.99 | 0.003 | 0.03 | 0.2 | 0.03 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238093 | Soil | | 22 | 0.50 | 157 | 0.010 | <1 | 1.21 | 0.005 | 0.04 | 0.2 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238094 | Soil | | 16 | 0.28 | 122 | 0.007 | <1 | 0.87 | 0.004 | 0.03 | 0.2 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238095 | Soil | | 21 | 0.26 | 142 | 0.016 | <1 | 1.11 | 0.005 | 0.03 | 0.2 | 0.01 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238096 | Soil | | 22 | 0.35 | 119 | 0.015 | <1 | 1.16 | 0.004 | 0.03 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238097 | Soil | | 18 | 0.30 | 85 | 0.029 | <1 | 0.82 | 0.003 | 0.03 | 0.4 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238098 | Soil | | 22 | 0.31 | 85 | 0.023 | <1 | 1.06 | 0.003 | 0.03 | 0.3 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238099 | Soil | | 20 | 0.29 | 197 | 0.010 | <1 | 0.99 | 0.004 | 0.03 | 0.3 | 0.05 | 2.0 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238100 | Soil | | 22 | 0.34 | 278 | 0.008 | <1 | 1.36 | 0.004 | 0.05 | 0.4 | 0.05 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238101 | Soil | | 16 | 0.22 | 55 | 0.027 | <1 | 0.63 | 0.003 | 0.03 | 0.7 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238102 | Soil | | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 1238103 | Soil | | 10 | 0.13 | 118 | 0.006 | <1 | 0.53 | 0.003 | 0.03 | <0.1 | 0.06 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238104 | Soil | | 15 | 0.18 | 104 | 0.009 | <1 | 0.71 | 0.003 | 0.03 | 0.1 | 0.08 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238105 | Soil | | 25 | 0.32 | 164 | 0.022 | <1 | 1.23 | 0.005 | 0.04 | 0.2 | 0.06 | 3.4 | 0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238106 | Soil | | 16 | 0.27 | 90 | 0.012 | <1 | 0.94 | 0.004 | 0.05 | <0.1 | 0.12 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238107 | Soil | | 20 | 0.33 | 120 | 0.019 | <1 | 1.15 | 0.003 | 0.04 | 0.1 | 0.06 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238108 | Soil | | 17 | 0.38 | 114 | 0.013 | <1 | 1.00 | 0.003 | 0.05 | <0.1 | 0.09 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238109 | Soil | | 16 | 0.36 | 157 | 0.011 | <1 | 1.00 | 0.004 | 0.04 | <0.1 | 0.07 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238110 | Soil | | 18 | 0.38 | 160 | 0.024 | <1 | 1.02 | 0.004 | 0.04 | 0.2 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238111 | Soil | 0.9 | 26.3 | 13.6 | 51 | <0.1 | 21.2 | 9.0 | 243 | 2.30 | 6.2 | 2.6 | 7.8 | 9 | <0.1 | 0.4 | 0.2 | 25 | 0.10 | 0.036 | 30 |
| 1238112 | Soil | 1.0 | 25.1 | 17.9 | 54 | <0.1 | 24.8 | 13.7 | 284 | 3.05 | 6.7 | 2.0 | 7.0 | 9 | <0.1 | 0.4 | 0.2 | 21 | 0.08 | 0.040 | 36 |
| 1238113 | Soil | 1.1 | 23.5 | 15.9 | 50 | <0.1 | 20.8 | 9.1 | 255 | 2.73 | 7.1 | 1.1 | 4.7 | 11 | <0.1 | 0.5 | 0.2 | 26 | 0.11 | 0.036 | 28 |
| 1238114 | Soil | 0.8 | 23.3 | 13.0 | 45 | <0.1 | 19.1 | 8.3 | 199 | 2.10 | 7.2 | 5.5 | 6.2 | 9 | <0.1 | 0.7 | 0.2 | 26 | 0.10 | 0.036 | 26 |
| 1238115 | Soil | 1.0 | 30.0 | 19.5 | 58 | <0.1 | 25.9 | 12.4 | 254 | 2.71 | 6.9 | 6.0 | 5.8 | 12 | <0.1 | 0.6 | 0.3 | 23 | 0.15 | 0.038 | 35 |
| 1238116 | Soil | 0.9 | 33.1 | 15.5 | 66 | <0.1 | 26.5 | 11.3 | 216 | 2.93 | 4.8 | 1.4 | 13.4 | 9 | <0.1 | 0.4 | 0.3 | 15 | 0.09 | 0.026 | 39 |
| 1238117 | Soil | 1.1 | 30.3 | 18.0 | 61 | <0.1 | 27.8 | 11.0 | 288 | 2.43 | 8.0 | 2.6 | 7.1 | 16 | 0.1 | 0.7 | 0.2 | 31 | 0.19 | 0.035 | 25 |
| 1238118 | Soil | 1.2 | 35.6 | 18.4 | 70 | <0.1 | 34.1 | 14.6 | 352 | 2.91 | 9.8 | 9.6 | 9.1 | 20 | 0.2 | 0.9 | 0.2 | 29 | 0.21 | 0.044 | 26 |
| 1238119 | Soil | 1.0 | 34.6 | 18.0 | 60 | <0.1 | 32.6 | 13.4 | 351 | 2.73 | 9.6 | 5.4 | 8.7 | 20 | 0.1 | 0.8 | 0.2 | 25 | 0.20 | 0.038 | 28 |
| 1238120 | Soil | 0.8 | 27.8 | 14.5 | 52 | <0.1 | 22.4 | 9.2 | 196 | 2.35 | 6.7 | 7.4 | 10.0 | 14 | <0.1 | 0.6 | 0.2 | 22 | 0.14 | 0.024 | 32 |
| 1238121 | Soil | 0.6 | 25.1 | 15.7 | 53 | <0.1 | 27.4 | 9.4 | 201 | 2.50 | 10.5 | 2.3 | 11.7 | 11 | <0.1 | 0.5 | 0.1 | 20 | 0.09 | 0.023 | 35 |
| 1238122 | Soil | 0.5 | 29.8 | 17.4 | 57 | <0.1 | 27.9 | 10.4 | 180 | 2.65 | 6.1 | 2.2 | 10.6 | 10 | <0.1 | 0.4 | 0.2 | 16 | 0.09 | 0.028 | 41 |
| 1238123 | Soil | 0.7 | 32.9 | 18.4 | 63 | <0.1 | 29.1 | 11.2 | 251 | 2.92 | 6.8 | 2.4 | 12.1 | 10 | <0.1 | 0.6 | 0.2 | 18 | 0.07 | 0.025 | 41 |
| 1238124 | Soil | 0.8 | 35.6 | 18.1 | 66 | <0.1 | 26.6 | 9.9 | 252 | 2.82 | 12.6 | 2.6 | 10.2 | 9 | <0.1 | 1.2 | 0.2 | 21 | 0.06 | 0.030 | 35 |
| 1238125 | Soil | 0.7 | 33.8 | 22.0 | 69 | <0.1 | 31.3 | 14.3 | 383 | 3.04 | 9.5 | 8.8 | 12.1 | 9 | <0.1 | 0.9 | 0.2 | 17 | 0.05 | 0.030 | 37 |
| 1238126 | Soil | 0.9 | 30.9 | 21.0 | 60 | <0.1 | 26.6 | 9.0 | 204 | 2.80 | 9.6 | 2.5 | 8.4 | 10 | <0.1 | 0.8 | 0.3 | 23 | 0.06 | 0.039 | 32 |
| 1238127 | Soil | 0.7 | 35.6 | 17.9 | 61 | <0.1 | 33.3 | 11.8 | 349 | 2.90 | 8.8 | 2.6 | 9.9 | 15 | <0.1 | 0.7 | 0.2 | 32 | 0.13 | 0.036 | 28 |
| 1238128 | Soil | 0.6 | 31.8 | 17.9 | 61 | <0.1 | 24.4 | 10.8 | 249 | 2.82 | 7.6 | 2.1 | 12.6 | 9 | <0.1 | 0.8 | 0.2 | 23 | 0.05 | 0.025 | 34 |
| 1238129 | Soil | 0.8 | 31.1 | 19.2 | 69 | <0.1 | 22.3 | 8.6 | 206 | 2.58 | 7.2 | 4.7 | 9.5 | 9 | <0.1 | 0.8 | 0.2 | 32 | 0.05 | 0.017 | 26 |
| 1238130 | Soil | 0.8 | 36.4 | 26.1 | 106 | <0.1 | 30.4 | 11.8 | 306 | 2.88 | 6.9 | 2.8 | 11.2 | 12 | <0.1 | 0.7 | 0.2 | 31 | 0.08 | 0.028 | 33 |
| 1238131 | Soil | 0.8 | 34.4 | 25.1 | 79 | <0.1 | 28.8 | 11.1 | 280 | 2.82 | 7.4 | 6.8 | 5.9 | 13 | <0.1 | 0.6 | 0.2 | 36 | 0.11 | 0.030 | 30 |
| 1238132 | Soil | 0.7 | 37.0 | 25.9 | 69 | <0.1 | 33.3 | 13.3 | 291 | 3.19 | 9.1 | 39.0 | 8.9 | 10 | <0.1 | 1.0 | 0.2 | 31 | 0.05 | 0.027 | 30 |
| 1238133 | Soil | 0.5 | 34.9 | 20.7 | 95 | <0.1 | 39.7 | 14.1 | 318 | 2.92 | 4.8 | 3.2 | 7.8 | 37 | 0.2 | 0.4 | 0.2 | 24 | 0.38 | 0.054 | 35 |
| 1238134 | Soil | 0.8 | 48.7 | 41.3 | 72 | <0.1 | 39.7 | 19.8 | 310 | 3.66 | 2.7 | 3.1 | 18.9 | 16 | <0.1 | 0.5 | 0.3 | 18 | 0.05 | 0.031 | 61 |
| 1238135 | Soil | 0.9 | 57.5 | 26.1 | 64 | 0.1 | 45.8 | 18.8 | 365 | 3.97 | 11.9 | 2.1 | 14.9 | 53 | <0.1 | 0.6 | 0.3 | 57 | 0.41 | 0.056 | 47 |
| 1238136 | Soil | 1.1 | 49.6 | 24.4 | 67 | <0.1 | 39.0 | 11.9 | 361 | 4.52 | 8.6 | 1.2 | 24.4 | 50 | <0.1 | 0.3 | 0.3 | 33 | 0.11 | 0.042 | 59 |
| 1238137 | Soil | 0.4 | 16.5 | 12.5 | 82 | <0.1 | 21.0 | 8.8 | 320 | 1.81 | 4.4 | 1.1 | 4.8 | 27 | 0.3 | 0.4 | 0.3 | 19 | 0.30 | 0.057 | 24 |
| 1238138 | Soil | 0.8 | 23.5 | 14.6 | 47 | <0.1 | 21.8 | 8.5 | 176 | 2.40 | 14.5 | 2.7 | 4.9 | 10 | <0.1 | 1.1 | 0.1 | 35 | 0.08 | 0.021 | 11 |
| 1238139 | Soil | 0.8 | 15.5 | 11.7 | 40 | <0.1 | 16.2 | 7.3 | 182 | 2.19 | 14.5 | 1.6 | 4.1 | 8 | <0.1 | 0.9 | 0.1 | 35 | 0.08 | 0.026 | 11 |
| 1238140 | Soil | 0.4 | 16.3 | 12.0 | 70 | <0.1 | 21.7 | 9.5 | 305 | 1.99 | 4.5 | 18.9 | 8.0 | 30 | 0.3 | 0.6 | <0.1 | 20 | 0.30 | 0.060 | 35 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238111 | Soil | | 17 | 0.36 | 138 | 0.017 | <1 | 0.93 | 0.004 | 0.03 | 0.1 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238112 | Soil | | 18 | 0.39 | 111 | 0.007 | <1 | 0.98 | 0.003 | 0.03 | 0.2 | 0.04 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238113 | Soil | | 20 | 0.37 | 133 | 0.009 | <1 | 1.00 | 0.003 | 0.03 | 0.1 | 0.05 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238114 | Soil | | 18 | 0.31 | 121 | 0.020 | <1 | 0.91 | 0.004 | 0.03 | 0.2 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238115 | Soil | | 18 | 0.37 | 115 | 0.009 | <1 | 0.95 | 0.004 | 0.04 | 0.1 | 0.04 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238116 | Soil | | 16 | 0.41 | 80 | 0.004 | <1 | 0.91 | 0.003 | 0.03 | <0.1 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238117 | Soil | | 19 | 0.31 | 196 | 0.021 | <1 | 0.93 | 0.006 | 0.04 | 0.1 | 0.09 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 6 | <0.2 |
| 1238118 | Soil | | 23 | 0.35 | 213 | 0.019 | <1 | 0.93 | 0.006 | 0.04 | 0.2 | 0.07 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238119 | Soil | | 20 | 0.29 | 214 | 0.019 | <1 | 0.81 | 0.005 | 0.03 | 0.1 | 0.10 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1238120 | Soil | | 15 | 0.27 | 170 | 0.010 | <1 | 0.80 | 0.004 | 0.03 | 0.1 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238121 | Soil | | 22 | 0.25 | 102 | 0.008 | <1 | 0.70 | 0.004 | 0.03 | <0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238122 | Soil | | 15 | 0.32 | 89 | 0.006 | <1 | 0.82 | 0.003 | 0.03 | <0.1 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238123 | Soil | | 17 | 0.32 | 97 | 0.008 | <1 | 0.87 | 0.006 | 0.05 | <0.1 | 0.03 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238124 | Soil | | 18 | 0.33 | 114 | 0.011 | <1 | 1.04 | 0.004 | 0.05 | 0.2 | 0.06 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238125 | Soil | | 23 | 0.27 | 69 | 0.010 | 1 | 0.78 | 0.004 | 0.04 | <0.1 | 0.05 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238126 | Soil | | 23 | 0.24 | 92 | 0.008 | <1 | 0.89 | 0.005 | 0.05 | 0.1 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238127 | Soil | | 27 | 0.37 | 162 | 0.017 | <1 | 1.05 | 0.005 | 0.05 | 0.1 | 0.08 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238128 | Soil | | 20 | 0.33 | 83 | 0.015 | <1 | 0.99 | 0.004 | 0.05 | 0.1 | 0.07 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238129 | Soil | | 22 | 0.30 | 137 | 0.014 | <1 | 1.01 | 0.004 | 0.04 | 0.1 | 0.06 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238130 | Soil | | 23 | 0.27 | 152 | 0.012 | <1 | 0.79 | 0.004 | 0.05 | <0.1 | 0.05 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238131 | Soil | | 29 | 0.33 | 170 | 0.009 | <1 | 0.93 | 0.004 | 0.04 | <0.1 | 0.07 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238132 | Soil | | 30 | 0.28 | 115 | 0.009 | <1 | 0.84 | 0.005 | 0.05 | <0.1 | 0.09 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | 8 | <0.2 |
| 1238133 | Soil | | 35 | 0.27 | 88 | 0.006 | <1 | 0.60 | 0.007 | 0.04 | <0.1 | 0.13 | 2.9 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238134 | Soil | | 22 | 0.32 | 94 | 0.003 | <1 | 0.80 | 0.005 | 0.07 | <0.1 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 19 | <0.2 |
| 1238135 | Soil | | 65 | 0.88 | 102 | 0.005 | <1 | 1.61 | 0.004 | 0.04 | <0.1 | 0.03 | 7.9 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238136 | Soil | | 81 | 0.90 | 57 | 0.004 | <1 | 1.45 | 0.014 | 0.11 | <0.1 | <0.01 | 4.7 | <0.1 | 0.22 | 5 | <0.5 | 3 | <0.2 |
| 1238137 | Soil | | 17 | 0.31 | 103 | 0.010 | <1 | 0.69 | 0.004 | 0.04 | 0.3 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238138 | Soil | | 22 | 0.31 | 162 | 0.025 | <1 | 1.14 | 0.004 | 0.04 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238139 | Soil | | 20 | 0.30 | 156 | 0.024 | <1 | 1.17 | 0.004 | 0.03 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238140 | Soil | | 18 | 0.27 | 91 | 0.013 | 1 | 0.70 | 0.004 | 0.04 | 0.7 | 0.11 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238275 | Soil | 0.7 | 28.3 | 19.8 | 66 | <0.1 | 21.8 | 8.8 | 163 | 2.56 | 6.1 | 1.6 | 13.8 | 11 | <0.1 | 2.1 | 0.2 | 11 | 0.02 | 0.024 | 41 |
| 1238276 | Soil | 0.8 | 24.4 | 18.7 | 65 | <0.1 | 24.3 | 11.8 | 363 | 2.69 | 8.7 | 1.5 | 6.1 | 10 | <0.1 | 0.7 | 0.1 | 18 | 0.09 | 0.036 | 32 |
| 1238277 | Soil | 0.8 | 35.1 | 14.2 | 70 | 0.1 | 25.2 | 10.2 | 468 | 2.46 | 15.2 | 2.8 | 3.7 | 18 | <0.1 | 1.4 | 0.1 | 34 | 0.15 | 0.052 | 18 |
| 1238278 | Soil | 0.7 | 25.0 | 10.9 | 56 | <0.1 | 19.0 | 7.6 | 295 | 1.79 | 11.2 | 4.5 | 4.7 | 10 | 0.1 | 1.1 | <0.1 | 23 | 0.10 | 0.048 | 19 |
| 1238279 | Soil | 0.8 | 17.3 | 13.3 | 49 | <0.1 | 14.6 | 5.7 | 175 | 2.12 | 10.0 | 2.8 | 1.7 | 12 | <0.1 | 1.0 | 0.1 | 28 | 0.08 | 0.045 | 23 |
| 1238280 | Soil | 0.9 | 16.9 | 13.9 | 50 | <0.1 | 15.9 | 6.7 | 177 | 2.20 | 10.7 | 1.7 | 5.5 | 8 | <0.1 | 0.7 | 0.1 | 29 | 0.06 | 0.031 | 21 |
| 1238281 | Soil | 0.8 | 24.7 | 15.1 | 50 | <0.1 | 19.6 | 8.2 | 209 | 2.41 | 11.8 | 1.1 | 7.8 | 9 | <0.1 | 0.9 | 0.1 | 37 | 0.06 | 0.025 | 22 |
| 1238282 | Soil | 0.6 | 30.6 | 17.7 | 60 | <0.1 | 23.3 | 10.9 | 274 | 2.71 | 6.7 | 0.9 | 12.6 | 9 | <0.1 | 0.9 | 0.2 | 24 | 0.04 | 0.025 | 37 |
| 1238283 | Soil | 0.9 | 27.7 | 16.8 | 60 | <0.1 | 17.3 | 7.2 | 159 | 2.78 | 10.9 | 1.6 | 3.6 | 7 | <0.1 | 0.7 | 0.2 | 24 | 0.04 | 0.030 | 19 |
| 1238284 | Soil | 1.3 | 37.9 | 17.4 | 66 | <0.1 | 25.0 | 12.5 | 256 | 2.95 | 11.3 | 1.6 | 11.9 | 9 | <0.1 | 0.6 | 0.2 | 20 | 0.03 | 0.025 | 32 |
| 1238285 | Soil | 1.1 | 22.0 | 17.6 | 58 | <0.1 | 16.1 | 6.9 | 194 | 2.69 | 11.5 | <0.5 | 6.8 | 10 | <0.1 | 0.7 | 0.2 | 41 | 0.07 | 0.033 | 19 |
| 1238286 | Soil | 0.9 | 30.2 | 25.3 | 54 | <0.1 | 21.1 | 10.3 | 203 | 2.73 | 9.8 | 3.1 | 6.0 | 8 | <0.1 | 0.6 | 0.2 | 20 | 0.04 | 0.031 | 38 |
| 1238287 | Soil | 0.9 | 16.7 | 14.1 | 48 | <0.1 | 16.5 | 7.1 | 163 | 2.25 | 12.9 | 13.1 | 5.8 | 7 | <0.1 | 0.9 | 0.2 | 37 | 0.06 | 0.028 | 18 |
| 1238288 | Soil | 1.1 | 25.9 | 17.2 | 64 | <0.1 | 23.5 | 10.1 | 250 | 2.90 | 16.4 | 15.9 | 6.8 | 8 | 0.1 | 1.2 | 0.3 | 31 | 0.06 | 0.042 | 19 |
| 1238289 | Soil | 1.0 | 34.5 | 15.3 | 68 | <0.1 | 26.5 | 10.1 | 378 | 2.63 | 11.2 | 2.2 | 6.5 | 15 | 0.1 | 0.9 | 0.2 | 30 | 0.13 | 0.050 | 21 |
| 1238290 | Soil | 0.8 | 36.1 | 12.2 | 64 | <0.1 | 22.6 | 10.8 | 368 | 2.31 | 14.8 | 3.5 | 5.5 | 10 | 0.1 | 1.1 | 0.1 | 33 | 0.10 | 0.048 | 20 |
| 1238291 | Soil | 0.7 | 24.7 | 11.1 | 53 | <0.1 | 19.1 | 8.6 | 230 | 2.04 | 13.8 | 2.7 | 4.6 | 9 | 0.1 | 1.0 | 0.1 | 29 | 0.10 | 0.051 | 16 |
| 1238292 | Soil | 0.7 | 27.4 | 14.4 | 55 | <0.1 | 23.0 | 10.4 | 321 | 2.38 | 13.9 | 2.2 | 7.6 | 8 | 0.2 | 0.9 | 0.2 | 32 | 0.08 | 0.037 | 18 |
| 1238293 | Soil | 0.7 | 25.5 | 14.4 | 54 | <0.1 | 21.5 | 8.9 | 288 | 2.20 | 11.0 | 3.7 | 6.6 | 10 | 0.1 | 1.9 | 0.1 | 29 | 0.09 | 0.036 | 24 |
| 1238294 | Soil | 0.7 | 31.5 | 12.8 | 62 | <0.1 | 20.4 | 9.3 | 304 | 2.15 | 11.6 | 12.0 | 5.5 | 12 | 0.1 | 1.1 | <0.1 | 35 | 0.11 | 0.051 | 20 |
| 1238295 | Soil | 0.4 | 33.1 | 21.1 | 67 | 0.1 | 26.6 | 11.9 | 297 | 2.64 | 7.7 | 1.4 | 13.9 | 14 | 0.1 | 2.8 | 0.3 | 14 | 0.09 | 0.041 | 41 |
| 1238296 | Soil | 0.7 | 16.9 | 9.1 | 51 | <0.1 | 15.3 | 6.0 | 192 | 1.86 | 9.4 | 14.5 | 1.8 | 11 | <0.1 | 0.7 | <0.1 | 31 | 0.13 | 0.051 | 14 |
| 1238297 | Soil | 0.6 | 17.1 | 9.4 | 45 | <0.1 | 15.0 | 5.6 | 160 | 1.72 | 10.5 | 2.6 | 2.4 | 10 | <0.1 | 0.8 | <0.1 | 30 | 0.10 | 0.048 | 15 |
| 1238298 | Soil | 0.6 | 20.3 | 9.5 | 49 | <0.1 | 15.3 | 5.7 | 170 | 1.74 | 10.3 | 7.4 | 2.9 | 10 | <0.1 | 0.8 | <0.1 | 28 | 0.11 | 0.046 | 15 |
| 1238299 | Soil | 0.6 | 14.1 | 12.8 | 37 | <0.1 | 9.5 | 3.4 | 108 | 2.05 | 6.8 | 2.3 | 0.7 | 6 | <0.1 | 0.4 | 0.1 | 24 | 0.04 | 0.035 | 22 |
| 1238300 | Soil | 0.8 | 23.4 | 20.3 | 53 | <0.1 | 17.7 | 7.4 | 171 | 2.60 | 11.0 | 23.8 | 6.9 | 10 | <0.1 | 1.6 | 0.2 | 31 | 0.06 | 0.044 | 29 |
| 1238301 | Soil | 0.7 | 31.7 | 16.9 | 62 | 0.1 | 25.7 | 10.5 | 271 | 2.42 | 6.6 | 7.9 | 9.0 | 16 | <0.1 | 1.0 | 0.2 | 22 | 0.16 | 0.048 | 36 |
| 1238302 | Soil | 0.7 | 29.1 | 16.9 | 68 | <0.1 | 23.7 | 9.4 | 192 | 2.66 | 6.4 | 1.2 | 13.1 | 9 | <0.1 | 0.7 | 0.2 | 15 | 0.07 | 0.038 | 46 |
| 1238303 | Soil | 0.8 | 27.1 | 13.4 | 52 | <0.1 | 17.4 | 8.4 | 266 | 2.36 | 11.8 | 2.0 | 6.2 | 10 | <0.1 | 0.9 | 0.1 | 41 | 0.06 | 0.016 | 16 |
| 1238304 | Soil | 1.0 | 22.1 | 17.4 | 56 | <0.1 | 15.2 | 7.6 | 234 | 2.65 | 9.9 | 4.7 | 8.9 | 9 | <0.1 | 0.6 | 0.2 | 45 | 0.05 | 0.029 | 21 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238275 | Soil | | 9 | 0.10 | 46 | 0.003 | <1 | 0.40 | 0.005 | 0.04 | <0.1 | 0.04 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238276 | Soil | | 12 | 0.23 | 78 | 0.008 | <1 | 0.68 | 0.003 | 0.03 | 0.2 | 0.02 | 1.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238277 | Soil | | 21 | 0.36 | 384 | 0.024 | <1 | 1.09 | 0.006 | 0.04 | 0.2 | 0.06 | 3.6 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238278 | Soil | | 14 | 0.26 | 119 | 0.023 | <1 | 0.75 | 0.004 | 0.03 | 0.2 | 0.02 | 2.5 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1238279 | Soil | | 18 | 0.30 | 131 | 0.013 | <1 | 1.03 | 0.005 | 0.03 | 0.2 | 0.04 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238280 | Soil | | 19 | 0.30 | 115 | 0.017 | <1 | 1.06 | 0.005 | 0.03 | 0.2 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238281 | Soil | | 23 | 0.36 | 140 | 0.032 | <1 | 1.43 | 0.007 | 0.04 | 0.2 | 0.04 | 3.9 | <0.1 | <0.05 | 4 | 0.8 | <1 | <0.2 |
| 1238282 | Soil | | 20 | 0.39 | 109 | 0.014 | <1 | 1.22 | 0.013 | 0.04 | 0.1 | 0.03 | 3.6 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238283 | Soil | | 20 | 0.45 | 78 | 0.010 | <1 | 1.23 | 0.004 | 0.03 | 0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238284 | Soil | | 16 | 0.35 | 113 | 0.009 | <1 | 1.06 | 0.004 | 0.04 | 0.1 | 0.02 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238285 | Soil | | 25 | 0.38 | 162 | 0.028 | 1 | 1.41 | 0.008 | 0.05 | 0.2 | 0.03 | 3.9 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238286 | Soil | | 14 | 0.26 | 122 | 0.007 | <1 | 0.90 | 0.006 | 0.03 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 9 | <0.2 |
| 1238287 | Soil | | 20 | 0.28 | 115 | 0.029 | 1 | 1.18 | 0.004 | 0.03 | 0.3 | 0.01 | 2.3 | <0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1238288 | Soil | | 21 | 0.36 | 135 | 0.029 | 2 | 1.17 | 0.006 | 0.05 | 0.3 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238289 | Soil | | 19 | 0.41 | 236 | 0.026 | 2 | 1.08 | 0.008 | 0.05 | 0.3 | 0.04 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238290 | Soil | | 20 | 0.32 | 189 | 0.030 | 1 | 1.01 | 0.014 | 0.04 | 0.4 | 0.04 | 4.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238291 | Soil | | 18 | 0.30 | 91 | 0.030 | <1 | 0.98 | 0.004 | 0.03 | 0.3 | 0.02 | 2.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238292 | Soil | | 20 | 0.33 | 144 | 0.033 | 1 | 1.07 | 0.005 | 0.03 | 0.2 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238293 | Soil | | 17 | 0.25 | 121 | 0.023 | <1 | 0.94 | 0.004 | 0.03 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238294 | Soil | | 19 | 0.33 | 146 | 0.033 | <1 | 1.02 | 0.006 | 0.03 | 0.3 | 0.06 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238295 | Soil | | 12 | 0.24 | 78 | 0.008 | 2 | 0.71 | 0.005 | 0.12 | <0.1 | 0.05 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238296 | Soil | | 17 | 0.29 | 111 | 0.021 | <1 | 0.91 | 0.005 | 0.03 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238297 | Soil | | 17 | 0.28 | 94 | 0.026 | <1 | 0.84 | 0.006 | 0.03 | 0.4 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238298 | Soil | | 17 | 0.27 | 98 | 0.025 | <1 | 0.85 | 0.004 | 0.02 | 0.3 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238299 | Soil | | 15 | 0.26 | 68 | 0.006 | <1 | 0.86 | 0.003 | 0.02 | 0.2 | 0.02 | 0.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238300 | Soil | | 16 | 0.23 | 77 | 0.017 | 1 | 0.81 | 0.004 | 0.04 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238301 | Soil | | 14 | 0.29 | 223 | 0.008 | <1 | 0.84 | 0.004 | 0.03 | 0.3 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238302 | Soil | | 12 | 0.30 | 68 | 0.005 | <1 | 0.71 | 0.003 | 0.03 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238303 | Soil | | 25 | 0.39 | 144 | 0.039 | 1 | 1.45 | 0.006 | 0.04 | 0.2 | 0.09 | 5.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238304 | Soil | | 26 | 0.39 | 110 | 0.027 | <1 | 1.63 | 0.007 | 0.04 | 0.2 | 0.03 | 3.2 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238305 | Soil | 0.7 | 39.5 | 24.9 | 62 | <0.1 | 20.8 | 8.6 | 181 | 2.84 | 8.8 | 3.8 | 17.4 | 9 | <0.1 | 0.4 | 0.3 | 18 | 0.03 | 0.025 | 38 |
| 1238306 | Soil | 1.2 | 20.6 | 14.6 | 51 | 0.1 | 17.4 | 9.6 | 215 | 2.44 | 10.1 | 0.7 | 6.9 | 9 | 0.1 | 0.8 | 0.2 | 47 | 0.06 | 0.025 | 21 |
| 1238307 | Soil | 1.3 | 16.8 | 20.7 | 52 | 0.1 | 9.6 | 5.4 | 145 | 2.74 | 7.2 | 13.6 | 10.4 | 11 | <0.1 | 0.5 | 0.3 | 43 | 0.04 | 0.035 | 36 |
| 1238308 | Soil | 1.1 | 21.6 | 16.5 | 51 | 0.2 | 18.3 | 9.0 | 165 | 2.55 | 9.0 | <0.5 | 9.7 | 9 | <0.1 | 0.6 | 0.2 | 39 | 0.05 | 0.024 | 26 |
| 1238309 | Soil | 1.0 | 34.8 | 26.3 | 61 | 0.1 | 17.8 | 8.1 | 194 | 3.00 | 11.2 | 2.8 | 14.6 | 12 | <0.1 | 0.6 | 0.4 | 30 | 0.04 | 0.025 | 29 |
| 1238310 | Soil | 1.0 | 32.6 | 21.5 | 66 | 0.2 | 23.3 | 8.4 | 177 | 3.03 | 7.8 | 1.0 | 16.0 | 10 | <0.1 | 0.5 | 0.2 | 27 | 0.03 | 0.024 | 34 |
| 1238311 | Soil | 1.0 | 36.3 | 18.9 | 54 | 0.5 | 41.4 | 14.0 | 193 | 2.80 | 16.1 | 1.5 | 12.3 | 13 | <0.1 | 0.6 | 0.2 | 34 | 0.06 | 0.033 | 27 |
| 1238312 | Soil | 0.8 | 36.0 | 19.4 | 55 | <0.1 | 21.9 | 8.1 | 179 | 2.66 | 11.8 | 4.4 | 12.9 | 10 | <0.1 | 0.6 | 0.2 | 29 | 0.03 | 0.021 | 35 |
| 1238313 | Soil | 0.8 | 45.6 | 28.3 | 77 | <0.1 | 29.1 | 12.6 | 266 | 3.25 | 7.6 | 1.2 | 18.5 | 17 | <0.1 | 0.5 | 0.2 | 27 | 0.03 | 0.022 | 52 |
| 1238314 | Soil | 0.6 | 26.5 | 11.4 | 51 | <0.1 | 15.3 | 7.4 | 235 | 2.14 | 10.4 | 9.3 | 5.3 | 9 | <0.1 | 0.7 | 0.1 | 40 | 0.07 | 0.018 | 16 |
| 1238315 | Soil | 0.9 | 33.3 | 20.0 | 57 | <0.1 | 19.8 | 7.6 | 165 | 2.73 | 11.3 | 1.8 | 15.4 | 8 | 0.1 | 0.7 | 0.2 | 30 | 0.03 | 0.018 | 29 |
| 1238316 | Soil | 1.0 | 17.6 | 14.4 | 48 | <0.1 | 15.9 | 6.8 | 171 | 2.41 | 10.7 | 0.8 | 7.0 | 9 | <0.1 | 0.6 | 0.1 | 44 | 0.05 | 0.021 | 20 |
| 1238317 | Soil | 1.3 | 27.4 | 15.6 | 55 | <0.1 | 18.3 | 7.9 | 188 | 2.47 | 10.0 | 2.5 | 9.9 | 9 | <0.1 | 0.8 | 0.1 | 36 | 0.04 | 0.016 | 25 |
| 1238318 | Soil | 0.7 | 27.8 | 50.1 | 84 | <0.1 | 21.0 | 8.0 | 192 | 2.18 | 14.1 | 3.6 | 7.6 | 9 | <0.1 | 1.1 | 0.1 | 33 | 0.05 | 0.018 | 23 |
| 1238319 | Soil | 0.8 | 23.5 | 12.8 | 51 | <0.1 | 16.5 | 6.9 | 171 | 2.29 | 8.0 | 6.3 | 8.5 | 9 | <0.1 | 0.7 | 0.1 | 34 | 0.06 | 0.017 | 22 |
| 1238320 | Soil | 0.7 | 12.3 | 10.9 | 48 | <0.1 | 13.2 | 5.6 | 189 | 1.92 | 9.5 | <0.5 | 4.4 | 10 | 0.1 | 1.2 | <0.1 | 32 | 0.08 | 0.029 | 14 |
| 1238321 | Soil | 0.6 | 14.7 | 11.2 | 38 | 0.1 | 15.1 | 5.4 | 143 | 1.83 | 8.9 | <0.5 | 4.5 | 10 | <0.1 | 2.5 | <0.1 | 33 | 0.09 | 0.018 | 14 |
| 1238322 | Soil | 0.4 | 32.6 | 20.4 | 62 | <0.1 | 27.4 | 12.1 | 350 | 2.77 | 6.3 | 1.8 | 14.6 | 32 | <0.1 | 2.6 | 0.2 | 24 | 0.24 | 0.030 | 36 |
| 1238323 | Soil | 0.8 | 31.2 | 14.6 | 66 | <0.1 | 22.3 | 8.3 | 224 | 2.40 | 9.9 | 2.5 | 8.4 | 32 | <0.1 | 2.4 | 0.2 | 33 | 0.27 | 0.022 | 21 |
| 1238324 | Soil | 1.0 | 35.7 | 19.8 | 86 | <0.1 | 29.0 | 11.5 | 379 | 2.98 | 24.0 | 4.3 | 10.2 | 27 | 0.1 | 3.6 | 0.3 | 36 | 0.25 | 0.031 | 25 |
| 1238325 | Soil | 0.6 | 27.3 | 11.6 | 48 | 0.1 | 22.2 | 8.6 | 338 | 2.11 | 16.7 | 3.9 | 4.9 | 32 | <0.1 | 1.7 | 0.2 | 29 | 0.36 | 0.047 | 16 |
| 1238326 | Soil | 1.0 | 26.9 | 18.6 | 60 | <0.1 | 25.7 | 11.3 | 420 | 2.70 | 14.9 | 3.0 | 8.5 | 46 | 0.2 | 3.7 | 0.3 | 32 | 0.44 | 0.034 | 24 |
| 1238327 | Soil | 0.7 | 24.5 | 17.7 | 60 | <0.1 | 26.1 | 11.7 | 479 | 2.84 | 12.7 | 4.2 | 7.0 | 60 | 0.2 | 2.5 | 0.3 | 37 | 0.54 | 0.028 | 22 |
| 1238328 | Soil | 0.6 | 31.1 | 18.0 | 58 | <0.1 | 26.5 | 10.7 | 321 | 2.64 | 16.7 | 2.8 | 6.4 | 73 | 0.1 | 4.1 | 0.2 | 24 | 0.85 | 0.040 | 25 |
| 1238329 | Soil | 0.7 | 28.2 | 20.6 | 62 | <0.1 | 24.5 | 9.4 | 259 | 2.56 | 24.5 | 4.1 | 9.6 | 37 | 0.1 | 3.4 | 0.3 | 30 | 0.38 | 0.029 | 27 |
| 1238330 | Soil | 1.6 | 38.2 | 27.5 | 75 | <0.1 | 31.5 | 12.6 | 196 | 3.46 | 13.0 | 5.2 | 18.7 | 32 | <0.1 | 2.8 | 0.3 | 14 | 0.16 | 0.039 | 50 |
| 1238331 | Soil | 1.1 | 29.7 | 20.3 | 67 | <0.1 | 26.0 | 11.7 | 196 | 3.08 | 36.7 | 3.0 | 17.4 | 17 | <0.1 | 16.8 | 0.3 | 12 | 0.14 | 0.034 | 56 |
| 1238332 | Soil | 1.0 | 34.7 | 24.9 | 67 | 0.1 | 26.7 | 11.0 | 286 | 2.77 | 37.3 | 3.4 | 13.7 | 37 | <0.1 | 7.4 | 0.3 | 20 | 0.39 | 0.048 | 40 |
| 1238333 | Soil | 1.1 | 35.7 | 25.5 | 70 | 0.1 | 28.1 | 12.6 | 320 | 3.11 | 32.3 | 4.3 | 13.3 | 48 | 0.1 | 3.7 | 0.3 | 19 | 0.51 | 0.047 | 39 |
| 1238334 | Soil | 0.7 | 40.5 | 23.6 | 69 | 0.1 | 29.0 | 13.1 | 584 | 2.97 | 22.0 | 4.4 | 9.4 | 51 | 0.1 | 12.0 | 0.3 | 18 | 0.62 | 0.044 | 29 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238305 | Soil | | 19 | 0.50 | 53 | 0.008 | <1 | 1.36 | 0.004 | 0.03 | <0.1 | 0.02 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238306 | Soil | | 27 | 0.42 | 137 | 0.042 | <1 | 1.73 | 0.006 | 0.04 | 0.2 | 0.02 | 3.4 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238307 | Soil | | 23 | 0.39 | 92 | 0.017 | <1 | 1.73 | 0.005 | 0.04 | <0.1 | 0.02 | 2.4 | 0.1 | <0.05 | 6 | <0.5 | <1 | <0.2 |
| 1238308 | Soil | | 22 | 0.36 | 106 | 0.018 | <1 | 1.55 | 0.005 | 0.03 | 0.1 | 0.02 | 2.3 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238309 | Soil | | 22 | 0.47 | 74 | 0.014 | <1 | 1.57 | 0.004 | 0.03 | 0.1 | 0.02 | 2.3 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238310 | Soil | | 20 | 0.42 | 75 | 0.018 | <1 | 1.53 | 0.006 | 0.04 | <0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238311 | Soil | | 34 | 0.49 | 125 | 0.014 | <1 | 1.72 | 0.005 | 0.04 | 0.1 | 0.04 | 2.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238312 | Soil | | 23 | 0.48 | 88 | 0.015 | <1 | 1.36 | 0.004 | 0.03 | 0.1 | 0.03 | 2.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238313 | Soil | | 27 | 0.67 | 86 | 0.014 | <1 | 1.67 | 0.007 | 0.04 | <0.1 | 0.04 | 3.9 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238314 | Soil | | 23 | 0.36 | 185 | 0.034 | <1 | 1.35 | 0.007 | 0.03 | 0.2 | 0.05 | 3.9 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238315 | Soil | | 23 | 0.43 | 102 | 0.017 | <1 | 1.38 | 0.005 | 0.04 | 0.1 | 0.02 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238316 | Soil | | 27 | 0.38 | 123 | 0.026 | <1 | 1.52 | 0.005 | 0.03 | 0.2 | 0.02 | 2.9 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238317 | Soil | | 24 | 0.41 | 122 | 0.019 | <1 | 1.44 | 0.005 | 0.04 | 0.1 | 0.03 | 3.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238318 | Soil | | 26 | 0.39 | 100 | 0.023 | <1 | 1.17 | 0.004 | 0.04 | 0.1 | 0.04 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238319 | Soil | | 23 | 0.40 | 138 | 0.017 | <1 | 1.34 | 0.005 | 0.04 | 0.2 | 0.01 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238320 | Soil | | 17 | 0.27 | 139 | 0.017 | <1 | 0.96 | 0.004 | 0.06 | 0.2 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238321 | Soil | | 19 | 0.25 | 124 | 0.018 | <1 | 0.95 | 0.004 | 0.05 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238322 | Soil | | 23 | 0.61 | 132 | 0.006 | <1 | 1.44 | 0.005 | 0.06 | <0.1 | 0.02 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238323 | Soil | | 22 | 0.36 | 258 | 0.019 | <1 | 1.24 | 0.007 | 0.06 | 0.1 | 0.06 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238324 | Soil | | 25 | 0.45 | 225 | 0.020 | 1 | 1.52 | 0.008 | 0.07 | 0.3 | 0.03 | 4.1 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238325 | Soil | | 18 | 0.33 | 201 | 0.023 | 1 | 0.87 | 0.010 | 0.04 | 0.3 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238326 | Soil | | 20 | 0.31 | 233 | 0.009 | 1 | 1.29 | 0.007 | 0.06 | 0.3 | 0.03 | 3.8 | <0.1 | <0.05 | 4 | 0.5 | 1 | <0.2 |
| 1238327 | Soil | | 22 | 0.36 | 236 | 0.012 | 1 | 1.30 | 0.010 | 0.06 | 0.2 | 0.03 | 4.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238328 | Soil | | 17 | 0.31 | 163 | 0.008 | 2 | 0.99 | 0.007 | 0.07 | 0.2 | 0.04 | 2.8 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238329 | Soil | | 22 | 0.39 | 192 | 0.013 | <1 | 1.30 | 0.008 | 0.07 | 0.3 | 0.02 | 3.4 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238330 | Soil | | 16 | 0.59 | 75 | 0.001 | <1 | 1.40 | 0.004 | 0.09 | <0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 5 | 0.5 | <1 | <0.2 |
| 1238331 | Soil | | 10 | 0.15 | 90 | 0.001 | <1 | 0.69 | 0.003 | 0.10 | 0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238332 | Soil | | 16 | 0.30 | 179 | 0.006 | 1 | 0.98 | 0.007 | 0.08 | 0.2 | 0.05 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238333 | Soil | | 15 | 0.34 | 169 | 0.007 | 1 | 0.99 | 0.006 | 0.08 | 0.2 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238334 | Soil | | 16 | 0.29 | 150 | 0.007 | 1 | 0.86 | 0.006 | 0.11 | 0.2 | 0.07 | 2.6 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238335 | Soil | 0.6 | 36.5 | 22.3 | 72 | 0.1 | 29.2 | 12.4 | 434 | 2.84 | 16.3 | 2.7 | 10.2 | 49 | 0.2 | 11.0 | 0.3 | 18 | 0.61 | 0.054 | 28 |
| 1238336 | Soil | 0.6 | 37.8 | 21.9 | 74 | 0.1 | 29.9 | 12.5 | 422 | 2.91 | 17.6 | 5.2 | 10.6 | 44 | 0.2 | 11.5 | 0.3 | 19 | 0.61 | 0.054 | 30 |
| 1238337 | Soil | 0.8 | 27.7 | 14.1 | 59 | <0.1 | 22.7 | 9.5 | 289 | 2.68 | 9.0 | 6.1 | 8.3 | 11 | <0.1 | 1.0 | 0.1 | 37 | 0.07 | 0.020 | 25 |
| 1238338 | Soil | 0.7 | 16.6 | 9.9 | 44 | <0.1 | 14.8 | 6.1 | 221 | 1.88 | 10.8 | 10.7 | 3.7 | 11 | 0.1 | 0.7 | 0.1 | 36 | 0.11 | 0.041 | 15 |
| 1238339 | Soil | 0.7 | 24.1 | 9.9 | 48 | <0.1 | 18.8 | 6.6 | 163 | 2.14 | 12.1 | 9.3 | 5.9 | 8 | <0.1 | 0.9 | <0.1 | 36 | 0.06 | 0.017 | 14 |
| 1238340 | Soil | 0.8 | 24.5 | 11.9 | 48 | <0.1 | 16.9 | 9.1 | 276 | 2.10 | 8.4 | 3.3 | 6.6 | 8 | <0.1 | 1.1 | <0.1 | 30 | 0.05 | 0.022 | 20 |
| 1238341 | Soil | 0.8 | 22.4 | 10.6 | 46 | <0.1 | 16.3 | 6.7 | 205 | 2.06 | 6.9 | 7.3 | 6.9 | 9 | <0.1 | 0.8 | <0.1 | 30 | 0.06 | 0.020 | 20 |
| 1238342 | Soil | 0.7 | 18.3 | 10.3 | 43 | <0.1 | 15.0 | 6.0 | 163 | 1.92 | 9.9 | 3.2 | 5.2 | 8 | <0.1 | 0.9 | <0.1 | 32 | 0.05 | 0.020 | 16 |
| 1238343 | Soil | 0.8 | 22.5 | 12.5 | 48 | <0.1 | 20.0 | 8.8 | 225 | 2.19 | 13.7 | 2.3 | 7.5 | 8 | <0.1 | 3.2 | <0.1 | 31 | 0.05 | 0.016 | 20 |
| 1238344 | Soil | 0.9 | 28.6 | 17.7 | 53 | <0.1 | 19.7 | 8.5 | 202 | 2.54 | 10.8 | 2.5 | 10.9 | 8 | <0.1 | 5.7 | 0.2 | 21 | 0.04 | 0.026 | 32 |
| 1238345 | Soil | 1.0 | 30.9 | 14.8 | 54 | <0.1 | 17.6 | 8.2 | 236 | 2.41 | 10.5 | 1.6 | 8.0 | 8 | <0.1 | 2.7 | 0.2 | 24 | 0.04 | 0.021 | 20 |
| 1238346 | Soil | 0.8 | 25.6 | 18.0 | 51 | <0.1 | 14.6 | 5.7 | 146 | 2.42 | 8.1 | 4.0 | 9.3 | 8 | <0.1 | 1.7 | 0.2 | 22 | 0.03 | 0.025 | 24 |
| 1238347 | Soil | 0.7 | 16.1 | 12.2 | 43 | <0.1 | 14.5 | 6.1 | 179 | 1.96 | 9.7 | 36.1 | 5.2 | 13 | <0.1 | 0.9 | <0.1 | 34 | 0.12 | 0.023 | 15 |
| 1238348 | Soil | 0.5 | 56.9 | 22.7 | 90 | <0.1 | 38.9 | 14.8 | 394 | 4.03 | 12.2 | 1.6 | 20.0 | 11 | <0.1 | 10.6 | 0.3 | 15 | 0.05 | 0.036 | 46 |
| 1238349 | Soil | 0.7 | 35.1 | 17.9 | 69 | <0.1 | 27.7 | 11.8 | 276 | 2.99 | 14.5 | 4.1 | 15.3 | 11 | <0.1 | 4.4 | 0.2 | 16 | 0.05 | 0.025 | 40 |
| 1238350 | Soil | 0.7 | 30.4 | 16.4 | 64 | <0.1 | 22.7 | 9.2 | 264 | 2.72 | 10.5 | 3.9 | 12.2 | 12 | <0.1 | 2.7 | 0.2 | 21 | 0.08 | 0.026 | 37 |
| 1238351 | Soil | 0.7 | 30.0 | 16.9 | 60 | <0.1 | 23.3 | 10.9 | 384 | 2.65 | 8.7 | 3.2 | 9.5 | 42 | <0.1 | 1.9 | 0.2 | 23 | 0.40 | 0.052 | 31 |
| 1238352 | Soil | 0.8 | 29.0 | 13.9 | 59 | 0.1 | 22.6 | 8.1 | 252 | 2.28 | 7.8 | 1.9 | 8.2 | 30 | <0.1 | 1.4 | 0.1 | 27 | 0.28 | 0.049 | 27 |
| 1238353 | Soil | 0.7 | 25.2 | 10.9 | 56 | <0.1 | 20.5 | 7.3 | 217 | 2.16 | 7.1 | 11.0 | 8.5 | 22 | <0.1 | 1.1 | 0.1 | 25 | 0.21 | 0.041 | 27 |
| 1238354 | Soil | 0.6 | 21.8 | 13.5 | 49 | <0.1 | 16.4 | 7.3 | 198 | 2.17 | 7.8 | 2.9 | 9.2 | 16 | <0.1 | 1.0 | 0.1 | 26 | 0.14 | 0.038 | 29 |
| 1238355 | Soil | 0.7 | 30.0 | 14.8 | 61 | 0.1 | 22.6 | 8.1 | 270 | 2.42 | 9.2 | 5.7 | 10.6 | 20 | <0.1 | 1.6 | 0.3 | 22 | 0.20 | 0.050 | 32 |
| 1238356 | Soil | 0.7 | 28.1 | 15.8 | 49 | 0.1 | 22.1 | 8.9 | 293 | 2.12 | 8.0 | 4.3 | 6.5 | 36 | <0.1 | 1.3 | 0.2 | 26 | 0.34 | 0.047 | 25 |
| 1238357 | Soil | 0.7 | 22.2 | 13.3 | 46 | 0.1 | 17.6 | 8.3 | 379 | 1.99 | 8.0 | 2.2 | 4.9 | 48 | <0.1 | 1.3 | 0.2 | 24 | 0.52 | 0.053 | 21 |
| 1238358 | Soil | 0.6 | 22.4 | 12.6 | 48 | 0.1 | 15.8 | 6.1 | 235 | 1.88 | 7.0 | 10.6 | 4.2 | 57 | <0.1 | 1.1 | 0.1 | 23 | 0.58 | 0.050 | 20 |
| 1238359 | Soil | 0.9 | 28.4 | 14.3 | 53 | 0.1 | 21.5 | 7.8 | 195 | 2.30 | 8.3 | 7.1 | 8.2 | 27 | 0.1 | 1.1 | 0.2 | 27 | 0.27 | 0.041 | 26 |
| 1238360 | Soil | 1.0 | 28.3 | 12.8 | 52 | 0.1 | 24.7 | 8.4 | 249 | 2.40 | 7.7 | 2.7 | 8.0 | 18 | <0.1 | 0.9 | 0.2 | 29 | 0.23 | 0.036 | 27 |
| 1238361 | Soil | 0.8 | 28.2 | 13.9 | 51 | 0.1 | 19.6 | 9.3 | 195 | 2.34 | 5.9 | 10.3 | 9.2 | 16 | <0.1 | 0.8 | 0.2 | 28 | 0.21 | 0.039 | 31 |
| 1238362 | Soil | 0.8 | 27.0 | 10.7 | 48 | <0.1 | 19.9 | 9.3 | 232 | 2.40 | 6.9 | 1.8 | 9.2 | 17 | <0.1 | 0.8 | 0.2 | 26 | 0.19 | 0.037 | 30 |
| 1238363 | Soil | 0.9 | 23.0 | 12.1 | 45 | <0.1 | 20.0 | 8.7 | 290 | 2.48 | 8.2 | 11.8 | 8.2 | 21 | <0.1 | 0.8 | 0.2 | 29 | 0.23 | 0.038 | 31 |
| 1238364 | Soil | 0.9 | 24.3 | 12.8 | 49 | 0.1 | 22.2 | 10.3 | 446 | 2.44 | 7.5 | 3.9 | 5.3 | 30 | <0.1 | 0.8 | 0.2 | 28 | 0.34 | 0.048 | 25 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238335 | Soil | 16 | 0.32 | 109 | 0.007 | 2 | 0.89 | 0.006 | 0.12 | 0.1 | 0.05 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238336 | Soil | 17 | 0.33 | 117 | 0.009 | 2 | 0.91 | 0.006 | 0.13 | 0.2 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238337 | Soil | 24 | 0.30 | 189 | 0.027 | <1 | 1.10 | 0.006 | 0.06 | 0.2 | 0.02 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238338 | Soil | 20 | 0.32 | 188 | 0.029 | <1 | 1.02 | 0.005 | 0.04 | 0.2 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238339 | Soil | 23 | 0.34 | 160 | 0.032 | 1 | 1.21 | 0.005 | 0.04 | 0.2 | 0.04 | 3.6 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238340 | Soil | 18 | 0.28 | 185 | 0.026 | <1 | 0.96 | 0.004 | 0.05 | 0.2 | 0.03 | 3.5 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1238341 | Soil | 21 | 0.30 | 171 | 0.025 | <1 | 1.04 | 0.007 | 0.05 | 0.2 | 0.03 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238342 | Soil | 19 | 0.28 | 148 | 0.024 | <1 | 1.06 | 0.005 | 0.04 | 0.2 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238343 | Soil | 20 | 0.30 | 141 | 0.024 | <1 | 1.09 | 0.005 | 0.06 | 0.2 | 0.05 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238344 | Soil | 15 | 0.35 | 120 | 0.011 | <1 | 1.03 | 0.005 | 0.04 | 0.2 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238345 | Soil | 17 | 0.38 | 121 | 0.020 | <1 | 1.00 | 0.005 | 0.04 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238346 | Soil | 16 | 0.33 | 90 | 0.009 | <1 | 1.01 | 0.006 | 0.04 | 0.1 | 0.01 | 1.6 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1238347 | Soil | 19 | 0.30 | 201 | 0.018 | <1 | 1.08 | 0.006 | 0.03 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238348 | Soil | 24 | 0.65 | 103 | 0.003 | 5 | 1.68 | 0.010 | 0.03 | <0.1 | 0.01 | 2.4 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238349 | Soil | 14 | 0.28 | 112 | 0.005 | <1 | 0.88 | 0.006 | 0.04 | <0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238350 | Soil | 17 | 0.36 | 153 | 0.009 | <1 | 1.09 | 0.006 | 0.03 | 0.1 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238351 | Soil | 17 | 0.38 | 219 | 0.009 | <1 | 1.07 | 0.007 | 0.03 | 0.2 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238352 | Soil | 19 | 0.39 | 278 | 0.012 | <1 | 1.19 | 0.007 | 0.04 | 0.1 | 0.04 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238353 | Soil | 18 | 0.38 | 271 | 0.015 | <1 | 1.03 | 0.007 | 0.04 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238354 | Soil | 17 | 0.32 | 194 | 0.012 | <1 | 1.00 | 0.008 | 0.05 | 0.1 | <0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238355 | Soil | 17 | 0.40 | 211 | 0.012 | <1 | 1.02 | 0.008 | 0.04 | 0.2 | 0.04 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238356 | Soil | 18 | 0.36 | 284 | 0.008 | <1 | 1.14 | 0.006 | 0.04 | 0.2 | 0.05 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238357 | Soil | 17 | 0.35 | 245 | 0.008 | <1 | 1.00 | 0.006 | 0.03 | 0.2 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238358 | Soil | 15 | 0.34 | 231 | 0.008 | <1 | 0.96 | 0.007 | 0.04 | 0.2 | 0.04 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238359 | Soil | 20 | 0.39 | 246 | 0.010 | <1 | 1.10 | 0.006 | 0.04 | 0.2 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238360 | Soil | 19 | 0.39 | 241 | 0.013 | <1 | 1.04 | 0.005 | 0.03 | 0.3 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238361 | Soil | 19 | 0.43 | 195 | 0.009 | <1 | 1.07 | 0.005 | 0.03 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238362 | Soil | 18 | 0.43 | 184 | 0.011 | <1 | 0.98 | 0.005 | 0.03 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238363 | Soil | 19 | 0.40 | 198 | 0.011 | <1 | 1.12 | 0.005 | 0.03 | 0.2 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238364 | Soil | 19 | 0.39 | 256 | 0.009 | <1 | 1.08 | 0.006 | 0.03 | 0.3 | 0.04 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238365 | Soil | 0.7 | 17.0 | 11.0 | 50 | <0.1 | 18.9 | 7.8 | 240 | 2.37 | 7.7 | 7.6 | 7.5 | 20 | <0.1 | 0.8 | 0.2 | 29 | 0.23 | 0.030 | 29 |
| 1238366 | Soil | 0.7 | 23.3 | 10.7 | 48 | <0.1 | 21.2 | 8.8 | 244 | 2.41 | 8.6 | 2.3 | 7.9 | 15 | <0.1 | 1.0 | 0.2 | 30 | 0.19 | 0.030 | 26 |
| 1238367 | Soil | 0.7 | 29.8 | 13.5 | 52 | 0.1 | 23.7 | 9.4 | 251 | 2.79 | 10.0 | 3.7 | 8.7 | 16 | <0.1 | 1.2 | 0.2 | 32 | 0.22 | 0.035 | 29 |
| 1238368 | Soil | 0.9 | 24.3 | 12.8 | 50 | <0.1 | 22.7 | 8.5 | 222 | 2.50 | 10.2 | 2.6 | 7.9 | 17 | <0.1 | 1.1 | 0.2 | 40 | 0.22 | 0.025 | 23 |
| 1238369 | Soil | 0.8 | 22.5 | 14.8 | 45 | <0.1 | 19.7 | 8.7 | 260 | 2.51 | 11.7 | 2.3 | 7.8 | 12 | <0.1 | 1.5 | 0.2 | 27 | 0.15 | 0.027 | 30 |
| 1238370 | Soil | 0.7 | 46.2 | 22.7 | 73 | 0.1 | 43.1 | 16.8 | 412 | 3.82 | 15.6 | 14.4 | 17.6 | 18 | <0.1 | 1.5 | 0.3 | 19 | 0.23 | 0.041 | 49 |
| 1238371 | Soil | 0.8 | 25.2 | 13.0 | 52 | <0.1 | 23.5 | 9.7 | 281 | 2.43 | 8.8 | 19.5 | 10.0 | 19 | <0.1 | 1.7 | 0.2 | 28 | 0.30 | 0.036 | 34 |
| 1238372 | Soil | 0.5 | 33.5 | 14.4 | 52 | 0.1 | 29.4 | 10.2 | 498 | 2.35 | 11.5 | 9.6 | 5.7 | 75 | 0.2 | 1.9 | 0.2 | 19 | 1.26 | 0.045 | 23 |
| 1238373 | Soil | 0.6 | 29.6 | 18.7 | 56 | 0.1 | 27.0 | 10.5 | 315 | 2.44 | 17.9 | 2.7 | 9.5 | 22 | 0.2 | 2.5 | 0.2 | 20 | 0.35 | 0.044 | 29 |
| 1238374 | Soil | 0.6 | 26.9 | 17.0 | 48 | 0.1 | 24.1 | 10.8 | 417 | 2.37 | 16.0 | 2.4 | 7.2 | 34 | <0.1 | 1.8 | 0.2 | 20 | 0.64 | 0.040 | 25 |
| 1238402 | Soil | 0.7 | 25.0 | 12.1 | 55 | <0.1 | 23.3 | 8.4 | 213 | 2.25 | 6.5 | 3.9 | 9.3 | 8 | <0.1 | 0.5 | 0.2 | 24 | 0.04 | 0.017 | 24 |
| 1238403 | Soil | 0.6 | 32.5 | 16.6 | 76 | <0.1 | 29.6 | 11.7 | 209 | 2.99 | 4.2 | 2.6 | 12.4 | 10 | <0.1 | 0.1 | 0.3 | 12 | 0.03 | 0.023 | 27 |
| 1238404 | Soil | 0.6 | 29.4 | 13.6 | 66 | <0.1 | 34.3 | 12.6 | 194 | 2.67 | 3.9 | 4.5 | 19.8 | 9 | <0.1 | 0.1 | 0.2 | 8 | 0.03 | 0.019 | 61 |
| 1238405 | Soil | 0.4 | 28.6 | 22.4 | 78 | <0.1 | 28.4 | 10.8 | 217 | 2.53 | 2.3 | 3.8 | 12.4 | 7 | <0.1 | 0.1 | 0.2 | 23 | 0.02 | 0.021 | 39 |
| 1238406 | Soil | 0.6 | 29.1 | 15.1 | 51 | <0.1 | 33.9 | 13.5 | 310 | 2.92 | 7.0 | 2.1 | 6.4 | 13 | <0.1 | 0.2 | 0.2 | 28 | 0.12 | 0.035 | 38 |
| 1238712 | Soil | 0.7 | 43.6 | 22.9 | 79 | 0.1 | 39.8 | 17.3 | 547 | 3.29 | 8.6 | 2.1 | 15.0 | 48 | 0.1 | 1.8 | 0.3 | 17 | 0.49 | 0.046 | 39 |
| 1238713 | Soil | 0.9 | 40.2 | 21.3 | 71 | <0.1 | 33.0 | 12.9 | 367 | 3.07 | 8.0 | 26.1 | 16.8 | 11 | <0.1 | 0.8 | 0.3 | 20 | 0.10 | 0.033 | 50 |
| 1238714 | Soil | 0.5 | 47.5 | 42.2 | 96 | 0.2 | 34.8 | 15.3 | 183 | 3.08 | 5.5 | 5.0 | 23.7 | 26 | <0.1 | 1.8 | 0.5 | 10 | 0.05 | 0.029 | 60 |
| 1238715 | Soil | 1.0 | 26.0 | 10.7 | 51 | <0.1 | 23.0 | 9.5 | 240 | 2.81 | 8.7 | 3.2 | 7.3 | 10 | <0.1 | 0.7 | 0.2 | 46 | 0.08 | 0.022 | 24 |
| 1238716 | Soil | 1.2 | 29.8 | 13.0 | 56 | <0.1 | 24.5 | 9.9 | 247 | 2.78 | 10.9 | 4.5 | 7.5 | 9 | <0.1 | 0.7 | 0.2 | 50 | 0.07 | 0.019 | 22 |
| 1238717 | Soil | 1.2 | 42.6 | 12.2 | 60 | <0.1 | 29.6 | 11.0 | 303 | 2.98 | 12.5 | 3.6 | 11.4 | 13 | <0.1 | 1.0 | 0.3 | 41 | 0.07 | 0.018 | 30 |
| 1238718 | Soil | 1.1 | 24.4 | 13.4 | 53 | <0.1 | 21.5 | 10.6 | 259 | 2.88 | 7.8 | 1.0 | 10.0 | 9 | <0.1 | 0.7 | 0.2 | 52 | 0.07 | 0.020 | 27 |
| 1238719 | Soil | 1.5 | 36.8 | 13.7 | 82 | 0.2 | 29.3 | 11.5 | 429 | 2.84 | 10.1 | 2.0 | 8.0 | 21 | 0.3 | 1.0 | 0.2 | 44 | 0.27 | 0.065 | 24 |
| 1238720 | Soil | 1.1 | 27.3 | 11.2 | 55 | 0.1 | 24.8 | 9.0 | 218 | 2.35 | 7.9 | 2.6 | 6.6 | 19 | 0.1 | 1.6 | 0.2 | 37 | 0.27 | 0.044 | 25 |
| 1238721 | Soil | 0.8 | 20.3 | 8.3 | 54 | 0.1 | 22.4 | 10.0 | 255 | 2.27 | 6.3 | 1.0 | 5.6 | 16 | 0.1 | 0.7 | 0.2 | 38 | 0.22 | 0.044 | 21 |
| 1238722 | Soil | 1.1 | 23.3 | 19.1 | 52 | <0.1 | 22.9 | 8.5 | 291 | 2.52 | 12.7 | 2.1 | 6.3 | 11 | 0.1 | 0.7 | 0.2 | 48 | 0.12 | 0.032 | 19 |
| 1238723 | Soil | 1.1 | 21.1 | 13.9 | 57 | <0.1 | 22.4 | 9.4 | 285 | 2.50 | 9.1 | 2.7 | 8.8 | 10 | <0.1 | 0.7 | 0.2 | 33 | 0.12 | 0.033 | 23 |
| 1238724 | Soil | 1.0 | 28.9 | 18.5 | 64 | 0.1 | 30.2 | 10.5 | 272 | 3.13 | 15.5 | 6.5 | 10.5 | 14 | <0.1 | 0.4 | 0.3 | 24 | 0.21 | 0.050 | 38 |
| 1238725 | Soil | 0.7 | 15.8 | 9.8 | 49 | <0.1 | 18.0 | 6.9 | 168 | 2.19 | 8.3 | 2.0 | 8.0 | 8 | <0.1 | 0.4 | 0.2 | 25 | 0.11 | 0.032 | 30 |
| 1238726 | Soil | 0.7 | 24.4 | 17.4 | 59 | 0.1 | 24.9 | 11.8 | 455 | 2.52 | 9.9 | 3.1 | 7.8 | 15 | <0.1 | 0.5 | 0.2 | 28 | 0.17 | 0.046 | 29 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238365 | Soil | | 20 | 0.41 | 208 | 0.009 | <1 | 1.21 | 0.006 | 0.03 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238366 | Soil | | 19 | 0.39 | 189 | 0.012 | <1 | 1.06 | 0.005 | 0.03 | 0.3 | 0.01 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238367 | Soil | | 21 | 0.40 | 207 | 0.009 | <1 | 1.18 | 0.006 | 0.04 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238368 | Soil | | 24 | 0.43 | 253 | 0.019 | <1 | 1.23 | 0.008 | 0.04 | 0.2 | 0.02 | 3.0 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238369 | Soil | | 18 | 0.35 | 126 | 0.008 | <1 | 0.97 | 0.004 | 0.05 | 0.2 | <0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238370 | Soil | | 20 | 0.51 | 107 | 0.004 | <1 | 1.25 | 0.004 | 0.05 | 0.1 | 0.03 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238371 | Soil | | 17 | 0.33 | 139 | 0.016 | <1 | 0.87 | 0.006 | 0.04 | 0.3 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238372 | Soil | | 17 | 0.33 | 161 | 0.005 | 2 | 0.95 | 0.007 | 0.07 | 0.2 | 0.04 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238373 | Soil | | 18 | 0.32 | 97 | 0.010 | 1 | 0.87 | 0.007 | 0.07 | 0.4 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238374 | Soil | | 16 | 0.31 | 132 | 0.008 | <1 | 0.82 | 0.005 | 0.05 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238402 | Soil | | 15 | 0.22 | 100 | 0.012 | <1 | 0.63 | 0.004 | 0.02 | 0.1 | 0.18 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238403 | Soil | | 15 | 0.44 | 39 | 0.001 | <1 | 0.87 | 0.003 | 0.03 | <0.1 | 0.01 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238404 | Soil | | 8 | 0.08 | 67 | 0.001 | <1 | 0.30 | 0.002 | 0.03 | <0.1 | 0.09 | 1.5 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1238405 | Soil | | 20 | 0.14 | 52 | 0.004 | <1 | 0.55 | 0.003 | 0.03 | <0.1 | 0.04 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238406 | Soil | | 27 | 0.22 | 97 | 0.004 | <1 | 0.71 | 0.004 | 0.07 | <0.1 | 0.04 | 2.2 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238712 | Soil | | 14 | 0.24 | 114 | 0.007 | 2 | 0.73 | 0.006 | 0.12 | 0.2 | 0.06 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238713 | Soil | | 14 | 0.24 | 181 | 0.011 | <1 | 0.59 | 0.004 | 0.03 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238714 | Soil | | 8 | 0.05 | 89 | 0.001 | <1 | 0.26 | 0.007 | 0.06 | <0.1 | 0.03 | 1.9 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1238715 | Soil | | 28 | 0.50 | 167 | 0.032 | <1 | 1.54 | 0.007 | 0.03 | 0.2 | 0.01 | 3.5 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238716 | Soil | | 30 | 0.47 | 184 | 0.037 | <1 | 1.60 | 0.006 | 0.04 | 0.2 | 0.04 | 4.7 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238717 | Soil | | 27 | 0.50 | 225 | 0.035 | <1 | 1.49 | 0.006 | 0.06 | 0.2 | 0.06 | 4.8 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238718 | Soil | | 30 | 0.47 | 184 | 0.041 | <1 | 1.82 | 0.008 | 0.05 | 0.2 | 0.02 | 4.2 | 0.1 | <0.05 | 6 | 0.6 | <1 | <0.2 |
| 1238719 | Soil | | 26 | 0.45 | 413 | 0.033 | <1 | 1.22 | 0.010 | 0.05 | 0.2 | 0.04 | 3.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238720 | Soil | | 23 | 0.42 | 325 | 0.021 | <1 | 1.28 | 0.008 | 0.03 | 0.2 | 0.05 | 3.1 | <0.1 | <0.05 | 4 | 0.5 | <1 | <0.2 |
| 1238721 | Soil | | 23 | 0.43 | 289 | 0.020 | <1 | 1.24 | 0.006 | 0.03 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238722 | Soil | | 27 | 0.34 | 197 | 0.023 | <1 | 1.43 | 0.006 | 0.05 | 0.2 | 0.03 | 2.6 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1238723 | Soil | | 21 | 0.39 | 148 | 0.018 | <1 | 1.15 | 0.005 | 0.03 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238724 | Soil | | 24 | 0.64 | 158 | 0.006 | <1 | 1.63 | 0.005 | 0.04 | <0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238725 | Soil | | 19 | 0.41 | 79 | 0.011 | <1 | 1.07 | 0.004 | 0.03 | 0.2 | 0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238726 | Soil | | 22 | 0.45 | 213 | 0.007 | <1 | 1.36 | 0.005 | 0.04 | 0.1 | 0.04 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238727 | Soil | 0.7 | 25.1 | 19.2 | 62 | 0.1 | 24.1 | 14.2 | 525 | 2.49 | 10.4 | 1.3 | 8.6 | 17 | 0.1 | 0.7 | 0.2 | 25 | 0.19 | 0.044 | 33 |
| 1238728 | Soil | 0.6 | 26.7 | 14.9 | 65 | 0.1 | 27.5 | 11.7 | 404 | 2.49 | 11.9 | 2.2 | 9.0 | 21 | <0.1 | 1.4 | 0.2 | 21 | 0.31 | 0.054 | 28 |
| 1238729 | Soil | 1.0 | 30.0 | 25.7 | 64 | 0.2 | 26.2 | 13.2 | 484 | 2.71 | 25.6 | 2.9 | 9.2 | 18 | 0.3 | 4.9 | 0.3 | 18 | 0.36 | 0.051 | 23 |
| 1238730 | Soil | 1.3 | 37.0 | 18.2 | 76 | 0.2 | 31.8 | 13.4 | 418 | 3.07 | 14.9 | 3.6 | 9.1 | 19 | 0.2 | 1.5 | 0.2 | 36 | 0.38 | 0.066 | 22 |
| 1238905 | Soil | 0.9 | 21.8 | 14.1 | 53 | <0.1 | 18.2 | 6.9 | 186 | 2.45 | 10.8 | 2.6 | 8.3 | 5 | <0.1 | 0.6 | 0.2 | 34 | 0.05 | 0.026 | 25 |
| 1238906 | Soil | 1.0 | 16.9 | 13.1 | 46 | <0.1 | 15.7 | 6.7 | 183 | 2.41 | 8.5 | 2.6 | 7.9 | 6 | <0.1 | 0.5 | 0.2 | 33 | 0.04 | 0.029 | 28 |
| 1238907 | Soil | 0.9 | 33.9 | 18.6 | 63 | <0.1 | 22.0 | 8.9 | 284 | 3.06 | 12.2 | 23.3 | 11.5 | 8 | <0.1 | 0.7 | 0.2 | 31 | 0.05 | 0.031 | 32 |
| 1238908 | Soil | 0.9 | 26.7 | 15.8 | 60 | <0.1 | 26.2 | 10.5 | 234 | 2.85 | 10.2 | 27.2 | 10.6 | 5 | <0.1 | 0.6 | 0.2 | 31 | 0.03 | 0.019 | 27 |
| 1238909 | Soil | 0.9 | 34.9 | 13.2 | 56 | 0.1 | 23.9 | 8.7 | 280 | 2.64 | 15.5 | 6.2 | 6.6 | 7 | <0.1 | 1.4 | 0.2 | 43 | 0.06 | 0.022 | 19 |
| 1238910 | Soil | 0.8 | 33.6 | 16.5 | 65 | <0.1 | 26.2 | 11.1 | 258 | 2.80 | 12.2 | 2.6 | 13.2 | 8 | <0.1 | 2.6 | 0.2 | 23 | 0.03 | 0.020 | 41 |
| 1238911 | Soil | 0.8 | 46.3 | 24.0 | 88 | 0.1 | 39.3 | 18.6 | 358 | 3.77 | 6.9 | 4.1 | 20.3 | 33 | <0.1 | 1.5 | 0.5 | 15 | 0.07 | 0.029 | 54 |
| 1238912 | Soil | 0.8 | 28.0 | 17.2 | 55 | 0.1 | 25.6 | 10.4 | 326 | 2.52 | 7.7 | 52.9 | 9.3 | 28 | <0.1 | 1.9 | 0.3 | 23 | 0.36 | 0.041 | 39 |
| 1238913 | Soil | 0.8 | 21.2 | 14.5 | 53 | 0.2 | 23.5 | 9.0 | 291 | 2.36 | 9.2 | 35.5 | 7.3 | 28 | 0.1 | 1.1 | 0.2 | 25 | 0.50 | 0.049 | 27 |
| 1238914 | Soil | 0.8 | 28.1 | 13.6 | 55 | 0.2 | 29.5 | 9.4 | 325 | 2.57 | 9.2 | 2.3 | 8.4 | 24 | 0.1 | 1.0 | 0.2 | 31 | 0.40 | 0.046 | 31 |
| 1238915 | Soil | 0.7 | 25.4 | 14.6 | 49 | 0.1 | 27.4 | 9.7 | 338 | 2.35 | 8.5 | 4.3 | 7.6 | 22 | <0.1 | 0.8 | 0.2 | 29 | 0.37 | 0.041 | 29 |
| 1238916 | Soil | 0.6 | 23.3 | 15.1 | 55 | <0.1 | 33.8 | 10.2 | 336 | 2.55 | 8.9 | 2.5 | 7.5 | 22 | 0.1 | 0.8 | 0.2 | 31 | 0.31 | 0.049 | 31 |
| 1238917 | Soil | 1.3 | 25.1 | 21.3 | 63 | 0.2 | 34.1 | 11.0 | 294 | 2.53 | 9.8 | 3.6 | 12.2 | 23 | <0.1 | 0.8 | 0.2 | 18 | 0.39 | 0.051 | 42 |
| 1238918 | Soil | 0.6 | 21.0 | 14.3 | 43 | 0.1 | 22.4 | 7.9 | 189 | 2.01 | 7.6 | 119.8 | 5.5 | 38 | 0.2 | 0.6 | 0.1 | 19 | 0.74 | 0.039 | 22 |
| 1238919 | Soil | 0.8 | 27.0 | 17.1 | 66 | 0.2 | 24.1 | 10.1 | 296 | 2.52 | 12.2 | 3.9 | 7.5 | 42 | 0.2 | 0.9 | 0.2 | 24 | 0.86 | 0.056 | 23 |
| 1238920 | Soil | 0.6 | 29.3 | 16.6 | 49 | 0.1 | 30.4 | 8.6 | 300 | 2.37 | 7.6 | 2.1 | 7.5 | 42 | 0.2 | 0.6 | 0.2 | 24 | 0.81 | 0.042 | 29 |
| 1238921 | Soil | 0.5 | 24.3 | 15.5 | 53 | 0.1 | 24.1 | 9.6 | 384 | 2.23 | 11.0 | 3.8 | 6.0 | 39 | 0.2 | 0.9 | 0.2 | 20 | 0.72 | 0.047 | 22 |
| 1238922 | Soil | 0.7 | 31.8 | 17.6 | 60 | 0.2 | 28.4 | 10.3 | 455 | 2.37 | 10.7 | 4.5 | 7.0 | 43 | 0.2 | 1.0 | 0.2 | 21 | 0.85 | 0.053 | 21 |
| 1238923 | Soil | 0.6 | 24.9 | 15.2 | 56 | 0.1 | 24.6 | 10.1 | 391 | 2.38 | 8.6 | 3.2 | 7.5 | 45 | 0.1 | 0.9 | 0.2 | 20 | 0.65 | 0.047 | 28 |
| 1238924 | Soil | 0.5 | 38.9 | 18.0 | 56 | 0.2 | 31.0 | 9.9 | 347 | 2.39 | 11.7 | 2.5 | 6.2 | 48 | 0.2 | 1.1 | 0.2 | 20 | 1.04 | 0.052 | 23 |
| 1238925 | Soil | 0.6 | 33.8 | 22.8 | 77 | 0.2 | 31.4 | 12.7 | 369 | 2.99 | 16.3 | 4.3 | 13.3 | 25 | 0.2 | 1.3 | 0.2 | 23 | 0.45 | 0.062 | 33 |
| 1238926 | Soil | 0.7 | 33.1 | 15.0 | 71 | <0.1 | 31.0 | 12.1 | 292 | 3.04 | 17.1 | 1.9 | 12.8 | 18 | 0.1 | 1.6 | 0.2 | 25 | 0.27 | 0.048 | 37 |
| 1238927 | Soil | 0.7 | 36.9 | 19.4 | 78 | 0.1 | 39.1 | 16.1 | 496 | 3.32 | 14.1 | 3.0 | 14.6 | 22 | 0.2 | 1.7 | 0.2 | 26 | 0.43 | 0.062 | 38 |
| 1238928 | Soil | 0.8 | 27.2 | 13.7 | 59 | <0.1 | 25.9 | 9.4 | 205 | 2.67 | 11.8 | 1.7 | 9.4 | 9 | 0.1 | 1.7 | 0.2 | 24 | 0.06 | 0.027 | 30 |
| 1238929 | Soil | 0.8 | 30.0 | 19.6 | 64 | <0.1 | 30.1 | 11.8 | 398 | 2.77 | 15.0 | 3.0 | 11.0 | 12 | 0.1 | 2.2 | 0.2 | 24 | 0.16 | 0.038 | 31 |
| 1238930 | Soil | 0.5 | 34.6 | 22.9 | 74 | 0.1 | 35.6 | 14.9 | 441 | 3.30 | 17.4 | 3.7 | 14.3 | 22 | 0.1 | 3.3 | 0.2 | 22 | 0.56 | 0.047 | 38 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238727 | Soil | | 20 | 0.38 | 162 | 0.007 | <1 | 1.11 | 0.005 | 0.04 | 0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238728 | Soil | | 19 | 0.42 | 130 | 0.010 | 2 | 0.98 | 0.005 | 0.04 | 0.2 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238729 | Soil | | 17 | 0.33 | 114 | 0.013 | 2 | 0.64 | 0.006 | 0.06 | 0.2 | 0.08 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238730 | Soil | | 22 | 0.44 | 287 | 0.024 | 2 | 1.08 | 0.009 | 0.06 | 0.3 | 0.04 | 3.0 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238905 | Soil | | 22 | 0.42 | 102 | 0.026 | 1 | 1.23 | 0.005 | 0.04 | 0.3 | 0.03 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238906 | Soil | | 20 | 0.34 | 102 | 0.020 | <1 | 1.10 | 0.004 | 0.04 | 0.3 | 0.01 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238907 | Soil | | 21 | 0.47 | 145 | 0.022 | <1 | 1.19 | 0.006 | 0.04 | 0.8 | 0.02 | 2.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238908 | Soil | | 21 | 0.33 | 103 | 0.022 | 1 | 1.10 | 0.007 | 0.04 | 0.3 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238909 | Soil | | 27 | 0.39 | 172 | 0.034 | 1 | 1.38 | 0.005 | 0.04 | 0.5 | 0.04 | 4.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238910 | Soil | | 17 | 0.21 | 114 | 0.010 | <1 | 0.82 | 0.005 | 0.04 | 0.4 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238911 | Soil | | 15 | 0.06 | 49 | <0.001 | <1 | 0.30 | 0.004 | 0.04 | <0.1 | 0.02 | 2.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238912 | Soil | | 16 | 0.24 | 139 | 0.005 | <1 | 0.73 | 0.006 | 0.04 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238913 | Soil | | 17 | 0.31 | 148 | 0.010 | 1 | 0.79 | 0.007 | 0.04 | 0.2 | 0.04 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238914 | Soil | | 23 | 0.35 | 243 | 0.011 | <1 | 1.00 | 0.007 | 0.05 | 0.5 | 0.04 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238915 | Soil | | 22 | 0.34 | 237 | 0.008 | <1 | 0.94 | 0.006 | 0.04 | 0.3 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238916 | Soil | | 35 | 0.46 | 172 | 0.008 | <1 | 1.01 | 0.006 | 0.05 | 0.3 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238917 | Soil | | 23 | 0.29 | 128 | 0.006 | <1 | 0.71 | 0.005 | 0.06 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1238918 | Soil | | 15 | 0.26 | 136 | 0.006 | <1 | 0.63 | 0.005 | 0.04 | 0.2 | 0.02 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238919 | Soil | | 18 | 0.35 | 135 | 0.010 | 1 | 0.88 | 0.007 | 0.05 | 0.1 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238920 | Soil | | 21 | 0.32 | 228 | 0.005 | <1 | 0.93 | 0.006 | 0.06 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238921 | Soil | | 14 | 0.27 | 131 | 0.009 | 1 | 0.66 | 0.007 | 0.04 | 0.1 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238922 | Soil | | 16 | 0.30 | 151 | 0.009 | <1 | 0.78 | 0.006 | 0.05 | 0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238923 | Soil | | 14 | 0.31 | 144 | 0.007 | 1 | 0.72 | 0.007 | 0.05 | 0.2 | 0.02 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238924 | Soil | | 17 | 0.31 | 158 | 0.007 | 1 | 0.77 | 0.006 | 0.05 | 0.2 | 0.04 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238925 | Soil | | 19 | 0.37 | 102 | 0.013 | 1 | 0.89 | 0.007 | 0.07 | 0.1 | 0.02 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238926 | Soil | | 21 | 0.38 | 91 | 0.013 | 1 | 0.99 | 0.007 | 0.09 | 0.1 | 0.02 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238927 | Soil | | 22 | 0.38 | 104 | 0.015 | 2 | 0.98 | 0.009 | 0.13 | 0.1 | 0.02 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238928 | Soil | | 18 | 0.29 | 122 | 0.012 | <1 | 0.83 | 0.004 | 0.05 | 0.2 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238929 | Soil | | 19 | 0.30 | 133 | 0.012 | <1 | 0.86 | 0.006 | 0.07 | 0.2 | 0.02 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238930 | Soil | | 19 | 0.33 | 94 | 0.008 | 1 | 0.94 | 0.006 | 0.13 | 0.1 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238931 | Soil | | 0.5 | 35.0 | 21.6 | 68 | 0.1 | 36.4 | 13.6 | 430 | 3.32 | 15.2 | 3.0 | 13.7 | 18 | 0.1 | 2.7 | 0.3 | 21 | 0.28 | 0.036 | 38 |
| 1238932 | Soil | | 0.7 | 31.2 | 29.0 | 72 | 0.2 | 29.7 | 11.8 | 499 | 2.93 | 22.2 | 3.2 | 11.8 | 22 | 0.3 | 1.7 | 0.2 | 18 | 0.41 | 0.037 | 30 |
| 1238933 | Soil | | 0.3 | 23.2 | 21.3 | 54 | <0.1 | 26.4 | 11.6 | 236 | 2.72 | 17.8 | 1.5 | 10.2 | 30 | <0.1 | 1.3 | 0.2 | 21 | 0.54 | 0.029 | 31 |
| 1238934 | Soil | | 0.5 | 21.7 | 18.3 | 50 | <0.1 | 24.6 | 9.9 | 262 | 2.72 | 17.1 | 1.9 | 8.5 | 24 | <0.1 | 1.6 | 0.2 | 26 | 0.41 | 0.017 | 24 |
| 1238935 | Soil | | 0.8 | 70.2 | 53.3 | 101 | 0.5 | 52.6 | 18.8 | 613 | 5.01 | 31.2 | 12.0 | 17.5 | 14 | <0.1 | 4.7 | 0.5 | 16 | 0.02 | 0.030 | 36 |
| 1238936 | Soil | | 0.4 | 32.3 | 24.8 | 72 | 0.2 | 33.8 | 13.4 | 226 | 3.27 | 22.3 | 3.2 | 18.4 | 38 | <0.1 | 0.9 | 0.4 | 6 | 0.61 | 0.043 | 32 |
| 1238937 | Soil | | 0.3 | 24.2 | 23.7 | 58 | <0.1 | 27.0 | 11.1 | 263 | 2.87 | 5.4 | 1.6 | 20.7 | 22 | <0.1 | 0.4 | 0.3 | 8 | 0.38 | 0.026 | 52 |
| 1238938 | Soil | | 0.4 | 25.7 | 24.8 | 39 | 0.2 | 28.2 | 12.5 | 172 | 2.84 | 4.9 | 3.1 | 19.7 | 106 | <0.1 | 0.6 | 0.3 | 3 | 4.10 | 0.020 | 27 |
| 1238939 | Soil | | <0.1 | 28.3 | 5.0 | 68 | <0.1 | 35.9 | 16.8 | 942 | 3.52 | <0.5 | 4.4 | 22.1 | 16 | <0.1 | 0.1 | 0.5 | 20 | 0.12 | 0.027 | 57 |
| 1238940 | Soil | | 0.9 | 25.6 | 24.4 | 65 | <0.1 | 20.4 | 9.7 | 272 | 3.25 | 11.8 | 6.6 | 6.8 | 10 | <0.1 | 0.6 | 0.4 | 32 | 0.11 | 0.062 | 20 |
| 1238941 | Soil | | 1.3 | 34.6 | 16.5 | 61 | 0.2 | 21.7 | 8.8 | 301 | 2.60 | 11.1 | 6.8 | 5.1 | 15 | <0.1 | 0.8 | 0.3 | 31 | 0.12 | 0.053 | 27 |
| 1238942 | Soil | | 1.3 | 47.8 | 30.8 | 71 | <0.1 | 19.1 | 7.8 | 194 | 3.86 | 7.3 | 2.7 | 22.8 | 8 | 0.1 | 0.6 | 0.5 | 13 | 0.04 | 0.039 | 61 |
| 1238943 | Soil | | 0.8 | 23.3 | 13.8 | 54 | <0.1 | 19.7 | 8.0 | 204 | 2.32 | 9.9 | 2.4 | 2.9 | 8 | <0.1 | 0.6 | 0.1 | 32 | 0.09 | 0.047 | 21 |
| 1238944 | Soil | | 0.8 | 27.4 | 10.3 | 56 | <0.1 | 17.9 | 7.6 | 263 | 2.07 | 10.3 | 3.9 | 3.7 | 12 | <0.1 | 0.6 | 0.2 | 33 | 0.14 | 0.055 | 18 |
| 1238945 | Soil | | 0.9 | 16.4 | 14.1 | 42 | <0.1 | 13.2 | 7.4 | 175 | 2.22 | 9.9 | 3.5 | 0.8 | 6 | <0.1 | 0.4 | 0.2 | 37 | 0.07 | 0.049 | 17 |
| 1238946 | Soil | | 0.8 | 31.9 | 23.2 | 63 | <0.1 | 23.3 | 21.2 | 553 | 3.12 | 7.0 | 1.8 | 9.4 | 5 | 0.1 | 0.6 | 0.2 | 18 | 0.04 | 0.035 | 31 |
| 1238947 | Soil | | 1.1 | 21.7 | 14.4 | 46 | <0.1 | 18.5 | 7.7 | 203 | 2.53 | 10.7 | 1.8 | 7.3 | 6 | 0.1 | 0.6 | 0.2 | 33 | 0.05 | 0.029 | 18 |
| 1238948 | Soil | | 0.8 | 36.0 | 15.6 | 59 | <0.1 | 29.1 | 14.1 | 304 | 2.58 | 9.1 | 2.8 | 7.0 | 9 | <0.1 | 1.2 | 0.2 | 30 | 0.07 | 0.028 | 26 |
| 1238949 | Soil | | 0.8 | 27.4 | 18.1 | 60 | <0.1 | 29.3 | 17.0 | 473 | 2.60 | 9.1 | 2.9 | 11.1 | 5 | 0.1 | 0.7 | 0.2 | 20 | 0.03 | 0.024 | 35 |
| 1238950 | Soil | | 1.0 | 37.6 | 22.2 | 64 | <0.1 | 29.8 | 13.0 | 374 | 3.03 | 5.5 | 2.6 | 15.6 | 9 | <0.1 | 0.9 | 0.3 | 17 | 0.04 | 0.024 | 47 |
| 1238951 | Soil | | 1.1 | 23.5 | 14.6 | 46 | <0.1 | 16.0 | 7.5 | 223 | 2.45 | 10.3 | 3.1 | 6.5 | 8 | <0.1 | 0.6 | 0.2 | 40 | 0.07 | 0.025 | 20 |
| 1238952 | Soil | | 0.9 | 30.0 | 15.3 | 60 | <0.1 | 20.8 | 9.8 | 333 | 2.85 | 12.7 | 4.5 | 8.1 | 8 | 0.1 | 0.7 | 0.2 | 45 | 0.07 | 0.022 | 15 |
| 1238953 | Soil | | 2.6 | 59.1 | 24.8 | 67 | <0.1 | 14.5 | 4.9 | 155 | 4.12 | 6.5 | 3.6 | 20.6 | 10 | <0.1 | 0.7 | 0.5 | 17 | 0.03 | 0.038 | 57 |
| 1238954 | Soil | | 0.9 | 48.2 | 28.1 | 81 | <0.1 | 21.0 | 6.7 | 155 | 3.79 | 5.0 | 2.8 | 19.2 | 11 | <0.1 | 0.3 | 0.4 | 13 | 0.01 | 0.035 | 45 |
| 1238955 | Soil | | 1.2 | 31.2 | 18.3 | 55 | <0.1 | 23.0 | 10.6 | 252 | 2.75 | 11.9 | 2.4 | 8.3 | 9 | 0.1 | 0.6 | 0.2 | 47 | 0.05 | 0.019 | 19 |
| 1238956 | Soil | | 1.1 | 18.6 | 14.2 | 45 | 0.1 | 20.4 | 8.5 | 210 | 2.76 | 12.6 | 2.7 | 5.3 | 7 | <0.1 | 0.7 | 0.2 | 44 | 0.06 | 0.029 | 13 |
| 1238957 | Soil | | 2.5 | 56.2 | 31.5 | 65 | <0.1 | 21.2 | 6.9 | 127 | 4.59 | 4.3 | 1.8 | 17.8 | 6 | <0.1 | 0.4 | 0.5 | 16 | 0.02 | 0.042 | 45 |
| 1238958 | Soil | | 2.3 | 50.9 | 38.4 | 62 | <0.1 | 14.1 | 4.9 | 126 | 4.53 | 10.6 | 2.0 | 18.4 | 7 | <0.1 | 0.6 | 0.7 | 20 | 0.01 | 0.039 | 32 |
| 1238959 | Soil | | 1.1 | 31.8 | 27.8 | 69 | <0.1 | 8.6 | 4.8 | 223 | 4.21 | 8.2 | 0.7 | 21.4 | 15 | <0.1 | 0.2 | 0.4 | 19 | 0.02 | 0.062 | 38 |
| 1238960 | Soil | | 1.5 | 24.4 | 16.6 | 58 | <0.1 | 18.0 | 7.8 | 160 | 3.45 | 8.7 | 1.0 | 10.0 | 7 | <0.1 | 0.4 | 0.2 | 37 | 0.03 | 0.025 | 27 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238931 | Soil | | 20 | 0.30 | 107 | 0.005 | 1 | 1.07 | 0.007 | 0.11 | 0.1 | 0.02 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238932 | Soil | | 16 | 0.30 | 99 | 0.005 | <1 | 0.91 | 0.006 | 0.08 | 0.1 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238933 | Soil | | 15 | 0.29 | 70 | 0.004 | <1 | 1.01 | 0.005 | 0.06 | 0.2 | 0.01 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238934 | Soil | | 18 | 0.26 | 127 | 0.006 | <1 | 1.06 | 0.004 | 0.05 | 0.2 | <0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238935 | Soil | | 26 | 0.74 | 46 | 0.002 | 1 | 1.90 | 0.004 | 0.03 | <0.1 | <0.01 | 1.7 | <0.1 | <0.05 | 6 | <0.5 | <1 | <0.2 |
| 1238936 | Soil | | 5 | 0.06 | 38 | <0.001 | <1 | 0.17 | 0.003 | 0.05 | <0.1 | 0.01 | 1.2 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1238937 | Soil | | 8 | 0.13 | 99 | 0.003 | <1 | 0.58 | 0.003 | 0.05 | <0.1 | <0.01 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238938 | Soil | | 8 | 0.31 | 48 | <0.001 | <1 | 0.66 | 0.005 | 0.10 | <0.1 | 0.02 | 2.6 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |
| 1238939 | Soil | | 16 | 0.28 | 26 | 0.029 | <1 | 0.50 | 0.003 | 0.04 | <0.1 | <0.01 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238940 | Soil | | 25 | 0.45 | 78 | 0.017 | <1 | 1.39 | 0.004 | 0.03 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238941 | Soil | | 21 | 0.40 | 325 | 0.018 | <1 | 1.07 | 0.005 | 0.04 | 0.2 | 0.05 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238942 | Soil | | 17 | 0.39 | 149 | 0.003 | <1 | 0.85 | 0.003 | 0.02 | <0.1 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238943 | Soil | | 22 | 0.34 | 123 | 0.017 | <1 | 1.16 | 0.004 | 0.03 | 0.2 | 0.06 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238944 | Soil | | 20 | 0.34 | 263 | 0.022 | <1 | 0.92 | 0.005 | 0.02 | 0.2 | 0.03 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238945 | Soil | | 21 | 0.25 | 100 | 0.014 | <1 | 1.10 | 0.004 | 0.03 | 0.2 | 0.04 | 1.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238946 | Soil | | 17 | 0.32 | 50 | 0.009 | <1 | 0.96 | 0.003 | 0.02 | <0.1 | <0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238947 | Soil | | 23 | 0.33 | 129 | 0.020 | <1 | 1.24 | 0.004 | 0.03 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238948 | Soil | | 20 | 0.35 | 161 | 0.020 | <1 | 1.06 | 0.004 | 0.03 | 0.1 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238949 | Soil | | 15 | 0.33 | 107 | 0.012 | <1 | 0.93 | 0.004 | 0.02 | 0.1 | 0.03 | 2.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238950 | Soil | | 15 | 0.31 | 144 | 0.009 | <1 | 0.82 | 0.003 | 0.03 | <0.1 | 0.04 | 2.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238951 | Soil | | 24 | 0.34 | 168 | 0.025 | <1 | 1.31 | 0.005 | 0.03 | 0.2 | 0.04 | 2.9 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238952 | Soil | | 32 | 0.44 | 179 | 0.035 | 2 | 1.65 | 0.007 | 0.04 | 0.2 | 0.05 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238953 | Soil | | 20 | 0.48 | 69 | 0.004 | <1 | 1.13 | 0.004 | 0.03 | <0.1 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1238954 | Soil | | 21 | 0.66 | 48 | 0.003 | <1 | 1.51 | 0.004 | 0.04 | <0.1 | <0.01 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238955 | Soil | | 30 | 0.43 | 141 | 0.041 | 1 | 1.67 | 0.006 | 0.04 | 0.1 | 0.06 | 5.2 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238956 | Soil | | 28 | 0.31 | 134 | 0.022 | <1 | 1.66 | 0.004 | 0.03 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238957 | Soil | | 18 | 0.36 | 59 | 0.002 | <1 | 1.10 | 0.003 | 0.04 | <0.1 | 0.01 | 1.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238958 | Soil | | 26 | 0.61 | 81 | 0.003 | <1 | 1.64 | 0.004 | 0.03 | <0.1 | 0.02 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238959 | Soil | | 28 | 0.79 | 78 | 0.003 | <1 | 1.61 | 0.008 | 0.05 | <0.1 | <0.01 | 1.4 | <0.1 | 0.08 | 5 | <0.5 | <1 | <0.2 |
| 1238960 | Soil | | 25 | 0.49 | 89 | 0.014 | <1 | 1.55 | 0.003 | 0.03 | <0.1 | 0.01 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238961 | Soil | 0.8 | 30.6 | 19.6 | 55 | <0.1 | 9.1 | 4.8 | 149 | 3.20 | 6.0 | 9.4 | 16.3 | 9 | <0.1 | 0.3 | 0.3 | 17 | 0.02 | 0.026 | 35 |
| 1238962 | Soil | 1.0 | 23.9 | 15.4 | 51 | <0.1 | 24.5 | 11.4 | 252 | 2.57 | 10.6 | 0.9 | 3.9 | 8 | <0.1 | 7.9 | 0.2 | 32 | 0.08 | 0.042 | 19 |
| 1238963 | Soil | 1.1 | 11.6 | 11.6 | 38 | 0.2 | 14.2 | 6.1 | 230 | 2.35 | 20.9 | 2.8 | 3.2 | 8 | <0.1 | 29.9 | 0.2 | 49 | 0.08 | 0.029 | 16 |
| 1238964 | Soil | 0.7 | 30.1 | 11.8 | 40 | 0.2 | 16.8 | 7.8 | 644 | 2.01 | 14.9 | 0.7 | 3.7 | 7 | <0.1 | 19.3 | 0.2 | 23 | 0.07 | 0.039 | 26 |
| 1238965 | Soil | 0.6 | 11.8 | 7.3 | 18 | 0.1 | 8.0 | 3.8 | 208 | 0.90 | 3.8 | 0.8 | 2.6 | 7 | <0.1 | 5.2 | 0.1 | 19 | 0.08 | 0.023 | 24 |
| 1238966 | Soil | 0.7 | 23.1 | 16.3 | 47 | <0.1 | 21.5 | 8.4 | 242 | 2.34 | 11.6 | 8.1 | 7.0 | 7 | <0.1 | 8.2 | 0.1 | 26 | 0.07 | 0.015 | 20 |
| 1238967 | Soil | 0.9 | 42.5 | 17.5 | 68 | <0.1 | 34.1 | 13.3 | 502 | 2.99 | 10.4 | 4.7 | 10.8 | 18 | 0.1 | 5.1 | 0.3 | 28 | 0.19 | 0.023 | 26 |
| 1238968 | Soil | 1.0 | 19.0 | 15.2 | 38 | <0.1 | 22.2 | 8.1 | 230 | 2.28 | 7.6 | 1.8 | 6.2 | 23 | <0.1 | 2.4 | 0.2 | 26 | 0.35 | 0.025 | 21 |
| 1238969 | Soil | 1.0 | 25.8 | 14.0 | 58 | <0.1 | 26.1 | 10.0 | 361 | 2.57 | 8.6 | 0.5 | 6.3 | 22 | 0.1 | 2.5 | 0.2 | 33 | 0.31 | 0.024 | 19 |
| 1238970 | Soil | 1.2 | 40.2 | 17.5 | 83 | 0.1 | 33.8 | 11.8 | 473 | 2.81 | 10.8 | 3.4 | 7.5 | 26 | 0.3 | 4.1 | 0.2 | 33 | 0.40 | 0.055 | 21 |
| 1238971 | Soil | 0.9 | 31.4 | 16.3 | 63 | 0.1 | 28.2 | 10.8 | 399 | 2.61 | 17.1 | 3.8 | 7.5 | 27 | 0.1 | 2.3 | 0.2 | 26 | 0.41 | 0.050 | 22 |
| 1238972 | Soil | 0.9 | 29.9 | 16.4 | 74 | 0.1 | 26.4 | 10.4 | 402 | 2.33 | 16.6 | 3.9 | 7.9 | 29 | 0.3 | 2.7 | 0.2 | 26 | 0.47 | 0.063 | 25 |
| 1238973 | Soil | 1.4 | 39.7 | 22.5 | 83 | 0.3 | 35.2 | 13.6 | 526 | 2.82 | 25.4 | 8.3 | 8.3 | 32 | 0.3 | 3.3 | 0.3 | 34 | 0.43 | 0.066 | 25 |
| 1238974 | Soil | 0.4 | 14.8 | 9.7 | 54 | 0.1 | 17.9 | 7.7 | 220 | 1.57 | 6.4 | 2.8 | 3.8 | 103 | 0.1 | 1.6 | 0.2 | 17 | 0.56 | 0.056 | 14 |
| 1238975 | Soil | 0.9 | 28.6 | 22.2 | 70 | 0.1 | 25.4 | 11.1 | 350 | 2.53 | 57.9 | 9.1 | 7.4 | 24 | 0.2 | 6.0 | 0.4 | 21 | 0.36 | 0.059 | 21 |
| 1238976 | Soil | 1.2 | 35.7 | 26.8 | 91 | 0.2 | 33.5 | 14.4 | 619 | 3.11 | 54.6 | 9.2 | 9.0 | 43 | 0.3 | 7.4 | 0.5 | 27 | 0.36 | 0.064 | 24 |
| 1238977 | Soil | 0.8 | 21.0 | 16.0 | 50 | <0.1 | 27.3 | 9.7 | 236 | 2.60 | 13.5 | 1.4 | 6.3 | 24 | <0.1 | 0.8 | 0.2 | 24 | 0.21 | 0.027 | 26 |
| 1238978 | Soil | 1.3 | 27.3 | 17.9 | 48 | <0.1 | 32.9 | 10.8 | 242 | 2.82 | 8.0 | 2.9 | 2.5 | 13 | <0.1 | 0.5 | 0.2 | 41 | 0.11 | 0.048 | 32 |
| 1238979 | Soil | 0.9 | 15.2 | 12.9 | 46 | <0.1 | 16.9 | 6.1 | 168 | 2.26 | 8.5 | 14.3 | 0.8 | 8 | <0.1 | 0.5 | 0.2 | 39 | 0.08 | 0.049 | 20 |
| 1238980 | Soil | 1.1 | 28.5 | 15.5 | 54 | 0.2 | 46.7 | 12.3 | 301 | 3.10 | 8.1 | 8.9 | 0.8 | 32 | <0.1 | 0.5 | 0.2 | 69 | 0.30 | 0.077 | 24 |
| 1238981 | Soil | 0.9 | 27.5 | 13.7 | 61 | 0.1 | 41.9 | 15.9 | 407 | 2.79 | 5.8 | 4.8 | 3.8 | 19 | <0.1 | 0.4 | 0.2 | 53 | 0.20 | 0.075 | 31 |
| 1238982 | Soil | 0.8 | 23.9 | 14.9 | 63 | 0.1 | 88.3 | 19.5 | 406 | 3.16 | 7.8 | 4.2 | 4.8 | 48 | <0.1 | 0.4 | 0.2 | 69 | 0.48 | 0.080 | 26 |
| 1238983 | Soil | 0.9 | 66.5 | 24.8 | 72 | <0.1 | 62.2 | 25.4 | 1002 | 4.38 | 9.9 | 2.4 | 7.2 | 15 | 0.2 | 0.6 | 0.3 | 73 | 0.20 | 0.067 | 26 |
| 1238984 | Soil | 0.3 | 3.9 | 10.3 | 7 | <0.1 | 2.7 | 0.8 | 18 | 0.43 | 2.3 | 1.9 | <0.1 | 5 | <0.1 | 0.2 | 0.2 | 17 | 0.02 | 0.034 | 14 |
| 1238985 | Soil | 1.2 | 25.6 | 13.4 | 62 | <0.1 | 26.2 | 10.3 | 297 | 2.75 | 11.0 | 4.0 | 4.7 | 11 | <0.1 | 0.9 | 0.2 | 38 | 0.08 | 0.020 | 19 |
| 1238986 | Soil | 0.8 | 25.6 | 16.8 | 55 | <0.1 | 25.1 | 10.8 | 411 | 2.75 | 9.6 | 29.3 | 6.0 | 12 | <0.1 | 0.7 | 0.2 | 32 | 0.10 | 0.038 | 30 |
| 1238987 | Soil | 1.0 | 33.7 | 20.7 | 58 | <0.1 | 27.1 | 14.4 | 515 | 3.17 | 7.6 | 6.7 | 6.7 | 10 | <0.1 | 0.7 | 0.3 | 29 | 0.08 | 0.045 | 32 |
| 1238988 | Soil | 0.9 | 25.1 | 8.2 | 62 | <0.1 | 20.4 | 7.0 | 273 | 2.00 | 9.0 | 5.5 | 4.3 | 17 | 0.2 | 0.7 | 0.1 | 31 | 0.22 | 0.067 | 18 |
| 1238989 | Soil | 0.8 | 24.6 | 13.4 | 55 | <0.1 | 47.3 | 12.3 | 296 | 2.70 | 17.4 | 4.2 | 5.9 | 8 | 0.1 | 1.0 | 0.2 | 41 | 0.07 | 0.028 | 15 |
| 1238990 | Soil | 0.9 | 21.9 | 11.3 | 55 | 0.1 | 22.2 | 9.3 | 272 | 2.31 | 10.8 | 1.8 | 4.5 | 14 | <0.1 | 0.7 | 0.1 | 36 | 0.16 | 0.043 | 22 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238961 | Soil | | 23 | 0.57 | 58 | 0.006 | <1 | 1.44 | 0.002 | 0.02 | <0.1 | 0.03 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238962 | Soil | | 22 | 0.28 | 131 | 0.009 | 1 | 1.34 | 0.005 | 0.07 | 0.1 | 0.03 | 1.9 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238963 | Soil | | 21 | 0.22 | 123 | 0.017 | <1 | 1.19 | 0.004 | 0.05 | 0.2 | 0.02 | 1.6 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238964 | Soil | | 8 | 0.09 | 101 | 0.007 | <1 | 0.53 | 0.003 | 0.08 | <0.1 | 0.01 | 0.9 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238965 | Soil | | 7 | 0.06 | 91 | 0.004 | <1 | 0.69 | 0.003 | 0.06 | 0.1 | <0.01 | 0.8 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238966 | Soil | | 18 | 0.25 | 118 | 0.010 | <1 | 0.95 | 0.004 | 0.07 | 0.1 | 0.02 | 1.6 | 0.1 | 0.08 | 3 | <0.5 | <1 | <0.2 |
| 1238967 | Soil | | 22 | 0.44 | 162 | 0.015 | <1 | 1.11 | 0.006 | 0.05 | 0.2 | 0.06 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238968 | Soil | | 16 | 0.25 | 163 | 0.009 | <1 | 0.87 | 0.004 | 0.06 | 0.1 | 0.01 | 1.5 | <0.1 | 0.06 | 2 | <0.5 | 2 | <0.2 |
| 1238969 | Soil | | 22 | 0.36 | 250 | 0.014 | <1 | 1.20 | 0.006 | 0.06 | 0.1 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238970 | Soil | | 21 | 0.37 | 217 | 0.024 | 1 | 0.94 | 0.009 | 0.06 | 0.2 | 0.07 | 3.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238971 | Soil | | 19 | 0.34 | 199 | 0.015 | <1 | 0.90 | 0.007 | 0.06 | 0.3 | 0.04 | 2.8 | <0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1238972 | Soil | | 19 | 0.36 | 155 | 0.014 | 1 | 0.84 | 0.007 | 0.07 | 0.3 | 0.04 | 2.5 | <0.1 | 0.09 | 2 | <0.5 | <1 | <0.2 |
| 1238973 | Soil | | 25 | 0.44 | 198 | 0.021 | 1 | 1.09 | 0.009 | 0.08 | 0.3 | 0.07 | 3.3 | 0.1 | 0.09 | 3 | <0.5 | <1 | <0.2 |
| 1238974 | Soil | | 13 | 0.33 | 124 | 0.010 | 2 | 0.69 | 0.006 | 0.04 | 0.2 | 0.04 | 1.5 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |
| 1238975 | Soil | | 16 | 0.33 | 145 | 0.016 | <1 | 0.72 | 0.008 | 0.07 | 1.2 | 0.06 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238976 | Soil | | 21 | 0.46 | 175 | 0.020 | <1 | 0.93 | 0.009 | 0.09 | 0.8 | 0.06 | 2.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238977 | Soil | | 21 | 0.41 | 110 | 0.005 | <1 | 1.11 | 0.004 | 0.04 | 0.2 | 0.02 | 1.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238978 | Soil | | 62 | 0.46 | 94 | 0.009 | <1 | 1.16 | 0.005 | 0.05 | 0.1 | 0.05 | 2.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238979 | Soil | | 36 | 0.37 | 126 | 0.012 | <1 | 1.25 | 0.005 | 0.04 | 0.2 | 0.05 | 1.8 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238980 | Soil | | 96 | 0.68 | 179 | 0.008 | <1 | 1.24 | 0.005 | 0.05 | 0.2 | 0.06 | 2.8 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1238981 | Soil | | 82 | 0.60 | 224 | 0.009 | <1 | 1.21 | 0.005 | 0.05 | 0.2 | 0.10 | 4.6 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238982 | Soil | | 236 | 1.31 | 168 | 0.008 | <1 | 1.54 | 0.005 | 0.05 | 0.1 | 0.06 | 6.1 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238983 | Soil | | 75 | 0.99 | 184 | 0.027 | <1 | 1.69 | 0.005 | 0.19 | 0.1 | 0.01 | 7.1 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1238984 | Soil | | 10 | 0.05 | 66 | 0.007 | <1 | 0.65 | 0.003 | 0.02 | <0.1 | 0.02 | 0.3 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238985 | Soil | | 28 | 0.39 | 217 | 0.026 | <1 | 1.30 | 0.005 | 0.06 | 0.2 | 0.06 | 3.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238986 | Soil | | 23 | 0.35 | 206 | 0.017 | <1 | 1.19 | 0.006 | 0.07 | 0.2 | 0.04 | 2.8 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238987 | Soil | | 23 | 0.29 | 78 | 0.014 | <1 | 0.86 | 0.005 | 0.10 | 0.1 | 0.03 | 1.9 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238988 | Soil | | 20 | 0.34 | 243 | 0.026 | <1 | 0.77 | 0.007 | 0.04 | 0.3 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238989 | Soil | | 107 | 0.56 | 136 | 0.025 | <1 | 1.56 | 0.005 | 0.05 | 0.2 | 0.02 | 3.3 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238990 | Soil | | 21 | 0.38 | 276 | 0.023 | <1 | 1.19 | 0.007 | 0.04 | 0.2 | 0.02 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238991 | Soil | 0.8 | 11.7 | 12.2 | 42 | <0.1 | 14.5 | 5.5 | 166 | 2.51 | 11.8 | 2.3 | 2.7 | 7 | <0.1 | 0.9 | 0.2 | 37 | 0.07 | 0.034 | 10 |
| 1238992 | Soil | 0.9 | 25.8 | 12.8 | 64 | <0.1 | 27.9 | 10.9 | 407 | 2.50 | 16.3 | 8.4 | 4.1 | 11 | 0.2 | 2.7 | 0.2 | 36 | 0.12 | 0.049 | 18 |
| 1238993 | Soil | 0.7 | 21.6 | 7.6 | 50 | <0.1 | 18.4 | 7.2 | 219 | 1.88 | 13.4 | 2.5 | 3.4 | 14 | <0.1 | 1.2 | 0.1 | 26 | 0.19 | 0.063 | 12 |
| 1238994 | Soil | 0.7 | 23.9 | 8.7 | 48 | 0.1 | 19.7 | 7.3 | 236 | 1.96 | 12.4 | 3.5 | 2.7 | 14 | <0.1 | 1.1 | 0.1 | 29 | 0.18 | 0.057 | 14 |
| 1238995 | Soil | 0.6 | 24.3 | 12.4 | 58 | <0.1 | 25.8 | 9.7 | 297 | 2.39 | 12.4 | 2.3 | 6.2 | 10 | 0.2 | 1.2 | 0.2 | 26 | 0.12 | 0.046 | 25 |
| 1238996 | Soil | 0.7 | 27.6 | 14.6 | 61 | <0.1 | 27.0 | 11.1 | 300 | 2.67 | 12.4 | 2.1 | 6.5 | 11 | <0.1 | 1.8 | 0.2 | 19 | 0.12 | 0.043 | 32 |
| 1238997 | Soil | 0.8 | 7.2 | 6.5 | 40 | <0.1 | 10.8 | 4.0 | 89 | 1.50 | 8.7 | 15.1 | 3.0 | 17 | <0.1 | 0.8 | 0.1 | 26 | 0.23 | 0.061 | 12 |
| 1238998 | Soil | 1.0 | 20.0 | 7.6 | 73 | 0.1 | 22.8 | 7.9 | 274 | 1.99 | 7.2 | 1.7 | 3.3 | 31 | 0.3 | 1.0 | 0.1 | 40 | 0.58 | 0.079 | 11 |
| 1238999 | Soil | 0.5 | 11.0 | 6.3 | 47 | <0.1 | 13.8 | 5.8 | 310 | 1.54 | 9.2 | 1.2 | 3.0 | 21 | 0.1 | 0.7 | <0.1 | 26 | 0.26 | 0.070 | 10 |
| 1239000 | Soil | 0.2 | 13.1 | 6.8 | 54 | <0.1 | 13.5 | 4.4 | 117 | 1.35 | 3.0 | 1.1 | 3.0 | 26 | 0.2 | 0.9 | <0.1 | 33 | 0.34 | 0.068 | 11 |
| 1239144 | Soil | 0.9 | 22.8 | 13.2 | 54 | <0.1 | 19.4 | 7.0 | 171 | 2.60 | 10.9 | 2.9 | 6.0 | 6 | <0.1 | 1.0 | 0.2 | 30 | 0.04 | 0.022 | 20 |
| 1239145 | Soil | 0.8 | 26.0 | 15.9 | 54 | <0.1 | 17.3 | 6.7 | 135 | 3.21 | 5.3 | 1.2 | 12.6 | 5 | <0.1 | 0.5 | 0.2 | 16 | 0.02 | 0.024 | 41 |
| 1239146 | Soil | 0.9 | 17.9 | 12.4 | 52 | <0.1 | 19.6 | 9.3 | 270 | 2.44 | 15.5 | 1.9 | 4.8 | 6 | 0.1 | 1.8 | 0.2 | 34 | 0.06 | 0.029 | 14 |
| 1239147 | Soil | 0.9 | 17.5 | 11.6 | 54 | 0.1 | 18.9 | 7.7 | 207 | 2.43 | 12.2 | 12.9 | 4.8 | 6 | <0.1 | 0.9 | 0.2 | 38 | 0.05 | 0.018 | 14 |
| 1239148 | Soil | 0.9 | 19.1 | 10.4 | 65 | <0.1 | 22.4 | 8.1 | 415 | 2.23 | 18.5 | 2.6 | 3.5 | 13 | 0.2 | 1.0 | 0.2 | 31 | 0.18 | 0.090 | 13 |
| 1239149 | Soil | 0.7 | 23.3 | 14.2 | 55 | <0.1 | 20.9 | 7.9 | 186 | 2.77 | 14.7 | 2.7 | 8.7 | 7 | <0.1 | 2.0 | 0.2 | 24 | 0.03 | 0.024 | 33 |
| 1239150 | Soil | 0.9 | 22.8 | 13.4 | 52 | <0.1 | 19.0 | 7.6 | 167 | 2.69 | 11.4 | 1.5 | 11.4 | 8 | <0.1 | 1.5 | 0.2 | 18 | 0.02 | 0.022 | 40 |
| 1239151 | Soil | 0.8 | 22.4 | 14.1 | 53 | <0.1 | 17.4 | 6.6 | 149 | 2.57 | 11.0 | 12.3 | 10.2 | 6 | <0.1 | 1.3 | 0.2 | 20 | 0.02 | 0.022 | 35 |
| 1239152 | Soil | 0.9 | 23.3 | 15.5 | 54 | <0.1 | 17.8 | 7.5 | 221 | 2.72 | 10.2 | 3.0 | 8.8 | 7 | <0.1 | 0.9 | 0.2 | 22 | 0.03 | 0.031 | 34 |
| 1239153 | Soil | 0.6 | 22.1 | 13.0 | 46 | <0.1 | 17.1 | 6.1 | 184 | 2.16 | 8.1 | 2.2 | 9.1 | 10 | <0.1 | 1.1 | 0.2 | 22 | 0.09 | 0.024 | 30 |
| 1239154 | Soil | 0.7 | 24.5 | 14.2 | 50 | <0.1 | 17.1 | 6.1 | 143 | 2.43 | 7.8 | 2.5 | 10.9 | 6 | <0.1 | 0.8 | 0.2 | 22 | 0.03 | 0.019 | 35 |
| 1239155 | Soil | 0.8 | 21.5 | 13.8 | 49 | <0.1 | 17.7 | 6.2 | 160 | 2.49 | 10.7 | 39.5 | 8.1 | 7 | <0.1 | 2.2 | 0.2 | 27 | 0.05 | 0.028 | 32 |
| 1239156 | Soil | 0.8 | 36.0 | 14.0 | 59 | <0.1 | 32.2 | 9.1 | 225 | 2.44 | 12.7 | 52.8 | 9.1 | 9 | 0.1 | 1.8 | 0.2 | 36 | 0.07 | 0.018 | 19 |
| 1239157 | Soil | 0.7 | 24.0 | 14.7 | 56 | <0.1 | 23.5 | 9.0 | 218 | 2.66 | 10.7 | 4.0 | 7.4 | 7 | <0.1 | 1.1 | 0.2 | 28 | 0.05 | 0.028 | 32 |
| 1239158 | Soil | 0.7 | 34.1 | 16.2 | 68 | <0.1 | 34.0 | 12.2 | 365 | 3.01 | 16.9 | 6.8 | 12.1 | 10 | 0.1 | 2.5 | 0.2 | 26 | 0.08 | 0.036 | 40 |
| 1239159 | Soil | 0.8 | 31.8 | 21.3 | 73 | 0.1 | 31.3 | 12.9 | 444 | 2.81 | 14.5 | 3.2 | 13.4 | 21 | 0.2 | 2.1 | 0.2 | 19 | 0.33 | 0.054 | 38 |
| 1239160 | Soil | 0.8 | 25.5 | 13.6 | 56 | 0.1 | 25.3 | 10.7 | 296 | 2.48 | 10.8 | 87.7 | 8.4 | 14 | 0.1 | 1.2 | 0.2 | 25 | 0.17 | 0.046 | 34 |
| 1239161 | Soil | 0.7 | 22.4 | 13.9 | 57 | <0.1 | 24.2 | 8.3 | 204 | 2.50 | 12.8 | 1.0 | 8.7 | 8 | <0.1 | 1.4 | 0.2 | 26 | 0.08 | 0.043 | 32 |
| 1239162 | Soil | 0.8 | 22.5 | 12.5 | 55 | <0.1 | 23.6 | 8.2 | 224 | 2.39 | 10.8 | 4.0 | 8.6 | 12 | <0.1 | 1.1 | 0.1 | 27 | 0.13 | 0.042 | 29 |
| 1239163 | Soil | 0.8 | 24.1 | 12.6 | 52 | <0.1 | 21.5 | 7.4 | 218 | 2.25 | 10.5 | 6.1 | 5.7 | 13 | 0.1 | 0.9 | 0.2 | 27 | 0.14 | 0.047 | 27 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238991 | Soil | | 18 | 0.25 | 68 | 0.023 | <1 | 0.88 | 0.004 | 0.03 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238992 | Soil | | 28 | 0.37 | 200 | 0.024 | <1 | 1.21 | 0.006 | 0.05 | 0.3 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238993 | Soil | | 17 | 0.28 | 212 | 0.020 | <1 | 0.71 | 0.005 | 0.03 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238994 | Soil | | 19 | 0.30 | 293 | 0.017 | <1 | 0.87 | 0.005 | 0.03 | 0.2 | 0.04 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238995 | Soil | | 21 | 0.31 | 147 | 0.017 | <1 | 0.89 | 0.003 | 0.03 | 0.3 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238996 | Soil | | 20 | 0.31 | 108 | 0.010 | <1 | 0.79 | 0.003 | 0.03 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238997 | Soil | | 15 | 0.27 | 97 | 0.018 | <1 | 0.59 | 0.005 | 0.03 | 0.9 | 0.09 | 1.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238998 | Soil | | 21 | 0.50 | 251 | 0.032 | <1 | 0.90 | 0.015 | 0.06 | 0.2 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238999 | Soil | | 13 | 0.28 | 139 | 0.023 | <1 | 0.55 | 0.008 | 0.03 | 0.2 | 0.02 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239000 | Soil | | 17 | 0.37 | 193 | 0.028 | <1 | 0.71 | 0.010 | 0.04 | 0.2 | 0.02 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239144 | Soil | | 20 | 0.39 | 100 | 0.018 | <1 | 1.09 | 0.004 | 0.03 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239145 | Soil | | 17 | 0.41 | 55 | 0.004 | <1 | 1.08 | 0.007 | 0.03 | <0.1 | 0.02 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239146 | Soil | | 20 | 0.31 | 143 | 0.023 | <1 | 1.13 | 0.005 | 0.03 | 0.3 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239147 | Soil | | 23 | 0.35 | 150 | 0.028 | <1 | 1.30 | 0.004 | 0.03 | 0.2 | 0.04 | 3.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239148 | Soil | | 17 | 0.32 | 69 | 0.029 | <1 | 0.68 | 0.003 | 0.03 | 0.7 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239149 | Soil | | 15 | 0.23 | 92 | 0.007 | <1 | 0.88 | 0.003 | 0.03 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239150 | Soil | | 13 | 0.24 | 82 | 0.005 | <1 | 0.81 | 0.005 | 0.03 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239151 | Soil | | 14 | 0.29 | 87 | 0.008 | <1 | 0.89 | 0.003 | 0.03 | 0.2 | <0.01 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239152 | Soil | | 16 | 0.35 | 115 | 0.011 | <1 | 0.96 | 0.004 | 0.03 | 0.2 | 0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239153 | Soil | | 16 | 0.38 | 186 | 0.014 | <1 | 0.85 | 0.008 | 0.03 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239154 | Soil | | 16 | 0.39 | 83 | 0.013 | <1 | 0.97 | 0.003 | 0.03 | 0.2 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239155 | Soil | | 15 | 0.29 | 96 | 0.014 | <1 | 0.87 | 0.003 | 0.03 | 0.3 | 0.02 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239156 | Soil | | 23 | 0.39 | 186 | 0.026 | 1 | 1.28 | 0.007 | 0.04 | 0.3 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239157 | Soil | | 19 | 0.28 | 93 | 0.013 | <1 | 0.83 | 0.004 | 0.03 | 0.2 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239158 | Soil | | 26 | 0.35 | 147 | 0.012 | <1 | 0.84 | 0.004 | 0.04 | 0.2 | 0.02 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239159 | Soil | | 16 | 0.27 | 155 | 0.009 | <1 | 0.76 | 0.006 | 0.05 | 0.1 | 0.02 | 2.4 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239160 | Soil | | 20 | 0.32 | 189 | 0.012 | <1 | 0.89 | 0.004 | 0.03 | 0.4 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239161 | Soil | | 19 | 0.28 | 82 | 0.012 | <1 | 0.81 | 0.004 | 0.04 | 0.2 | <0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239162 | Soil | | 21 | 0.34 | 136 | 0.016 | <1 | 0.89 | 0.004 | 0.03 | 0.2 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239163 | Soil | | 21 | 0.33 | 163 | 0.012 | <1 | 0.92 | 0.004 | 0.03 | 0.3 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239164 | Soil | 0.6 | 24.8 | 14.9 | 50 | 0.1 | 22.3 | 7.9 | 172 | 2.28 | 9.3 | 1.9 | 8.6 | 25 | <0.1 | 0.7 | 0.1 | 23 | 0.34 | 0.040 | 29 |
| 1239165 | Soil | 0.6 | 25.3 | 17.0 | 48 | 0.2 | 23.6 | 9.1 | 318 | 2.30 | 10.3 | 6.4 | 6.8 | 33 | <0.1 | 0.7 | 0.2 | 23 | 0.46 | 0.049 | 28 |
| 1239166 | Soil | 0.6 | 21.1 | 13.7 | 57 | <0.1 | 20.2 | 8.2 | 251 | 2.33 | 12.0 | 18.9 | 9.2 | 20 | <0.1 | 0.8 | 0.1 | 22 | 0.25 | 0.051 | 28 |
| 1239167 | Soil | 0.6 | 23.3 | 15.7 | 58 | 0.1 | 21.5 | 8.5 | 280 | 2.36 | 11.9 | 9.1 | 9.0 | 23 | 0.1 | 0.9 | 0.1 | 24 | 0.30 | 0.055 | 28 |
| 1239168 | Soil | 1.0 | 28.7 | 15.6 | 51 | 0.2 | 24.4 | 13.8 | 1274 | 2.25 | 9.4 | 2.6 | 3.8 | 93 | 0.4 | 0.8 | 0.2 | 21 | 1.15 | 0.066 | 20 |
| 1239169 | Soil | 0.5 | 22.3 | 13.7 | 50 | 0.1 | 20.6 | 8.8 | 247 | 2.08 | 9.7 | 21.2 | 5.6 | 38 | 0.1 | 0.6 | 0.1 | 27 | 0.40 | 0.054 | 21 |
| 1239170 | Soil | 0.6 | 16.9 | 11.1 | 46 | 0.1 | 18.5 | 9.6 | 327 | 2.05 | 11.3 | 43.9 | 4.9 | 37 | <0.1 | 0.8 | <0.1 | 28 | 0.39 | 0.060 | 18 |
| 1239171 | Soil | 0.6 | 20.4 | 11.2 | 48 | 0.1 | 19.9 | 8.3 | 683 | 1.86 | 9.7 | 0.9 | 3.8 | 49 | 0.2 | 0.7 | <0.1 | 24 | 0.57 | 0.059 | 15 |
| 1239172 | Soil | 1.1 | 21.4 | 11.8 | 51 | 0.2 | 25.9 | 12.3 | 3770 | 2.18 | 14.1 | 4.3 | 3.8 | 69 | 0.4 | 0.9 | 0.3 | 26 | 0.77 | 0.059 | 17 |
| 1239173 | Soil | 0.5 | 22.5 | 13.3 | 59 | 0.2 | 21.3 | 8.5 | 212 | 1.94 | 9.8 | 4.1 | 5.6 | 42 | 0.2 | 0.8 | 0.1 | 25 | 0.48 | 0.062 | 21 |
| 1239174 | Soil | 0.5 | 17.7 | 12.0 | 46 | <0.1 | 17.7 | 6.8 | 233 | 1.76 | 15.8 | 1.7 | 5.3 | 48 | 0.2 | 0.7 | 0.1 | 22 | 0.58 | 0.044 | 17 |
| 1239175 | Soil | 0.8 | 22.1 | 19.1 | 56 | <0.1 | 22.0 | 10.3 | 622 | 2.31 | 13.9 | 2.0 | 7.7 | 34 | 0.2 | 0.8 | 0.1 | 19 | 0.42 | 0.047 | 19 |
| 1239176 | Soil | 0.7 | 24.9 | 17.3 | 52 | 0.1 | 22.4 | 9.6 | 522 | 2.38 | 13.0 | 8.7 | 7.2 | 55 | <0.1 | 0.8 | 0.2 | 24 | 0.66 | 0.035 | 22 |
| 1239177 | Soil | 0.5 | 35.5 | 12.7 | 37 | 0.1 | 24.3 | 6.9 | 463 | 1.63 | 8.8 | 1.8 | 1.9 | 113 | 0.5 | 0.7 | 0.1 | 17 | 1.80 | 0.055 | 12 |
| 1239178 | Soil | 0.7 | 27.9 | 14.8 | 52 | 0.1 | 23.2 | 9.1 | 212 | 2.22 | 10.5 | 2.2 | 5.7 | 30 | 0.1 | 0.7 | 0.1 | 22 | 0.42 | 0.044 | 17 |
| 1239179 | Soil | 0.7 | 17.1 | 13.6 | 45 | <0.1 | 17.2 | 7.9 | 249 | 2.06 | 11.2 | 4.3 | 6.7 | 22 | <0.1 | 1.0 | 0.1 | 20 | 0.24 | 0.030 | 19 |
| 1239180 | Soil | 4.2 | 90.3 | 22.1 | 80 | 0.7 | 39.3 | 15.5 | 470 | 3.04 | 25.2 | 4.2 | 12.8 | 68 | 0.4 | 2.9 | 0.3 | 16 | 1.83 | 0.058 | 26 |
| 1239181 | Soil | 1.2 | 39.9 | 17.3 | 56 | 0.2 | 26.4 | 10.6 | 449 | 2.64 | 13.6 | 8.6 | 7.0 | 39 | 0.2 | 1.1 | 0.2 | 20 | 0.48 | 0.047 | 22 |
| 1239182 | Soil | 0.8 | 21.4 | 15.2 | 48 | 0.1 | 19.1 | 9.2 | 384 | 2.20 | 11.4 | 11.2 | 6.1 | 29 | 0.1 | 0.9 | 0.1 | 20 | 0.38 | 0.029 | 19 |
| 1239183 | Soil | 0.8 | 29.1 | 15.9 | 54 | 0.2 | 23.0 | 9.0 | 301 | 2.36 | 13.6 | 5.7 | 7.4 | 25 | 0.2 | 1.0 | 0.2 | 21 | 0.33 | 0.039 | 21 |

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Project: MQ
Report Date: July 06, 2012



# CERTIFICATE OF ANALYSIS DAW12000051.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239164 | Soil | | 17 | 0.29 | 176 | 0.010 | <1 | 0.85 | 0.006 | 0.03 | 0.3 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239165 | Soil | | 16 | 0.26 | 201 | 0.008 | <1 | 0.81 | 0.006 | 0.04 | 0.3 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239166 | Soil | | 16 | 0.32 | 169 | 0.012 | <1 | 0.82 | 0.006 | 0.04 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239167 | Soil | | 16 | 0.29 | 148 | 0.016 | <1 | 0.76 | 0.008 | 0.04 | 0.9 | 0.03 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239168 | Soil | | 16 | 0.32 | 309 | 0.006 | <1 | 0.94 | 0.008 | 0.04 | 0.3 | 0.06 | 2.1 | <0.1 | <0.05 | 3 | 0.5 | 1 | <0.2 |
| 1239169 | Soil | | 17 | 0.32 | 183 | 0.012 | <1 | 0.92 | 0.005 | 0.04 | 0.4 | 0.04 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239170 | Soil | | 15 | 0.30 | 192 | 0.023 | <1 | 0.75 | 0.005 | 0.03 | 0.9 | 0.03 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239171 | Soil | | 15 | 0.30 | 224 | 0.014 | <1 | 0.77 | 0.006 | 0.03 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239172 | Soil | | 16 | 0.32 | 439 | 0.012 | <1 | 0.84 | 0.007 | 0.04 | 0.4 | 0.04 | 2.3 | 0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1239173 | Soil | | 16 | 0.32 | 200 | 0.015 | <1 | 0.86 | 0.007 | 0.04 | 0.2 | 0.04 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239174 | Soil | | 13 | 0.30 | 132 | 0.016 | <1 | 0.73 | 0.006 | 0.04 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239175 | Soil | | 14 | 0.34 | 146 | 0.014 | <1 | 0.74 | 0.005 | 0.04 | 0.3 | 0.01 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239176 | Soil | | 18 | 0.37 | 282 | 0.007 | <1 | 1.04 | 0.007 | 0.05 | 0.1 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239177 | Soil | | 12 | 0.28 | 275 | 0.008 | 1 | 0.71 | 0.008 | 0.03 | 0.1 | 0.04 | 1.4 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |
| 1239178 | Soil | | 15 | 0.30 | 166 | 0.014 | <1 | 0.73 | 0.005 | 0.03 | 0.3 | 0.02 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239179 | Soil | | 13 | 0.26 | 117 | 0.012 | <1 | 0.66 | 0.005 | 0.04 | 0.2 | 0.01 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239180 | Soil | | 11 | 0.64 | 68 | 0.004 | <1 | 0.70 | 0.004 | 0.05 | <0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 2 | 0.7 | <1 | <0.2 |
| 1239181 | Soil | | 15 | 0.37 | 147 | 0.010 | <1 | 0.88 | 0.005 | 0.05 | 0.2 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239182 | Soil | | 13 | 0.31 | 115 | 0.014 | <1 | 0.68 | 0.005 | 0.04 | 0.2 | 0.01 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239183 | Soil | | 14 | 0.33 | 141 | 0.014 | <1 | 0.77 | 0.005 | 0.04 | 0.3 | 0.02 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1238082 | Soil | 0.5 | 23.9 | 9.2 | 51 | 0.2 | 19.1 | 6.8 | 106 | 1.41 | 4.3 | 5.2 | 3.2 | 18 | 0.3 | 0.7 | 0.1 | 31 | 0.35 | 0.068 | 13 |
| REP 1238082 | QC | 0.5 | 23.3 | 9.1 | 53 | 0.2 | 18.8 | 6.5 | 101 | 1.39 | 5.0 | 79.9 | 3.4 | 19 | 0.3 | 0.7 | <0.1 | 32 | 0.34 | 0.069 | 14 |
| 1238100 | Soil | 1.2 | 31.1 | 24.0 | 69 | 0.2 | 26.7 | 14.1 | 564 | 3.36 | 11.8 | 3.4 | 3.6 | 15 | 0.1 | 1.3 | 0.2 | 35 | 0.15 | 0.044 | 27 |
| REP 1238100 | QC | 1.2 | 30.4 | 24.4 | 69 | 0.2 | 26.8 | 14.0 | 566 | 3.33 | 11.9 | 4.4 | 3.7 | 15 | <0.1 | 1.2 | 0.3 | 34 | 0.16 | 0.047 | 26 |
| 1238119 | Soil | 1.0 | 34.6 | 18.0 | 60 | <0.1 | 32.6 | 13.4 | 351 | 2.73 | 9.6 | 5.4 | 8.7 | 20 | 0.1 | 0.8 | 0.2 | 25 | 0.20 | 0.038 | 28 |
| REP 1238119 | QC | 0.9 | 34.1 | 17.7 | 60 | <0.1 | 33.1 | 13.6 | 354 | 2.70 | 9.2 | 3.0 | 8.5 | 20 | 0.1 | 0.8 | 0.2 | 25 | 0.20 | 0.041 | 28 |
| 1238137 | Soil | 0.4 | 16.5 | 12.5 | 82 | <0.1 | 21.0 | 8.8 | 320 | 1.81 | 4.4 | 1.1 | 4.8 | 27 | 0.3 | 0.4 | 0.3 | 19 | 0.30 | 0.057 | 24 |
| REP 1238137 | QC | 0.4 | 16.1 | 12.8 | 83 | <0.1 | 21.1 | 9.2 | 328 | 1.87 | 4.6 | 14.1 | 5.1 | 28 | 0.3 | 0.4 | 0.2 | 20 | 0.31 | 0.057 | 24 |
| 1238289 | Soil | 1.0 | 34.5 | 15.3 | 68 | <0.1 | 26.5 | 10.1 | 378 | 2.63 | 11.2 | 2.2 | 6.5 | 15 | 0.1 | 0.9 | 0.2 | 30 | 0.13 | 0.050 | 21 |
| REP 1238289 | QC | 1.0 | 32.9 | 15.8 | 69 | <0.1 | 25.9 | 10.0 | 365 | 2.59 | 11.0 | 3.4 | 6.1 | 14 | 0.1 | 1.0 | 0.2 | 29 | 0.13 | 0.048 | 20 |
| 1238307 | Soil | 1.3 | 16.8 | 20.7 | 52 | 0.1 | 9.6 | 5.4 | 145 | 2.74 | 7.2 | 13.6 | 10.4 | 11 | <0.1 | 0.5 | 0.3 | 43 | 0.04 | 0.035 | 36 |
| REP 1238307 | QC | 1.3 | 16.3 | 19.8 | 51 | 0.1 | 9.2 | 5.2 | 146 | 2.71 | 7.3 | 0.7 | 10.0 | 11 | <0.1 | 0.6 | 0.3 | 43 | 0.04 | 0.033 | 35 |
| 1238325 | Soil | 0.6 | 27.3 | 11.6 | 48 | 0.1 | 22.2 | 8.6 | 338 | 2.11 | 16.7 | 3.9 | 4.9 | 32 | <0.1 | 1.7 | 0.2 | 29 | 0.36 | 0.047 | 16 |
| REP 1238325 | QC | 0.6 | 27.5 | 11.7 | 48 | 0.1 | 21.6 | 8.3 | 333 | 2.11 | 16.3 | 3.8 | 4.6 | 32 | <0.1 | 1.6 | 0.2 | 28 | 0.36 | 0.045 | 16 |
| 1238343 | Soil | 0.8 | 22.5 | 12.5 | 48 | <0.1 | 20.0 | 8.8 | 225 | 2.19 | 13.7 | 2.3 | 7.5 | 8 | <0.1 | 3.2 | <0.1 | 31 | 0.05 | 0.016 | 20 |
| REP 1238343 | QC | 0.8 | 22.7 | 12.6 | 47 | <0.1 | 19.6 | 8.9 | 228 | 2.21 | 13.4 | 9.7 | 7.2 | 8 | 0.1 | 3.1 | <0.1 | 31 | 0.05 | 0.016 | 20 |
| 1238361 | Soil | 0.8 | 28.2 | 13.9 | 51 | 0.1 | 19.6 | 9.3 | 195 | 2.34 | 5.9 | 10.3 | 9.2 | 16 | <0.1 | 0.8 | 0.2 | 28 | 0.21 | 0.039 | 31 |
| REP 1238361 | QC | 0.8 | 28.8 | 14.0 | 52 | 0.1 | 21.2 | 9.5 | 202 | 2.38 | 6.1 | 5.3 | 9.5 | 17 | <0.1 | 0.8 | 0.2 | 28 | 0.22 | 0.036 | 31 |
| 1238406 | Soil | 0.6 | 29.1 | 15.1 | 51 | <0.1 | 33.9 | 13.5 | 310 | 2.92 | 7.0 | 2.1 | 6.4 | 13 | <0.1 | 0.2 | 0.2 | 28 | 0.12 | 0.035 | 38 |
| REP 1238406 | QC | 0.8 | 29.8 | 14.7 | 52 | <0.1 | 33.0 | 13.5 | 314 | 2.99 | 7.0 | 1.9 | 6.6 | 13 | <0.1 | 0.3 | 0.2 | 28 | 0.12 | 0.035 | 39 |
| 1238729 | Soil | 1.0 | 30.0 | 25.7 | 64 | 0.2 | 26.2 | 13.2 | 484 | 2.71 | 25.6 | 2.9 | 9.2 | 18 | 0.3 | 4.9 | 0.3 | 18 | 0.36 | 0.051 | 23 |
| REP 1238729 | QC | 0.9 | 30.7 | 25.3 | 65 | 0.2 | 27.7 | 13.8 | 479 | 2.83 | 26.7 | 1.5 | 9.3 | 19 | 0.3 | 5.0 | 0.3 | 20 | 0.39 | 0.051 | 24 |
| 1238921 | Soil | 0.5 | 24.3 | 15.5 | 53 | 0.1 | 24.1 | 9.6 | 384 | 2.23 | 11.0 | 3.8 | 6.0 | 39 | 0.2 | 0.9 | 0.2 | 20 | 0.72 | 0.047 | 22 |
| REP 1238921 | QC | 0.5 | 24.3 | 15.5 | 53 | 0.1 | 23.0 | 9.6 | 372 | 2.19 | 10.9 | 3.0 | 6.1 | 39 | 0.2 | 0.9 | 0.1 | 20 | 0.74 | 0.049 | 22 |
| 1238939 | Soil | <0.1 | 28.3 | 5.0 | 68 | <0.1 | 35.9 | 16.8 | 942 | 3.52 | <0.5 | 4.4 | 22.1 | 16 | <0.1 | 0.1 | 0.5 | 20 | 0.12 | 0.027 | 57 |
| REP 1238939 | QC | <0.1 | 26.6 | 5.0 | 66 | <0.1 | 33.8 | 15.6 | 913 | 3.40 | <0.5 | 4.8 | 21.5 | 17 | <0.1 | <0.1 | 0.5 | 21 | 0.12 | 0.027 | 58 |
| 1238949 | Soil | 0.8 | 27.4 | 18.1 | 60 | <0.1 | 29.3 | 17.0 | 473 | 2.60 | 9.1 | 2.9 | 11.1 | 5 | 0.1 | 0.7 | 0.2 | 20 | 0.03 | 0.024 | 35 |
| REP 1238949 | QC | 0.9 | 28.9 | 18.9 | 65 | <0.1 | 29.9 | 17.5 | 477 | 2.82 | 9.7 | 9.9 | 11.9 | 5 | <0.1 | 0.9 | 0.2 | 23 | 0.03 | 0.026 | 38 |

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Project: MQ
Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1238082 | Soil | 16 | 0.30 | 196 | 0.027 | 1 | 0.64 | 0.004 | 0.02 | 1.4 | 0.04 | 2.0 | <0.1 | 0.07 | 2 | <0.5 | 2 | <0.2 |
| REP 1238082 | QC | 17 | 0.30 | 198 | 0.029 | 1 | 0.63 | 0.004 | 0.02 | 1.4 | 0.03 | 2.0 | <0.1 | <0.05 | 2 | 0.5 | 2 | <0.2 |
| 1238100 | Soil | 22 | 0.34 | 278 | 0.008 | <1 | 1.36 | 0.004 | 0.05 | 0.4 | 0.05 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| REP 1238100 | QC | 23 | 0.35 | 262 | 0.007 | <1 | 1.36 | 0.004 | 0.04 | 0.5 | 0.05 | 2.7 | 0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1238119 | Soil | 20 | 0.29 | 214 | 0.019 | <1 | 0.81 | 0.005 | 0.03 | 0.1 | 0.10 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| REP 1238119 | QC | 19 | 0.29 | 212 | 0.013 | <1 | 0.85 | 0.005 | 0.03 | 0.1 | 0.10 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1238137 | Soil | 17 | 0.31 | 103 | 0.010 | <1 | 0.69 | 0.004 | 0.04 | 0.3 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| REP 1238137 | QC | 17 | 0.31 | 101 | 0.009 | <1 | 0.71 | 0.004 | 0.04 | 0.2 | 0.05 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1238289 | Soil | 19 | 0.41 | 236 | 0.026 | 2 | 1.08 | 0.008 | 0.05 | 0.3 | 0.04 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1238289 | QC | 19 | 0.38 | 234 | 0.025 | 2 | 0.97 | 0.008 | 0.04 | 0.3 | 0.04 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1238307 | Soil | 23 | 0.39 | 92 | 0.017 | <1 | 1.73 | 0.005 | 0.04 | <0.1 | 0.02 | 2.4 | 0.1 | <0.05 | 6 | <0.5 | <1 | <0.2 |
| REP 1238307 | QC | 22 | 0.38 | 99 | 0.014 | <1 | 1.71 | 0.005 | 0.03 | 0.1 | 0.03 | 2.4 | 0.1 | <0.05 | 6 | <0.5 | <1 | <0.2 |
| 1238325 | Soil | 18 | 0.33 | 201 | 0.023 | 1 | 0.87 | 0.010 | 0.04 | 0.3 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| REP 1238325 | QC | 18 | 0.33 | 207 | 0.022 | 2 | 0.87 | 0.009 | 0.04 | 0.3 | 0.05 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238343 | Soil | 20 | 0.30 | 141 | 0.024 | <1 | 1.09 | 0.005 | 0.06 | 0.2 | 0.05 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1238343 | QC | 20 | 0.30 | 139 | 0.024 | <1 | 1.07 | 0.006 | 0.06 | 0.2 | 0.02 | 2.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238361 | Soil | 19 | 0.43 | 195 | 0.009 | <1 | 1.07 | 0.005 | 0.03 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| REP 1238361 | QC | 20 | 0.42 | 198 | 0.009 | <1 | 1.11 | 0.005 | 0.03 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1238406 | Soil | 27 | 0.22 | 97 | 0.004 | <1 | 0.71 | 0.004 | 0.07 | <0.1 | 0.04 | 2.2 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| REP 1238406 | QC | 28 | 0.22 | 101 | 0.004 | <1 | 0.73 | 0.004 | 0.07 | <0.1 | 0.03 | 2.2 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238729 | Soil | 17 | 0.33 | 114 | 0.013 | 2 | 0.64 | 0.006 | 0.06 | 0.2 | 0.08 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238729 | QC | 17 | 0.32 | 119 | 0.014 | 1 | 0.60 | 0.005 | 0.08 | 0.2 | 0.08 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238921 | Soil | 14 | 0.27 | 131 | 0.009 | 1 | 0.66 | 0.007 | 0.04 | 0.1 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238921 | QC | 14 | 0.27 | 133 | 0.009 | 1 | 0.68 | 0.006 | 0.04 | 0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238939 | Soil | 16 | 0.28 | 26 | 0.029 | <1 | 0.50 | 0.003 | 0.04 | <0.1 | <0.01 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238939 | QC | 16 | 0.29 | 26 | 0.030 | <1 | 0.51 | 0.003 | 0.04 | <0.1 | <0.01 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238949 | Soil | 15 | 0.33 | 107 | 0.012 | <1 | 0.93 | 0.004 | 0.02 | 0.1 | 0.03 | 2.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238949 | QC | 16 | 0.36 | 109 | 0.017 | <1 | 0.99 | 0.004 | 0.03 | 0.1 | 0.04 | 3.4 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 | 1DX15 La ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1238957 | Soil | 2.5 | 56.2 | 31.5 | 65 | <0.1 | 21.2 | 6.9 | 127 | 4.59 | 4.3 | 1.8 | 17.8 | 6 | <0.1 | 0.4 | 0.5 | 16 | 0.02 | 0.042 | 45 |
| REP 1238957 | QC | 2.3 | 55.1 | 32.0 | 63 | <0.1 | 21.3 | 7.0 | 127 | 4.66 | 4.1 | 2.0 | 18.5 | 6 | <0.1 | 0.4 | 0.5 | 16 | 0.02 | 0.042 | 45 |
| 1238975 | Soil | 0.9 | 28.6 | 22.2 | 70 | 0.1 | 25.4 | 11.1 | 350 | 2.53 | 57.9 | 9.1 | 7.4 | 24 | 0.2 | 6.0 | 0.4 | 21 | 0.36 | 0.059 | 21 |
| REP 1238975 | QC | 0.9 | 28.3 | 21.8 | 69 | 0.2 | 25.4 | 10.7 | 352 | 2.54 | 57.9 | 40.5 | 6.9 | 25 | 0.2 | 5.8 | 0.4 | 21 | 0.37 | 0.060 | 21 |
| 1238993 | Soil | 0.7 | 21.6 | 7.6 | 50 | <0.1 | 18.4 | 7.2 | 219 | 1.88 | 13.4 | 2.5 | 3.4 | 14 | <0.1 | 1.2 | 0.1 | 26 | 0.19 | 0.063 | 12 |
| REP 1238993 | QC | 0.8 | 21.8 | 7.5 | 49 | <0.1 | 17.7 | 7.1 | 214 | 1.85 | 13.1 | 5.7 | 3.2 | 14 | <0.1 | 1.3 | 0.1 | 26 | 0.18 | 0.061 | 12 |
| 1239172 | Soil | 1.1 | 21.4 | 11.8 | 51 | 0.2 | 25.9 | 12.3 | 3770 | 2.18 | 14.1 | 4.3 | 3.8 | 69 | 0.4 | 0.9 | 0.3 | 26 | 0.77 | 0.059 | 17 |
| REP 1239172 | QC | 1.1 | 21.3 | 11.6 | 51 | 0.2 | 25.9 | 12.4 | 3661 | 2.18 | 14.1 | 40.1 | 4.0 | 69 | 0.3 | 1.0 | 0.2 | 26 | 0.76 | 0.057 | 18 |
| 1239176 | Soil | 0.7 | 24.9 | 17.3 | 52 | 0.1 | 22.4 | 9.6 | 522 | 2.38 | 13.0 | 8.7 | 7.2 | 55 | <0.1 | 0.8 | 0.2 | 24 | 0.66 | 0.035 | 22 |
| REP 1239176 | QC | 0.6 | 24.5 | 17.4 | 51 | 0.1 | 22.6 | 9.8 | 518 | 2.37 | 13.0 | 1.2 | 7.0 | 56 | 0.1 | 0.8 | 0.1 | 23 | 0.67 | 0.035 | 22 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 11.6 | 105.3 | 121.6 | 291 | 1.8 | 36.6 | 7.1 | 535 | 2.12 | 25.9 | 114.6 | 6.6 | 75 | 2.3 | 6.3 | 6.2 | 37 | 0.66 | 0.080 | 12 |
| STD DS9 | Standard | 11.9 | 105.2 | 121.1 | 279 | 1.7 | 34.8 | 6.7 | 517 | 2.04 | 23.8 | 104.3 | 6.8 | 74 | 2.4 | 6.0 | 6.2 | 37 | 0.64 | 0.076 | 13 |
| STD DS9 | Standard | 12.3 | 107.1 | 122.2 | 291 | 1.9 | 35.9 | 7.0 | 525 | 2.08 | 24.0 | 110.8 | 6.9 | 76 | 2.3 | 6.3 | 6.1 | 38 | 0.65 | 0.077 | 13 |
| STD DS9 | Standard | 13.2 | 109.5 | 119.6 | 295 | 1.9 | 39.7 | 7.5 | 570 | 2.27 | 24.3 | 119.4 | 6.7 | 66 | 2.3 | 5.2 | 5.7 | 44 | 0.70 | 0.082 | 13 |
| STD DS9 | Standard | 13.8 | 113.8 | 120.7 | 294 | 1.8 | 41.8 | 7.9 | 566 | 2.35 | 23.6 | 112.5 | 6.8 | 65 | 2.2 | 5.3 | 5.8 | 44 | 0.70 | 0.073 | 14 |
| STD DS9 | Standard | 14.7 | 115.4 | 124.5 | 305 | 1.8 | 42.3 | 7.8 | 582 | 2.33 | 23.9 | 110.2 | 7.0 | 66 | 2.3 | 5.6 | 6.2 | 49 | 0.73 | 0.079 | 15 |
| STD DS9 | Standard | 12.8 | 108.6 | 123.4 | 279 | 1.8 | 39.4 | 7.6 | 523 | 2.12 | 23.0 | 113.6 | 6.1 | 59 | 2.0 | 5.0 | 6.1 | 39 | 0.64 | 0.081 | 12 |
| STD DS9 | Standard | 12.4 | 101.7 | 122.2 | 303 | 1.9 | 39.5 | 7.4 | 563 | 2.27 | 25.0 | 124.6 | 5.3 | 65 | 2.2 | 5.4 | 6.1 | 41 | 0.67 | 0.083 | 12 |
| STD DS9 | Standard | 12.6 | 115.2 | 119.4 | 300 | 1.8 | 38.3 | 7.3 | 554 | 2.21 | 25.9 | 126.6 | 6.7 | 79 | 2.4 | 5.9 | 6.3 | 41 | 0.70 | 0.078 | 14 |
| STD DS9 | Standard | 12.6 | 107.1 | 121.3 | 301 | 1.8 | 40.6 | 7.4 | 559 | 2.27 | 25.1 | 125.6 | 6.0 | 63 | 2.5 | 5.4 | 5.9 | 40 | 0.65 | 0.081 | 11 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | 0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 4 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 5 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Project: MQ
Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 | 1DX15 Sn ppm 1 | 1DX15 Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1238957 | Soil | 18 | 0.36 | 59 | 0.002 | <1 | 1.10 | 0.003 | 0.04 | <0.1 | 0.01 | 1.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1238957 | QC | 19 | 0.36 | 57 | 0.003 | <1 | 1.08 | 0.003 | 0.04 | <0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1238975 | Soil | 16 | 0.33 | 145 | 0.016 | <1 | 0.72 | 0.008 | 0.07 | 1.2 | 0.06 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238975 | QC | 16 | 0.35 | 144 | 0.016 | 1 | 0.71 | 0.007 | 0.07 | 1.0 | 0.06 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238993 | Soil | 17 | 0.28 | 212 | 0.020 | <1 | 0.71 | 0.005 | 0.03 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1238993 | QC | 17 | 0.27 | 208 | 0.019 | <1 | 0.70 | 0.005 | 0.03 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239172 | Soil | 16 | 0.32 | 439 | 0.012 | <1 | 0.84 | 0.007 | 0.04 | 0.4 | 0.04 | 2.3 | 0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| REP 1239172 | QC | 16 | 0.32 | 427 | 0.014 | 1 | 0.86 | 0.007 | 0.04 | 0.6 | 0.04 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239176 | Soil | 18 | 0.37 | 282 | 0.007 | <1 | 1.04 | 0.007 | 0.05 | 0.1 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239176 | QC | 17 | 0.37 | 283 | 0.007 | <1 | 1.05 | 0.007 | 0.04 | 0.1 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 106 | 0.56 | 293 | 0.109 | 2 | 0.87 | 0.096 | 0.35 | 2.7 | 0.20 | 2.8 | 5.2 | 0.12 | 4 | 5.1 | 7 | 4.6 |
| STD DS9 | Standard | 105 | 0.54 | 282 | 0.111 | 2 | 0.85 | 0.084 | 0.35 | 2.8 | 0.20 | 2.8 | 4.9 | 0.11 | 4 | 5.3 | 7 | 4.8 |
| STD DS9 | Standard | 110 | 0.57 | 284 | 0.116 | 3 | 0.87 | 0.090 | 0.36 | 2.9 | 0.21 | 3.0 | 5.2 | 0.10 | 4 | 4.6 | 7 | 4.4 |
| STD DS9 | Standard | 121 | 0.63 | 281 | 0.106 | 2 | 0.93 | 0.087 | 0.38 | 2.8 | 0.22 | 2.6 | 5.5 | <0.05 | 5 | 5.2 | 6 | 5.5 |
| STD DS9 | Standard | 124 | 0.60 | 286 | 0.112 | 2 | 0.87 | 0.076 | 0.33 | 2.8 | 0.23 | 2.6 | 5.3 | 0.20 | 5 | 5.0 | 6 | 4.6 |
| STD DS9 | Standard | 130 | 0.62 | 303 | 0.123 | 3 | 0.94 | 0.090 | 0.37 | 3.2 | 0.20 | 2.8 | 5.6 | 0.18 | 5 | 5.4 | 6 | 5.5 |
| STD DS9 | Standard | 113 | 0.57 | 309 | 0.097 | 3 | 0.80 | 0.078 | 0.34 | 2.9 | 0.21 | 2.2 | 5.4 | 0.17 | 4 | 4.6 | 6 | 5.2 |
| STD DS9 | Standard | 116 | 0.60 | 297 | 0.100 | 2 | 0.89 | 0.086 | 0.36 | 3.1 | 0.20 | 2.2 | 5.6 | 0.13 | 5 | 5.3 | 6 | 5.6 |
| STD DS9 | Standard | 117 | 0.59 | 281 | 0.123 | 3 | 0.91 | 0.097 | 0.37 | 2.7 | 0.19 | 2.9 | 5.4 | 0.15 | 5 | 4.9 | 7 | 4.8 |
| STD DS9 | Standard | 119 | 0.61 | 273 | 0.095 | 2 | 0.92 | 0.079 | 0.34 | 2.9 | 0.22 | 2.6 | 5.3 | 0.12 | 4 | 4.7 | 6 | 5.4 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 | 1DX15 La ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 3 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Report Date: July 06, 2012



# QUALITY CONTROL REPORT DAW12000051.1

| | | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 | 1DX15 Sn ppm 1 | 1DX15 Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: June 25, 2012
Report Date: July 05, 2012
Page: 1 of 6

# CERTIFICATE OF ANALYSIS DAW12000052.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Soils 2
P.O. Number
Number of Samples: 140

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 140 | Dry at 60C | | | DAW |
| SS80 | 140 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 140 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 140 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239184 | Soil | 1.0 | 20.9 | 14.0 | 53 | 0.1 | 20.5 | 8.9 | 291 | 2.32 | 11.7 | 2.3 | 5.1 | 18 | 0.1 | 0.8 | 0.2 | 34 | 0.34 | 0.025 | 14 |
| 1239185 | Soil | 0.8 | 18.4 | 14.7 | 50 | 0.1 | 18.2 | 7.6 | 295 | 1.86 | 12.6 | 1.0 | 4.6 | 22 | 0.1 | 1.2 | 0.2 | 23 | 0.43 | 0.040 | 15 |
| 1239186 | Soil | 0.9 | 26.1 | 24.8 | 63 | <0.1 | 25.2 | 9.8 | 317 | 2.68 | 25.0 | 4.6 | 8.1 | 17 | 0.2 | 4.4 | 0.3 | 25 | 0.26 | 0.029 | 26 |
| 1239187 | Soil | 1.0 | 21.5 | 17.0 | 51 | <0.1 | 19.2 | 7.9 | 223 | 2.62 | 9.8 | 1.3 | 8.3 | 7 | <0.1 | 1.1 | 0.2 | 44 | 0.04 | 0.020 | 20 |
| 1239188 | Soil | 1.1 | 22.7 | 14.7 | 53 | <0.1 | 22.9 | 8.0 | 208 | 2.53 | 11.3 | 3.7 | 7.8 | 6 | <0.1 | 1.0 | 0.2 | 41 | 0.05 | 0.018 | 22 |
| 1239189 | Soil | 1.5 | 23.5 | 14.5 | 59 | <0.1 | 25.5 | 10.3 | 320 | 3.14 | 12.4 | 5.8 | 6.1 | 12 | 0.1 | 1.4 | 0.2 | 55 | 0.06 | 0.023 | 15 |
| 1239190 | Soil | 1.0 | 15.9 | 12.6 | 46 | 0.2 | 19.0 | 6.9 | 198 | 2.51 | 12.1 | 4.4 | 5.0 | 7 | <0.1 | 0.8 | 0.2 | 48 | 0.05 | 0.020 | 14 |
| 1239191 | Soil | 0.7 | 37.0 | 26.4 | 69 | 0.1 | 36.8 | 14.4 | 258 | 3.16 | 7.2 | 2.2 | 13.4 | 10 | <0.1 | 4.5 | 0.2 | 26 | 0.03 | 0.028 | 32 |
| 1239192 | Soil | 1.0 | 17.1 | 11.0 | 44 | 0.1 | 18.8 | 6.8 | 206 | 2.76 | 10.6 | 2.1 | 5.5 | 7 | <0.1 | 0.9 | 0.2 | 44 | 0.05 | 0.027 | 17 |
| 1239193 | Soil | 0.7 | 18.1 | 16.4 | 50 | 0.2 | 19.7 | 8.1 | 303 | 2.62 | 6.9 | 0.7 | 6.9 | 8 | <0.1 | 0.8 | 0.2 | 37 | 0.07 | 0.029 | 20 |
| 1239194 | Soil | 0.7 | 27.1 | 13.8 | 49 | 0.1 | 21.7 | 7.6 | 196 | 2.39 | 9.9 | 27.8 | 6.6 | 9 | <0.1 | 1.1 | 0.2 | 41 | 0.07 | 0.019 | 19 |
| 1239195 | Soil | 0.7 | 8.6 | 11.1 | 22 | 0.1 | 9.5 | 3.8 | 134 | 1.36 | 7.5 | 2.2 | 3.7 | 7 | <0.1 | 0.5 | 0.1 | 30 | 0.06 | 0.019 | 14 |
| 1239196 | Soil | 0.8 | 23.2 | 12.9 | 48 | <0.1 | 20.3 | 7.2 | 199 | 2.31 | 9.6 | 2.9 | 7.8 | 6 | <0.1 | 1.3 | 0.2 | 38 | 0.05 | 0.012 | 16 |
| 1239197 | Soil | 1.0 | 17.0 | 12.5 | 41 | 0.1 | 18.2 | 6.3 | 181 | 2.15 | 9.6 | 0.9 | 4.7 | 9 | <0.1 | 1.9 | 0.2 | 37 | 0.06 | 0.019 | 17 |
| 1239198 | Soil | 0.7 | 19.6 | 14.1 | 44 | <0.1 | 18.8 | 7.5 | 198 | 2.20 | 7.9 | 0.6 | 6.1 | 11 | <0.1 | 3.1 | 0.2 | 29 | 0.04 | 0.021 | 22 |
| 1239199 | Soil | 1.1 | 24.6 | 13.8 | 48 | 0.1 | 21.8 | 8.2 | 204 | 2.41 | 11.1 | 2.4 | 7.3 | 12 | <0.1 | 8.9 | 0.2 | 39 | 0.07 | 0.014 | 19 |
| 1239200 | Soil | 0.7 | 22.5 | 14.8 | 46 | <0.1 | 19.5 | 8.0 | 204 | 2.26 | 13.3 | 4.6 | 7.9 | 14 | 0.1 | 15.3 | 0.2 | 25 | 0.04 | 0.016 | 21 |
| 1239201 | Soil | 0.6 | 31.5 | 17.6 | 58 | <0.1 | 25.5 | 11.1 | 290 | 2.75 | 16.3 | 8.0 | 10.3 | 20 | <0.1 | 29.6 | 0.2 | 23 | 0.05 | 0.022 | 27 |
| 1239202 | Soil | 0.8 | 19.2 | 13.8 | 43 | <0.1 | 18.4 | 8.2 | 415 | 2.17 | 9.8 | 1.6 | 6.8 | 14 | <0.1 | 7.4 | 0.2 | 31 | 0.09 | 0.021 | 21 |
| 1239203 | Soil | 1.1 | 25.1 | 15.2 | 50 | 0.1 | 23.4 | 8.9 | 337 | 2.37 | 10.3 | 8.1 | 6.8 | 21 | 0.1 | 8.1 | 0.2 | 29 | 0.23 | 0.028 | 23 |
| 1239204 | Soil | 0.7 | 31.3 | 22.6 | 77 | 0.1 | 31.3 | 14.7 | 1219 | 3.24 | 13.4 | 3.2 | 8.5 | 31 | <0.1 | 4.4 | 0.3 | 25 | 0.37 | 0.038 | 26 |
| 1239205 | Soil | 0.5 | 36.8 | 23.8 | 75 | 0.1 | 32.2 | 13.9 | 536 | 3.14 | 15.9 | 110.1 | 12.9 | 18 | <0.1 | 3.8 | 0.3 | 20 | 0.20 | 0.044 | 36 |
| 1239206 | Soil | 0.7 | 28.5 | 19.5 | 65 | <0.1 | 30.2 | 11.6 | 292 | 2.79 | 11.8 | 8.2 | 11.1 | 19 | <0.1 | 4.3 | 0.3 | 29 | 0.25 | 0.035 | 34 |
| 1239207 | Soil | 0.9 | 34.4 | 25.9 | 77 | 0.2 | 30.2 | 11.9 | 354 | 2.77 | 31.9 | 2.9 | 10.5 | 26 | 0.3 | 6.8 | 0.3 | 26 | 0.43 | 0.061 | 29 |
| 1239208 | Soil | 0.7 | 28.2 | 18.7 | 78 | 0.1 | 27.4 | 10.5 | 304 | 2.61 | 20.8 | 3.7 | 9.3 | 30 | 0.2 | 5.4 | 0.3 | 22 | 0.49 | 0.049 | 29 |
| 1239209 | Soil | 0.6 | 33.0 | 14.1 | 62 | <0.1 | 26.5 | 10.1 | 290 | 2.32 | 16.0 | 2.8 | 5.9 | 64 | 0.2 | 8.3 | 0.2 | 24 | 1.10 | 0.054 | 19 |
| 1239210 | Soil | 0.8 | 28.8 | 18.8 | 61 | 0.1 | 25.2 | 9.8 | 394 | 2.44 | 19.1 | 2.5 | 6.5 | 75 | 0.2 | 5.2 | 0.2 | 23 | 1.10 | 0.046 | 23 |
| 1239211 | Soil | 1.2 | 37.6 | 21.1 | 65 | 0.1 | 35.1 | 13.9 | 467 | 3.08 | 20.4 | 2.0 | 10.1 | 52 | 0.1 | 7.0 | 0.2 | 18 | 0.72 | 0.054 | 31 |
| 1239212 | Soil | 0.8 | 34.3 | 20.0 | 68 | 0.2 | 26.3 | 10.5 | 325 | 2.68 | 23.6 | 6.7 | 9.6 | 32 | <0.1 | 12.2 | 0.3 | 28 | 0.36 | 0.053 | 29 |
| 1239213 | Soil | 0.8 | 36.2 | 20.9 | 74 | 0.2 | 30.0 | 9.6 | 141 | 2.13 | 16.3 | 3.6 | 8.5 | 47 | 0.3 | 4.8 | 0.3 | 33 | 0.63 | 0.047 | 28 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239184 | Soil | 20 | 0.37 | 218 | 0.016 | <1 | 1.04 | 0.007 | 0.04 | 0.2 | 0.02 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239185 | Soil | 15 | 0.26 | 112 | 0.014 | 1 | 0.60 | 0.005 | 0.04 | 0.4 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239186 | Soil | 20 | 0.32 | 116 | 0.012 | 1 | 0.89 | 0.006 | 0.07 | 0.3 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239187 | Soil | 27 | 0.30 | 101 | 0.020 | <1 | 1.25 | 0.004 | 0.05 | 0.2 | 0.03 | 2.3 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239188 | Soil | 27 | 0.41 | 108 | 0.026 | <1 | 1.28 | 0.004 | 0.05 | 0.2 | 0.03 | 2.7 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239189 | Soil | 30 | 0.39 | 185 | 0.021 | <1 | 1.72 | 0.004 | 0.05 | 0.2 | 0.02 | 2.5 | 0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239190 | Soil | 29 | 0.37 | 131 | 0.029 | <1 | 1.57 | 0.004 | 0.04 | 0.2 | 0.05 | 2.7 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239191 | Soil | 20 | 0.39 | 81 | 0.006 | <1 | 1.36 | 0.003 | 0.09 | <0.1 | 0.03 | 1.6 | 0.2 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239192 | Soil | 25 | 0.31 | 110 | 0.013 | <1 | 1.32 | 0.004 | 0.05 | 0.2 | 0.03 | 2.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239193 | Soil | 20 | 0.32 | 130 | 0.010 | <1 | 1.19 | 0.003 | 0.08 | <0.1 | 0.03 | 1.7 | 0.1 | <0.05 | 4 | <0.5 | 3 | <0.2 |
| 1239194 | Soil | 24 | 0.31 | 132 | 0.025 | <1 | 1.05 | 0.004 | 0.05 | 0.3 | 0.05 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239195 | Soil | 13 | 0.17 | 130 | 0.020 | <1 | 0.68 | 0.004 | 0.04 | 0.3 | 0.02 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239196 | Soil | 25 | 0.32 | 123 | 0.025 | <1 | 1.13 | 0.004 | 0.04 | 0.2 | 0.04 | 2.3 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239197 | Soil | 21 | 0.27 | 144 | 0.019 | <1 | 1.03 | 0.004 | 0.06 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239198 | Soil | 16 | 0.19 | 119 | 0.014 | <1 | 0.78 | 0.003 | 0.07 | 0.2 | 0.04 | 1.6 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239199 | Soil | 26 | 0.34 | 157 | 0.018 | <1 | 1.29 | 0.005 | 0.06 | 0.1 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239200 | Soil | 16 | 0.21 | 94 | 0.011 | <1 | 0.78 | 0.003 | 0.08 | <0.1 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239201 | Soil | 16 | 0.19 | 121 | 0.007 | <1 | 0.71 | 0.004 | 0.11 | <0.1 | 0.10 | 2.0 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239202 | Soil | 18 | 0.24 | 257 | 0.011 | <1 | 0.91 | 0.004 | 0.09 | 0.2 | 0.03 | 2.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239203 | Soil | 20 | 0.29 | 242 | 0.014 | <1 | 0.86 | 0.005 | 0.08 | 0.1 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239204 | Soil | 20 | 0.41 | 181 | 0.007 | 1 | 1.19 | 0.005 | 0.12 | 0.1 | 0.07 | 2.4 | 0.1 | 0.08 | 4 | <0.5 | 1 | <0.2 |
| 1239205 | Soil | 20 | 0.48 | 92 | 0.013 | <1 | 1.07 | 0.005 | 0.07 | 0.2 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239206 | Soil | 24 | 0.45 | 135 | 0.018 | <1 | 1.27 | 0.005 | 0.06 | 0.3 | 0.05 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239207 | Soil | 19 | 0.39 | 133 | 0.019 | 1 | 0.93 | 0.009 | 0.11 | 0.5 | 0.05 | 2.5 | 0.1 | 0.07 | 3 | <0.5 | 2 | <0.2 |
| 1239208 | Soil | 18 | 0.31 | 132 | 0.013 | 2 | 0.89 | 0.007 | 0.12 | 0.4 | 0.04 | 2.0 | 0.1 | 0.06 | 3 | <0.5 | 1 | <0.2 |
| 1239209 | Soil | 16 | 0.32 | 197 | 0.008 | 2 | 0.96 | 0.007 | 0.09 | 0.2 | 0.06 | 2.3 | 0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1239210 | Soil | 17 | 0.26 | 237 | 0.011 | 2 | 0.84 | 0.007 | 0.07 | 0.3 | 0.04 | 2.8 | <0.1 | 0.07 | 3 | <0.5 | 2 | <0.2 |
| 1239211 | Soil | 15 | 0.25 | 87 | 0.008 | <1 | 0.67 | 0.005 | 0.08 | 0.2 | 0.08 | 2.7 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239212 | Soil | 20 | 0.33 | 177 | 0.015 | <1 | 0.99 | 0.007 | 0.10 | 0.3 | 0.08 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239213 | Soil | 23 | 0.45 | 287 | 0.016 | 1 | 1.18 | 0.009 | 0.08 | 0.4 | 0.04 | 3.0 | <0.1 | 0.05 | 4 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239214 | Soil | 1.1 | 48.1 | 25.3 | 63 | 0.2 | 36.8 | 12.1 | 498 | 2.69 | 25.7 | 2.9 | 7.1 | 49 | 0.4 | 4.6 | 0.3 | 27 | 0.66 | 0.057 | 32 |
| 1239215 | Soil | 0.8 | 22.1 | 15.8 | 48 | 0.3 | 21.7 | 9.2 | 381 | 2.10 | 23.2 | 7.8 | 6.1 | 25 | 0.2 | 3.7 | 0.2 | 27 | 0.38 | 0.037 | 23 |
| 1239216 | Soil | 0.8 | 24.1 | 15.4 | 53 | <0.1 | 21.8 | 9.0 | 221 | 2.36 | 15.4 | 1.8 | 7.6 | 12 | <0.1 | 3.7 | 0.2 | 28 | 0.15 | 0.030 | 26 |
| 1239217 | Soil | 0.8 | 28.6 | 18.3 | 64 | <0.1 | 27.4 | 11.7 | 301 | 2.99 | 17.8 | 1.4 | 11.8 | 16 | <0.1 | 4.2 | 0.3 | 24 | 0.21 | 0.026 | 36 |
| 1239218 | Soil | 1.0 | 34.0 | 27.0 | 82 | <0.1 | 35.7 | 15.7 | 481 | 3.29 | 27.8 | 8.0 | 14.7 | 15 | 0.1 | 9.5 | 0.3 | 17 | 0.15 | 0.046 | 45 |
| 1239219 | Soil | 0.8 | 28.8 | 18.6 | 67 | 0.1 | 29.7 | 10.6 | 198 | 2.88 | 22.0 | 2.4 | 10.8 | 11 | <0.1 | 5.1 | 0.3 | 18 | 0.07 | 0.024 | 40 |
| 1239220 | Soil | 0.9 | 30.6 | 25.3 | 73 | <0.1 | 28.9 | 12.3 | 382 | 3.15 | 26.7 | 4.7 | 10.0 | 12 | <0.1 | 5.6 | 0.3 | 19 | 0.14 | 0.054 | 31 |
| 1239221 | Soil | 0.8 | 23.3 | 15.5 | 58 | <0.1 | 22.1 | 7.4 | 194 | 2.38 | 23.2 | 3.4 | 7.8 | 10 | <0.1 | 2.7 | 0.3 | 26 | 0.12 | 0.029 | 25 |
| 1239222 | Soil | 0.8 | 16.9 | 16.0 | 49 | <0.1 | 17.0 | 6.8 | 176 | 2.10 | 17.1 | 2.9 | 5.8 | 14 | <0.1 | 1.7 | 0.2 | 30 | 0.21 | 0.018 | 19 |
| 1239223 | Soil | 0.7 | 19.2 | 13.9 | 45 | <0.1 | 20.1 | 8.4 | 191 | 2.34 | 10.2 | 1.3 | 6.2 | 10 | <0.1 | 0.8 | 0.2 | 46 | 0.11 | 0.017 | 20 |
| 1239224 | Soil | 0.7 | 22.3 | 15.4 | 49 | <0.1 | 24.0 | 8.3 | 211 | 2.65 | 13.5 | 1.5 | 9.5 | 8 | <0.1 | 0.5 | 0.2 | 31 | 0.07 | 0.019 | 30 |
| 1239225 | Soil | 1.0 | 24.3 | 12.9 | 54 | <0.1 | 25.1 | 9.3 | 169 | 2.76 | 16.7 | 2.4 | 5.5 | 8 | 0.1 | 1.4 | 0.2 | 44 | 0.10 | 0.023 | 16 |
| 1239226 | Soil | 0.8 | 21.7 | 12.6 | 52 | <0.1 | 20.7 | 7.7 | 203 | 2.28 | 10.6 | 4.8 | 6.6 | 7 | <0.1 | 1.4 | 0.2 | 31 | 0.07 | 0.020 | 22 |
| 1239227 | Soil | 1.0 | 32.7 | 14.2 | 63 | <0.1 | 25.6 | 9.3 | 330 | 2.58 | 14.5 | 11.2 | 6.2 | 12 | <0.1 | 1.2 | 0.2 | 37 | 0.15 | 0.037 | 21 |
| 1239228 | Soil | 0.8 | 35.6 | 23.9 | 75 | <0.1 | 35.0 | 14.3 | 512 | 3.12 | 14.7 | 2.2 | 12.6 | 17 | 0.1 | 2.1 | 0.2 | 26 | 0.28 | 0.047 | 33 |
| 1239229 | Soil | 0.9 | 34.9 | 22.0 | 70 | 0.1 | 32.8 | 13.4 | 534 | 3.12 | 16.9 | 4.0 | 11.7 | 19 | 0.2 | 1.9 | 0.3 | 23 | 0.26 | 0.052 | 31 |
| 1239230 | Soil | 0.6 | 35.6 | 24.7 | 70 | 0.2 | 33.7 | 16.4 | 661 | 3.33 | 21.0 | 1.3 | 13.4 | 33 | 0.1 | 2.1 | 0.3 | 21 | 0.93 | 0.081 | 33 |
| 1239231 | Soil | 0.9 | 25.1 | 16.3 | 58 | <0.1 | 24.3 | 9.5 | 447 | 2.59 | 14.0 | 87.4 | 9.2 | 14 | 0.1 | 1.4 | 0.2 | 27 | 0.18 | 0.049 | 28 |
| 1239232 | Soil | 0.8 | 32.1 | 19.2 | 69 | 0.2 | 29.6 | 12.0 | 516 | 2.85 | 18.8 | 21.9 | 9.6 | 25 | 0.2 | 1.8 | 0.2 | 26 | 0.40 | 0.058 | 27 |
| 1239233 | Soil | 1.1 | 36.3 | 19.7 | 57 | 0.2 | 31.1 | 12.9 | 593 | 2.70 | 16.4 | 3.2 | 5.5 | 43 | 0.3 | 1.4 | 0.2 | 32 | 0.73 | 0.053 | 23 |
| 1239234 | Soil | 0.8 | 16.9 | 14.0 | 49 | <0.1 | 18.6 | 8.1 | 256 | 2.30 | 13.1 | 5.0 | 7.4 | 21 | <0.1 | 1.2 | 0.2 | 26 | 0.25 | 0.027 | 25 |
| 1239235 | Soil | 1.0 | 41.1 | 18.2 | 74 | 0.2 | 32.6 | 11.8 | 512 | 2.85 | 20.5 | 3.8 | 9.8 | 21 | 0.2 | 1.9 | 0.2 | 27 | 0.57 | 0.070 | 26 |
| 1239236 | Soil | 1.0 | 30.2 | 18.9 | 63 | <0.1 | 28.2 | 10.8 | 456 | 2.70 | 15.8 | 1.6 | 7.9 | 20 | 0.1 | 1.7 | 0.2 | 35 | 0.32 | 0.037 | 24 |
| 1239237 | Soil | 1.1 | 36.2 | 28.0 | 82 | 0.2 | 37.9 | 15.0 | 572 | 3.28 | 26.7 | 234.7 | 13.2 | 31 | 0.3 | 3.4 | 0.3 | 25 | 0.57 | 0.057 | 34 |
| 1239238 | Soil | 0.8 | 33.4 | 21.6 | 68 | 0.1 | 29.5 | 12.0 | 515 | 2.82 | 21.1 | 3.3 | 9.7 | 22 | 0.2 | 2.4 | 0.2 | 27 | 0.41 | 0.058 | 29 |
| 1239239 | Soil | 1.0 | 34.2 | 21.4 | 71 | 0.2 | 32.4 | 13.6 | 580 | 2.95 | 19.9 | 6.0 | 9.8 | 25 | 0.2 | 2.2 | 0.2 | 31 | 0.54 | 0.051 | 28 |
| 1239240 | Soil | 0.7 | 33.8 | 25.7 | 80 | 0.2 | 33.9 | 14.5 | 552 | 3.29 | 24.5 | 2.0 | 11.9 | 50 | 0.2 | 3.2 | 0.3 | 35 | 1.57 | 0.067 | 31 |
| 1239241 | Soil | 0.8 | 19.6 | 13.1 | 65 | <0.1 | 22.6 | 8.1 | 343 | 2.36 | 16.4 | 4.9 | 5.5 | 17 | 0.2 | 1.3 | 0.2 | 38 | 0.27 | 0.061 | 16 |
| 1239242 | Soil | 0.7 | 19.6 | 11.1 | 54 | 0.2 | 19.7 | 6.9 | 213 | 1.93 | 10.7 | 3.0 | 3.8 | 19 | <0.1 | 0.8 | 0.2 | 36 | 0.38 | 0.054 | 14 |
| 1239243 | Soil | 0.7 | 23.9 | 12.1 | 62 | 0.2 | 23.8 | 10.3 | 607 | 2.35 | 12.9 | 9.7 | 3.4 | 25 | 0.2 | 0.8 | 0.2 | 45 | 0.47 | 0.063 | 14 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239214 | Soil | 22 | 0.34 | 280 | 0.009 | 1 | 1.09 | 0.008 | 0.06 | 0.6 | 0.06 | 2.9 | <0.1 | 0.07 | 3 | <0.5 | 3 | <0.2 |
| 1239215 | Soil | 17 | 0.25 | 202 | 0.013 | <1 | 0.83 | 0.006 | 0.06 | 0.6 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239216 | Soil | 18 | 0.31 | 143 | 0.010 | <1 | 1.00 | 0.005 | 0.05 | 0.3 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239217 | Soil | 20 | 0.39 | 145 | 0.006 | <1 | 1.22 | 0.003 | 0.06 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239218 | Soil | 16 | 0.29 | 120 | 0.005 | <1 | 0.87 | 0.003 | 0.07 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239219 | Soil | 17 | 0.26 | 86 | 0.004 | <1 | 0.92 | 0.003 | 0.07 | 0.2 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239220 | Soil | 19 | 0.38 | 76 | 0.006 | 1 | 1.08 | 0.003 | 0.07 | 0.3 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239221 | Soil | 20 | 0.36 | 93 | 0.013 | 1 | 0.97 | 0.006 | 0.05 | 0.4 | <0.01 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239222 | Soil | 19 | 0.29 | 136 | 0.011 | 1 | 0.95 | 0.004 | 0.05 | 0.4 | <0.01 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239223 | Soil | 25 | 0.41 | 170 | 0.024 | <1 | 1.44 | 0.005 | 0.03 | 0.2 | 0.01 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239224 | Soil | 20 | 0.39 | 112 | 0.011 | <1 | 1.29 | 0.003 | 0.04 | 0.2 | <0.01 | 1.6 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239225 | Soil | 30 | 0.43 | 181 | 0.018 | 1 | 1.60 | 0.004 | 0.04 | 0.2 | 0.01 | 2.4 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239226 | Soil | 19 | 0.29 | 163 | 0.016 | 1 | 0.96 | 0.004 | 0.04 | 0.2 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239227 | Soil | 26 | 0.38 | 368 | 0.027 | 1 | 1.12 | 0.006 | 0.04 | 0.2 | 0.05 | 4.4 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239228 | Soil | 20 | 0.30 | 207 | 0.013 | 2 | 1.04 | 0.007 | 0.10 | 0.2 | 0.03 | 3.6 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239229 | Soil | 19 | 0.33 | 175 | 0.012 | 2 | 1.03 | 0.008 | 0.10 | 0.2 | 0.03 | 3.3 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1239230 | Soil | 18 | 0.32 | 152 | 0.010 | 2 | 0.92 | 0.011 | 0.15 | 0.2 | 0.02 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239231 | Soil | 19 | 0.31 | 141 | 0.015 | 1 | 0.91 | 0.005 | 0.08 | 0.3 | 0.01 | 2.5 | <0.1 | 0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239232 | Soil | 18 | 0.37 | 171 | 0.015 | 2 | 0.98 | 0.008 | 0.07 | 0.3 | 0.04 | 2.7 | <0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1239233 | Soil | 21 | 0.33 | 288 | 0.011 | 1 | 1.16 | 0.007 | 0.07 | 0.4 | 0.02 | 3.2 | <0.1 | 0.11 | 4 | <0.5 | 1 | <0.2 |
| 1239234 | Soil | 17 | 0.30 | 155 | 0.009 | 2 | 0.94 | 0.005 | 0.05 | 0.2 | <0.01 | 1.8 | <0.1 | 0.08 | 3 | <0.5 | 1 | <0.2 |
| 1239235 | Soil | 19 | 0.52 | 219 | 0.020 | 2 | 0.93 | 0.008 | 0.09 | 0.3 | 0.04 | 3.1 | <0.1 | 0.07 | 3 | <0.5 | <1 | <0.2 |
| 1239236 | Soil | 22 | 0.37 | 204 | 0.023 | 1 | 1.11 | 0.007 | 0.07 | 0.3 | 0.03 | 3.1 | <0.1 | 0.07 | 3 | <0.5 | 1 | <0.2 |
| 1239237 | Soil | 23 | 0.38 | 144 | 0.013 | 3 | 1.05 | 0.008 | 0.16 | 0.3 | 0.03 | 3.3 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239238 | Soil | 19 | 0.33 | 146 | 0.017 | 2 | 0.87 | 0.006 | 0.09 | 0.3 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239239 | Soil | 20 | 0.41 | 202 | 0.020 | 2 | 1.10 | 0.008 | 0.10 | 0.3 | 0.03 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239240 | Soil | 31 | 0.58 | 224 | 0.030 | 2 | 1.27 | 0.023 | 0.18 | 0.3 | 0.03 | 4.4 | 0.1 | 0.06 | 4 | <0.5 | <1 | <0.2 |
| 1239241 | Soil | 21 | 0.35 | 182 | 0.029 | 2 | 0.86 | 0.006 | 0.05 | 0.6 | 0.02 | 2.8 | <0.1 | 0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239242 | Soil | 19 | 0.33 | 309 | 0.021 | <1 | 0.89 | 0.007 | 0.04 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239243 | Soil | 24 | 0.42 | 384 | 0.023 | 1 | 1.12 | 0.009 | 0.04 | 0.3 | 0.04 | 3.3 | <0.1 | 0.09 | 3 | 0.6 | <1 | <0.2 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239244 | Soil | 0.8 | 23.4 | 15.1 | 51 | 0.1 | 22.7 | 9.3 | 370 | 2.32 | 13.5 | 2.0 | 7.4 | 21 | 0.2 | 1.2 | 0.2 | 28 | 0.33 | 0.055 | 23 |
| 1239245 | Soil | 0.9 | 15.6 | 10.4 | 60 | <0.1 | 20.8 | 9.4 | 443 | 2.26 | 14.1 | 2.8 | 4.1 | 18 | 0.1 | 0.8 | 0.1 | 36 | 0.28 | 0.066 | 13 |
| 1239246 | Soil | 0.9 | 30.4 | 40.8 | 103 | 0.4 | 26.9 | 10.3 | 474 | 2.49 | 20.5 | 9.0 | 6.7 | 22 | 0.5 | 1.7 | 0.2 | 30 | 0.37 | 0.046 | 21 |
| 1239247 | Soil | 0.8 | 25.9 | 43.6 | 107 | 0.3 | 25.8 | 8.8 | 357 | 2.30 | 24.2 | 4.7 | 6.3 | 17 | 0.4 | 1.5 | 0.2 | 28 | 0.26 | 0.065 | 19 |
| 1239248 | Soil | 0.7 | 33.1 | 45.6 | 90 | 0.3 | 28.9 | 11.1 | 507 | 2.63 | 28.0 | 7.2 | 8.8 | 19 | 0.4 | 2.9 | 0.2 | 26 | 0.31 | 0.046 | 25 |
| 1239249 | Soil | 0.7 | 28.6 | 34.8 | 80 | 0.2 | 27.5 | 9.8 | 420 | 2.40 | 20.9 | 2.2 | 7.7 | 20 | 0.3 | 2.2 | 0.2 | 23 | 0.34 | 0.050 | 23 |
| 1239250 | Soil | 0.7 | 35.4 | 29.1 | 80 | 0.2 | 31.6 | 12.6 | 506 | 2.90 | 17.1 | 2.4 | 11.5 | 32 | 0.4 | 2.4 | 0.2 | 22 | 1.49 | 0.051 | 29 |
| 1239303 | Soil | 0.9 | 17.9 | 17.8 | 50 | <0.1 | 15.2 | 5.5 | 122 | 2.42 | 7.6 | 0.7 | 7.4 | 5 | <0.1 | 0.5 | 0.2 | 27 | 0.03 | 0.038 | 39 |
| 1239304 | Soil | 2.4 | 27.8 | 22.9 | 61 | <0.1 | 19.8 | 7.0 | 181 | 2.98 | 9.1 | 2.0 | 11.3 | 9 | <0.1 | 0.6 | 0.3 | 33 | 0.06 | 0.024 | 34 |
| 1239305 | Soil | 1.2 | 29.5 | 15.9 | 63 | <0.1 | 23.1 | 9.1 | 228 | 2.83 | 11.2 | 8.2 | 8.8 | 8 | <0.1 | 1.5 | 0.2 | 41 | 0.07 | 0.024 | 24 |
| 1239306 | Soil | 0.9 | 38.5 | 19.2 | 75 | <0.1 | 32.0 | 13.1 | 265 | 3.40 | 9.0 | 4.1 | 14.2 | 8 | <0.1 | 1.0 | 0.3 | 27 | 0.04 | 0.023 | 53 |
| 1239307 | Soil | 1.0 | 26.6 | 14.9 | 53 | 0.1 | 21.6 | 8.8 | 182 | 2.88 | 7.1 | 63.2 | 14.5 | 8 | <0.1 | 1.7 | 0.3 | 24 | 0.03 | 0.026 | 50 |
| 1239308 | Soil | 1.0 | 29.4 | 16.3 | 54 | <0.1 | 22.6 | 9.1 | 220 | 2.77 | 7.8 | 8.2 | 11.8 | 8 | <0.1 | 1.5 | 0.2 | 24 | 0.04 | 0.030 | 46 |
| 1239309 | Soil | 0.9 | 29.5 | 17.8 | 53 | 0.1 | 27.9 | 10.0 | 262 | 2.63 | 8.2 | 2.3 | 8.6 | 12 | <0.1 | 1.5 | 0.2 | 23 | 0.08 | 0.034 | 47 |
| 1239310 | Soil | 0.8 | 23.3 | 13.8 | 59 | 0.1 | 21.7 | 9.8 | 337 | 2.32 | 9.4 | 3.9 | 5.8 | 14 | <0.1 | 0.9 | 0.2 | 28 | 0.16 | 0.044 | 25 |
| 1239311 | Soil | 0.8 | 28.4 | 16.3 | 54 | 0.1 | 24.2 | 10.5 | 337 | 2.57 | 9.2 | 2.5 | 5.3 | 15 | <0.1 | 0.9 | 0.2 | 30 | 0.16 | 0.043 | 32 |
| 1239312 | Soil | 0.9 | 32.0 | 15.7 | 54 | 0.1 | 26.3 | 9.9 | 268 | 2.89 | 9.9 | 0.9 | 10.7 | 10 | <0.1 | 1.5 | 0.2 | 25 | 0.09 | 0.034 | 43 |
| 1239313 | Soil | 0.9 | 30.8 | 14.0 | 54 | <0.1 | 25.4 | 8.8 | 259 | 2.63 | 8.9 | 2.4 | 10.4 | 10 | <0.1 | 1.2 | 0.2 | 26 | 0.10 | 0.038 | 39 |
| 1239314 | Soil | 0.8 | 33.7 | 16.0 | 63 | 0.1 | 34.2 | 12.1 | 378 | 2.92 | 10.2 | 17.2 | 11.7 | 16 | <0.1 | 1.2 | 0.2 | 26 | 0.15 | 0.047 | 46 |
| 1239315 | Soil | 0.8 | 29.3 | 11.3 | 53 | <0.1 | 24.3 | 8.7 | 228 | 2.52 | 7.6 | 3.1 | 11.1 | 10 | <0.1 | 0.8 | 0.2 | 24 | 0.09 | 0.034 | 45 |
| 1239316 | Soil | 0.9 | 23.3 | 12.2 | 54 | <0.1 | 21.8 | 9.5 | 273 | 2.41 | 8.5 | 0.9 | 9.3 | 9 | <0.1 | 1.0 | 0.2 | 29 | 0.09 | 0.031 | 31 |
| 1239317 | Soil | 0.9 | 24.2 | 14.4 | 52 | <0.1 | 26.3 | 9.4 | 292 | 2.57 | 8.6 | 3.5 | 9.6 | 11 | <0.1 | 0.8 | 0.2 | 29 | 0.12 | 0.028 | 36 |
| 1239318 | Soil | 0.8 | 26.0 | 23.1 | 64 | <0.1 | 26.0 | 11.2 | 365 | 2.70 | 8.4 | <0.5 | 9.6 | 14 | 0.1 | 0.7 | 0.2 | 28 | 0.23 | 0.044 | 35 |
| 1239319 | Soil | 0.7 | 30.1 | 37.2 | 74 | 0.2 | 29.0 | 14.0 | 461 | 2.88 | 10.5 | 3.9 | 8.3 | 27 | 0.1 | 0.7 | 0.2 | 30 | 0.40 | 0.052 | 36 |
| 1239320 | Soil | 0.9 | 36.9 | 24.6 | 79 | 0.2 | 37.8 | 15.2 | 425 | 3.20 | 14.7 | 2.4 | 18.2 | 16 | 0.1 | 1.4 | 0.2 | 18 | 0.25 | 0.057 | 52 |
| 1239321 | Soil | 0.7 | 21.4 | 23.5 | 60 | 0.1 | 24.0 | 10.4 | 453 | 2.40 | 11.3 | 53.0 | 6.9 | 25 | 0.1 | 0.7 | 0.2 | 26 | 0.44 | 0.048 | 30 |
| 1239322 | Soil | 1.3 | 32.1 | 23.8 | 70 | 0.1 | 29.4 | 12.1 | 481 | 2.80 | 12.2 | 1.7 | 8.1 | 28 | 0.1 | 0.7 | 0.3 | 24 | 0.44 | 0.055 | 33 |
| 1239323 | Soil | 0.7 | 27.4 | 16.8 | 64 | 0.2 | 27.5 | 10.8 | 535 | 2.40 | 10.2 | 55.4 | 5.1 | 32 | 0.2 | 0.8 | 0.2 | 26 | 0.58 | 0.061 | 26 |
| 1239324 | Soil | 0.8 | 18.7 | 9.6 | 55 | 0.1 | 22.9 | 7.1 | 346 | 1.71 | 14.5 | 29.8 | 3.7 | 13 | 0.2 | 0.9 | 0.1 | 28 | 0.20 | 0.061 | 12 |
| 1239325 | Soil | 0.6 | 32.6 | 20.8 | 61 | 0.2 | 31.6 | 11.9 | 536 | 2.73 | 15.1 | 2.4 | 11.8 | 23 | <0.1 | 1.7 | 0.2 | 21 | 0.38 | 0.046 | 30 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239244 | Soil | 18 | 0.32 | 183 | 0.017 | 1 | 0.89 | 0.007 | 0.06 | 0.3 | 0.03 | 2.4 | <0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1239245 | Soil | 20 | 0.37 | 244 | 0.027 | 1 | 0.82 | 0.008 | 0.04 | 0.2 | 0.02 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239246 | Soil | 19 | 0.31 | 224 | 0.018 | <1 | 0.92 | 0.007 | 0.07 | 0.3 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239247 | Soil | 17 | 0.32 | 150 | 0.021 | 1 | 0.75 | 0.007 | 0.07 | 0.5 | 0.02 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239248 | Soil | 19 | 0.33 | 190 | 0.017 | 2 | 0.95 | 0.008 | 0.11 | 0.4 | 0.03 | 3.1 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239249 | Soil | 17 | 0.30 | 156 | 0.014 | 1 | 0.79 | 0.008 | 0.09 | 0.2 | 0.04 | 2.4 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239250 | Soil | 17 | 0.35 | 79 | 0.011 | 2 | 0.78 | 0.007 | 0.11 | 0.2 | 0.03 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239303 | Soil | 18 | 0.38 | 65 | 0.010 | <1 | 1.05 | 0.003 | 0.04 | 0.2 | 0.02 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239304 | Soil | 20 | 0.39 | 114 | 0.013 | <1 | 1.18 | 0.009 | 0.05 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239305 | Soil | 26 | 0.42 | 135 | 0.024 | <1 | 1.26 | 0.005 | 0.03 | 0.2 | 0.02 | 3.0 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239306 | Soil | 19 | 0.31 | 120 | 0.012 | <1 | 0.93 | 0.004 | 0.04 | 0.1 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239307 | Soil | 15 | 0.23 | 88 | 0.008 | <1 | 0.81 | 0.005 | 0.04 | 0.2 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239308 | Soil | 17 | 0.24 | 137 | 0.007 | <1 | 0.86 | 0.004 | 0.03 | 0.2 | 0.01 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239309 | Soil | 16 | 0.23 | 157 | 0.008 | <1 | 0.74 | 0.004 | 0.04 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239310 | Soil | 17 | 0.30 | 152 | 0.013 | <1 | 0.78 | 0.005 | 0.03 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239311 | Soil | 19 | 0.29 | 268 | 0.007 | <1 | 0.93 | 0.005 | 0.03 | 0.2 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239312 | Soil | 18 | 0.34 | 210 | 0.008 | <1 | 0.87 | 0.004 | 0.03 | 0.3 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239313 | Soil | 18 | 0.32 | 191 | 0.010 | <1 | 0.89 | 0.004 | 0.03 | 0.3 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239314 | Soil | 18 | 0.25 | 146 | 0.011 | <1 | 0.69 | 0.005 | 0.04 | 0.2 | 0.02 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239315 | Soil | 17 | 0.27 | 140 | 0.009 | <1 | 0.79 | 0.004 | 0.03 | 0.2 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239316 | Soil | 19 | 0.32 | 129 | 0.015 | <1 | 0.96 | 0.005 | 0.03 | 0.3 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239317 | Soil | 21 | 0.30 | 185 | 0.012 | <1 | 0.97 | 0.005 | 0.03 | 0.3 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239318 | Soil | 24 | 0.39 | 199 | 0.015 | <1 | 1.00 | 0.005 | 0.04 | 0.4 | 0.02 | 2.2 | <0.1 | 0.06 | 3 | <0.5 | 2 | <0.2 |
| 1239319 | Soil | 23 | 0.36 | 220 | 0.010 | <1 | 1.08 | 0.006 | 0.04 | 0.3 | 0.05 | 2.7 | <0.1 | 0.06 | 3 | <0.5 | 1 | <0.2 |
| 1239320 | Soil | 18 | 0.37 | 123 | 0.006 | <1 | 0.93 | 0.004 | 0.05 | 0.2 | 0.01 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239321 | Soil | 18 | 0.32 | 208 | 0.010 | <1 | 0.86 | 0.005 | 0.03 | 0.6 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239322 | Soil | 19 | 0.30 | 200 | 0.007 | <1 | 0.89 | 0.005 | 0.05 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239323 | Soil | 18 | 0.35 | 235 | 0.010 | <1 | 0.88 | 0.005 | 0.04 | 0.8 | 0.04 | 2.1 | <0.1 | 0.14 | 3 | <0.5 | 2 | <0.2 |
| 1239324 | Soil | 15 | 0.29 | 112 | 0.024 | <1 | 0.55 | 0.004 | 0.02 | 0.6 | <0.01 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239325 | Soil | 19 | 0.27 | 107 | 0.010 | <1 | 0.77 | 0.005 | 0.06 | 0.1 | 0.03 | 2.5 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239326 | Soil | 0.7 | 29.3 | 40.6 | 93 | 0.2 | 44.2 | 16.8 | 309 | 3.90 | 9.6 | 2.9 | 22.7 | 12 | 0.3 | 0.8 | 0.3 | 15 | 0.14 | 0.043 | 35 |
| 1239327 | Soil | 0.7 | 23.5 | 21.8 | 58 | 0.1 | 29.7 | 11.3 | 327 | 2.53 | 10.2 | 1.4 | 13.2 | 20 | 0.1 | 0.8 | 0.2 | 16 | 0.29 | 0.039 | 33 |
| 1239328 | Soil | 0.6 | 28.2 | 18.4 | 57 | 0.1 | 28.2 | 10.8 | 352 | 2.55 | 12.2 | 1.0 | 9.5 | 27 | 0.2 | 1.1 | 0.2 | 24 | 0.46 | 0.044 | 28 |
| 1239329 | Soil | 0.6 | 21.5 | 15.7 | 48 | <0.1 | 23.2 | 9.0 | 330 | 2.17 | 9.8 | 5.6 | 8.0 | 34 | 0.1 | 0.7 | 0.2 | 23 | 0.59 | 0.036 | 22 |
| 1239330 | Soil | 0.6 | 29.2 | 17.4 | 59 | 0.1 | 30.0 | 11.6 | 415 | 2.46 | 9.8 | 1.2 | 9.5 | 32 | 0.2 | 0.7 | 0.2 | 21 | 0.57 | 0.049 | 26 |
| 1239331 | Soil | 0.6 | 16.5 | 12.6 | 43 | 0.2 | 17.0 | 7.3 | 308 | 1.79 | 8.1 | 60.1 | 5.1 | 53 | 0.1 | 0.8 | 0.2 | 21 | 0.85 | 0.033 | 16 |
| 1239332 | Soil | 0.7 | 19.8 | 16.3 | 48 | 0.1 | 20.7 | 9.8 | 429 | 2.26 | 15.4 | 1.7 | 4.0 | 57 | 0.2 | 0.7 | 0.2 | 27 | 0.94 | 0.036 | 17 |
| 1239333 | Soil | 0.7 | 22.7 | 16.7 | 50 | <0.1 | 21.7 | 9.3 | 322 | 2.08 | 15.4 | 2.3 | 5.6 | 43 | 0.2 | 1.0 | 0.2 | 20 | 0.81 | 0.035 | 18 |
| 1239334 | Soil | 0.7 | 30.7 | 18.1 | 48 | 0.1 | 23.7 | 9.9 | 373 | 2.27 | 15.3 | 1.6 | 5.7 | 33 | 0.2 | 1.1 | 0.2 | 22 | 0.63 | 0.033 | 17 |
| 1239335 | Soil | 0.7 | 19.7 | 13.6 | 48 | 0.1 | 21.3 | 9.4 | 396 | 2.19 | 13.5 | 33.1 | 5.6 | 36 | 0.1 | 0.9 | 0.2 | 23 | 0.66 | 0.036 | 17 |
| 1239336 | Soil | 0.8 | 33.8 | 17.8 | 50 | 0.2 | 30.8 | 13.9 | 423 | 2.63 | 15.1 | 61.8 | 8.6 | 24 | 0.1 | 1.4 | 0.2 | 19 | 0.72 | 0.032 | 22 |
| 1239337 | Soil | 0.7 | 30.4 | 15.5 | 57 | 0.2 | 28.6 | 11.2 | 414 | 2.40 | 14.6 | 3.1 | 6.0 | 29 | 0.2 | 1.1 | 0.2 | 25 | 0.61 | 0.047 | 18 |
| 1239338 | Soil | 1.0 | 23.3 | 10.2 | 50 | <0.1 | 22.8 | 7.4 | 357 | 1.71 | 16.3 | 1.5 | 4.5 | 10 | 0.3 | 1.1 | 0.1 | 27 | 0.14 | 0.050 | 11 |
| 1239339 | Soil | 0.8 | 33.4 | 24.1 | 82 | 0.2 | 29.8 | 11.3 | 424 | 2.62 | 30.7 | 8.3 | 10.1 | 37 | 0.4 | 2.3 | 0.2 | 26 | 1.09 | 0.056 | 26 |
| 1239340 | Soil | 0.6 | 32.9 | 29.5 | 67 | 0.1 | 31.1 | 13.0 | 501 | 2.71 | 63.3 | 10.9 | 10.8 | 18 | 0.2 | 2.5 | 0.3 | 21 | 0.34 | 0.042 | 25 |
| 1239341 | Soil | 0.4 | 45.4 | 21.6 | 73 | 0.2 | 33.8 | 13.9 | 404 | 3.16 | 24.5 | 2.2 | 12.1 | 10 | 0.2 | 1.3 | 0.3 | 21 | 0.15 | 0.029 | 26 |
| 1239342 | Soil | 0.8 | 21.1 | 10.3 | 48 | <0.1 | 21.9 | 7.5 | 205 | 2.10 | 7.1 | 3.7 | 1.3 | 11 | <0.1 | 0.5 | 0.1 | 41 | 0.13 | 0.062 | 20 |
| 1239343 | Soil | 0.9 | 23.3 | 14.2 | 56 | <0.1 | 20.6 | 8.2 | 272 | 2.06 | 24.8 | 2.7 | 1.7 | 10 | 0.1 | 2.5 | 0.1 | 36 | 0.13 | 0.051 | 22 |
| 1239344 | Soil | 0.7 | 20.0 | 12.1 | 47 | <0.1 | 25.4 | 7.7 | 230 | 2.11 | 14.8 | 5.6 | 4.2 | 8 | <0.1 | 1.4 | 0.2 | 36 | 0.08 | 0.035 | 22 |
| 1239345 | Soil | 0.9 | 25.1 | 26.3 | 43 | <0.1 | 25.2 | 10.0 | 261 | 2.33 | 6.3 | 15.9 | 1.6 | 9 | 0.1 | 0.6 | 0.2 | 38 | 0.08 | 0.035 | 40 |
| 1239346 | Soil | 1.0 | 22.7 | 13.8 | 50 | <0.1 | 23.2 | 8.8 | 321 | 2.42 | 8.1 | 3.4 | 2.1 | 11 | <0.1 | 0.6 | 0.2 | 41 | 0.11 | 0.054 | 22 |
| 1239347 | Soil | 1.0 | 18.2 | 16.0 | 39 | <0.1 | 29.5 | 7.2 | 214 | 2.14 | 7.0 | 7.4 | 0.6 | 8 | <0.1 | 0.4 | 0.2 | 44 | 0.08 | 0.047 | 16 |
| 1239348 | Soil | 0.8 | 19.4 | 13.6 | 39 | <0.1 | 27.0 | 6.9 | 179 | 2.25 | 7.2 | 4.0 | 1.1 | 11 | <0.1 | 0.4 | 0.2 | 44 | 0.10 | 0.045 | 19 |
| 1239349 | Soil | 0.8 | 24.8 | 11.7 | 47 | <0.1 | 23.4 | 8.8 | 261 | 2.25 | 7.3 | 3.7 | 2.6 | 11 | 0.1 | 0.7 | 0.1 | 40 | 0.12 | 0.045 | 27 |
| 1239350 | Soil | 0.8 | 22.9 | 10.0 | 46 | <0.1 | 20.0 | 7.4 | 238 | 2.03 | 7.6 | 2.5 | 3.3 | 12 | <0.1 | 0.7 | 0.1 | 36 | 0.15 | 0.044 | 20 |
| 1239351 | Soil | 0.9 | 20.1 | 11.2 | 43 | <0.1 | 19.1 | 6.2 | 162 | 2.10 | 7.4 | 2.7 | 1.1 | 9 | <0.1 | 0.7 | 0.2 | 36 | 0.09 | 0.047 | 16 |
| 1239352 | Soil | 0.7 | 20.3 | 11.2 | 46 | <0.1 | 21.0 | 7.6 | 248 | 2.30 | 6.7 | 2.8 | 3.5 | 9 | <0.1 | 0.7 | 0.2 | 36 | 0.09 | 0.046 | 23 |
| 1239353 | Soil | 0.9 | 24.4 | 12.4 | 50 | <0.1 | 23.4 | 9.0 | 280 | 2.51 | 7.3 | 4.2 | 5.7 | 13 | <0.1 | 0.7 | 0.2 | 44 | 0.12 | 0.033 | 22 |
| 1239354 | Soil | 0.9 | 18.3 | 11.9 | 42 | <0.1 | 17.2 | 7.2 | 253 | 2.25 | 7.5 | 1.9 | 5.7 | 8 | <0.1 | 2.4 | 0.2 | 37 | 0.06 | 0.023 | 21 |
| 1239355 | Soil | 0.8 | 31.3 | 16.3 | 53 | <0.1 | 26.6 | 11.0 | 326 | 2.77 | 6.4 | 2.0 | 9.2 | 8 | <0.1 | 1.2 | 0.2 | 29 | 0.05 | 0.022 | 34 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239326 | Soil | | 17 | 0.37 | 95 | 0.005 | <1 | 0.96 | 0.003 | 0.06 | 0.1 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239327 | Soil | | 14 | 0.25 | 127 | 0.007 | 1 | 0.67 | 0.004 | 0.11 | 0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239328 | Soil | | 18 | 0.32 | 172 | 0.009 | 1 | 0.82 | 0.005 | 0.05 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239329 | Soil | | 14 | 0.29 | 191 | 0.011 | 1 | 0.69 | 0.005 | 0.06 | 0.4 | 0.03 | 1.5 | <0.1 | 0.06 | 2 | <0.5 | 1 | <0.2 |
| 1239330 | Soil | | 14 | 0.30 | 185 | 0.010 | <1 | 0.67 | 0.004 | 0.05 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239331 | Soil | | 13 | 0.26 | 168 | 0.008 | <1 | 0.67 | 0.004 | 0.04 | 0.3 | 0.03 | 1.6 | <0.1 | 0.11 | 2 | <0.5 | 2 | <0.2 |
| 1239332 | Soil | | 16 | 0.32 | 213 | 0.009 | <1 | 0.82 | 0.006 | 0.05 | 0.3 | 0.02 | 2.1 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |
| 1239333 | Soil | | 14 | 0.31 | 135 | 0.009 | 1 | 0.74 | 0.005 | 0.04 | 0.3 | 0.02 | 1.6 | <0.1 | 0.09 | 2 | <0.5 | <1 | <0.2 |
| 1239334 | Soil | | 16 | 0.29 | 165 | 0.009 | <1 | 0.76 | 0.006 | 0.04 | 0.3 | 0.02 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1239335 | Soil | | 15 | 0.32 | 146 | 0.012 | <1 | 0.75 | 0.006 | 0.04 | 0.6 | 0.02 | 1.7 | <0.1 | 0.13 | 2 | <0.5 | <1 | <0.2 |
| 1239336 | Soil | | 14 | 0.25 | 88 | 0.007 | <1 | 0.67 | 0.004 | 0.05 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1239337 | Soil | | 17 | 0.37 | 171 | 0.014 | 1 | 0.82 | 0.005 | 0.04 | 0.3 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239338 | Soil | | 15 | 0.26 | 85 | 0.026 | <1 | 0.59 | 0.003 | 0.03 | 0.5 | 0.02 | 1.8 | <0.1 | <0.05 | 2 | 0.5 | <1 | <0.2 |
| 1239339 | Soil | | 20 | 0.45 | 109 | 0.021 | 1 | 0.94 | 0.009 | 0.12 | 0.5 | 0.03 | 3.0 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239340 | Soil | | 18 | 0.28 | 119 | 0.013 | 1 | 0.84 | 0.008 | 0.12 | 0.3 | 0.03 | 3.1 | 0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239341 | Soil | | 20 | 0.46 | 117 | 0.008 | <1 | 1.21 | 0.004 | 0.05 | 0.3 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239342 | Soil | | 44 | 0.40 | 110 | 0.019 | <1 | 1.08 | 0.004 | 0.04 | 0.2 | 0.03 | 1.7 | <0.1 | 0.09 | 3 | <0.5 | <1 | <0.2 |
| 1239343 | Soil | | 31 | 0.39 | 110 | 0.023 | <1 | 1.06 | 0.005 | 0.05 | 0.7 | 0.03 | 1.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239344 | Soil | | 52 | 0.43 | 100 | 0.019 | <1 | 1.01 | 0.003 | 0.04 | 0.4 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239345 | Soil | | 42 | 0.38 | 128 | 0.011 | <1 | 1.09 | 0.003 | 0.05 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 19 | <0.2 |
| 1239346 | Soil | | 42 | 0.43 | 211 | 0.015 | <1 | 1.08 | 0.005 | 0.04 | 0.2 | 0.04 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239347 | Soil | | 86 | 0.50 | 79 | 0.009 | <1 | 1.03 | 0.003 | 0.03 | 0.3 | 0.03 | 1.1 | <0.1 | <0.05 | 4 | <0.5 | 5 | <0.2 |
| 1239348 | Soil | | 82 | 0.49 | 112 | 0.010 | <1 | 1.13 | 0.004 | 0.04 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239349 | Soil | | 34 | 0.40 | 218 | 0.021 | <1 | 1.05 | 0.004 | 0.04 | 0.2 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239350 | Soil | | 27 | 0.38 | 183 | 0.025 | <1 | 1.00 | 0.004 | 0.04 | 0.2 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239351 | Soil | | 26 | 0.31 | 134 | 0.016 | <1 | 1.03 | 0.004 | 0.04 | 0.2 | 0.04 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239352 | Soil | | 29 | 0.33 | 138 | 0.016 | <1 | 1.02 | 0.006 | 0.05 | 0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239353 | Soil | | 31 | 0.46 | 230 | 0.031 | <1 | 1.30 | 0.009 | 0.06 | 0.2 | 0.04 | 3.0 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239354 | Soil | | 23 | 0.35 | 166 | 0.026 | <1 | 1.18 | 0.005 | 0.06 | 0.2 | 0.02 | 2.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239355 | Soil | | 24 | 0.35 | 138 | 0.019 | <1 | 1.13 | 0.006 | 0.09 | 0.1 | 0.04 | 2.6 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239356 | Soil | 1.1 | 22.3 | 14.2 | 52 | 0.1 | 24.8 | 11.3 | 301 | 2.75 | 10.0 | 4.3 | 5.9 | 8 | <0.1 | 0.7 | 0.2 | 49 | 0.07 | 0.030 | 15 |
| 1239357 | Soil | 0.9 | 26.5 | 15.5 | 52 | <0.1 | 27.8 | 13.1 | 393 | 2.68 | 11.2 | 4.6 | 6.8 | 9 | <0.1 | 5.3 | 0.2 | 38 | 0.06 | 0.021 | 27 |
| 1239358 | Soil | 1.1 | 11.8 | 11.7 | 45 | <0.1 | 15.8 | 6.2 | 161 | 2.43 | 12.7 | 3.4 | 3.9 | 6 | 0.2 | 1.5 | 0.2 | 52 | 0.04 | 0.032 | 13 |
| 1239359 | Soil | 1.1 | 15.2 | 14.0 | 55 | <0.1 | 24.2 | 9.3 | 259 | 2.50 | 15.9 | 2.9 | 5.0 | 10 | 0.2 | 5.7 | 0.2 | 39 | 0.07 | 0.029 | 14 |
| 1239360 | Soil | 0.9 | 5.5 | 14.1 | 32 | <0.1 | 8.5 | 3.5 | 139 | 2.42 | 7.6 | 0.6 | 3.4 | 6 | <0.1 | 0.5 | 0.2 | 64 | 0.05 | 0.035 | 13 |
| 1239361 | Soil | 1.5 | 20.3 | 13.8 | 60 | <0.1 | 18.7 | 9.8 | 369 | 2.86 | 13.1 | 3.3 | 6.0 | 11 | <0.1 | 2.4 | 0.2 | 59 | 0.09 | 0.048 | 20 |
| 1239362 | Soil | 0.7 | 16.5 | 12.6 | 39 | <0.1 | 15.0 | 5.3 | 136 | 2.09 | 6.7 | 5.7 | 1.9 | 7 | <0.1 | 4.8 | 0.1 | 27 | 0.06 | 0.033 | 22 |
| 1239363 | Soil | 0.9 | 26.1 | 12.5 | 46 | <0.1 | 25.4 | 9.5 | 331 | 2.40 | 9.0 | 5.9 | 2.9 | 10 | <0.1 | 7.3 | 0.2 | 37 | 0.10 | 0.049 | 26 |
| 1239364 | Soil | 0.8 | 28.2 | 15.8 | 58 | <0.1 | 29.5 | 9.8 | 266 | 2.75 | 14.2 | 3.3 | 3.9 | 8 | 0.1 | 6.2 | 0.2 | 42 | 0.09 | 0.049 | 37 |
| 1239365 | Soil | 0.8 | 20.2 | 11.3 | 48 | <0.1 | 21.9 | 6.2 | 171 | 2.13 | 9.5 | 3.0 | 1.7 | 9 | <0.1 | 3.4 | 0.2 | 38 | 0.10 | 0.048 | 22 |
| 1239366 | Soil | 0.7 | 18.8 | 17.3 | 53 | 0.1 | 22.4 | 10.5 | 457 | 2.54 | 13.4 | 4.5 | 7.6 | 23 | <0.1 | 32.4 | 0.2 | 36 | 0.25 | 0.055 | 30 |
| 1239367 | Soil | 0.7 | 20.9 | 17.5 | 57 | <0.1 | 21.1 | 11.3 | 462 | 2.87 | 8.0 | 8.6 | 8.9 | 22 | <0.1 | 14.7 | 0.3 | 33 | 0.24 | 0.048 | 31 |
| 1239368 | Soil | 0.4 | 9.7 | 11.2 | 38 | <0.1 | 14.6 | 10.1 | 420 | 1.88 | 5.1 | 1.5 | 5.9 | 16 | <0.1 | 7.4 | 0.1 | 27 | 0.19 | 0.051 | 25 |
| 1239701 | Soil | 0.4 | 11.8 | 8.4 | 48 | <0.1 | 15.2 | 7.1 | 93 | 1.25 | 5.5 | 3.7 | 4.2 | 26 | 0.2 | 1.0 | 0.1 | 26 | 0.32 | 0.059 | 13 |
| 1239702 | Soil | 0.4 | 10.1 | 5.8 | 34 | <0.1 | 10.1 | 3.9 | 71 | 1.28 | 4.6 | 5.9 | 3.3 | 18 | 0.1 | 1.1 | <0.1 | 20 | 0.25 | 0.056 | 11 |
| 1239703 | Soil | 0.6 | 31.4 | 7.4 | 60 | <0.1 | 23.9 | 7.4 | 334 | 1.89 | 13.3 | 2.0 | 4.3 | 16 | 0.3 | 0.8 | 0.1 | 26 | 0.22 | 0.073 | 13 |
| 1239704 | Soil | 0.5 | 16.9 | 7.6 | 40 | <0.1 | 17.2 | 5.7 | 158 | 1.76 | 9.4 | 2.2 | 2.9 | 13 | <0.1 | 0.5 | 0.1 | 28 | 0.18 | 0.052 | 13 |
| 1239705 | Soil | 0.6 | 21.7 | 7.7 | 48 | <0.1 | 20.2 | 7.6 | 272 | 1.94 | 11.2 | 2.1 | 3.8 | 13 | <0.1 | 0.7 | 0.1 | 30 | 0.19 | 0.058 | 15 |
| 1239706 | Soil | 0.5 | 35.3 | 22.3 | 73 | <0.1 | 41.7 | 18.1 | 506 | 3.03 | 11.2 | 2.0 | 17.2 | 18 | <0.1 | 3.7 | 0.3 | 7 | 0.06 | 0.027 | 40 |
| 1239707 | Soil | 0.8 | 34.1 | 19.8 | 74 | <0.1 | 36.0 | 14.8 | 393 | 3.30 | 16.2 | 6.4 | 15.6 | 13 | <0.1 | 6.9 | 0.3 | 11 | 0.03 | 0.027 | 52 |

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Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239356 | Soil | 31 | 0.41 | 159 | 0.028 | <1 | 1.86 | 0.005 | 0.06 | 0.2 | 0.03 | 2.7 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239357 | Soil | 33 | 0.43 | 169 | 0.026 | <1 | 1.31 | 0.008 | 0.06 | 0.1 | 0.06 | 3.4 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239358 | Soil | 24 | 0.26 | 110 | 0.028 | <1 | 1.44 | 0.004 | 0.04 | 0.2 | 0.02 | 2.3 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239359 | Soil | 24 | 0.31 | 130 | 0.022 | 1 | 1.41 | 0.004 | 0.06 | 0.2 | 0.03 | 1.9 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239360 | Soil | 23 | 0.22 | 124 | 0.031 | <1 | 1.51 | 0.004 | 0.03 | 0.1 | 0.02 | 2.0 | 0.2 | <0.05 | 7 | <0.5 | 2 | <0.2 |
| 1239361 | Soil | 33 | 0.41 | 195 | 0.033 | 1 | 1.77 | 0.007 | 0.06 | 0.2 | 0.06 | 4.6 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1239362 | Soil | 20 | 0.23 | 66 | 0.011 | <1 | 0.98 | 0.003 | 0.04 | 0.1 | 0.07 | 1.4 | 0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239363 | Soil | 34 | 0.39 | 98 | 0.015 | <1 | 0.96 | 0.003 | 0.05 | 0.1 | 0.06 | 2.2 | 0.2 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239364 | Soil | 47 | 0.43 | 147 | 0.011 | <1 | 1.32 | 0.003 | 0.04 | 0.2 | 0.08 | 2.8 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239365 | Soil | 34 | 0.30 | 95 | 0.014 | <1 | 1.05 | 0.003 | 0.04 | 0.2 | 0.23 | 1.9 | 0.3 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239366 | Soil | 35 | 0.41 | 151 | 0.011 | 1 | 0.94 | 0.005 | 0.06 | 0.4 | 0.11 | 2.7 | 0.2 | <0.05 | 3 | <0.5 | 5 | <0.2 |
| 1239367 | Soil | 30 | 0.49 | 128 | 0.008 | <1 | 1.10 | 0.004 | 0.05 | <0.1 | 0.09 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239368 | Soil | 26 | 0.35 | 98 | 0.007 | <1 | 0.77 | 0.003 | 0.03 | 0.5 | 0.09 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239701 | Soil | 17 | 0.32 | 196 | 0.025 | 1 | 0.71 | 0.008 | 0.03 | 0.3 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239702 | Soil | 12 | 0.23 | 114 | 0.019 | 1 | 0.51 | 0.007 | 0.02 | 0.1 | 0.03 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239703 | Soil | 16 | 0.29 | 227 | 0.027 | <1 | 0.65 | 0.007 | 0.03 | 0.2 | 0.04 | 2.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239704 | Soil | 17 | 0.29 | 201 | 0.022 | <1 | 0.84 | 0.005 | 0.02 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239705 | Soil | 19 | 0.31 | 217 | 0.026 | <1 | 0.83 | 0.006 | 0.03 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239706 | Soil | 10 | 0.09 | 97 | <0.001 | <1 | 0.29 | 0.004 | 0.05 | <0.1 | 0.04 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1239707 | Soil | 13 | 0.25 | 56 | 0.002 | <1 | 0.66 | 0.004 | 0.04 | <0.1 | 0.03 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 05, 2012



# QUALITY CONTROL REPORT DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1239205 | Soil | 0.5 | 36.8 | 23.8 | 75 | 0.1 | 32.2 | 13.9 | 536 | 3.14 | 15.9 | 110.1 | 12.9 | 18 | <0.1 | 3.8 | 0.3 | 20 | 0.20 | 0.044 | 36 |
| REP 1239205 | QC | 0.7 | 38.1 | 24.2 | 78 | 0.1 | 32.6 | 14.1 | 535 | 3.24 | 16.7 | 2.5 | 12.9 | 18 | 0.1 | 3.7 | 0.3 | 20 | 0.20 | 0.044 | 37 |
| 1239217 | Soil | 0.8 | 28.6 | 18.3 | 64 | <0.1 | 27.4 | 11.7 | 301 | 2.99 | 17.8 | 1.4 | 11.8 | 16 | <0.1 | 4.2 | 0.3 | 24 | 0.21 | 0.026 | 36 |
| REP 1239217 | QC | 0.9 | 29.8 | 18.5 | 66 | 0.2 | 28.9 | 12.1 | 307 | 2.99 | 18.7 | 1134 | 11.8 | 16 | <0.1 | 4.1 | 0.3 | 26 | 0.21 | 0.026 | 37 |
| 1239241 | Soil | 0.8 | 19.6 | 13.1 | 65 | <0.1 | 22.6 | 8.1 | 343 | 2.36 | 16.4 | 4.9 | 5.5 | 17 | 0.2 | 1.3 | 0.2 | 38 | 0.27 | 0.061 | 16 |
| REP 1239241 | QC | 0.9 | 19.8 | 13.3 | 64 | <0.1 | 21.9 | 8.2 | 353 | 2.40 | 16.4 | 19.2 | 5.6 | 18 | 0.1 | 1.1 | 0.2 | 39 | 0.26 | 0.058 | 16 |
| 1239305 | Soil | 1.2 | 29.5 | 15.9 | 63 | <0.1 | 23.1 | 9.1 | 228 | 2.83 | 11.2 | 8.2 | 8.8 | 8 | <0.1 | 1.5 | 0.2 | 41 | 0.07 | 0.024 | 24 |
| REP 1239305 | QC | 1.2 | 28.5 | 15.7 | 62 | <0.1 | 21.1 | 8.8 | 226 | 2.80 | 11.4 | 2.4 | 9.0 | 8 | <0.1 | 1.4 | 0.2 | 40 | 0.06 | 0.024 | 25 |
| 1239329 | Soil | 0.6 | 21.5 | 15.7 | 48 | <0.1 | 23.2 | 9.0 | 330 | 2.17 | 9.8 | 5.6 | 8.0 | 34 | 0.1 | 0.7 | 0.2 | 23 | 0.59 | 0.036 | 22 |
| REP 1239329 | QC | 0.6 | 21.0 | 15.4 | 46 | <0.1 | 22.6 | 8.7 | 323 | 2.17 | 10.0 | 0.9 | 7.6 | 33 | <0.1 | 0.6 | 0.2 | 23 | 0.60 | 0.038 | 21 |
| 1239341 | Soil | 0.4 | 45.4 | 21.6 | 73 | 0.2 | 33.8 | 13.9 | 404 | 3.16 | 24.5 | 2.2 | 12.1 | 10 | 0.2 | 1.3 | 0.3 | 21 | 0.15 | 0.029 | 26 |
| REP 1239341 | QC | 0.6 | 46.0 | 20.8 | 73 | 0.2 | 34.3 | 13.9 | 407 | 3.24 | 25.3 | 24.0 | 11.8 | 10 | 0.2 | 1.3 | 0.2 | 21 | 0.14 | 0.030 | 26 |
| 1239348 | Soil | 0.8 | 19.4 | 13.6 | 39 | <0.1 | 27.0 | 6.9 | 179 | 2.25 | 7.2 | 4.0 | 1.1 | 11 | <0.1 | 0.4 | 0.2 | 44 | 0.10 | 0.045 | 19 |
| REP 1239348 | QC | 0.8 | 18.8 | 13.3 | 38 | <0.1 | 25.0 | 6.4 | 172 | 2.16 | 6.8 | 2.2 | 1.2 | 11 | <0.1 | 0.4 | 0.2 | 41 | 0.09 | 0.046 | 17 |
| 1239704 | Soil | 0.5 | 16.9 | 7.6 | 40 | <0.1 | 17.2 | 5.7 | 158 | 1.76 | 9.4 | 2.2 | 2.9 | 13 | <0.1 | 0.5 | 0.1 | 28 | 0.18 | 0.052 | 13 |
| REP 1239704 | QC | 0.5 | 16.9 | 7.3 | 40 | <0.1 | 16.6 | 5.6 | 162 | 1.72 | 9.4 | 1.9 | 2.9 | 12 | <0.1 | 0.5 | 0.1 | 28 | 0.18 | 0.051 | 13 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.3 | 115.6 | 128.9 | 323 | 2.1 | 43.1 | 8.2 | 606 | 2.43 | 25.8 | 137.0 | 6.7 | 70 | 2.4 | 5.7 | 6.6 | 45 | 0.77 | 0.085 | 13 |
| STD DS9 | Standard | 14.7 | 112.4 | 124.9 | 310 | 2.0 | 41.6 | 7.9 | 583 | 2.40 | 25.4 | 114.3 | 6.6 | 72 | 2.4 | 5.6 | 6.2 | 49 | 0.75 | 0.090 | 14 |
| STD DS9 | Standard | 13.3 | 110.2 | 120.4 | 315 | 1.8 | 41.3 | 7.4 | 567 | 2.29 | 22.8 | 114.1 | 6.3 | 66 | 2.1 | 5.3 | 6.2 | 44 | 0.73 | 0.079 | 13 |
| STD DS9 | Standard | 13.5 | 116.7 | 127.4 | 303 | 1.9 | 42.7 | 8.1 | 614 | 2.39 | 24.3 | 122.5 | 6.9 | 70 | 2.3 | 5.5 | 6.0 | 48 | 0.73 | 0.074 | 14 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | 0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 4 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | 0.7 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 3 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 3 | <0.01 | <0.001 | <1 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 05, 2012



# QUALITY CONTROL REPORT DAW12000052.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1239205 | Soil | 20 | 0.48 | 92 | 0.013 | <1 | 1.07 | 0.005 | 0.07 | 0.2 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| REP 1239205 | QC | 20 | 0.47 | 99 | 0.012 | <1 | 1.08 | 0.005 | 0.07 | 0.2 | 0.05 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239217 | Soil | 20 | 0.39 | 145 | 0.006 | <1 | 1.22 | 0.003 | 0.06 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239217 | QC | 20 | 0.40 | 151 | 0.007 | <1 | 1.14 | 0.004 | 0.06 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239241 | Soil | 21 | 0.35 | 182 | 0.029 | 2 | 0.86 | 0.006 | 0.05 | 0.6 | 0.02 | 2.8 | <0.1 | 0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239241 | QC | 21 | 0.36 | 180 | 0.029 | 1 | 0.91 | 0.006 | 0.05 | 0.5 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239305 | Soil | 26 | 0.42 | 135 | 0.024 | <1 | 1.26 | 0.005 | 0.03 | 0.2 | 0.02 | 3.0 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1239305 | QC | 26 | 0.41 | 139 | 0.025 | <1 | 1.24 | 0.005 | 0.04 | 0.2 | 0.04 | 3.1 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239329 | Soil | 14 | 0.29 | 191 | 0.011 | 1 | 0.69 | 0.005 | 0.06 | 0.4 | 0.03 | 1.5 | <0.1 | 0.06 | 2 | <0.5 | 1 | <0.2 |
| REP 1239329 | QC | 15 | 0.28 | 189 | 0.012 | 1 | 0.69 | 0.004 | 0.06 | 0.4 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239341 | Soil | 20 | 0.46 | 117 | 0.008 | <1 | 1.21 | 0.004 | 0.05 | 0.3 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1239341 | QC | 20 | 0.42 | 115 | 0.008 | <1 | 1.15 | 0.003 | 0.05 | 0.3 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239348 | Soil | 82 | 0.49 | 112 | 0.010 | <1 | 1.13 | 0.004 | 0.04 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| REP 1239348 | QC | 75 | 0.48 | 105 | 0.009 | <1 | 1.09 | 0.003 | 0.04 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239704 | Soil | 17 | 0.29 | 201 | 0.022 | <1 | 0.84 | 0.005 | 0.02 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1239704 | QC | 17 | 0.29 | 200 | 0.022 | <1 | 0.83 | 0.006 | 0.02 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 126 | 0.64 | 306 | 0.115 | 3 | 0.98 | 0.085 | 0.38 | 3.5 | 0.21 | 2.9 | 5.7 | 0.18 | 5 | 5.6 | 7 | 5.4 |
| STD DS9 | Standard | 128 | 0.68 | 309 | 0.125 | 2 | 1.00 | 0.093 | 0.35 | 3.2 | 0.20 | 2.9 | 5.5 | 0.28 | 5 | 5.8 | 6 | 4.9 |
| STD DS9 | Standard | 128 | 0.60 | 290 | 0.119 | 2 | 0.92 | 0.085 | 0.39 | 2.9 | 0.21 | 2.2 | 5.3 | 0.16 | 5 | 5.0 | 6 | 5.0 |
| STD DS9 | Standard | 133 | 0.62 | 310 | 0.118 | 2 | 0.91 | 0.081 | 0.35 | 3.3 | 0.21 | 3.2 | 6.0 | 0.21 | 5 | 5.6 | 7 | 5.6 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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56th Floor - 100 King Street West
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Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: July 10, 2012
Report Date: July 17, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS DAW12000052R.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Soils 2
P.O. Number
Number of Samples: 5

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| 1DX2 | 5 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 17, 2012



# CERTIFICATE OF ANALYSIS DAW12000052R.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239215 | Soil | 1.0 | 20.6 | 16.0 | 46 | 0.3 | 19.7 | 8.6 | 419 | 2.12 | 23.9 | 16.6 | 5.6 | 30 | 0.1 | 4.7 | 0.3 | 25 | 0.38 | 0.038 | 21 |
| 1239216 | Soil | 0.8 | 21.6 | 15.3 | 48 | <0.1 | 18.8 | 7.5 | 227 | 2.34 | 15.7 | 2.1 | 6.9 | 13 | <0.1 | 4.3 | 0.3 | 24 | 0.14 | 0.033 | 24 |
| 1239217 | Soil | 0.8 | 26.0 | 17.6 | 64 | <0.1 | 24.4 | 10.6 | 320 | 2.77 | 19.6 | 3.4 | 10.2 | 18 | 0.2 | 5.3 | 0.3 | 23 | 0.20 | 0.027 | 31 |
| 1239218 | Soil | 1.0 | 31.9 | 25.0 | 81 | 0.1 | 30.6 | 14.4 | 504 | 3.15 | 31.2 | 5.8 | 13.0 | 17 | 0.1 | 11.5 | 0.4 | 17 | 0.14 | 0.047 | 39 |
| 1239219 | Soil | 0.8 | 25.5 | 17.7 | 64 | <0.1 | 25.0 | 9.4 | 214 | 2.83 | 23.6 | 1.6 | 9.5 | 11 | 0.1 | 6.4 | 0.3 | 19 | 0.08 | 0.024 | 34 |

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Project: MQ
Report Date: July 17, 2012



# CERTIFICATE OF ANALYSIS DAW12000052R.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239215 | Soil | 16 | 0.26 | 207 | 0.012 | 2 | 0.81 | 0.006 | 0.06 | 0.6 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239216 | Soil | 16 | 0.31 | 151 | 0.009 | 1 | 0.92 | 0.005 | 0.05 | 0.3 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239217 | Soil | 18 | 0.39 | 145 | 0.010 | <1 | 1.09 | 0.004 | 0.06 | 0.2 | <0.01 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239218 | Soil | 14 | 0.30 | 119 | 0.005 | 1 | 0.84 | 0.006 | 0.06 | 0.2 | 0.01 | 1.8 | <0.1 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1239219 | Soil | 15 | 0.27 | 82 | 0.004 | <1 | 0.80 | 0.003 | 0.07 | 0.2 | <0.01 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 17, 2012



# QUALITY CONTROL REPORT DAW12000052R.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 12.1 | 103.8 | 117.6 | 308 | 1.7 | 38.4 | 7.4 | 576 | 2.22 | 26.7 | 100.7 | 5.9 | 77 | 2.5 | 6.6 | 7.0 | 39 | 0.68 | 0.083 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Project: MQ
Report Date: July 17, 2012



# QUALITY CONTROL REPORT DAW12000052R.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 109 | 0.61 | 302 | 0.101 | 3 | 0.89 | 0.088 | 0.35 | 3.0 | 0.21 | 2.3 | 5.1 | 0.11 | 5 | 4.9 | 7 | 5.6 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: June 28, 2012
Report Date: July 11, 2012
Page: 1 of 6

# CERTIFICATE OF ANALYSIS DAW12000066.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Soils 3
P.O. Number
Number of Samples: 135

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 135 | Dry at 60C | | | DAW |
| SS80 | 135 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 135 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 134 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| Method | | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| MDL | | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239872 | Soil | 0.9 | 47.1 | 39.1 | 115 | <0.1 | 34.4 | 12.3 | 179 | 3.19 | 3.5 | 2.1 | 17.6 | 21 | <0.1 | 1.1 | 0.3 | 13 | 0.02 | 0.041 | 53 |
| 1239873 | Soil | 0.7 | 51.1 | 20.3 | 77 | 0.2 | 39.4 | 13.8 | 331 | 3.30 | 7.0 | 1.0 | 13.9 | 6 | 0.1 | 0.5 | 0.3 | 18 | 0.03 | 0.040 | 68 |
| 1239874 | Soil | 0.8 | 29.5 | 15.6 | 78 | <0.1 | 41.3 | 15.0 | 320 | 2.69 | 7.6 | 2.2 | 7.3 | 11 | 0.1 | 1.8 | 0.2 | 29 | 0.07 | 0.027 | 29 |
| 1239875 | Soil | 0.9 | 24.7 | 16.1 | 52 | <0.1 | 23.5 | 11.1 | 276 | 2.26 | 8.9 | 4.0 | 8.1 | 14 | <0.1 | 0.8 | 0.2 | 26 | 0.14 | 0.045 | 25 |
| 1239876 | Soil | 1.0 | 28.0 | 17.7 | 53 | 0.1 | 23.5 | 10.0 | 244 | 2.42 | 7.8 | 1.2 | 7.2 | 14 | <0.1 | 0.5 | 0.2 | 28 | 0.14 | 0.039 | 28 |
| 1239877 | Soil | 0.8 | 28.7 | 16.8 | 61 | <0.1 | 29.5 | 10.5 | 233 | 2.68 | 10.6 | 7.2 | 9.0 | 9 | <0.1 | 10.5 | 0.2 | 28 | 0.07 | 0.019 | 27 |
| 1239878 | Soil | 0.9 | 19.8 | 15.1 | 53 | 0.2 | 21.7 | 8.1 | 200 | 2.67 | 17.9 | 11.6 | 5.5 | 8 | <0.1 | 2.8 | 0.2 | 40 | 0.07 | 0.021 | 12 |
| 1239879 | Soil | 1.1 | 10.5 | 14.2 | 41 | <0.1 | 12.5 | 7.8 | 231 | 2.59 | 11.7 | 1.2 | 5.3 | 9 | <0.1 | 0.8 | 0.2 | 52 | 0.06 | 0.027 | 15 |
| 1239880 | Soil | 0.8 | 20.1 | 13.4 | 50 | <0.1 | 19.5 | 8.1 | 173 | 2.39 | 10.7 | 5.4 | 6.7 | 8 | <0.1 | 0.8 | 0.2 | 35 | 0.05 | 0.015 | 16 |
| 1239881 | Soil | 0.8 | 41.2 | 16.4 | 59 | <0.1 | 22.6 | 10.5 | 301 | 2.65 | 10.8 | 3.5 | 9.7 | 11 | <0.1 | 1.0 | 0.2 | 35 | 0.06 | 0.018 | 21 |
| 1239882 | Soil | 0.9 | 28.4 | 17.0 | 62 | <0.1 | 18.9 | 7.5 | 210 | 2.39 | 10.5 | 3.8 | 8.0 | 10 | 0.1 | 1.2 | 0.2 | 31 | 0.08 | 0.027 | 22 |
| 1239883 | Soil | 0.5 | 29.4 | 12.1 | 53 | 0.1 | 24.7 | 9.4 | 328 | 2.25 | 12.0 | 7.2 | 5.1 | 31 | <0.1 | 2.3 | 0.2 | 32 | 0.46 | 0.040 | 17 |
| 1239884 | Soil | 0.8 | 26.8 | 17.6 | 55 | <0.1 | 24.0 | 9.2 | 265 | 2.52 | 12.8 | 1.7 | 6.7 | 10 | <0.1 | 3.3 | 0.2 | 27 | 0.09 | 0.029 | 21 |
| 1239885 | Soil | 1.0 | 15.7 | 12.4 | 53 | <0.1 | 17.5 | 7.7 | 194 | 2.74 | 11.1 | 1.7 | 4.8 | 8 | <0.1 | 2.7 | 0.2 | 36 | 0.06 | 0.030 | 16 |
| 1239886 | Soil | 1.1 | 20.6 | 14.1 | 56 | <0.1 | 26.0 | 10.0 | 212 | 2.93 | 14.7 | 1.6 | 4.4 | 12 | <0.1 | 1.7 | 0.2 | 47 | 0.13 | 0.037 | 12 |
| 1239887 | Soil | 0.8 | 9.2 | 10.6 | 36 | <0.1 | 12.6 | 5.0 | 135 | 1.90 | 9.5 | <0.5 | 3.4 | 12 | <0.1 | 2.0 | 0.1 | 36 | 0.15 | 0.014 | 12 |
| 1239888 | Soil | 0.6 | 21.9 | 12.8 | 43 | <0.1 | 18.9 | 7.0 | 181 | 2.16 | 8.7 | 6.9 | 6.5 | 18 | <0.1 | 5.6 | 0.2 | 27 | 0.20 | 0.017 | 18 |
| 1239889 | Soil | 0.7 | 21.6 | 17.5 | 46 | <0.1 | 25.7 | 10.7 | 267 | 2.54 | 9.1 | 1.9 | 8.2 | 36 | <0.1 | 11.9 | 0.2 | 28 | 0.35 | 0.022 | 28 |
| 1239890 | Soil | 1.1 | 40.3 | 32.9 | 74 | <0.1 | 31.9 | 13.0 | 287 | 3.45 | 6.7 | 1.3 | 21.4 | 16 | <0.1 | 0.7 | 0.4 | 18 | 0.11 | 0.040 | 53 |
| 1239891 | Soil | 0.9 | 21.3 | 13.3 | 49 | <0.1 | 19.9 | 8.7 | 258 | 2.26 | 7.2 | 1.8 | 6.6 | 16 | 0.1 | 1.6 | 0.2 | 33 | 0.19 | 0.025 | 21 |
| 1239892 | Soil | 0.7 | 10.2 | 13.2 | 29 | 0.2 | 9.7 | 3.9 | 104 | 1.94 | 8.7 | 1.7 | 4.9 | 10 | <0.1 | 2.6 | 0.2 | 37 | 0.08 | 0.019 | 16 |
| 1239893 | Soil | 0.8 | 20.1 | 15.7 | 53 | 0.1 | 20.3 | 8.2 | 219 | 2.45 | 8.2 | 1.6 | 4.2 | 12 | 0.1 | 3.6 | 0.2 | 36 | 0.10 | 0.035 | 18 |
| 1239894 | Soil | 1.1 | 26.3 | 17.7 | 57 | 0.2 | 24.2 | 10.6 | 332 | 3.33 | 8.6 | 0.5 | 8.1 | 10 | <0.1 | 5.0 | 0.2 | 43 | 0.08 | 0.035 | 25 |
| 1239895 | Soil | 0.6 | 32.8 | 17.0 | 69 | <0.1 | 32.5 | 12.7 | 340 | 3.27 | 10.9 | 1.7 | 12.5 | 19 | <0.1 | 1.4 | 0.3 | 28 | 0.18 | 0.023 | 33 |
| 1239896 | Soil | 1.0 | 16.5 | 11.6 | 40 | <0.1 | 15.8 | 6.5 | 175 | 2.23 | 8.1 | 1.1 | 6.3 | 38 | <0.1 | 4.9 | 0.2 | 30 | 0.25 | 0.016 | 22 |
| 1241701 | Soil | 1.1 | 46.6 | 20.9 | 76 | 0.1 | 40.8 | 17.5 | 1095 | 3.22 | 12.4 | 3.6 | 12.7 | 61 | 0.3 | 9.1 | 0.3 | 21 | 0.74 | 0.068 | 29 |
| 1241702 | Soil | 0.7 | 40.3 | 24.8 | 67 | <0.1 | 33.8 | 15.1 | 553 | 3.17 | 17.6 | 5.8 | 12.9 | 33 | 0.2 | 14.6 | 0.3 | 17 | 0.36 | 0.051 | 32 |
| 1241703 | Soil | 0.7 | 19.3 | 9.7 | 51 | <0.1 | 18.0 | 7.5 | 282 | 1.79 | 8.5 | 4.4 | 5.1 | 21 | 0.1 | 1.8 | 0.1 | 29 | 0.27 | 0.065 | 16 |
| 1241704 | Soil | 1.0 | 20.2 | 19.5 | 42 | <0.1 | 22.3 | 8.9 | 246 | 2.57 | 8.0 | 0.6 | 6.8 | 18 | 0.1 | 8.4 | 0.3 | 35 | 0.26 | 0.018 | 21 |
| 1241705 | Soil | 0.9 | 29.1 | 12.2 | 50 | <0.1 | 25.6 | 8.9 | 267 | 2.43 | 14.4 | 3.0 | 6.4 | 20 | <0.1 | 1.8 | 0.2 | 41 | 0.26 | 0.026 | 18 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239872 | Soil | 17 | 0.20 | 72 | 0.001 | 1 | 0.84 | 0.004 | 0.08 | <0.1 | 0.05 | 1.7 | <0.1 | 0.06 | 2 | <0.5 | 2 | <0.2 |
| 1239873 | Soil | 18 | 0.48 | 48 | 0.006 | <1 | 1.29 | 0.004 | 0.05 | <0.1 | 0.02 | 1.2 | <0.1 | <0.05 | 4 | <0.5 | 5 | <0.2 |
| 1239874 | Soil | 20 | 0.34 | 137 | 0.014 | 1 | 1.15 | 0.005 | 0.05 | 0.2 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239875 | Soil | 18 | 0.32 | 209 | 0.019 | 2 | 0.92 | 0.005 | 0.04 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239876 | Soil | 20 | 0.39 | 185 | 0.010 | 1 | 1.24 | 0.004 | 0.03 | 0.2 | 0.06 | 1.9 | <0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1239877 | Soil | 17 | 0.22 | 99 | 0.011 | 2 | 0.92 | 0.004 | 0.10 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1239878 | Soil | 26 | 0.36 | 159 | 0.022 | <1 | 1.41 | 0.003 | 0.05 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239879 | Soil | 26 | 0.35 | 148 | 0.036 | <1 | 1.55 | 0.008 | 0.05 | 0.2 | 0.02 | 2.9 | 0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| 1239880 | Soil | 23 | 0.38 | 131 | 0.020 | <1 | 1.34 | 0.004 | 0.03 | 0.1 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1239881 | Soil | 23 | 0.44 | 142 | 0.033 | 1 | 1.25 | 0.005 | 0.04 | 0.2 | 0.07 | 5.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239882 | Soil | 21 | 0.42 | 163 | 0.023 | <1 | 1.18 | 0.004 | 0.03 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | 6 | <0.2 |
| 1239883 | Soil | 19 | 0.37 | 244 | 0.022 | 1 | 0.98 | 0.011 | 0.04 | 0.2 | 0.06 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239884 | Soil | 19 | 0.31 | 106 | 0.009 | <1 | 1.03 | 0.003 | 0.05 | 0.2 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239885 | Soil | 19 | 0.29 | 88 | 0.013 | <1 | 1.12 | 0.003 | 0.05 | 0.2 | 0.01 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239886 | Soil | 29 | 0.39 | 196 | 0.023 | <1 | 1.72 | 0.004 | 0.06 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239887 | Soil | 18 | 0.27 | 114 | 0.019 | <1 | 0.90 | 0.003 | 0.06 | 0.2 | <0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239888 | Soil | 19 | 0.35 | 137 | 0.011 | <1 | 1.03 | 0.004 | 0.07 | 0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1239889 | Soil | 26 | 0.32 | 116 | 0.009 | 2 | 0.89 | 0.004 | 0.11 | 0.1 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 4 | <0.2 |
| 1239890 | Soil | 19 | 0.54 | 94 | 0.006 | <1 | 1.26 | 0.003 | 0.05 | <0.1 | 0.04 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1239891 | Soil | 21 | 0.36 | 161 | 0.014 | <1 | 1.10 | 0.004 | 0.04 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1239892 | Soil | 17 | 0.21 | 107 | 0.016 | <1 | 0.97 | 0.003 | 0.04 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239893 | Soil | 21 | 0.34 | 105 | 0.018 | <1 | 1.06 | 0.005 | 0.08 | 0.2 | 0.04 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239894 | Soil | 30 | 0.47 | 155 | 0.007 | <1 | 1.61 | 0.004 | 0.10 | 0.1 | 0.02 | 2.5 | 0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1239895 | Soil | 26 | 0.69 | 139 | 0.009 | <1 | 1.63 | 0.003 | 0.06 | <0.1 | 0.01 | 1.8 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1239896 | Soil | 16 | 0.24 | 130 | 0.010 | <1 | 0.86 | 0.003 | 0.06 | 0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241701 | Soil | 17 | 0.39 | 116 | 0.011 | 1 | 0.86 | 0.006 | 0.07 | 0.1 | 0.07 | 2.9 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1241702 | Soil | 14 | 0.29 | 93 | 0.005 | 1 | 0.80 | 0.003 | 0.12 | <0.1 | 0.04 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1241703 | Soil | 18 | 0.30 | 200 | 0.022 | <1 | 0.73 | 0.008 | 0.05 | 0.4 | 0.04 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241704 | Soil | 20 | 0.27 | 147 | 0.009 | <1 | 1.27 | 0.005 | 0.08 | 0.1 | 0.02 | 2.9 | 0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1241705 | Soil | 25 | 0.39 | 324 | 0.031 | <1 | 1.11 | 0.007 | 0.05 | 0.2 | 0.07 | 4.4 | <0.1 | <0.05 | 3 | 0.5 | 1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241706 | Soil | 0.9 | 17.8 | 12.8 | 51 | 0.1 | 19.1 | 8.0 | 185 | 2.50 | 8.7 | 1.3 | 5.4 | 11 | <0.1 | 2.3 | 0.2 | 42 | 0.10 | 0.016 | 17 |
| 1241707 | Soil | 0.7 | 23.9 | 12.3 | 56 | <0.1 | 24.2 | 8.4 | 236 | 2.50 | 7.7 | 2.0 | 6.9 | 16 | <0.1 | 5.0 | 0.2 | 28 | 0.19 | 0.029 | 22 |
| 1241708 | Soil | 1.1 | 26.1 | 12.6 | 59 | <0.1 | 22.7 | 7.7 | 187 | 2.33 | 11.2 | 3.9 | 6.8 | 13 | <0.1 | 2.7 | 0.2 | 34 | 0.14 | 0.016 | 20 |
| 1240284 | Soil | 0.8 | 21.4 | 13.6 | 57 | <0.1 | 20.3 | 8.2 | 394 | 2.50 | 8.0 | 1.4 | 6.2 | 33 | <0.1 | 2.3 | 0.2 | 40 | 0.40 | 0.020 | 19 |
| 1240285 | Soil | 0.8 | 31.1 | 20.8 | 47 | 0.2 | 35.4 | 12.5 | 298 | 2.99 | 11.4 | 3.9 | 11.1 | 78 | <0.1 | 3.2 | 0.3 | 28 | 1.05 | 0.049 | 30 |
| 1240286 | Soil | 0.8 | 31.4 | 17.4 | 59 | <0.1 | 29.4 | 12.3 | 329 | 2.91 | 11.9 | 2.2 | 9.0 | 106 | 0.2 | 2.7 | 0.2 | 29 | 1.34 | 0.042 | 25 |
| 1240287 | Soil | 0.6 | 34.7 | 23.2 | 72 | 0.1 | 33.1 | 13.5 | 476 | 3.00 | 15.7 | 2.9 | 11.9 | 30 | 0.3 | 10.5 | 0.3 | 21 | 0.36 | 0.055 | 33 |
| 1240288 | Soil | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. |
| 1240289 | Soil | 0.6 | 25.1 | 13.5 | 37 | 0.2 | 21.9 | 7.7 | 456 | 1.89 | 8.7 | 6.5 | 2.7 | 200 | 0.1 | 5.5 | 0.2 | 18 | 1.90 | 0.049 | 12 |
| 1240290 | Soil | 0.6 | 22.4 | 23.7 | 57 | <0.1 | 25.3 | 11.8 | 282 | 2.76 | 5.5 | 1.4 | 10.4 | 28 | <0.1 | 12.4 | 0.3 | 21 | 0.46 | 0.025 | 35 |
| 1240291 | Soil | 0.8 | 31.7 | 17.8 | 62 | 0.1 | 29.8 | 12.0 | 250 | 3.21 | 12.8 | 1.0 | 12.9 | 16 | <0.1 | 10.0 | 0.2 | 26 | 0.15 | 0.028 | 40 |
| 1240292 | Soil | 0.7 | 14.5 | 11.6 | 45 | <0.1 | 15.7 | 6.1 | 190 | 2.09 | 9.1 | <0.5 | 5.7 | 17 | <0.1 | 1.9 | 0.2 | 32 | 0.20 | 0.021 | 20 |
| 1240293 | Soil | 0.8 | 20.6 | 18.8 | 50 | 0.1 | 20.3 | 8.6 | 252 | 2.62 | 9.2 | 1.8 | 10.1 | 13 | <0.1 | 6.6 | 0.2 | 22 | 0.11 | 0.031 | 37 |
| 1240294 | Soil | 0.8 | 27.3 | 20.9 | 70 | 0.2 | 23.8 | 9.2 | 550 | 2.43 | 31.7 | 24.0 | 6.9 | 53 | 0.5 | 3.3 | 0.3 | 25 | 0.83 | 0.069 | 23 |
| 1240295 | Soil | 0.7 | 31.9 | 15.4 | 65 | 0.1 | 26.9 | 10.8 | 408 | 2.59 | 18.2 | 2.1 | 6.3 | 39 | <0.1 | 2.8 | 0.2 | 34 | 0.64 | 0.055 | 20 |
| 1240296 | Soil | 0.8 | 32.3 | 19.0 | 65 | <0.1 | 31.0 | 12.2 | 389 | 3.03 | 12.9 | 3.2 | 12.1 | 31 | <0.1 | 3.8 | 0.3 | 25 | 0.37 | 0.035 | 34 |
| 1240297 | Soil | 0.8 | 41.6 | 22.2 | 72 | 0.1 | 38.5 | 14.6 | 415 | 3.38 | 9.7 | 6.3 | 12.5 | 75 | <0.1 | 5.0 | 0.3 | 19 | 1.09 | 0.056 | 41 |
| 1240298 | Soil | 0.4 | 21.7 | 10.2 | 40 | 0.1 | 15.5 | 5.5 | 311 | 1.33 | 3.2 | 2.4 | 1.1 | 243 | 0.2 | 2.6 | 0.1 | 10 | 3.75 | 0.066 | 8 |
| 1240299 | Soil | 0.6 | 38.7 | 24.3 | 74 | 0.1 | 34.2 | 14.8 | 685 | 3.20 | 19.1 | 4.0 | 13.8 | 27 | 0.2 | 15.9 | 0.3 | 21 | 0.34 | 0.055 | 37 |
| 1240300 | Soil | 0.7 | 40.0 | 25.5 | 75 | 0.1 | 34.8 | 14.5 | 528 | 3.29 | 15.8 | 4.6 | 12.7 | 35 | 0.2 | 10.0 | 0.3 | 22 | 0.39 | 0.054 | 37 |
| 1240301 | Soil | 1.3 | 48.9 | 27.3 | 89 | 0.1 | 43.4 | 21.3 | 706 | 4.04 | 12.4 | 1.3 | 19.4 | 136 | 0.1 | 5.6 | 0.3 | 18 | 1.71 | 0.072 | 50 |
| 1240302 | Soil | 1.1 | 38.1 | 22.8 | 84 | 0.1 | 35.6 | 14.9 | 618 | 3.72 | 38.2 | 1.6 | 12.1 | 51 | 0.2 | 2.6 | 0.3 | 36 | 0.57 | 0.047 | 36 |
| 1240303 | Soil | 0.9 | 31.4 | 27.6 | 70 | <0.1 | 30.4 | 13.4 | 283 | 2.94 | 30.0 | 3.1 | 16.4 | 25 | <0.1 | 2.9 | 0.3 | 21 | 0.27 | 0.042 | 39 |
| 1240304 | Soil | 1.0 | 39.7 | 20.2 | 53 | 0.2 | 30.3 | 10.3 | 319 | 2.35 | 22.8 | 3.0 | 7.4 | 129 | 0.1 | 3.3 | 0.3 | 16 | 1.72 | 0.057 | 24 |
| 1240305 | Soil | 0.7 | 30.9 | 28.8 | 66 | 0.1 | 28.1 | 11.7 | 404 | 2.85 | 17.7 | 2.5 | 9.3 | 47 | 0.1 | 8.3 | 0.3 | 20 | 0.66 | 0.054 | 29 |
| 1240306 | Soil | 0.7 | 23.4 | 16.3 | 62 | 0.1 | 26.6 | 14.0 | 829 | 2.30 | 8.6 | 3.8 | 5.7 | 69 | 0.2 | 2.0 | 0.2 | 22 | 0.82 | 0.048 | 28 |
| 1240307 | Soil | 0.7 | 33.4 | 18.4 | 53 | 0.1 | 28.9 | 12.0 | 507 | 2.60 | 14.1 | 3.3 | 5.9 | 119 | 0.2 | 6.4 | 0.2 | 24 | 1.38 | 0.041 | 23 |
| 1240308 | Soil | 0.8 | 35.6 | 33.8 | 73 | 0.2 | 30.1 | 11.6 | 444 | 2.92 | 37.7 | 3.9 | 9.3 | 69 | 0.3 | 6.4 | 0.5 | 25 | 0.76 | 0.049 | 32 |
| 1240309 | Soil | 0.7 | 19.1 | 17.7 | 49 | <0.1 | 20.8 | 7.5 | 178 | 2.29 | 22.4 | 1.6 | 6.6 | 85 | <0.1 | 2.6 | 0.3 | 32 | 0.29 | 0.018 | 21 |
| 1240310 | Soil | 1.1 | 39.5 | 26.5 | 71 | <0.1 | 33.5 | 11.9 | 344 | 2.70 | 18.3 | 3.8 | 10.8 | 88 | 0.1 | 4.1 | 0.3 | 35 | 0.43 | 0.044 | 29 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241706 | Soil | 22 | 0.35 | 169 | 0.017 | <1 | 1.30 | 0.004 | 0.05 | 0.2 | 0.01 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241707 | Soil | 18 | 0.35 | 178 | 0.011 | <1 | 1.06 | 0.004 | 0.07 | 0.1 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241708 | Soil | 21 | 0.35 | 216 | 0.020 | <1 | 1.15 | 0.004 | 0.05 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240284 | Soil | 25 | 0.37 | 344 | 0.016 | <1 | 1.45 | 0.008 | 0.06 | 0.2 | 0.02 | 3.1 | <0.1 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1240285 | Soil | 21 | 0.26 | 247 | 0.008 | <1 | 1.18 | 0.006 | 0.06 | 0.2 | 0.05 | 5.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240286 | Soil | 20 | 0.38 | 232 | 0.013 | <1 | 1.11 | 0.006 | 0.07 | 0.1 | 0.06 | 3.3 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1240287 | Soil | 18 | 0.36 | 118 | 0.011 | 2 | 0.90 | 0.005 | 0.11 | 0.3 | 0.05 | 2.5 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1240288 | Soil | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. |
| 1240289 | Soil | 15 | 0.27 | 221 | 0.010 | 2 | 0.78 | 0.008 | 0.06 | 0.2 | 0.04 | 2.0 | <0.1 | 0.06 | 2 | <0.5 | 3 | <0.2 |
| 1240290 | Soil | 15 | 0.27 | 148 | 0.005 | <1 | 0.89 | 0.005 | 0.11 | <0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 8 | <0.2 |
| 1240291 | Soil | 16 | 0.25 | 125 | 0.007 | <1 | 0.94 | 0.003 | 0.14 | 0.1 | 0.01 | 1.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240292 | Soil | 18 | 0.32 | 206 | 0.016 | <1 | 1.09 | 0.005 | 0.05 | 0.1 | 0.03 | 2.1 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1240293 | Soil | 13 | 0.18 | 181 | 0.007 | <1 | 0.76 | 0.003 | 0.12 | 0.1 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240294 | Soil | 19 | 0.42 | 166 | 0.022 | 2 | 1.02 | 0.009 | 0.07 | 0.7 | 0.04 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1240295 | Soil | 21 | 0.41 | 248 | 0.032 | 1 | 1.03 | 0.009 | 0.07 | 0.3 | 0.05 | 3.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240296 | Soil | 21 | 0.43 | 160 | 0.014 | <1 | 1.17 | 0.004 | 0.09 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1240297 | Soil | 19 | 0.52 | 131 | 0.006 | 2 | 1.24 | 0.005 | 0.08 | 0.1 | 0.04 | 3.6 | <0.1 | <0.05 | 3 | 0.6 | 2 | <0.2 |
| 1240298 | Soil | 9 | 0.22 | 122 | 0.004 | 6 | 0.58 | 0.006 | 0.05 | <0.1 | 0.07 | 0.9 | <0.1 | 0.15 | 1 | 0.9 | 2 | <0.2 |
| 1240299 | Soil | 19 | 0.36 | 144 | 0.012 | 3 | 1.03 | 0.006 | 0.14 | 0.2 | 0.05 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240300 | Soil | 21 | 0.38 | 130 | 0.009 | 2 | 0.99 | 0.005 | 0.11 | 0.3 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | 0.5 | 2 | <0.2 |
| 1240301 | Soil | 18 | 0.55 | 101 | 0.006 | <1 | 1.07 | 0.004 | 0.11 | 0.1 | 0.07 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240302 | Soil | 26 | 0.62 | 255 | 0.015 | 1 | 1.56 | 0.009 | 0.08 | 0.3 | 0.05 | 3.6 | <0.1 | <0.05 | 5 | 0.6 | 3 | <0.2 |
| 1240303 | Soil | 20 | 0.44 | 138 | 0.011 | <1 | 1.18 | 0.006 | 0.08 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1240304 | Soil | 14 | 0.28 | 290 | 0.006 | 2 | 0.91 | 0.007 | 0.07 | 0.3 | 0.08 | 1.9 | <0.1 | <0.05 | 3 | 0.5 | 2 | <0.2 |
| 1240305 | Soil | 18 | 0.33 | 138 | 0.012 | <1 | 0.88 | 0.007 | 0.11 | 0.3 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 15 | <0.2 |
| 1240306 | Soil | 19 | 0.41 | 205 | 0.010 | 2 | 1.07 | 0.006 | 0.05 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240307 | Soil | 19 | 0.25 | 178 | 0.012 | 3 | 0.91 | 0.007 | 0.08 | 0.2 | 0.06 | 3.0 | <0.1 | <0.05 | 3 | 0.9 | 3 | <0.2 |
| 1240308 | Soil | 22 | 0.39 | 169 | 0.016 | 2 | 1.07 | 0.008 | 0.10 | 0.4 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 11 | <0.2 |
| 1240309 | Soil | 22 | 0.35 | 114 | 0.015 | <1 | 1.17 | 0.004 | 0.06 | 0.3 | 0.02 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240310 | Soil | 26 | 0.43 | 368 | 0.029 | 2 | 1.25 | 0.009 | 0.09 | 0.4 | 0.04 | 3.4 | <0.1 | <0.05 | 4 | 0.5 | 6 | <0.2 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1240311 | Soil | 0.6 | 27.3 | 20.5 | 42 | 0.1 | 21.5 | 11.4 | 1367 | 1.92 | 25.6 | 2.8 | 1.6 | 481 | 0.3 | 4.1 | 0.3 | 15 | 2.49 | 0.077 | 12 |
| 1240312 | Soil | 0.5 | 29.2 | 18.9 | 57 | 0.1 | 23.5 | 9.7 | 221 | 1.96 | 12.2 | 3.7 | 6.2 | 55 | 0.2 | 3.1 | 0.3 | 25 | 0.70 | 0.050 | 27 |
| 1240313 | Soil | 0.7 | 34.0 | 24.4 | 68 | 0.1 | 30.3 | 11.8 | 344 | 2.80 | 14.3 | 13.5 | 11.1 | 58 | 0.1 | 8.6 | 0.3 | 17 | 0.74 | 0.055 | 32 |
| 1240314 | Soil | 1.2 | 33.5 | 32.3 | 69 | <0.1 | 27.9 | 12.2 | 179 | 3.38 | 11.7 | 0.7 | 21.6 | 29 | <0.1 | 1.5 | 0.4 | 14 | 0.08 | 0.033 | 58 |
| 1240315 | Soil | 0.7 | 31.3 | 27.6 | 62 | <0.1 | 29.7 | 11.3 | 342 | 2.91 | 29.7 | 2.1 | 12.9 | 63 | <0.1 | 7.5 | 0.4 | 18 | 0.63 | 0.053 | 42 |
| 1240316 | Soil | 0.6 | 27.0 | 18.6 | 42 | 0.1 | 24.7 | 6.7 | 259 | 1.75 | 8.0 | 3.0 | 5.9 | 39 | <0.1 | 1.0 | 0.2 | 20 | 0.53 | 0.053 | 25 |
| 1240317 | Soil | 0.9 | 12.3 | 9.6 | 44 | 0.1 | 13.4 | 7.7 | 311 | 2.06 | 13.6 | 9.3 | 3.5 | 29 | 0.2 | 1.0 | 0.1 | 28 | 0.65 | 0.053 | 15 |
| 1240318 | Soil | 0.6 | 30.7 | 9.0 | 61 | <0.1 | 24.8 | 9.0 | 291 | 1.93 | 15.9 | 2.0 | 4.8 | 15 | 0.1 | 0.8 | 0.1 | 28 | 0.21 | 0.067 | 15 |
| 1240319 | Soil | 1.1 | 33.9 | 20.9 | 64 | <0.1 | 30.9 | 12.1 | 235 | 3.10 | 21.7 | 7.5 | 9.6 | 16 | <0.1 | 5.6 | 0.3 | 26 | 0.18 | 0.023 | 37 |
| 1240320 | Soil | 0.6 | 22.4 | 11.4 | 48 | <0.1 | 19.4 | 6.7 | 155 | 2.15 | 14.8 | 6.7 | 4.3 | 11 | <0.1 | 2.6 | 0.2 | 33 | 0.12 | 0.037 | 16 |
| 1240321 | Soil | 0.5 | 16.9 | 11.6 | 56 | 0.1 | 17.2 | 7.9 | 233 | 2.14 | 10.2 | 12.0 | 7.1 | 25 | <0.1 | 1.9 | 0.2 | 23 | 0.33 | 0.062 | 24 |
| 1240322 | Soil | 0.7 | 23.3 | 19.3 | 63 | 0.1 | 18.9 | 7.8 | 187 | 2.41 | 18.9 | 3.9 | 9.6 | 49 | 0.1 | 4.2 | 0.3 | 23 | 0.41 | 0.055 | 30 |
| 1240323 | Soil | 0.5 | 22.5 | 13.4 | 56 | <0.1 | 19.8 | 8.4 | 327 | 2.11 | 11.3 | 3.9 | 5.1 | 63 | 0.1 | 6.0 | 0.2 | 19 | 0.78 | 0.059 | 19 |
| 1240059 | Soil | 0.7 | 28.7 | 20.4 | 64 | 0.1 | 26.5 | 11.3 | 353 | 2.55 | 25.1 | 3.2 | 7.3 | 24 | <0.1 | 3.8 | 0.3 | 24 | 0.23 | 0.058 | 28 |
| 1240060 | Soil | 1.0 | 40.0 | 24.3 | 83 | 0.1 | 33.8 | 16.1 | 575 | 3.05 | 31.2 | 5.7 | 12.3 | 26 | 0.2 | 7.9 | 0.4 | 21 | 0.34 | 0.067 | 30 |
| 1240061 | Soil | 1.2 | 34.7 | 22.4 | 72 | 0.1 | 39.9 | 13.7 | 240 | 3.51 | 13.5 | 2.3 | 11.4 | 11 | 0.1 | 2.0 | 0.3 | 29 | 0.08 | 0.035 | 31 |
| 1240062 | Soil | 0.7 | 37.1 | 20.8 | 77 | 0.1 | 41.0 | 19.3 | 459 | 3.03 | 14.5 | 3.5 | 10.3 | 19 | 0.1 | 4.2 | 0.3 | 22 | 0.17 | 0.047 | 33 |
| 1240063 | Soil | 0.8 | 31.6 | 20.9 | 67 | 0.2 | 32.1 | 12.7 | 289 | 2.56 | 14.7 | 2.2 | 9.1 | 34 | 0.2 | 4.4 | 0.3 | 21 | 0.40 | 0.058 | 30 |
| 1240064 | Soil | 0.8 | 27.3 | 16.9 | 61 | 0.1 | 25.2 | 15.8 | 716 | 2.60 | 5.8 | 6.0 | 6.9 | 42 | 0.1 | 1.0 | 0.2 | 20 | 0.40 | 0.049 | 30 |
| 1240065 | Soil | 0.8 | 20.6 | 16.4 | 65 | 0.1 | 20.8 | 13.8 | 539 | 2.63 | 7.7 | 2.7 | 6.5 | 30 | 0.1 | 1.1 | 0.2 | 22 | 0.31 | 0.047 | 27 |
| 1240066 | Soil | 0.7 | 19.3 | 9.4 | 51 | 0.1 | 18.8 | 7.2 | 673 | 1.82 | 10.2 | 4.3 | 3.2 | 47 | 0.1 | 1.7 | 0.1 | 26 | 0.64 | 0.060 | 13 |
| 1240067 | Soil | 1.1 | 29.8 | 13.4 | 73 | <0.1 | 27.4 | 10.2 | 432 | 2.41 | 14.3 | 6.1 | 6.2 | 25 | 0.2 | 3.2 | 0.2 | 30 | 0.35 | 0.064 | 18 |
| 1240068 | Soil | 1.0 | 37.5 | 22.5 | 82 | 0.2 | 30.8 | 11.8 | 437 | 2.90 | 37.0 | 2.5 | 9.7 | 34 | 0.3 | 5.2 | 0.4 | 25 | 0.51 | 0.074 | 27 |
| 1240069 | Soil | 1.0 | 28.1 | 21.8 | 72 | <0.1 | 28.1 | 10.7 | 408 | 2.77 | 33.6 | 1.0 | 8.2 | 39 | 0.2 | 4.6 | 0.3 | 23 | 0.58 | 0.054 | 24 |
| 1240070 | Soil | 0.9 | 34.3 | 38.8 | 75 | 0.2 | 25.1 | 10.9 | 280 | 2.96 | 27.9 | 2.4 | 12.0 | 23 | 0.2 | 9.5 | 0.5 | 23 | 0.25 | 0.050 | 34 |
| 1240071 | Soil | 0.6 | 17.7 | 14.4 | 51 | 0.1 | 19.0 | 10.6 | 396 | 2.28 | 8.7 | 8.9 | 5.4 | 43 | 0.1 | 2.8 | 0.2 | 20 | 0.62 | 0.046 | 23 |
| 1240072 | Soil | 0.9 | 17.9 | 8.2 | 50 | <0.1 | 16.5 | 7.0 | 207 | 1.86 | 9.9 | 0.8 | 3.6 | 23 | 0.1 | 0.9 | 0.1 | 32 | 0.31 | 0.060 | 12 |
| 1240073 | Soil | 1.0 | 24.8 | 30.1 | 69 | 0.1 | 22.0 | 9.2 | 238 | 2.62 | 26.8 | 1.8 | 10.1 | 17 | 0.2 | 7.4 | 0.4 | 22 | 0.16 | 0.043 | 30 |
| 1240074 | Soil | 0.8 | 27.1 | 18.7 | 53 | 0.2 | 22.0 | 8.3 | 244 | 2.17 | 22.6 | 1.4 | 3.9 | 74 | 0.2 | 5.0 | 0.3 | 19 | 1.33 | 0.053 | 15 |
| 1240075 | Soil | 0.8 | 38.9 | 22.9 | 75 | 0.2 | 31.0 | 13.0 | 530 | 3.11 | 28.0 | 3.1 | 10.5 | 37 | 0.2 | 6.5 | 0.3 | 22 | 0.44 | 0.062 | 30 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1240311 | Soil | 13 | 0.65 | 192 | 0.007 | 7 | 0.74 | 0.010 | 0.08 | 0.2 | 0.08 | 1.2 | <0.1 | 0.24 | 2 | 1.2 | 6 | <0.2 |
| 1240312 | Soil | 19 | 0.39 | 205 | 0.010 | 2 | 1.04 | 0.007 | 0.05 | 0.4 | 0.04 | 2.0 | <0.1 | 0.06 | 3 | <0.5 | 2 | <0.2 |
| 1240313 | Soil | 18 | 0.32 | 140 | 0.010 | 2 | 0.87 | 0.006 | 0.11 | 0.3 | 0.04 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 3 | <0.2 |
| 1240314 | Soil | 13 | 0.41 | 76 | 0.003 | <1 | 1.04 | 0.005 | 0.11 | <0.1 | 0.01 | 1.3 | <0.1 | <0.05 | 4 | <0.5 | 4 | <0.2 |
| 1240315 | Soil | 16 | 0.29 | 132 | 0.007 | 1 | 0.96 | 0.007 | 0.10 | 0.3 | 0.06 | 2.9 | 0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240316 | Soil | 12 | 0.23 | 225 | 0.008 | 1 | 0.69 | 0.008 | 0.07 | 0.1 | 0.08 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | 8 | <0.2 |
| 1240317 | Soil | 16 | 0.34 | 167 | 0.017 | 2 | 0.78 | 0.006 | 0.04 | 0.3 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1240318 | Soil | 17 | 0.30 | 125 | 0.032 | <1 | 0.76 | 0.005 | 0.03 | 0.3 | 0.03 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240319 | Soil | 15 | 0.18 | 141 | 0.004 | <1 | 1.08 | 0.003 | 0.08 | 0.2 | 0.01 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240320 | Soil | 15 | 0.24 | 64 | 0.023 | <1 | 0.75 | 0.004 | 0.04 | 0.3 | <0.01 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240321 | Soil | 17 | 0.33 | 141 | 0.019 | <1 | 0.77 | 0.007 | 0.05 | 0.5 | 0.04 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1240322 | Soil | 18 | 0.37 | 132 | 0.018 | 1 | 0.86 | 0.006 | 0.07 | 0.4 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240323 | Soil | 15 | 0.28 | 117 | 0.010 | <1 | 0.66 | 0.006 | 0.06 | 0.2 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240059 | Soil | 20 | 0.39 | 170 | 0.013 | <1 | 1.02 | 0.007 | 0.05 | 0.3 | 0.06 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240060 | Soil | 19 | 0.41 | 121 | 0.019 | <1 | 0.91 | 0.009 | 0.09 | 0.4 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240061 | Soil | 24 | 0.46 | 133 | 0.008 | <1 | 1.49 | 0.004 | 0.04 | 0.2 | 0.02 | 2.2 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240062 | Soil | 21 | 0.50 | 173 | 0.008 | <1 | 1.27 | 0.005 | 0.05 | 0.2 | 0.05 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240063 | Soil | 21 | 0.40 | 181 | 0.009 | <1 | 1.13 | 0.006 | 0.05 | 0.4 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240064 | Soil | 17 | 0.44 | 192 | 0.006 | <1 | 1.10 | 0.005 | 0.04 | 0.1 | 0.04 | 1.7 | <0.1 | <0.05 | 3 | 0.6 | 1 | <0.2 |
| 1240065 | Soil | 18 | 0.45 | 173 | 0.007 | <1 | 1.06 | 0.005 | 0.03 | 0.1 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240066 | Soil | 16 | 0.29 | 268 | 0.016 | 4 | 0.79 | 0.008 | 0.03 | 0.3 | 0.05 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240067 | Soil | 21 | 0.37 | 317 | 0.027 | 1 | 0.99 | 0.008 | 0.05 | 0.3 | 0.06 | 3.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240068 | Soil | 22 | 0.42 | 162 | 0.021 | <1 | 1.00 | 0.009 | 0.09 | 0.4 | 0.06 | 2.9 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240069 | Soil | 21 | 0.43 | 176 | 0.014 | <1 | 1.02 | 0.009 | 0.07 | 0.4 | 0.05 | 2.5 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1240070 | Soil | 22 | 0.35 | 126 | 0.015 | <1 | 0.96 | 0.005 | 0.08 | 0.3 | 0.09 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240071 | Soil | 17 | 0.36 | 146 | 0.008 | <1 | 0.84 | 0.005 | 0.04 | 0.2 | 0.05 | 1.6 | <0.1 | 0.06 | 3 | 0.7 | <1 | <0.2 |
| 1240072 | Soil | 17 | 0.35 | 245 | 0.027 | <1 | 0.84 | 0.010 | 0.03 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1240073 | Soil | 19 | 0.32 | 127 | 0.014 | <1 | 0.90 | 0.005 | 0.07 | 0.2 | 0.06 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240074 | Soil | 15 | 0.27 | 204 | 0.009 | 2 | 0.81 | 0.007 | 0.06 | 0.3 | 0.07 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1240075 | Soil | 18 | 0.39 | 146 | 0.009 | <1 | 1.00 | 0.006 | 0.08 | 0.3 | 0.05 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1240076 | Soil | 1.0 | 34.2 | 32.0 | 80 | 0.2 | 30.1 | 12.3 | 523 | 2.96 | 34.5 | 5.0 | 11.0 | 26 | 0.3 | 8.1 | 0.5 | 24 | 0.31 | 0.056 | 30 |
| 1240077 | Soil | 0.9 | 36.5 | 30.0 | 73 | 0.2 | 26.8 | 10.6 | 245 | 2.74 | 29.7 | 5.1 | 8.8 | 33 | 0.2 | 6.6 | 0.5 | 25 | 0.43 | 0.053 | 29 |
| 1240078 | Soil | 1.1 | 26.0 | 18.6 | 61 | 0.1 | 24.7 | 9.7 | 271 | 2.45 | 18.0 | 7.9 | 7.5 | 26 | 0.2 | 3.3 | 0.3 | 26 | 0.33 | 0.059 | 23 |
| 1240079 | Soil | 0.6 | 22.0 | 15.2 | 60 | <0.1 | 24.5 | 14.4 | 755 | 2.47 | 10.7 | 1.6 | 6.2 | 50 | 0.2 | 2.3 | 0.2 | 20 | 0.47 | 0.050 | 25 |
| 1240080 | Soil | 0.6 | 21.2 | 13.9 | 45 | <0.1 | 20.1 | 10.6 | 436 | 2.25 | 11.6 | 5.6 | 5.7 | 36 | 0.1 | 2.2 | 0.2 | 21 | 0.39 | 0.045 | 23 |
| 1240081 | Soil | 1.2 | 37.1 | 30.8 | 85 | 0.2 | 24.2 | 10.3 | 203 | 3.74 | 66.5 | 4.8 | 10.8 | 30 | 0.2 | 8.1 | 0.5 | 23 | 0.39 | 0.056 | 32 |
| 1240082 | Soil | 1.2 | 25.1 | 14.3 | 58 | <0.1 | 21.3 | 8.2 | 305 | 2.37 | 18.0 | 2.8 | 5.0 | 20 | <0.1 | 2.3 | 0.2 | 31 | 0.22 | 0.057 | 18 |
| 1240083 | Soil | 0.6 | 19.2 | 17.9 | 56 | <0.1 | 19.1 | 7.4 | 222 | 2.26 | 24.9 | 5.4 | 7.8 | 28 | <0.1 | 4.7 | 0.4 | 22 | 0.27 | 0.044 | 24 |
| 1240084 | Soil | 0.9 | 31.4 | 21.4 | 79 | 0.2 | 27.9 | 11.9 | 595 | 2.51 | 40.7 | 3.3 | 9.1 | 25 | 0.3 | 3.4 | 0.3 | 24 | 0.49 | 0.061 | 24 |
| 1240085 | Soil | 0.9 | 30.7 | 23.8 | 74 | 0.2 | 27.3 | 10.1 | 306 | 2.68 | 35.6 | 4.9 | 8.3 | 34 | 0.3 | 4.3 | 0.3 | 24 | 0.50 | 0.063 | 23 |
| 1240086 | Soil | 0.8 | 29.1 | 27.5 | 68 | 0.2 | 24.3 | 9.5 | 300 | 2.58 | 29.0 | 7.4 | 9.3 | 26 | 0.2 | 6.3 | 0.4 | 23 | 0.34 | 0.054 | 28 |
| 1240087 | Soil | 0.8 | 28.6 | 23.7 | 66 | 0.2 | 23.7 | 10.5 | 592 | 2.56 | 26.9 | 3.0 | 7.0 | 34 | 0.2 | 5.1 | 0.4 | 24 | 0.51 | 0.054 | 23 |
| 1240088 | Soil | 0.5 | 20.4 | 14.1 | 51 | 0.1 | 18.7 | 10.7 | 332 | 2.00 | 8.1 | 27.2 | 5.5 | 35 | 0.1 | 1.7 | 0.2 | 21 | 0.41 | 0.053 | 23 |
| 1240089 | Soil | 0.7 | 16.3 | 14.1 | 42 | 0.1 | 18.3 | 13.8 | 784 | 2.64 | 13.7 | 1.8 | 4.3 | 61 | <0.1 | 1.7 | 0.2 | 19 | 0.56 | 0.051 | 18 |
| 1240090 | Soil | 0.7 | 29.3 | 18.4 | 59 | 0.2 | 27.7 | 11.5 | 723 | 2.34 | 18.7 | 8.1 | 6.6 | 30 | 0.2 | 3.8 | 0.3 | 25 | 0.44 | 0.056 | 22 |
| 1240091 | Soil | 0.9 | 31.4 | 23.2 | 72 | 0.2 | 26.9 | 9.4 | 343 | 2.69 | 26.0 | 3.0 | 10.0 | 23 | 0.2 | 6.1 | 0.4 | 26 | 0.29 | 0.056 | 27 |
| 1240092 | Soil | 0.8 | 30.1 | 24.6 | 73 | 0.2 | 25.4 | 10.7 | 450 | 2.81 | 32.9 | 4.5 | 8.8 | 30 | 0.3 | 5.4 | 0.4 | 24 | 0.42 | 0.059 | 26 |
| 1240093 | Soil | 1.2 | 33.0 | 25.8 | 82 | 0.2 | 30.4 | 11.2 | 491 | 2.69 | 47.3 | 4.1 | 9.7 | 26 | 0.3 | 5.0 | 0.3 | 24 | 0.51 | 0.062 | 25 |
| 1241063 | Soil | 0.8 | 13.4 | 13.4 | 39 | <0.1 | 15.9 | 6.5 | 144 | 1.96 | 14.0 | 1.6 | 5.9 | 17 | <0.1 | 1.9 | 0.2 | 27 | 0.17 | 0.012 | 21 |
| 1241064 | Soil | 1.3 | 23.5 | 25.4 | 55 | <0.1 | 27.2 | 11.6 | 206 | 2.99 | 6.9 | <0.5 | 12.9 | 40 | 0.1 | 2.0 | 0.3 | 20 | 0.45 | 0.020 | 42 |
| 1241065 | Soil | 0.8 | 10.8 | 13.4 | 40 | <0.1 | 15.2 | 6.2 | 173 | 2.18 | 8.6 | <0.5 | 3.9 | 10 | <0.1 | 1.3 | 0.2 | 34 | 0.12 | 0.019 | 17 |
| 1241066 | Soil | 1.0 | 27.3 | 17.3 | 57 | <0.1 | 27.8 | 12.3 | 464 | 2.76 | 10.0 | <0.5 | 8.0 | 41 | 0.3 | 3.0 | 0.2 | 27 | 0.48 | 0.024 | 24 |
| 1241067 | Soil | 0.7 | 20.7 | 14.8 | 55 | <0.1 | 24.1 | 10.1 | 365 | 2.49 | 15.0 | 1.7 | 6.9 | 39 | <0.1 | 1.9 | 0.2 | 36 | 0.40 | 0.027 | 18 |
| 1241068 | Soil | 0.8 | 31.1 | 15.7 | 67 | <0.1 | 28.6 | 10.0 | 288 | 2.83 | 8.4 | 2.1 | 11.4 | 32 | <0.1 | 1.6 | 0.2 | 28 | 0.34 | 0.031 | 27 |
| 1241069 | Soil | 1.1 | 26.7 | 13.9 | 56 | <0.1 | 26.2 | 10.0 | 417 | 2.63 | 7.6 | 1.1 | 7.1 | 66 | 0.2 | 2.6 | 0.2 | 40 | 0.67 | 0.024 | 20 |
| 1241070 | Soil | 0.7 | 14.6 | 10.5 | 38 | <0.1 | 16.0 | 5.6 | 152 | 1.87 | 7.2 | 1.4 | 4.9 | 10 | <0.1 | 2.1 | 0.1 | 28 | 0.11 | 0.019 | 16 |
| 1241071 | Soil | 0.8 | 16.6 | 13.5 | 38 | 0.4 | 17.0 | 13.7 | 1107 | 2.22 | 5.5 | 2.9 | 5.7 | 18 | 0.1 | 1.7 | 0.2 | 34 | 0.17 | 0.021 | 24 |
| 1241072 | Soil | 0.7 | 22.3 | 12.5 | 45 | <0.1 | 21.6 | 9.1 | 449 | 2.17 | 7.9 | 3.5 | 5.8 | 39 | 0.1 | 1.9 | 0.2 | 35 | 0.39 | 0.022 | 19 |
| 1241073 | Soil | 0.7 | 26.4 | 12.5 | 47 | <0.1 | 22.1 | 8.4 | 212 | 2.25 | 9.0 | 3.1 | 7.4 | 10 | <0.1 | 2.8 | 0.2 | 34 | 0.09 | 0.016 | 21 |
| 1241074 | Soil | 0.7 | 30.4 | 16.5 | 49 | <0.1 | 23.6 | 9.5 | 228 | 2.22 | 7.6 | 4.2 | 6.3 | 21 | <0.1 | 0.7 | 0.1 | 45 | 0.22 | 0.038 | 18 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1240076 | Soil | 21 | 0.38 | 140 | 0.017 | 2 | 0.95 | 0.011 | 0.09 | 0.3 | 0.07 | 2.6 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240077 | Soil | 22 | 0.39 | 209 | 0.013 | <1 | 1.07 | 0.007 | 0.07 | 0.3 | 0.07 | 2.8 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1240078 | Soil | 21 | 0.40 | 208 | 0.019 | <1 | 1.00 | 0.007 | 0.05 | 0.3 | 0.06 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240079 | Soil | 17 | 0.39 | 197 | 0.009 | <1 | 0.94 | 0.006 | 0.04 | 0.2 | 0.04 | 1.6 | <0.1 | <0.05 | 3 | 0.8 | 1 | <0.2 |
| 1240080 | Soil | 16 | 0.34 | 203 | 0.009 | <1 | 0.88 | 0.005 | 0.03 | 0.3 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1240081 | Soil | 20 | 0.39 | 118 | 0.014 | 1 | 0.99 | 0.008 | 0.08 | 0.3 | 0.09 | 2.6 | <0.1 | <0.05 | 3 | 0.5 | 1 | <0.2 |
| 1240082 | Soil | 20 | 0.33 | 295 | 0.021 | <1 | 1.05 | 0.007 | 0.05 | 0.3 | 0.04 | 3.2 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1240083 | Soil | 18 | 0.33 | 98 | 0.018 | <1 | 0.84 | 0.005 | 0.06 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240084 | Soil | 19 | 0.48 | 167 | 0.022 | <1 | 0.93 | 0.009 | 0.08 | 0.5 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240085 | Soil | 19 | 0.39 | 130 | 0.018 | <1 | 0.91 | 0.010 | 0.07 | 0.6 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1240086 | Soil | 19 | 0.34 | 130 | 0.016 | <1 | 0.87 | 0.006 | 0.07 | 0.3 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240087 | Soil | 20 | 0.34 | 189 | 0.014 | <1 | 0.97 | 0.008 | 0.07 | 0.3 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240088 | Soil | 17 | 0.36 | 197 | 0.009 | <1 | 0.95 | 0.008 | 0.04 | 0.4 | 0.03 | 1.8 | <0.1 | <0.05 | 3 | 0.7 | <1 | <0.2 |
| 1240089 | Soil | 15 | 0.33 | 209 | 0.008 | <1 | 0.84 | 0.006 | 0.03 | 0.1 | 0.04 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240090 | Soil | 19 | 0.36 | 276 | 0.013 | <1 | 0.98 | 0.007 | 0.05 | 0.3 | 0.05 | 2.4 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1240091 | Soil | 21 | 0.38 | 159 | 0.019 | <1 | 1.03 | 0.007 | 0.08 | 0.4 | 0.07 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240092 | Soil | 20 | 0.37 | 161 | 0.016 | <1 | 0.99 | 0.007 | 0.08 | 0.3 | 0.07 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240093 | Soil | 21 | 0.54 | 161 | 0.023 | <1 | 0.99 | 0.009 | 0.10 | 0.7 | 0.04 | 2.8 | 0.1 | <0.05 | 3 | 0.8 | <1 | <0.2 |
| 1241063 | Soil | 17 | 0.31 | 111 | 0.009 | 2 | 1.07 | 0.003 | 0.09 | 0.2 | 0.02 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241064 | Soil | 18 | 0.44 | 117 | 0.002 | 2 | 1.41 | 0.003 | 0.13 | <0.1 | 0.02 | 1.5 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241065 | Soil | 19 | 0.25 | 98 | 0.009 | 1 | 1.20 | 0.003 | 0.07 | 0.2 | 0.01 | 1.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241066 | Soil | 18 | 0.29 | 205 | 0.009 | 1 | 1.02 | 0.005 | 0.12 | 0.2 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241067 | Soil | 22 | 0.39 | 214 | 0.023 | 1 | 1.19 | 0.007 | 0.05 | 0.2 | 0.04 | 3.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241068 | Soil | 24 | 0.53 | 237 | 0.013 | <1 | 1.43 | 0.005 | 0.05 | 0.1 | 0.03 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241069 | Soil | 29 | 0.43 | 259 | 0.022 | 1 | 1.49 | 0.007 | 0.09 | 0.2 | 0.04 | 3.3 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1241070 | Soil | 19 | 0.29 | 134 | 0.016 | 2 | 0.92 | 0.004 | 0.05 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241071 | Soil | 20 | 0.28 | 313 | 0.014 | 1 | 1.10 | 0.005 | 0.08 | 0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241072 | Soil | 25 | 0.35 | 240 | 0.015 | <1 | 1.16 | 0.007 | 0.06 | 0.2 | 0.03 | 3.3 | <0.1 | <0.05 | 4 | 0.7 | <1 | <0.2 |
| 1241073 | Soil | 27 | 0.35 | 205 | 0.020 | 1 | 1.07 | 0.004 | 0.05 | 0.1 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1241074 | Soil | 34 | 0.47 | 194 | 0.045 | <1 | 1.03 | 0.005 | 0.04 | 0.1 | 0.03 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241075 | Soil | 1.1 | 25.7 | 17.0 | 55 | 0.2 | 24.5 | 9.4 | 642 | 2.65 | 10.3 | 2.1 | 5.6 | 10 | <0.1 | 1.9 | 0.2 | 38 | 0.08 | 0.045 | 18 |
| 1241076 | Soil | 0.9 | 26.7 | 110.7 | 174 | 0.2 | 27.4 | 12.6 | 325 | 2.99 | 8.0 | 1.5 | 4.1 | 32 | 0.3 | 0.9 | 0.2 | 79 | 0.15 | 0.046 | 20 |
| 1241077 | Soil | 0.8 | 50.1 | 17.7 | 55 | <0.1 | 31.1 | 12.5 | 252 | 3.05 | 6.4 | 8.5 | 4.8 | 30 | 0.1 | 0.7 | 0.1 | 88 | 0.20 | 0.030 | 15 |
| 1241078 | Soil | 0.6 | 56.3 | 12.7 | 48 | 0.1 | 36.2 | 14.2 | 230 | 2.65 | 6.9 | 4.6 | 4.3 | 32 | 0.1 | 0.6 | 0.1 | 84 | 0.28 | 0.041 | 15 |
| 1241079 | Soil | 1.1 | 28.5 | 19.5 | 65 | <0.1 | 27.7 | 11.1 | 233 | 2.92 | 9.3 | 2.3 | 10.0 | 11 | <0.1 | 1.2 | 0.2 | 37 | 0.07 | 0.023 | 31 |
| 1241080 | Soil | 0.9 | 32.2 | 15.6 | 60 | <0.1 | 26.3 | 10.7 | 249 | 2.66 | 8.5 | 6.1 | 9.4 | 16 | 0.1 | 1.0 | 0.2 | 36 | 0.14 | 0.028 | 27 |
| 1241081 | Soil | 1.1 | 27.8 | 12.3 | 55 | <0.1 | 34.4 | 12.3 | 294 | 3.04 | 5.6 | <0.5 | 9.8 | 14 | <0.1 | 5.5 | 0.2 | 36 | 0.13 | 0.047 | 48 |
| 1241082 | Soil | 0.8 | 37.2 | 12.5 | 54 | <0.1 | 43.6 | 14.3 | 350 | 3.46 | 8.6 | 7.1 | 13.0 | 10 | <0.1 | 6.8 | 0.2 | 42 | 0.10 | 0.027 | 48 |
| 1241083 | Soil | 1.2 | 16.2 | 14.1 | 44 | 0.1 | 18.3 | 7.8 | 224 | 2.49 | 11.0 | 0.8 | 5.6 | 10 | <0.1 | 1.0 | 0.2 | 45 | 0.08 | 0.032 | 22 |
| 1241084 | Soil | 0.9 | 17.8 | 12.5 | 49 | <0.1 | 19.6 | 7.7 | 237 | 2.41 | 10.2 | 1.7 | 5.0 | 10 | <0.1 | 1.2 | 0.1 | 38 | 0.09 | 0.033 | 18 |
| 1241085 | Soil | 0.7 | 14.6 | 11.0 | 33 | <0.1 | 13.0 | 6.2 | 159 | 2.06 | 7.1 | 1.3 | 5.4 | 9 | <0.1 | 2.5 | 0.1 | 29 | 0.07 | 0.026 | 22 |
| 1241086 | Soil | 0.7 | 14.5 | 11.5 | 37 | 0.1 | 14.5 | 5.2 | 153 | 1.75 | 6.9 | 1.0 | 4.4 | 11 | <0.1 | 1.2 | 0.1 | 30 | 0.13 | 0.027 | 16 |
| 1241087 | Soil | 1.2 | 20.0 | 15.9 | 52 | 0.1 | 19.9 | 7.8 | 234 | 2.57 | 8.3 | 1.2 | 6.1 | 10 | <0.1 | 1.3 | 0.2 | 40 | 0.07 | 0.027 | 24 |
| 1241088 | Soil | 1.1 | 10.2 | 13.7 | 44 | <0.1 | 14.2 | 6.7 | 227 | 2.27 | 9.1 | 2.4 | 4.1 | 10 | <0.1 | 0.7 | 0.2 | 48 | 0.09 | 0.026 | 13 |
| 1241089 | Soil | 0.7 | 9.2 | 11.3 | 37 | <0.1 | 11.3 | 7.5 | 649 | 1.74 | 5.0 | 1.5 | 3.5 | 17 | 0.2 | 0.6 | 0.3 | 31 | 0.19 | 0.027 | 16 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 11, 2012



# CERTIFICATE OF ANALYSIS DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241075 | Soil | 25 | 0.37 | 158 | 0.015 | 1 | 1.32 | 0.004 | 0.08 | 0.2 | 0.03 | 2.2 | <0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| 1241076 | Soil | 54 | 0.66 | 152 | 0.067 | <1 | 1.58 | 0.004 | 0.06 | 0.1 | 0.02 | 2.7 | 0.1 | <0.05 | 6 | <0.5 | 2 | 0.2 |
| 1241077 | Soil | 58 | 0.71 | 127 | 0.111 | <1 | 1.45 | 0.005 | 0.06 | 0.1 | 0.02 | 2.8 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1241078 | Soil | 66 | 0.71 | 200 | 0.118 | <1 | 1.20 | 0.007 | 0.05 | 0.2 | 0.03 | 2.8 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1241079 | Soil | 37 | 0.51 | 153 | 0.015 | <1 | 1.49 | 0.004 | 0.05 | 0.1 | 0.03 | 2.9 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1241080 | Soil | 28 | 0.48 | 205 | 0.025 | <1 | 1.19 | 0.005 | 0.05 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241081 | Soil | 38 | 0.38 | 115 | 0.005 | 1 | 0.86 | 0.002 | 0.09 | <0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241082 | Soil | 46 | 0.52 | 97 | 0.005 | 2 | 1.17 | 0.002 | 0.10 | <0.1 | <0.01 | 3.0 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1241083 | Soil | 24 | 0.36 | 198 | 0.016 | <1 | 1.36 | 0.004 | 0.06 | 0.2 | 0.02 | 2.4 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1241084 | Soil | 25 | 0.38 | 180 | 0.013 | <1 | 1.33 | 0.004 | 0.05 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241085 | Soil | 13 | 0.15 | 91 | 0.013 | 1 | 0.71 | 0.003 | 0.08 | 0.1 | 0.01 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241086 | Soil | 17 | 0.27 | 178 | 0.014 | <1 | 0.93 | 0.004 | 0.06 | 0.1 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1241087 | Soil | 25 | 0.36 | 192 | 0.012 | <1 | 1.30 | 0.004 | 0.07 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 5 | <0.5 | 2 | <0.2 |
| 1241088 | Soil | 24 | 0.31 | 128 | 0.022 | <1 | 1.34 | 0.004 | 0.05 | 0.2 | 0.02 | 2.0 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1241089 | Soil | 16 | 0.23 | 241 | 0.017 | <1 | 0.87 | 0.006 | 0.07 | 0.2 | 0.02 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 11, 2012



# QUALITY CONTROL REPORT DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1239876 | Soil | 1.0 | 28.0 | 17.7 | 53 | 0.1 | 23.5 | 10.0 | 244 | 2.42 | 7.8 | 1.2 | 7.2 | 14 | <0.1 | 0.5 | 0.2 | 28 | 0.14 | 0.039 | 28 |
| REP 1239876 | QC | 1.0 | 27.5 | 17.6 | 54 | 0.1 | 23.5 | 10.0 | 244 | 2.40 | 7.6 | 2.3 | 7.3 | 15 | <0.1 | 0.5 | 0.3 | 29 | 0.15 | 0.040 | 29 |
| 1239893 | Soil | 0.8 | 20.1 | 15.7 | 53 | 0.1 | 20.3 | 8.2 | 219 | 2.45 | 8.2 | 1.6 | 4.2 | 12 | 0.1 | 3.6 | 0.2 | 36 | 0.10 | 0.035 | 18 |
| REP 1239893 | QC | 0.8 | 20.4 | 15.8 | 51 | 0.1 | 20.4 | 8.0 | 209 | 2.37 | 8.1 | 1.2 | 4.3 | 12 | <0.1 | 3.7 | 0.2 | 35 | 0.10 | 0.036 | 19 |
| 1240291 | Soil | 0.8 | 31.7 | 17.8 | 62 | 0.1 | 29.8 | 12.0 | 250 | 3.21 | 12.8 | 1.0 | 12.9 | 16 | <0.1 | 10.0 | 0.2 | 26 | 0.15 | 0.028 | 40 |
| REP 1240291 | QC | 0.9 | 32.6 | 17.5 | 64 | <0.1 | 30.2 | 11.8 | 255 | 3.28 | 13.0 | 3.9 | 13.0 | 16 | <0.1 | 10.0 | 0.2 | 27 | 0.16 | 0.027 | 41 |
| 1240308 | Soil | 0.8 | 35.6 | 33.8 | 73 | 0.2 | 30.1 | 11.6 | 444 | 2.92 | 37.7 | 3.9 | 9.3 | 69 | 0.3 | 6.4 | 0.5 | 25 | 0.76 | 0.049 | 32 |
| REP 1240308 | QC | 1.0 | 34.5 | 33.8 | 69 | 0.2 | 28.3 | 11.0 | 412 | 2.75 | 37.5 | 3.7 | 9.3 | 69 | 0.2 | 6.1 | 0.6 | 24 | 0.76 | 0.050 | 31 |
| 1240062 | Soil | 0.7 | 37.1 | 20.8 | 77 | 0.1 | 41.0 | 19.3 | 459 | 3.03 | 14.5 | 3.5 | 10.3 | 19 | 0.1 | 4.2 | 0.3 | 22 | 0.17 | 0.047 | 33 |
| REP 1240062 | QC | 0.7 | 34.8 | 21.2 | 75 | 0.1 | 41.1 | 18.7 | 457 | 3.01 | 14.8 | 3.6 | 10.7 | 18 | 0.1 | 4.0 | 0.3 | 21 | 0.17 | 0.049 | 34 |
| 1240079 | Soil | 0.6 | 22.0 | 15.2 | 60 | <0.1 | 24.5 | 14.4 | 755 | 2.47 | 10.7 | 1.6 | 6.2 | 50 | 0.2 | 2.3 | 0.2 | 20 | 0.47 | 0.050 | 25 |
| REP 1240079 | QC | 0.6 | 23.0 | 15.0 | 59 | 0.1 | 24.6 | 14.3 | 781 | 2.56 | 11.1 | 1.4 | 6.0 | 49 | 0.2 | 2.1 | 0.2 | 20 | 0.48 | 0.046 | 25 |
| 1241088 | Soil | 1.1 | 10.2 | 13.7 | 44 | <0.1 | 14.2 | 6.7 | 227 | 2.27 | 9.1 | 2.4 | 4.1 | 10 | <0.1 | 0.7 | 0.2 | 48 | 0.09 | 0.026 | 13 |
| REP 1241088 | QC | 1.0 | 10.3 | 13.9 | 44 | <0.1 | 14.8 | 6.8 | 235 | 2.37 | 9.2 | <0.5 | 4.0 | 11 | <0.1 | 0.7 | 0.2 | 51 | 0.09 | 0.025 | 13 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.4 | 107.5 | 127.6 | 307 | 1.8 | 39.2 | 7.4 | 599 | 2.27 | 26.8 | 114.8 | 6.5 | 82 | 2.3 | 6.1 | 7.3 | 41 | 0.69 | 0.089 | 13 |
| STD DS9 | Standard | 14.2 | 119.1 | 130.4 | 332 | 1.8 | 43.6 | 8.0 | 648 | 2.50 | 28.1 | 126.3 | 7.6 | 86 | 2.3 | 6.0 | 7.0 | 48 | 0.81 | 0.084 | 17 |
| STD DS9 | Standard | 13.0 | 110.3 | 121.7 | 308 | 1.8 | 39.5 | 7.6 | 572 | 2.28 | 26.0 | 109.3 | 6.8 | 76 | 2.8 | 6.2 | 6.6 | 44 | 0.72 | 0.080 | 13 |
| STD DS9 | Standard | 14.2 | 107.1 | 127.5 | 292 | 1.9 | 40.7 | 7.7 | 554 | 2.27 | 24.5 | 119.3 | 7.4 | 76 | 2.4 | 6.0 | 6.7 | 39 | 0.71 | 0.081 | 14 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Project: MQ
Report Date: July 11, 2012



# QUALITY CONTROL REPORT DAW12000066.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1239876 | Soil | 20 | 0.39 | 185 | 0.010 | 1 | 1.24 | 0.004 | 0.03 | 0.2 | 0.06 | 1.9 | <0.1 | <0.05 | 4 | 0.6 | <1 | <0.2 |
| REP 1239876 | QC | 20 | 0.39 | 187 | 0.011 | 1 | 1.26 | 0.005 | 0.04 | 0.2 | 0.04 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1239893 | Soil | 21 | 0.34 | 105 | 0.018 | <1 | 1.06 | 0.005 | 0.08 | 0.2 | 0.04 | 1.7 | <0.1 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| REP 1239893 | QC | 20 | 0.35 | 105 | 0.019 | <1 | 1.10 | 0.004 | 0.08 | 0.1 | 0.03 | 1.8 | <0.1 | <0.05 | 4 | <0.5 | 1 | <0.2 |
| 1240291 | Soil | 16 | 0.25 | 125 | 0.007 | <1 | 0.94 | 0.003 | 0.14 | 0.1 | 0.01 | 1.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1240291 | QC | 17 | 0.25 | 128 | 0.008 | <1 | 0.98 | 0.003 | 0.15 | <0.1 | 0.01 | 1.7 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240308 | Soil | 22 | 0.39 | 169 | 0.016 | 2 | 1.07 | 0.008 | 0.10 | 0.4 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 11 | <0.2 |
| REP 1240308 | QC | 21 | 0.37 | 170 | 0.016 | <1 | 1.07 | 0.008 | 0.09 | 0.3 | 0.06 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | 10 | <0.2 |
| 1240062 | Soil | 21 | 0.50 | 173 | 0.008 | <1 | 1.27 | 0.005 | 0.05 | 0.2 | 0.05 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| REP 1240062 | QC | 22 | 0.51 | 180 | 0.008 | <1 | 1.27 | 0.005 | 0.06 | 0.2 | 0.05 | 2.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240079 | Soil | 17 | 0.39 | 197 | 0.009 | <1 | 0.94 | 0.006 | 0.04 | 0.2 | 0.04 | 1.6 | <0.1 | <0.05 | 3 | 0.8 | 1 | <0.2 |
| REP 1240079 | QC | 17 | 0.39 | 201 | 0.009 | <1 | 0.95 | 0.006 | 0.04 | 0.2 | 0.06 | 1.8 | <0.1 | <0.05 | 3 | 1.0 | 1 | <0.2 |
| 1241088 | Soil | 24 | 0.31 | 128 | 0.022 | <1 | 1.34 | 0.004 | 0.05 | 0.2 | 0.02 | 2.0 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| REP 1241088 | QC | 25 | 0.31 | 129 | 0.023 | <1 | 1.33 | 0.004 | 0.05 | 0.2 | 0.02 | 2.1 | 0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 121 | 0.66 | 305 | 0.111 | 2 | 0.99 | 0.103 | 0.38 | 3.0 | 0.18 | 3.0 | 5.5 | 0.16 | 5 | 6.3 | 7 | 5.4 |
| STD DS9 | Standard | 133 | 0.68 | 330 | 0.146 | 3 | 1.05 | 0.101 | 0.38 | 3.1 | 0.19 | 2.8 | 5.7 | 0.17 | 5 | 6.1 | 7 | 5.4 |
| STD DS9 | Standard | 123 | 0.63 | 302 | 0.121 | 2 | 0.94 | 0.095 | 0.37 | 3.0 | 0.20 | 2.6 | 5.4 | 0.18 | 5 | 4.7 | 7 | 5.6 |
| STD DS9 | Standard | 120 | 0.59 | 299 | 0.121 | 3 | 0.94 | 0.101 | 0.38 | 2.9 | 0.21 | 2.5 | 5.2 | 0.16 | 4 | 5.0 | 6 | 5.2 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: July 04, 2012
Report Date: August 08, 2012
Page: 1 of 7

# CERTIFICATE OF ANALYSIS DAW12000090.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Soils 4
P.O. Number
Number of Samples: 168

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 168 | Dry at 60C | | | DAW |
| SS80 | 168 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 168 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 168 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241090 | Soil | | 0.7 | 18.7 | 34.9 | 78 | 0.2 | 18.5 | 7.4 | 198 | 2.01 | 22.6 | 2.3 | 5.7 | 8 | 0.3 | 5.8 | 0.2 | 12 | 0.08 | 0.034 | 25 |
| 1241091 | Soil | | 0.8 | 23.7 | 125.8 | 89 | 0.3 | 23.8 | 9.6 | 181 | 2.47 | 38.4 | 3.1 | 8.4 | 7 | 0.4 | 61.2 | 0.3 | 7 | 0.05 | 0.028 | 39 |
| 1241092 | Soil | | 0.8 | 31.3 | 48.7 | 100 | 0.4 | 32.0 | 15.9 | 379 | 3.14 | 21.4 | 2.5 | 14.8 | 8 | 0.4 | 15.4 | 0.4 | 3 | 0.05 | 0.031 | 41 |
| 1241093 | Soil | | 0.8 | 25.5 | 33.1 | 72 | 0.4 | 24.6 | 11.4 | 309 | 2.66 | 16.2 | 1.9 | 9.8 | 7 | 0.3 | 9.3 | 0.3 | 5 | 0.05 | 0.028 | 41 |
| 1241094 | Soil | | 0.9 | 23.5 | 17.0 | 65 | 0.2 | 21.7 | 10.5 | 251 | 2.24 | 9.0 | 2.1 | 7.6 | 12 | 0.2 | 2.9 | 0.2 | 16 | 0.15 | 0.042 | 28 |
| 1241095 | Soil | | 0.8 | 21.4 | 19.4 | 70 | 0.2 | 21.4 | 9.1 | 226 | 2.22 | 9.4 | 3.0 | 4.3 | 15 | 0.3 | 2.9 | 0.2 | 19 | 0.19 | 0.042 | 24 |
| 1241096 | Soil | | 0.9 | 22.9 | 23.3 | 73 | 0.3 | 21.1 | 8.9 | 219 | 2.51 | 11.6 | 2.3 | 4.9 | 13 | 0.3 | 3.5 | 0.2 | 21 | 0.15 | 0.038 | 24 |
| 1241097 | Soil | | 0.8 | 22.8 | 23.6 | 70 | 0.2 | 20.9 | 10.2 | 283 | 2.33 | 13.3 | 2.2 | 7.8 | 10 | 0.2 | 4.4 | 0.2 | 15 | 0.12 | 0.037 | 30 |
| 1241098 | Soil | | 0.8 | 21.3 | 24.1 | 75 | 0.3 | 22.4 | 9.5 | 267 | 2.12 | 12.0 | 2.1 | 6.7 | 13 | 0.3 | 4.3 | 0.3 | 15 | 0.17 | 0.038 | 28 |
| 1241099 | Soil | | 0.9 | 25.4 | 24.8 | 74 | 0.3 | 25.8 | 10.2 | 270 | 2.53 | 13.6 | 3.0 | 7.6 | 13 | 0.2 | 4.6 | 0.3 | 12 | 0.16 | 0.037 | 35 |
| 1241100 | Soil | | 1.5 | 32.7 | 103.7 | 101 | 0.5 | 32.2 | 51.5 | 2028 | 3.66 | 27.4 | 4.1 | 5.5 | 15 | 0.4 | 12.3 | 0.5 | 17 | 0.14 | 0.051 | 32 |
| 1241101 | Soil | | 0.8 | 28.9 | 489.2 | 212 | 6.3 | 21.2 | 8.6 | 249 | 2.61 | 194.9 | 12.7 | 7.9 | 9 | 1.4 | 272.0 | 1.6 | 9 | 0.09 | 0.034 | 27 |
| 1241102 | Soil | | 0.7 | 23.4 | 122.2 | 83 | 0.9 | 17.5 | 7.4 | 245 | 2.16 | 30.6 | 6.7 | 4.4 | 9 | 0.5 | 40.6 | 0.4 | 13 | 0.10 | 0.033 | 25 |
| 1241103 | Soil | | 0.7 | 23.7 | 73.1 | 93 | 1.1 | 16.2 | 9.3 | 346 | 2.31 | 22.3 | 3.7 | 4.4 | 7 | 0.4 | 23.6 | 0.6 | 11 | 0.08 | 0.034 | 26 |
| 1241104 | Soil | | 0.6 | 29.0 | 162.5 | 87 | 1.0 | 21.1 | 10.4 | 479 | 2.61 | 86.7 | 3.5 | 6.1 | 15 | 0.4 | 66.9 | 1.5 | 10 | 0.17 | 0.038 | 27 |
| 1241105 | Soil | | 0.9 | 22.6 | 69.0 | 79 | 0.4 | 18.9 | 7.7 | 203 | 2.75 | 56.7 | 2.4 | 6.3 | 6 | 0.3 | 40.9 | 1.1 | 11 | 0.04 | 0.033 | 28 |
| 1241106 | Soil | | 0.6 | 26.7 | 72.5 | 105 | 0.2 | 33.2 | 14.1 | 453 | 2.75 | 44.2 | 2.0 | 11.9 | 6 | 0.5 | 48.3 | 0.3 | <2 | 0.02 | 0.022 | 43 |
| 1241107 | Soil | | 0.6 | 27.9 | 33.4 | 90 | 0.2 | 33.6 | 13.0 | 448 | 2.72 | 27.7 | 1.6 | 13.3 | 6 | 0.5 | 17.1 | 0.4 | 5 | 0.03 | 0.021 | 44 |
| 1241108 | Soil | | 0.8 | 22.5 | 51.4 | 73 | 0.4 | 19.2 | 8.1 | 212 | 2.54 | 45.8 | 3.4 | 6.2 | 6 | 0.3 | 25.8 | 0.7 | 10 | 0.03 | 0.026 | 30 |
| 1241109 | Soil | | 0.8 | 23.5 | 62.2 | 78 | 0.4 | 20.2 | 8.3 | 210 | 2.50 | 53.9 | 2.8 | 6.8 | 7 | 0.3 | 29.7 | 0.9 | 10 | 0.04 | 0.027 | 28 |
| 1241110 | Soil | | 0.8 | 23.1 | 71.5 | 77 | 0.4 | 16.7 | 7.0 | 178 | 2.71 | 53.8 | 2.7 | 5.9 | 5 | 0.3 | 40.3 | 0.9 | 9 | 0.03 | 0.028 | 30 |
| 1241111 | Soil | | 0.6 | 54.6 | 114.5 | 46 | 1.0 | 9.6 | 3.5 | 99 | 1.87 | 82.6 | 2.6 | 1.0 | 7 | 0.3 | 30.8 | 1.5 | 13 | 0.06 | 0.045 | 18 |
| 1241112 | Soil | | 0.8 | 23.0 | 56.6 | 71 | 0.9 | 17.1 | 6.2 | 137 | 2.31 | 40.7 | 3.2 | 3.0 | 8 | 0.4 | 25.2 | 0.7 | 15 | 0.06 | 0.040 | 23 |
| 1241113 | Soil | | 0.9 | 22.5 | 83.3 | 66 | 0.6 | 17.6 | 7.3 | 191 | 2.36 | 48.6 | 3.2 | 6.3 | 10 | 0.2 | 34.4 | 1.1 | 18 | 0.11 | 0.036 | 24 |
| 1241114 | Soil | | 0.7 | 28.8 | 109.7 | 103 | 0.7 | 23.7 | 10.1 | 279 | 2.91 | 60.5 | 2.2 | 10.4 | 11 | 0.5 | 44.2 | 1.2 | 10 | 0.11 | 0.033 | 32 |
| 1241115 | Soil | | 0.9 | 22.3 | 56.5 | 82 | 0.4 | 22.4 | 10.4 | 307 | 2.51 | 33.0 | 5.0 | 5.4 | 8 | 0.4 | 16.1 | 0.6 | 16 | 0.08 | 0.037 | 24 |
| 1240094 | Soil | | 1.0 | 28.2 | 23.6 | 74 | 0.2 | 26.0 | 11.7 | 458 | 2.60 | 46.5 | 4.4 | 8.1 | 16 | 0.2 | 5.7 | 0.3 | 17 | 0.24 | 0.039 | 23 |
| 1240095 | Soil | | 0.7 | 23.3 | 17.0 | 87 | 0.2 | 25.2 | 11.4 | 653 | 2.30 | 32.5 | 10.0 | 4.4 | 78 | 0.4 | 3.5 | 0.3 | 18 | 0.85 | 0.055 | 18 |
| 1240096 | Soil | | 1.1 | 34.9 | 26.8 | 94 | 0.2 | 35.0 | 14.3 | 486 | 3.31 | 60.7 | 4.8 | 10.1 | 23 | 0.2 | 6.6 | 0.5 | 24 | 0.29 | 0.048 | 27 |
| 1240097 | Soil | | 1.1 | 38.1 | 27.1 | 94 | 0.2 | 35.0 | 15.9 | 582 | 3.22 | 70.8 | 5.5 | 10.8 | 33 | 0.3 | 7.1 | 0.5 | 27 | 0.58 | 0.054 | 26 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241090 | Soil | | 13 | 0.20 | 87 | 0.010 | <1 | 0.59 | 0.003 | 0.03 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241091 | Soil | | 11 | 0.12 | 55 | 0.003 | <1 | 0.52 | 0.002 | 0.03 | <0.1 | 0.03 | 1.1 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241092 | Soil | | 12 | 0.25 | 25 | 0.003 | <1 | 0.57 | 0.002 | 0.04 | <0.1 | 0.02 | 1.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241093 | Soil | | 13 | 0.25 | 62 | 0.003 | <1 | 0.69 | 0.002 | 0.03 | <0.1 | 0.03 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241094 | Soil | | 17 | 0.32 | 208 | 0.014 | 1 | 0.79 | 0.005 | 0.03 | 0.2 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241095 | Soil | | 18 | 0.35 | 201 | 0.011 | 1 | 0.90 | 0.005 | 0.03 | 0.2 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241096 | Soil | | 19 | 0.37 | 201 | 0.011 | <1 | 0.99 | 0.005 | 0.03 | 0.2 | 0.03 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241097 | Soil | | 18 | 0.34 | 146 | 0.010 | <1 | 0.94 | 0.004 | 0.03 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241098 | Soil | | 15 | 0.31 | 128 | 0.008 | <1 | 0.79 | 0.004 | 0.04 | 0.1 | 0.03 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241099 | Soil | | 16 | 0.29 | 109 | 0.007 | <1 | 0.71 | 0.003 | 0.03 | 0.1 | 0.02 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241100 | Soil | | 19 | 0.28 | 195 | 0.003 | <1 | 1.09 | 0.004 | 0.06 | 0.1 | 0.04 | 2.0 | 0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241101 | Soil | | 15 | 0.18 | 60 | 0.005 | <1 | 0.54 | 0.003 | 0.03 | 0.1 | 0.07 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1241102 | Soil | | 15 | 0.21 | 122 | 0.005 | <1 | 0.73 | 0.003 | 0.03 | 0.2 | 0.05 | 1.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241103 | Soil | | 13 | 0.17 | 78 | 0.005 | <1 | 0.68 | 0.003 | 0.03 | 0.2 | 0.06 | 1.2 | 0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241104 | Soil | | 13 | 0.21 | 129 | 0.006 | <1 | 0.62 | 0.003 | 0.03 | <0.1 | 0.04 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241105 | Soil | | 15 | 0.23 | 64 | 0.007 | <1 | 0.72 | 0.002 | 0.03 | 0.1 | 0.03 | 1.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241106 | Soil | | 9 | 0.07 | 38 | 0.002 | <1 | 0.35 | 0.001 | 0.03 | <0.1 | 0.02 | 1.2 | <0.1 | <0.05 | 1 | <0.5 | 1 | <0.2 |
| 1241107 | Soil | | 11 | 0.12 | 41 | 0.003 | <1 | 0.52 | 0.002 | 0.02 | <0.1 | 0.02 | 1.2 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241108 | Soil | | 15 | 0.23 | 76 | 0.006 | <1 | 0.72 | 0.002 | 0.04 | 0.1 | 0.03 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241109 | Soil | | 15 | 0.24 | 67 | 0.008 | <1 | 0.75 | 0.002 | 0.03 | 0.2 | 0.03 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241110 | Soil | | 15 | 0.24 | 53 | 0.005 | <1 | 0.74 | 0.002 | 0.03 | 0.1 | 0.03 | 1.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241111 | Soil | | 14 | 0.20 | 102 | 0.005 | <1 | 0.68 | 0.003 | 0.02 | 0.2 | 0.05 | 0.9 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241112 | Soil | | 16 | 0.24 | 119 | 0.007 | <1 | 0.84 | 0.003 | 0.03 | 0.2 | 0.03 | 1.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241113 | Soil | | 19 | 0.30 | 133 | 0.013 | <1 | 0.84 | 0.004 | 0.03 | 0.1 | 0.04 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241114 | Soil | | 15 | 0.28 | 83 | 0.007 | <1 | 0.68 | 0.003 | 0.04 | 0.1 | 0.05 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241115 | Soil | | 17 | 0.27 | 100 | 0.014 | <1 | 0.75 | 0.003 | 0.03 | 0.1 | 0.03 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240094 | Soil | | 20 | 0.34 | 114 | 0.016 | <1 | 0.85 | 0.009 | 0.07 | 0.8 | 0.06 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240095 | Soil | | 18 | 0.39 | 156 | 0.010 | 2 | 0.83 | 0.008 | 0.06 | 0.7 | 0.05 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240096 | Soil | | 25 | 0.47 | 134 | 0.021 | 1 | 1.15 | 0.011 | 0.11 | 0.6 | 0.08 | 2.9 | 0.2 | <0.05 | 4 | <0.5 | 2 | <0.2 |
| 1240097 | Soil | | 25 | 0.56 | 166 | 0.024 | 1 | 1.12 | 0.008 | 0.13 | 0.7 | 0.08 | 3.1 | 0.2 | <0.05 | 4 | <0.5 | 1 | <0.2 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1240098 | Soil | 0.5 | 13.1 | 14.1 | 48 | <0.1 | 14.4 | 6.3 | 146 | 1.85 | 10.6 | 1.9 | 5.9 | 26 | <0.1 | 2.5 | 0.2 | 15 | 0.31 | 0.043 | 20 |
| 1240099 | Soil | 0.5 | 25.4 | 14.3 | 55 | 0.1 | 21.1 | 7.7 | 175 | 2.03 | 11.3 | 9.6 | 5.3 | 44 | 0.1 | 2.2 | 0.2 | 20 | 0.44 | 0.048 | 19 |
| 1240100 | Soil | 0.5 | 18.3 | 10.2 | 48 | <0.1 | 19.5 | 8.3 | 91 | 1.50 | 6.1 | 1.5 | 6.0 | 76 | 0.1 | 1.7 | 0.1 | 21 | 0.42 | 0.037 | 18 |
| 1237578 | Soil | 0.7 | 25.0 | 17.9 | 63 | 0.2 | 18.9 | 8.5 | 138 | 2.12 | 4.8 | 6.0 | 8.4 | 12 | 0.1 | 1.1 | 0.2 | 18 | 0.16 | 0.030 | 31 |
| 1237579 | Soil | 0.9 | 15.4 | 13.1 | 40 | 0.1 | 12.7 | 4.6 | 105 | 2.09 | 5.8 | 1.3 | 4.6 | 6 | 0.1 | 0.8 | 0.1 | 19 | 0.04 | 0.028 | 21 |
| 1237580 | Soil | 0.9 | 28.8 | 20.3 | 64 | 0.2 | 24.7 | 11.2 | 303 | 2.51 | 5.2 | 4.8 | 8.1 | 14 | 0.2 | 1.5 | 0.2 | 15 | 0.18 | 0.033 | 34 |
| 1237581 | Soil | 1.2 | 35.7 | 24.5 | 75 | 0.3 | 28.2 | 16.3 | 762 | 2.75 | 7.6 | 2.4 | 5.8 | 27 | 0.6 | 1.4 | 0.4 | 23 | 0.37 | 0.053 | 31 |
| 1237582 | Soil | 0.9 | 27.5 | 20.2 | 76 | 0.2 | 25.2 | 12.0 | 419 | 2.54 | 7.7 | 1.1 | 6.4 | 21 | 0.3 | 1.5 | 0.2 | 22 | 0.26 | 0.046 | 36 |
| 1237583 | Soil | 1.1 | 36.4 | 24.2 | 73 | 0.2 | 26.8 | 11.3 | 219 | 2.90 | 11.0 | 1.0 | 8.0 | 9 | 0.2 | 2.5 | 0.3 | 25 | 0.08 | 0.037 | 42 |
| 1237584 | Soil | 1.0 | 36.5 | 31.5 | 77 | 0.2 | 28.4 | 10.8 | 271 | 3.10 | 11.9 | 5.4 | 10.6 | 8 | 0.2 | 3.8 | 0.3 | 14 | 0.05 | 0.028 | 57 |
| 1237585 | Soil | 1.0 | 37.5 | 38.2 | 82 | 0.3 | 26.4 | 12.2 | 386 | 3.09 | 11.7 | 2.6 | 10.5 | 7 | 0.3 | 4.1 | 0.3 | 13 | 0.04 | 0.029 | 57 |
| 1237586 | Soil | 1.1 | 30.5 | 36.9 | 80 | 0.4 | 28.6 | 10.6 | 197 | 3.01 | 15.0 | 1.0 | 7.2 | 5 | 0.3 | 4.9 | 0.3 | 13 | 0.02 | 0.035 | 55 |
| 1237587 | Soil | 0.9 | 32.0 | 54.1 | 84 | 0.4 | 27.5 | 10.7 | 289 | 2.91 | 13.3 | 0.9 | 8.7 | 6 | 0.3 | 4.6 | 0.3 | 18 | 0.02 | 0.028 | 50 |
| 1237588 | Soil | 1.2 | 46.1 | 48.6 | 77 | 0.1 | 26.4 | 9.6 | 182 | 3.24 | 11.2 | 1.0 | 9.3 | 9 | 0.3 | 5.1 | 0.3 | 18 | 0.01 | 0.034 | 54 |
| 1237589 | Soil | 1.3 | 33.4 | 36.9 | 83 | 0.2 | 23.1 | 8.7 | 147 | 3.21 | 10.6 | 1.0 | 13.6 | 8 | 0.2 | 3.5 | 0.3 | 17 | 0.01 | 0.028 | 54 |
| 1241709 | Soil | 0.6 | 23.9 | 20.0 | 61 | 0.1 | 22.0 | 8.7 | 293 | 2.21 | 26.5 | 3.2 | 7.1 | 17 | 0.1 | 4.6 | 0.2 | 23 | 0.25 | 0.054 | 26 |
| 1241710 | Soil | 0.9 | 18.6 | 15.5 | 54 | <0.1 | 17.8 | 6.1 | 140 | 2.07 | 20.1 | 0.8 | 4.8 | 11 | <0.1 | 3.1 | 0.2 | 28 | 0.15 | 0.029 | 19 |
| 1241711 | Soil | 0.7 | 35.1 | 28.8 | 76 | 0.2 | 29.4 | 12.7 | 574 | 2.73 | 30.1 | 5.3 | 7.3 | 21 | 0.2 | 5.0 | 0.3 | 31 | 0.35 | 0.060 | 26 |
| 1241712 | Soil | 0.8 | 27.2 | 20.1 | 76 | 0.2 | 23.3 | 8.7 | 312 | 2.38 | 49.3 | 6.5 | 6.5 | 18 | 0.3 | 4.1 | 0.3 | 27 | 0.28 | 0.054 | 22 |
| 1241713 | Soil | 0.6 | 28.9 | 22.1 | 72 | 0.1 | 23.7 | 9.0 | 344 | 2.47 | 24.8 | 3.0 | 6.8 | 22 | 0.1 | 4.2 | 0.2 | 28 | 0.37 | 0.058 | 26 |
| 1241714 | Soil | 0.7 | 29.8 | 24.6 | 80 | 0.1 | 24.2 | 9.0 | 235 | 2.45 | 42.0 | 7.4 | 8.1 | 16 | 0.2 | 5.5 | 0.3 | 27 | 0.24 | 0.057 | 28 |
| 1241715 | Soil | 0.8 | 28.8 | 16.8 | 67 | <0.1 | 24.3 | 8.6 | 270 | 2.35 | 24.3 | 3.9 | 7.0 | 18 | 0.2 | 3.4 | 0.2 | 31 | 0.27 | 0.051 | 24 |
| 1241716 | Soil | 0.8 | 28.6 | 17.4 | 65 | 0.1 | 23.1 | 8.9 | 274 | 2.33 | 22.7 | 4.3 | 6.0 | 21 | <0.1 | 3.2 | 0.2 | 32 | 0.33 | 0.052 | 21 |
| 1241717 | Soil | 0.7 | 34.0 | 23.1 | 74 | 0.2 | 29.5 | 10.1 | 361 | 2.64 | 30.6 | 4.0 | 9.9 | 18 | 0.2 | 4.9 | 0.3 | 24 | 0.24 | 0.058 | 30 |
| 1241718 | Soil | 0.5 | 23.7 | 15.9 | 56 | <0.1 | 21.1 | 7.9 | 265 | 2.11 | 21.5 | 4.8 | 7.8 | 14 | 0.1 | 3.5 | 0.2 | 20 | 0.19 | 0.055 | 28 |
| 1241719 | Soil | 1.2 | 30.6 | 14.1 | 66 | 0.1 | 25.5 | 8.9 | 352 | 2.47 | 22.8 | 3.5 | 5.7 | 24 | 0.2 | 2.3 | 0.2 | 42 | 0.36 | 0.060 | 20 |
| 1241720 | Soil | 0.8 | 38.5 | 28.4 | 83 | 0.2 | 31.4 | 12.8 | 498 | 2.87 | 48.1 | 5.0 | 9.2 | 22 | 0.3 | 5.5 | 0.4 | 25 | 0.39 | 0.052 | 29 |
| 1241721 | Soil | 0.7 | 26.4 | 8.0 | 58 | 0.1 | 20.9 | 7.8 | 206 | 1.81 | 13.4 | 2.0 | 3.5 | 17 | 0.3 | 0.8 | 0.1 | 28 | 0.32 | 0.063 | 13 |
| 1241722 | Soil | 0.6 | 30.3 | 28.9 | 76 | 0.1 | 25.6 | 11.2 | 384 | 2.59 | 37.6 | 5.5 | 9.0 | 20 | 0.2 | 6.2 | 0.3 | 23 | 0.31 | 0.054 | 30 |
| 1241723 | Soil | 0.8 | 35.6 | 29.1 | 79 | 0.2 | 28.5 | 12.3 | 475 | 2.82 | 42.1 | 4.3 | 8.5 | 22 | 0.3 | 6.9 | 0.3 | 24 | 0.40 | 0.042 | 28 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1240098 | Soil | 15 | 0.30 | 94 | 0.009 | <1 | 0.73 | 0.004 | 0.04 | 0.3 | 0.03 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1240099 | Soil | 18 | 0.36 | 194 | 0.008 | <1 | 0.93 | 0.004 | 0.04 | 0.3 | 0.05 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240100 | Soil | 15 | 0.35 | 145 | 0.010 | 1 | 0.77 | 0.005 | 0.03 | 0.3 | 0.03 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1237578 | Soil | 18 | 0.35 | 128 | 0.007 | <1 | 0.90 | 0.004 | 0.03 | 0.2 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1237579 | Soil | 15 | 0.23 | 42 | 0.008 | <1 | 0.82 | 0.003 | 0.03 | 0.2 | 0.02 | 0.9 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1237580 | Soil | 18 | 0.33 | 137 | 0.007 | <1 | 0.83 | 0.003 | 0.03 | <0.1 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1237581 | Soil | 22 | 0.37 | 220 | 0.004 | 1 | 1.07 | 0.003 | 0.03 | 0.1 | 0.05 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1237582 | Soil | 17 | 0.32 | 153 | 0.007 | 2 | 0.94 | 0.003 | 0.03 | 0.1 | 0.03 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1237583 | Soil | 19 | 0.32 | 150 | 0.009 | <1 | 1.01 | 0.003 | 0.03 | <0.1 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1237584 | Soil | 14 | 0.21 | 74 | 0.002 | <1 | 0.70 | 0.002 | 0.03 | <0.1 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | 3 | <0.2 |
| 1237585 | Soil | 14 | 0.23 | 70 | 0.002 | <1 | 0.77 | 0.002 | 0.03 | <0.1 | 0.03 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1237586 | Soil | 13 | 0.13 | 31 | 0.002 | <1 | 0.51 | 0.002 | 0.03 | <0.1 | 0.02 | 0.9 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1237587 | Soil | 15 | 0.18 | 60 | 0.004 | <1 | 0.73 | 0.002 | 0.03 | <0.1 | 0.02 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1237588 | Soil | 17 | 0.28 | 57 | 0.005 | <1 | 1.04 | 0.002 | 0.03 | <0.1 | 0.02 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1237589 | Soil | 17 | 0.35 | 43 | 0.004 | <1 | 1.07 | 0.002 | 0.02 | <0.1 | 0.03 | 1.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241709 | Soil | 18 | 0.29 | 109 | 0.016 | <1 | 0.83 | 0.007 | 0.08 | 0.4 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1241710 | Soil | 20 | 0.27 | 111 | 0.014 | <1 | 0.92 | 0.004 | 0.05 | 0.3 | 0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241711 | Soil | 24 | 0.33 | 185 | 0.018 | <1 | 1.03 | 0.006 | 0.07 | 0.4 | 0.06 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241712 | Soil | 20 | 0.30 | 138 | 0.014 | <1 | 0.97 | 0.004 | 0.07 | 0.5 | 0.04 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241713 | Soil | 23 | 0.34 | 156 | 0.017 | 1 | 1.01 | 0.006 | 0.07 | 0.4 | 0.05 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241714 | Soil | 23 | 0.37 | 97 | 0.020 | <1 | 0.99 | 0.007 | 0.09 | 0.6 | 0.04 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241715 | Soil | 22 | 0.32 | 195 | 0.021 | <1 | 1.05 | 0.006 | 0.07 | 0.5 | 0.04 | 3.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241716 | Soil | 22 | 0.30 | 221 | 0.018 | <1 | 1.02 | 0.006 | 0.06 | 0.4 | 0.06 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241717 | Soil | 20 | 0.32 | 164 | 0.014 | <1 | 0.97 | 0.009 | 0.10 | 0.4 | 0.05 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241718 | Soil | 16 | 0.28 | 95 | 0.014 | <1 | 0.75 | 0.004 | 0.06 | 0.3 | 0.03 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241719 | Soil | 26 | 0.31 | 302 | 0.029 | <1 | 1.14 | 0.007 | 0.06 | 0.5 | 0.04 | 3.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241720 | Soil | 22 | 0.35 | 121 | 0.015 | <1 | 0.96 | 0.008 | 0.10 | 0.5 | 0.06 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241721 | Soil | 16 | 0.27 | 284 | 0.021 | <1 | 0.69 | 0.011 | 0.02 | 0.4 | 0.04 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241722 | Soil | 20 | 0.32 | 100 | 0.014 | <1 | 0.87 | 0.006 | 0.07 | 0.5 | 0.05 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241723 | Soil | 21 | 0.33 | 125 | 0.012 | <1 | 0.96 | 0.007 | 0.09 | 0.5 | 0.06 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241724 | Soil | 0.9 | 35.9 | 30.7 | 83 | 0.2 | 29.0 | 13.2 | 370 | 2.94 | 43.8 | 2.8 | 9.5 | 23 | 0.4 | 6.7 | 0.3 | 26 | 0.37 | 0.056 | 29 |
| 1241725 | Soil | 0.9 | 37.1 | 26.9 | 85 | 0.2 | 32.4 | 13.7 | 552 | 2.79 | 40.7 | 4.3 | 9.3 | 22 | 0.3 | 5.5 | 0.3 | 25 | 0.44 | 0.062 | 29 |
| 1241726 | Soil | 0.7 | 36.6 | 25.6 | 94 | 0.2 | 30.7 | 11.7 | 401 | 2.86 | 47.9 | 2.2 | 7.9 | 33 | 0.3 | 6.2 | 0.3 | 25 | 0.66 | 0.043 | 24 |
| 1241727 | Soil | 0.7 | 35.8 | 30.2 | 80 | 0.2 | 30.8 | 13.3 | 470 | 2.82 | 40.1 | 4.8 | 10.2 | 23 | 0.4 | 7.1 | 0.3 | 23 | 0.38 | 0.053 | 31 |
| 1241728 | Soil | 0.6 | 29.6 | 22.4 | 62 | 0.2 | 23.6 | 8.5 | 207 | 2.26 | 33.6 | 2.7 | 7.4 | 25 | 0.3 | 4.5 | 0.3 | 22 | 0.46 | 0.043 | 24 |
| 1241729 | Soil | 0.7 | 27.7 | 21.1 | 70 | <0.1 | 26.9 | 11.5 | 393 | 2.45 | 30.6 | 6.3 | 7.9 | 18 | 0.3 | 4.3 | 0.3 | 22 | 0.31 | 0.035 | 23 |
| 1241730 | Soil | 0.8 | 19.2 | 11.0 | 63 | <0.1 | 16.2 | 5.7 | 171 | 2.41 | 19.6 | 4.7 | 4.4 | 24 | 0.3 | 1.9 | 0.1 | 25 | 0.44 | 0.058 | 16 |
| 1241731 | Soil | 0.6 | 24.6 | 20.8 | 70 | 0.1 | 22.4 | 10.3 | 450 | 2.34 | 31.3 | 2.4 | 7.4 | 21 | 0.2 | 4.4 | 0.2 | 21 | 0.36 | 0.056 | 25 |
| 1241732 | Soil | 0.8 | 23.1 | 16.7 | 60 | 0.1 | 24.2 | 11.5 | 933 | 2.34 | 30.5 | 6.1 | 5.9 | 22 | 0.2 | 3.9 | 0.2 | 20 | 0.36 | 0.055 | 21 |
| 1241733 | Soil | 0.8 | 35.1 | 31.7 | 80 | 0.2 | 27.9 | 11.6 | 312 | 2.67 | 43.1 | 3.4 | 9.2 | 22 | 0.2 | 6.9 | 0.4 | 24 | 0.35 | 0.057 | 28 |
| 1241734 | Soil | 0.7 | 38.3 | 29.4 | 86 | 0.2 | 32.3 | 13.7 | 493 | 2.98 | 33.9 | 21.0 | 9.7 | 26 | 0.3 | 6.3 | 0.3 | 23 | 0.48 | 0.047 | 29 |
| 1241735 | Soil | 0.7 | 23.4 | 19.0 | 54 | 0.2 | 20.2 | 8.3 | 384 | 1.98 | 34.9 | 8.7 | 4.4 | 82 | 0.3 | 2.9 | 0.2 | 15 | 1.06 | 0.046 | 19 |
| 1241736 | Soil | 0.8 | 25.9 | 18.7 | 62 | 0.1 | 26.0 | 10.8 | 451 | 2.52 | 18.3 | 9.0 | 7.1 | 34 | 0.1 | 2.2 | 0.3 | 19 | 0.52 | 0.039 | 27 |
| 1241737 | Soil | 0.6 | 22.2 | 13.1 | 50 | 0.1 | 22.9 | 9.3 | 374 | 2.33 | 10.6 | 11.5 | 5.8 | 38 | 0.1 | 1.2 | 0.2 | 21 | 0.61 | 0.039 | 24 |
| 1241738 | Soil | 0.7 | 25.1 | 15.9 | 50 | 0.1 | 23.4 | 8.9 | 373 | 2.34 | 13.0 | 2.7 | 6.2 | 42 | 0.1 | 1.2 | 0.2 | 25 | 0.70 | 0.036 | 24 |
| 1241739 | Soil | 0.7 | 18.2 | 14.0 | 53 | <0.1 | 19.6 | 9.9 | 353 | 2.31 | 13.5 | 4.3 | 8.3 | 20 | <0.1 | 1.4 | 0.2 | 22 | 0.27 | 0.027 | 29 |
| 1241740 | Soil | 2.4 | 31.8 | 18.7 | 65 | 0.1 | 28.8 | 12.0 | 439 | 2.80 | 20.0 | 13.5 | 10.6 | 35 | 0.1 | 2.5 | 0.2 | 22 | 0.67 | 0.046 | 31 |
| 1241741 | Soil | 0.4 | 15.8 | 9.8 | 32 | <0.1 | 15.7 | 5.5 | 204 | 1.51 | 7.8 | 0.8 | 3.6 | 76 | 0.1 | 0.8 | 0.2 | 13 | 1.54 | 0.036 | 15 |
| 1241742 | Soil | 0.7 | 23.3 | 17.2 | 62 | <0.1 | 27.3 | 10.9 | 424 | 2.63 | 14.1 | 3.5 | 8.3 | 24 | <0.1 | 2.0 | 0.2 | 21 | 0.43 | 0.038 | 30 |
| 1241743 | Soil | 0.8 | 21.2 | 14.9 | 55 | <0.1 | 25.1 | 10.0 | 282 | 2.58 | 11.8 | 2.9 | 8.6 | 22 | <0.1 | 1.1 | 0.2 | 25 | 0.34 | 0.024 | 27 |
| 1241744 | Soil | 0.7 | 26.2 | 17.2 | 63 | <0.1 | 27.0 | 10.3 | 322 | 2.71 | 15.7 | 3.8 | 9.6 | 18 | <0.1 | 3.1 | 0.2 | 23 | 0.30 | 0.033 | 29 |
| 1241745 | Soil | 0.6 | 26.8 | 25.5 | 68 | 0.1 | 31.7 | 14.8 | 481 | 3.03 | 14.0 | 4.7 | 9.8 | 23 | <0.1 | 2.2 | 0.2 | 19 | 0.33 | 0.030 | 35 |
| 1241746 | Soil | 0.9 | 19.9 | 26.5 | 82 | 0.1 | 27.8 | 10.0 | 271 | 2.50 | 21.1 | 5.6 | 7.9 | 19 | 0.1 | 2.1 | 0.1 | 28 | 0.25 | 0.028 | 25 |
| 1241747 | Soil | 0.8 | 18.2 | 18.1 | 81 | 0.2 | 24.2 | 8.5 | 249 | 2.63 | 8.8 | 2.0 | 8.9 | 9 | 0.2 | 1.1 | 0.1 | 25 | 0.12 | 0.029 | 34 |
| 1241748 | Soil | 0.8 | 21.9 | 13.9 | 53 | 0.1 | 26.3 | 10.5 | 253 | 2.87 | 13.2 | 3.0 | 5.7 | 25 | <0.1 | 0.8 | 0.2 | 35 | 0.50 | 0.018 | 20 |
| 1241749 | Soil | 0.7 | 22.6 | 12.3 | 43 | 0.2 | 18.9 | 7.3 | 348 | 1.71 | 20.3 | 3.3 | 3.0 | 64 | 0.4 | 1.6 | 0.2 | 24 | 1.15 | 0.043 | 12 |
| 1241750 | Soil | 0.5 | 18.6 | 12.8 | 55 | 0.2 | 20.9 | 8.7 | 367 | 2.02 | 15.1 | 11.6 | 4.5 | 47 | 0.2 | 1.5 | 0.1 | 26 | 0.67 | 0.045 | 21 |
| 1241751 | Soil | 0.8 | 11.3 | 13.8 | 38 | <0.1 | 14.7 | 6.6 | 210 | 2.26 | 12.1 | <0.5 | 4.6 | 13 | <0.1 | 1.0 | 0.1 | 35 | 0.15 | 0.018 | 24 |
| 1241752 | Soil | 0.6 | 24.5 | 13.9 | 57 | 0.2 | 22.5 | 10.1 | 426 | 2.41 | 11.4 | 2.4 | 5.1 | 71 | <0.1 | 1.0 | 0.2 | 21 | 1.11 | 0.040 | 17 |
| 1241753 | Soil | 0.6 | 33.2 | 16.5 | 42 | 0.2 | 30.3 | 11.5 | 523 | 2.43 | 9.7 | 2.3 | 4.8 | 66 | <0.1 | 1.3 | 0.2 | 17 | 1.24 | 0.040 | 19 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241724 | Soil | | 22 | 0.34 | 113 | 0.015 | <1 | 0.97 | 0.008 | 0.11 | 0.5 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241725 | Soil | | 22 | 0.36 | 131 | 0.018 | <1 | 0.95 | 0.007 | 0.10 | 0.5 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241726 | Soil | | 21 | 0.37 | 171 | 0.012 | 2 | 1.01 | 0.006 | 0.12 | 0.5 | 0.06 | 2.6 | 0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1241727 | Soil | | 20 | 0.32 | 125 | 0.013 | 1 | 0.91 | 0.006 | 0.12 | 0.5 | 0.07 | 2.3 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241728 | Soil | | 17 | 0.27 | 139 | 0.013 | <1 | 0.80 | 0.005 | 0.08 | 0.6 | 0.05 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241729 | Soil | | 16 | 0.30 | 107 | 0.013 | 2 | 0.80 | 0.005 | 0.10 | 0.3 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241730 | Soil | | 14 | 0.26 | 182 | 0.013 | <1 | 0.71 | 0.005 | 0.04 | 0.4 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241731 | Soil | | 16 | 0.27 | 117 | 0.012 | 1 | 0.74 | 0.006 | 0.08 | 0.4 | 0.05 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241732 | Soil | | 14 | 0.23 | 155 | 0.013 | <1 | 0.63 | 0.005 | 0.06 | 0.5 | 0.04 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241733 | Soil | | 21 | 0.33 | 114 | 0.014 | <1 | 0.89 | 0.006 | 0.09 | 0.5 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1241734 | Soil | | 21 | 0.31 | 151 | 0.010 | 1 | 0.99 | 0.005 | 0.13 | 0.4 | 0.06 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241735 | Soil | | 14 | 0.34 | 190 | 0.008 | 2 | 0.79 | 0.007 | 0.06 | 0.6 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241736 | Soil | | 14 | 0.25 | 151 | 0.006 | 1 | 0.74 | 0.005 | 0.06 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241737 | Soil | | 15 | 0.31 | 161 | 0.006 | <1 | 0.88 | 0.004 | 0.04 | 0.2 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241738 | Soil | | 16 | 0.30 | 215 | 0.007 | 2 | 0.88 | 0.005 | 0.07 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241739 | Soil | | 14 | 0.23 | 176 | 0.009 | <1 | 0.78 | 0.004 | 0.06 | 0.2 | 0.01 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241740 | Soil | | 15 | 0.34 | 142 | 0.009 | 1 | 0.82 | 0.006 | 0.06 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241741 | Soil | | 9 | 0.18 | 162 | 0.005 | 1 | 0.56 | 0.005 | 0.05 | <0.1 | 0.04 | 1.6 | <0.1 | 0.09 | 2 | <0.5 | <1 | <0.2 |
| 1241742 | Soil | | 15 | 0.21 | 144 | 0.008 | 1 | 0.72 | 0.005 | 0.06 | 0.1 | 0.02 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | 1 | <0.2 |
| 1241743 | Soil | | 16 | 0.29 | 191 | 0.008 | <1 | 0.94 | 0.005 | 0.06 | 0.1 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241744 | Soil | | 15 | 0.30 | 167 | 0.011 | <1 | 0.86 | 0.005 | 0.05 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241745 | Soil | | 16 | 0.31 | 178 | 0.004 | <1 | 1.01 | 0.004 | 0.07 | <0.1 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241746 | Soil | | 19 | 0.31 | 239 | 0.008 | <1 | 1.07 | 0.005 | 0.06 | 0.1 | 0.01 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241747 | Soil | | 17 | 0.33 | 155 | 0.007 | <1 | 0.98 | 0.003 | 0.05 | 0.1 | <0.01 | 1.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241748 | Soil | | 22 | 0.35 | 138 | 0.009 | <1 | 1.29 | 0.005 | 0.04 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241749 | Soil | | 15 | 0.32 | 175 | 0.011 | 1 | 0.80 | 0.007 | 0.04 | 0.4 | 0.03 | 1.8 | <0.1 | 0.10 | 2 | <0.5 | <1 | <0.2 |
| 1241750 | Soil | | 17 | 0.34 | 164 | 0.010 | 1 | 0.77 | 0.006 | 0.05 | 0.9 | 0.05 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241751 | Soil | | 18 | 0.28 | 170 | 0.008 | <1 | 1.07 | 0.004 | 0.06 | 0.1 | <0.01 | 1.4 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241752 | Soil | | 16 | 0.41 | 128 | 0.006 | 1 | 0.95 | 0.005 | 0.05 | <0.1 | 0.03 | 1.6 | <0.1 | 0.12 | 3 | <0.5 | <1 | <0.2 |
| 1241753 | Soil | | 13 | 0.32 | 159 | 0.004 | <1 | 0.80 | 0.005 | 0.04 | <0.1 | 0.10 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241754 | Soil | 0.7 | 28.2 | 15.4 | 53 | 0.1 | 28.1 | 12.1 | 491 | 2.67 | 12.2 | 8.4 | 7.6 | 36 | 0.2 | 1.1 | 0.2 | 25 | 0.55 | 0.056 | 30 |
| 1241755 | Soil | 0.8 | 22.9 | 16.9 | 57 | 0.1 | 25.7 | 10.8 | 392 | 2.71 | 12.5 | 3.0 | 10.2 | 18 | <0.1 | 0.7 | 0.2 | 24 | 0.25 | 0.025 | 32 |
| 1241756 | Soil | 0.9 | 30.2 | 17.7 | 61 | 0.2 | 29.2 | 10.2 | 347 | 2.78 | 10.4 | 5.7 | 9.7 | 38 | <0.1 | 1.2 | 0.2 | 30 | 0.59 | 0.042 | 34 |
| 1240324 | Soil | 0.6 | 27.2 | 16.8 | 56 | 0.1 | 33.8 | 11.9 | 409 | 2.65 | 18.2 | 0.9 | 10.2 | 25 | <0.1 | 1.4 | 0.3 | 25 | 0.37 | 0.044 | 32 |
| 1240325 | Soil | 1.0 | 33.3 | 17.5 | 62 | 0.1 | 53.7 | 14.1 | 487 | 2.98 | 16.6 | 4.5 | 9.0 | 30 | <0.1 | 1.6 | 0.2 | 32 | 0.39 | 0.050 | 30 |
| 1240326 | Soil | 1.1 | 20.5 | 13.7 | 51 | <0.1 | 35.0 | 10.6 | 288 | 2.60 | 12.7 | 3.1 | 6.6 | 23 | <0.1 | 1.0 | 0.2 | 41 | 0.32 | 0.024 | 22 |
| 1240327 | Soil | 1.2 | 27.0 | 14.7 | 61 | <0.1 | 41.5 | 12.5 | 264 | 2.71 | 11.8 | 3.8 | 8.3 | 19 | <0.1 | 1.3 | 0.1 | 39 | 0.20 | 0.020 | 28 |
| 1240328 | Soil | 0.9 | 55.2 | 16.0 | 64 | 0.1 | 136.8 | 24.3 | 545 | 3.50 | 13.3 | 5.3 | 8.2 | 49 | <0.1 | 1.0 | 0.2 | 53 | 0.64 | 0.066 | 25 |
| 1240329 | Soil | 0.8 | 37.5 | 14.1 | 52 | 0.1 | 36.3 | 12.2 | 421 | 2.73 | 10.3 | 8.9 | 5.8 | 55 | 0.1 | 1.2 | 0.2 | 32 | 0.67 | 0.045 | 27 |
| 1240330 | Soil | 1.0 | 26.5 | 13.5 | 55 | 0.1 | 27.2 | 10.6 | 299 | 2.81 | 11.6 | 7.2 | 7.8 | 37 | <0.1 | 1.3 | 0.2 | 31 | 0.40 | 0.037 | 31 |
| 1240331 | Soil | 0.5 | 36.8 | 12.4 | 63 | <0.1 | 122.2 | 22.9 | 671 | 3.50 | 7.5 | 4.0 | 10.7 | 35 | <0.1 | 0.9 | 0.2 | 37 | 0.38 | 0.056 | 35 |
| 1240332 | Soil | 1.1 | 23.7 | 14.6 | 49 | <0.1 | 27.7 | 10.4 | 309 | 2.64 | 12.2 | 11.4 | 8.1 | 22 | <0.1 | 1.3 | 0.2 | 30 | 0.27 | 0.032 | 30 |
| 1240333 | Soil | 0.7 | 27.7 | 12.9 | 55 | <0.1 | 27.4 | 10.7 | 316 | 2.80 | 11.9 | 6.4 | 8.6 | 22 | <0.1 | 1.3 | 0.2 | 31 | 0.32 | 0.031 | 30 |
| 1240334 | Soil | 0.8 | 40.1 | 17.2 | 67 | 0.1 | 40.8 | 16.6 | 416 | 3.31 | 15.0 | 4.3 | 10.5 | 26 | 0.1 | 2.8 | 0.2 | 27 | 0.30 | 0.044 | 37 |
| 1240335 | Soil | 1.1 | 35.3 | 16.8 | 65 | <0.1 | 42.5 | 16.2 | 488 | 3.40 | 13.5 | 3.8 | 10.2 | 21 | <0.1 | 2.5 | 0.2 | 26 | 0.26 | 0.034 | 35 |
| 1240336 | Soil | 0.7 | 24.9 | 11.6 | 56 | <0.1 | 30.1 | 12.6 | 333 | 2.86 | 11.4 | 2.3 | 7.2 | 13 | <0.1 | 1.8 | 0.2 | 25 | 0.14 | 0.042 | 37 |
| 1240337 | Soil | 0.7 | 22.3 | 12.3 | 50 | <0.1 | 25.1 | 10.4 | 274 | 2.73 | 13.2 | 6.0 | 10.7 | 16 | <0.1 | 1.9 | 0.2 | 22 | 0.14 | 0.028 | 41 |
| 1240338 | Soil | 0.8 | 25.3 | 13.9 | 54 | 0.1 | 29.1 | 11.9 | 349 | 2.83 | 14.6 | 3.7 | 10.8 | 17 | <0.1 | 3.3 | 0.2 | 20 | 0.19 | 0.035 | 43 |
| 1240339 | Soil | 1.2 | 27.9 | 15.4 | 58 | 0.1 | 28.5 | 10.3 | 435 | 2.64 | 16.4 | 5.1 | 9.5 | 24 | 0.1 | 1.9 | 0.2 | 23 | 0.32 | 0.035 | 30 |
| 1240340 | Soil | 0.6 | 27.4 | 15.8 | 65 | <0.1 | 27.8 | 11.9 | 396 | 2.82 | 15.5 | 12.9 | 11.8 | 16 | <0.1 | 1.8 | 0.2 | 16 | 0.23 | 0.043 | 34 |
| 1240341 | Soil | 0.9 | 27.4 | 17.0 | 62 | <0.1 | 28.9 | 11.4 | 360 | 2.97 | 18.0 | 4.5 | 13.5 | 21 | <0.1 | 2.0 | 0.2 | 21 | 0.27 | 0.029 | 34 |
| 1240342 | Soil | 0.9 | 18.6 | 14.0 | 45 | <0.1 | 21.1 | 9.2 | 244 | 2.39 | 14.2 | 1.9 | 8.7 | 21 | <0.1 | 2.1 | 0.2 | 20 | 0.30 | 0.023 | 29 |
| 1240343 | Soil | 0.8 | 20.7 | 15.2 | 53 | <0.1 | 20.9 | 9.6 | 321 | 2.31 | 18.0 | 4.6 | 6.2 | 38 | 0.1 | 1.8 | 0.2 | 18 | 0.54 | 0.040 | 23 |
| 1240344 | Soil | 0.9 | 25.4 | 14.0 | 54 | <0.1 | 25.5 | 8.5 | 230 | 2.57 | 13.0 | 3.0 | 8.1 | 27 | 0.1 | 1.2 | 0.2 | 28 | 0.46 | 0.033 | 24 |
| 1240345 | Soil | 0.6 | 23.3 | 13.5 | 51 | <0.1 | 24.4 | 8.3 | 308 | 2.38 | 11.8 | 5.0 | 7.4 | 30 | 0.1 | 1.3 | 0.2 | 24 | 0.50 | 0.040 | 24 |
| 1241501 | Soil | 0.9 | 33.9 | 29.0 | 77 | 0.2 | 29.1 | 11.4 | 343 | 2.79 | 39.0 | 5.7 | 10.7 | 20 | 0.2 | 5.9 | 0.5 | 24 | 0.28 | 0.050 | 29 |
| 1241502 | Soil | 0.8 | 35.0 | 28.7 | 74 | 0.2 | 28.7 | 10.9 | 326 | 2.80 | 36.6 | 4.1 | 10.8 | 20 | 0.1 | 6.2 | 0.5 | 23 | 0.27 | 0.049 | 31 |
| 1241503 | Soil | 0.7 | 22.1 | 17.7 | 73 | 0.1 | 21.3 | 9.7 | 443 | 2.08 | 25.1 | 4.5 | 5.8 | 30 | 0.3 | 3.1 | 0.3 | 20 | 0.58 | 0.050 | 18 |
| 1241504 | Soil | 1.3 | 53.5 | 24.7 | 90 | 0.4 | 33.7 | 10.9 | 541 | 2.77 | 25.0 | 4.6 | 6.3 | 52 | 0.5 | 3.0 | 0.3 | 32 | 0.74 | 0.069 | 19 |
| 1241505 | Soil | 1.0 | 44.1 | 32.8 | 102 | 0.2 | 38.2 | 15.8 | 698 | 3.31 | 42.5 | 7.4 | 11.8 | 37 | 0.2 | 7.7 | 0.6 | 30 | 0.63 | 0.060 | 29 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241754 | Soil | | 19 | 0.29 | 136 | 0.010 | <1 | 0.75 | 0.005 | 0.05 | 0.2 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241755 | Soil | | 18 | 0.36 | 128 | 0.009 | <1 | 0.99 | 0.004 | 0.07 | 0.1 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241756 | Soil | | 22 | 0.38 | 225 | 0.012 | <1 | 1.14 | 0.006 | 0.07 | 0.1 | 0.03 | 2.7 | <0.1 | 0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240324 | Soil | | 29 | 0.44 | 112 | 0.013 | <1 | 0.97 | 0.005 | 0.08 | 0.1 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240325 | Soil | | 58 | 0.60 | 181 | 0.015 | 1 | 1.13 | 0.007 | 0.07 | 0.2 | 0.03 | 2.8 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240326 | Soil | | 44 | 0.48 | 253 | 0.021 | <1 | 1.24 | 0.008 | 0.05 | 0.2 | 0.02 | 3.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240327 | Soil | | 50 | 0.54 | 297 | 0.017 | <1 | 1.38 | 0.007 | 0.05 | 0.1 | 0.03 | 3.5 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240328 | Soil | | 192 | 1.57 | 225 | 0.051 | 1 | 1.83 | 0.007 | 0.09 | 0.1 | 0.01 | 3.5 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1240329 | Soil | | 25 | 0.43 | 263 | 0.009 | <1 | 1.20 | 0.006 | 0.05 | 0.2 | 0.03 | 2.6 | <0.1 | 0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240330 | Soil | | 23 | 0.47 | 225 | 0.008 | <1 | 1.24 | 0.005 | 0.05 | 0.2 | 0.02 | 2.3 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1240331 | Soil | | 168 | 1.39 | 154 | 0.012 | <1 | 1.65 | 0.005 | 0.07 | <0.1 | 0.01 | 3.3 | <0.1 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| 1240332 | Soil | | 24 | 0.36 | 211 | 0.010 | <1 | 0.98 | 0.005 | 0.05 | 0.2 | 0.02 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240333 | Soil | | 23 | 0.39 | 214 | 0.012 | <1 | 1.14 | 0.006 | 0.05 | 0.2 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240334 | Soil | | 23 | 0.42 | 168 | 0.008 | <1 | 1.17 | 0.006 | 0.06 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240335 | Soil | | 34 | 0.45 | 183 | 0.005 | <1 | 1.12 | 0.005 | 0.05 | 0.1 | 0.03 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1240336 | Soil | | 24 | 0.41 | 146 | 0.006 | <1 | 1.00 | 0.004 | 0.04 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240337 | Soil | | 17 | 0.29 | 176 | 0.004 | <1 | 0.85 | 0.004 | 0.05 | 0.1 | 0.01 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240338 | Soil | | 16 | 0.28 | 167 | 0.004 | <1 | 0.85 | 0.004 | 0.05 | <0.1 | 0.02 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240339 | Soil | | 21 | 0.33 | 244 | 0.008 | <1 | 0.98 | 0.005 | 0.04 | 0.2 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1240340 | Soil | | 14 | 0.33 | 129 | 0.006 | 1 | 0.80 | 0.005 | 0.06 | 0.1 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240341 | Soil | | 17 | 0.36 | 174 | 0.008 | 1 | 0.95 | 0.006 | 0.04 | 0.1 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240342 | Soil | | 15 | 0.27 | 176 | 0.006 | <1 | 0.83 | 0.004 | 0.05 | 0.1 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240343 | Soil | | 13 | 0.29 | 113 | 0.007 | 2 | 0.66 | 0.004 | 0.03 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240344 | Soil | | 20 | 0.37 | 265 | 0.012 | 2 | 1.06 | 0.007 | 0.04 | 0.2 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1240345 | Soil | | 17 | 0.35 | 232 | 0.008 | 1 | 0.99 | 0.005 | 0.04 | 0.2 | 0.02 | 2.3 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241501 | Soil | | 21 | 0.40 | 100 | 0.014 | 1 | 0.94 | 0.007 | 0.08 | 0.4 | 0.06 | 2.4 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241502 | Soil | | 21 | 0.38 | 109 | 0.014 | 2 | 1.00 | 0.006 | 0.08 | 0.3 | 0.07 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241503 | Soil | | 15 | 0.32 | 116 | 0.013 | 2 | 0.71 | 0.007 | 0.06 | 0.4 | 0.05 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241504 | Soil | | 23 | 0.50 | 297 | 0.017 | 2 | 1.00 | 0.007 | 0.07 | 0.2 | 0.08 | 3.3 | <0.1 | <0.05 | 3 | 1.4 | <1 | <0.2 |
| 1241505 | Soil | | 25 | 0.59 | 174 | 0.027 | 2 | 1.10 | 0.009 | 0.13 | 0.8 | 0.06 | 3.0 | 0.2 | <0.05 | 4 | 0.5 | <1 | <0.2 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241506 | Soil | 1.2 | 45.8 | 34.2 | 108 | 0.2 | 39.2 | 15.5 | 664 | 3.68 | 75.2 | 6.6 | 14.3 | 36 | 0.4 | 6.9 | 0.6 | 30 | 0.50 | 0.059 | 36 |
| 1241507 | Soil | 0.6 | 36.9 | 22.9 | 81 | 0.2 | 28.7 | 10.7 | 264 | 2.85 | 29.5 | 4.7 | 9.0 | 19 | <0.1 | 4.7 | 0.3 | 25 | 0.23 | 0.048 | 29 |
| 1241508 | Soil | 0.8 | 30.0 | 23.7 | 74 | 0.2 | 26.1 | 11.4 | 561 | 2.57 | 39.0 | 8.0 | 9.3 | 18 | 0.3 | 4.8 | 0.3 | 19 | 0.22 | 0.055 | 24 |
| 1241509 | Soil | 0.6 | 26.6 | 21.5 | 62 | 0.2 | 22.8 | 9.4 | 340 | 2.24 | 31.9 | 4.8 | 7.3 | 18 | 0.2 | 4.1 | 0.3 | 21 | 0.26 | 0.050 | 21 |
| 1241510 | Soil | 0.6 | 24.2 | 18.6 | 58 | 0.2 | 19.4 | 9.2 | 236 | 2.35 | 34.5 | 26.5 | 7.5 | 17 | 0.2 | 3.8 | 0.2 | 18 | 0.25 | 0.054 | 23 |
| 1241511 | Soil | 0.6 | 30.0 | 23.2 | 70 | 0.1 | 24.5 | 9.8 | 326 | 2.31 | 30.9 | 5.2 | 9.3 | 21 | 0.3 | 4.5 | 0.3 | 20 | 0.25 | 0.056 | 26 |
| 1241512 | Soil | 0.7 | 18.8 | 14.8 | 56 | <0.1 | 19.1 | 10.6 | 454 | 3.54 | 38.1 | 13.1 | 7.1 | 32 | 0.1 | 1.9 | 0.2 | 19 | 0.36 | 0.057 | 23 |
| 1241513 | Soil | 0.6 | 26.8 | 21.2 | 61 | 0.1 | 23.9 | 9.3 | 187 | 2.09 | 32.2 | 3.7 | 7.5 | 22 | 0.2 | 3.7 | 0.3 | 23 | 0.25 | 0.053 | 22 |
| 1241514 | Soil | 0.5 | 31.8 | 19.4 | 62 | 0.1 | 23.8 | 9.5 | 334 | 2.09 | 13.3 | 4.5 | 6.6 | 40 | 0.1 | 5.2 | 0.3 | 24 | 0.54 | 0.051 | 22 |
| 1241515 | Soil | 0.4 | 21.6 | 16.0 | 52 | 0.1 | 17.8 | 9.1 | 1122 | 1.79 | 11.0 | 3.1 | 5.0 | 86 | 0.1 | 2.1 | 0.2 | 17 | 0.72 | 0.053 | 18 |
| 1241516 | Soil | 0.6 | 32.2 | 20.7 | 65 | 0.1 | 26.6 | 11.4 | 392 | 2.63 | 15.2 | 4.3 | 10.2 | 22 | 0.2 | 9.2 | 0.2 | 17 | 0.32 | 0.052 | 27 |
| 1241517 | Soil | 0.8 | 30.8 | 21.3 | 75 | 0.2 | 26.5 | 10.9 | 326 | 2.41 | 38.0 | 4.2 | 8.1 | 29 | 0.5 | 4.3 | 0.3 | 25 | 0.44 | 0.057 | 21 |
| 1241518 | Soil | 0.3 | 21.0 | 13.4 | 51 | <0.1 | 19.1 | 8.3 | 244 | 1.98 | 12.4 | 12.5 | 5.9 | 46 | 0.1 | 2.1 | 0.2 | 19 | 0.50 | 0.050 | 19 |
| 1241519 | Soil | 0.5 | 19.4 | 15.5 | 47 | <0.1 | 18.9 | 9.7 | 295 | 2.35 | 17.8 | 5.7 | 7.8 | 21 | 0.2 | 2.3 | 0.2 | 20 | 0.20 | 0.041 | 22 |
| 1241520 | Soil | 0.6 | 28.3 | 23.3 | 65 | 0.1 | 24.3 | 10.2 | 288 | 2.26 | 52.8 | 4.6 | 8.7 | 19 | 0.2 | 6.3 | 0.3 | 18 | 0.27 | 0.051 | 21 |
| 1241521 | Soil | 0.8 | 24.3 | 17.9 | 64 | 0.1 | 20.1 | 8.4 | 244 | 2.02 | 28.1 | 11.1 | 6.8 | 17 | <0.1 | 3.3 | 0.3 | 23 | 0.27 | 0.052 | 20 |
| 1241522 | Soil | 0.5 | 29.6 | 21.4 | 59 | 0.1 | 21.2 | 8.1 | 232 | 2.36 | 29.1 | 4.5 | 7.0 | 23 | 0.2 | 4.5 | 0.3 | 20 | 0.38 | 0.052 | 22 |
| 1241523 | Soil | 0.5 | 24.8 | 19.2 | 60 | 0.1 | 21.5 | 8.7 | 396 | 2.23 | 25.7 | 3.5 | 7.3 | 19 | 0.2 | 3.3 | 0.2 | 19 | 0.32 | 0.054 | 20 |
| 1241524 | Soil | 0.6 | 26.6 | 21.6 | 60 | 0.1 | 19.8 | 8.2 | 249 | 2.14 | 29.1 | 3.5 | 5.9 | 18 | 0.2 | 3.4 | 0.2 | 19 | 0.29 | 0.043 | 16 |
| 1241525 | Soil | 0.6 | 21.8 | 19.7 | 61 | 0.1 | 21.0 | 9.7 | 403 | 2.46 | 34.2 | 2.4 | 7.4 | 18 | 0.2 | 4.1 | 0.3 | 17 | 0.30 | 0.055 | 20 |
| 1241526 | Soil | 0.5 | 22.4 | 18.6 | 57 | 0.1 | 19.6 | 9.0 | 252 | 1.80 | 19.5 | 2.4 | 7.1 | 18 | 0.1 | 3.7 | 0.2 | 16 | 0.27 | 0.052 | 20 |
| 1241527 | Soil | 0.6 | 31.7 | 27.9 | 68 | 0.2 | 26.6 | 11.2 | 437 | 2.59 | 34.5 | 6.7 | 10.0 | 19 | 0.3 | 6.3 | 0.3 | 19 | 0.27 | 0.050 | 27 |
| 1241528 | Soil | 0.8 | 36.5 | 18.8 | 64 | 0.1 | 29.6 | 11.5 | 458 | 2.52 | 11.8 | 11.8 | 9.3 | 34 | 0.2 | 2.0 | 0.3 | 16 | 0.72 | 0.048 | 32 |
| 1241529 | Soil | 0.8 | 24.6 | 18.5 | 54 | <0.1 | 23.9 | 9.5 | 359 | 2.33 | 15.1 | 2.1 | 7.9 | 39 | 0.1 | 1.8 | 0.2 | 22 | 0.64 | 0.028 | 24 |
| 1241530 | Soil | 0.8 | 37.8 | 22.6 | 84 | <0.1 | 41.0 | 16.1 | 465 | 3.49 | 13.8 | 5.1 | 17.6 | 36 | 0.1 | 1.5 | 0.4 | 11 | 1.67 | 0.071 | 55 |
| 1241531 | Soil | 0.8 | 25.3 | 18.3 | 53 | <0.1 | 24.3 | 11.1 | 387 | 2.41 | 19.7 | 5.3 | 9.5 | 24 | 0.1 | 1.9 | 0.2 | 20 | 0.38 | 0.028 | 26 |
| 1241532 | Soil | 0.8 | 28.3 | 19.4 | 74 | <0.1 | 32.4 | 13.0 | 359 | 2.97 | 16.8 | 3.5 | 12.4 | 37 | <0.1 | 2.7 | 0.3 | 17 | 0.89 | 0.042 | 35 |
| 1241533 | Soil | 0.6 | 23.9 | 15.0 | 59 | <0.1 | 24.6 | 11.6 | 348 | 2.67 | 10.9 | 2.2 | 8.9 | 25 | 0.1 | 1.0 | 0.2 | 24 | 0.41 | 0.028 | 25 |
| 1241534 | Soil | 0.7 | 31.0 | 18.6 | 66 | <0.1 | 32.8 | 13.4 | 504 | 3.13 | 9.3 | 10.0 | 12.6 | 24 | 0.1 | 1.1 | 0.2 | 14 | 0.35 | 0.044 | 35 |
| 1241535 | Soil | 0.8 | 29.3 | 17.0 | 63 | 0.1 | 27.0 | 9.7 | 275 | 2.57 | 11.1 | 3.9 | 9.4 | 31 | <0.1 | 1.3 | 0.3 | 23 | 0.49 | 0.045 | 29 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241506 | Soil | 25 | 0.57 | 171 | 0.026 | 1 | 1.18 | 0.010 | 0.13 | 0.6 | 0.11 | 3.2 | 0.2 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1241507 | Soil | 23 | 0.45 | 152 | 0.013 | 1 | 1.08 | 0.005 | 0.09 | 0.3 | 0.07 | 2.5 | 0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241508 | Soil | 15 | 0.29 | 122 | 0.015 | <1 | 0.67 | 0.006 | 0.06 | 0.4 | 0.05 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241509 | Soil | 16 | 0.29 | 111 | 0.013 | <1 | 0.74 | 0.005 | 0.07 | 0.5 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | 0.6 | <1 | <0.2 |
| 1241510 | Soil | 14 | 0.27 | 93 | 0.013 | 2 | 0.63 | 0.005 | 0.05 | 0.4 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241511 | Soil | 16 | 0.30 | 93 | 0.015 | 1 | 0.70 | 0.006 | 0.08 | 0.4 | 0.03 | 2.0 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1241512 | Soil | 16 | 0.33 | 109 | 0.010 | 1 | 0.70 | 0.004 | 0.04 | 0.4 | 0.03 | 1.6 | <0.1 | <0.05 | 2 | 0.7 | <1 | <0.2 |
| 1241513 | Soil | 17 | 0.31 | 146 | 0.015 | 1 | 0.74 | 0.006 | 0.05 | 0.5 | 0.06 | 1.9 | <0.1 | <0.05 | 2 | 0.6 | <1 | <0.2 |
| 1241514 | Soil | 19 | 0.38 | 168 | 0.010 | 2 | 1.02 | 0.006 | 0.07 | 0.2 | 0.05 | 2.4 | <0.1 | 0.08 | 3 | <0.5 | <1 | <0.2 |
| 1241515 | Soil | 16 | 0.39 | 158 | 0.008 | 1 | 0.84 | 0.006 | 0.06 | 0.3 | 0.05 | 1.8 | <0.1 | 0.09 | 2 | <0.5 | <1 | <0.2 |
| 1241516 | Soil | 14 | 0.28 | 89 | 0.008 | 1 | 0.68 | 0.004 | 0.08 | 0.2 | 0.03 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241517 | Soil | 18 | 0.38 | 162 | 0.020 | 1 | 0.82 | 0.007 | 0.07 | 0.5 | 0.07 | 2.3 | <0.1 | <0.05 | 3 | 0.6 | <1 | <0.2 |
| 1241518 | Soil | 15 | 0.31 | 127 | 0.011 | 1 | 0.67 | 0.005 | 0.05 | 0.3 | 0.05 | 1.7 | <0.1 | 0.08 | 2 | 0.6 | <1 | <0.2 |
| 1241519 | Soil | 16 | 0.30 | 99 | 0.013 | <1 | 0.66 | 0.005 | 0.05 | 0.3 | 0.04 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241520 | Soil | 16 | 0.32 | 84 | 0.019 | <1 | 0.63 | 0.008 | 0.06 | 0.9 | 0.05 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241521 | Soil | 18 | 0.33 | 135 | 0.018 | <1 | 0.79 | 0.006 | 0.05 | 0.6 | 0.04 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241522 | Soil | 15 | 0.28 | 113 | 0.012 | 1 | 0.72 | 0.006 | 0.07 | 0.6 | 0.04 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241523 | Soil | 14 | 0.28 | 114 | 0.013 | 1 | 0.66 | 0.005 | 0.07 | 0.3 | 0.04 | 1.8 | <0.1 | <0.05 | 2 | 0.5 | <1 | <0.2 |
| 1241524 | Soil | 14 | 0.31 | 90 | 0.012 | 1 | 0.71 | 0.006 | 0.06 | 0.3 | 0.05 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241525 | Soil | 13 | 0.25 | 85 | 0.013 | <1 | 0.55 | 0.005 | 0.05 | 0.3 | 0.03 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241526 | Soil | 12 | 0.24 | 80 | 0.011 | 1 | 0.53 | 0.005 | 0.05 | 0.3 | 0.03 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241527 | Soil | 16 | 0.29 | 89 | 0.011 | <1 | 0.76 | 0.006 | 0.10 | 0.4 | 0.05 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241528 | Soil | 14 | 0.28 | 128 | 0.006 | <1 | 0.68 | 0.005 | 0.05 | 0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | 0.8 | <1 | <0.2 |
| 1241529 | Soil | 16 | 0.25 | 209 | 0.008 | 1 | 0.81 | 0.006 | 0.08 | 0.2 | 0.03 | 2.3 | <0.1 | <0.05 | 3 | 0.6 | 1 | <0.2 |
| 1241530 | Soil | 14 | 0.36 | 71 | 0.011 | 2 | 0.81 | 0.006 | 0.05 | <0.1 | <0.01 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241531 | Soil | 14 | 0.20 | 183 | 0.012 | 2 | 0.69 | 0.005 | 0.06 | 0.2 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241532 | Soil | 15 | 0.21 | 125 | 0.007 | 2 | 0.64 | 0.004 | 0.05 | 0.1 | 0.03 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | 2 | <0.2 |
| 1241533 | Soil | 16 | 0.25 | 183 | 0.009 | 1 | 0.89 | 0.004 | 0.05 | 0.2 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241534 | Soil | 16 | 0.27 | 120 | 0.003 | 2 | 0.80 | 0.004 | 0.04 | <0.1 | 0.02 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241535 | Soil | 18 | 0.30 | 212 | 0.010 | 2 | 0.91 | 0.006 | 0.05 | 0.1 | 0.03 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241536 | Soil | 0.7 | 38.8 | 20.5 | 79 | 0.2 | 38.1 | 15.8 | 507 | 3.34 | 61.8 | 13.9 | 14.5 | 30 | 0.2 | 6.1 | 0.2 | 15 | 0.43 | 0.049 | 42 |
| 1241537 | Soil | 0.9 | 14.4 | 11.0 | 55 | <0.1 | 17.8 | 7.7 | 198 | 2.10 | 10.6 | 1.1 | 3.6 | 16 | 0.2 | 0.7 | 0.1 | 41 | 0.28 | 0.017 | 12 |
| 1241538 | Soil | 1.0 | 18.8 | 11.3 | 48 | <0.1 | 20.5 | 8.1 | 168 | 2.32 | 11.5 | 23.3 | 4.3 | 11 | <0.1 | 0.8 | 0.1 | 36 | 0.17 | 0.020 | 16 |
| 1241539 | Soil | 1.0 | 30.1 | 20.0 | 65 | 0.2 | 27.4 | 11.4 | 624 | 2.44 | 30.0 | 11.5 | 6.3 | 22 | 0.2 | 2.4 | 0.2 | 29 | 0.38 | 0.052 | 21 |
| 1241540 | Soil | 0.6 | 15.3 | 10.6 | 45 | 0.1 | 17.5 | 7.9 | 319 | 1.92 | 11.8 | 14.0 | 4.7 | 28 | 0.1 | 1.3 | 0.1 | 22 | 0.45 | 0.036 | 20 |
| 1241541 | Soil | 1.0 | 26.5 | 21.6 | 60 | 0.2 | 25.6 | 10.3 | 482 | 2.35 | 29.1 | 3.3 | 5.6 | 28 | 0.2 | 1.8 | 0.2 | 25 | 0.50 | 0.046 | 21 |
| 1241542 | Soil | 0.9 | 27.2 | 18.7 | 62 | 0.2 | 28.6 | 11.3 | 462 | 2.46 | 30.8 | 8.3 | 6.9 | 32 | 0.2 | 2.2 | 0.2 | 27 | 0.47 | 0.050 | 23 |
| 1241543 | Soil | 0.9 | 22.5 | 13.7 | 42 | 0.1 | 19.4 | 7.2 | 373 | 2.27 | 15.4 | 1.4 | 5.9 | 17 | <0.1 | 1.3 | 0.2 | 29 | 0.21 | 0.020 | 24 |
| 1241544 | Soil | 0.8 | 26.2 | 17.2 | 55 | 0.1 | 25.0 | 11.6 | 546 | 2.47 | 15.6 | 4.9 | 5.1 | 54 | 0.2 | 2.1 | 0.2 | 19 | 0.79 | 0.042 | 22 |
| 1241545 | Soil | 0.9 | 49.3 | 24.4 | 89 | 0.2 | 45.3 | 17.3 | 464 | 3.73 | 21.5 | 3.3 | 16.2 | 21 | <0.1 | 1.0 | 0.2 | 17 | 0.28 | 0.039 | 38 |
| 1241546 | Soil | 0.9 | 41.3 | 18.8 | 68 | 0.2 | 32.8 | 13.8 | 455 | 3.08 | 14.9 | 13.2 | 11.3 | 25 | 0.2 | 1.2 | 0.2 | 17 | 0.42 | 0.035 | 29 |
| 1241547 | Soil | 0.9 | 36.8 | 16.8 | 69 | 0.2 | 31.9 | 12.0 | 431 | 2.81 | 22.6 | 1.9 | 8.1 | 31 | 0.2 | 1.0 | 0.2 | 25 | 0.59 | 0.048 | 27 |
| 1241548 | Soil | 1.0 | 32.6 | 17.4 | 52 | 0.2 | 27.9 | 9.3 | 361 | 2.61 | 18.9 | 2.9 | 5.7 | 35 | <0.1 | 1.0 | 0.3 | 26 | 0.79 | 0.036 | 24 |
| 1241549 | Soil | 0.6 | 31.7 | 18.1 | 65 | 0.1 | 32.4 | 12.8 | 472 | 2.94 | 15.6 | 20.6 | 10.7 | 29 | 0.1 | 1.3 | 0.2 | 22 | 0.47 | 0.044 | 35 |
| 1241550 | Soil | 0.8 | 29.7 | 15.3 | 66 | 0.1 | 28.7 | 10.8 | 391 | 2.76 | 12.6 | 3.2 | 7.7 | 43 | 0.2 | 1.1 | 0.2 | 27 | 0.70 | 0.044 | 26 |
| 1241551 | Soil | 0.8 | 31.5 | 18.2 | 62 | 0.1 | 32.7 | 12.7 | 459 | 2.73 | 15.4 | 3.8 | 9.6 | 26 | 0.1 | 1.8 | 0.2 | 24 | 0.52 | 0.041 | 31 |
| 1238836 | Soil | 0.9 | 30.9 | 9.8 | 52 | <0.1 | 22.3 | 8.9 | 235 | 2.47 | 10.4 | 7.8 | 4.3 | 19 | 0.1 | 0.6 | 0.1 | 59 | 0.16 | 0.020 | 16 |
| 1239514 | Soil | 0.6 | 27.0 | 14.9 | 62 | 0.3 | 25.0 | 9.7 | 337 | 2.41 | 623.3 | 112.4 | 5.9 | 27 | 0.1 | 2.9 | 0.2 | 21 | 0.35 | 0.048 | 20 |

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Project: MQ
Report Date: August 08, 2012



# CERTIFICATE OF ANALYSIS DAW12000090.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241536 | Soil | | 13 | 0.23 | 162 | 0.004 | 1 | 0.69 | 0.004 | 0.05 | <0.1 | 0.03 | 2.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241537 | Soil | | 23 | 0.29 | 294 | 0.017 | 1 | 1.18 | 0.005 | 0.04 | 0.3 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241538 | Soil | | 19 | 0.27 | 180 | 0.017 | 1 | 0.91 | 0.004 | 0.06 | 0.3 | 0.01 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241539 | Soil | | 22 | 0.33 | 187 | 0.018 | 1 | 0.97 | 0.007 | 0.06 | 0.5 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241540 | Soil | | 14 | 0.27 | 158 | 0.010 | <1 | 0.70 | 0.004 | 0.03 | 0.5 | 0.03 | 1.6 | <0.1 | 0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241541 | Soil | | 23 | 0.31 | 164 | 0.011 | 1 | 0.86 | 0.005 | 0.05 | 0.3 | 0.04 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241542 | Soil | | 25 | 0.34 | 145 | 0.020 | 1 | 0.89 | 0.006 | 0.06 | 0.4 | 0.03 | 2.7 | <0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1241543 | Soil | | 17 | 0.24 | 175 | 0.008 | <1 | 0.92 | 0.004 | 0.04 | 0.2 | 0.02 | 1.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241544 | Soil | | 15 | 0.24 | 152 | 0.006 | 2 | 0.67 | 0.004 | 0.04 | 0.1 | 0.04 | 1.8 | <0.1 | 0.06 | 2 | <0.5 | <1 | <0.2 |
| 1241545 | Soil | | 21 | 0.52 | 96 | 0.006 | 1 | 1.27 | 0.004 | 0.05 | <0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1241546 | Soil | | 15 | 0.32 | 107 | 0.005 | 1 | 0.85 | 0.005 | 0.05 | <0.1 | 0.02 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241547 | Soil | | 20 | 0.35 | 167 | 0.011 | 2 | 0.80 | 0.005 | 0.06 | 0.2 | 0.03 | 2.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241548 | Soil | | 19 | 0.30 | 275 | 0.006 | <1 | 1.02 | 0.006 | 0.06 | 0.2 | 0.02 | 2.7 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241549 | Soil | | 19 | 0.32 | 139 | 0.010 | 1 | 0.85 | 0.005 | 0.06 | 0.1 | 0.03 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241550 | Soil | | 21 | 0.36 | 232 | 0.012 | 2 | 1.02 | 0.005 | 0.07 | 0.2 | 0.02 | 2.4 | <0.1 | 0.06 | 3 | <0.5 | <1 | <0.2 |
| 1241551 | Soil | | 24 | 0.29 | 175 | 0.010 | <1 | 0.81 | 0.005 | 0.05 | 0.1 | 0.03 | 2.6 | <0.1 | 0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238836 | Soil | | 29 | 0.38 | 204 | 0.045 | 1 | 1.24 | 0.005 | 0.05 | 0.1 | 0.02 | 3.2 | <0.1 | <0.05 | 4 | <0.5 | <1 | <0.2 |
| 1239514 | Soil | | 14 | 0.21 | 205 | 0.009 | 1 | 0.57 | 0.004 | 0.05 | 0.2 | 0.06 | 2.2 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

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Project: MQ
Report Date: August 08, 2012



# QUALITY CONTROL REPORT DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1241090 | Soil | 0.7 | 18.7 | 34.9 | 78 | 0.2 | 18.5 | 7.4 | 198 | 2.01 | 22.6 | 2.3 | 5.7 | 8 | 0.3 | 5.8 | 0.2 | 12 | 0.08 | 0.034 | 25 |
| REP 1241090 | QC | 0.8 | 18.3 | 35.5 | 78 | 0.2 | 17.7 | 7.3 | 185 | 1.89 | 22.6 | 2.7 | 5.5 | 8 | 0.4 | 5.9 | 0.2 | 11 | 0.08 | 0.033 | 24 |
| 1241115 | Soil | 0.9 | 22.3 | 56.5 | 82 | 0.4 | 22.4 | 10.4 | 307 | 2.51 | 33.0 | 5.0 | 5.4 | 8 | 0.4 | 16.1 | 0.6 | 16 | 0.08 | 0.037 | 24 |
| REP 1241115 | QC | 0.9 | 22.0 | 58.9 | 81 | 0.3 | 22.5 | 9.8 | 292 | 2.36 | 31.9 | 4.4 | 5.1 | 8 | 0.4 | 15.5 | 0.6 | 15 | 0.08 | 0.036 | 24 |
| 1237581 | Soil | 1.2 | 35.7 | 24.5 | 75 | 0.3 | 28.2 | 16.3 | 762 | 2.75 | 7.6 | 2.4 | 5.8 | 27 | 0.6 | 1.4 | 0.4 | 23 | 0.37 | 0.053 | 31 |
| REP 1237581 | QC | 1.1 | 35.7 | 25.3 | 76 | 0.3 | 28.6 | 15.8 | 768 | 2.77 | 8.0 | 2.0 | 5.5 | 27 | 0.4 | 1.5 | 0.3 | 24 | 0.37 | 0.053 | 31 |
| 1241725 | Soil | 0.9 | 37.1 | 26.9 | 85 | 0.2 | 32.4 | 13.7 | 552 | 2.79 | 40.7 | 4.3 | 9.3 | 22 | 0.3 | 5.5 | 0.3 | 25 | 0.44 | 0.062 | 29 |
| REP 1241725 | QC | 0.8 | 37.0 | 27.0 | 85 | 0.2 | 32.2 | 13.6 | 562 | 2.83 | 41.6 | 2.3 | 9.4 | 22 | 0.4 | 5.6 | 0.3 | 25 | 0.44 | 0.062 | 29 |
| 1241735 | Soil | 0.7 | 23.4 | 19.0 | 54 | 0.2 | 20.2 | 8.3 | 384 | 1.98 | 34.9 | 8.7 | 4.4 | 82 | 0.3 | 2.9 | 0.2 | 15 | 1.06 | 0.046 | 19 |
| REP 1241735 | QC | 0.7 | 24.5 | 19.5 | 56 | 0.3 | 21.9 | 8.6 | 401 | 2.06 | 36.5 | 8.5 | 5.5 | 86 | 0.3 | 3.2 | 0.3 | 16 | 1.13 | 0.050 | 23 |
| 1241736 | Soil | 0.8 | 25.9 | 18.7 | 62 | 0.1 | 26.0 | 10.8 | 451 | 2.52 | 18.3 | 9.0 | 7.1 | 34 | 0.1 | 2.2 | 0.3 | 19 | 0.52 | 0.039 | 27 |
| REP 1241736 | QC | 0.8 | 25.1 | 18.7 | 59 | 0.1 | 24.8 | 10.7 | 437 | 2.45 | 18.2 | 4.4 | 7.0 | 33 | 0.2 | 2.3 | 0.3 | 18 | 0.54 | 0.037 | 27 |
| 1240328 | Soil | 0.9 | 55.2 | 16.0 | 64 | 0.1 | 136.8 | 24.3 | 545 | 3.50 | 13.3 | 5.3 | 8.2 | 49 | <0.1 | 1.0 | 0.2 | 53 | 0.64 | 0.066 | 25 |
| REP 1240328 | QC | 1.0 | 53.4 | 16.3 | 62 | <0.1 | 131.6 | 23.6 | 557 | 3.48 | 13.6 | 3.8 | 8.0 | 49 | <0.1 | 1.0 | 0.2 | 55 | 0.66 | 0.066 | 25 |
| 1240339 | Soil | 1.2 | 27.9 | 15.4 | 58 | 0.1 | 28.5 | 10.3 | 435 | 2.64 | 16.4 | 5.1 | 9.5 | 24 | 0.1 | 1.9 | 0.2 | 23 | 0.32 | 0.035 | 30 |
| REP 1240339 | QC | 0.9 | 28.3 | 14.7 | 58 | 0.1 | 25.9 | 10.3 | 431 | 2.57 | 16.2 | 5.6 | 9.2 | 24 | <0.1 | 1.9 | 0.2 | 23 | 0.31 | 0.035 | 30 |
| 1241519 | Soil | 0.5 | 19.4 | 15.5 | 47 | <0.1 | 18.9 | 9.7 | 295 | 2.35 | 17.8 | 5.7 | 7.8 | 21 | 0.2 | 2.3 | 0.2 | 20 | 0.20 | 0.041 | 22 |
| REP 1241519 | QC | 0.5 | 20.3 | 15.5 | 47 | <0.1 | 19.5 | 10.0 | 292 | 2.41 | 17.8 | 6.8 | 8.2 | 21 | 0.1 | 2.4 | 0.2 | 20 | 0.21 | 0.043 | 22 |
| 1241540 | Soil | 0.6 | 15.3 | 10.6 | 45 | 0.1 | 17.5 | 7.9 | 319 | 1.92 | 11.8 | 14.0 | 4.7 | 28 | 0.1 | 1.3 | 0.1 | 22 | 0.45 | 0.036 | 20 |
| REP 1241540 | QC | 0.4 | 15.2 | 11.2 | 46 | 0.1 | 17.2 | 8.0 | 328 | 1.93 | 12.0 | 35.9 | 4.5 | 28 | 0.2 | 1.3 | 0.1 | 22 | 0.45 | 0.038 | 20 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 12.2 | 92.4 | 117.8 | 292 | 1.8 | 38.5 | 7.2 | 524 | 2.14 | 20.6 | 113.9 | 5.4 | 61 | 1.9 | 5.1 | 5.2 | 34 | 0.65 | 0.074 | 11 |
| STD DS9 | Standard | 14.0 | 114.6 | 118.4 | 308 | 1.8 | 42.6 | 8.1 | 593 | 2.38 | 25.5 | 124.3 | 5.9 | 65 | 2.6 | 5.1 | 5.8 | 46 | 0.72 | 0.082 | 13 |
| STD DS9 | Standard | 13.3 | 111.6 | 115.7 | 313 | 1.8 | 41.4 | 7.5 | 591 | 2.35 | 25.2 | 107.6 | 5.9 | 64 | 2.3 | 5.2 | 5.8 | 44 | 0.73 | 0.082 | 13 |
| STD DS9 | Standard | 14.2 | 102.3 | 117.2 | 304 | 2.0 | 41.2 | 7.9 | 587 | 2.37 | 25.4 | 136.4 | 5.5 | 67 | 2.2 | 5.1 | 5.3 | 48 | 0.72 | 0.078 | 14 |
| STD DS9 | Standard | 12.6 | 106.7 | 118.5 | 301 | 1.9 | 39.2 | 7.4 | 538 | 2.17 | 23.8 | 116.9 | 5.9 | 61 | 2.3 | 5.2 | 6.1 | 40 | 0.68 | 0.080 | 11 |
| STD DS9 | Standard | 13.5 | 106.4 | 125.7 | 305 | 1.9 | 41.0 | 7.5 | 580 | 2.31 | 24.9 | 129.9 | 6.5 | 73 | 2.3 | 5.9 | 6.7 | 37 | 0.74 | 0.080 | 14 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 08, 2012



# QUALITY CONTROL REPORT DAW12000090.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1241090 | Soil | 13 | 0.20 | 87 | 0.010 | <1 | 0.59 | 0.003 | 0.03 | 0.2 | 0.03 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1241090 | QC | 13 | 0.19 | 82 | 0.010 | 1 | 0.58 | 0.003 | 0.03 | 0.2 | 0.04 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241115 | Soil | 17 | 0.27 | 100 | 0.014 | <1 | 0.75 | 0.003 | 0.03 | 0.1 | 0.03 | 1.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| REP 1241115 | QC | 17 | 0.27 | 98 | 0.013 | <1 | 0.71 | 0.003 | 0.03 | 0.1 | 0.02 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| 1237581 | Soil | 22 | 0.37 | 220 | 0.004 | 1 | 1.07 | 0.003 | 0.03 | 0.1 | 0.05 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1237581 | QC | 21 | 0.37 | 222 | 0.004 | 2 | 1.10 | 0.003 | 0.04 | <0.1 | 0.05 | 1.9 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241725 | Soil | 22 | 0.36 | 131 | 0.018 | <1 | 0.95 | 0.007 | 0.10 | 0.5 | 0.05 | 2.6 | <0.1 | <0.05 | 3 | <0.5 | 1 | <0.2 |
| REP 1241725 | QC | 22 | 0.37 | 127 | 0.017 | <1 | 0.95 | 0.007 | 0.10 | 0.5 | 0.06 | 2.6 | 0.1 | <0.05 | 3 | 0.5 | <1 | <0.2 |
| 1241735 | Soil | 14 | 0.34 | 190 | 0.008 | 2 | 0.79 | 0.007 | 0.06 | 0.6 | 0.05 | 2.0 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| REP 1241735 | QC | 17 | 0.36 | 196 | 0.013 | 2 | 0.86 | 0.008 | 0.07 | 0.6 | 0.05 | 2.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241736 | Soil | 14 | 0.25 | 151 | 0.006 | 1 | 0.74 | 0.005 | 0.06 | 0.3 | 0.03 | 2.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1241736 | QC | 14 | 0.24 | 150 | 0.006 | 1 | 0.71 | 0.005 | 0.06 | 0.3 | 0.03 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1240328 | Soil | 192 | 1.57 | 225 | 0.051 | 1 | 1.83 | 0.007 | 0.09 | 0.1 | 0.01 | 3.5 | 0.2 | <0.05 | 5 | <0.5 | <1 | <0.2 |
| REP 1240328 | QC | 208 | 1.52 | 237 | 0.052 | 1 | 1.69 | 0.008 | 0.09 | 0.1 | 0.03 | 3.6 | 0.2 | <0.05 | 5 | <0.5 | 1 | <0.2 |
| 1240339 | Soil | 21 | 0.33 | 244 | 0.008 | <1 | 0.98 | 0.005 | 0.04 | 0.2 | 0.02 | 2.4 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| REP 1240339 | QC | 19 | 0.32 | 246 | 0.008 | 2 | 0.96 | 0.005 | 0.04 | 0.2 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1241519 | Soil | 16 | 0.30 | 99 | 0.013 | <1 | 0.66 | 0.005 | 0.05 | 0.3 | 0.04 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1241519 | QC | 16 | 0.31 | 101 | 0.013 | <1 | 0.69 | 0.006 | 0.05 | 0.4 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241540 | Soil | 14 | 0.27 | 158 | 0.010 | <1 | 0.70 | 0.004 | 0.03 | 0.5 | 0.03 | 1.6 | <0.1 | 0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1241540 | QC | 14 | 0.27 | 160 | 0.010 | <1 | 0.69 | 0.005 | 0.03 | 0.4 | 0.03 | 1.5 | <0.1 | 0.06 | 2 | <0.5 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 116 | 0.57 | 272 | 0.094 | 2 | 0.84 | 0.069 | 0.32 | 2.9 | 0.18 | 2.2 | 5.3 | 0.08 | 4 | 5.2 | 5 | 5.2 |
| STD DS9 | Standard | 128 | 0.62 | 305 | 0.107 | 2 | 0.95 | 0.093 | 0.37 | 3.1 | 0.23 | 2.6 | 5.8 | 0.19 | 5 | 5.2 | 7 | 5.1 |
| STD DS9 | Standard | 126 | 0.62 | 304 | 0.105 | 2 | 0.92 | 0.085 | 0.35 | 3.2 | 0.21 | 2.5 | 5.6 | 0.12 | 4 | 5.8 | 7 | 5.1 |
| STD DS9 | Standard | 128 | 0.64 | 295 | 0.114 | 3 | 1.01 | 0.091 | 0.36 | 3.0 | 0.21 | 2.6 | 5.8 | 0.12 | 5 | 5.4 | 5 | 5.5 |
| STD DS9 | Standard | 118 | 0.59 | 273 | 0.099 | 3 | 0.85 | 0.076 | 0.33 | 2.8 | 0.21 | 2.4 | 5.6 | 0.18 | 5 | 5.4 | 6 | 4.6 |
| STD DS9 | Standard | 120 | 0.62 | 317 | 0.114 | 2 | 0.94 | 0.082 | 0.35 | 3.1 | 0.22 | 2.4 | 5.7 | 0.16 | 5 | 5.5 | 7 | 5.4 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |

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Project: MQ
Report Date: August 08, 2012



# QUALITY CONTROL REPORT DAW12000090.1

| | | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 | 1DX15 La ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | 5 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 08, 2012



# QUALITY CONTROL REPORT DAW12000090.1

| | | 1DX15 Cr ppm 1 | 1DX15 Mg % 0.01 | 1DX15 Ba ppm 1 | 1DX15 Ti % 0.001 | 1DX15 B ppm 1 | 1DX15 Al % 0.01 | 1DX15 Na % 0.001 | 1DX15 K % 0.01 | 1DX15 W ppm 0.1 | 1DX15 Hg ppm 0.01 | 1DX15 Sc ppm 0.1 | 1DX15 Tl ppm 0.1 | 1DX15 S % 0.05 | 1DX15 Ga ppm 1 | 1DX15 Se ppm 0.5 | 1DX15 Sn ppm 1 | 1DX15 Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | 0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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Appendix V: Silt Sample Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 21, 2012
Report Date: June 30, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS WHI12000152.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQsilts1
P.O. Number
Number of Samples: 10

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 10 | Dry at 60C | | | WHI |
| SS80 | 10 | Dry at 60C sieve 100g to -80 mesh | | | WHI |
| RJSV | 10 | Saving all or part of Soil Reject | | | WHI |
| 1DX2 | 10 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: June 30, 2012



# CERTIFICATE OF ANALYSIS WHI12000152.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1239501 | Silt | 0.5 | 19.9 | 13.4 | 48 | <0.1 | 20.4 | 10.2 | 441 | 2.05 | 7.9 | 1.7 | 10.2 | 21 | 0.1 | 3.2 | 0.2 | 14 | 0.20 | 0.036 | 32 |
| 1239502 | Silt | 0.5 | 21.1 | 13.2 | 59 | <0.1 | 23.5 | 13.2 | 604 | 2.52 | 9.5 | 1.2 | 8.2 | 17 | 0.1 | 1.7 | 0.2 | 16 | 0.23 | 0.035 | 26 |
| 1239503 | Silt | 0.6 | 27.4 | 15.8 | 78 | 0.1 | 28.2 | 13.3 | 574 | 2.81 | 12.5 | 2.2 | 5.7 | 137 | 0.4 | 3.1 | 0.2 | 23 | 0.76 | 0.056 | 17 |
| 1239504 | Silt | 0.5 | 17.3 | 12.4 | 51 | <0.1 | 20.4 | 9.8 | 416 | 2.01 | 15.3 | 1.2 | 6.4 | 39 | 0.1 | 2.8 | 0.2 | 16 | 0.30 | 0.036 | 19 |
| 1239505 | Silt | 0.8 | 23.3 | 54.0 | 148 | 0.2 | 39.1 | 19.9 | 1131 | 2.72 | 82.7 | 1.6 | 7.8 | 11 | 0.8 | 26.3 | 0.7 | 17 | 0.14 | 0.036 | 28 |
| 1239506 | Silt | 0.5 | 20.1 | 18.4 | 47 | <0.1 | 19.6 | 8.8 | 325 | 1.85 | 25.3 | 4.6 | 6.2 | 24 | 0.2 | 3.9 | 0.2 | 11 | 0.53 | 0.035 | 13 |
| 1239507 | Silt | 0.5 | 20.8 | 18.6 | 48 | <0.1 | 19.0 | 9.1 | 430 | 1.77 | 25.6 | 2.0 | 6.7 | 25 | 0.2 | 3.8 | 0.2 | 15 | 0.46 | 0.044 | 18 |
| 1238408 | Silt | 0.8 | 21.3 | 21.5 | 112 | <0.1 | 32.3 | 14.1 | 1019 | 2.65 | 27.0 | 0.7 | 6.6 | 18 | 0.7 | 5.9 | 0.3 | 18 | 0.22 | 0.036 | 22 |
| 1238409 | Silt | 0.9 | 24.6 | 11.3 | 50 | <0.1 | 21.4 | 9.2 | 293 | 1.99 | 7.6 | 1.8 | 5.2 | 67 | 0.1 | 1.5 | 0.2 | 40 | 0.59 | 0.061 | 20 |
| 1238749 | Silt | 0.7 | 26.2 | 24.0 | 53 | 0.1 | 24.7 | 12.8 | 638 | 2.00 | 36.1 | 3.1 | 6.9 | 28 | 0.4 | 4.5 | 0.3 | 17 | 0.41 | 0.042 | 19 |

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Project: MQ
Report Date: June 30, 2012



# CERTIFICATE OF ANALYSIS WHI12000152.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1239501 | Silt | 10 | 0.21 | 65 | 0.009 | <1 | 0.50 | 0.002 | 0.04 | 0.1 | 0.03 | 1.1 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1239502 | Silt | 14 | 0.35 | 89 | 0.008 | <1 | 0.79 | 0.002 | 0.03 | 0.2 | 0.02 | 1.3 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239503 | Silt | 20 | 0.48 | 134 | 0.009 | 2 | 0.95 | 0.005 | 0.07 | 0.3 | 0.05 | 2.0 | <0.1 | 0.09 | 3 | 1.1 | 2 | <0.2 |
| 1239504 | Silt | 13 | 0.30 | 95 | 0.010 | <1 | 0.60 | 0.003 | 0.03 | 0.3 | 0.01 | 1.1 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239505 | Silt | 14 | 0.25 | 85 | 0.009 | <1 | 0.61 | 0.002 | 0.02 | 0.2 | 0.03 | 1.2 | 0.2 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239506 | Silt | 8 | 0.21 | 53 | 0.006 | <1 | 0.30 | 0.002 | 0.02 | 0.3 | 0.02 | 0.9 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1239507 | Silt | 11 | 0.26 | 85 | 0.013 | <1 | 0.46 | 0.005 | 0.04 | 0.3 | 0.02 | 1.2 | <0.1 | <0.05 | 1 | <0.5 | <1 | <0.2 |
| 1238408 | Silt | 15 | 0.25 | 103 | 0.008 | <1 | 0.58 | 0.002 | 0.03 | 0.3 | 0.04 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238409 | Silt | 22 | 0.34 | 134 | 0.028 | <1 | 0.77 | 0.005 | 0.06 | 0.2 | 0.04 | 2.5 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238749 | Silt | 13 | 0.26 | 138 | 0.013 | <1 | 0.51 | 0.005 | 0.05 | 0.4 | 0.03 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: June 30, 2012



# QUALITY CONTROL REPORT WHI12000152.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 13.1 | 110.2 | 115.0 | 286 | 1.7 | 41.1 | 7.6 | 545 | 2.22 | 23.0 | 109.0 | 6.0 | 64 | 2.2 | 5.2 | 5.9 | 41 | 0.67 | 0.073 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: June 30, 2012



# QUALITY CONTROL REPORT WHI12000152.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 120 | 0.57 | 298 | 0.105 | 2 | 0.85 | 0.092 | 0.38 | 2.9 | 0.20 | 2.4 | 5.3 | 0.16 | 4 | 4.8 | 6 | 5.0 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: June 25, 2012
Report Date: July 05, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS DAW12000050.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Silts 2
P.O. Number
Number of Samples: 10

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 10 | Dry at 60C | | | DAW |
| SS80 | 10 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 10 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 10 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000050.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1238410 | Silt | 0.7 | 26.4 | 16.7 | 58 | 0.1 | 25.4 | 9.3 | 232 | 2.61 | 8.2 | 2.7 | 3.9 | 27 | <0.1 | 1.5 | 0.2 | 20 | 0.29 | 0.037 | 36 |
| 1238411 | Silt | 0.5 | 18.2 | 10.8 | 49 | <0.1 | 20.6 | 8.8 | 318 | 2.16 | 7.8 | 9.7 | 8.4 | 31 | <0.1 | 0.6 | 0.2 | 18 | 0.31 | 0.049 | 27 |
| 1238412 | Silt | 0.6 | 25.2 | 16.2 | 57 | 0.1 | 25.9 | 10.6 | 441 | 2.38 | 9.6 | 2.5 | 7.0 | 63 | 0.2 | 0.9 | 0.2 | 19 | 0.69 | 0.049 | 25 |
| 1238413 | Silt | 0.5 | 20.6 | 13.8 | 61 | 0.1 | 23.8 | 9.3 | 292 | 2.28 | 7.9 | 3.1 | 7.8 | 44 | <0.1 | 0.7 | 0.2 | 20 | 0.46 | 0.051 | 27 |
| 1238414 | Silt | 0.8 | 18.2 | 7.5 | 54 | <0.1 | 18.3 | 6.1 | 303 | 1.59 | 11.6 | 1.6 | 3.8 | 43 | 0.3 | 0.8 | 0.1 | 19 | 1.90 | 0.068 | 10 |
| 1238415 | Silt | 0.4 | 19.0 | 12.0 | 59 | <0.1 | 24.4 | 10.2 | 496 | 2.27 | 4.3 | 11.8 | 6.1 | 34 | 0.1 | 0.3 | 0.2 | 19 | 0.39 | 0.045 | 23 |
| 1238416 | Silt | 0.4 | 20.8 | 12.1 | 61 | <0.1 | 24.1 | 10.2 | 544 | 2.20 | 4.3 | 1.5 | 5.7 | 39 | 0.1 | 0.3 | 0.2 | 20 | 0.47 | 0.049 | 25 |
| 1239508 | Silt | 0.5 | 13.5 | 9.6 | 52 | <0.1 | 17.7 | 8.8 | 342 | 1.89 | 6.3 | 4.2 | 5.0 | 21 | 0.1 | 1.1 | 0.1 | 20 | 0.33 | 0.039 | 22 |
| 1239509 | Silt | 0.6 | 22.5 | 15.5 | 60 | <0.1 | 24.5 | 10.6 | 714 | 2.37 | 9.9 | 2.9 | 7.4 | 29 | 0.2 | 2.7 | 0.2 | 18 | 0.35 | 0.051 | 25 |
| 1239897 | Silt | 0.9 | 22.3 | 7.7 | 69 | 0.1 | 24.4 | 8.3 | 306 | 2.04 | 8.0 | 2.6 | 4.0 | 46 | 0.4 | 0.9 | 0.1 | 39 | 1.10 | 0.073 | 12 |

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 05, 2012



# CERTIFICATE OF ANALYSIS DAW12000050.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1238410 | Silt | 14 | 0.24 | 140 | 0.004 | <1 | 0.77 | 0.004 | 0.03 | 0.2 | 0.03 | 1.2 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238411 | Silt | 13 | 0.33 | 94 | 0.010 | <1 | 0.78 | 0.003 | 0.02 | 0.2 | 0.03 | 1.4 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238412 | Silt | 15 | 0.35 | 121 | 0.009 | 1 | 0.77 | 0.004 | 0.04 | <0.1 | 0.04 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |
| 1238413 | Silt | 16 | 0.38 | 120 | 0.011 | <1 | 0.91 | 0.005 | 0.04 | 0.1 | 0.02 | 1.8 | <0.1 | <0.05 | 3 | <0.5 | 2 | <0.2 |
| 1238414 | Silt | 11 | 0.78 | 165 | 0.020 | <1 | 0.44 | 0.005 | 0.02 | 0.2 | 0.02 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238415 | Silt | 17 | 0.34 | 102 | 0.009 | <1 | 0.73 | 0.003 | 0.02 | 0.1 | 0.06 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1238416 | Silt | 17 | 0.37 | 120 | 0.010 | <1 | 0.81 | 0.004 | 0.04 | 0.1 | 0.07 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239508 | Silt | 13 | 0.31 | 129 | 0.009 | <1 | 0.71 | 0.004 | 0.03 | 0.2 | 0.03 | 1.4 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239509 | Silt | 15 | 0.27 | 105 | 0.012 | 1 | 0.57 | 0.004 | 0.04 | 0.3 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239897 | Silt | 21 | 0.57 | 292 | 0.036 | 2 | 0.82 | 0.013 | 0.06 | 0.3 | 0.03 | 2.8 | <0.1 | <0.05 | 3 | <0.5 | <1 | <0.2 |

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 05, 2012



# QUALITY CONTROL REPORT DAW12000050.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 14.0 | 114.9 | 126.9 | 323 | 1.9 | 42.9 | 7.6 | 592 | 2.40 | 24.7 | 123.8 | 6.6 | 74 | 2.3 | 5.6 | 6.5 | 45 | 0.74 | 0.079 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 05, 2012



# QUALITY CONTROL REPORT DAW12000050.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 128 | 0.63 | 319 | 0.119 | 2 | 0.96 | 0.089 | 0.36 | 3.0 | 0.21 | 2.3 | 5.7 | 0.16 | 5 | 5.2 | 6 | 5.1 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <1 | <0.2 |

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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Dawson City
Received: July 04, 2012
Report Date: August 04, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS DAW12000099.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Silts 3
P.O. Number
Number of Samples: 10

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 10 | Dry at 60C | | | DAW |
| SS80 | 10 | Dry at 60C sieve 100g to -80 mesh | | | DAW |
| RJSV | 10 | Saving all or part of Soil Reject | | | DAW |
| 1DX2 | 10 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 04, 2012



# CERTIFICATE OF ANALYSIS DAW12000099.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| 1241141 | Silt | 0.5 | 23.8 | 15.5 | 58 | <0.1 | 23.9 | 11.4 | 364 | 2.31 | 7.4 | 1.7 | 7.1 | 25 | 0.1 | 3.1 | 0.2 | 18 | 0.29 | 0.045 | 28 |
| 1241142 | Silt | 0.5 | 24.1 | 15.2 | 55 | <0.1 | 23.1 | 10.6 | 369 | 2.14 | 6.3 | 2.4 | 6.3 | 32 | <0.1 | 2.5 | 0.2 | 18 | 0.37 | 0.046 | 26 |
| 1241143 | Silt | 0.4 | 25.5 | 14.3 | 57 | <0.1 | 25.2 | 11.2 | 367 | 2.21 | 6.5 | 1.0 | 6.3 | 32 | 0.2 | 2.4 | 0.2 | 20 | 0.40 | 0.050 | 26 |
| 1241144 | Silt | 0.5 | 23.1 | 13.7 | 49 | <0.1 | 21.4 | 10.1 | 309 | 2.06 | 5.7 | 0.6 | 6.5 | 30 | 0.1 | 2.7 | 0.2 | 18 | 0.35 | 0.042 | 27 |
| 1241145 | Silt | 0.5 | 23.1 | 14.6 | 47 | <0.1 | 21.6 | 10.4 | 313 | 2.11 | 5.8 | 18.8 | 7.1 | 21 | <0.1 | 3.1 | 0.2 | 16 | 0.25 | 0.040 | 27 |
| 1241146 | Silt | 0.4 | 21.6 | 13.5 | 56 | <0.1 | 22.4 | 10.4 | 359 | 2.12 | 4.3 | 2.8 | 5.7 | 34 | 0.1 | 1.9 | 0.1 | 19 | 0.42 | 0.049 | 26 |
| 1241147 | Silt | 0.6 | 31.0 | 19.6 | 73 | 0.2 | 32.2 | 15.3 | 957 | 2.76 | 6.9 | 1.3 | 3.9 | 45 | 0.4 | 1.7 | 0.2 | 24 | 0.58 | 0.066 | 35 |
| 1241148 | Silt | 0.5 | 18.3 | 13.2 | 53 | 0.1 | 18.3 | 8.0 | 287 | 1.85 | 4.4 | 4.1 | 2.6 | 24 | 0.1 | 0.6 | 0.1 | 22 | 0.31 | 0.051 | 25 |
| 1205951 | Silt | 0.7 | 25.4 | 20.5 | 74 | 0.1 | 22.5 | 10.0 | 314 | 2.14 | 38.2 | 7.6 | 7.4 | 31 | 0.4 | 4.1 | 0.2 | 22 | 0.35 | 0.067 | 25 |
| 1239512 | Silt | 0.5 | 18.9 | 13.2 | 66 | <0.1 | 22.0 | 11.8 | 1548 | 2.31 | 10.1 | 11.0 | 5.2 | 40 | 0.3 | 1.6 | 0.1 | 23 | 0.52 | 0.055 | 21 |

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Phone (604) 253-3158 Fax (604) 253-1716
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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 04, 2012



# CERTIFICATE OF ANALYSIS DAW12000099.1

| | | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| 1241141 | Silt | | 15 | 0.20 | 82 | 0.007 | <1 | 0.54 | 0.002 | 0.05 | 0.2 | 0.03 | 1.7 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241142 | Silt | | 16 | 0.21 | 94 | 0.007 | 2 | 0.56 | 0.002 | 0.05 | 0.1 | 0.05 | 1.8 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241143 | Silt | | 19 | 0.24 | 97 | 0.008 | 1 | 0.62 | 0.002 | 0.06 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241144 | Silt | | 15 | 0.20 | 89 | 0.007 | <1 | 0.53 | 0.003 | 0.05 | 0.2 | 0.04 | 1.6 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241145 | Silt | | 14 | 0.17 | 79 | 0.005 | 1 | 0.47 | 0.002 | 0.04 | 0.2 | 0.04 | 1.5 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1241146 | Silt | | 15 | 0.26 | 110 | 0.007 | 1 | 0.67 | 0.003 | 0.05 | 0.2 | 0.05 | 1.8 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |
| 1241147 | Silt | | 19 | 0.28 | 180 | 0.007 | 1 | 0.86 | 0.003 | 0.06 | 0.2 | 0.07 | 2.1 | 0.1 | 0.06 | 2 | 0.6 | <1 | <0.2 |
| 1241148 | Silt | | 16 | 0.27 | 120 | 0.007 | 1 | 0.80 | 0.003 | 0.04 | 0.2 | 0.04 | 1.5 | 0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1205951 | Silt | | 17 | 0.24 | 64 | 0.021 | <1 | 0.58 | 0.009 | 0.07 | 2.4 | 0.04 | 2.0 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| 1239512 | Silt | | 17 | 0.27 | 200 | 0.010 | <1 | 0.70 | 0.004 | 0.05 | 0.2 | 0.05 | 2.2 | <0.1 | 0.07 | 2 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 04, 2012



# QUALITY CONTROL REPORT DAW12000099.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P | La |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | MDL | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 | 0.001 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1241143 | Silt | 0.4 | 25.5 | 14.3 | 57 | <0.1 | 25.2 | 11.2 | 367 | 2.21 | 6.5 | 1.0 | 6.3 | 32 | 0.2 | 2.4 | 0.2 | 20 | 0.40 | 0.050 | 26 |
| REP 1241143 | QC | 0.5 | 24.1 | 14.4 | 56 | <0.1 | 23.9 | 10.8 | 352 | 2.18 | 6.2 | 2.5 | 6.4 | 31 | 0.1 | 2.2 | 0.2 | 19 | 0.39 | 0.047 | 26 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 14.0 | 114.6 | 118.4 | 308 | 1.8 | 42.6 | 8.1 | 593 | 2.38 | 25.5 | 124.3 | 5.9 | 65 | 2.6 | 5.1 | 5.8 | 46 | 0.72 | 0.082 | 13 |
| STD DS9 Expected | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 | 0.0819 | 13.3 |
| BLK | Blank | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 | <0.001 | <1 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: August 04, 2012



# QUALITY CONTROL REPORT DAW12000099.1

| | Method | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Sn | Te |
| | Unit | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | MDL | 1 | 0.01 | 1 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | |
| 1241143 | Silt | 19 | 0.24 | 97 | 0.008 | 1 | 0.62 | 0.002 | 0.06 | 0.2 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | <0.5 | <1 | <0.2 |
| REP 1241143 | QC | 19 | 0.23 | 94 | 0.008 | <1 | 0.61 | 0.003 | 0.06 | 0.1 | 0.04 | 1.9 | <0.1 | <0.05 | 2 | 0.6 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 128 | 0.62 | 305 | 0.107 | 2 | 0.95 | 0.093 | 0.37 | 3.1 | 0.23 | 2.6 | 5.8 | 0.19 | 5 | 5.2 | 7 | 5.1 |
| STD DS9 Expected | | 121 | 0.6165 | 295 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 2.5 | 5.3 | 0.1615 | 4.59 | 5.2 | | 5.02 |
| BLK | Blank | <1 | <0.01 | <1 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | 0.05 | <1 | <0.5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

Appendix VI: Rock Sample Assay Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 21, 2012
Report Date: July 13, 2012
Page: 1 of 6

# CERTIFICATE OF ANALYSIS WHI12000144.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQRX1
P.O. Number
Number of Samples: 129

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| R200-250 | 129 | Crush, split and pulverize 250 g rock to 200 mesh | | | WHI |
| 3B | 129 | Fire assay fusion Au by ICP-ES | 30 | Completed | VAN |
| 1DX | 129 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 0.5 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1206001 | Rock | 0.59 | <2 | 0.2 | 14.7 | 6.9 | 14 | <0.1 | 8.7 | 4.7 | 283 | 1.33 | <0.5 | 1.5 | 5.8 | 2 | <0.1 | <0.1 | <0.1 | 5 | <0.01 |
| 1206002 | Rock | 0.65 | 3 | 0.2 | 9.0 | 5.1 | 6 | <0.1 | 7.8 | 4.3 | 236 | 1.23 | 0.9 | 1.5 | 5.9 | 3 | <0.1 | 1.1 | 0.1 | 3 | <0.01 |
| 1206003 | Rock | 0.41 | <2 | 0.2 | 4.6 | 4.0 | 9 | <0.1 | 5.2 | 2.1 | 96 | 0.91 | 0.6 | 0.8 | 3.9 | 2 | <0.1 | 0.2 | 0.1 | 3 | <0.01 |
| 1206004 | Rock | 0.63 | <2 | <0.1 | 6.3 | 3.6 | 18 | <0.1 | 7.8 | 3.2 | 237 | 0.99 | <0.5 | <0.5 | 5.2 | 8 | <0.1 | <0.1 | <0.1 | 6 | 0.03 |
| 1206005 | Rock | 0.39 | 3 | 0.1 | 1.4 | 6.5 | 8 | <0.1 | 2.8 | 1.1 | 66 | 0.71 | 1.4 | 5.3 | 2.3 | 9 | <0.1 | 1.2 | 0.3 | <2 | 0.08 |
| 1206006 | Rock | 0.41 | <2 | <0.1 | 6.3 | 3.3 | 7 | <0.1 | 6.4 | 3.5 | 110 | 1.15 | <0.5 | 4.3 | 7.9 | 3 | <0.1 | 0.7 | <0.1 | 4 | 0.02 |
| 1206007 | Rock | 0.46 | <2 | <0.1 | 8.0 | 8.3 | 19 | <0.1 | 7.2 | 3.6 | 66 | 0.88 | <0.5 | 4.1 | 6.1 | 3 | <0.1 | 1.5 | <0.1 | 4 | 0.02 |
| 1206008 | Rock | 0.54 | <2 | <0.1 | 9.7 | 2.0 | 16 | <0.1 | 4.9 | 1.9 | 67 | 0.95 | 1.4 | 2.9 | 2.7 | 1 | <0.1 | 1.8 | <0.1 | <2 | <0.01 |
| 1206009 | Rock | 0.46 | 2 | <0.1 | 5.0 | 9.6 | 41 | <0.1 | 6.1 | 3.2 | 510 | 1.04 | <0.5 | 2.8 | 8.1 | 37 | <0.1 | 0.6 | <0.1 | 4 | 0.42 |
| 1206010 | Rock | 0.52 | 3 | 0.2 | 30.8 | 10.8 | 41 | <0.1 | 22.5 | 11.0 | 365 | 2.08 | 1.2 | 3.6 | 7.3 | 6 | <0.1 | 0.7 | <0.1 | 6 | 0.05 |
| 1206011 | Rock | 0.43 | <2 | 0.3 | 17.4 | 9.7 | 37 | <0.1 | 14.3 | 9.1 | 612 | 1.96 | 0.9 | 3.4 | 6.6 | 5 | <0.1 | 0.7 | <0.1 | 7 | 0.04 |
| 1206012 | Rock | 0.60 | <2 | 0.4 | 28.0 | 2.4 | 40 | <0.1 | 43.1 | 23.1 | 469 | 3.24 | 0.8 | 2.6 | 1.7 | 45 | <0.1 | 0.2 | <0.1 | 42 | 0.65 |
| 1206013 | Rock | 0.45 | <2 | 0.1 | 5.3 | 7.5 | 22 | <0.1 | 10.0 | 5.6 | 188 | 1.49 | 4.9 | 2.9 | 8.3 | 4 | <0.1 | 0.2 | <0.1 | 5 | 0.07 |
| 1206014 | Rock | 0.54 | <2 | 0.2 | 9.3 | 9.4 | 24 | <0.1 | 9.5 | 5.2 | 281 | 1.42 | 3.1 | 2.4 | 5.2 | 3 | <0.1 | 1.1 | <0.1 | 4 | 0.02 |
| 1206015 | Rock | 0.62 | <2 | 0.2 | 8.8 | 18.0 | 23 | <0.1 | 14.1 | 4.4 | 183 | 1.31 | <0.5 | 3.1 | 5.5 | 3 | <0.1 | <0.1 | <0.1 | 3 | <0.01 |
| 1206016 | Rock | 0.60 | <2 | 0.1 | 4.3 | 6.3 | 13 | <0.1 | 6.1 | 2.8 | 192 | 0.92 | 0.5 | 4.2 | 5.6 | 7 | <0.1 | <0.1 | <0.1 | 5 | 0.17 |
| 1206017 | Rock | 0.68 | <2 | 0.2 | 6.4 | 12.7 | 23 | <0.1 | 5.9 | 3.8 | 441 | 1.26 | 0.7 | 2.3 | 4.9 | 8 | <0.1 | <0.1 | <0.1 | <2 | 0.13 |
| 1206018 | Rock | 0.51 | <2 | 0.2 | 21.3 | 14.7 | 78 | <0.1 | 10.9 | 5.1 | 240 | 2.78 | 0.7 | 2.2 | 7.2 | 3 | <0.1 | <0.1 | <0.1 | 9 | <0.01 |
| 1206019 | Rock | 0.53 | <2 | 0.3 | 7.6 | 5.4 | 11 | <0.1 | 12.9 | 4.1 | 415 | 0.76 | 0.5 | 2.1 | 4.8 | 2 | <0.1 | <0.1 | <0.1 | 2 | 0.01 |
| 1206020 | Rock | 0.66 | <2 | 0.2 | 12.9 | 8.6 | 58 | <0.1 | 37.9 | 21.6 | 511 | 2.23 | <0.5 | 3.1 | 6.6 | 3 | <0.1 | <0.1 | <0.1 | 4 | <0.01 |
| 1206021 | Rock | 0.61 | <2 | <0.1 | 3.6 | 6.1 | 7 | <0.1 | 5.0 | 2.0 | 357 | 0.69 | 1.2 | 2.1 | 6.0 | 2 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1206022 | Rock | 0.41 | <2 | 0.2 | 3.2 | 5.6 | 24 | <0.1 | 6.9 | 3.4 | 328 | 1.38 | <0.5 | 2.3 | 6.1 | 3 | <0.1 | <0.1 | <0.1 | 6 | <0.01 |
| 1206023 | Rock | 0.35 | <2 | 0.2 | 7.1 | 6.9 | 21 | <0.1 | 13.3 | 8.3 | 312 | 1.17 | 1.3 | 2.0 | 3.6 | 4 | <0.1 | <0.1 | <0.1 | 7 | 0.03 |
| 1206024 | Rock | 0.44 | <2 | 0.6 | 7.2 | 6.0 | 18 | <0.1 | 10.0 | 5.3 | 124 | 1.37 | 0.8 | 1.4 | 5.5 | 27 | <0.1 | 0.2 | <0.1 | 9 | 0.07 |
| 1206025 | Rock | 0.40 | 4 | 0.2 | 6.2 | 4.7 | 4 | <0.1 | 5.3 | 2.2 | 101 | 0.73 | <0.5 | 1.7 | 2.7 | 6 | <0.1 | <0.1 | <0.1 | <2 | 0.04 |
| 1206026 | Rock | 0.34 | 2 | 0.1 | 6.1 | 5.6 | 28 | <0.1 | 7.3 | 3.4 | 169 | 1.37 | 0.5 | 2.0 | 4.6 | 2 | <0.1 | <0.1 | <0.1 | 5 | <0.01 |
| 1206027 | Rock | 0.62 | <2 | 0.6 | 4.7 | 10.9 | 25 | <0.1 | 7.5 | 3.4 | 131 | 0.93 | <0.5 | 3.5 | 7.8 | 12 | <0.1 | 0.1 | <0.1 | 15 | 0.02 |
| 1206028 | Rock | 0.47 | <2 | 0.8 | 5.1 | 7.1 | 9 | <0.1 | 4.0 | 3.3 | 108 | 0.57 | 2.6 | 1.6 | 4.8 | 6 | <0.1 | 2.7 | <0.1 | 4 | 0.02 |
| 1206029 | Rock | 0.83 | <2 | 0.1 | 22.8 | 7.5 | 27 | <0.1 | 10.7 | 5.8 | 852 | 1.77 | 1.1 | 2.0 | 4.4 | 182 | <0.1 | <0.1 | <0.1 | 9 | 2.74 |
| 1205751 | Rock | 1.00 | <2 | 0.8 | 50.9 | 218.3 | 232 | 0.8 | 14.3 | 4.7 | 50 | 7.62 | 1084 | 3.0 | 10.8 | 15 | 0.5 | 424.9 | 0.3 | 28 | 0.02 |

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1206001 | Rock | 0.012 | 8 | 7 | 0.20 | 35 | 0.002 | <20 | 0.51 | 0.009 | 0.13 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 2 | 1 | <0.2 |
| 1206002 | Rock | 0.010 | 12 | 4 | 0.01 | 35 | 0.002 | <20 | 0.27 | 0.002 | 0.11 | <0.1 | <0.01 | 0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206003 | Rock | 0.009 | 3 | 6 | 0.09 | 31 | 0.003 | <20 | 0.31 | 0.016 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206004 | Rock | 0.016 | 11 | 7 | 0.18 | 66 | 0.021 | <20 | 0.48 | 0.017 | 0.24 | <0.1 | <0.01 | 0.1 | <0.05 | 0.6 | <0.5 | 1 | <1 | <0.2 |
| 1206005 | Rock | 0.039 | 7 | 4 | 0.02 | 31 | 0.002 | <20 | 0.16 | 0.002 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1206006 | Rock | 0.015 | 17 | 5 | 0.01 | 35 | 0.001 | <20 | 0.23 | 0.002 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206007 | Rock | 0.016 | 14 | 5 | 0.01 | 38 | <0.001 | <20 | 0.27 | 0.002 | 0.16 | <0.1 | 0.02 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206008 | Rock | 0.008 | 7 | 3 | 0.01 | 26 | <0.001 | <20 | 0.13 | 0.002 | 0.11 | <0.1 | 0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1206009 | Rock | 0.015 | 15 | 5 | 0.07 | 73 | 0.002 | <20 | 0.27 | 0.010 | 0.15 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206010 | Rock | 0.016 | 16 | 7 | 0.19 | 77 | 0.002 | <20 | 0.55 | 0.003 | 0.18 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 2 | <1 | <0.2 |
| 1206011 | Rock | 0.015 | 11 | 8 | 0.19 | 72 | 0.002 | <20 | 0.59 | 0.004 | 0.14 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 2 | <1 | <0.2 |
| 1206012 | Rock | 0.144 | 8 | 151 | 1.48 | 8 | 0.180 | <20 | 1.82 | 0.021 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 1.7 | <0.5 | 4 | <1 | <0.2 |
| 1206013 | Rock | 0.010 | 15 | 9 | 0.24 | 60 | 0.003 | <20 | 0.58 | 0.023 | 0.14 | <0.1 | 0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 2 | <1 | <0.2 |
| 1206014 | Rock | 0.013 | 11 | 4 | 0.05 | 41 | 0.003 | <20 | 0.29 | 0.002 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206015 | Rock | 0.007 | 12 | 5 | 0.09 | 21 | 0.002 | <20 | 0.29 | 0.016 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1206016 | Rock | 0.005 | 10 | 10 | 0.15 | 13 | <0.001 | <20 | 0.31 | 0.028 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | 1 | <1 | <0.2 |
| 1206017 | Rock | 0.006 | 9 | 4 | 0.08 | 20 | <0.001 | <20 | 0.23 | 0.016 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1206018 | Rock | 0.009 | 7 | 15 | 0.56 | 22 | 0.003 | <20 | 1.25 | 0.015 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 4 | <1 | <0.2 |
| 1206019 | Rock | 0.006 | 15 | 5 | 0.06 | 18 | <0.001 | <20 | 0.19 | 0.022 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1206020 | Rock | 0.009 | 13 | 8 | 0.33 | 27 | 0.001 | <20 | 0.80 | 0.010 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 2 | <1 | <0.2 |
| 1206021 | Rock | 0.009 | 14 | 4 | 0.02 | 12 | <0.001 | <20 | 0.12 | 0.030 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206022 | Rock | 0.008 | 13 | 12 | 0.25 | 18 | 0.001 | <20 | 0.57 | 0.028 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1206023 | Rock | 0.015 | 8 | 8 | 0.16 | 26 | 0.004 | <20 | 0.41 | 0.016 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1206024 | Rock | 0.012 | 9 | 12 | 0.18 | 28 | 0.027 | <20 | 0.43 | 0.023 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 2 | <1 | <0.2 |
| 1206025 | Rock | 0.010 | 8 | 3 | 0.03 | 51 | <0.001 | <20 | 0.16 | <0.001 | 0.09 | <0.1 | 0.02 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206026 | Rock | 0.007 | 10 | 9 | 0.24 | 15 | 0.002 | <20 | 0.57 | 0.014 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 2 | <1 | <0.2 |
| 1206027 | Rock | 0.007 | 12 | 15 | 0.16 | 39 | 0.016 | <20 | 0.27 | 0.033 | 0.20 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | <0.5 | 2 | <1 | <0.2 |
| 1206028 | Rock | 0.009 | 7 | 6 | 0.03 | 33 | 0.002 | <20 | 0.22 | 0.006 | 0.07 | <0.1 | 0.17 | <0.1 | <0.05 | 1.0 | <0.5 | <1 | <1 | <0.2 |
| 1206029 | Rock | 0.014 | 9 | 11 | 0.42 | 31 | 0.009 | <20 | 0.79 | 0.013 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | <0.5 | 2 | <1 | <0.2 |
| 1205751 | Rock | 0.062 | 18 | 15 | 0.02 | 69 | <0.001 | <20 | 0.40 | <0.001 | 0.17 | 0.4 | 0.05 | 1.8 | <0.05 | 2.0 | <0.5 | 3 | 5 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205752 | Rock | 1.30 | <2 | 0.1 | 2.2 | 7.1 | 7 | <0.1 | 2.7 | 1.2 | 71 | 0.52 | 5.9 | 3.1 | 2.7 | 3 | <0.1 | 6.0 | <0.1 | <2 | <0.01 |
| 1205753 | Rock | 0.94 | <2 | <0.1 | 2.7 | 5.5 | 4 | <0.1 | 1.4 | 0.4 | 34 | 0.49 | 0.6 | 3.5 | 0.6 | 4 | <0.1 | 0.3 | <0.1 | <2 | 0.04 |
| 1205754 | Rock | 1.03 | <2 | 0.3 | 13.2 | 24.7 | 88 | <0.1 | 30.5 | 4.6 | 151 | 4.25 | 34.7 | 4.6 | 7.6 | 10 | 0.2 | 11.0 | <0.1 | 3 | <0.01 |
| 1205755 | Rock | 1.11 | <2 | 0.3 | 37.0 | 18.7 | 41 | <0.1 | 9.8 | 1.1 | 32 | 2.34 | 35.2 | 2.6 | 27.4 | 6 | 0.2 | 11.6 | <0.1 | 8 | <0.01 |
| 1205756 | Rock | 0.85 | <2 | 0.3 | 9.9 | 23.1 | 44 | 0.2 | 6.1 | 0.9 | 31 | 1.08 | 41.4 | 1.7 | 11.3 | 22 | <0.1 | 15.1 | 0.3 | 6 | <0.01 |
| 1205757 | Rock | 1.05 | 6 | 0.2 | 4.2 | 79.1 | 8 | 0.2 | 1.5 | 0.3 | 17 | 0.67 | 4.4 | 2.1 | 4.3 | 6 | <0.1 | 3.5 | 0.2 | 6 | <0.01 |
| 1205758 | Rock | 0.93 | <2 | 0.1 | 8.7 | 5.8 | 20 | <0.1 | 7.2 | 1.8 | 52 | 0.69 | <0.5 | <0.5 | 5.2 | 3 | <0.1 | 0.8 | <0.1 | 4 | <0.01 |
| 1205759 | Rock | 0.47 | <2 | 0.1 | 16.9 | 30.6 | 47 | 0.2 | 7.0 | 1.9 | 44 | 0.54 | 2.3 | 0.8 | 4.7 | 3 | 0.2 | 3.1 | <0.1 | 4 | <0.01 |
| 1205760 | Rock | 1.48 | <2 | 0.2 | 11.6 | 8.5 | 37 | <0.1 | 12.9 | 4.8 | 82 | 0.87 | 3.0 | <0.5 | 4.8 | 3 | <0.1 | 2.9 | <0.1 | 8 | <0.01 |
| 1205761 | Rock | 0.92 | <2 | <0.1 | 1.6 | 0.8 | 4 | <0.1 | 1.9 | 0.7 | 34 | 0.32 | <0.5 | 1.2 | 1.0 | <1 | <0.1 | 0.3 | <0.1 | <2 | <0.01 |
| 1205762 | Rock | 0.78 | <2 | 0.1 | 26.8 | 7.8 | 46 | <0.1 | 11.8 | 4.7 | 352 | 2.09 | <0.5 | 2.1 | 6.4 | 28 | 0.2 | 0.2 | <0.1 | 9 | 0.38 |
| 1205763 | Rock | 0.80 | <2 | 0.1 | 11.0 | 10.6 | 100 | <0.1 | 12.6 | 5.4 | 128 | 1.57 | 15.9 | 1.5 | 4.4 | 3 | 0.2 | 7.6 | <0.1 | 5 | <0.01 |
| 1205764 | Rock | 1.03 | <2 | <0.1 | 11.3 | 5.9 | 8 | <0.1 | 7.0 | 3.2 | 134 | 1.00 | 0.5 | 0.9 | 5.6 | 3 | <0.1 | 1.7 | <0.1 | 4 | <0.01 |
| 1205765 | Rock | 0.76 | 2 | 0.2 | 11.5 | 30.7 | 45 | <0.1 | 22.1 | 7.9 | 265 | 2.42 | 0.9 | 0.6 | 8.4 | 7 | <0.1 | <0.1 | 0.7 | 12 | 0.05 |
| 1205766 | Rock | 0.63 | <2 | 0.1 | 2.6 | 6.0 | 8 | <0.1 | 2.8 | 1.6 | 83 | 0.89 | 7.3 | 1.5 | 2.5 | 12 | <0.1 | 6.6 | 0.2 | 5 | <0.01 |
| 1205767 | Rock | 1.08 | <2 | <0.1 | 0.5 | 1.1 | 3 | <0.1 | 1.7 | 0.9 | 56 | 0.40 | 0.5 | <0.5 | 0.8 | <1 | <0.1 | 0.6 | <0.1 | <2 | <0.01 |
| 1205768 | Rock | 1.01 | <2 | 0.1 | 2.0 | 21.2 | 4 | <0.1 | 2.4 | 1.4 | 107 | 0.39 | 0.6 | <0.5 | 0.7 | 2 | <0.1 | 0.3 | 0.5 | <2 | <0.01 |
| 1205769 | Rock | 0.94 | <2 | 0.1 | 6.6 | 3.6 | 23 | <0.1 | 6.4 | 3.0 | 300 | 0.98 | <0.5 | <0.5 | 4.9 | 6 | <0.1 | <0.1 | <0.1 | 5 | 0.03 |
| 1205770 | Rock | 0.86 | <2 | <0.1 | 2.7 | 0.4 | 3 | <0.1 | 2.6 | 0.9 | 51 | 0.33 | <0.5 | <0.5 | 0.2 | <1 | <0.1 | 0.3 | <0.1 | <2 | <0.01 |
| 1205771 | Rock | 1.10 | <2 | 0.3 | 9.0 | 13.6 | 21 | <0.1 | 10.9 | 6.0 | 227 | 1.67 | 1.9 | 1.3 | 6.4 | 5 | <0.1 | 1.1 | 0.1 | 4 | 0.02 |
| 1205772 | Rock | 0.62 | <2 | 0.2 | 7.2 | 6.3 | 23 | <0.1 | 9.9 | 4.4 | 306 | 1.34 | 22.2 | 0.9 | 5.3 | 28 | <0.1 | 0.6 | <0.1 | 4 | 0.47 |
| 1205773 | Rock | 1.02 | <2 | 0.4 | 15.3 | 4.4 | 17 | <0.1 | 8.5 | 3.7 | 327 | 1.30 | 9.1 | <0.5 | 2.7 | 17 | <0.1 | 5.4 | 0.1 | 3 | 0.45 |
| 1205774 | Rock | 0.92 | <2 | 0.3 | 10.4 | 2.2 | 26 | <0.1 | 16.9 | 5.9 | 331 | 1.44 | 1.2 | <0.5 | 3.6 | 27 | <0.1 | 0.2 | <0.1 | 4 | 1.24 |
| 1205775 | Rock | 1.38 | <2 | 0.2 | 4.5 | 6.1 | 7 | <0.1 | 3.9 | 1.6 | 171 | 0.59 | 1.5 | <0.5 | 2.9 | 4 | <0.1 | 0.3 | <0.1 | <2 | 0.06 |
| 1205776 | Rock | 0.67 | <2 | 0.8 | 7.0 | 5.6 | 8 | <0.1 | 11.9 | 4.9 | 440 | 0.89 | 34.9 | <0.5 | 3.5 | 6 | 0.1 | 2.8 | <0.1 | 84 | 0.10 |
| 1205777 | Rock | 0.73 | <2 | 0.4 | 10.2 | 8.7 | 19 | <0.1 | 12.0 | 5.2 | 434 | 1.29 | 9.0 | <0.5 | 8.1 | 6 | 0.1 | 6.1 | <0.1 | 5 | 0.07 |
| 1205778 | Rock | 0.84 | <2 | 0.1 | 1.3 | 1.7 | 2 | <0.1 | 2.2 | 0.7 | 49 | 0.31 | 0.7 | <0.5 | 1.2 | 7 | <0.1 | 1.3 | <0.1 | <2 | 0.12 |
| 1205779 | Rock | 0.62 | <2 | 0.2 | 5.5 | 5.9 | 14 | <0.1 | 7.5 | 3.4 | 281 | 1.13 | 2.6 | <0.5 | 5.4 | 12 | <0.1 | 0.5 | <0.1 | 5 | 0.12 |
| 1205780 | Rock | 1.29 | <2 | <0.1 | 2.0 | 9.9 | 5 | <0.1 | 1.9 | 0.7 | 1514 | 0.76 | 1.1 | <0.5 | 0.3 | 830 | 0.1 | <0.1 | <0.1 | <2 | 8.82 |
| 1205781 | Rock | 0.95 | 3 | 0.1 | 2.2 | 4.8 | 3 | <0.1 | 1.4 | 0.6 | 82 | 0.55 | 5.5 | 0.9 | 1.7 | <1 | <0.1 | 3.3 | <0.1 | <2 | 0.04 |

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205752 | Rock | | 0.010 | 9 | 3 | <0.01 | 20 | <0.001 | <20 | 0.15 | 0.002 | 0.04 | <0.1 | 0.02 | 0.3 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205753 | Rock | | 0.018 | 1 | 2 | <0.01 | 5 | <0.001 | <20 | 0.05 | 0.001 | 0.02 | <0.1 | 0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205754 | Rock | | 0.035 | 14 | 5 | <0.01 | 38 | <0.001 | <20 | 0.30 | 0.002 | 0.06 | <0.1 | 0.02 | 0.3 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205755 | Rock | | 0.041 | 13 | 21 | <0.01 | 18 | <0.001 | <20 | 0.29 | <0.001 | 0.05 | <0.1 | 0.02 | 0.1 | <0.05 | 2.0 | <0.5 | 2 | <1 | <0.2 |
| 1205756 | Rock | | 0.021 | 13 | 11 | <0.01 | 18 | <0.001 | <20 | 0.30 | <0.001 | 0.05 | 0.2 | 0.05 | 0.2 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |
| 1205757 | Rock | | 0.012 | 11 | 19 | <0.01 | 18 | <0.001 | <20 | 0.22 | <0.001 | 0.05 | <0.1 | 0.25 | 0.1 | <0.05 | 0.5 | 0.5 | <1 | <1 | <0.2 |
| 1205758 | Rock | | 0.013 | 8 | 13 | <0.01 | 11 | <0.001 | <20 | 0.18 | <0.001 | 0.03 | 0.2 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205759 | Rock | | 0.005 | 10 | 10 | 0.01 | 39 | 0.001 | <20 | 0.24 | <0.001 | 0.14 | 0.2 | 0.02 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205760 | Rock | | 0.015 | 10 | 10 | 0.02 | 56 | 0.002 | <20 | 0.32 | <0.001 | 0.15 | 0.5 | 0.01 | <0.1 | <0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1205761 | Rock | | 0.004 | 3 | 24 | <0.01 | 9 | <0.001 | <20 | 0.05 | <0.001 | 0.02 | 0.2 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205762 | Rock | | 0.013 | 13 | 17 | 0.42 | 46 | 0.005 | <20 | 0.79 | 0.014 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |
| 1205763 | Rock | | 0.014 | 11 | 11 | <0.01 | 28 | <0.001 | <20 | 0.21 | <0.001 | 0.11 | 0.2 | 0.01 | 0.2 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205764 | Rock | | 0.010 | 10 | 10 | <0.01 | 31 | 0.001 | <20 | 0.19 | <0.001 | 0.11 | <0.1 | 0.02 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205765 | Rock | | 0.031 | 3 | 20 | 0.55 | 67 | 0.019 | <20 | 1.10 | 0.016 | 0.30 | <0.1 | <0.01 | 0.1 | <0.05 | 1.5 | <0.5 | 3 | <1 | <0.2 |
| 1205766 | Rock | | 0.010 | 8 | 7 | <0.01 | 38 | <0.001 | <20 | 0.16 | <0.001 | 0.11 | <0.1 | 0.11 | 0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205767 | Rock | | 0.003 | 1 | 19 | <0.01 | 14 | <0.001 | <20 | 0.06 | <0.001 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205768 | Rock | | 0.006 | 2 | 24 | <0.01 | 9 | <0.001 | <20 | 0.05 | 0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205769 | Rock | | 0.016 | 11 | 19 | 0.09 | 51 | 0.001 | <20 | 0.29 | 0.011 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205770 | Rock | | <0.001 | <1 | 20 | <0.01 | 5 | <0.001 | <20 | 0.02 | 0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205771 | Rock | | 0.011 | 13 | 12 | 0.07 | 40 | 0.001 | <20 | 0.29 | 0.008 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205772 | Rock | | 0.011 | 9 | 14 | 0.14 | 36 | 0.001 | <20 | 0.39 | 0.005 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1205773 | Rock | | 0.006 | 4 | 16 | 0.11 | 29 | <0.001 | <20 | 0.12 | 0.010 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205774 | Rock | | 0.031 | 6 | 20 | 0.48 | 23 | 0.001 | <20 | 0.52 | 0.018 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | 2 | <1 | <0.2 |
| 1205775 | Rock | | 0.012 | 4 | 20 | 0.04 | 12 | <0.001 | <20 | 0.15 | 0.022 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205776 | Rock | | 0.046 | 9 | 16 | 0.07 | 65 | 0.007 | <20 | 0.27 | 0.010 | 0.11 | 0.2 | 0.01 | <0.1 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |
| 1205777 | Rock | | 0.014 | 12 | 10 | 0.03 | 68 | 0.002 | <20 | 0.25 | 0.003 | 0.13 | <0.1 | 0.01 | <0.1 | <0.05 | 1.0 | <0.5 | <1 | <1 | <0.2 |
| 1205778 | Rock | | 0.004 | 2 | 19 | <0.01 | 10 | <0.001 | <20 | 0.05 | <0.001 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205779 | Rock | | 0.012 | 8 | 13 | 0.13 | 88 | 0.007 | <20 | 0.34 | 0.020 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 1 | <1 | <0.2 |
| 1205780 | Rock | | 0.005 | 3 | 7 | 0.10 | 10 | <0.001 | <20 | 0.04 | 0.006 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 2.2 | <0.5 | <1 | <1 | <0.2 |
| 1205781 | Rock | | 0.005 | 7 | 10 | 0.01 | 35 | <0.001 | <20 | 0.15 | <0.001 | 0.12 | <0.1 | 0.06 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205782 | Rock | 1.28 | 17 | 0.1 | 1.8 | 7.1 | 10 | <0.1 | 10.3 | 3.1 | 693 | 1.38 | 34.3 | 10.1 | 2.0 | 324 | <0.1 | 14.4 | <0.1 | <2 | 8.24 |
| 1205783 | Rock | 0.98 | 6 | 0.3 | 7.6 | 6.2 | 22 | <0.1 | 10.6 | 4.3 | 303 | 1.11 | 29.9 | 4.1 | 5.0 | 2 | <0.1 | 4.5 | <0.1 | 8 | 0.08 |
| 1205784 | Rock | 0.95 | 18 | <0.1 | 4.9 | 4.5 | 7 | 0.1 | 4.6 | 1.8 | 261 | 0.62 | 54.1 | 17.9 | 2.7 | 25 | <0.1 | 22.2 | <0.1 | <2 | 0.54 |
| 1205785 | Rock | 1.30 | <2 | 0.3 | 5.0 | 7.6 | 20 | <0.1 | 9.4 | 5.0 | 237 | 1.27 | 1.9 | 1.8 | 6.2 | 7 | <0.1 | 0.7 | <0.1 | 4 | 0.08 |
| 1205786 | Rock | 0.78 | <2 | 0.3 | 4.3 | 9.1 | 13 | <0.1 | 9.1 | 5.1 | 273 | 1.00 | 3.1 | <0.5 | 5.8 | 7 | <0.1 | 0.8 | <0.1 | 2 | 0.15 |
| 1205787 | Rock | 1.04 | <2 | 0.3 | 6.6 | 6.9 | 16 | <0.1 | 8.5 | 4.1 | 387 | 1.20 | 3.2 | 1.3 | 3.4 | 609 | <0.1 | 0.9 | <0.1 | 3 | 8.68 |
| 1205788 | Rock | 1.09 | <2 | 0.2 | 6.7 | 8.0 | 3 | <0.1 | 8.3 | 2.5 | 66 | 0.62 | 1.3 | 0.5 | 2.0 | 6 | <0.1 | 0.5 | <0.1 | <2 | 0.19 |
| 1205789 | Rock | 1.24 | <2 | 0.2 | 10.4 | 28.8 | 9 | <0.1 | 9.1 | 3.1 | 124 | 0.81 | 0.5 | 0.5 | 3.5 | 7 | <0.1 | 0.4 | 0.2 | 2 | 0.24 |
| 1205790 | Rock | 1.00 | 3 | 0.2 | 30.6 | 9.0 | 5 | <0.1 | 11.4 | 4.8 | 170 | 1.02 | 3.2 | 2.0 | 2.0 | 87 | <0.1 | 0.8 | 0.2 | <2 | 1.30 |
| 1205791 | Rock | 1.51 | <2 | 0.2 | 5.0 | 8.0 | 12 | <0.1 | 5.0 | 3.9 | 285 | 0.89 | 0.5 | 1.7 | 4.5 | 2 | <0.1 | 0.8 | <0.1 | 2 | 0.02 |
| 1205792 | Rock | 0.90 | <2 | 0.1 | 6.9 | 8.6 | 18 | <0.1 | 6.5 | 3.5 | 144 | 1.09 | 0.9 | <0.5 | 6.5 | 6 | <0.1 | 0.5 | <0.1 | 3 | 0.05 |
| 1205601 | Rock | 0.58 | 3 | 0.9 | 97.2 | 34.6 | 150 | 0.4 | 25.9 | 15.0 | 219 | 3.09 | 23.9 | <0.5 | 16.6 | 7 | 1.9 | 14.5 | <0.1 | 54 | <0.01 |
| 1205602 | Rock | 0.94 | 5 | 1.2 | 35.6 | 132.6 | 128 | 5.3 | 15.7 | 5.5 | 214 | 5.14 | 147.9 | 2.2 | 8.4 | 2 | 1.2 | 25.6 | 0.3 | 38 | <0.01 |
| 1205603 | Rock | 0.97 | <2 | 0.2 | 17.3 | 103.6 | 52 | 1.9 | 3.9 | 2.4 | 126 | 4.17 | 13.4 | 1.0 | 4.4 | 3 | 0.1 | 27.0 | 0.2 | 7 | <0.01 |
| 1205604 | Rock | 0.92 | 2 | 0.4 | 2.3 | 53.3 | 27 | 0.1 | 1.7 | 0.9 | 78 | 0.43 | 3.4 | <0.5 | 0.7 | <1 | 0.6 | 53.1 | 0.5 | <2 | <0.01 |
| 1205605 | Rock | 1.10 | 3 | 0.2 | 2.8 | 13.6 | 4 | 0.1 | 1.7 | 0.4 | 19 | 0.32 | 1.0 | 0.8 | 2.8 | 2 | <0.1 | 3.8 | 0.3 | <2 | <0.01 |
| 1205606 | Rock | 1.42 | <2 | 0.1 | 4.0 | 4.4 | 4 | <0.1 | 21.5 | 5.2 | 282 | 0.39 | 3.8 | <0.5 | 0.5 | <1 | <0.1 | 0.7 | <0.1 | <2 | <0.01 |
| 1205607 | Rock | 1.92 | <2 | 0.2 | 17.6 | 9.9 | 27 | <0.1 | 11.5 | 3.8 | 58 | 1.12 | 10.0 | <0.5 | 9.1 | 4 | <0.1 | 6.0 | <0.1 | 7 | <0.01 |
| 1205608 | Rock | 0.72 | <2 | 0.2 | 10.0 | 11.8 | 18 | <0.1 | 6.7 | 2.3 | 123 | 0.81 | 2.2 | <0.5 | 2.5 | 3 | 0.2 | 4.3 | <0.1 | <2 | 0.01 |
| 1205609 | Rock | 1.09 | 2 | 0.2 | 9.8 | 209.5 | 16 | 1.0 | 2.2 | 0.7 | 26 | 1.19 | 74.9 | 2.1 | 3.5 | 2 | <0.1 | 46.1 | 0.2 | 2 | <0.01 |
| 1205610 | Rock | 0.75 | <2 | 0.3 | 35.9 | 26.3 | 69 | 0.2 | 13.0 | 6.2 | 124 | 3.20 | 0.9 | <0.5 | 8.5 | 2 | <0.1 | 3.4 | 0.4 | 9 | <0.01 |
| 1205611 | Rock | 0.79 | <2 | 0.3 | 11.2 | 10.1 | 72 | <0.1 | 18.3 | 8.6 | 184 | 2.38 | 4.8 | <0.5 | 2.0 | 3 | <0.1 | 7.5 | <0.1 | 26 | 0.01 |
| 1205612 | Rock | 0.92 | 6 | 0.8 | 19.5 | 17.1 | 61 | <0.1 | 20.9 | 8.7 | 146 | 3.37 | 7.9 | 0.7 | 3.8 | 15 | <0.1 | 15.3 | <0.1 | 14 | <0.01 |
| 1205613 | Rock | 0.75 | 11 | 0.2 | 2.2 | 141.4 | 2 | 0.9 | 1.2 | 0.3 | 25 | 0.31 | 9.4 | <0.5 | 1.5 | 3 | <0.1 | 34.3 | <0.1 | <2 | <0.01 |
| 1205614 | Rock | 1.07 | <2 | 0.1 | 7.9 | 12.2 | 15 | <0.1 | 5.2 | 3.1 | 119 | 0.65 | <0.5 | 0.7 | 8.2 | 3 | <0.1 | 0.6 | 0.1 | 2 | <0.01 |
| 1205615 | Rock | 0.94 | <2 | 0.2 | 16.2 | 5.1 | 16 | <0.1 | 14.2 | 5.1 | 203 | 1.90 | 1.0 | <0.5 | 6.5 | 3 | <0.1 | 1.2 | 0.1 | 3 | <0.01 |
| 1205616 | Rock | 0.96 | <2 | 0.1 | 11.8 | 7.1 | 9 | <0.1 | 8.5 | 3.7 | 106 | 1.18 | 0.5 | <0.5 | 5.3 | 9 | <0.1 | 0.6 | <0.1 | 6 | <0.01 |
| 1205617 | Rock | 0.76 | <2 | 0.3 | 54.5 | 10.0 | 41 | <0.1 | 31.7 | 17.6 | 183 | 2.88 | <0.5 | <0.5 | 22.9 | 5 | <0.1 | 1.5 | 0.3 | 5 | <0.01 |
| 1205618 | Rock | 1.69 | <2 | 0.1 | 3.1 | 1.7 | 6 | <0.1 | 2.5 | 1.4 | 88 | 0.55 | 1.0 | <0.5 | 1.2 | 1 | <0.1 | 1.3 | <0.1 | <2 | <0.01 |
| 1205619 | Rock | 0.62 | <2 | 0.2 | 8.6 | 9.1 | 19 | <0.1 | 8.7 | 5.8 | 342 | 1.36 | 1.7 | <0.5 | 7.5 | 4 | <0.1 | 3.5 | <0.1 | 5 | 0.01 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205782 | Rock | 0.035 | 4 | 4 | 2.16 | 29 | <0.001 | <20 | 0.09 | 0.003 | 0.08 | <0.1 | <0.01 | <0.1 | 0.06 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| 1205783 | Rock | 0.011 | 9 | 16 | 0.14 | 43 | 0.013 | <20 | 0.35 | 0.010 | 0.16 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| 1205784 | Rock | 0.018 | 7 | 9 | 0.17 | 29 | <0.001 | <20 | 0.14 | 0.002 | 0.13 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205785 | Rock | 0.016 | 12 | 10 | 0.12 | 36 | <0.001 | <20 | 0.40 | 0.019 | 0.09 | <0.1 | 0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1205786 | Rock | 0.012 | 9 | 9 | 0.08 | 22 | <0.001 | <20 | 0.27 | 0.011 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205787 | Rock | 0.020 | 6 | 7 | 0.14 | 28 | <0.001 | <20 | 0.24 | 0.003 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | <1 | <1 | <0.2 |
| 1205788 | Rock | 0.008 | 5 | 12 | 0.02 | 34 | <0.001 | <20 | 0.17 | 0.001 | 0.11 | <0.1 | 0.02 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205789 | Rock | 0.015 | 8 | 11 | 0.03 | 32 | <0.001 | <20 | 0.17 | 0.002 | 0.11 | <0.1 | 0.02 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205790 | Rock | 0.009 | 3 | 12 | 0.03 | 47 | <0.001 | <20 | 0.13 | <0.001 | 0.09 | <0.1 | 0.03 | <0.1 | 0.10 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205791 | Rock | 0.008 | 9 | 9 | 0.03 | 39 | <0.001 | <20 | 0.18 | 0.011 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205792 | Rock | 0.011 | 11 | 8 | 0.06 | 51 | <0.001 | <20 | 0.30 | 0.002 | 0.14 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205601 | Rock | 0.018 | 12 | 35 | <0.01 | 14 | <0.001 | <20 | 0.68 | <0.001 | 0.04 | <0.1 | 0.08 | 0.5 | <0.05 | 5.7 | <0.5 | 2 | 1 | <0.2 |
| 1205602 | Rock | 0.032 | 11 | 30 | 0.02 | 39 | <0.001 | <20 | 0.41 | 0.002 | 0.17 | 0.2 | 0.05 | 1.8 | <0.05 | 2.5 | 0.6 | 2 | 7 | <0.2 |
| 1205603 | Rock | 0.014 | 11 | 10 | <0.01 | 18 | <0.001 | <20 | 0.27 | 0.002 | 0.10 | <0.1 | 0.06 | 0.2 | <0.05 | 0.6 | <0.5 | 1 | 4 | <0.2 |
| 1205604 | Rock | <0.001 | 2 | 12 | <0.01 | 5 | <0.001 | <20 | 0.04 | <0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205605 | Rock | 0.004 | 3 | 19 | <0.01 | 3 | <0.001 | <20 | 0.12 | <0.001 | <0.01 | <0.1 | 0.02 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205606 | Rock | 0.002 | 1 | 17 | <0.01 | 8 | <0.001 | <20 | 0.04 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205607 | Rock | 0.010 | 16 | 13 | <0.01 | 25 | <0.001 | <20 | 0.21 | 0.003 | 0.07 | <0.1 | 0.06 | <0.1 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |
| 1205608 | Rock | 0.007 | 4 | 13 | <0.01 | 7 | <0.001 | <20 | 0.12 | <0.001 | <0.01 | <0.1 | 0.02 | 0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205609 | Rock | 0.006 | 8 | 11 | <0.01 | 15 | <0.001 | <20 | 0.13 | 0.001 | 0.06 | <0.1 | 0.07 | 0.3 | <0.05 | 0.3 | <0.5 | <1 | 4 | <0.2 |
| 1205610 | Rock | 0.016 | 12 | 11 | 0.23 | 12 | 0.001 | <20 | 0.63 | 0.001 | 0.05 | 0.2 | 0.02 | 0.2 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1205611 | Rock | 0.016 | 6 | 17 | <0.01 | 4 | <0.001 | <20 | 0.09 | <0.001 | <0.01 | 0.3 | 0.07 | <0.1 | <0.05 | 3.4 | <0.5 | <1 | <1 | <0.2 |
| 1205612 | Rock | 0.016 | 10 | 13 | <0.01 | 23 | <0.001 | <20 | 0.28 | 0.001 | 0.07 | 0.4 | 0.06 | 0.2 | <0.05 | 1.7 | <0.5 | 2 | <1 | <0.2 |
| 1205613 | Rock | 0.003 | 5 | 16 | <0.01 | 31 | <0.001 | <20 | 0.10 | <0.001 | 0.10 | <0.1 | 0.02 | 0.2 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205614 | Rock | 0.006 | 14 | 7 | 0.01 | 50 | 0.002 | <20 | 0.22 | <0.001 | 0.17 | 0.4 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205615 | Rock | 0.005 | 9 | 7 | <0.01 | 29 | <0.001 | <20 | 0.22 | 0.001 | 0.11 | <0.1 | 0.02 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205616 | Rock | 0.003 | 10 | 10 | 0.01 | 33 | 0.002 | <20 | 0.22 | 0.002 | 0.10 | <0.1 | 0.03 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205617 | Rock | 0.016 | 26 | 7 | 0.01 | 59 | <0.001 | <20 | 0.33 | 0.004 | 0.25 | <0.1 | 0.04 | <0.1 | <0.05 | 1.4 | <0.5 | <1 | <1 | <0.2 |
| 1205618 | Rock | 0.003 | 2 | 16 | <0.01 | 14 | <0.001 | <20 | 0.07 | <0.001 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205619 | Rock | 0.011 | 13 | 9 | 0.02 | 53 | 0.001 | <20 | 0.26 | 0.003 | 0.13 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205620 | Rock | 0.89 | 3 | <0.1 | 7.6 | 11.6 | 17 | <0.1 | 4.7 | 2.3 | 226 | 0.65 | 27.5 | 1.2 | 6.9 | 5 | <0.1 | 5.3 | <0.1 | <2 | 0.22 |
| 1205621 | Rock | 1.18 | 4 | 0.1 | 1.2 | 2.3 | 2 | <0.1 | 1.6 | 0.9 | 159 | 0.29 | 1.7 | <0.5 | 0.5 | 2 | <0.1 | 0.2 | <0.1 | <2 | 0.02 |
| 1205622 | Rock | 0.82 | 2 | 0.4 | 70.8 | 19.5 | 33 | 0.4 | 2.5 | 0.9 | 69 | 4.10 | 15.8 | <0.5 | 9.1 | 1 | 0.2 | 21.7 | 0.1 | 6 | <0.01 |
| 1205623 | Rock | 0.54 | <2 | 0.1 | 9.0 | 209.0 | 50 | 0.7 | 2.8 | 1.4 | 161 | 1.60 | 66.3 | <0.5 | 2.2 | 7 | 0.1 | 75.0 | 0.3 | <2 | 0.07 |
| 1205624 | Rock | 1.31 | 2 | 0.2 | 26.0 | 21.2 | 160 | <0.1 | 19.1 | 6.2 | 239 | 2.93 | 6.3 | <0.5 | 3.3 | 3 | <0.1 | 2.9 | 0.2 | 10 | <0.01 |
| 1205625 | Rock | 0.67 | <2 | 1.0 | 14.2 | 67.4 | 92 | 0.4 | 9.2 | 5.4 | 284 | 1.84 | 13.4 | <0.5 | 15.2 | 4 | 0.2 | 4.3 | 0.3 | 7 | 0.02 |
| 1205626 | Rock | 0.94 | <2 | 0.1 | 17.8 | 55.8 | 73 | 0.4 | 5.5 | 3.0 | 437 | 1.66 | 8.8 | <0.5 | 0.1 | 2 | 0.4 | 55.0 | 1.6 | <2 | <0.01 |
| 1205627 | Rock | 0.69 | 2 | 0.2 | 5.3 | 18.2 | 42 | <0.1 | 12.5 | 4.6 | 1390 | 0.95 | 3.0 | 0.6 | 5.7 | 3 | 1.6 | 4.6 | <0.1 | 3 | 0.01 |
| 1205628 | Rock | 0.85 | <2 | 0.3 | 2.2 | 104.3 | 78 | 0.3 | 2.4 | 2.2 | 455 | 1.18 | 3.1 | <0.5 | 0.2 | 4 | 0.5 | 24.1 | <0.1 | <2 | 0.03 |
| 1205629 | Rock | 0.65 | 2 | 0.2 | 1.6 | 24.5 | 3 | <0.1 | 1.6 | 0.5 | 44 | 0.48 | 13.6 | 0.6 | 7.4 | 7 | <0.1 | 3.0 | 0.1 | <2 | <0.01 |
| 1205630 | Rock | 0.85 | <2 | 0.2 | 1.7 | 3.0 | 5 | <0.1 | 1.9 | 0.7 | 51 | 0.35 | 3.2 | <0.5 | 0.2 | 7 | <0.1 | 0.7 | <0.1 | <2 | 0.04 |
| 1205631 | Rock | 0.98 | <2 | 0.2 | 46.1 | 58.6 | 90 | 0.7 | 6.3 | 2.0 | 159 | 6.30 | 188.7 | <0.5 | 3.8 | 15 | 0.1 | 6.8 | 0.3 | 9 | <0.01 |
| 1205632 | Rock | 0.58 | <2 | <0.1 | 8.7 | 10.7 | 42 | <0.1 | 13.1 | 5.2 | 141 | 1.76 | 0.7 | 0.7 | 8.1 | 5 | <0.1 | 0.2 | 0.1 | 8 | 0.04 |
| 1205633 | Rock | 0.73 | <2 | 0.2 | 3.9 | 8.8 | 22 | <0.1 | 8.4 | 3.0 | 77 | 1.00 | 3.9 | 3.2 | 6.1 | 3 | <0.1 | 1.1 | <0.1 | 3 | 0.01 |
| 1205634 | Rock | 0.95 | <2 | 0.2 | 26.3 | 6.5 | 33 | <0.1 | 39.7 | 13.0 | 438 | 1.26 | 2.9 | <0.5 | 0.8 | 4 | 0.4 | 0.4 | <0.1 | <2 | 0.05 |
| 1205635 | Rock | 1.54 | 973 | 0.2 | 5902 | >10000 | 303 | >100 | 31.4 | 93.9 | 9298 | 38.37 | >10000 | 970.0 | 0.9 | 35 | 11.8 | >2000 | 1241 | 43 | 0.14 |
| 1205636 | Rock | 1.16 | 32 | 0.4 | 3419 | 6682 | 1330 | 63.1 | 39.3 | 6.6 | 316 | 28.92 | 498.5 | 31.8 | 2.3 | 3 | 9.0 | 1316 | 27.0 | 17 | 0.03 |
| 1205637 | Rock | 1.00 | 981 | 0.2 | 280.2 | 2686 | 77 | 84.9 | 10.7 | 65.4 | 27 | 14.54 | >10000 | 1173 | 14.5 | 26 | 1.5 | >2000 | 123.3 | 12 | <0.01 |
| 1205638 | Rock | 1.67 | 1507 | 0.1 | 199.7 | >10000 | 23 | >100 | 5.3 | 51.5 | 30 | 14.65 | >10000 | 1887 | 21.1 | 68 | 3.9 | >2000 | 512.0 | 13 | <0.01 |
| 1205639 | Rock | 0.91 | 8 | 0.6 | 10.6 | 39.4 | 13 | 0.6 | 7.5 | 2.8 | 89 | 1.12 | 350.2 | 1.9 | 18.4 | 52 | <0.1 | 17.6 | 1.0 | 13 | 0.64 |
| 1205640 | Rock | 1.35 | 6 | 0.2 | 3.8 | 11.1 | 22 | 0.3 | 2.7 | 0.5 | 50 | 0.85 | 156.6 | <0.5 | 1.0 | 3 | <0.1 | 8.6 | 0.4 | 6 | 0.02 |
| 1205641 | Rock | 0.84 | 8 | 1.2 | 9.8 | 104.1 | 20 | 1.2 | 7.4 | 2.7 | 905 | 1.27 | 422.3 | 2.8 | 2.0 | 15 | <0.1 | 26.2 | 3.3 | 2 | 0.66 |
| 1205642 | Rock | 1.11 | 10 | 3.7 | 78.2 | 17.7 | 12 | 1.4 | 5.2 | 2.3 | 310 | 4.10 | 228.0 | 5.2 | 1.9 | 5 | 0.2 | 32.0 | 7.6 | 4 | 0.04 |
| 1205643 | Rock | 1.11 | 3 | 0.1 | 48.4 | 10.7 | 26 | 0.1 | 11.5 | 7.5 | 444 | 1.42 | 31.6 | <0.5 | 5.2 | 103 | <0.1 | 2.1 | 0.4 | 5 | 2.41 |
| 1205644 | Rock | 0.42 | <2 | 0.7 | 3.8 | 6.5 | 22 | <0.1 | 4.5 | 2.1 | 112 | 0.95 | 7.9 | <0.5 | 8.9 | 36 | <0.1 | 0.8 | <0.1 | 11 | 0.29 |
| 1206601 | Rock | 1.47 | <2 | 0.1 | 2.7 | 3.8 | 6 | <0.1 | 2.5 | 1.3 | 123 | 0.54 | 14.2 | <0.5 | 2.6 | 9 | <0.1 | 2.1 | <0.1 | <2 | 0.15 |
| 1206602 | Rock | 0.78 | 5 | 0.1 | 14.3 | 13.9 | 23 | <0.1 | 7.2 | 3.3 | 298 | 1.08 | 15.5 | <0.5 | 6.3 | 4 | <0.1 | 14.1 | 0.1 | 4 | 0.08 |
| 1206603 | Rock | 0.59 | 14 | 0.1 | 9.4 | 6.8 | 151 | <0.1 | 49.4 | 18.5 | 793 | 1.02 | 25.9 | 11.1 | 3.3 | 26 | 1.0 | 1.0 | 0.8 | 5 | 0.22 |
| 1206604 | Rock | 1.03 | 5 | 0.8 | 89.2 | 2826 | 82 | 21.0 | 2.6 | 1.0 | 117 | 5.32 | >10000 | <0.5 | 7.9 | 18 | 3.4 | 1795 | 580.8 | 7 | <0.01 |
| 1206605 | Rock | 1.13 | 614 | 0.1 | 7808 | >10000 | 84 | 68.7 | 8.0 | 38.2 | 28 | 24.08 | >10000 | 696.0 | 63.3 | 116 | 17.8 | >2000 | 1578 | 30 | 0.02 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| Method | | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205620 | Rock | 0.011 | 10 | 9 | 0.01 | 53 | 0.001 | <20 | 0.17 | <0.001 | 0.13 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205621 | Rock | 0.005 | <1 | 12 | <0.01 | 20 | <0.001 | <20 | 0.02 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205622 | Rock | 0.020 | 8 | 10 | <0.01 | 14 | <0.001 | <20 | 0.28 | 0.002 | 0.10 | <0.1 | 0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | 3 | <0.2 |
| 1205623 | Rock | 0.043 | <1 | 11 | <0.01 | 7 | <0.001 | <20 | 0.06 | 0.002 | 0.01 | <0.1 | 0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205624 | Rock | 0.015 | 7 | 11 | 0.50 | 18 | 0.002 | <20 | 1.13 | 0.003 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 1.4 | <0.5 | 4 | <1 | <0.2 |
| 1205625 | Rock | 0.047 | 13 | 11 | 0.03 | 77 | <0.001 | <20 | 0.37 | 0.014 | 0.19 | <0.1 | 0.01 | <0.1 | <0.05 | 1.7 | <0.5 | 1 | <1 | <0.2 |
| 1205626 | Rock | 0.004 | 2 | 12 | <0.01 | 32 | <0.001 | <20 | 0.02 | 0.002 | <0.01 | <0.1 | 0.02 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205627 | Rock | 0.009 | 8 | 14 | 0.01 | 56 | <0.001 | <20 | 0.14 | <0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | 2 | <0.2 |
| 1205628 | Rock | 0.014 | <1 | 11 | <0.01 | 24 | <0.001 | <20 | 0.03 | 0.001 | 0.01 | <0.1 | 0.01 | <0.1 | 0.14 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205629 | Rock | 0.006 | 10 | 11 | <0.01 | 15 | <0.001 | <20 | 0.13 | 0.003 | 0.04 | 0.1 | 0.09 | 0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205630 | Rock | 0.023 | <1 | 15 | <0.01 | 3 | <0.001 | <20 | 0.03 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205631 | Rock | 0.008 | 8 | 9 | <0.01 | 31 | <0.001 | <20 | 0.19 | <0.001 | 0.09 | <0.1 | 0.51 | 0.2 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |
| 1205632 | Rock | 0.021 | 13 | 14 | 0.37 | 13 | 0.002 | <20 | 0.78 | 0.041 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 3 | <1 | <0.2 |
| 1205633 | Rock | 0.009 | 10 | 9 | 0.04 | 15 | <0.001 | <20 | 0.17 | 0.013 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | 1 | <0.2 |
| 1205634 | Rock | 0.020 | 6 | 11 | <0.01 | 16 | <0.001 | <20 | 0.13 | 0.002 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205635 | Rock | 0.012 | <1 | 9 | 0.65 | 13 | <0.001 | <20 | 0.17 | 0.003 | 0.02 | <0.1 | 1.93 | 0.5 | >10 | 3.9 | 28.9 | 1 | 119 | <0.2 |
| 1205636 | Rock | 0.005 | <1 | 2 | 0.10 | 2 | <0.001 | <20 | 0.09 | 0.002 | <0.01 | 0.9 | 1.05 | 0.5 | >10 | 0.3 | 19.2 | <1 | 48 | <0.2 |
| 1205637 | Rock | 0.004 | 1 | 5 | <0.01 | 8 | <0.001 | <20 | 0.05 | <0.001 | 0.02 | <0.1 | 0.58 | 0.3 | 6.44 | 0.1 | 14.8 | <1 | 37 | <0.2 |
| 1205638 | Rock | 0.009 | <1 | 6 | <0.01 | 11 | <0.001 | <20 | 0.05 | <0.001 | 0.01 | <0.1 | 0.30 | 0.6 | 4.57 | 0.4 | 29.4 | 2 | 26 | 0.6 |
| 1205639 | Rock | 0.043 | 15 | 11 | 0.44 | 140 | 0.057 | <20 | 0.95 | 0.084 | 0.12 | 0.1 | <0.01 | <0.1 | <0.05 | 1.4 | <0.5 | 5 | <1 | <0.2 |
| 1205640 | Rock | 0.008 | 2 | 14 | 0.26 | 16 | <0.001 | <20 | 0.32 | <0.001 | <0.01 | <0.1 | 0.02 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205641 | Rock | 0.020 | 4 | 9 | 0.06 | 33 | 0.001 | <20 | 0.17 | 0.020 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1205642 | Rock | 0.007 | 15 | 7 | 0.02 | 43 | 0.002 | <20 | 0.09 | 0.003 | 0.02 | <0.1 | 1.20 | <0.1 | <0.05 | 1.0 | 4.3 | <1 | 10 | <0.2 |
| 1205643 | Rock | 0.014 | 16 | 11 | 0.35 | 29 | 0.002 | <20 | 0.65 | 0.010 | 0.12 | <0.1 | 0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 2 | <1 | <0.2 |
| 1205644 | Rock | 0.032 | 14 | 7 | 0.28 | 222 | 0.058 | <20 | 0.72 | 0.073 | 0.18 | >100 | <0.01 | 0.1 | <0.05 | 1.2 | <0.5 | 3 | <1 | <0.2 |
| 1206601 | Rock | 0.013 | 5 | 13 | 0.05 | 12 | <0.001 | <20 | 0.08 | 0.008 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1206602 | Rock | 0.011 | 12 | 7 | 0.02 | 53 | <0.001 | <20 | 0.17 | <0.001 | 0.16 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206603 | Rock | 0.012 | 9 | 12 | 0.27 | 82 | 0.013 | <20 | 0.63 | 0.023 | 0.05 | 0.1 | <0.01 | <0.1 | 0.11 | 1.1 | <0.5 | 1 | <1 | <0.2 |
| 1206604 | Rock | 0.014 | 3 | 8 | <0.01 | 12 | <0.001 | 25 | 0.15 | 0.003 | 0.02 | <0.1 | 0.22 | 0.1 | 0.07 | 0.7 | 10.5 | <1 | 27 | <0.2 |
| 1206605 | Rock | 0.057 | 2 | 19 | <0.01 | 30 | <0.001 | <20 | 0.31 | <0.001 | <0.01 | <0.1 | 0.72 | 0.6 | 4.15 | 39.4 | 86.1 | 6 | 63 | 0.6 |

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1206606 | Rock | 0.50 | 44 | <0.1 | 83.3 | <0.1 | 26 | 0.8 | 5.1 | 1.8 | 170 | 0.71 | 367.6 | 17.8 | <0.1 | 15 | 0.3 | >2000 | 2.6 | <2 | 0.26 |
| 1206607 | Rock | 0.61 | 5 | 0.2 | 37.7 | 22.2 | 7 | 0.4 | 4.0 | 2.6 | 202 | 0.79 | 129.0 | 1.8 | 0.5 | 30 | <0.1 | 64.4 | 3.8 | 20 | 0.64 |
| 1206608 | Rock | 0.53 | 2 | 0.2 | 19.6 | 18.1 | 37 | <0.1 | 16.3 | 6.9 | 288 | 1.97 | 31.6 | <0.5 | 5.0 | 17 | <0.1 | 74.9 | 0.5 | 10 | 0.39 |
| 1206609 | Rock | 0.87 | 3 | 0.1 | 18.8 | 49.7 | 15 | 0.1 | 5.0 | 2.4 | 177 | 0.78 | 348.6 | <0.5 | 5.4 | 19 | <0.1 | 12.4 | 3.3 | 2 | 0.67 |
| 1206610 | Rock | 0.86 | 2 | 0.2 | 3.2 | 8.1 | 15 | <0.1 | 8.9 | 2.9 | 321 | 1.23 | 21.3 | 2.3 | 2.8 | 26 | <0.1 | 3.0 | 0.6 | 3 | 1.17 |
| 1206611 | Rock | 0.84 | 134 | 0.5 | 3.3 | 6.6 | 11 | <0.1 | 3.7 | 2.0 | 244 | 0.71 | 21.5 | 98.4 | 5.7 | 130 | <0.1 | 9.6 | 3.0 | 5 | 2.46 |
| 1206612 | Rock | 1.28 | 9 | 0.2 | 87.1 | 7.5 | 19 | 0.2 | 67.8 | 20.9 | 250 | 2.76 | 58.4 | <0.5 | 0.1 | 198 | 0.1 | 2.7 | 0.6 | 28 | 4.24 |
| 1205851 | Rock | 0.66 | 3 | 0.1 | 4.3 | 3.7 | 11 | <0.1 | 8.9 | 3.7 | 338 | 1.23 | 10.3 | <0.5 | 5.7 | 22 | <0.1 | 0.7 | 0.2 | 5 | 0.42 |
| 1205852 | Rock | 0.73 | 2 | 0.1 | 4.2 | 15.6 | 28 | <0.1 | 8.2 | 3.8 | 222 | 1.33 | 5.0 | <0.5 | 8.8 | 4 | <0.1 | 4.4 | <0.1 | 6 | 0.03 |

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Project: MQ
Report Date: July 13, 2012



# CERTIFICATE OF ANALYSIS WHI12000144.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1206606 | Rock | 0.006 | <1 | 4 | 0.03 | 28 | <0.001 | <20 | 0.09 | <0.001 | 0.11 | <0.1 | <0.01 | 0.2 | 1.68 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1206607 | Rock | 0.023 | 1 | 13 | 0.12 | 29 | 0.032 | <20 | 0.71 | 0.135 | 0.01 | <0.1 | <0.01 | 0.1 | <0.05 | 1.9 | <0.5 | 2 | <1 | 0.2 |
| 1206608 | Rock | 0.021 | 12 | 8 | 0.17 | 51 | <0.001 | <20 | 0.63 | <0.001 | 0.15 | <0.1 | 0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 1 | <1 | <0.2 |
| 1206609 | Rock | 0.014 | 9 | 4 | 0.06 | 63 | <0.001 | <20 | 0.20 | 0.006 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206610 | Rock | 0.015 | 7 | 5 | 0.03 | 37 | <0.001 | <20 | 0.15 | <0.001 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1206611 | Rock | 0.035 | 11 | 8 | 0.13 | 34 | 0.027 | <20 | 1.79 | 0.238 | 0.04 | 2.3 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 5 | <1 | <0.2 |
| 1206612 | Rock | 0.043 | 1 | 32 | 0.34 | 98 | 0.099 | <20 | 3.86 | 0.473 | 0.06 | 0.1 | <0.01 | <0.1 | 1.32 | 1.5 | 1.7 | 9 | 1 | <0.2 |
| 1205851 | Rock | 0.009 | 12 | 11 | 0.24 | 48 | 0.001 | <20 | 0.61 | 0.018 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | 0.6 | 2 | <1 | <0.2 |
| 1205852 | Rock | 0.008 | 16 | 12 | 0.25 | 30 | 0.002 | <20 | 0.63 | 0.032 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | 2 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| REP G1-WHI | QC | | <2 | | | | | | | | | | | | | | | | | | |
| 1206026 | Rock | 0.34 | 2 | 0.1 | 6.1 | 5.6 | 28 | <0.1 | 7.3 | 3.4 | 169 | 1.37 | 0.5 | 2.0 | 4.6 | 2 | <0.1 | <0.1 | <0.1 | 5 | <0.01 |
| REP 1206026 | QC | | | 0.1 | 6.1 | 5.6 | 29 | <0.1 | 7.5 | 3.6 | 177 | 1.40 | 0.7 | 1.4 | 4.8 | 2 | <0.1 | <0.1 | <0.1 | 5 | <0.01 |
| 1205755 | Rock | 1.11 | <2 | 0.3 | 37.0 | 18.7 | 41 | <0.1 | 9.8 | 1.1 | 32 | 2.34 | 35.2 | 2.6 | 27.4 | 6 | 0.2 | 11.6 | <0.1 | 8 | <0.01 |
| REP 1205755 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| 1205782 | Rock | 1.28 | 17 | 0.1 | 1.8 | 7.1 | 10 | <0.1 | 10.3 | 3.1 | 693 | 1.38 | 34.3 | 10.1 | 2.0 | 324 | <0.1 | 14.4 | <0.1 | <2 | 8.24 |
| REP 1205782 | QC | | | 0.2 | 1.5 | 7.0 | 11 | <0.1 | 10.2 | 3.0 | 685 | 1.37 | 34.9 | 11.8 | 2.1 | 330 | <0.1 | 15.3 | <0.1 | <2 | 8.25 |
| 1205789 | Rock | 1.24 | <2 | 0.2 | 10.4 | 28.8 | 9 | <0.1 | 9.1 | 3.1 | 124 | 0.81 | 0.5 | 0.5 | 3.5 | 7 | <0.1 | 0.4 | 0.2 | 2 | 0.24 |
| REP 1205789 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| 1205625 | Rock | 0.67 | <2 | 1.0 | 14.2 | 67.4 | 92 | 0.4 | 9.2 | 5.4 | 284 | 1.84 | 13.4 | <0.5 | 15.2 | 4 | 0.2 | 4.3 | 0.3 | 7 | 0.02 |
| REP 1205625 | QC | | | 1.3 | 14.3 | 70.9 | 93 | 0.4 | 10.3 | 5.8 | 297 | 1.91 | 14.2 | <0.5 | 16.3 | 4 | 0.2 | 4.1 | 0.3 | 7 | 0.02 |
| 1205631 | Rock | 0.98 | <2 | 0.2 | 46.1 | 58.6 | 90 | 0.7 | 6.3 | 2.0 | 159 | 6.30 | 188.7 | <0.5 | 3.8 | 15 | 0.1 | 6.8 | 0.3 | 9 | <0.01 |
| REP 1205631 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1206009 | Rock | 0.46 | 2 | <0.1 | 5.0 | 9.6 | 41 | <0.1 | 6.1 | 3.2 | 510 | 1.04 | <0.5 | 2.8 | 8.1 | 37 | <0.1 | 0.6 | <0.1 | 4 | 0.42 |
| DUP 1206009 | QC | | 4 | <0.1 | 4.9 | 9.9 | 39 | <0.1 | 6.5 | 3.3 | 511 | 1.07 | <0.5 | 3.5 | 8.2 | 37 | 0.1 | 0.4 | <0.1 | 4 | 0.43 |
| 1205765 | Rock | 0.76 | 2 | 0.2 | 11.5 | 30.7 | 45 | <0.1 | 22.1 | 7.9 | 265 | 2.42 | 0.9 | 0.6 | 8.4 | 7 | <0.1 | <0.1 | 0.7 | 12 | 0.05 |
| DUP 1205765 | QC | | <2 | 0.2 | 9.4 | 32.3 | 39 | <0.1 | 18.2 | 6.7 | 237 | 2.15 | 0.7 | <0.5 | 6.6 | 6 | <0.1 | 0.1 | 0.6 | 10 | 0.04 |
| 1205608 | Rock | 0.72 | <2 | 0.2 | 10.0 | 11.8 | 18 | <0.1 | 6.7 | 2.3 | 123 | 0.81 | 2.2 | <0.5 | 2.5 | 3 | 0.2 | 4.3 | <0.1 | <2 | 0.01 |
| DUP 1205608 | QC | | <2 | 0.2 | 9.4 | 11.1 | 18 | <0.1 | 6.2 | 2.1 | 114 | 0.77 | 2.0 | <0.5 | 2.3 | 2 | 0.2 | 4.0 | <0.1 | <2 | 0.01 |
| 1205643 | Rock | 1.11 | 3 | 0.1 | 48.4 | 10.7 | 26 | 0.1 | 11.5 | 7.5 | 444 | 1.42 | 31.6 | <0.5 | 5.2 | 103 | <0.1 | 2.1 | 0.4 | 5 | 2.41 |
| DUP 1205643 | QC | | <2 | 0.1 | 45.7 | 10.4 | 25 | 0.1 | 11.7 | 7.2 | 446 | 1.37 | 30.0 | <0.5 | 5.0 | 98 | <0.1 | 1.7 | 0.3 | 5 | 2.40 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | | 10.0 | 108.4 | 118.4 | 296 | 1.6 | 40.8 | 7.4 | 521 | 2.19 | 24.4 | 91.9 | 5.6 | 58 | 2.2 | 5.1 | 6.5 | 37 | 0.63 |
| STD DS9 | Standard | | | 11.7 | 108.0 | 124.3 | 302 | 1.9 | 39.6 | 7.5 | 538 | 2.26 | 25.7 | 99.5 | 6.4 | 66 | 2.4 | 5.2 | 7.0 | 37 | 0.66 |
| STD DS9 | Standard | | | 11.5 | 91.8 | 113.8 | 286 | 1.9 | 37.8 | 7.0 | 537 | 2.13 | 23.3 | 103.0 | 6.5 | 58 | 2.1 | 3.9 | 5.2 | 36 | 0.66 |
| STD DS9 | Standard | | | 12.0 | 102.5 | 119.1 | 288 | 1.8 | 36.8 | 7.1 | 514 | 2.18 | 26.6 | 102.3 | 5.8 | 70 | 2.1 | 6.4 | 5.2 | 35 | 0.64 |
| STD DS9 | Standard | | | 13.9 | 110.6 | 135.9 | 332 | 2.0 | 44.0 | 8.3 | 621 | 2.50 | 26.5 | 109.5 | 6.3 | 75 | 2.4 | 4.8 | 7.0 | 41 | 0.75 |

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Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | |
| REP G1-WHI | QC | | | | | | | | | | | | | | | | | | | |
| 1206026 | Rock | 0.007 | 10 | 9 | 0.24 | 15 | 0.002 | <20 | 0.57 | 0.014 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 2 | <1 | <0.2 |
| REP 1206026 | QC | 0.007 | 10 | 9 | 0.25 | 15 | 0.002 | <20 | 0.57 | 0.015 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 2 | <1 | <0.2 |
| 1205755 | Rock | 0.041 | 13 | 21 | <0.01 | 18 | <0.001 | <20 | 0.29 | <0.001 | 0.05 | <0.1 | 0.02 | 0.1 | <0.05 | 2.0 | <0.5 | 2 | <1 | <0.2 |
| REP 1205755 | QC | | | | | | | | | | | | | | | | | | | |
| 1205782 | Rock | 0.035 | 4 | 4 | 2.16 | 29 | <0.001 | <20 | 0.09 | 0.003 | 0.08 | <0.1 | <0.01 | <0.1 | 0.06 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| REP 1205782 | QC | 0.034 | 4 | 4 | 2.18 | 30 | <0.001 | <20 | 0.09 | 0.003 | 0.08 | <0.1 | <0.01 | <0.1 | 0.06 | 1.4 | <0.5 | <1 | <1 | <0.2 |
| 1205789 | Rock | 0.015 | 8 | 11 | 0.03 | 32 | <0.001 | <20 | 0.17 | 0.002 | 0.11 | <0.1 | 0.02 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| REP 1205789 | QC | | | | | | | | | | | | | | | | | | | |
| 1205625 | Rock | 0.047 | 13 | 11 | 0.03 | 77 | <0.001 | <20 | 0.37 | 0.014 | 0.19 | <0.1 | 0.01 | <0.1 | <0.05 | 1.7 | <0.5 | 1 | <1 | <0.2 |
| REP 1205625 | QC | 0.050 | 14 | 10 | 0.03 | 81 | <0.001 | <20 | 0.40 | 0.015 | 0.19 | <0.1 | <0.01 | 0.1 | <0.05 | 1.7 | <0.5 | 1 | <1 | <0.2 |
| 1205631 | Rock | 0.008 | 8 | 9 | <0.01 | 31 | <0.001 | <20 | 0.19 | <0.001 | 0.09 | <0.1 | 0.51 | 0.2 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |
| REP 1205631 | QC | | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1206009 | Rock | 0.015 | 15 | 5 | 0.07 | 73 | 0.002 | <20 | 0.27 | 0.010 | 0.15 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| DUP 1206009 | QC | 0.015 | 15 | 6 | 0.08 | 73 | 0.002 | <20 | 0.29 | 0.011 | 0.15 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205765 | Rock | 0.031 | 3 | 20 | 0.55 | 67 | 0.019 | <20 | 1.10 | 0.016 | 0.30 | <0.1 | <0.01 | 0.1 | <0.05 | 1.5 | <0.5 | 3 | <1 | <0.2 |
| DUP 1205765 | QC | 0.028 | 2 | 18 | 0.47 | 60 | 0.016 | <20 | 0.94 | 0.015 | 0.27 | <0.1 | <0.01 | 0.1 | <0.05 | 1.2 | <0.5 | 3 | <1 | <0.2 |
| 1205608 | Rock | 0.007 | 4 | 13 | <0.01 | 7 | <0.001 | <20 | 0.12 | <0.001 | <0.01 | <0.1 | 0.02 | 0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| DUP 1205608 | QC | 0.007 | 4 | 13 | <0.01 | 6 | <0.001 | <20 | 0.11 | <0.001 | <0.01 | 0.1 | 0.02 | 0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205643 | Rock | 0.014 | 16 | 11 | 0.35 | 29 | 0.002 | <20 | 0.65 | 0.010 | 0.12 | <0.1 | 0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 2 | <1 | <0.2 |
| DUP 1205643 | QC | 0.013 | 16 | 12 | 0.34 | 29 | 0.002 | <20 | 0.64 | 0.010 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 2 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 0.079 | 9 | 114 | 0.57 | 282 | 0.089 | <20 | 0.83 | 0.064 | 0.37 | 2.6 | 0.21 | 5.2 | 0.16 | 1.9 | 5.4 | 4 | 6 | 5.2 |
| STD DS9 | Standard | 0.082 | 10 | 113 | 0.59 | 312 | 0.094 | <20 | 0.86 | 0.069 | 0.38 | 2.8 | 0.22 | 5.2 | 0.16 | 2.1 | 5.2 | 4 | 6 | 5.6 |
| STD DS9 | Standard | 0.079 | 10 | 112 | 0.58 | 310 | 0.093 | <20 | 0.86 | 0.071 | 0.37 | 2.5 | 0.19 | 5.3 | 0.16 | 2.1 | 5.5 | 4 | 5 | 4.9 |
| STD DS9 | Standard | 0.074 | 11 | 110 | 0.58 | 290 | 0.099 | <20 | 0.85 | 0.075 | 0.37 | 2.4 | 0.18 | 5.3 | 0.15 | 1.9 | 5.4 | 4 | 6 | 4.6 |
| STD DS9 | Standard | 0.086 | 13 | 130 | 0.64 | 352 | 0.108 | <20 | 1.00 | 0.087 | 0.42 | 2.8 | 0.28 | 5.8 | 0.18 | 2.5 | 5.7 | 5 | 6 | 5.3 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | | WGHT Wgt kg 0.01 | 3B Au ppb 2 | 1DX Mo ppm 0.1 | 1DX Cu ppm 0.1 | 1DX Pb ppm 0.1 | 1DX Zn ppm 1 | 1DX Ag ppm 0.1 | 1DX Ni ppm 0.1 | 1DX Co ppm 0.1 | 1DX Mn ppm 1 | 1DX Fe % 0.01 | 1DX As ppm 0.5 | 1DX Au ppb 0.5 | 1DX Th ppm 0.1 | 1DX Sr ppm 1 | 1DX Cd ppm 0.1 | 1DX Sb ppm 0.1 | 1DX Bi ppm 0.1 | 1DX V ppm 2 | 1DX Ca % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OREAS45CA | Standard | | | 1.1 | 437.6 | 18.8 | 55 | 0.2 | 213.2 | 86.0 | 848 | 14.41 | 3.9 | 39.7 | 6.9 | 13 | 0.1 | 0.3 | 0.2 | 193 | 0.42 |
| STD OREAS45CA | Standard | | | 1.1 | 434.1 | 19.7 | 55 | 0.3 | 210.6 | 87.2 | 885 | 14.29 | 4.0 | 36.6 | 7.0 | 14 | <0.1 | 0.3 | 0.2 | 192 | 0.42 |
| STD OREAS45CA | Standard | | | 0.9 | 490.4 | 20.5 | 61 | 0.3 | 244.2 | 94.4 | 958 | 16.30 | 3.2 | 39.0 | 6.9 | 14 | <0.1 | 0.2 | 0.2 | 221 | 0.44 |
| STD OREAS45CA | Standard | | | 0.9 | 460.4 | 19.2 | 58 | 0.3 | 225.9 | 89.8 | 894 | 14.80 | 4.5 | 34.5 | 7.0 | 16 | 0.1 | 0.3 | 0.3 | 209 | 0.42 |
| STD OREAS45CA | Standard | | | 0.9 | 495.5 | 18.5 | 68 | 0.3 | 229.2 | 87.5 | 881 | 14.77 | 3.5 | 35.7 | 6.4 | 13 | <0.1 | 0.2 | 0.2 | 196 | 0.38 |
| STD OXC88 | Standard | | 187 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 216 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 199 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 211 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 970 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 940 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 926 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 964 | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | 203 | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | 932 | | | | | | | | | | | | | | | | | | |
| STD DS9 Expected | | | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 |
| STD OREAS45CA Expected | | | | 1 | 494 | 20 | 60 | 0.275 | 240 | 92 | 943 | 15.69 | 3.8 | 43 | 7 | 15 | 0.1 | 0.13 | 0.19 | 215 | 0.4265 |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | 3 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |

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Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | | 1DX P % 0.001 | 1DX La ppm 1 | 1DX Cr ppm 1 | 1DX Mg % 0.01 | 1DX Ba ppm 1 | 1DX Ti % 0.001 | 1DX B ppm 20 | 1DX Al % 0.01 | 1DX Na % 0.001 | 1DX K % 0.01 | 1DX W ppm 0.1 | 1DX Hg ppm 0.01 | 1DX Tl ppm 0.1 | 1DX S % 0.05 | 1DX Sc ppm 0.1 | 1DX Se ppm 0.5 | 1DX Ga ppm 1 | 1DX Sn ppm 1 | 1DX Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OREAS45CA | Standard | 0.034 | 13 | 643 | 0.11 | 146 | 0.108 | <20 | 2.97 | 0.010 | 0.07 | <0.1 | 0.03 | <0.1 | <0.05 | 37.6 | <0.5 | 17 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.033 | 14 | 631 | 0.11 | 155 | 0.102 | <20 | 2.95 | 0.009 | 0.07 | <0.1 | 0.03 | <0.1 | <0.05 | 37.6 | <0.5 | 17 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.040 | 16 | 797 | 0.14 | 172 | 0.126 | <20 | 3.57 | 0.007 | 0.07 | <0.1 | 0.04 | 0.1 | <0.05 | 44.5 | <0.5 | 19 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.035 | 15 | 584 | 0.14 | 162 | 0.127 | <20 | 3.13 | 0.007 | 0.07 | <0.1 | 0.02 | <0.1 | <0.05 | 39.9 | <0.5 | 18 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.037 | 15 | 740 | 0.13 | 159 | 0.120 | <20 | 3.35 | 0.012 | 0.07 | <0.1 | 0.02 | 0.1 | <0.05 | 40.7 | <0.5 | 18 | 2 | <0.2 |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | | | |
| STD DS9 Expected | | 0.0819 | 13.3 | 121 | 0.6165 | 330 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 5.3 | 0.1615 | 2.5 | 5.2 | 4.59 | | 5.02 |
| STD OREAS45CA Expected | | 0.0385 | 15.9 | 709 | 0.1358 | 164 | 0.128 | | 3.592 | 0.0075 | 0.0717 | | 0.03 | 0.07 | 0.021 | 39.7 | 0.5 | 18.4 | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | 0.02 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | | WGHT Wgt kg 0.01 | 3B Au ppb 2 | 1DX Mo ppm 0.1 | 1DX Cu ppm 0.1 | 1DX Pb ppm 0.1 | 1DX Zn ppm 1 | 1DX Ag ppm 0.1 | 1DX Ni ppm 0.1 | 1DX Co ppm 0.1 | 1DX Mn ppm 1 | 1DX Fe % 0.01 | 1DX As ppm 0.5 | 1DX Au ppb 0.5 | 1DX Th ppm 0.1 | 1DX Sr ppm 1 | 1DX Cd ppm 0.1 | 1DX Sb ppm 0.1 | 1DX Bi ppm 0.1 | 1DX V ppm 2 | 1DX Ca % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | | 3 | 0.1 | 3.2 | 2.8 | 48 | <0.1 | 2.3 | 4.1 | 632 | 2.19 | <0.5 | 0.8 | 5.6 | 68 | <0.1 | <0.1 | <0.1 | 40 | 0.53 |
| G1-WHI | Prep Blank | | | <0.1 | 2.1 | 2.8 | 45 | <0.1 | 2.2 | 3.7 | 580 | 1.98 | <0.5 | <0.5 | 6.4 | 52 | <0.1 | <0.1 | <0.1 | 36 | 0.41 |
| G1-WHI | Prep Blank | | <2 | | | | | | | | | | | | | | | | | | |

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Project: MQ
Report Date: July 13, 2012



# QUALITY CONTROL REPORT WHI12000144.1

| | | 1DX P % 0.001 | 1DX La ppm 1 | 1DX Cr ppm 1 | 1DX Mg % 0.01 | 1DX Ba ppm 1 | 1DX Ti % 0.001 | 1DX B ppm 20 | 1DX Al % 0.01 | 1DX Na % 0.001 | 1DX K % 0.01 | 1DX W ppm 0.1 | 1DX Hg ppm 0.01 | 1DX Tl ppm 0.1 | 1DX S % 0.05 | 1DX Sc ppm 0.1 | 1DX Se ppm 0.5 | 1DX Ga ppm 1 | 1DX Sn ppm 1 | 1DX Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | 0.085 | 12 | 5 | 0.52 | 168 | 0.127 | <20 | 0.97 | 0.103 | 0.50 | <0.1 | <0.01 | 0.3 | <0.05 | 2.4 | <0.5 | 5 | <1 | <0.2 |
| G1-WHI | Prep Blank | 0.079 | 12 | 4 | 0.48 | 157 | 0.115 | <20 | 0.84 | 0.078 | 0.45 | <0.1 | <0.01 | 0.3 | <0.05 | 2.3 | <0.5 | 5 | <1 | <0.2 |
| G1-WHI | Prep Blank | | | | | | | | | | | | | | | | | | | |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 26, 2012
Report Date: July 09, 2012
Page: 1 of 5

# CERTIFICATE OF ANALYSIS WHI12000170.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQRx2
P.O. Number
Number of Samples: 113

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| R200-250 | 113 | Crush, split and pulverize 250 g rock to 200 mesh | | | WHI |
| 3B | 113 | Fire assay fusion Au by ICP-ES | 30 | Completed | VAN |
| 1DX | 113 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 0.5 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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**Client:** **Goldspike Exploration Inc.**
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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205645 | Rock | 0.41 | <2 | 0.1 | 4.0 | 8.3 | 16 | <0.1 | 1.9 | 0.7 | 47 | 0.40 | 1.3 | 1.8 | 0.1 | 1 | <0.1 | 0.2 | <0.1 | <2 | 0.04 |
| 1205646 | Rock | 0.79 | <2 | 0.2 | 3.9 | 14.0 | 9 | 0.1 | 4.1 | 1.4 | 67 | 0.70 | 1.4 | 1.4 | 2.6 | 3 | <0.1 | 1.0 | 0.2 | 2 | 0.01 |
| 1205647 | Rock | 0.90 | <2 | 0.1 | 13.0 | 19.6 | 34 | <0.1 | 13.4 | 5.2 | 126 | 1.66 | 1.1 | 1.4 | 4.9 | 3 | <0.1 | 0.1 | 0.5 | 6 | 0.03 |
| 1205648 | Rock | 1.08 | <2 | 0.3 | 3.1 | 5.7 | 6 | <0.1 | 3.7 | 2.2 | 431 | 0.71 | 1.4 | 1.5 | 2.4 | 46 | <0.1 | 0.6 | <0.1 | <2 | 0.88 |
| 1205649 | Rock | 0.62 | 3 | 0.4 | 15.8 | 12.8 | 34 | <0.1 | 20.8 | 10.2 | 550 | 2.24 | 6.2 | 6.1 | 6.3 | 11 | <0.1 | 0.4 | 0.2 | 13 | 0.11 |
| 1205650 | Rock | 1.20 | <2 | 0.4 | 3.9 | 2.9 | 6 | <0.1 | 10.9 | 5.4 | 313 | 0.90 | 1.8 | 1.6 | 6.9 | 4 | <0.1 | 0.5 | <0.1 | 2 | 0.03 |
| 1205651 | Rock | 0.58 | <2 | 0.3 | 4.3 | 4.8 | 21 | <0.1 | 12.4 | 5.1 | 308 | 1.11 | 1.1 | <0.5 | 5.3 | 3 | <0.1 | 0.1 | <0.1 | 5 | 0.04 |
| 1205652 | Rock | 0.63 | <2 | 0.3 | 4.8 | 4.6 | 9 | <0.1 | 4.6 | 2.4 | 276 | 1.01 | 2.1 | 0.9 | 1.6 | 12 | <0.1 | 0.3 | <0.1 | <2 | 0.98 |
| 1205653 | Rock | 0.94 | 12 | 0.4 | 45.5 | 1142 | 164 | 9.7 | 6.1 | 2.1 | 164 | 1.39 | 11.1 | 17.0 | 3.6 | 5 | 3.7 | 2.2 | 13.7 | <2 | 0.25 |
| 1205654 | Rock | 1.00 | <2 | 0.3 | 8.0 | 3.3 | 8 | <0.1 | 4.4 | 2.0 | 53 | 0.74 | 0.7 | <0.5 | 9.3 | 4 | <0.1 | 0.2 | <0.1 | 5 | 0.03 |
| 1205655 | Rock | 0.61 | <2 | 0.3 | 36.4 | 9.5 | 51 | <0.1 | 39.6 | 21.8 | 618 | 4.17 | 2.5 | 1.1 | 3.5 | 4 | <0.1 | 0.2 | <0.1 | 105 | 0.20 |
| 1205656 | Rock | 0.61 | <2 | 0.4 | 38.3 | 24.0 | 11 | <0.1 | 7.0 | 8.2 | 250 | 1.14 | 5.5 | 2.7 | 3.2 | 4 | <0.1 | 0.1 | 1.4 | 3 | 0.02 |
| 1205657 | Rock | 0.56 | 10 | <0.1 | 3.8 | 84.0 | 6 | 0.1 | 3.0 | 1.3 | 153 | 0.64 | 1.7 | 0.6 | 1.1 | 9 | <0.1 | <0.1 | 0.3 | <2 | 0.18 |
| 1205658 | Rock | 1.35 | <2 | 0.1 | 2.0 | 236.1 | 10 | 0.3 | 2.4 | 0.8 | 117 | 0.48 | 0.8 | <0.5 | 0.4 | 2 | 0.1 | 0.2 | 0.8 | <2 | 0.04 |
| 1205659 | Rock | 0.70 | <2 | 0.1 | 156.9 | 915.7 | 332 | 1.1 | 2.0 | 1.5 | 150 | 0.50 | 0.8 | 1.1 | 1.3 | 6 | 3.7 | <0.1 | 3.3 | <2 | 0.07 |
| 1205660 | Rock | 1.07 | <2 | 0.5 | 10.5 | 35.2 | 24 | <0.1 | 8.5 | 5.3 | 1250 | 2.43 | 1.7 | <0.5 | 4.4 | 241 | 0.2 | 0.1 | 0.3 | 3 | 5.32 |
| 1205661 | Rock | 1.04 | <2 | 0.4 | 31.2 | 14.5 | 67 | <0.1 | 11.1 | 6.8 | 212 | 3.69 | <0.5 | <0.5 | 11.5 | 12 | <0.1 | 0.1 | 0.3 | 10 | 0.04 |
| 1205662 | Rock | 1.06 | <2 | 0.2 | 8.3 | 5.2 | 17 | <0.1 | 6.7 | 3.8 | 1078 | 1.77 | 4.3 | 1.5 | 5.9 | 53 | 0.2 | 0.1 | <0.1 | 3 | 1.97 |
| 1205663 | Rock | 0.54 | <2 | 0.1 | 7.4 | 6.4 | 13 | <0.1 | 7.0 | 3.4 | 182 | 0.78 | 0.7 | 0.8 | 1.2 | 18 | <0.1 | <0.1 | <0.1 | <2 | 0.38 |
| 1205664 | Rock | 0.89 | <2 | <0.1 | 1.4 | 20.4 | 6 | <0.1 | 2.3 | 1.4 | 754 | 0.60 | 0.7 | 0.7 | 0.7 | 235 | <0.1 | <0.1 | 0.1 | <2 | 4.20 |
| 1205665 | Rock | 0.88 | <2 | 0.2 | 24.6 | 10.0 | 17 | <0.1 | 7.6 | 3.5 | 213 | 1.37 | 3.8 | 0.8 | 7.1 | 2 | <0.1 | <0.1 | <0.1 | 4 | 0.05 |
| 1205793 | Rock | 1.11 | <2 | 0.2 | 6.7 | 3.9 | 27 | <0.1 | 5.5 | 1.4 | 58 | 0.47 | 2.0 | 1.2 | 1.3 | 3 | <0.1 | 1.3 | <0.1 | <2 | 0.03 |
| 1205794 | Rock | 1.02 | <2 | 0.2 | 11.4 | 4.3 | 11 | <0.1 | 8.2 | 1.4 | 43 | 0.79 | 1.3 | 1.4 | 2.5 | 9 | <0.1 | 0.1 | <0.1 | 3 | <0.01 |
| 1205795 | Rock | 1.05 | <2 | 0.1 | 6.7 | 2.6 | 7 | <0.1 | 3.9 | 2.2 | 39 | 0.39 | 0.9 | 1.2 | 2.4 | 2 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1205796 | Rock | 1.49 | <2 | 0.2 | 1.2 | 12.4 | 20 | <0.1 | 10.1 | 4.8 | 194 | 1.35 | 6.2 | <0.5 | 19.7 | 130 | <0.1 | 0.5 | <0.1 | 31 | 0.84 |
| 1205797 | Rock | 1.18 | <2 | 0.4 | 4.7 | 2.4 | 6 | <0.1 | 4.0 | 1.3 | 361 | 0.93 | 0.5 | <0.5 | 4.8 | 34 | <0.1 | <0.1 | <0.1 | 3 | 0.66 |
| 1205798 | Rock | 0.95 | <2 | 0.2 | 2.8 | 11.1 | 13 | <0.1 | 6.2 | 2.9 | 242 | 0.81 | 1.7 | <0.5 | 5.6 | 5 | <0.1 | <0.1 | <0.1 | 2 | 0.06 |
| 1205799 | Rock | 1.80 | <2 | 0.2 | 6.8 | 6.4 | 11 | <0.1 | 11.2 | 3.7 | 217 | 1.16 | 2.3 | 0.8 | 6.2 | 18 | <0.1 | <0.1 | <0.1 | 3 | 0.18 |
| 1205800 | Rock | 0.85 | <2 | 0.3 | 4.0 | 8.5 | 15 | <0.1 | 6.3 | 3.2 | 158 | 0.94 | 0.8 | <0.5 | 4.9 | 3 | <0.1 | 0.1 | <0.1 | 3 | 0.03 |
| 1205801 | Rock | 0.93 | <2 | 0.3 | 4.5 | 8.6 | 23 | <0.1 | 7.4 | 3.3 | 230 | 0.95 | 2.2 | 2.2 | 4.6 | 3 | <0.1 | 0.1 | <0.1 | 4 | 0.01 |

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205645 | Rock | 0.004 | <1 | 14 | <0.01 | 4 | <0.001 | <20 | 0.02 | 0.004 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | 2 | <0.2 |
| 1205646 | Rock | 0.008 | 5 | 15 | 0.03 | 7 | 0.001 | <20 | 0.12 | 0.028 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205647 | Rock | 0.013 | 10 | 12 | 0.35 | 9 | 0.002 | <20 | 0.72 | 0.025 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |
| 1205648 | Rock | 0.029 | 4 | 13 | 0.03 | 26 | <0.001 | <20 | 0.09 | 0.054 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | <1 | <1 | <0.2 |
| 1205649 | Rock | 0.025 | 19 | 17 | 0.23 | 130 | 0.005 | <20 | 0.66 | 0.010 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | <0.5 | 2 | <1 | <0.2 |
| 1205650 | Rock | 0.012 | 12 | 14 | 0.09 | 42 | 0.001 | <20 | 0.23 | 0.019 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205651 | Rock | 0.015 | 11 | 14 | 0.20 | 33 | 0.002 | <20 | 0.41 | 0.026 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| 1205652 | Rock | 0.015 | 2 | 14 | 0.06 | 14 | <0.001 | <20 | 0.06 | 0.003 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205653 | Rock | 0.007 | 7 | 7 | 0.02 | 19 | <0.001 | <20 | 0.14 | 0.005 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | 0.8 | <1 | <1 | 1.7 |
| 1205654 | Rock | 0.014 | 15 | 21 | 0.12 | 9 | 0.001 | <20 | 0.21 | 0.051 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1205655 | Rock | 0.038 | 6 | 56 | 1.25 | 39 | 0.214 | <20 | 1.77 | 0.010 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 8.5 | <0.5 | 6 | <1 | <0.2 |
| 1205656 | Rock | 0.011 | 7 | 12 | 0.21 | 19 | 0.002 | <20 | 0.39 | 0.005 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | 1 | <1 | <0.2 |
| 1205657 | Rock | 0.004 | 2 | 13 | 0.05 | 10 | 0.001 | <20 | 0.06 | 0.008 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205658 | Rock | 0.006 | <1 | 24 | <0.01 | 5 | <0.001 | <20 | 0.03 | 0.005 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205659 | Rock | 0.004 | 2 | 16 | 0.02 | 10 | <0.001 | <20 | 0.07 | 0.016 | 0.03 | <0.1 | 0.27 | <0.1 | 0.05 | 0.2 | 1.5 | <1 | <1 | 0.9 |
| 1205660 | Rock | 0.016 | 8 | 13 | 0.43 | 23 | <0.001 | <20 | 0.25 | 0.040 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 3.7 | <0.5 | <1 | <1 | <0.2 |
| 1205661 | Rock | 0.014 | 25 | 18 | 0.57 | 40 | 0.002 | <20 | 1.37 | 0.021 | 0.15 | <0.1 | <0.01 | 0.1 | <0.05 | 1.2 | <0.5 | 4 | <1 | <0.2 |
| 1205662 | Rock | 0.006 | 8 | 16 | 0.32 | 13 | <0.001 | <20 | 0.15 | 0.040 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 2.1 | <0.5 | <1 | <1 | <0.2 |
| 1205663 | Rock | 0.008 | 5 | 17 | 0.14 | 5 | <0.001 | <20 | 0.13 | 0.003 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205664 | Rock | 0.017 | 1 | 12 | 0.12 | 12 | <0.001 | <20 | 0.08 | 0.004 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 2.5 | <0.5 | <1 | <1 | <0.2 |
| 1205665 | Rock | 0.014 | 12 | 15 | 0.07 | 25 | <0.001 | <20 | 0.26 | 0.027 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1205793 | Rock | 0.012 | 2 | 21 | <0.01 | 24 | <0.001 | <20 | 0.07 | 0.001 | 0.07 | <0.1 | 0.09 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205794 | Rock | 0.016 | 6 | 11 | <0.01 | 33 | <0.001 | <20 | 0.15 | 0.001 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205795 | Rock | 0.006 | 3 | 21 | <0.01 | 8 | <0.001 | <20 | 0.03 | <0.001 | 0.01 | <0.1 | 0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205796 | Rock | 0.083 | 24 | 45 | 0.72 | 247 | 0.083 | <20 | 1.84 | 0.127 | 0.10 | 0.1 | 0.02 | <0.1 | <0.05 | 1.7 | <0.5 | 6 | <1 | <0.2 |
| 1205797 | Rock | 0.011 | 7 | 15 | 0.19 | 42 | <0.001 | <20 | 0.08 | 0.044 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| 1205798 | Rock | 0.010 | 10 | 17 | 0.03 | 23 | <0.001 | <20 | 0.14 | 0.017 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205799 | Rock | 0.012 | 10 | 17 | 0.07 | 70 | <0.001 | <20 | 0.09 | 0.052 | 0.01 | <0.1 | 0.01 | <0.1 | 0.21 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| 1205800 | Rock | 0.010 | 8 | 16 | 0.07 | 13 | 0.001 | <20 | 0.19 | 0.027 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1205801 | Rock | 0.010 | 9 | 14 | 0.02 | 43 | 0.003 | <20 | 0.17 | 0.004 | 0.02 | <0.1 | 0.02 | <0.1 | <0.05 | 1.1 | <0.5 | <1 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205802 | Rock | 1.33 | <2 | 0.4 | 6.1 | 5.3 | 10 | <0.1 | 7.6 | 2.8 | 146 | 1.42 | 1.6 | <0.5 | 8.0 | 2 | <0.1 | 0.2 | <0.1 | 5 | <0.01 |
| 1205803 | Rock | 0.93 | <2 | 0.4 | 18.9 | 8.0 | 49 | <0.1 | 28.3 | 11.7 | 185 | 2.00 | 0.5 | 0.7 | 8.1 | 8 | <0.1 | <0.1 | <0.1 | 8 | 0.01 |
| 1205804 | Rock | 0.93 | <2 | 0.1 | 6.3 | 0.8 | 6 | <0.1 | 4.2 | 1.8 | 64 | 0.72 | 0.8 | <0.5 | 1.2 | 3 | <0.1 | <0.1 | <0.1 | <2 | 0.01 |
| 1205805 | Rock | 0.99 | <2 | 0.3 | 13.6 | 34.2 | 23 | <0.1 | 10.5 | 5.1 | 235 | 0.94 | 2.1 | 2.1 | 2.0 | 12 | <0.1 | 0.1 | 0.4 | 2 | 0.09 |
| 1205806 | Rock | 1.27 | <2 | 0.4 | 2.7 | 4.1 | 8 | <0.1 | 2.7 | 1.1 | 193 | 0.89 | 1.1 | 1.2 | 0.2 | 16 | <0.1 | 0.3 | <0.1 | <2 | 0.30 |
| 1205807 | Rock | 1.57 | 9 | 0.3 | 6.2 | 2.1 | 17 | 0.1 | 5.0 | 2.3 | 705 | 1.09 | 3.2 | 2.8 | 0.8 | 4 | 0.2 | 0.1 | <0.1 | <2 | 0.33 |
| 1205808 | Rock | 1.28 | <2 | 0.3 | 15.7 | 17.8 | 26 | 0.1 | 12.2 | 4.3 | 267 | 1.23 | 3.4 | 0.7 | 7.2 | 13 | 0.1 | 0.1 | <0.1 | 3 | 0.15 |
| 1205809 | Rock | 1.21 | <2 | 0.2 | 5.0 | 9.5 | 21 | <0.1 | 7.3 | 4.7 | 876 | 1.09 | 7.1 | 1.2 | 1.4 | 109 | <0.1 | 0.1 | <0.1 | <2 | 2.96 |
| 1205810 | Rock | 1.22 | <2 | 0.1 | 4.9 | 18.6 | 19 | <0.1 | 7.2 | 2.8 | 650 | 1.64 | 4.2 | <0.5 | 2.5 | 627 | 0.2 | 0.1 | <0.1 | <2 | 12.64 |
| 1205811 | Rock | 1.07 | <2 | 0.2 | 4.8 | 80.2 | 44 | 0.6 | 6.3 | 2.2 | 320 | 0.81 | 1.4 | 0.9 | 1.3 | 2 | 0.7 | <0.1 | 0.7 | <2 | 0.27 |
| 1205812 | Rock | 1.18 | <2 | 0.5 | 10.0 | 12.1 | 15 | <0.1 | 7.2 | 4.0 | 259 | 1.36 | 10.6 | <0.5 | 2.2 | 48 | <0.1 | 0.3 | <0.1 | <2 | 0.72 |
| 1205813 | Rock | 1.15 | <2 | 0.2 | 9.6 | 26.8 | 30 | 0.2 | 8.5 | 4.0 | 432 | 1.15 | 1.4 | 0.6 | 1.6 | 154 | 0.3 | <0.1 | 0.2 | 11 | 2.63 |
| 1205814 | Rock | 1.53 | <2 | 0.2 | 11.3 | 89.1 | 31 | 0.5 | 12.7 | 5.8 | 905 | 3.16 | 2.5 | <0.5 | 2.1 | 176 | 0.1 | 0.6 | 0.7 | <2 | 3.57 |
| 1205815 | Rock | 1.09 | <2 | 0.2 | 1.3 | 5.5 | 7 | <0.1 | 1.7 | 0.4 | 124 | 0.43 | 2.1 | <0.5 | 0.2 | 50 | 0.1 | <0.1 | <0.1 | <2 | 1.27 |
| 1205816 | Rock | 1.35 | <2 | 0.2 | 2.7 | 68.0 | 28 | 0.1 | 8.0 | 3.0 | 305 | 1.31 | 1.7 | <0.5 | 1.1 | 25 | <0.1 | <0.1 | 1.1 | 2 | 0.44 |
| 1205817 | Rock | 0.65 | <2 | 0.2 | 4.2 | 9.2 | 12 | <0.1 | 4.6 | 2.0 | 287 | 0.82 | 3.1 | 1.5 | 2.3 | 120 | <0.1 | 0.2 | <0.1 | 2 | 5.09 |
| 1205818 | Rock | 0.31 | <2 | 0.2 | 5.5 | 14.3 | 14 | <0.1 | 5.3 | 2.3 | 386 | 0.84 | 4.6 | <0.5 | 1.7 | 241 | 0.2 | 0.3 | <0.1 | <2 | 4.79 |
| 1205819 | Rock | 1.12 | <2 | 0.1 | 1.8 | 25.4 | 11 | 0.2 | 1.9 | 0.7 | 154 | 0.46 | 0.8 | <0.5 | 0.4 | 115 | <0.1 | 0.4 | 0.3 | <2 | 2.26 |
| 1205820 | Rock | 0.88 | <2 | 0.2 | 6.2 | 22.0 | 12 | <0.1 | 5.5 | 2.2 | 270 | 0.81 | 3.6 | 0.5 | 4.1 | 80 | 0.1 | <0.1 | 0.3 | <2 | 1.45 |
| 1205821 | Rock | 1.45 | <2 | 0.2 | 1.2 | 5.4 | 1 | <0.1 | 1.7 | 0.5 | 61 | 0.41 | <0.5 | <0.5 | 0.2 | 2 | <0.1 | <0.1 | <0.1 | <2 | 0.04 |
| 1205822 | Rock | 1.10 | 6 | 0.2 | 5.0 | 20.1 | 21 | <0.1 | 4.0 | 1.9 | 260 | 0.99 | 1.0 | 0.5 | 1.4 | 22 | <0.1 | 0.1 | 0.1 | <2 | 0.48 |
| 1205823 | Rock | 1.19 | 4 | 0.2 | 6.0 | 22.8 | 24 | 0.1 | 9.7 | 4.8 | 557 | 1.29 | 19.9 | 1.1 | 6.3 | 98 | <0.1 | 0.2 | <0.1 | 2 | 1.93 |
| 1205853 | Rock | 1.29 | <2 | 0.4 | 8.4 | 10.4 | 21 | <0.1 | 11.1 | 6.7 | 690 | 1.56 | 3.0 | <0.5 | 7.2 | 5 | 0.1 | <0.1 | <0.1 | 4 | 0.01 |
| 1205854 | Rock | 0.84 | <2 | 0.4 | 5.8 | 8.6 | 21 | <0.1 | 8.1 | 5.2 | 214 | 1.22 | 2.3 | <0.5 | 8.4 | 4 | <0.1 | <0.1 | <0.1 | 4 | 0.01 |
| 1205855 | Rock | 1.17 | <2 | 0.3 | 10.9 | 7.4 | 14 | <0.1 | 10.0 | 4.8 | 319 | 1.27 | 4.9 | <0.5 | 8.7 | 4 | <0.1 | 0.7 | 0.1 | 2 | 0.03 |
| 1205856 | Rock | 0.52 | 11 | 0.9 | 3.6 | 6.7 | 12 | <0.1 | 5.4 | 2.8 | 425 | 0.91 | 6.2 | <0.5 | 4.2 | 4 | <0.1 | 0.2 | <0.1 | 3 | 0.04 |
| 1205857 | Rock | 1.28 | <2 | 0.2 | 3.2 | 1.9 | 5 | <0.1 | 3.7 | 1.8 | 124 | 0.65 | 0.8 | <0.5 | 6.5 | 3 | <0.1 | 0.1 | <0.1 | <2 | 0.03 |
| 1205858 | Rock | 2.11 | <2 | 0.4 | 4.9 | 10.1 | 24 | <0.1 | 9.6 | 3.6 | 743 | 1.33 | 25.8 | 1.0 | 8.3 | 14 | <0.1 | 1.0 | <0.1 | 3 | 0.79 |
| 1205859 | Rock | 1.08 | <2 | 0.2 | 9.9 | 4.6 | 18 | <0.1 | 10.5 | 5.7 | 533 | 0.77 | 0.5 | <0.5 | 5.8 | 133 | <0.1 | <0.1 | <0.1 | 5 | 1.58 |
| 1205860 | Rock | 1.25 | 5 | 0.1 | 22.4 | 7.9 | 43 | <0.1 | 11.3 | 7.2 | 314 | 2.61 | <0.5 | <0.5 | 4.9 | 4 | <0.1 | 0.3 | 0.2 | 13 | 0.03 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| | | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205802 | Rock | | 0.012 | 9 | 16 | 0.01 | 12 | 0.001 | <20 | 0.17 | 0.003 | 0.02 | <0.1 | 0.02 | <0.1 | <0.05 | 1.1 | <0.5 | <1 | <1 | <0.2 |
| 1205803 | Rock | | 0.015 | 15 | 16 | 0.34 | 24 | 0.002 | <20 | 0.75 | 0.028 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 1.3 | <0.5 | 3 | <1 | <0.2 |
| 1205804 | Rock | | 0.007 | 2 | 19 | <0.01 | 9 | <0.001 | <20 | 0.05 | 0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205805 | Rock | | 0.042 | 5 | 5 | 0.07 | 31 | 0.001 | <20 | 0.23 | 0.010 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | 4 | <0.2 |
| 1205806 | Rock | | 0.060 | <1 | 4 | <0.01 | 12 | <0.001 | <20 | 0.03 | 0.003 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205807 | Rock | | 0.013 | 1 | 3 | 0.06 | 30 | <0.001 | <20 | 0.14 | 0.005 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205808 | Rock | | 0.033 | 11 | 7 | 0.15 | 42 | 0.001 | <20 | 0.42 | 0.022 | 0.13 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 1 | <1 | <0.2 |
| 1205809 | Rock | | 0.055 | 2 | 2 | 0.15 | 15 | <0.001 | <20 | 0.27 | 0.011 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | <1 | <1 | <0.2 |
| 1205810 | Rock | | 0.020 | 2 | 2 | 0.22 | 29 | <0.001 | <20 | 0.12 | 0.008 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 2.2 | <0.5 | <1 | <1 | <0.2 |
| 1205811 | Rock | | 0.038 | 1 | 4 | 0.11 | 6 | <0.001 | <20 | 0.21 | 0.006 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205812 | Rock | | 0.001 | 4 | 4 | 0.15 | 23 | <0.001 | <20 | 0.11 | 0.016 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1205813 | Rock | | 0.019 | 2 | 6 | 0.22 | 19 | 0.030 | <20 | 0.33 | 0.016 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| 1205814 | Rock | | 0.052 | 5 | 3 | 0.47 | 17 | <0.001 | <20 | 0.08 | 0.047 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 2.9 | <0.5 | <1 | <1 | <0.2 |
| 1205815 | Rock | | <0.001 | <1 | 2 | 0.01 | 7 | <0.001 | <20 | 0.01 | 0.002 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205816 | Rock | | 0.016 | 1 | 3 | 0.20 | 16 | 0.002 | <20 | 0.42 | 0.003 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | 1 | <1 | <0.2 |
| 1205817 | Rock | | 0.005 | 4 | 3 | 0.10 | 31 | 0.001 | <20 | 0.14 | 0.009 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | <1 | <1 | <0.2 |
| 1205818 | Rock | | 0.008 | 2 | 3 | 0.08 | 19 | <0.001 | <20 | 0.09 | 0.008 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1205819 | Rock | | 0.050 | <1 | 2 | 0.04 | 7 | <0.001 | <20 | 0.03 | 0.002 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205820 | Rock | | 0.006 | 7 | 4 | 0.02 | 20 | <0.001 | <20 | 0.10 | 0.012 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205821 | Rock | | 0.011 | <1 | 2 | <0.01 | 7 | <0.001 | <20 | 0.02 | 0.001 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1205822 | Rock | | 0.008 | 1 | 3 | 0.14 | 16 | <0.001 | <20 | 0.23 | 0.010 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205823 | Rock | | 0.014 | 9 | 5 | 0.14 | 41 | 0.001 | <20 | 0.31 | 0.022 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | <1 | <1 | <0.2 |
| 1205853 | Rock | | 0.010 | 14 | 6 | 0.04 | 59 | <0.001 | <20 | 0.26 | 0.017 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1205854 | Rock | | 0.007 | 14 | 7 | 0.15 | 25 | <0.001 | <20 | 0.40 | 0.020 | 0.07 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 1 | <1 | <0.2 |
| 1205855 | Rock | | 0.012 | 18 | 4 | 0.03 | 74 | 0.001 | <20 | 0.30 | 0.003 | 0.16 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205856 | Rock | | 0.013 | 8 | 4 | 0.08 | 53 | 0.002 | <20 | 0.24 | 0.009 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205857 | Rock | | 0.010 | 11 | 4 | 0.10 | 29 | <0.001 | <20 | 0.22 | 0.015 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1205858 | Rock | | 0.012 | 13 | 6 | 0.15 | 50 | <0.001 | <20 | 0.35 | 0.022 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1205859 | Rock | | 0.016 | 9 | 10 | 0.16 | 25 | 0.003 | <20 | 0.22 | 0.019 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 1.2 | <0.5 | 1 | <1 | <0.2 |
| 1205860 | Rock | | 0.013 | 8 | 12 | 0.51 | 18 | 0.015 | <20 | 1.04 | 0.014 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 1.4 | <0.5 | 3 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1205861 | Rock | 1.33 | 4 | 0.3 | 2.4 | 13.4 | 5 | <0.1 | 2.2 | 0.9 | 38 | 0.53 | 36.3 | 4.7 | 4.4 | 14 | <0.1 | 10.1 | <0.1 | 3 | <0.01 |
| 1205862 | Rock | 1.06 | <2 | 0.5 | 13.3 | 7.4 | 24 | <0.1 | 11.2 | 3.7 | 89 | 1.37 | <0.5 | <0.5 | 8.2 | 3 | <0.1 | 1.1 | <0.1 | 7 | <0.01 |
| 1205863 | Rock | 1.22 | <2 | 0.2 | 6.5 | 4.1 | 17 | <0.1 | 8.0 | 2.7 | 96 | 1.23 | 2.2 | <0.5 | 7.2 | 6 | <0.1 | 1.0 | <0.1 | 2 | <0.01 |
| 1205864 | Rock | 0.89 | <2 | 0.3 | 11.4 | 4.2 | 3 | <0.1 | 5.1 | 2.4 | 58 | 0.81 | 0.6 | <0.5 | 6.6 | 10 | <0.1 | 0.9 | <0.1 | <2 | 0.04 |
| 1206030 | Rock | 0.67 | <2 | 0.2 | 1.5 | 1.2 | 4 | <0.1 | 2.1 | 0.8 | 88 | 0.58 | 0.6 | <0.5 | 0.5 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1206031 | Rock | 0.55 | <2 | 0.3 | 5.0 | 5.2 | 12 | <0.1 | 7.5 | 2.9 | 174 | 1.01 | 1.9 | <0.5 | 5.4 | 4 | <0.1 | 0.2 | <0.1 | <2 | 0.01 |
| 1206032 | Rock | 0.40 | <2 | 0.3 | 4.7 | 6.1 | 25 | <0.1 | 8.8 | 4.5 | 247 | 1.40 | 0.8 | <0.5 | 4.1 | 3 | <0.1 | <0.1 | <0.1 | 4 | 0.02 |
| 1206033 | Rock | 0.55 | <2 | 0.3 | 4.6 | 10.1 | 27 | <0.1 | 8.3 | 4.0 | 250 | 1.39 | <0.5 | <0.5 | 4.8 | 4 | <0.1 | <0.1 | <0.1 | 4 | 0.02 |
| 1206034 | Rock | 0.54 | <2 | 0.2 | 7.7 | 11.4 | 25 | <0.1 | 23.5 | 7.8 | 253 | 1.16 | 0.5 | 1.3 | 3.2 | 4 | <0.1 | <0.1 | <0.1 | 5 | 0.06 |
| 1206035 | Rock | 0.56 | <2 | 0.3 | 39.1 | 25.8 | 99 | <0.1 | 31.8 | 17.1 | 438 | 4.10 | 14.0 | 1.1 | 14.4 | 11 | <0.1 | <0.1 | 0.7 | 16 | 0.07 |
| 1206036 | Rock | 0.45 | <2 | 0.1 | 2.8 | 3.0 | 4 | <0.1 | 1.7 | 0.6 | 104 | 0.42 | 13.0 | <0.5 | 1.6 | 6 | <0.1 | 0.2 | <0.1 | <2 | 0.42 |
| 1206037 | Rock | 0.36 | <2 | 0.7 | 6.3 | 21.1 | 12 | <0.1 | 5.3 | 3.0 | 423 | 0.97 | 5.6 | 1.0 | 3.2 | 59 | <0.1 | 0.2 | <0.1 | 3 | 0.88 |
| 1206038 | Rock | 0.94 | <2 | 0.1 | 3.7 | 18.7 | 15 | <0.1 | 3.2 | 1.8 | 158 | 0.48 | 2.8 | <0.5 | 4.1 | 87 | <0.1 | 0.3 | <0.1 | <2 | 0.87 |
| 1206039 | Rock | 0.79 | <2 | 0.2 | 2.7 | 3.3 | 16 | <0.1 | 4.6 | 1.7 | 232 | 0.88 | 1.9 | 1.1 | 0.5 | 27 | <0.1 | 0.9 | <0.1 | <2 | 0.81 |
| 1206040 | Rock | 0.73 | <2 | 0.2 | 15.6 | 143.1 | 5 | 0.3 | 4.2 | 1.5 | 142 | 0.56 | 2.3 | <0.5 | 0.5 | 63 | <0.1 | <0.1 | 1.6 | <2 | 1.38 |
| 1206041 | Rock | 0.87 | 4 | 0.2 | 2.9 | 7.6 | 11 | <0.1 | 3.4 | 1.9 | 678 | 0.97 | 2.3 | 0.7 | 4.3 | 114 | <0.1 | 0.2 | <0.1 | <2 | 2.32 |
| 1206042 | Rock | 0.49 | <2 | 0.2 | 3.9 | 27.6 | 11 | 0.3 | 5.3 | 3.0 | 443 | 0.93 | 0.8 | 0.9 | 1.4 | <1 | <0.1 | <0.1 | 1.1 | <2 | 0.02 |
| 1206043 | Rock | 0.89 | <2 | 0.2 | 6.4 | 2.9 | 13 | <0.1 | 6.6 | 2.7 | 247 | 1.14 | 1.7 | <0.5 | 2.7 | 3 | <0.1 | 0.2 | <0.1 | 5 | 0.04 |
| 1206044 | Rock | 0.51 | <2 | 0.6 | 4.9 | 8.5 | 4 | <0.1 | 2.4 | 0.7 | 289 | 0.52 | 5.3 | <0.5 | 0.5 | 38 | <0.1 | 0.3 | 0.2 | 15 | 0.51 |
| 1206045 | Rock | 0.85 | <2 | 0.1 | 3.3 | 9.5 | 10 | <0.1 | 4.0 | 1.6 | 196 | 0.60 | 0.9 | 0.7 | 0.6 | 65 | <0.1 | <0.1 | <0.1 | <2 | 1.59 |
| 1206046 | Rock | 0.65 | <2 | 0.3 | 13.2 | 13.2 | 8 | 0.1 | 4.3 | 1.8 | 186 | 0.73 | 3.1 | <0.5 | 0.4 | 7 | <0.1 | 1.0 | 0.2 | <2 | 0.24 |
| 1206047 | Rock | 0.83 | <2 | 0.1 | 2.0 | 1.3 | 5 | <0.1 | 2.1 | 0.8 | 303 | 0.79 | 1.0 | 0.7 | 0.9 | 11 | <0.1 | <0.1 | <0.1 | <2 | 0.47 |
| 1206048 | Rock | 1.01 | <2 | 0.2 | 1.8 | 7.0 | 8 | <0.1 | 1.7 | 1.2 | 163 | 0.55 | 4.9 | <0.5 | 1.6 | 82 | <0.1 | 0.2 | <0.1 | <2 | 1.40 |
| 1206049 | Rock | 1.03 | <2 | 0.2 | 13.8 | 445.1 | 58 | 1.6 | 17.7 | 9.0 | 264 | 2.84 | 3.0 | <0.5 | 1.8 | 15 | <0.1 | <0.1 | 11.3 | 11 | 0.15 |
| 1206050 | Rock | 0.80 | <2 | 0.1 | 3.3 | 13.6 | 6 | <0.1 | 2.7 | 1.5 | 343 | 1.13 | 0.7 | <0.5 | 3.2 | 17 | <0.1 | <0.1 | 0.2 | <2 | 0.92 |
| 1206051 | Rock | 0.53 | <2 | 0.3 | 13.5 | 12.1 | 24 | 0.1 | 12.6 | 6.1 | 216 | 0.97 | 3.5 | 0.7 | 1.1 | 6 | <0.1 | 0.5 | 0.2 | <2 | 0.18 |
| 1206052 | Rock | 0.54 | <2 | 0.3 | 12.2 | 10.4 | 33 | <0.1 | 10.0 | 6.4 | 601 | 2.15 | 2.0 | <0.5 | 5.4 | 3 | <0.1 | <0.1 | <0.1 | 5 | 0.01 |
| 1206053 | Rock | 0.78 | <2 | 0.4 | 6.7 | 3.5 | 16 | <0.1 | 6.7 | 3.2 | 127 | 1.08 | 1.8 | 0.5 | 2.0 | 6 | <0.1 | 0.1 | <0.1 | 4 | 0.01 |
| 1206054 | Rock | 1.01 | <2 | 0.1 | 2.0 | 2.8 | 3 | <0.1 | 2.4 | 0.7 | 286 | 0.45 | <0.5 | <0.5 | 0.2 | 22 | <0.1 | <0.1 | <0.1 | <2 | 0.44 |
| 1206055 | Rock | 0.55 | <2 | 0.2 | 4.7 | 3.1 | 29 | <0.1 | 7.5 | 2.4 | 155 | 1.61 | <0.5 | <0.5 | 0.7 | 2 | <0.1 | <0.1 | <0.1 | 4 | 0.01 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| | | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1205861 | Rock | | 0.008 | 6 | 4 | <0.01 | 46 | 0.002 | <20 | 0.21 | <0.001 | 0.18 | <0.1 | 0.05 | 0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205862 | Rock | | 0.012 | 12 | 6 | 0.01 | 35 | 0.002 | <20 | 0.27 | <0.001 | 0.14 | <0.1 | 0.18 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205863 | Rock | | 0.009 | 10 | 3 | 0.01 | 55 | 0.001 | <20 | 0.23 | 0.002 | 0.16 | <0.1 | 0.06 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205864 | Rock | | 0.011 | 9 | 4 | 0.01 | 76 | 0.002 | <20 | 0.19 | <0.001 | 0.13 | <0.1 | 0.32 | 0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206030 | Rock | | 0.003 | <1 | 2 | <0.01 | 4 | <0.001 | <20 | 0.03 | 0.003 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1206031 | Rock | | 0.011 | 9 | 4 | 0.02 | 14 | <0.001 | <20 | 0.14 | 0.025 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1206032 | Rock | | 0.016 | 7 | 7 | 0.23 | 10 | 0.002 | <20 | 0.45 | 0.028 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1206033 | Rock | | 0.014 | 9 | 7 | 0.25 | 16 | 0.001 | <20 | 0.50 | 0.022 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 2 | <1 | <0.2 |
| 1206034 | Rock | | 0.033 | 6 | 21 | 0.20 | 7 | 0.001 | <20 | 0.40 | 0.033 | <0.01 | <0.1 | <0.01 | <0.1 | 0.07 | 1.1 | <0.5 | 1 | 4 | <0.2 |
| 1206035 | Rock | | 0.030 | 35 | 26 | 0.94 | 36 | 0.003 | <20 | 2.09 | 0.014 | 0.17 | <0.1 | <0.01 | <0.1 | <0.05 | 2.1 | <0.5 | 6 | <1 | <0.2 |
| 1206036 | Rock | | 0.003 | 4 | 12 | <0.01 | 27 | <0.001 | <20 | 0.10 | 0.002 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1206037 | Rock | | 0.020 | 6 | 10 | 0.07 | 38 | 0.001 | <20 | 0.24 | 0.012 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | <1 | <1 | <0.2 |
| 1206038 | Rock | | 0.009 | 8 | 14 | 0.01 | 41 | <0.001 | <20 | 0.13 | 0.019 | 0.12 | <0.1 | 0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206039 | Rock | | <0.001 | <1 | 14 | 0.01 | 22 | <0.001 | <20 | 0.05 | 0.001 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206040 | Rock | | 0.004 | 2 | 18 | 0.09 | 15 | <0.001 | <20 | 0.04 | 0.003 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | 0.3 |
| 1206041 | Rock | | 0.009 | 6 | 16 | 0.08 | 38 | <0.001 | <20 | 0.21 | 0.019 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | <1 | <1 | <0.2 |
| 1206042 | Rock | | 0.006 | 2 | 16 | 0.05 | 17 | <0.001 | <20 | 0.16 | 0.004 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | 0.3 |
| 1206043 | Rock | | 0.007 | 7 | 14 | 0.13 | 26 | 0.003 | <20 | 0.34 | 0.012 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| 1206044 | Rock | | 0.200 | 2 | 25 | 0.12 | 56 | 0.011 | <20 | 0.31 | 0.026 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | 0.6 | <1 | <1 | <0.2 |
| 1206045 | Rock | | 0.012 | 1 | 19 | 0.03 | 13 | <0.001 | <20 | 0.07 | 0.003 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1206046 | Rock | | 0.017 | <1 | 17 | 0.03 | 14 | <0.001 | <20 | 0.03 | 0.004 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206047 | Rock | | 0.003 | <1 | 18 | 0.04 | 17 | <0.001 | <20 | 0.04 | <0.001 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206048 | Rock | | 0.006 | 3 | 15 | 0.03 | 29 | <0.001 | <20 | 0.11 | 0.002 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206049 | Rock | | 0.073 | 5 | 16 | 0.51 | 20 | 0.003 | <20 | 1.33 | 0.006 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 1.5 | 0.5 | 4 | <1 | 1.2 |
| 1206050 | Rock | | 0.010 | 5 | 12 | 0.04 | 10 | <0.001 | <20 | 0.13 | <0.001 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206051 | Rock | | 0.003 | 2 | 15 | 0.02 | 7 | <0.001 | <20 | 0.12 | <0.001 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1206052 | Rock | | 0.011 | 10 | 11 | 0.02 | 44 | <0.001 | <20 | 0.25 | 0.006 | 0.06 | <0.1 | 0.03 | <0.1 | <0.05 | 1.2 | <0.5 | <1 | <1 | <0.2 |
| 1206053 | Rock | | 0.010 | 8 | 16 | 0.02 | 28 | 0.002 | <20 | 0.15 | 0.002 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206054 | Rock | | 0.017 | <1 | 18 | <0.01 | 28 | <0.001 | <20 | 0.04 | <0.001 | <0.01 | <0.1 | 0.03 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206055 | Rock | | 0.008 | 1 | 19 | 0.01 | 10 | <0.001 | <20 | 0.11 | <0.001 | <0.01 | <0.1 | 0.02 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1206056 | Rock | 0.60 | <2 | 0.1 | 2.9 | 2.5 | 6 | <0.1 | 4.8 | 3.5 | 318 | 0.63 | <0.5 | <0.5 | 1.7 | 1 | <0.1 | <0.1 | <0.1 | <2 | 0.01 |
| 1206057 | Rock | 0.78 | <2 | 0.2 | 2.0 | 4.4 | 19 | <0.1 | 5.0 | 1.6 | 322 | 1.08 | <0.5 | 1.7 | 0.4 | <1 | <0.1 | <0.1 | <0.1 | 2 | 0.02 |
| 1206058 | Rock | 0.62 | <2 | 0.2 | 7.7 | 9.0 | 8 | <0.1 | 5.0 | 2.3 | 201 | 0.76 | 0.9 | 0.9 | 5.8 | 3 | <0.1 | <0.1 | <0.1 | 6 | 0.02 |
| 1206059 | Rock | 0.77 | <2 | <0.1 | 1.0 | 0.6 | <1 | <0.1 | 0.6 | 0.2 | 36 | 0.24 | <0.5 | <0.5 | 0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1206060 | Rock | 0.74 | <2 | <0.1 | 1.6 | 3.7 | 4 | <0.1 | 1.9 | 0.6 | 63 | 0.36 | <0.5 | <0.5 | 1.1 | 1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1206613 | Rock | 1.35 | <2 | 0.4 | 5.9 | 8.3 | 11 | <0.1 | 6.6 | 2.6 | 307 | 0.86 | 2.8 | <0.5 | 4.8 | 274 | <0.1 | 0.4 | <0.1 | <2 | 3.30 |
| 1206614 | Rock | 1.57 | <2 | 0.2 | 5.6 | 4.5 | 12 | <0.1 | 4.7 | 2.0 | 302 | 0.89 | <0.5 | <0.5 | 4.8 | 3 | <0.1 | <0.1 | <0.1 | 2 | 0.19 |
| 1206615 | Rock | 1.36 | <2 | 0.2 | 4.8 | 7.8 | 16 | <0.1 | 6.8 | 3.5 | 390 | 1.17 | 1.4 | <0.5 | 6.5 | 6 | <0.1 | 0.2 | <0.1 | <2 | 0.21 |
| 1206616 | Rock | 0.34 | <2 | 0.8 | 42.4 | 9.7 | 83 | <0.1 | 267.5 | 60.1 | 1063 | 7.03 | 63.1 | <0.5 | 1.7 | 67 | 0.2 | <0.1 | <0.1 | 110 | 2.25 |
| 1206617 | Rock | 1.16 | <2 | 0.1 | 4.4 | 4.0 | 19 | <0.1 | 11.2 | 3.9 | 196 | 1.62 | <0.5 | <0.5 | 1.6 | 2 | <0.1 | <0.1 | <0.1 | 5 | 0.08 |
| 1206618 | Rock | 0.75 | <2 | 0.2 | 3.2 | 4.4 | 14 | <0.1 | 8.9 | 3.4 | 197 | 1.03 | 5.2 | <0.5 | 7.3 | 6 | <0.1 | <0.1 | <0.1 | 3 | 0.03 |
| 1206619 | Rock | 2.03 | <2 | 0.2 | 19.0 | 5.6 | 49 | <0.1 | 6.6 | 3.0 | 1652 | 1.27 | 1.9 | <0.5 | 0.5 | 11 | <0.1 | 0.7 | <0.1 | 3 | 0.37 |
| 1206620 | Rock | 1.64 | <2 | 0.2 | 8.5 | 13.1 | 21 | <0.1 | 9.5 | 4.7 | 349 | 1.30 | 2.9 | <0.5 | 7.4 | 8 | <0.1 | 0.1 | <0.1 | 4 | 0.16 |
| 1206621 | Rock | 1.58 | 2 | 0.4 | 5.0 | 9.2 | 17 | <0.1 | 6.0 | 3.6 | 239 | 1.06 | 6.6 | 2.6 | 7.4 | 55 | <0.1 | 0.5 | <0.1 | 14 | 0.62 |
| 1206622 | Rock | 0.92 | <2 | 0.1 | 3.2 | 5.4 | 12 | <0.1 | 4.7 | 1.8 | 358 | 0.81 | 1.9 | <0.5 | 7.8 | 111 | <0.1 | 0.2 | <0.1 | 7 | 0.46 |
| 1206623 | Rock | 0.92 | <2 | 0.1 | 4.6 | 189.6 | 78 | 2.8 | 2.5 | 1.2 | 380 | 0.41 | 6.8 | 0.9 | 6.9 | 316 | 6.0 | 0.5 | <0.1 | <2 | 3.34 |
| 1206624 | Rock | 1.58 | <2 | 0.4 | 5.9 | 11.0 | 17 | <0.1 | 8.8 | 1.9 | 427 | 1.56 | 4.8 | 0.6 | 5.5 | 16 | <0.1 | 0.5 | <0.1 | 4 | 0.83 |
| 1206625 | Rock | 1.00 | <2 | 0.4 | 6.2 | 7.6 | 17 | <0.1 | 6.9 | 2.3 | 295 | 1.09 | 4.2 | 1.4 | 4.7 | 8 | <0.1 | 0.8 | <0.1 | 3 | 0.07 |
| 1206626 | Rock | 1.25 | <2 | 0.2 | 2.8 | 45.4 | 6 | 0.4 | 2.8 | 0.6 | 132 | 0.33 | 1.0 | <0.5 | 3.0 | 6 | 0.1 | 0.1 | 0.5 | <2 | 0.25 |
| 1206627 | Rock | 1.06 | <2 | 0.2 | 7.6 | 51.4 | 12 | <0.1 | 3.5 | 2.1 | 144 | 0.66 | 0.6 | 1.5 | 1.6 | 60 | 0.1 | <0.1 | 0.2 | <2 | 0.73 |
| 1239898 | Rock | 0.40 | <2 | 0.1 | 6.5 | 6.1 | 20 | <0.1 | 6.0 | 3.5 | 133 | 1.39 | 1.9 | <0.5 | 11.7 | 2 | <0.1 | 1.9 | <0.1 | 9 | <0.01 |
| 1239899 | Rock | 0.40 | <2 | 0.4 | 26.4 | 6.7 | 64 | <0.1 | 25.9 | 9.5 | 248 | 2.49 | 0.9 | <0.5 | 19.1 | 7 | <0.1 | 2.4 | 0.2 | 6 | 0.04 |
| 1239900 | Rock | 0.70 | 3 | 0.4 | 8.7 | 1.9 | 32 | <0.1 | 12.0 | 5.5 | 247 | 1.97 | <0.5 | <0.5 | 10.1 | 7 | 0.1 | <0.1 | <0.1 | 8 | 0.06 |

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Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000170.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1206056 | Rock | 0.005 | 3 | 22 | 0.01 | 11 | <0.001 | <20 | 0.08 | 0.012 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206057 | Rock | 0.005 | <1 | 16 | <0.01 | 13 | <0.001 | <20 | 0.06 | <0.001 | <0.01 | <0.1 | 0.04 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1206058 | Rock | 0.011 | 9 | 10 | 0.02 | 55 | 0.003 | <20 | 0.24 | <0.001 | 0.13 | <0.1 | 0.04 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1206059 | Rock | 0.001 | <1 | 17 | <0.01 | 3 | <0.001 | <20 | 0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1206060 | Rock | 0.003 | 3 | 16 | <0.01 | 11 | <0.001 | <20 | 0.06 | <0.001 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1206613 | Rock | 0.018 | 9 | 10 | 0.06 | 74 | 0.002 | <20 | 0.17 | 0.005 | 0.09 | <0.1 | 0.01 | <0.1 | 0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1206614 | Rock | 0.004 | 9 | 16 | 0.05 | 35 | <0.001 | <20 | 0.13 | 0.033 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1206615 | Rock | 0.006 | 11 | 9 | 0.03 | 70 | <0.001 | <20 | 0.22 | 0.021 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 1.0 | <0.5 | <1 | <1 | <0.2 |
| 1206616 | Rock | 0.125 | 12 | 438 | 4.28 | 52 | 0.118 | <20 | 4.29 | 0.007 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 6.6 | <0.5 | 13 | <1 | <0.2 |
| 1206617 | Rock | 0.017 | 3 | 17 | 0.46 | 10 | 0.002 | <20 | 0.77 | <0.001 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1206618 | Rock | 0.008 | 14 | 13 | 0.12 | 53 | 0.003 | <20 | 0.35 | 0.013 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1206619 | Rock | <0.001 | <1 | 20 | 0.19 | 22 | <0.001 | <20 | 0.29 | 0.055 | <0.01 | <0.1 | 0.01 | <0.1 | 0.17 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| 1206620 | Rock | 0.015 | 16 | 11 | 0.11 | 65 | 0.006 | <20 | 0.39 | 0.015 | 0.22 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1206621 | Rock | 0.021 | 14 | 25 | 0.26 | 143 | 0.061 | <20 | 0.57 | 0.071 | 0.24 | 0.2 | 0.01 | 0.2 | 0.13 | 1.7 | 0.7 | 2 | <1 | <0.2 |
| 1206622 | Rock | 0.014 | 18 | 13 | 0.11 | 46 | 0.004 | <20 | 0.36 | 0.020 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 1 | <1 | <0.2 |
| 1206623 | Rock | 0.011 | 13 | 8 | 0.03 | 69 | 0.002 | <20 | 0.20 | 0.008 | 0.18 | <0.1 | 0.05 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1206624 | Rock | 0.019 | 9 | 19 | 0.17 | 57 | 0.002 | <20 | 0.43 | 0.028 | 0.05 | <0.1 | 0.01 | <0.1 | <0.05 | 1.4 | <0.5 | 1 | <1 | <0.2 |
| 1206625 | Rock | 0.010 | 11 | 17 | 0.08 | 34 | 0.002 | <20 | 0.28 | 0.015 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | <1 | <1 | <0.2 |
| 1206626 | Rock | 0.012 | 7 | 15 | 0.02 | 13 | <0.001 | <20 | 0.08 | 0.021 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206627 | Rock | 0.018 | 3 | 15 | <0.01 | 20 | 0.001 | <20 | 0.09 | 0.062 | 0.02 | <0.1 | 0.06 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1239898 | Rock | 0.017 | 22 | 10 | 0.02 | 48 | 0.002 | <20 | 0.29 | 0.002 | 0.18 | <0.1 | 0.03 | <0.1 | <0.05 | 1.2 | <0.5 | <1 | <1 | <0.2 |
| 1239899 | Rock | 0.030 | 37 | 10 | 0.32 | 77 | 0.004 | <20 | 0.85 | 0.005 | 0.42 | <0.1 | 0.01 | 0.1 | <0.05 | 1.2 | <0.5 | 2 | <1 | <0.2 |
| 1239900 | Rock | 0.024 | 9 | 16 | 0.51 | 47 | 0.004 | <20 | 0.76 | 0.030 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 1.4 | 0.8 | 3 | <1 | <0.2 |

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Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1205652 | Rock | 0.63 | <2 | 0.3 | 4.8 | 4.6 | 9 | <0.1 | 4.6 | 2.4 | 276 | 1.01 | 2.1 | 0.9 | 1.6 | 12 | <0.1 | 0.3 | <0.1 | <2 | 0.98 |
| REP 1205652 | QC | | | 0.3 | 4.8 | 4.7 | 9 | <0.1 | 4.7 | 2.4 | 280 | 1.00 | 2.3 | 0.9 | 1.6 | 12 | <0.1 | 0.3 | <0.1 | <2 | 0.98 |
| 1205665 | Rock | 0.88 | <2 | 0.2 | 24.6 | 10.0 | 17 | <0.1 | 7.6 | 3.5 | 213 | 1.37 | 3.8 | 0.8 | 7.1 | 2 | <0.1 | <0.1 | <0.1 | 4 | 0.05 |
| REP 1205665 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| 1205814 | Rock | 1.53 | <2 | 0.2 | 11.3 | 89.1 | 31 | 0.5 | 12.7 | 5.8 | 905 | 3.16 | 2.5 | <0.5 | 2.1 | 176 | 0.1 | 0.6 | 0.7 | <2 | 3.57 |
| REP 1205814 | QC | | | 0.2 | 11.3 | 87.4 | 30 | 0.6 | 12.5 | 5.6 | 907 | 3.20 | 2.4 | 0.9 | 2.0 | 178 | 0.2 | 0.6 | 0.7 | <2 | 3.61 |
| 1205855 | Rock | 1.17 | <2 | 0.3 | 10.9 | 7.4 | 14 | <0.1 | 10.0 | 4.8 | 319 | 1.27 | 4.9 | <0.5 | 8.7 | 4 | <0.1 | 0.7 | 0.1 | 2 | 0.03 |
| REP 1205855 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| 1206053 | Rock | 0.78 | <2 | 0.4 | 6.7 | 3.5 | 16 | <0.1 | 6.7 | 3.2 | 127 | 1.08 | 1.8 | 0.5 | 2.0 | 6 | <0.1 | 0.1 | <0.1 | 4 | 0.01 |
| REP 1206053 | QC | | | 0.4 | 6.3 | 3.4 | 15 | <0.1 | 6.6 | 3.3 | 137 | 1.12 | 2.0 | <0.5 | 2.0 | 6 | <0.1 | 0.1 | <0.1 | 4 | 0.01 |
| 1206054 | Rock | 1.01 | <2 | 0.1 | 2.0 | 2.8 | 3 | <0.1 | 2.4 | 0.7 | 286 | 0.45 | <0.5 | <0.5 | 0.2 | 22 | <0.1 | <0.1 | <0.1 | <2 | 0.44 |
| REP 1206054 | QC | | <2 | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1205794 | Rock | 1.02 | <2 | 0.2 | 11.4 | 4.3 | 11 | <0.1 | 8.2 | 1.4 | 43 | 0.79 | 1.3 | 1.4 | 2.5 | 9 | <0.1 | 0.1 | <0.1 | 3 | <0.01 |
| DUP 1205794 | QC | | <2 | 0.3 | 11.9 | 4.4 | 11 | <0.1 | 8.1 | 1.5 | 64 | 0.98 | 1.5 | 1.1 | 2.5 | 9 | <0.1 | 0.2 | <0.1 | 2 | <0.01 |
| 1205858 | Rock | 2.11 | <2 | 0.4 | 4.9 | 10.1 | 24 | <0.1 | 9.6 | 3.6 | 743 | 1.33 | 25.8 | 1.0 | 8.3 | 14 | <0.1 | 1.0 | <0.1 | 3 | 0.79 |
| DUP 1205858 | QC | | <2 | 0.5 | 5.2 | 10.3 | 22 | <0.1 | 9.8 | 3.8 | 853 | 1.47 | 30.4 | <0.5 | 8.3 | 15 | 0.1 | 1.0 | <0.1 | 3 | 0.84 |
| 1206058 | Rock | 0.62 | <2 | 0.2 | 7.7 | 9.0 | 8 | <0.1 | 5.0 | 2.3 | 201 | 0.76 | 0.9 | 0.9 | 5.8 | 3 | <0.1 | <0.1 | <0.1 | 6 | 0.02 |
| DUP 1206058 | QC | | <2 | 0.2 | 7.0 | 8.7 | 9 | <0.1 | 4.6 | 2.3 | 209 | 0.76 | 0.7 | 1.5 | 5.6 | 3 | <0.1 | <0.1 | <0.1 | 6 | 0.02 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | | 12.7 | 106.6 | 125.0 | 316 | 1.7 | 39.7 | 7.5 | 581 | 2.31 | 25.8 | 102.7 | 6.0 | 71 | 2.6 | 4.1 | 6.4 | 38 | 0.71 |
| STD DS9 | Standard | | | 12.2 | 112.5 | 122.2 | 306 | 1.7 | 41.7 | 7.7 | 573 | 2.33 | 27.1 | 125.4 | 6.3 | 72 | 2.7 | 4.5 | 7.5 | 40 | 0.70 |
| STD DS9 | Standard | | | 13.0 | 111.1 | 118.4 | 301 | 1.8 | 40.0 | 7.9 | 577 | 2.34 | 26.5 | 91.5 | 6.2 | 71 | 2.4 | 4.3 | 7.1 | 37 | 0.70 |
| STD DS9 | Standard | | | 14.1 | 109.9 | 131.2 | 308 | 1.9 | 41.4 | 7.8 | 589 | 2.39 | 27.2 | 128.3 | 6.3 | 72 | 2.4 | 5.3 | 6.6 | 39 | 0.72 |
| STD OREAS45CA | Standard | | | 0.8 | 519.0 | 21.1 | 64 | 0.3 | 251.9 | 95.5 | 997 | 16.05 | 3.6 | 38.8 | 7.2 | 15 | <0.1 | 0.1 | 0.1 | 222 | 0.45 |
| STD OREAS45CA | Standard | | | 0.8 | 470.9 | 21.1 | 61 | 0.3 | 228.9 | 90.3 | 918 | 15.47 | 3.2 | 36.3 | 7.3 | 16 | 0.2 | 0.1 | 0.2 | 203 | 0.42 |
| STD OREAS45CA | Standard | | | 0.9 | 513.6 | 22.7 | 63 | 0.3 | 256.1 | 99.9 | 1010 | 16.59 | 3.8 | 38.2 | 7.5 | 18 | 0.1 | 0.1 | 0.2 | 220 | 0.45 |
| STD OREAS45CA | Standard | | | 1.0 | 475.6 | 19.2 | 54 | 0.3 | 228.1 | 88.3 | 893 | 15.24 | 3.2 | 37.1 | 6.6 | 12 | 0.1 | 0.1 | 0.2 | 196 | 0.44 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1205652 | Rock | 0.015 | 2 | 14 | 0.06 | 14 | <0.001 | <20 | 0.06 | 0.003 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| REP 1205652 | QC | 0.017 | 2 | 14 | 0.06 | 13 | <0.001 | <20 | 0.07 | 0.004 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1205665 | Rock | 0.014 | 12 | 15 | 0.07 | 25 | <0.001 | <20 | 0.26 | 0.027 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| REP 1205665 | QC | | | | | | | | | | | | | | | | | | | |
| 1205814 | Rock | 0.052 | 5 | 3 | 0.47 | 17 | <0.001 | <20 | 0.08 | 0.047 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 2.9 | <0.5 | <1 | <1 | <0.2 |
| REP 1205814 | QC | 0.052 | 5 | 3 | 0.47 | 17 | <0.001 | <20 | 0.08 | 0.047 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 2.9 | <0.5 | <1 | <1 | <0.2 |
| 1205855 | Rock | 0.012 | 18 | 4 | 0.03 | 74 | 0.001 | <20 | 0.30 | 0.003 | 0.16 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| REP 1205855 | QC | | | | | | | | | | | | | | | | | | | |
| 1206053 | Rock | 0.010 | 8 | 16 | 0.02 | 28 | 0.002 | <20 | 0.15 | 0.002 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| REP 1206053 | QC | 0.011 | 7 | 17 | 0.02 | 27 | 0.002 | <20 | 0.15 | 0.002 | 0.04 | <0.1 | 0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1206054 | Rock | 0.017 | <1 | 18 | <0.01 | 28 | <0.001 | <20 | 0.04 | <0.001 | <0.01 | <0.1 | 0.03 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| REP 1206054 | QC | | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1205794 | Rock | 0.016 | 6 | 11 | <0.01 | 33 | <0.001 | <20 | 0.15 | 0.001 | 0.10 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| DUP 1205794 | QC | 0.015 | 5 | 12 | <0.01 | 34 | <0.001 | <20 | 0.17 | 0.001 | 0.11 | <0.1 | 0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1205858 | Rock | 0.012 | 13 | 6 | 0.15 | 50 | <0.001 | <20 | 0.35 | 0.022 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| DUP 1205858 | QC | 0.012 | 13 | 7 | 0.14 | 54 | 0.001 | <20 | 0.33 | 0.022 | 0.06 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1206058 | Rock | 0.011 | 9 | 10 | 0.02 | 55 | 0.003 | <20 | 0.24 | <0.001 | 0.13 | <0.1 | 0.04 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| DUP 1206058 | QC | 0.011 | 9 | 10 | 0.02 | 48 | 0.002 | <20 | 0.20 | <0.001 | 0.12 | <0.1 | 0.03 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 0.079 | 12 | 122 | 0.62 | 310 | 0.104 | <20 | 0.96 | 0.079 | 0.40 | 2.5 | 0.20 | 5.6 | 0.16 | 2.2 | 4.9 | 5 | 7 | 5.0 |
| STD DS9 | Standard | 0.083 | 11 | 121 | 0.61 | 324 | 0.111 | <20 | 0.92 | 0.077 | 0.40 | 2.7 | 0.19 | 5.4 | 0.18 | 2.2 | 5.0 | 4 | 7 | 5.0 |
| STD DS9 | Standard | 0.085 | 11 | 116 | 0.62 | 319 | 0.115 | <20 | 0.96 | 0.078 | 0.41 | 2.5 | 0.20 | 5.2 | 0.16 | 2.4 | 5.0 | 5 | 7 | 5.2 |
| STD DS9 | Standard | 0.085 | 12 | 120 | 0.62 | 331 | 0.112 | <20 | 0.94 | 0.082 | 0.41 | 2.7 | 0.22 | 5.5 | 0.17 | 2.5 | 6.3 | 5 | 6 | 5.7 |
| STD OREAS45CA | Standard | 0.036 | 16 | 742 | 0.13 | 175 | 0.138 | <20 | 3.63 | 0.008 | 0.07 | <0.1 | 0.02 | <0.1 | <0.05 | 45.5 | <0.5 | 20 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.037 | 15 | 656 | 0.13 | 170 | 0.126 | <20 | 3.21 | 0.009 | 0.07 | <0.1 | 0.03 | <0.1 | <0.05 | 41.9 | <0.5 | 18 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.042 | 17 | 703 | 0.14 | 178 | 0.147 | <20 | 3.67 | 0.009 | 0.07 | <0.1 | 0.03 | <0.1 | <0.05 | 45.3 | <0.5 | 19 | 2 | <0.2 |
| STD OREAS45CA | Standard | 0.038 | 14 | 662 | 0.12 | 151 | 0.123 | <20 | 3.22 | 0.007 | 0.06 | <0.1 | 0.02 | <0.1 | <0.05 | 42.9 | <0.5 | 18 | 2 | <0.2 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | | WGHT Wgt kg 0.01 | 3B Au ppb 2 | 1DX Mo ppm 0.1 | 1DX Cu ppm 0.1 | 1DX Pb ppm 0.1 | 1DX Zn ppm 1 | 1DX Ag ppm 0.1 | 1DX Ni ppm 0.1 | 1DX Co ppm 0.1 | 1DX Mn ppm 1 | 1DX Fe % 0.01 | 1DX As ppm 0.5 | 1DX Au ppb 0.5 | 1DX Th ppm 0.1 | 1DX Sr ppm 1 | 1DX Cd ppm 0.1 | 1DX Sb ppm 0.1 | 1DX Bi ppm 0.1 | 1DX V ppm 2 | 1DX Ca % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OXC88 | Standard | | 193 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 208 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 207 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 209 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 206 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 959 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 943 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 937 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 962 | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | 203 | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | 932 | | | | | | | | | | | | | | | | | | |
| STD OREAS45CA Expected | | | | 1 | 494 | 20 | 60 | 0.275 | 240 | 92 | 943 | 15.69 | 3.8 | 43 | 7 | 15 | 0.1 | 0.13 | 0.19 | 215 | 0.4265 |
| STD DS9 Expected | | | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | 0.02 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | | <2 | 0.1 | 2.8 | 3.8 | 54 | <0.1 | 2.7 | 4.4 | 586 | 2.01 | 3.6 | 3.8 | 6.0 | 73 | <0.1 | 0.4 | <0.1 | 37 | 0.56 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | | 1DX P % 0.001 | 1DX La ppm 1 | 1DX Cr ppm 1 | 1DX Mg % 0.01 | 1DX Ba ppm 1 | 1DX Ti % 0.001 | 1DX B ppm 20 | 1DX Al % 0.01 | 1DX Na % 0.001 | 1DX K % 0.01 | 1DX W ppm 0.1 | 1DX Hg ppm 0.01 | 1DX Tl ppm 0.1 | 1DX S % 0.05 | 1DX Sc ppm 0.1 | 1DX Se ppm 0.5 | 1DX Ga ppm 1 | 1DX Sn ppm 1 | 1DX Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | | | |
| STD OREAS45CA Expected | | 0.0385 | 15.9 | 709 | 0.1358 | 164 | 0.128 | | 3.592 | 0.0075 | 0.0717 | | 0.03 | 0.07 | 0.021 | 39.7 | 0.5 | 18.4 | | |
| STD DS9 Expected | | 0.0819 | 13.3 | 121 | 0.6165 | 330 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 5.3 | 0.1615 | 2.5 | 5.2 | 4.59 | | 5.02 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | 0.084 | 13 | 9 | 0.52 | 179 | 0.146 | <20 | 0.99 | 0.095 | 0.50 | <0.1 | <0.01 | 0.3 | <0.05 | 2.4 | <0.5 | 5 | <1 | <0.2 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| G1-WHI | Prep Blank | | <2 | 0.2 | 2.6 | 10.2 | 48 | 0.2 | 2.6 | 4.1 | 567 | 1.95 | 1.7 | 2.1 | 5.9 | 69 | <0.1 | 1.1 | <0.1 | 36 | 0.49 |

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Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000170.1

| | | 1DX P % 0.001 | 1DX La ppm 1 | 1DX Cr ppm 1 | 1DX Mg % 0.01 | 1DX Ba ppm 1 | 1DX Ti % 0.001 | 1DX B ppm 20 | 1DX Al % 0.01 | 1DX Na % 0.001 | 1DX K % 0.01 | 1DX W ppm 0.1 | 1DX Hg ppm 0.01 | 1DX Tl ppm 0.1 | 1DX S % 0.05 | 1DX Sc ppm 0.1 | 1DX Se ppm 0.5 | 1DX Ga ppm 1 | 1DX Sn ppm 1 | 1DX Te ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1-WHI | Prep Blank | 0.079 | 13 | 8 | 0.51 | 172 | 0.139 | <20 | 0.97 | 0.092 | 0.49 | 0.3 | <0.01 | 0.3 | <0.05 | 2.3 | <0.5 | 5 | <1 | <0.2 |

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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: June 29, 2012
Report Date: July 09, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS WHI12000190.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Rx3
P.O. Number
Number of Samples: 19

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| R200-250 | 19 | Crush, split and pulverize 250 g rock to 200 mesh | | | WHI |
| 3B | 19 | Fire assay fusion Au by ICP-ES | 30 | Completed | VAN |
| 1DX | 19 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 0.5 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000190.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1237401 | Rock | 0.70 | 5 | 0.3 | 9.6 | 13.7 | 15 | 0.1 | 6.1 | 3.6 | 352 | 1.22 | 8.2 | 0.9 | 1.2 | 20 | <0.1 | 0.3 | <0.1 | <2 | 0.26 |
| 1237402 | Rock | 0.71 | 9 | 1.7 | 3.3 | 6.1 | 11 | <0.1 | 12.4 | 13.0 | 97 | 1.37 | 220.5 | 4.5 | 18.2 | 42 | <0.1 | 0.2 | <0.1 | 14 | 0.70 |
| 1237403 | Rock | 0.67 | <2 | 0.3 | 2.6 | 17.8 | 2 | <0.1 | 2.5 | 1.5 | 83 | 0.52 | 5.2 | <0.5 | 0.3 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1237404 | Rock | 0.71 | <2 | 0.7 | 21.1 | 1.3 | 88 | <0.1 | 25.6 | 20.5 | 5167 | 2.82 | 13.6 | <0.5 | 0.2 | 9 | 0.2 | <0.1 | <0.1 | 9 | 0.28 |
| 1237405 | Rock | 0.53 | <2 | 0.2 | 2.3 | 1.2 | <1 | <0.1 | 1.4 | 0.5 | 52 | 0.44 | 2.6 | 0.6 | 0.4 | 2 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| 1237406 | Rock | 0.79 | <2 | 1.0 | 49.2 | 6.7 | 61 | 0.2 | 38.1 | 14.5 | 2024 | 2.16 | 4.5 | 1.9 | 3.2 | 9 | <0.1 | <0.1 | 0.3 | 14 | 0.10 |
| 1237407 | Rock | 1.02 | <2 | 0.4 | 159.2 | 0.7 | 59 | 0.2 | 55.8 | 28.7 | 707 | 4.43 | 8.7 | 1.5 | 0.2 | 22 | <0.1 | 0.5 | <0.1 | 74 | 0.80 |
| 1237408 | Rock | 0.52 | <2 | 0.4 | 5.5 | 2.3 | 6 | <0.1 | 4.2 | 1.5 | 314 | 0.68 | 4.2 | <0.5 | 2.1 | 6 | <0.1 | 0.3 | <0.1 | <2 | 0.06 |
| 1237409 | Rock | 0.50 | <2 | 0.8 | 6.5 | 7.2 | 5 | 0.1 | 3.9 | 1.6 | 223 | 0.78 | 5.4 | <0.5 | 0.8 | 12 | <0.1 | 1.1 | <0.1 | 3 | 0.37 |
| 1237410 | Rock | 3.18 | <2 | 0.5 | 17.2 | 4.9 | 11 | <0.1 | 9.6 | 3.4 | 246 | 1.78 | 30.2 | <0.5 | 5.6 | 9 | <0.1 | 0.3 | 0.3 | 3 | 0.21 |
| 1237411 | Rock | 2.53 | <2 | 0.4 | 1.9 | 3.2 | <1 | <0.1 | 1.6 | 0.4 | 153 | 0.48 | 1.6 | <0.5 | <0.1 | <1 | <0.1 | 0.2 | <0.1 | <2 | 0.03 |
| 1237566 | Rock | 1.48 | <2 | 0.5 | 2.6 | 2.4 | 7 | <0.1 | 5.6 | 2.5 | 117 | 0.99 | 11.5 | <0.5 | 5.6 | 4 | <0.1 | <0.1 | <0.1 | 2 | 0.04 |
| 1237567 | Rock | 1.71 | <2 | 0.3 | 9.5 | 7.7 | 35 | <0.1 | 23.8 | 13.2 | 401 | 1.72 | 0.9 | <0.5 | 6.6 | 5 | <0.1 | 0.9 | <0.1 | 6 | 0.06 |
| 1237568 | Rock | 1.62 | <2 | 0.3 | 16.4 | 10.4 | 38 | <0.1 | 28.7 | 10.7 | 159 | 2.07 | 0.9 | <0.5 | 7.7 | 6 | <0.1 | <0.1 | <0.1 | 3 | 0.02 |
| 1237569 | Rock | 2.08 | <2 | 0.3 | 8.9 | 8.1 | 23 | <0.1 | 17.0 | 7.6 | 241 | 1.27 | 0.6 | <0.5 | 5.8 | 2 | <0.1 | <0.1 | <0.1 | 4 | 0.01 |
| 1237570 | Rock | 1.13 | <2 | 0.2 | 18.3 | 14.5 | 30 | <0.1 | 31.4 | 9.8 | 92 | 1.93 | 2.1 | <0.5 | 5.0 | 3 | <0.1 | 0.2 | <0.1 | <2 | 0.01 |
| 1237571 | Rock | 1.41 | <2 | 0.3 | 14.5 | 6.4 | 24 | <0.1 | 16.9 | 16.4 | 262 | 2.51 | 1.3 | 0.8 | 5.4 | 3 | <0.1 | <0.1 | <0.1 | 2 | <0.01 |
| 1237572 | Rock | 1.87 | <2 | 0.3 | 12.8 | 8.5 | 11 | <0.1 | 10.7 | 3.4 | 109 | 1.02 | <0.5 | 0.6 | 2.5 | 10 | <0.1 | 0.2 | <0.1 | 3 | 0.25 |
| 1237573 | Rock | 1.33 | <2 | 0.4 | 8.2 | 19.1 | 29 | <0.1 | 11.4 | 5.1 | 594 | 1.45 | 35.0 | <0.5 | 4.9 | 35 | 0.1 | 0.3 | 0.2 | 8 | 0.61 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# CERTIFICATE OF ANALYSIS WHI12000190.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1237401 | Rock | 0.035 | 2 | 14 | 0.04 | 24 | <0.001 | <20 | 0.20 | 0.003 | 0.02 | <0.1 | 0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1237402 | Rock | 0.051 | 18 | 16 | 0.51 | 200 | 0.058 | <20 | 1.06 | 0.077 | 0.14 | 0.1 | <0.01 | <0.1 | <0.05 | 1.4 | <0.5 | 5 | <1 | <0.2 |
| 1237403 | Rock | 0.002 | 1 | 20 | <0.01 | 6 | <0.001 | <20 | 0.02 | 0.002 | <0.01 | 0.1 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1237404 | Rock | 0.008 | <1 | 26 | 0.75 | 138 | 0.001 | <20 | 1.31 | 0.003 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 2.2 | <0.5 | 4 | <1 | <0.2 |
| 1237405 | Rock | 0.002 | 1 | 18 | <0.01 | 24 | <0.001 | <20 | 0.05 | 0.002 | 0.03 | <0.1 | 0.02 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1237406 | Rock | 0.022 | 11 | 19 | 0.64 | 379 | 0.010 | <20 | 1.05 | 0.011 | 0.11 | <0.1 | <0.01 | <0.1 | 0.10 | 1.5 | <0.5 | 4 | <1 | <0.2 |
| 1237407 | Rock | 0.060 | 2 | 70 | 1.99 | 36 | 0.234 | <20 | 2.72 | 0.014 | <0.01 | 0.1 | <0.01 | <0.1 | <0.05 | 3.2 | <0.5 | 4 | <1 | <0.2 |
| 1237408 | Rock | 0.024 | 3 | 15 | 0.03 | 46 | 0.002 | <20 | 0.11 | 0.032 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1237409 | Rock | 0.042 | 2 | 17 | 0.04 | 26 | 0.003 | <20 | 0.09 | 0.010 | 0.02 | <0.1 | 0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1237410 | Rock | 0.026 | 5 | 22 | 0.14 | 38 | <0.001 | <20 | 0.27 | 0.024 | 0.06 | <0.1 | <0.01 | <0.1 | 0.24 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1237411 | Rock | <0.001 | <1 | 29 | <0.01 | 6 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| 1237566 | Rock | 0.023 | 13 | 17 | 0.09 | 12 | <0.001 | <20 | 0.27 | 0.009 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.2 | <0.5 | <1 | <1 | <0.2 |
| 1237567 | Rock | 0.013 | 14 | 20 | 0.19 | 45 | 0.001 | <20 | 0.61 | 0.017 | 0.09 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1237568 | Rock | 0.016 | 19 | 14 | 0.19 | 43 | <0.001 | <20 | 0.64 | 0.023 | 0.10 | <0.1 | 0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 2 | <1 | <0.2 |
| 1237569 | Rock | 0.013 | 11 | 21 | 0.18 | 12 | <0.001 | <20 | 0.40 | 0.025 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 1 | <1 | <0.2 |
| 1237570 | Rock | 0.018 | 11 | 16 | 0.10 | 11 | <0.001 | <20 | 0.37 | 0.017 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1237571 | Rock | 0.015 | 12 | 15 | 0.16 | 14 | <0.001 | <20 | 0.44 | 0.018 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | 1 | <1 | <0.2 |
| 1237572 | Rock | 0.014 | 7 | 16 | 0.02 | 28 | <0.001 | <20 | 0.20 | 0.001 | 0.13 | <0.1 | 0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1237573 | Rock | 0.022 | 10 | 21 | 0.21 | 67 | 0.010 | <20 | 0.62 | 0.030 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |

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56th Floor - 100 King Street West
Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000190.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1237573 | Rock | 1.33 | <2 | 0.4 | 8.2 | 19.1 | 29 | <0.1 | 11.4 | 5.1 | 594 | 1.45 | 35.0 | <0.5 | 4.9 | 35 | 0.1 | 0.3 | 0.2 | 8 | 0.61 |
| REP 1237573 | QC | | | 0.6 | 8.0 | 18.9 | 31 | <0.1 | 13.0 | 5.0 | 592 | 1.44 | 36.7 | 0.7 | 5.0 | 34 | 0.1 | 0.3 | 0.2 | 7 | 0.62 |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1237572 | Rock | 1.87 | <2 | 0.3 | 12.8 | 8.5 | 11 | <0.1 | 10.7 | 3.4 | 109 | 1.02 | <0.5 | 0.6 | 2.5 | 10 | <0.1 | 0.2 | <0.1 | 3 | 0.25 |
| DUP 1237572 | QC | | <2 | 0.3 | 12.6 | 8.6 | 11 | <0.1 | 10.5 | 3.3 | 110 | 1.00 | <0.5 | <0.5 | 2.5 | 10 | <0.1 | 0.2 | <0.1 | 3 | 0.24 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | | 11.5 | 111.7 | 118.6 | 305 | 1.8 | 42.5 | 8.3 | 595 | 2.42 | 25.0 | 155.7 | 5.8 | 65 | 2.4 | 4.1 | 5.7 | 40 | 0.72 |
| STD OREAS45CA | Standard | | | 0.8 | 493.4 | 18.0 | 52 | 0.3 | 234.6 | 91.5 | 886 | 15.07 | 2.8 | 36.8 | 6.4 | 13 | <0.1 | <0.1 | 0.1 | 201 | 0.40 |
| STD OXC88 | Standard | | 204 | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | 203 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 999 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 944 | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | 203 | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | 932 | | | | | | | | | | | | | | | | | | |
| STD DS9 Expected | | | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 |
| STD OREAS45CA Expected | | | | 1 | 494 | 20 | 60 | 0.275 | 240 | 92 | 943 | 15.69 | 3.8 | 43 | 7 | 15 | 0.1 | 0.13 | 0.19 | 215 | 0.4265 |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | 2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | | 11 | 0.2 | 5.3 | 3.2 | 46 | <0.1 | 2.2 | 4.3 | 604 | 2.06 | <0.5 | 1.1 | 6.1 | 72 | <0.1 | <0.1 | <0.1 | 39 | 0.54 |
| G1-WHI | Prep Blank | | 3 | 0.1 | 3.3 | 2.9 | 43 | <0.1 | 2.6 | 4.2 | 581 | 2.03 | <0.5 | 1.0 | 5.2 | 64 | <0.1 | <0.1 | <0.1 | 39 | 0.56 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 09, 2012



# QUALITY CONTROL REPORT WHI12000190.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1237573 | Rock | 0.022 | 10 | 21 | 0.21 | 67 | 0.010 | <20 | 0.62 | 0.030 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |
| REP 1237573 | QC | 0.022 | 10 | 22 | 0.21 | 69 | 0.010 | <20 | 0.62 | 0.031 | 0.11 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1237572 | Rock | 0.014 | 7 | 16 | 0.02 | 28 | <0.001 | <20 | 0.20 | 0.001 | 0.13 | <0.1 | 0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| DUP 1237572 | QC | 0.015 | 7 | 15 | 0.02 | 30 | <0.001 | <20 | 0.22 | 0.001 | 0.14 | <0.1 | 0.02 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 0.084 | 12 | 127 | 0.63 | 311 | 0.113 | <20 | 0.96 | 0.082 | 0.40 | 2.7 | 0.22 | 5.6 | 0.17 | 2.2 | 5.3 | 5 | 6 | 5.3 |
| STD OREAS45CA | Standard | 0.036 | 14 | 713 | 0.14 | 153 | 0.129 | <20 | 3.43 | 0.012 | 0.07 | <0.1 | 0.03 | <0.1 | <0.05 | 40.9 | <0.5 | 18 | 1 | <0.2 |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXC88 Expected | | | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | | | |
| STD DS9 Expected | | 0.0819 | 13.3 | 121 | 0.6165 | 330 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 5.3 | 0.1615 | 2.5 | 5.2 | 4.59 | | 5.02 |
| STD OREAS45CA Expected | | 0.0385 | 15.9 | 709 | 0.1358 | 164 | 0.128 | | 3.592 | 0.0075 | 0.0717 | | 0.03 | 0.07 | 0.021 | 39.7 | 0.5 | 18.4 | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | 0.080 | 14 | 10 | 0.51 | 179 | 0.141 | <20 | 1.01 | 0.118 | 0.51 | <0.1 | <0.01 | 0.4 | <0.05 | 2.3 | <0.5 | 5 | <1 | <0.2 |
| G1-WHI | Prep Blank | 0.081 | 13 | 10 | 0.53 | 171 | 0.135 | <20 | 0.96 | 0.099 | 0.50 | <0.1 | <0.01 | 0.3 | <0.05 | 2.4 | <0.5 | 5 | <1 | <0.2 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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**Client:** **Goldspike Exploration Inc.**
56th Floor - 100 King Street West
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Submitted By: Bruce Durham
Receiving Lab: Canada-Whitehorse
Received: July 06, 2012
Report Date: July 17, 2012
Page: 1 of 2

# CERTIFICATE OF ANALYSIS WHI12000239.1

## CLIENT JOB INFORMATION

Project: MQ
Shipment ID: MQ Rx4
P.O. Number
Number of Samples: 29

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
PICKUP-RJT Client to Pickup Rejects

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| R200-250 | 29 | Crush, split and pulverize 250 g rock to 200 mesh | | | WHI |
| 3B | 29 | Fire assay fusion Au by ICP-ES | 30 | Completed | VAN |
| 1DX | 29 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 0.5 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Goldspike Exploration Inc.
56th Floor - 100 King Street West
Toronto ON M5X 1C9
Canada

CC: Daniel Ferraro

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: MQ
Report Date: July 17, 2012



# CERTIFICATE OF ANALYSIS WHI12000239.1

| Method | | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| 1237412 | Rock | 0.67 | 19 | 0.2 | 5.3 | 5.2 | 8 | <0.1 | 10.0 | 4.5 | 429 | 0.83 | <0.5 | 2.2 | 4.3 | 3 | <0.1 | <0.1 | <0.1 | <2 | 0.14 |
| 1237413 | Rock | 0.74 | 3 | <0.1 | 3.7 | 15.6 | 19 | <0.1 | 10.8 | 5.4 | 271 | 1.05 | 1.2 | 3.9 | 6.7 | 15 | <0.1 | <0.1 | <0.1 | 3 | 0.18 |
| 1237414 | Rock | 1.30 | <2 | 0.4 | 50.3 | 16.6 | 42 | <0.1 | 25.5 | 12.2 | 476 | 2.49 | 9.3 | 3.9 | 14.3 | 13 | 0.1 | 0.4 | 0.1 | 15 | 0.10 |
| 1237415 | Rock | 1.59 | 2 | 0.2 | 7.5 | 7.4 | 45 | <0.1 | 18.0 | 7.8 | 323 | 2.09 | 1.9 | 2.0 | 6.5 | 5 | <0.1 | 0.1 | <0.1 | 22 | 0.06 |
| 1237416 | Rock | 3.26 | 7 | 0.2 | 7.5 | 44.4 | 15 | 0.1 | 9.2 | 3.3 | 852 | 0.91 | 2.4 | <0.5 | 2.8 | 286 | 0.1 | <0.1 | 0.4 | <2 | 7.69 |
| 1237424 | Rock | 0.88 | 5 | 0.3 | 9.1 | 5.3 | 19 | <0.1 | 8.7 | 4.6 | 251 | 1.18 | 10.4 | 4.8 | 3.4 | 30 | <0.1 | 1.0 | <0.1 | 9 | 0.14 |
| 1237425 | Rock | 0.51 | 8 | 0.5 | 7.0 | 9.3 | 24 | <0.1 | 6.5 | 2.9 | 619 | 1.31 | 9.0 | 3.8 | 6.0 | 7 | 0.2 | 0.4 | <0.1 | 2 | 0.06 |
| 1237426 | Rock | 0.72 | <2 | <0.1 | 4.2 | 6.1 | 8 | <0.1 | 3.0 | 1.5 | 58 | 0.76 | 3.5 | 2.1 | 3.7 | 3 | <0.1 | <0.1 | <0.1 | <2 | 0.04 |
| 1237427 | Rock | 0.38 | 32 | 0.5 | 14.2 | 12.4 | 38 | <0.1 | 18.9 | 8.9 | 791 | 2.09 | 458.2 | 38.4 | 5.2 | 13 | 0.1 | 1.4 | <0.1 | 6 | 0.09 |
| 1237428 | Rock | 0.41 | 10 | 5.8 | 19.7 | 15.7 | 51 | 0.2 | 18.5 | 7.7 | 557 | 3.75 | 29.8 | 5.9 | 5.0 | 31 | 0.3 | 1.3 | 0.1 | 9 | 0.55 |
| 1205898 | Rock | 1.30 | <2 | 0.2 | 19.3 | 4.4 | 27 | <0.1 | 14.6 | 6.7 | 453 | 1.78 | 2.0 | 2.1 | 7.7 | 8 | <0.1 | 1.1 | <0.1 | 9 | 0.06 |
| 1205899 | Rock | 1.30 | <2 | 0.3 | 3.1 | 1.6 | 14 | <0.1 | 5.8 | 2.2 | 151 | 0.77 | 2.9 | 1.4 | 0.4 | 10 | <0.1 | <0.1 | <0.1 | 2 | 0.06 |
| 1205900 | Rock | 1.83 | 2 | 0.1 | 1.8 | 10.1 | 2 | <0.1 | 2.3 | 0.7 | 330 | 0.51 | 4.5 | 1.3 | 0.5 | 40 | <0.1 | 0.6 | 0.1 | <2 | 1.54 |
| 1205952 | Rock | 0.50 | 7 | 0.1 | 3.4 | 1.7 | 6 | <0.1 | 1.9 | 0.9 | 128 | 0.60 | 5.7 | 1.3 | 0.3 | 4 | <0.1 | 0.2 | <0.1 | <2 | 0.03 |
| 1205953 | Rock | 0.54 | <2 | 0.3 | 4.2 | 11.8 | 17 | <0.1 | 5.5 | 2.6 | 247 | 0.89 | 3.6 | 1.6 | 8.6 | 16 | <0.1 | 1.0 | <0.1 | <2 | 0.31 |
| 1205954 | Rock | 1.00 | <2 | 0.2 | 9.6 | 1.6 | 30 | <0.1 | 9.4 | 3.4 | 500 | 1.88 | <0.5 | 0.8 | 4.4 | 4 | <0.1 | 0.2 | <0.1 | 5 | 0.03 |
| 1205955 | Rock | 0.53 | 5 | 0.4 | 3.7 | 13.7 | 8 | <0.1 | 3.1 | 1.2 | 210 | 0.76 | 3.7 | 0.5 | 1.9 | 8 | <0.1 | 0.3 | <0.1 | 3 | 0.07 |
| 1234931 | Rock | 0.79 | <2 | 0.1 | 1.9 | 0.7 | 1 | <0.1 | 1.9 | 0.4 | 50 | 0.43 | 0.7 | 1.2 | 0.2 | 1 | <0.1 | 0.2 | <0.1 | <2 | <0.01 |
| 1237574 | Rock | 1.52 | 3 | 0.7 | 11.6 | 14.6 | 45 | <0.1 | 18.1 | 15.2 | 217 | 3.10 | 385.3 | 2.9 | 21.7 | 98 | 0.3 | 4.1 | 4.0 | 39 | 0.73 |
| 1237575 | Rock | 1.34 | <2 | 0.8 | 28.7 | 13.0 | 40 | <0.1 | 14.5 | 7.6 | 205 | 3.20 | 98.8 | <0.5 | 21.8 | 99 | 0.2 | 1.5 | 0.8 | 44 | 0.97 |
| 1237576 | Rock | 0.74 | 13 | 1.3 | 49.8 | 195.3 | 509 | 0.5 | 108.3 | 9.2 | 320 | 22.69 | 230.3 | 9.1 | 5.6 | 35 | 0.6 | 47.0 | 4.3 | <2 | 0.04 |
| 1237577 | Rock | 1.29 | <2 | 0.5 | 13.2 | 7.0 | 21 | <0.1 | 15.9 | 8.4 | 351 | 1.57 | 1.3 | 0.5 | 9.2 | 120 | <0.1 | 0.1 | <0.1 | 21 | 1.02 |
| 1237590 | Rock | 1.50 | 242 | 0.2 | 4.9 | 11.9 | 9 | <0.1 | 5.1 | 2.2 | 198 | 0.93 | 1.0 | 588.4 | 5.1 | 17 | <0.1 | <0.1 | <0.1 | <2 | 0.14 |
| 1237591 | Rock | 1.41 | 4 | 0.1 | 11.1 | 7.4 | 15 | <0.1 | 4.7 | 2.4 | 250 | 1.16 | 0.9 | 3.8 | 5.0 | 11 | <0.1 | 0.2 | <0.1 | <2 | 0.30 |
| 1237592 | Rock | 1.47 | <2 | 0.2 | 3.9 | 4.6 | 10 | <0.1 | 6.4 | 3.1 | 315 | 0.99 | 0.8 | 2.8 | 6.2 | 6 | <0.1 | 0.1 | <0.1 | <2 | 0.24 |
| 1237593 | Rock | 1.43 | 2 | 0.1 | 2.5 | 4.2 | 6 | <0.1 | 5.2 | 1.6 | 153 | 0.69 | 1.0 | 2.9 | 5.1 | 34 | <0.1 | <0.1 | <0.1 | <2 | 0.80 |
| 1237594 | Rock | 1.94 | 5 | 0.3 | 9.0 | 11.5 | 30 | <0.1 | 10.9 | 5.1 | 542 | 1.61 | 1.2 | 6.6 | 4.3 | 4 | 0.1 | <0.1 | <0.1 | 4 | 0.02 |
| 1237595 | Rock | 1.79 | <2 | 0.2 | 7.5 | 6.4 | 16 | <0.1 | 7.7 | 3.5 | 257 | 1.31 | <0.5 | 5.8 | 6.5 | 28 | <0.1 | <0.1 | <0.1 | 2 | 0.58 |
| 1237596 | Rock | 2.02 | 3 | 0.2 | 10.3 | 6.9 | 19 | <0.1 | 11.2 | 5.4 | 457 | 1.66 | 1.5 | 3.3 | 5.3 | 39 | <0.1 | 0.1 | <0.1 | <2 | 0.99 |

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Project: MQ
Report Date: July 17, 2012



# CERTIFICATE OF ANALYSIS WHI12000239.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| 1237412 | Rock | 0.009 | 7 | 11 | 0.04 | 15 | <0.001 | <20 | 0.11 | 0.027 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1237413 | Rock | 0.010 | 12 | 12 | 0.19 | 34 | <0.001 | <20 | 0.41 | 0.026 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| 1237414 | Rock | 0.032 | 36 | 40 | 0.36 | 34 | 0.002 | <20 | 0.89 | 0.063 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 3.3 | <0.5 | 4 | <1 | <0.2 |
| 1237415 | Rock | 0.023 | 17 | 27 | 0.44 | 11 | 0.002 | <20 | 0.95 | 0.061 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 3.4 | <0.5 | 4 | <1 | <0.2 |
| 1237416 | Rock | 0.014 | 4 | 8 | 0.12 | 16 | <0.001 | <20 | 0.18 | 0.008 | 0.06 | <0.1 | <0.01 | 0.2 | <0.05 | 1.6 | <0.5 | <1 | <1 | <0.2 |
| 1237424 | Rock | 0.032 | 8 | 13 | 0.16 | 41 | 0.024 | <20 | 0.38 | 0.012 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| 1237425 | Rock | 0.009 | 10 | 8 | 0.02 | 47 | 0.001 | <20 | 0.18 | 0.002 | 0.09 | <0.1 | 0.04 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1237426 | Rock | 0.007 | 9 | 11 | 0.18 | 11 | <0.001 | <20 | 0.28 | 0.014 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 0.4 | <0.5 | <1 | <1 | <0.2 |
| 1237427 | Rock | 0.017 | 11 | 10 | 0.07 | 120 | 0.003 | <20 | 0.28 | 0.004 | 0.07 | <0.1 | 0.01 | <0.1 | <0.05 | 1.7 | <0.5 | <1 | <1 | <0.2 |
| 1237428 | Rock | 0.036 | 9 | 10 | 0.28 | 172 | 0.015 | <20 | 0.48 | 0.011 | 0.10 | 0.5 | 0.01 | <0.1 | 0.11 | 1.4 | <0.5 | 2 | <1 | <0.2 |
| 1205898 | Rock | 0.017 | 13 | 18 | 0.29 | 49 | 0.011 | <20 | 0.66 | 0.027 | 0.08 | <0.1 | 0.05 | <0.1 | <0.05 | 1.4 | <0.5 | 2 | <1 | <0.2 |
| 1205899 | Rock | 0.026 | 2 | 18 | 0.07 | 10 | 0.001 | <20 | 0.14 | 0.004 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.6 | <0.5 | <1 | <1 | <0.2 |
| 1205900 | Rock | 0.006 | 1 | 12 | 0.58 | 15 | <0.001 | <20 | 0.04 | 0.003 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205952 | Rock | 0.007 | <1 | 10 | 0.09 | 10 | 0.001 | <20 | 0.12 | 0.004 | 0.03 | <0.1 | <0.01 | <0.1 | <0.05 | 0.3 | <0.5 | <1 | <1 | <0.2 |
| 1205953 | Rock | 0.012 | 18 | 8 | 0.03 | 72 | 0.002 | <20 | 0.18 | 0.019 | 0.12 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1205954 | Rock | 0.009 | 9 | 13 | 0.28 | 38 | 0.002 | <20 | 0.73 | 0.022 | 0.04 | <0.1 | <0.01 | <0.1 | <0.05 | 1.1 | <0.5 | 2 | <1 | <0.2 |
| 1205955 | Rock | 0.024 | 4 | 9 | 0.03 | 41 | 0.005 | <20 | 0.13 | 0.040 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1234931 | Rock | 0.002 | <1 | 14 | <0.01 | 4 | 0.001 | <20 | 0.04 | 0.002 | 0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 0.1 | <0.5 | <1 | <1 | <0.2 |
| 1237574 | Rock | 0.061 | 39 | 41 | 1.14 | 403 | 0.088 | <20 | 2.06 | 0.089 | 0.15 | 0.6 | <0.01 | <0.1 | 0.42 | 4.8 | <0.5 | 9 | <1 | <0.2 |
| 1237575 | Rock | 0.063 | 42 | 42 | 1.22 | 207 | 0.147 | <20 | 2.21 | 0.133 | 0.24 | 0.3 | <0.01 | 0.1 | 0.53 | 5.8 | 1.1 | 10 | <1 | <0.2 |
| 1237576 | Rock | 0.461 | 12 | 9 | 0.02 | 129 | 0.005 | <20 | 0.48 | 0.001 | 0.12 | <0.1 | 0.12 | 0.1 | <0.05 | 1.5 | 1.0 | 2 | 1 | <0.2 |
| 1237577 | Rock | 0.019 | 17 | 31 | 0.46 | 7 | 0.009 | <20 | 0.69 | 0.056 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | 3.2 | <0.5 | 4 | <1 | <0.2 |
| 1237590 | Rock | 0.010 | 9 | 13 | 0.05 | 30 | <0.001 | <20 | 0.09 | 0.024 | 0.02 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1237591 | Rock | 0.006 | 9 | 14 | 0.04 | 15 | <0.001 | <20 | 0.07 | 0.029 | 0.02 | <0.1 | 0.01 | <0.1 | 0.15 | 0.7 | <0.5 | <1 | <1 | <0.2 |
| 1237592 | Rock | 0.012 | 11 | 12 | 0.02 | 18 | <0.001 | <20 | 0.10 | 0.031 | 0.03 | <0.1 | <0.01 | <0.1 | 0.05 | 0.8 | <0.5 | <1 | <1 | <0.2 |
| 1237593 | Rock | 0.012 | 9 | 10 | 0.02 | 33 | 0.002 | <20 | 0.15 | <0.001 | 0.14 | <0.1 | <0.01 | <0.1 | <0.05 | 0.5 | <0.5 | <1 | <1 | <0.2 |
| 1237594 | Rock | 0.014 | 11 | 12 | 0.02 | 50 | 0.001 | <20 | 0.28 | 0.002 | 0.11 | <0.1 | 0.03 | <0.1 | <0.05 | 1.5 | <0.5 | <1 | <1 | <0.2 |
| 1237595 | Rock | 0.006 | 10 | 11 | 0.18 | 21 | <0.001 | <20 | 0.18 | 0.008 | 0.05 | <0.1 | 0.01 | <0.1 | 0.05 | 0.9 | <0.5 | <1 | <1 | <0.2 |
| 1237596 | Rock | 0.012 | 8 | 13 | 0.17 | 30 | <0.001 | <20 | 0.13 | 0.031 | 0.03 | <0.1 | 0.01 | <0.1 | <0.05 | 1.3 | <0.5 | <1 | <1 | <0.2 |

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Project: MQ
Report Date: July 17, 2012



# QUALITY CONTROL REPORT WHI12000239.1

| | Method | WGHT | 3B | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | kg | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.01 | 2 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1237413 | Rock | 0.74 | 3 | <0.1 | 3.7 | 15.6 | 19 | <0.1 | 10.8 | 5.4 | 271 | 1.05 | 1.2 | 3.9 | 6.7 | 15 | <0.1 | <0.1 | <0.1 | 3 | 0.18 |
| REP 1237413 | QC | | | 0.2 | 3.5 | 15.8 | 20 | <0.1 | 10.9 | 5.5 | 268 | 1.04 | 1.3 | 2.3 | 6.8 | 15 | <0.1 | <0.1 | <0.1 | 3 | 0.17 |
| 1237424 | Rock | 0.88 | 5 | 0.3 | 9.1 | 5.3 | 19 | <0.1 | 8.7 | 4.6 | 251 | 1.18 | 10.4 | 4.8 | 3.4 | 30 | <0.1 | 1.0 | <0.1 | 9 | 0.14 |
| REP 1237424 | QC | | 3 | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1237574 | Rock | 1.52 | 3 | 0.7 | 11.6 | 14.6 | 45 | <0.1 | 18.1 | 15.2 | 217 | 3.10 | 385.3 | 2.9 | 21.7 | 98 | 0.3 | 4.1 | 4.0 | 39 | 0.73 |
| DUP 1237574 | QC | | 3 | 0.7 | 12.6 | 14.3 | 47 | <0.1 | 19.5 | 16.9 | 221 | 3.32 | 428.4 | 2.3 | 23.1 | 108 | 0.3 | 4.2 | 3.5 | 41 | 0.79 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | | | 13.4 | 115.0 | 132.5 | 324 | 1.8 | 41.7 | 8.0 | 598 | 2.44 | 25.4 | 203.1 | 7.6 | 84 | 2.6 | 4.5 | 6.3 | 41 | 0.73 |
| STD OREAS45CA | Standard | | | 0.8 | 494.3 | 20.5 | 54 | 0.3 | 228.0 | 84.6 | 850 | 14.21 | 3.4 | 48.7 | 7.8 | 16 | 0.1 | 0.1 | 0.2 | 188 | 0.39 |
| STD OXC88 | Standard | | 193 | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | 888 | | | | | | | | | | | | | | | | | | |
| STD OREAS45CA Expected | | | | 1 | 494 | 20 | 60 | 0.275 | 240 | 92 | 943 | 15.69 | 3.8 | 43 | 7 | 15 | 0.1 | 0.13 | 0.19 | 215 | 0.4265 |
| STD DS9 Expected | | | | 12.84 | 108 | 126 | 317 | 1.83 | 40.3 | 7.6 | 575 | 2.33 | 25.5 | 118 | 6.38 | 69.6 | 2.4 | 4.94 | 6.32 | 40 | 0.7201 |
| STD OXC88 Expected | | | 203 | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | 932 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | 0.03 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <2 | <0.01 |
| BLK | Blank | | 5 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <2 | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | | 3 | 0.2 | 2.2 | 3.1 | 46 | <0.1 | 2.8 | 3.8 | 562 | 1.97 | <0.5 | 2.8 | 6.5 | 71 | <0.1 | <0.1 | <0.1 | 37 | 0.50 |
| G1-WHI | Prep Blank | | <2 | 0.2 | 2.1 | 3.0 | 45 | <0.1 | 3.8 | 4.3 | 598 | 2.05 | <0.5 | 2.6 | 6.6 | 77 | <0.1 | <0.1 | <0.1 | 38 | 0.50 |

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Toronto ON M5X 1C9 Canada

Project: MQ
Report Date: July 17, 2012



# QUALITY CONTROL REPORT WHI12000239.1

| | Method | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX | 1DX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Tl | S | Sc | Se | Ga | Sn | Te |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.05 | 0.1 | 0.5 | 1 | 1 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1237413 | Rock | 0.010 | 12 | 12 | 0.19 | 34 | <0.001 | <20 | 0.41 | 0.026 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.8 | <0.5 | 1 | <1 | <0.2 |
| REP 1237413 | QC | 0.010 | 12 | 12 | 0.18 | 34 | 0.001 | <20 | 0.42 | 0.024 | 0.08 | <0.1 | <0.01 | <0.1 | <0.05 | 0.7 | <0.5 | 1 | <1 | <0.2 |
| 1237424 | Rock | 0.032 | 8 | 13 | 0.16 | 41 | 0.024 | <20 | 0.38 | 0.012 | 0.05 | <0.1 | <0.01 | <0.1 | <0.05 | 0.9 | <0.5 | 1 | <1 | <0.2 |
| REP 1237424 | QC | | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | |
| 1237574 | Rock | 0.061 | 39 | 41 | 1.14 | 403 | 0.088 | <20 | 2.06 | 0.089 | 0.15 | 0.6 | <0.01 | <0.1 | 0.42 | 4.8 | <0.5 | 9 | <1 | <0.2 |
| DUP 1237574 | QC | 0.065 | 42 | 45 | 1.21 | 439 | 0.100 | <20 | 2.23 | 0.104 | 0.17 | 0.4 | <0.01 | 0.1 | 0.45 | 5.3 | 0.7 | 10 | <1 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | |
| STD DS9 | Standard | 0.088 | 14 | 127 | 0.64 | 337 | 0.129 | <20 | 0.97 | 0.087 | 0.41 | 3.3 | 0.20 | 5.8 | 0.17 | 2.7 | 5.3 | 5 | 7 | 5.2 |
| STD OREAS45CA | Standard | 0.036 | 16 | 600 | 0.14 | 164 | 0.142 | <20 | 3.43 | 0.014 | 0.08 | <0.1 | 0.03 | <0.1 | <0.05 | 41.2 | <0.5 | 18 | 2 | <0.2 |
| STD OXC88 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OXG99 | Standard | | | | | | | | | | | | | | | | | | | |
| STD OREAS45CA Expected | | 0.0385 | 15.9 | 709 | 0.1358 | 164 | 0.128 | | 3.592 | 0.0075 | 0.0717 | | 0.03 | 0.07 | 0.021 | 39.7 | 0.5 | 18.4 | | |
| STD DS9 Expected | | 0.0819 | 13.3 | 121 | 0.6165 | 330 | 0.1108 | | 0.9577 | 0.0853 | 0.395 | 2.89 | 0.2 | 5.3 | 0.1615 | 2.5 | 5.2 | 4.59 | | 5.02 |
| STD OXC88 Expected | | | | | | | | | | | | | | | | | | | | |
| STD OXG99 Expected | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.05 | <0.1 | <0.5 | <1 | <1 | <0.2 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | | |
| G1-WHI | Prep Blank | 0.078 | 15 | 8 | 0.48 | 151 | 0.140 | <20 | 0.88 | 0.090 | 0.46 | <0.1 | <0.01 | 0.3 | <0.05 | 2.1 | <0.5 | 5 | <1 | <0.2 |
| G1-WHI | Prep Blank | 0.081 | 14 | 9 | 0.54 | 172 | 0.150 | <20 | 0.93 | 0.092 | 0.49 | <0.1 | <0.01 | 0.3 | <0.05 | 2.4 | <0.5 | 5 | <1 | <0.2 |

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