

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

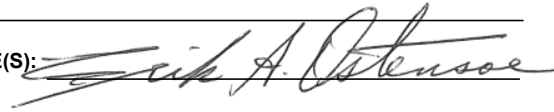
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Soil Sampling

TOTAL COST: \$19,460

AUTHOR(S): Erik Ostensoe, P.Geo

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____

YEAR OF WORK: 2015

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5576355, 5578701

PROPERTY NAME: Pitman-Keaper

CLAIM NAME(S) (on which the work was done): 854416, 1000162, 1000163, 1000263, 1037482, 1031824

COMMODITIES SOUGHT: Mo, Cu, Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Omineca

NTS/BCGS: 103I

LATITUDE: 54 ° 47 '00 " **LONGITUDE:** 128 ° 22 '00 " (at centre of work)

OWNER(S):

1) Casa Minerals Inc.

2) Farshad Shirvani

MAILING ADDRESS:

880-409 Granville St., Vancouver, BC, V6C 1T2

880-409 Granville St., Vancouver, BC, V6C 1T2

OPERATOR(S) [who paid for the work]:

1) Casa Minerals Inc.

2)

MAILING ADDRESS:

880-409 Granville St., Vancouver, BC, V6C 1T2

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Pitman molybdenite mineralization occurs in Carpenter Creek granodioritic batholith as very fine grained dissemination and in narrow quartz veins. Nearby Hazelton formation volcanoclastic rocks have been hornfelsed.

WoMo area at high elevation comprises sulphide mineralized hornfelsic alteration peripheral to Carpenter Creek granodiorite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 30900, 29151, 0866

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
|--|----------------------------------|---------------------------|---|
| GEOLOGICAL (scale, area) | | | |
| Ground, mapping | | | |
| Photo interpretation | | | |
| GEOPHYSICAL (line-kilometres) | | | |
| Ground | | | |
| Magnetic | | | |
| Electromagnetic | | | |
| Induced Polarization | | | |
| Radiometric | | | |
| Seismic | | | |
| Other | | | |
| Airborne | | | |
| GEOCHEMICAL (number of samples analysed for...) | | | |
| Soil 231 element ICP | | | |
| Silt | | | |
| Rock | | | |
| Other | | 1000162, 1000263, 1031824 | \$ 15,000 |
| DRILLING (total metres; number of holes, size) | | | |
| Core | | | |
| Non-core | | | |
| RELATED TECHNICAL | | | |
| Sampling/assaying | | | |
| Petrographic | | | |
| Mineralographic | | | |
| Metallurgic | | | |
| PROSPECTING (scale, area) | | | |
| PREPARATORY / PHYSICAL | | | |
| Line/grid (kilometres) | | | |
| Topographic/Photogrammetric (scale, area) | | | |
| Legal surveys (scale, area) | | | |
| Road, local access (kilometres)/trail | | | |
| Trench (metres) | | | |
| Underground dev. (metres) | | | |
| Other report preparation | | | \$ 4,600 |
| TOTAL COST: | | | \$19,460 |

TECHNICAL REPORT - PITMAN AND KEAPER PROPERTIES

EAST OF TERRACE, B. C.

SKEENA MINING DIVISION, BRITISH COLUMBIA, CANADA

NTS 103I

Pitman - 54°47'N, 128°22'W

UTM (NAD 83, ZONE 9) - 540724E, 6067689N

Keaper - 54°31'N, 128°11'W

- UTM (NAD 83, ZONE 9) - 545100E, 6004200N

Mineral Tenures: Pitman: 854416, 1000162, 1000163, 1000263

Keaper: 1031824

Owners: Casa Minerals Inc. and Farshad Shirvani

**Report Prepared for: Casa Minerals Inc.
880-409 Granville Street,
Vancouver, B. C., V6C 1T2**

**Report Prepared by: Erik Ostensoe, P. Geo.
305-3766 West 7th Avenue
Vancouver, B. C., V6R 1W8**

Effective Date of Report: April 14, 2016.

Events No. 5576355 (Keaper), 5578701 (Pitman).

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1. INTRODUCTION

The Pitman property, located 27 km northeast of Terrace, B. C., (Figure 1) is an historic molybdenum occurrence that has been explored by technical surveys and diamond drilling since 1957. Casa Minerals Inc. and related parties have held the property since 2006 and in that period have conducted several programs of technical surveys, all of which have been reported in assessment reports (see References and Minfile).

The Keaper mineral tenure, located 20 km north of Terrace, B. C., includes a site that was identified in 2006 by a provincial Geological Survey Branch team of field geologists (MMAR Report of Activities, 2007) as having strongly anomalous silver values. Casa Minerals Inc. prospectors and geologists have in recent years attempted to confirm the metal values and determine if it comprises a viable exploration site.

Casa Minerals Inc. in October, 2015, engaged Devin Grinder and Wyatt Brown, prospectors and experienced bushworkers, to complete a program of geochemical sampling at the Pitman mineral tenures and in the Keaper area, that are the subject of this technical report. Pitman area work included several traverses and the collection of 162 soil geochemical samples that were analysed for 33 elements by induced coupled plasma (ICP-ES) methods. Work in the Keaper area comprised traversing and sampling in the near vicinity of a reported silver occurrence(s); 67 soil samples were obtained and processed similarly to the Pitman area samples.

2. DETAILS OF PITMAN AND KEAPER TENURES

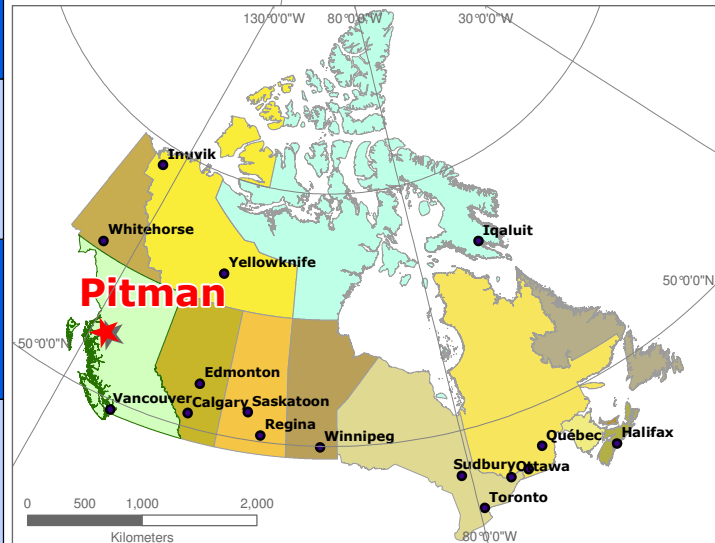
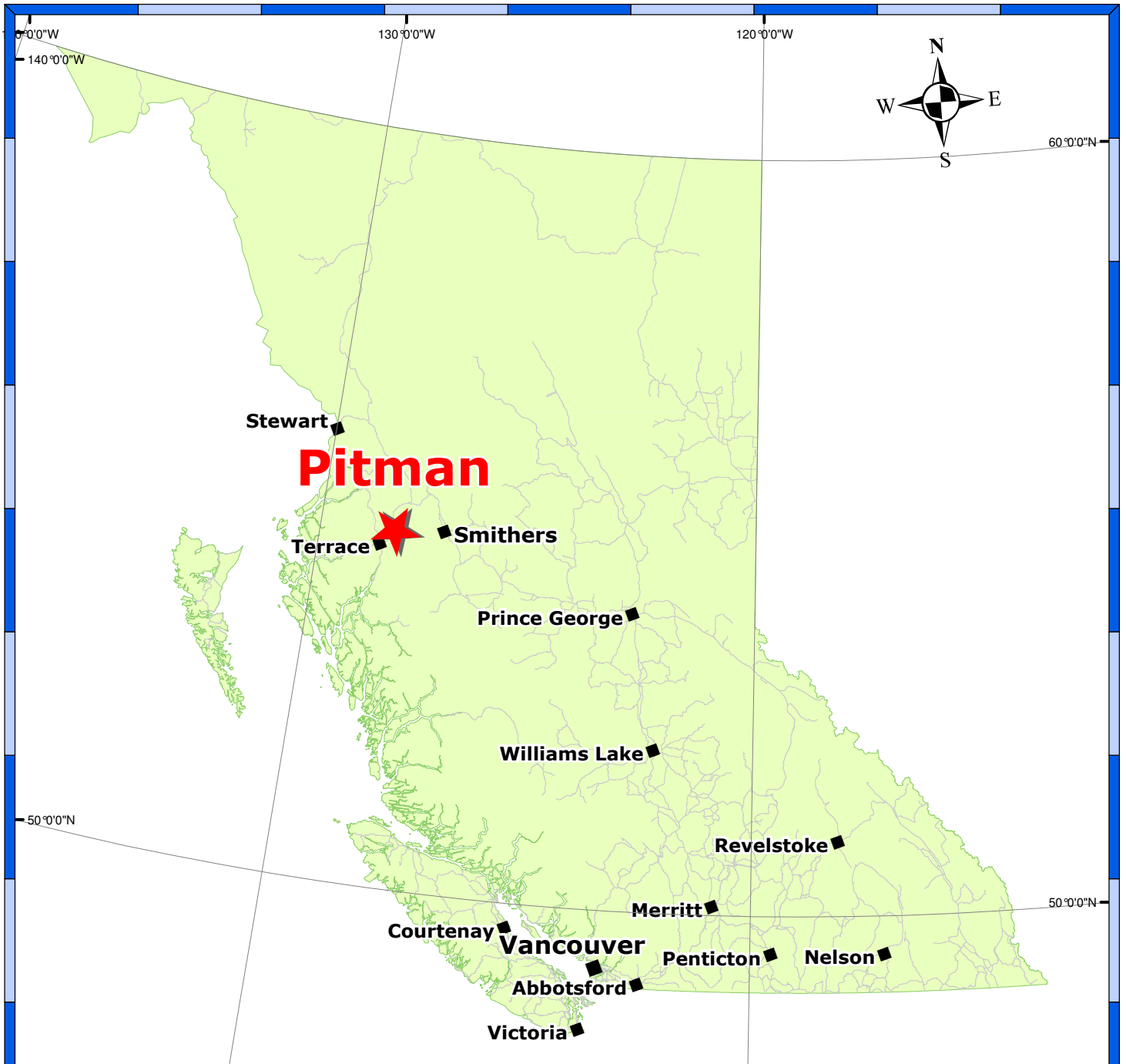
ARIS no. 31853 includes details of the location, physical setting, history, etc. of the Pitman and Keaper tenures. Pitman area tenures comprise 3546.37 hectares; Keaper, 1876.8 hectares.

In brief, Pitman is an historic molybdenum occurrence located close to the west side of Skeena River but the mineral tenures extend from low to high elevations to include extensive areas of sulphide occurrences proximal to the Carpenter Creek granitic intrusion. Samples from the latter area have elevated copper, gold and silver values and, less consistently, molybdenum, lead and zinc values. Keaper is located east of Skeena River and comprises an area from which grab samples of boulders have analysed very high silver values.

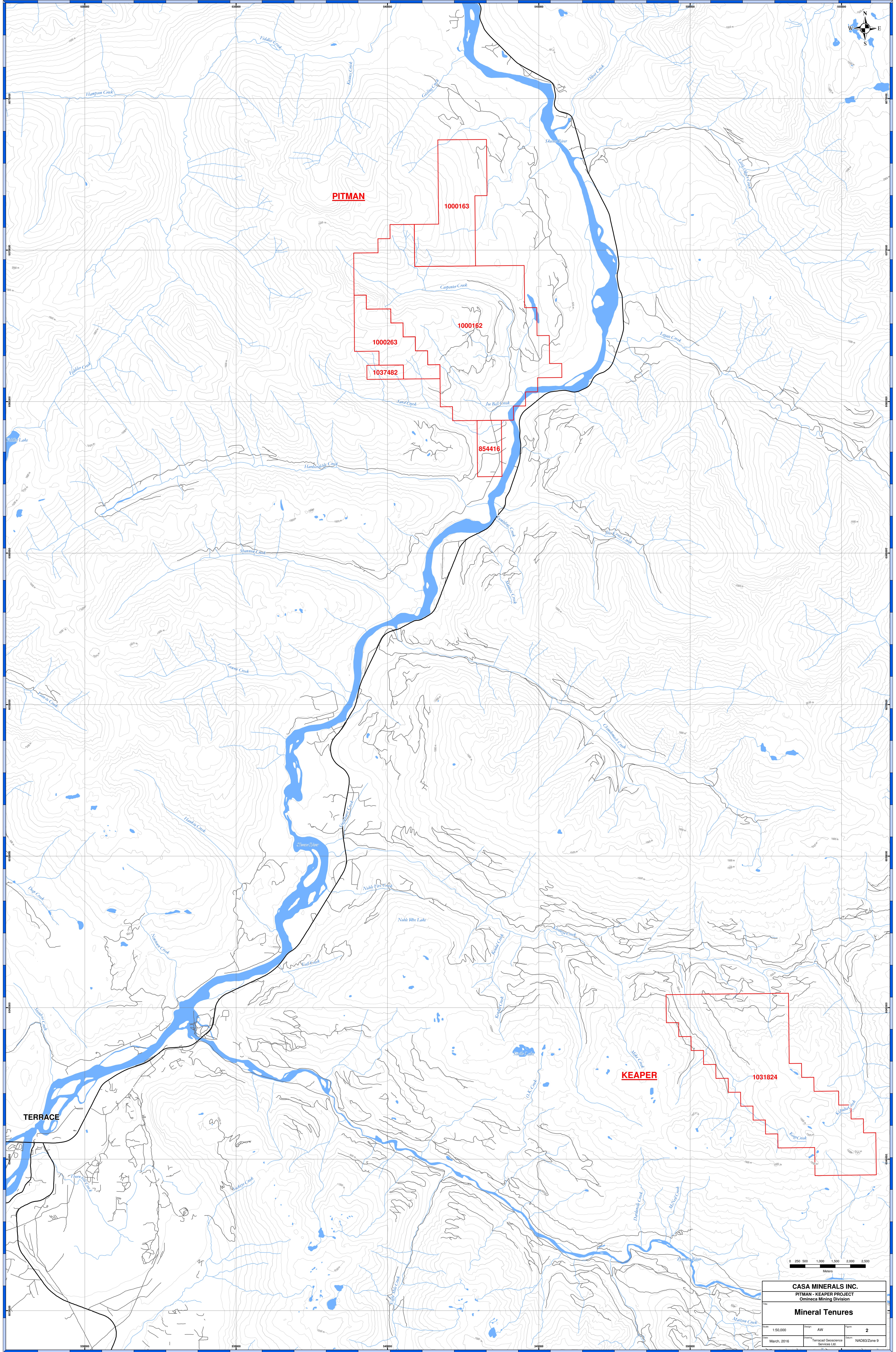
| Title Number | Claim Name | Owner | Issue Date | Good To Date | Area (ha) |
|--------------|--------------|--------------------|-------------|--------------|-----------|
| 854416 | PITMAN SOUTH | Casa Minerals Inc. | 2011/may/12 | 2016/jun/14 | 149.46 |
| 1000162 | PITMAN | Casa Minerals Inc. | 2012/jun/22 | 2016/jun/14 | 3229.17 |
| 1000163 | WOMO | Casa Minerals Inc. | 2012/jun/22 | 2016/jun/14 | 1398.53 |

| | | | | | |
|---------|-----------------|--------------------|-------------|-------------|---------|
| 1000263 | PADDY MAC | Casa Minerals Inc. | 2012/jun/22 | 2016/jun/14 | 373.39 |
| 1037482 | PADDY MAC EXT 1 | Farshad Shirvani | 2015/jul/23 | 2016/jul/23 | 56.02 |
| 1031824 | KEAPER | Farshad Shirvani | 2014/oct/27 | 2016/aug/14 | 1876.80 |

Mineral Tenures



| | | |
|---|--|----------------------|
| CASA MINERALS INC. | | |
| PITMAN-KEAPER PROPTERY | | |
| Title: Project Location in British Columbia | | |
| Scale: 1:8,500,000 | Design: AW | Figure: 1 |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: Long./Lat. |



PITMAN

1000163

1000162

1000263

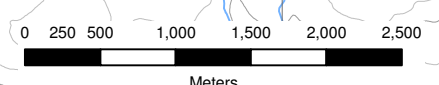
1037482

854416

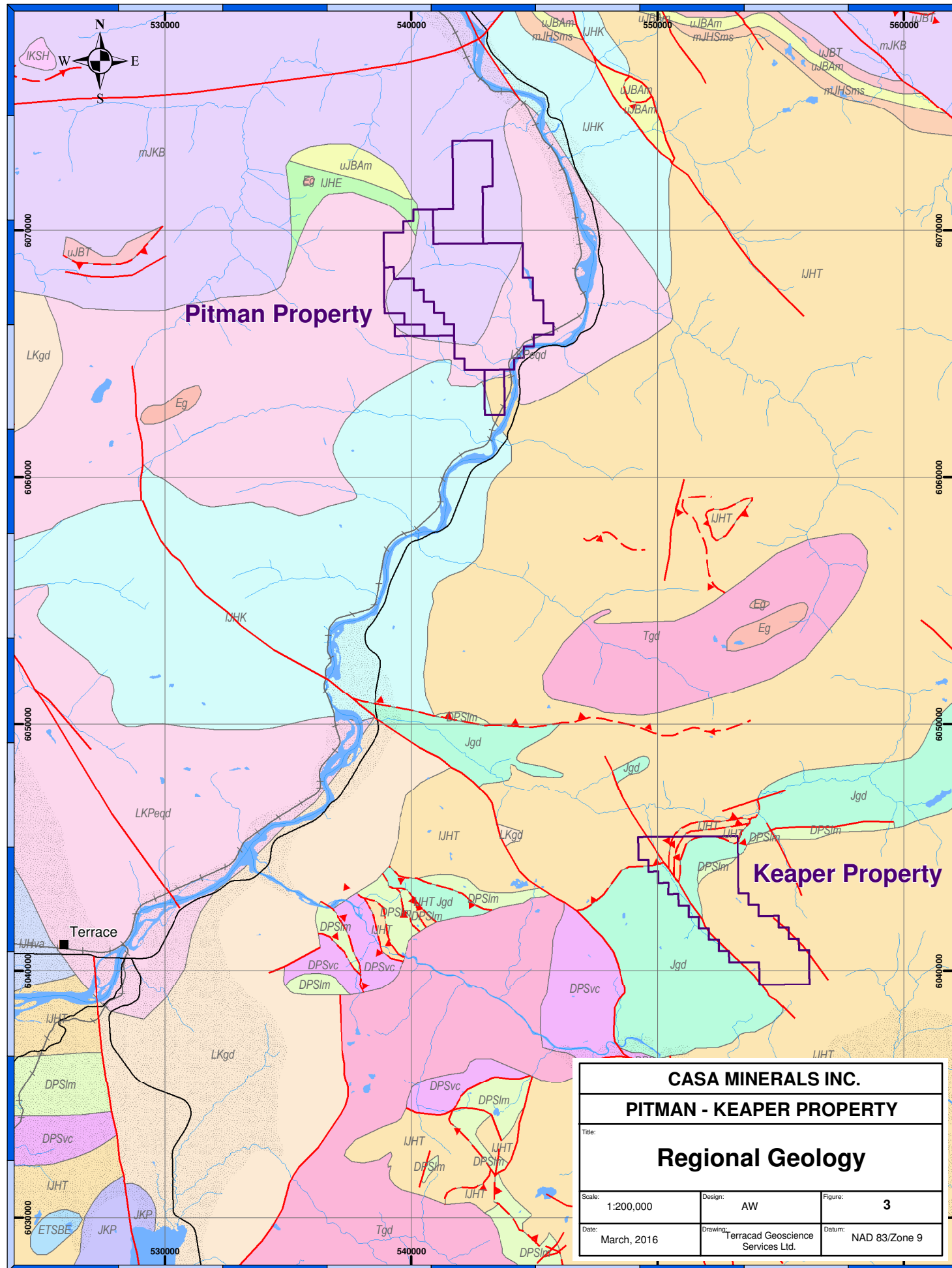
KEAPER

1031824

TERRACE



| | | | |
|---------------------------|------------------------------------|---------------------|--|
| CASA MINERALS INC. | | | |
| PITMAN - KEAPER PROJECT | | | |
| Omineca Mining Division | | | |
| Mineral Tenures | | | |
| Date: 150,000 | Drawn: AW | Page: 2 | |
| March, 2016 | Technical Geoscience Services Ltd. | Drawn: NAD83 Zone 9 | |

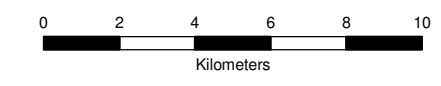


Legend

- Mineral Tenure
- Communities
- Fault
- Normal Fault
- ▲ Thrust
- Quaternary Unit

Regional Geology

- DPSlm - Paleozoic - Stikine Assemblage limestone, marble, calcareous sedimentary rocks
- DPSvc - Paleozoic - Stikine Assemblage volcanoclastic rocks
- ETSBE - Cenozoic - Strohn Creek, Mt Bolom and Ear Lake Plutons granite, alkali feldspar granite intrusive rocks
- Eg - Cenozoic - Coast Plutonic Complex(?) intrusive rocks, undivided
- JKP - Mesozoic - Poison Pluton quartz dioritic intrusive rocks
- Jgd - Mesozoic - Unnamed granodioritic intrusive rocks
- LKPeqd - Mesozoic to Cenozoic - Unnamed quartz dioritic intrusive rocks
- LKgd - Mesozoic - Unnamed granodioritic intrusive rocks
- Tgd - Cenozoic - Unnamed granodioritic intrusive rocks
- IJHE - Mesozoic - Hazelton Group - Eagle Peak Formation volcanoclastic rocks
- IJHK - Mesozoic - Hazelton Group - Kistelas Volcanics rhyolite, felsic volcanic rocks
- IJHT - Mesozoic - Hazelton Group - Telkwa Formation calc-alkaline volcanic rocks
- IJHva - Mesozoic - Hazelton Group andesitic volcanic rocks
- IKSH - Mesozoic - Skeena Group - Hanawald Conglomerate conglomerate, coarse clastic sedimentary rocks
- mJHSms - Mesozoic - Hazelton Group - Smithers Formation undivided sedimentary rocks
- mJKB - Mesozoic - Bowser Lake Group undivided sedimentary rocks
- uJBAm - Mesozoic - Bowser Lake Group - Ashman Formation mudstone, siltstone, shale fine clastic sedimentary rocks
- uJBT - Mesozoic - Bowser Lake Group - Trout Creek Formation undivided sedimentary rocks



3. OCTOBER 2015 PROGRAM OF SOIL GEOCHEMICAL SAMPLING

Pitman Property

163 soil samples were taken from the lower slopes immediately west of Skeena River, from Sand Creek easterly to Carpenter Creek. Sample locations were GPS-controlled and are plotted in figures that accompany this report. The area was selected on the basis of historic work, including diamond drilling, geophysical surveys, geological reconnaissance and soil geochemistry, that investigated molybdenite occurrences. Access was facilitated by following remnants of a very deteriorated drill road that follows Joe Bell Creek; elsewhere hillsides are steep and sampling requires strenuous efforts. Soil samples were submitted to Acme Analytical Laboratories Ltd. (now BV Minerals) in Smithers, B. C. for preparation, after which the prepared samples were forwarded to Acme's Vancouver laboratory for ICP-ES analysis for 33 elements. Only selected metals, molybdenum (Figure 5a), copper (Figure 5b), silver (Figure 5c) and manganese (Figure 5d) were plotted for purposes of this report: many of the remaining elements are not considered relevant to the exploration process. Complete analytical data are shown in Appendix 2 – Certificate of Analysis VAN15000106.

Keaper Property

The Keaper, mineral tenure 1031824, is located east of Skeena River and is accessed by logging roads that branch southwesterly from the Kleanza Creek main haulage logging road. Granite typical of Coast Intrusions occurs throughout the Keaper area. Previous work by the present owners in the Keaper area comprised a search for the source area from which Geological Survey Branch scientists had obtained samples with strongly anomalous silver values (bed rock sample: 2,232,000ppb Ag). Work included reconnaissance prospecting and soil sampling along and close to various logging roads. Analytical data have been reported in ARIS reports.

Earlier in 2015, geologist/prospectors working for the owner located a site that appears to be the source of the anomalous GSB samples. That work was reported in ARIS 35593, a technical report by the present author dated July 29, 2015. A sample taken from large boulders contained strongly anomalous metal values, including 8 ppm molybdenum, 3,522.0 ppm copper, 3,267.7 ppm lead, >10,000 ppm zinc, >100 ppm silver, 150.6 ppm arsenic, 8.0 ppb gold, 440.7 ppm cadmium, 1,954.1 ppm antimony, 3.41 ppm mercury and apparently- elevated levels of nickel, cobalt, manganese, strontium and vanadium.

Sixty-seven soil geochemical samples were taken, mostly at 50 metre spacing, from locations in Keap Creek drainage close to the logging road that provided access. Sample locations were GPS-controlled and are plotted in figures that accompany this report. Soils have "fair" to "good" profile development and for sampling purposes a dark reddish brown "B" horizon layer found at shallow depth (20 to 25 cm depth), where present, was selected. Soil samples were submitted to Acme Analytical Laboratories Ltd. (now BV Minerals) in Smithers, B. C. for preparation followed by transfer to Acme's Vancouver laboratory for 33 element ICP-ES analysis (reference: BV Minerals Cert. of Analysis VAN15000106, see Appendix 2). Soil sample locations and selected analyses are plotted in Figure 5b (molybdenum), Figure 6b (copper), Figure 7b (silver) and Figure 8b (manganese) of this report.

4. DISCUSSION OF RESULTS

The autumn 2015 program of work comprised an attempt to determine the merits of the Pitman molybdenum prospect and of the “Keeper”, a small area located approximately 21 km to the south southeast from which high silver values have been obtained. Field work in the Pitman area benefited from historic drill data and from work in recent years that included data compilation, prospecting, MMI and conventional soil geochemical surveys, and a structural study based on satellite imagery.

Pitman Area

Autumn, 2015 work in the Pitman area was directed to areas that have reported or verified molybdenite occurrences and, included areas that had been explored by Canex and E & B Explorations. Work in the area in June, 2015 had attempted unsuccessfully to locate “Upper” and “Lower” mineral zones, as shown in a drawing in the 1980 E & B Explorations Ltd. assessment report (Kruckowski, 1980). Failure resulted in part due to vague descriptions in earlier reports, but also to the passage of time that has resulted in erasure of most features that might have been useful clues to their locations. As reported in the assessment report of June, 2015 prospecting and sampling (ARIS #35593), the expectation that rock and soil analytical data would provide sufficient information to allow re-discovery of the reported mineral zones was not realized and the subsequent autumn program of soil sampling was largely an attempt to use soil geochemistry as an additional search tool.

The geology of Pitman molybdenum area is dominated by a granitic intrusion that is almost certainly related to the large nearby Carpenter Creek pluton. Several variations were noted, ranging from quartz porphyry with coarse, glassy quartz grains, to sugary-textured equigranular granite. Small areas of dark, very fine grained meta-sedimentary rocks that were located in bulldozer side-cuts are remnant pendants, likely of Hazelton Group formations.

One hundred and sixty-two soil samples were obtained from a GPS-controlled grid. Soil development is variable, ranging from poor quality to “good” profiles. Where present, the samplers selected parts of a reddish coloured soil horizon that is, generically, a “B” horizon that underlies the superficial organic and immature “A” layer. Elsewhere the soil comprised grayish modified glacial till material. The samplers did not consistently record the identity of the sample material. Soils were forwarded to the Smithers, B. C., prep lab of Bureau Veritas (formerly Acme Analytical Laboratories) for initial processing, followed by transfer to BV’s Vancouver laboratory where they were analysed for 33 elements. Reference is to Appendix 2 that includes Certificate of Analysis SM15000106.

Molybdenum in soils data, as shown in Figure 5a, shows an area of moderately elevated molybdenum values (maximum 221 ppm Mo) located on the easterly slope of the ridge that separates Sand Creek on the west from Joe Bell Creek, and similar values east of Joe Bell Creek (maximum value 133 ppm Mo), the site of an undetermined amount of historic drilling and ‘dozer trenching. Copper in soils data (Figure 5b) is rather featureless, without any values of particular significance. Silver analyses (Figure 5c) are uniformly very low. Manganese analyses (Figure 5d) show a marked difference, with samples from the west side of Joe Bell Creek relatively low, maximum 1,299 ppm, and those from the east side, more

uniformly “high”, maximum 4,309 ppm. The significance of the moderately strong manganese values is uncertain but likely reflects an underlying terrain with pendants or remnants of sedimentary formations.

Keaper Area

Work in the Keaper area in June 2015 was believed to have re-located the mineral zone first reported by GSB scientists. From initial observations, it appeared that the subject zone is situated on a slumped area that has displaced a mass of rock, glacial till and vegetation about 100 metres down a 20° slope. Such a situation is not uncommon in mountainous terrains but is usually obscured by vegetation whereas at Keaper the entire slope proximal to the logging road has been clearcut logged, thereby exposing the escarpment and the displaced (?) material. A grab sample of the mineralization (sample no. 201542) that was analysed returned 8 ppm molybdenum, 3522.0 ppm copper, 3267.7 ppm lead, >10000 ppm zinc, >100 ppm silver, 150.6 ppm arsenic, 8.0 ppb gold, 440.7 ppm cadmium, 1954.1 ppm antimony, 3.41 ppm mercury and apparently- elevated levels of nickel, cobalt, manganese, strontium and vanadium (ARIS 35593, Ostensoe, 2015). The array of elevated metal values is consistent with a hydrothermal mineralizing event and is strongly suggestive of the presence of sulphosalt (i.e. tetrahedrite family) minerals.

The autumn 2015 soil geochemical sampling work was directed to the area believed to include the reported anomalous metal values reported by the GSB field crew (McKeown, M., Nelson, J. L. and Friedman, R, 2008). A GPS-controlled grid of samples, comprising 67 soil samples, was placed on and proximal to the “float” boulders from which the GSB samples were obtained. The grid extended easterly from the upslope edge of a logging clear-cut, downslope in the clear-cut for about 400 metres.

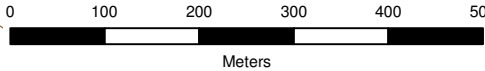
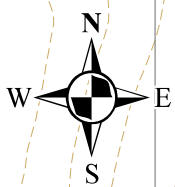
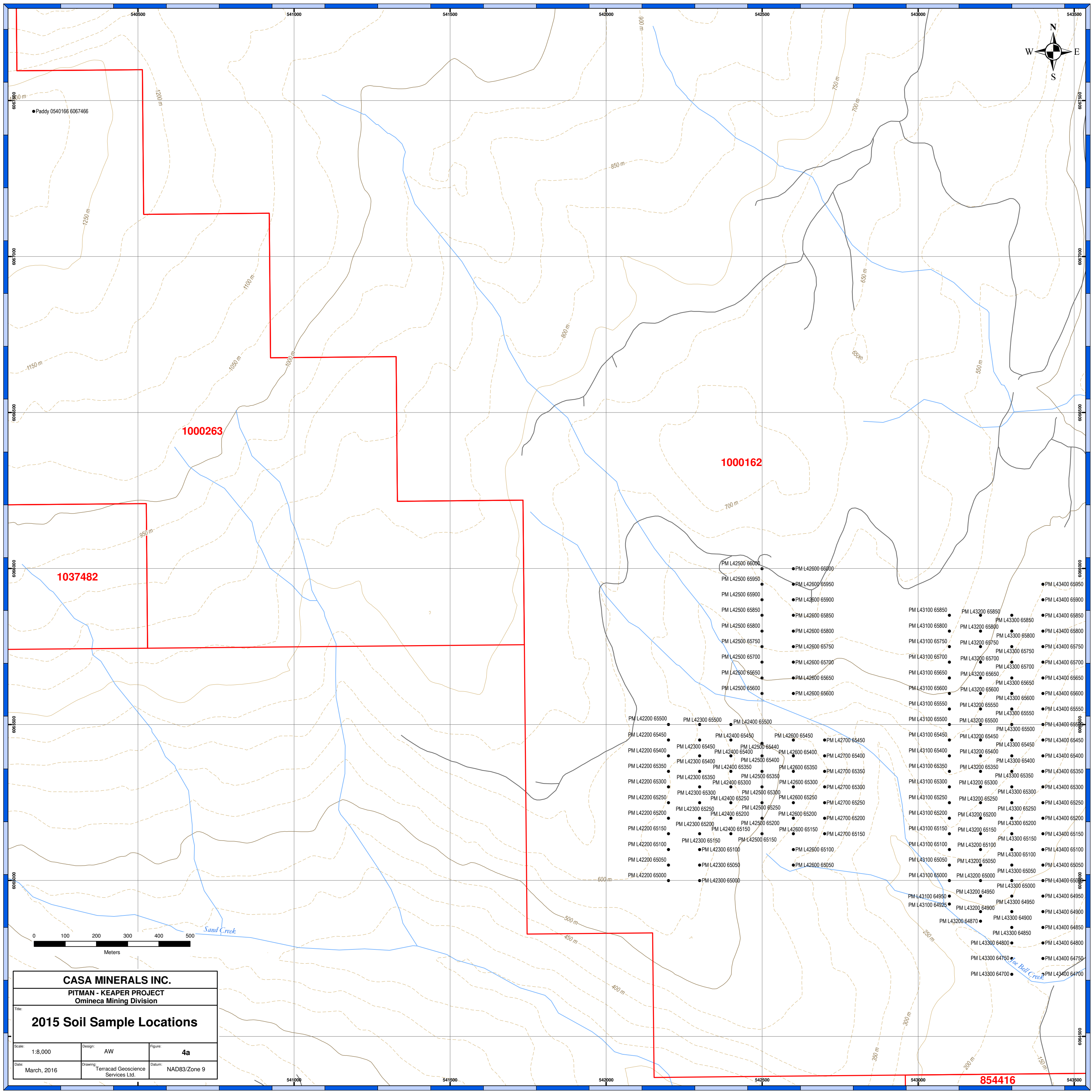
The host formations in the Keaper area were identified by McKeown, et al. (2008) as “Paleozoic volcanic rocks of the Stikine assemblage” but much of the area is underlain by monotonous, grey, equigranular granite related to the Coast Intrusions Complex. No further geological information was obtained by the soil sampling crew other than “all outcrops were of granite” (D. Grinder, personal communication, Nov, 2015).

Molybdenum, copper, silver and manganese analyses were plotted for purposes of this report (Figures 5b, 6b, 7b, 8b). Apparently elevated copper in soils values, above an arbitrarily selected value of 100 ppm copper, are present in most parts of the sampling grid (Figure 6b). Although a useful number of samples are represented, data from further sampling of an extended grid is required. Silver in soils values (Figure 7b) are low but the distribution of higher values suggests that the small grid of 67 samples is insufficient to allow any conclusions regarding the possible presence of a mineralized source area: the data failed to direct attention to the assumed source of the mineralized boulders that were described in the earlier ARIS report. Several samples with very high manganese contents (greater than 10,000 ppm) (Figure 8b) may be reflective of particular soil conditions in the thin and somewhat immature soil layer overlying Coast Range-type granite. Manganese minerals are, however, frequently a component of silver-bearing deposits.

5. CONCLUSIONS

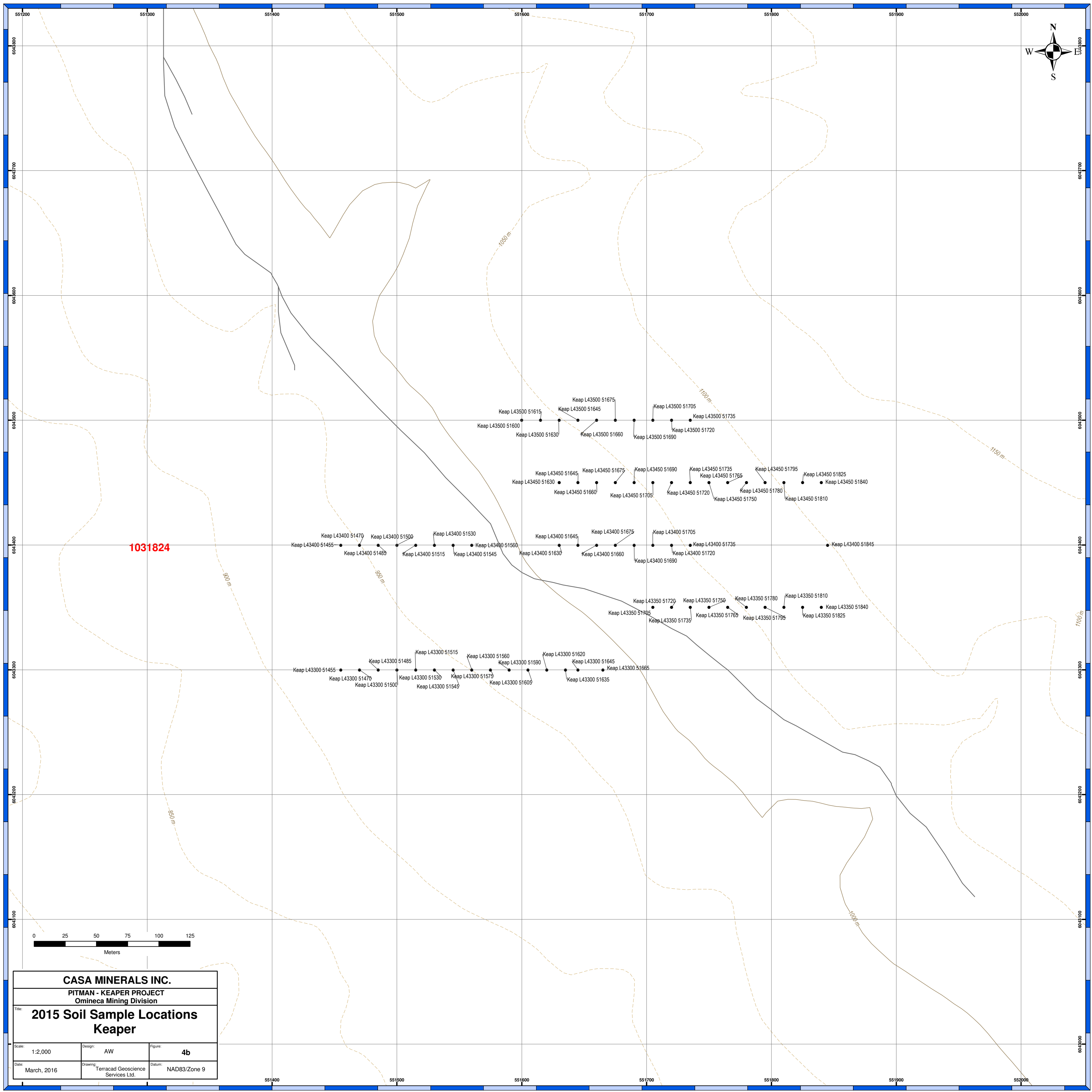
The autumn 2015 program of soil sampling in the vicinity of the reported Pitman molybdenite occurrences supports the exploration model that associates molybdenum with leucocratic granitic intrusions and is a useful addition to the exploration database. Further work, including prospecting, soil sampling and detailed geologic mapping, is required.

Soil sampling in the so-called "Keeper" prospect area yielded inconclusive results. The sample grid should be enlarged to provide a better basis for evaluation of the area and prospecting in the area should continue.

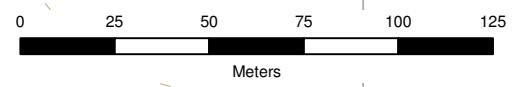


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| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Locations | | |
| Scale: 1:8,000 | Design: AW | Figure: 4a |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

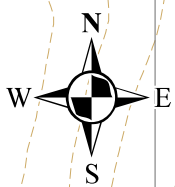
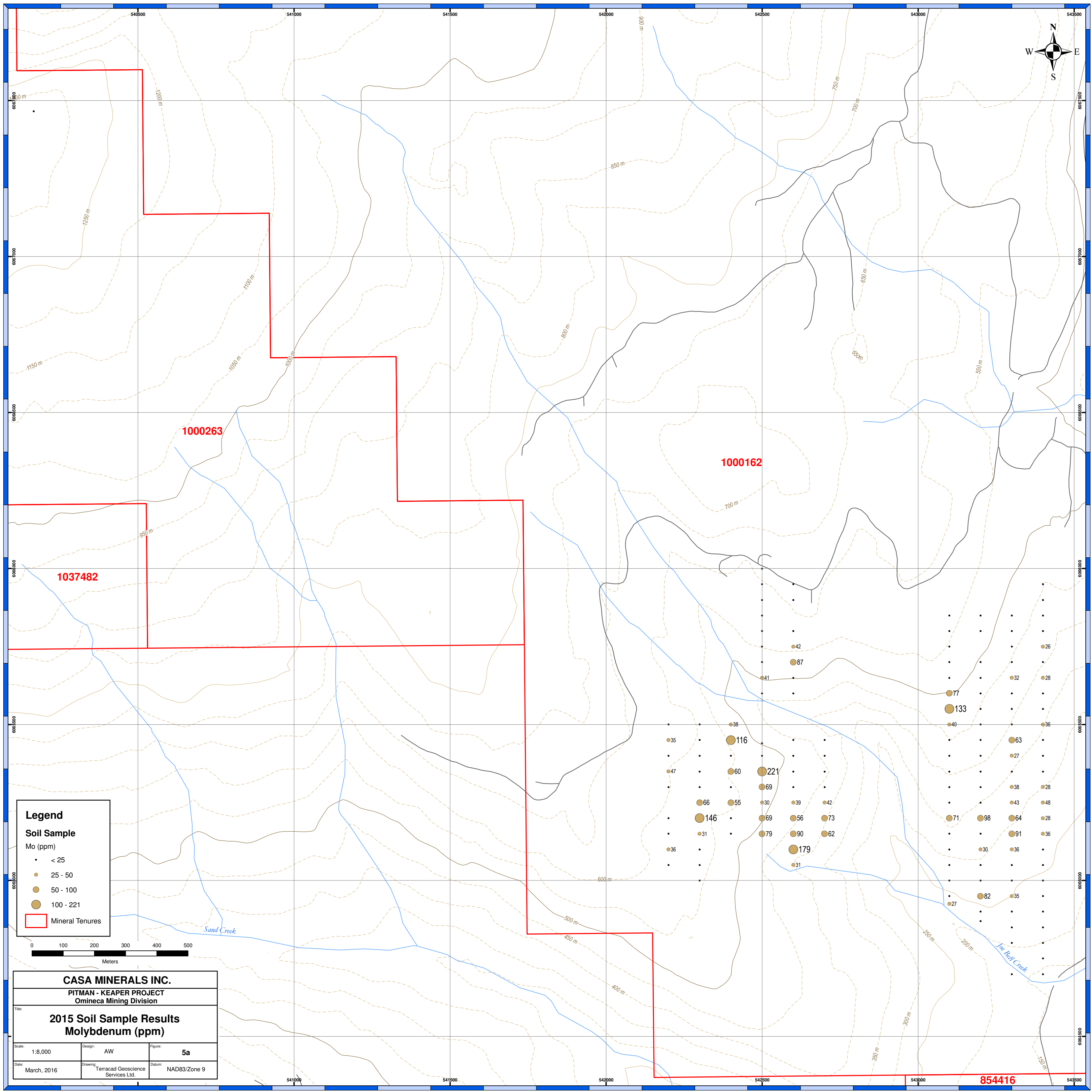
854416



1031824



| | | |
|---|--|---------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Locations Keaper | | |
| Scale: 1:2,000 | Design: AW | Figure: 4b |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |



1000263

1000162

1037482

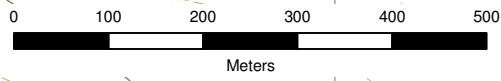
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Soil Sample

Mo (ppm)

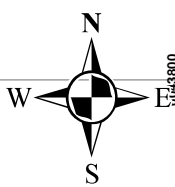
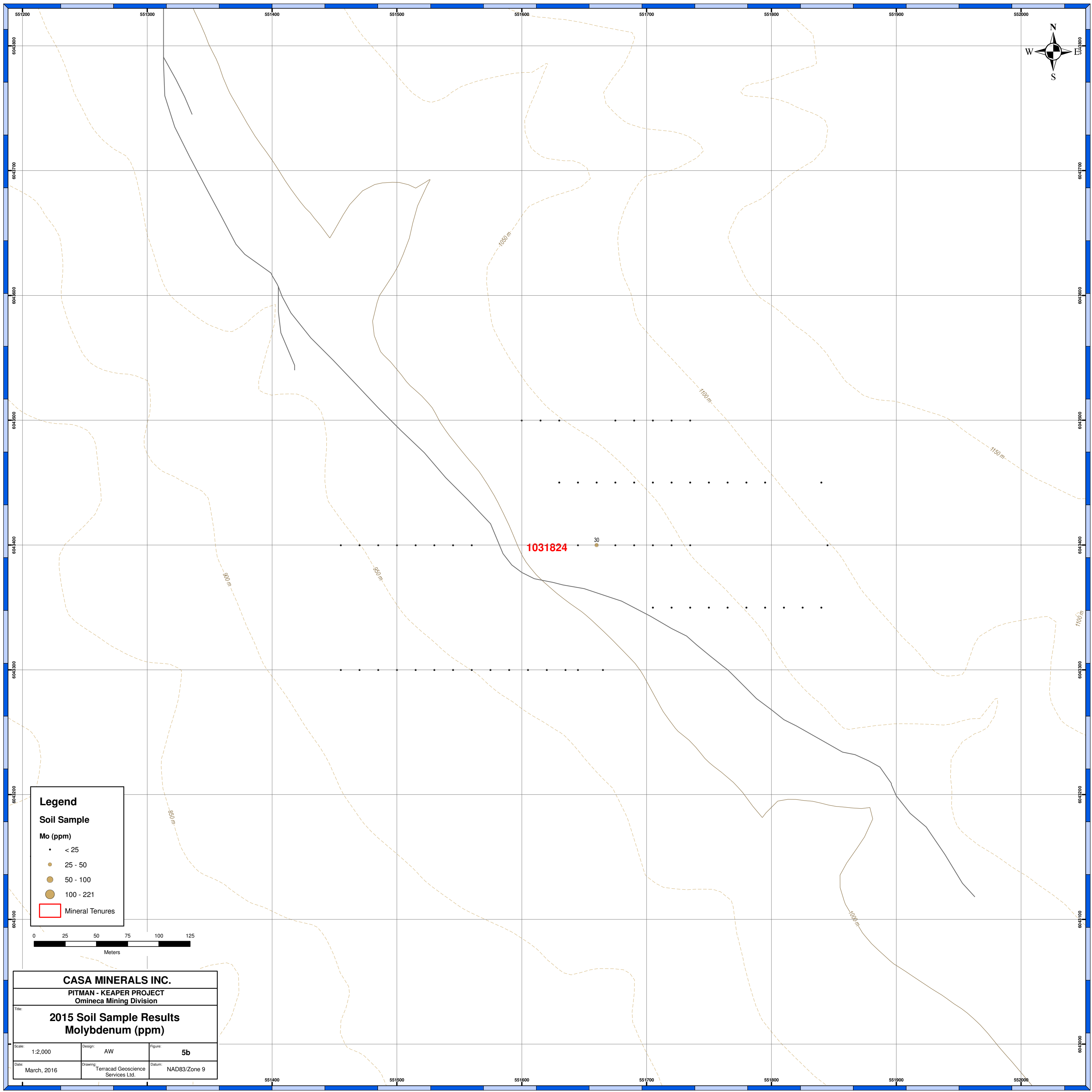
- < 25
- 25 - 50
- 50 - 100
- 100 - 221

□ Mineral Tenures



| | | |
|--|--|---------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Molybdenum (ppm) | | |
| Scale: 1:8,000 | Design: AW | Figure: 5a |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

854416



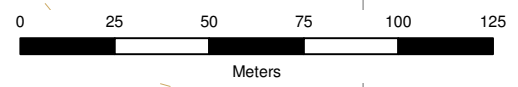
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Soil Sample

Mo (ppm)

- < 25
- 25 - 50
- 50 - 100
- 100 - 221

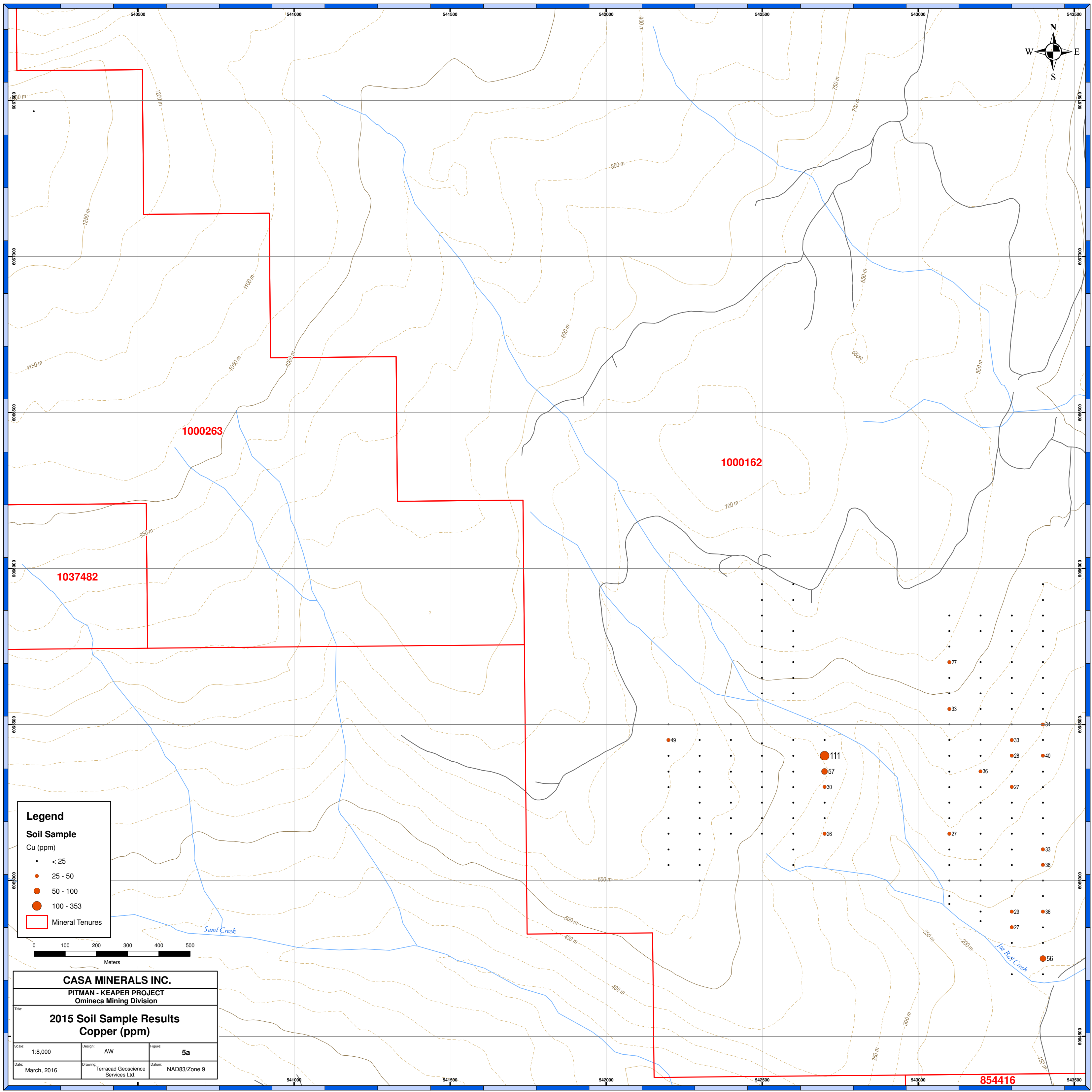
□ Mineral Tenures



| | | |
|--|--|---------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Molybdenum (ppm) | | |
| Scale: 1:2,000 | Design: AW | Figure: 5b |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

1031824

30



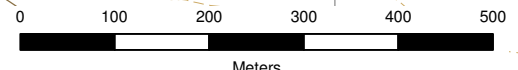
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Soil Sample

Cu (ppm)

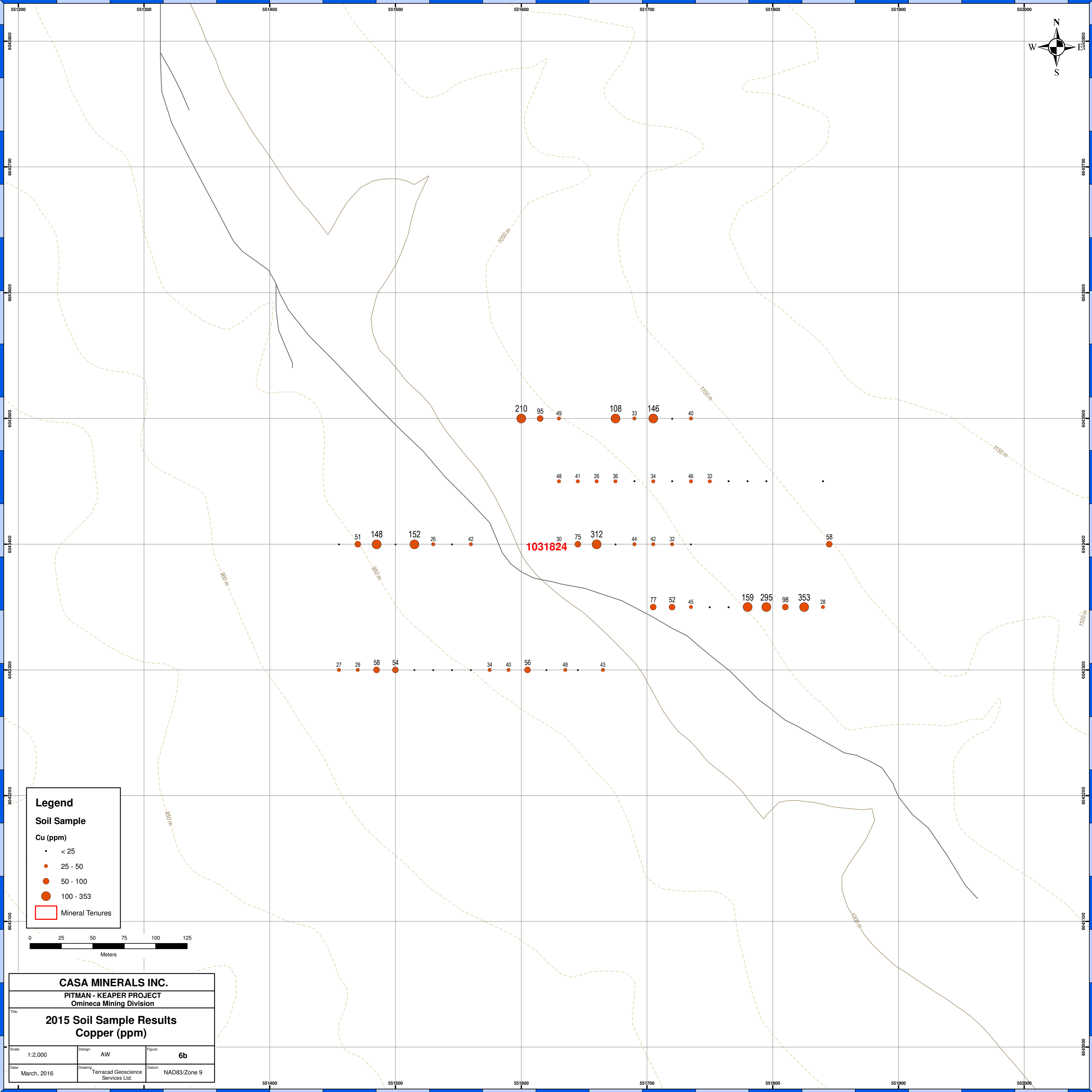
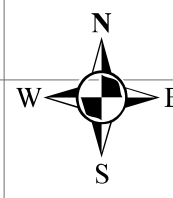
- < 25
- 25 - 50
- 50 - 100
- 100 - 353

□ Mineral Tenures



| | | |
|--|--|------------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Copper (ppm) | | |
| Scale: 1:8,000 | Design: AW | Figure: 5a |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

854416



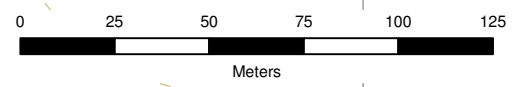
Legend

Soil Sample

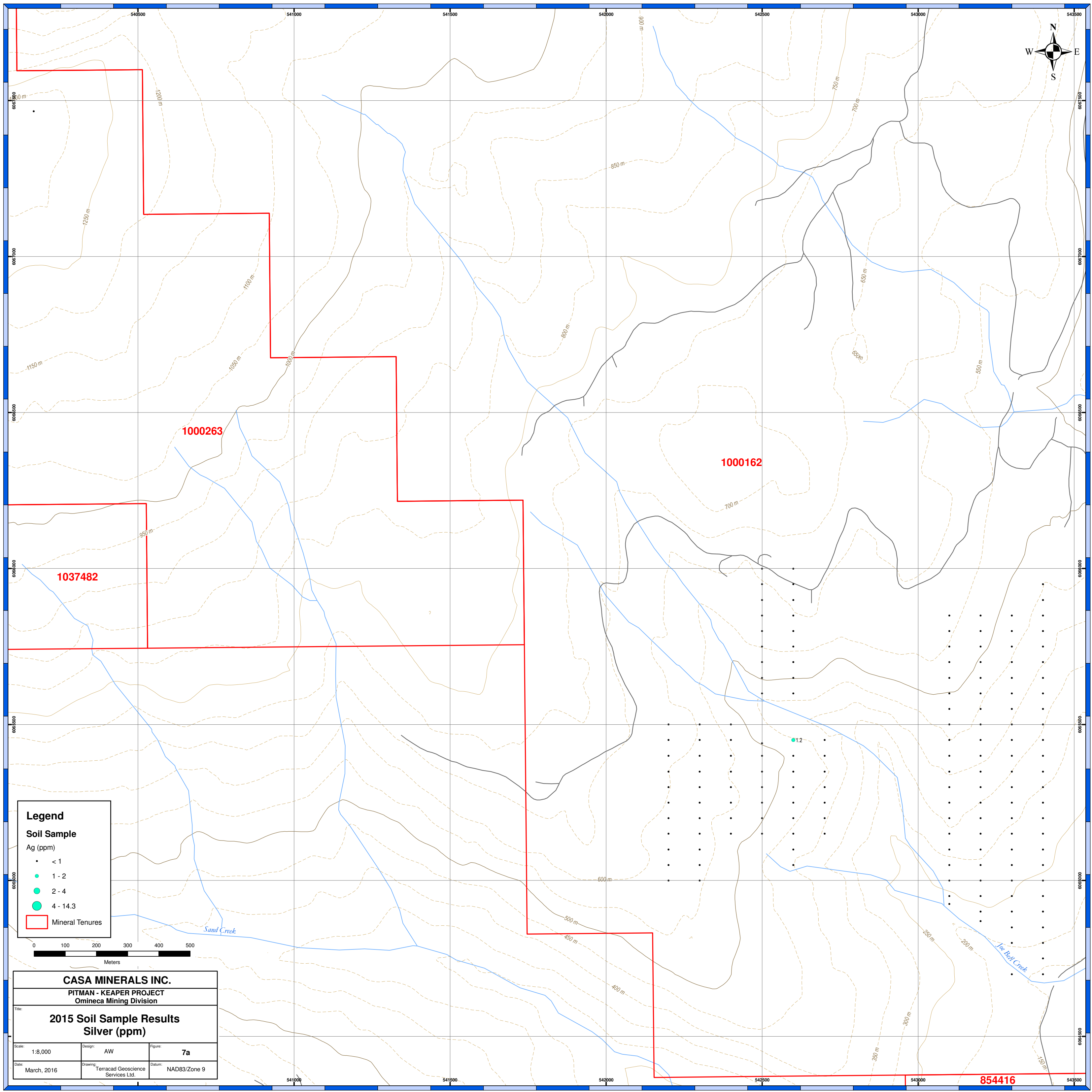
Cu (ppm)

- < 25
- 25 - 50
- 50 - 100
- 100 - 353

□ Mineral Tenures



| | | |
|--|--|------------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Copper (ppm) | | |
| Scale: 1:2,000 | Design: AW | Figure: 6b |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |



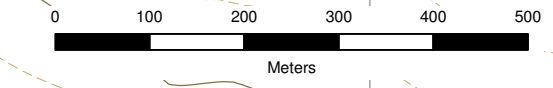
Legend

Soil Sample

Ag (ppm)

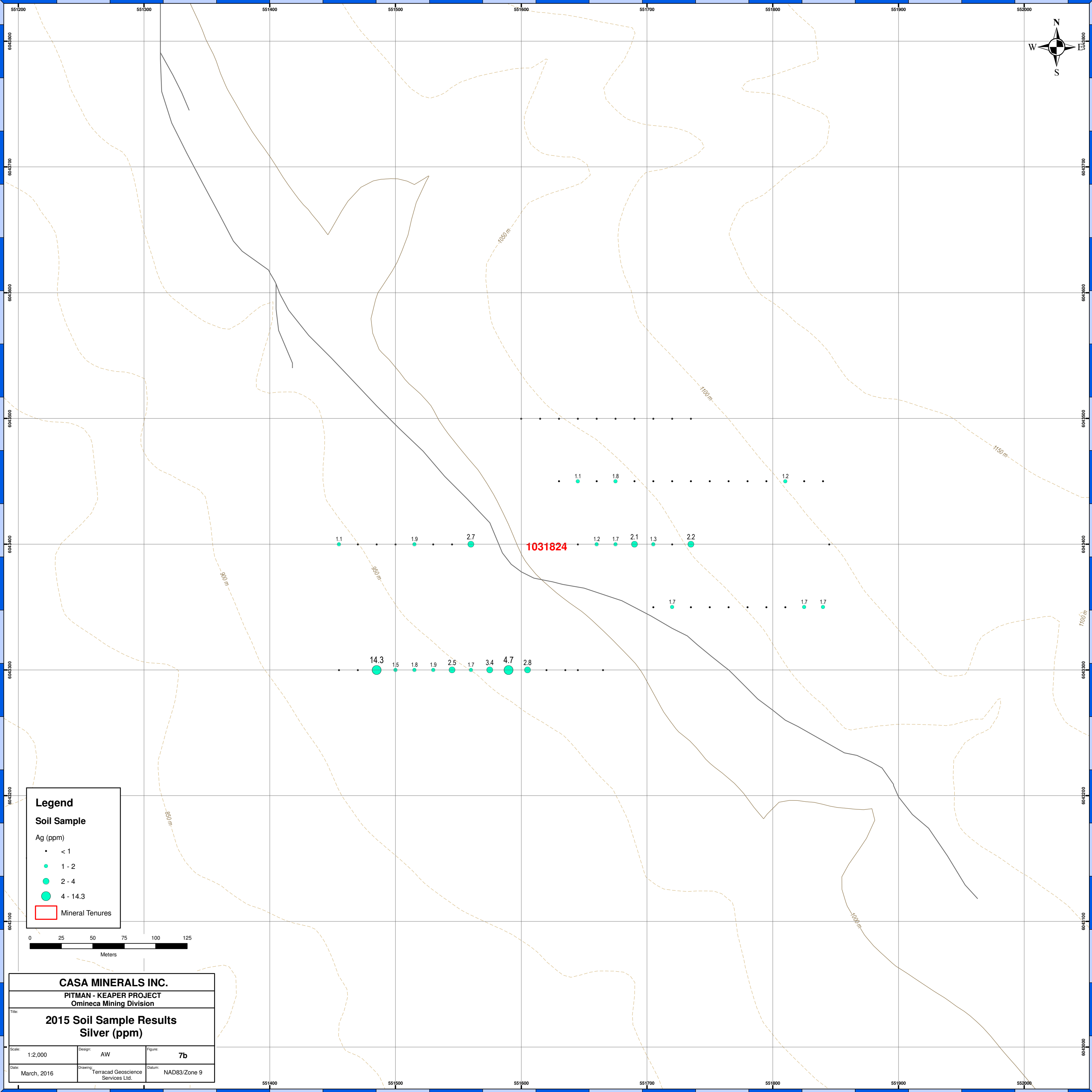
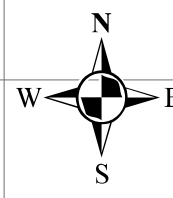
- < 1
- 1 - 2
- 2 - 4
- 4 - 14.3

▭ Mineral Tenures



| | | |
|--|--|------------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Silver (ppm) | | |
| Scale: 1:8,000 | Design: AW | Figure: 7a |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

854416



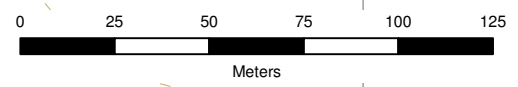
Legend

Soil Sample

Ag (ppm)

- < 1
- 1 - 2
- 2 - 4
- 4 - 14.3

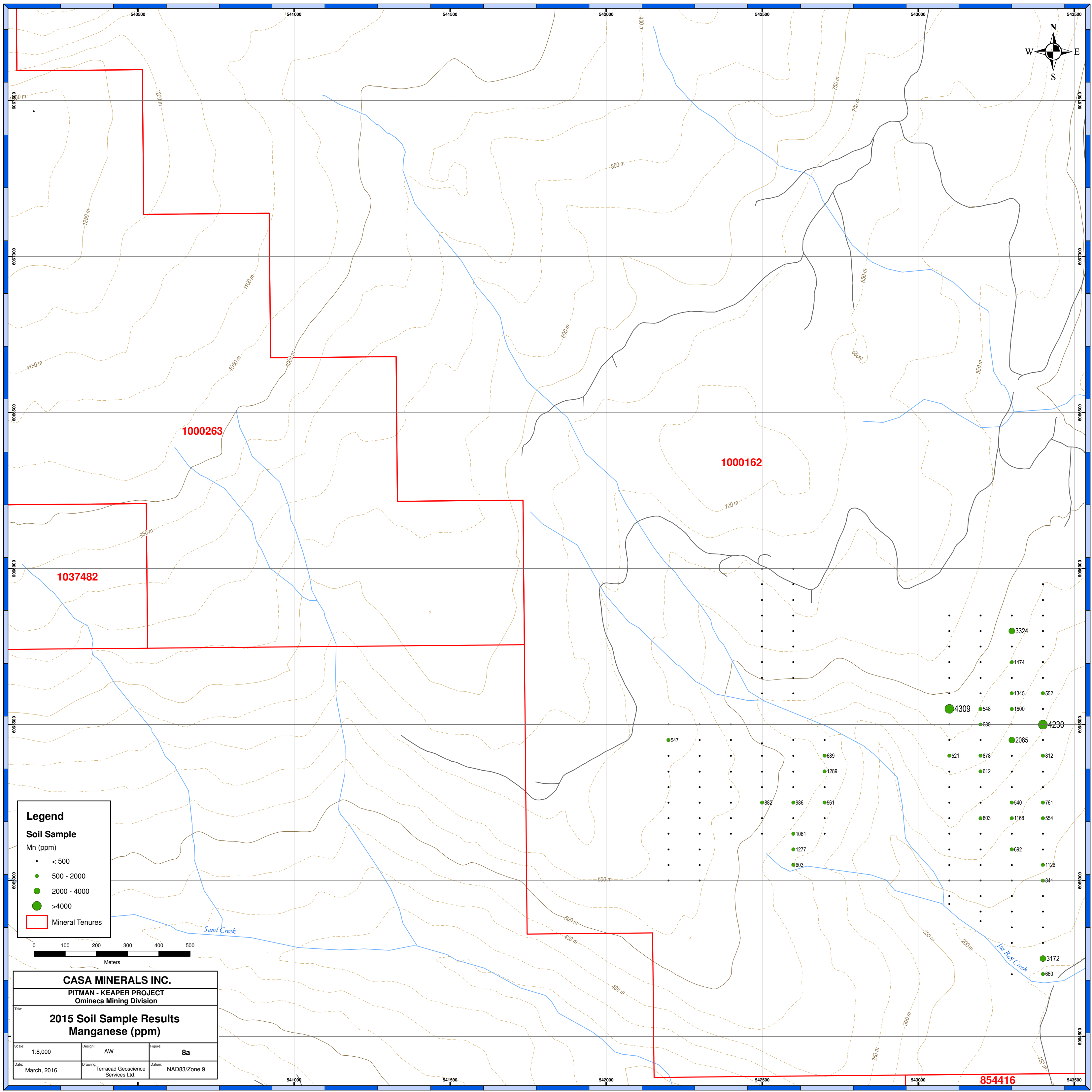
Mineral Tenures



| | | |
|--|--|------------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Silver (ppm) | | |
| Scale: 1:2,000 | Design: AW | Figure: 7b |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

1031824

- | Sample ID | Ag (ppm) |
|-----------|----------|
| 1.1 | 1.1 |
| 1.2 | 1.2 |
| 1.3 | 1.3 |
| 1.7 | 1.7 |
| 1.7 | 1.7 |
| 1.7 | 1.7 |
| 1.8 | 1.8 |
| 1.9 | 1.9 |
| 1.9 | 1.9 |
| 2.1 | 2.1 |
| 2.2 | 2.2 |
| 2.5 | 2.5 |
| 2.7 | 2.7 |
| 2.8 | 2.8 |
| 3.4 | 3.4 |
| 4.7 | 4.7 |
| 14.3 | 14.3 |



Legend

Soil Sample

Mn (ppm)

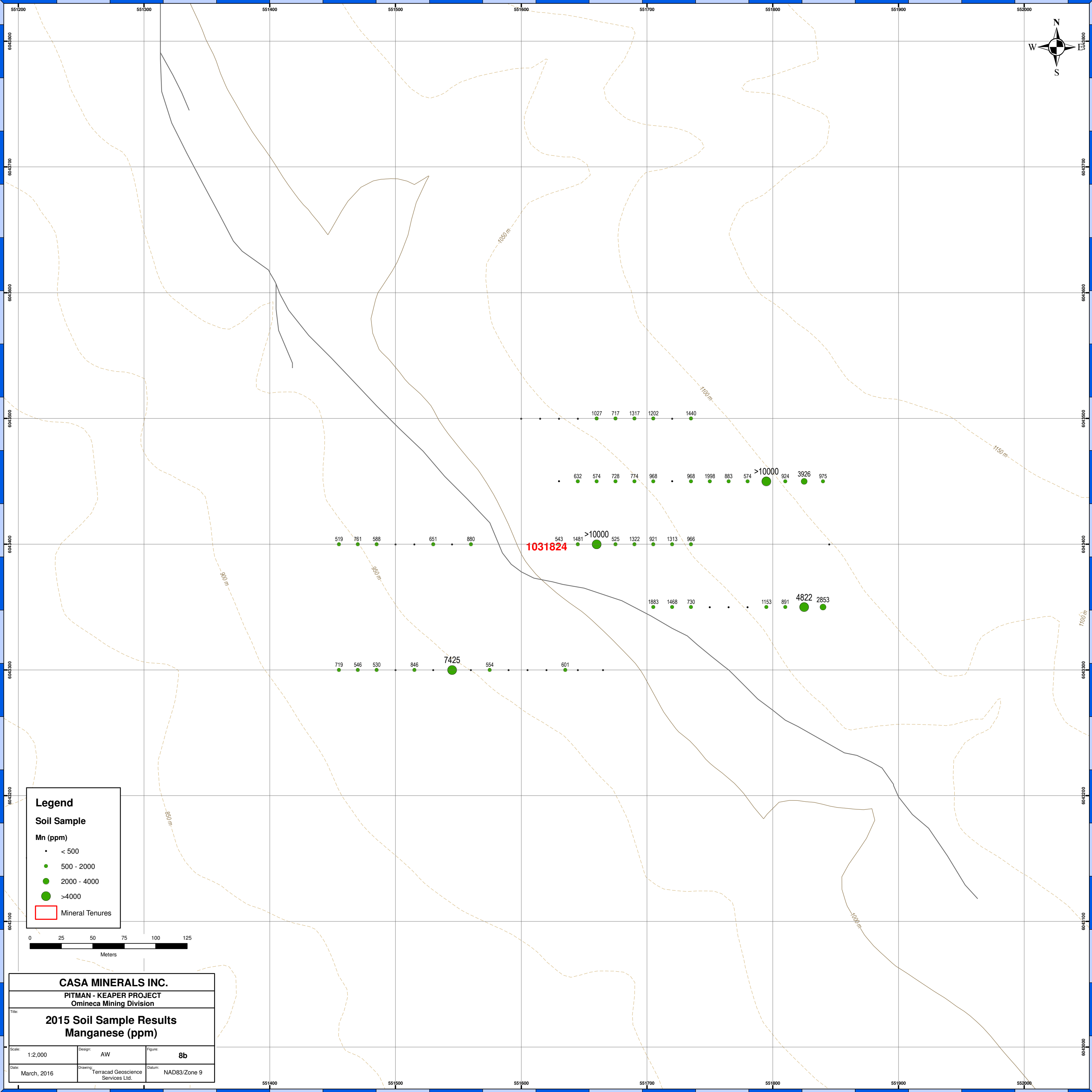
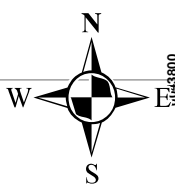
- < 500
- 500 - 2000
- 2000 - 4000
- >4000

□ Mineral Tenures



| | | |
|---|--|---------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Manganese (ppm) | | |
| Scale: 1:8,000 | Design: AW | Figure: 8a |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

854416



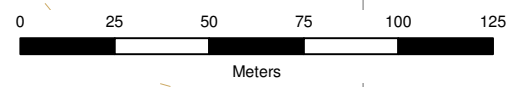
Legend

Soil Sample

Mn (ppm)

- < 500
- 500 - 2000
- 2000 - 4000
- >4000

□ Mineral Tenures



| | | |
|---|--|------------------------|
| CASA MINERALS INC. | | |
| PITMAN - KEAPER PROJECT Omineca Mining Division | | |
| Title: 2015 Soil Sample Results Manganese (ppm) | | |
| Scale: 1:2,000 | Design: AW | Figure: 8b |
| Date: March, 2016 | Drawing: Terracad Geoscience Services Ltd. | Datum: NAD83/Zone 9 |

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7. AUTHOR'S QUALIFICATIONS

Erik Ostensoe, P. Geo., consulting geologist, is the principal author of the accompanying report. He has been active in mineral exploration work for more than 45 years and is familiar with the geology of molybdenum deposits and with the geology of all parts of the Canadian Cordillera.

8. STATEMENT OF EXPENDITURES

Pitman Project - Statement of Expenditures - October 2015 program

Devin Granger and Wyatt Brown

| | | |
|-----------|---|----------|
| Oct-17 | Preparation 1 day @ \$700 | 700.00 |
| Oct-18 | Travel Quesnel to Terrace - 1 day @ \$700 | 700.00 |
| Oct 19-29 | Sampling - 10 days @ \$700 | 7000.00 |
| Oct-30 | Travel Terrace to Quesnel - 1 day @ \$700 | 700.00 |
| | Analyses & sample supplies | 2820.72 |
| | Truck rental - 13 days @ \$50/day | 650.00 |
| | Gas | 800.00 |
| | Accommodation - 12 nights @ \$130/night | 1560.00 |
| | Food and restaurant - 12 days @ \$50/person/day | 1200.00 |
| | Report preparation | |
| | Anke Woodworth - GIS specialist - 2 days @ \$600 | 1200.00 |
| | Erik Ostensoe, P. Geo. - 2 days @ \$600 | 1200.00 |
| | Farshad Shirvani, MSc., project management | 600.00 |
| | Office costs, computers, plotters, communications | 400.00 |
| | Total | 19530.72 |

APPENDIX 1.

Soil Sample Description and Locations

Pitman Area: Soil development is variable, ranging from poor quality to “good” profiles. Where present, the samplers selected parts of a reddish coloured soil horizon that is, generically, a “B” horizon that underlies the superficial organic and immature “A” layer.

Keaper Area: Soils have “fair” to “good” profile development and for sampling purposes a dark reddish brown “B” horizon layer found at shallow depth (20 to 25 cm depth), where present, was selected.

| Sample | Easting | Northing | Location | Type |
|-----------------|---------|----------|----------|------|
| PM L42200 65000 | 542200 | 6065000 | Pitman | Soil |
| PM L42200 65050 | 542200 | 6065050 | Pitman | Soil |
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| PM L43400 65100 | 543400 | 6065100 | Pitman | Soil |
| PM L43400 65150 | 543400 | 6065150 | Pitman | Soil |
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| PM L43400 65900 | 543400 | 6065900 | Pitman | Soil |
| PM L43400 65950 | 543400 | 6065950 | Pitman | Soil |
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| Keap L43300 51645 | 551645 | 6043300 | Keaper | Soil |
| Keap L43300 51665 | 551665 | 6043300 | Keaper | Soil |
| Keap L43350 51705 | 551705 | 6043350 | Keaper | Soil |
| Keap L43350 51720 | 551720 | 6043350 | Keaper | Soil |
| Keap L43350 51735 | 551735 | 6043350 | Keaper | Soil |
| Keap L43350 51750 | 551750 | 6043350 | Keaper | Soil |
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| Keap L43350 51780 | 551780 | 6043350 | Keaper | Soil |
| Keap L43350 51795 | 551795 | 6043350 | Keaper | Soil |
| Keap L43350 51810 | 551810 | 6043350 | Keaper | Soil |
| Keap L43350 51825 | 551825 | 6043350 | Keaper | Soil |
| Keap L43350 51840 | 551840 | 6043350 | Keaper | Soil |
| Keap L43400 51455 | 551455 | 6043400 | Keaper | Soil |
| Keap L43400 51470 | 551470 | 6043400 | Keaper | Soil |
| Keap L43400 51485 | 551485 | 6043400 | Keaper | Soil |
| Keap L43400 51500 | 551500 | 6043400 | Keaper | Soil |
| Keap L43400 51515 | 551515 | 6043400 | Keaper | Soil |

| | | | | |
|-------------------|--------|---------|--------|------|
| Keap L43400 51530 | 551530 | 6043400 | Keaper | Soil |
| Keap L43400 51545 | 551545 | 6043400 | Keaper | Soil |
| Keap L43400 51560 | 551560 | 6043400 | Keaper | Soil |
| Keap L43400 51630 | 551630 | 6043400 | Keaper | Soil |
| Keap L43400 51645 | 551645 | 6043400 | Keaper | Soil |
| Keap L43400 51660 | 551660 | 6043400 | Keaper | Soil |
| Keap L43400 51675 | 551675 | 6043400 | Keaper | Soil |
| Keap L43400 51690 | 551690 | 6043400 | Keaper | Soil |
| Keap L43400 51705 | 551705 | 6043400 | Keaper | Soil |
| Keap L43400 51720 | 551720 | 6043400 | Keaper | Soil |
| Keap L43400 51735 | 551735 | 6043400 | Keaper | Soil |
| Keap L43400 51845 | 551845 | 6043400 | Keaper | Soil |
| Keap L43450 51630 | 551630 | 6043450 | Keaper | Soil |
| Keap L43450 51645 | 551645 | 6043450 | Keaper | Soil |
| Keap L43450 51660 | 551660 | 6043450 | Keaper | Soil |
| Keap L43450 51675 | 551675 | 6043450 | Keaper | Soil |
| Keap L43450 51690 | 551690 | 6043450 | Keaper | Soil |
| Keap L43450 51705 | 551705 | 6043450 | Keaper | Soil |
| Keap L43450 51720 | 551720 | 6043450 | Keaper | Soil |
| Keap L43450 51735 | 551735 | 6043450 | Keaper | Soil |
| Keap L43450 51750 | 551750 | 6043450 | Keaper | Soil |
| Keap L43450 51765 | 551765 | 6043450 | Keaper | Soil |
| Keap L43450 51780 | 551780 | 6043450 | Keaper | Soil |
| Keap L43450 51795 | 551795 | 6043450 | Keaper | Soil |
| Keap L43450 51810 | 551810 | 6043450 | Keaper | Soil |
| Keap L43450 51825 | 551825 | 6043450 | Keaper | Soil |
| Keap L43450 51840 | 551840 | 6043450 | Keaper | Soil |
| Keap L43500 51600 | 551600 | 6043500 | Keaper | Soil |
| Keap L43500 51615 | 551615 | 6043500 | Keaper | Soil |
| Keap L43500 51630 | 551630 | 6043500 | Keaper | Soil |
| Keap L43500 51645 | 551645 | 6043500 | Keaper | Soil |
| Keap L43500 51660 | 551660 | 6043500 | Keaper | Soil |
| Keap L43500 51675 | 551675 | 6043500 | Keaper | Soil |
| Keap L43500 51690 | 551690 | 6043500 | Keaper | Soil |
| Keap L43500 51705 | 551705 | 6043500 | Keaper | Soil |
| Keap L43500 51720 | 551720 | 6043500 | Keaper | Soil |
| Keap L43500 51735 | 551735 | 6043500 | Keaper | Soil |

Appendix 2

CERTIFICATE OF ANALYSIS BV SM15000106



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: Terracad Geoscience Services Ltd.
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Vancouver BC V6C 1T2 CANADA

Submitted By: Email Distribution List
Receiving Lab: Canada-Smithers
Received: October 29, 2015
Report Date: April 11, 2016
Page: 1 of 9

CERTIFICATE OF ANALYSIS

SMI15000106.1

CLIENT JOB INFORMATION

Project: Pitman/Keaper
Shipment ID:
P.O. Number
Number of Samples: 231

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Terracad Geoscience Services Ltd.
880 - 409 Granville St.
Vancouver BC V6C 1T2
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|--|--------------|---------------|-----|
| Dry at 60C | 230 | Dry at 60C | | | SMI |
| SS80 | 230 | Dry at 60C sieve 100g to -80 mesh | | | SMI |
| AQ300 | 230 | 1:1:1 Aqua Regia digestion ICP-ES analysis | 0.5 | Completed | VAN |
| SHP01 | 230 | Per sample shipping charges for branch shipments | | | SMI |

ADDITIONAL COMMENTS



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. Bureau Veritas 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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Vancouver BC V6C 1T2 CANADA

Project: Pitman/Keaper

Report Date: April 11, 2016

Page: 2 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte | Unit | MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | | |
| | | | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 | 1 | 1 |
| PM L42200 65000 | Soil | | <1 | 2 | <3 | 6 | <0.3 | 3 | <1 | 22 | 0.36 | <2 | <2 | 5 | <0.5 | <3 | <3 | 12 | 0.03 | 0.018 | 5 | 9 |
| PM L42200 65050 | Soil | | 3 | 19 | 8 | 70 | <0.3 | 15 | 6 | 317 | 3.81 | 20 | <2 | 6 | <0.5 | <3 | <3 | 49 | 0.05 | 0.152 | 5 | 30 |
| PM L42200 65100 | Soil | | 36 | 7 | <3 | 13 | <0.3 | 3 | 1 | 56 | 1.20 | 3 | <2 | 5 | <0.5 | <3 | <3 | 63 | <0.01 | 0.006 | 5 | 13 |
| PM L42200 65150 | Soil | | 11 | 10 | 11 | 85 | <0.3 | 9 | 5 | 301 | 6.12 | 13 | 2 | 5 | <0.5 | <3 | <3 | 70 | 0.03 | 0.075 | 5 | 33 |
| PM L42200 65200 | Soil | | 5 | 3 | 3 | 15 | <0.3 | 3 | <1 | 46 | 1.65 | <2 | 2 | 8 | <0.5 | <3 | <3 | 33 | 0.02 | 0.029 | 3 | 6 |
| PM L42200 65250 | Soil | | <1 | 1 | <3 | 3 | <0.3 | 3 | <1 | 50 | 0.40 | <2 | <2 | 2 | <0.5 | <3 | <3 | 8 | 0.03 | 0.018 | 5 | 6 |
| PM L42200 65300 | Soil | | 8 | 16 | 8 | 42 | <0.3 | 11 | 5 | 208 | 5.34 | 16 | <2 | 8 | <0.5 | <3 | <3 | 81 | 0.05 | 0.190 | 5 | 36 |
| PM L42200 65350 | Soil | | 47 | 4 | 5 | 9 | <0.3 | 3 | 1 | 95 | 2.75 | 3 | <2 | 5 | <0.5 | <3 | <3 | 74 | 0.02 | 0.023 | 11 | 12 |
| PM L42200 65400 | Soil | | 25 | 10 | 7 | 19 | 0.3 | 11 | 6 | 196 | 6.82 | <2 | <2 | 8 | <0.5 | <3 | <3 | 302 | 0.07 | 0.014 | 3 | 65 |
| PM L42200 65450 | Soil | | 35 | 49 | 5 | 113 | 0.6 | 22 | 20 | 547 | 10.64 | 3 | <2 | 8 | <0.5 | <3 | <3 | 317 | 0.08 | 0.064 | 2 | 64 |
| PM L42200 65500 | Soil | | 2 | 2 | <3 | 6 | <0.3 | 2 | <1 | 24 | 0.97 | <2 | <2 | 3 | <0.5 | <3 | <3 | 28 | <0.01 | 0.010 | 4 | 8 |
| PM L42300 65000 | Soil | | 5 | 13 | 7 | 29 | <0.3 | 6 | 4 | 430 | 3.83 | 11 | <2 | 5 | <0.5 | <3 | 6 | 60 | 0.03 | 0.073 | 5 | 20 |
| PM L42300 65050 | Soil | | 7 | 7 | 7 | 23 | <0.3 | 5 | 2 | 142 | 3.58 | 12 | <2 | 5 | <0.5 | <3 | <3 | 92 | 0.03 | 0.041 | 5 | 18 |
| PM L42300 65100 | Soil | | 3 | 20 | 8 | 71 | <0.3 | 16 | 7 | 316 | 4.02 | 18 | 3 | 7 | <0.5 | <3 | <3 | 52 | 0.06 | 0.099 | 8 | 27 |
| PM L42300 65150 | Soil | | 31 | 12 | 6 | 31 | <0.3 | 6 | 3 | 168 | 3.29 | 15 | <2 | 7 | <0.5 | <3 | <3 | 79 | 0.11 | 0.090 | 4 | 15 |
| PM L42300 65200 | Soil | | 146 | 18 | 11 | 118 | <0.3 | 15 | 12 | 419 | 5.69 | 20 | 4 | 11 | <0.5 | <3 | <3 | 57 | 0.07 | 0.064 | 9 | 38 |
| PM L42300 65250 | Soil | | 66 | 15 | 9 | 62 | <0.3 | 11 | 5 | 275 | 4.73 | 14 | <2 | 14 | <0.5 | <3 | <3 | 75 | 0.07 | 0.048 | 7 | 25 |
| PM L42300 65300 | Soil | | 14 | 17 | 7 | 81 | <0.3 | 12 | 7 | 245 | 4.56 | 16 | <2 | 8 | <0.5 | <3 | <3 | 83 | 0.04 | 0.039 | 6 | 30 |
| PM L42300 65350 | Soil | | 3 | 2 | <3 | 6 | <0.3 | 2 | 1 | 75 | 2.30 | <2 | <2 | 6 | <0.5 | <3 | <3 | 45 | 0.01 | 0.008 | 4 | 10 |
| PM L42300 65400 | Soil | | 5 | 4 | 4 | 11 | <0.3 | 8 | <1 | 30 | 0.34 | <2 | <2 | 13 | <0.5 | <3 | <3 | 10 | 0.03 | 0.028 | 3 | 16 |
| PM L42300 65450 | Soil | | 5 | 16 | 9 | 31 | <0.3 | 7 | 4 | 184 | 3.31 | <2 | <2 | 11 | <0.5 | <3 | <3 | 42 | 0.05 | 0.075 | 5 | 25 |
| PM L42300 65500 | Soil | | 8 | 10 | 5 | 17 | <0.3 | 5 | 2 | 86 | 3.27 | 15 | <2 | 7 | <0.5 | <3 | <3 | 97 | 0.02 | 0.031 | 6 | 19 |
| PM L42400 65150 | Soil | | 6 | 5 | 3 | 13 | <0.3 | 3 | 2 | 73 | 1.38 | 3 | <2 | 6 | <0.5 | <3 | <3 | 45 | 0.03 | 0.017 | 5 | 10 |
| PM L42400 65200 | Soil | | 15 | 11 | 4 | 87 | <0.3 | 14 | 11 | 348 | 8.08 | 3 | <2 | 9 | <0.5 | <3 | <3 | 152 | 0.05 | 0.177 | 9 | 49 |
| PM L42400 65250 | Soil | | 55 | 17 | 14 | 66 | <0.3 | 11 | 5 | 192 | 4.33 | 7 | 3 | 5 | <0.5 | <3 | 23 | 46 | 0.02 | 0.044 | 14 | 19 |
| PM L42400 65300 | Soil | | 4 | 7 | <3 | 11 | <0.3 | 3 | <1 | 35 | 0.85 | <2 | <2 | 2 | <0.5 | <3 | <3 | 14 | 0.02 | 0.009 | 10 | 6 |
| PM L42400 65350 | Soil | | 60 | 20 | 10 | 90 | <0.3 | 17 | 7 | 311 | 2.20 | 3 | <2 | 26 | <0.5 | <3 | <3 | 36 | 0.44 | 0.047 | 9 | 23 |
| PM L42400 65400 | Soil | | 5 | 2 | <3 | 24 | <0.3 | 3 | 2 | 180 | 1.35 | <2 | <2 | 9 | <0.5 | <3 | <3 | 39 | 0.05 | 0.015 | 7 | 7 |
| PM L42400 65450 | Soil | | 116 | 14 | 14 | 50 | <0.3 | 5 | 2 | 269 | 4.84 | 19 | <2 | 9 | <0.5 | <3 | <3 | 145 | 0.02 | 0.036 | 5 | 19 |
| PM L42400 65500 | Soil | | 38 | 4 | 7 | 22 | <0.3 | 4 | <1 | 33 | 1.03 | <2 | 3 | 5 | <0.5 | <3 | 19 | 14 | 0.01 | 0.027 | 7 | 7 |



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Project: Pitman/Keaper

Report Date: April 11, 2016

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| PM L42200 65000 | Soil | 0.02 | 14 | 0.011 | <20 | 0.46 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 |
| PM L42200 65050 | Soil | 0.40 | 45 | 0.041 | <20 | 4.68 | <0.01 | 0.03 | <2 | 0.06 | <1 | <5 | <5 |
| PM L42200 65100 | Soil | 0.01 | 26 | 0.035 | <20 | 0.29 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 |
| PM L42200 65150 | Soil | 0.29 | 56 | 0.050 | <20 | 3.42 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 |
| PM L42200 65200 | Soil | 0.04 | 38 | 0.010 | <20 | 1.46 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 13 |
| PM L42200 65250 | Soil | 0.02 | 11 | 0.003 | <20 | 0.31 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 |
| PM L42200 65300 | Soil | 0.39 | 57 | 0.085 | <20 | 2.30 | <0.01 | 0.04 | 5 | <0.05 | <1 | <5 | 9 |
| PM L42200 65350 | Soil | 0.04 | 61 | 0.022 | <20 | 1.26 | <0.01 | 0.05 | 3 | <0.05 | <1 | <5 | 10 |
| PM L42200 65400 | Soil | 0.14 | 33 | 0.287 | <20 | 1.19 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 |
| PM L42200 65450 | Soil | 1.24 | 63 | 0.120 | <20 | 4.28 | 0.01 | 0.09 | 9 | <0.05 | <1 | <5 | 14 |
| PM L42200 65500 | Soil | 0.01 | 14 | 0.013 | <20 | 0.36 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 |
| PM L42300 65000 | Soil | 0.19 | 51 | 0.020 | <20 | 2.05 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 |
| PM L42300 65050 | Soil | 0.13 | 20 | 0.089 | <20 | 0.98 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 9 |
| PM L42300 65100 | Soil | 0.55 | 57 | 0.036 | <20 | 4.28 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 |
| PM L42300 65150 | Soil | 0.08 | 49 | 0.030 | <20 | 0.95 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 |
| PM L42300 65200 | Soil | 0.39 | 118 | 0.024 | <20 | 6.73 | <0.01 | 0.04 | <2 | 0.10 | <1 | <5 | 8 |
| PM L42300 65250 | Soil | 0.33 | 123 | 0.062 | <20 | 1.78 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 9 |
| PM L42300 65300 | Soil | 0.48 | 78 | 0.061 | <20 | 3.26 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 9 |
| PM L42300 65350 | Soil | 0.02 | 15 | 0.079 | <20 | 0.18 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | <5 |
| PM L42300 65400 | Soil | 0.04 | 54 | 0.012 | <20 | 0.43 | <0.01 | 0.03 | <2 | 0.07 | <1 | <5 | <5 |
| PM L42300 65450 | Soil | 0.29 | 73 | 0.028 | <20 | 2.00 | <0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 10 |
| PM L42300 65500 | Soil | 0.05 | 49 | 0.052 | <20 | 1.05 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 13 |
| PM L42400 65150 | Soil | 0.03 | 26 | 0.026 | <20 | 0.48 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 |
| PM L42400 65200 | Soil | 0.51 | 123 | 0.033 | <20 | 3.05 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 12 |
| PM L42400 65250 | Soil | 0.22 | 145 | 0.009 | <20 | 3.37 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 6 |
| PM L42400 65300 | Soil | <0.01 | 18 | 0.004 | <20 | 0.36 | <0.01 | 0.06 | 7 | <0.05 | <1 | <5 | <5 |
| PM L42400 65350 | Soil | 0.52 | 240 | 0.041 | <20 | 1.92 | <0.01 | 0.05 | 3 | <0.05 | <1 | <5 | 7 |
| PM L42400 65400 | Soil | 0.55 | 92 | 0.100 | <20 | 0.80 | 0.02 | 0.20 | <2 | <0.05 | <1 | <5 | <5 |
| PM L42400 65450 | Soil | 0.05 | 66 | 0.160 | <20 | 1.08 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 16 |
| PM L42400 65500 | Soil | 0.03 | 34 | <0.001 | <20 | 1.55 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 |



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Project: Pitman/Keaper

Report Date: April 11, 2016

Page: 3 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|----|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | |
| | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 | 1 | 1 | |
| PM L42500 65150 | Soil | 79 | 4 | 7 | 28 | <0.3 | 4 | 3 | 123 | 2.08 | <2 | 3 | 6 | <0.5 | <3 | 9 | 44 | 0.05 | 0.023 | 8 | 10 |
| PM L42500 65200 | Soil | 69 | 19 | 8 | 71 | <0.3 | 15 | 7 | 223 | 4.58 | 16 | <2 | 5 | <0.5 | <3 | <3 | 72 | 0.03 | 0.045 | 6 | 31 |
| PM L42500 65250 | Soil | 30 | 8 | 5 | 35 | <0.3 | 5 | 3 | 882 | 2.32 | <2 | <2 | 21 | <0.5 | <3 | <3 | 29 | 0.26 | 0.059 | 12 | 12 |
| PM L42500 65300 | Soil | 69 | 8 | <3 | 22 | <0.3 | 3 | <1 | 26 | 1.04 | <2 | <2 | 3 | <0.5 | <3 | 5 | 23 | 0.02 | 0.026 | 3 | 6 |
| PM L42500 65350 | Soil | 221 | 12 | 12 | 59 | 0.3 | 6 | 4 | 243 | 4.88 | 10 | <2 | 18 | <0.5 | <3 | 6 | 67 | 0.37 | 0.072 | 7 | 19 |
| PM L42500 65400 | Soil | 6 | 2 | <3 | 13 | <0.3 | 2 | 1 | 121 | 1.83 | <2 | <2 | 3 | <0.5 | <3 | <3 | 24 | 0.01 | 0.022 | 3 | 5 |
| PM L42500 65440 | Soil | 24 | 18 | 11 | 60 | <0.3 | 10 | 6 | 221 | 4.12 | 12 | <2 | 6 | <0.5 | <3 | <3 | 52 | 0.06 | 0.036 | 4 | 24 |
| PM L42500 65600 | Soil | 23 | 13 | 6 | 37 | <0.3 | 7 | 5 | 181 | 3.97 | 6 | <2 | 13 | <0.5 | <3 | <3 | 93 | 0.10 | 0.031 | 4 | 25 |
| PM L42500 65650 | Soil | 41 | 5 | 4 | 34 | <0.3 | 7 | 6 | 180 | 3.24 | <2 | <2 | 50 | <0.5 | <3 | <3 | 48 | 0.37 | 0.019 | 6 | 20 |
| PM L42500 65700 | Soil | 19 | 15 | 8 | 37 | <0.3 | 6 | 4 | 144 | 7.99 | 23 | <2 | 7 | <0.5 | <3 | <3 | 96 | 0.04 | 0.043 | 4 | 33 |
| PM L42500 65750 | Soil | 17 | 8 | <3 | 24 | <0.3 | 3 | 2 | 42 | 1.80 | <2 | <2 | 5 | <0.5 | <3 | <3 | 36 | 0.02 | 0.014 | 9 | 7 |
| PM L42500 65800 | Soil | 21 | 14 | <3 | 21 | <0.3 | 4 | 2 | 75 | 4.28 | 16 | <2 | 5 | <0.5 | <3 | <3 | 108 | 0.03 | 0.033 | 5 | 18 |
| PM L42500 65850 | Soil | 20 | 6 | 3 | 12 | <0.3 | 3 | 1 | 82 | 2.07 | 6 | <2 | 13 | <0.5 | <3 | <3 | 87 | 0.04 | 0.012 | 6 | 11 |
| PM L42500 65900 | Soil | 6 | 11 | 6 | 45 | <0.3 | 5 | 3 | 180 | 8.82 | 21 | <2 | 10 | <0.5 | <3 | <3 | 83 | 0.07 | 0.045 | 5 | 32 |
| PM L42500 65950 | Soil | 7 | 4 | <3 | 8 | <0.3 | 2 | <1 | 71 | 1.94 | 2 | <2 | 5 | <0.5 | <3 | <3 | 57 | 0.03 | 0.006 | 5 | 12 |
| PM L42500 66000 | Soil | 8 | 15 | 13 | 60 | <0.3 | 8 | 6 | 356 | 6.97 | 23 | 2 | 5 | <0.5 | <3 | <3 | 74 | 0.04 | 0.047 | 4 | 36 |
| PM L42600 65050 | Soil | 31 | 12 | 22 | 47 | <0.3 | 8 | 5 | 603 | 1.72 | <2 | 8 | 30 | <0.5 | <3 | 6 | 18 | 0.16 | 0.062 | 14 | 13 |
| PM L42600 65100 | Soil | 179 | 10 | 5 | 63 | <0.3 | 11 | 6 | 1277 | 2.76 | 5 | <2 | 285 | <0.5 | <3 | <3 | 45 | 0.53 | 0.054 | 41 | 19 |
| PM L42600 65150 | Soil | 90 | 20 | 15 | 89 | <0.3 | 21 | 14 | 1061 | 4.73 | 11 | 3 | 105 | <0.5 | <3 | 4 | 63 | 0.37 | 0.062 | 63 | 31 |
| PM L42600 65200 | Soil | 56 | 6 | <3 | 12 | <0.3 | 3 | 1 | 36 | 0.91 | <2 | <2 | 28 | <0.5 | <3 | 4 | 24 | 0.05 | 0.012 | 6 | 7 |
| PM L42600 65250 | Soil | 39 | 17 | 15 | 96 | 0.6 | 14 | 10 | 986 | 4.91 | 13 | <2 | 33 | <0.5 | <3 | <3 | 67 | 0.41 | 0.092 | 41 | 36 |
| PM L42600 65300 | Soil | 25 | 15 | 7 | 51 | <0.3 | 9 | 6 | 275 | 3.36 | 12 | <2 | 33 | <0.5 | <3 | <3 | 58 | 0.38 | 0.075 | 12 | 21 |
| PM L42600 65350 | Soil | 3 | 3 | <3 | 11 | <0.3 | 2 | 1 | 61 | 1.57 | 2 | <2 | 4 | <0.5 | <3 | <3 | 45 | 0.03 | 0.023 | 8 | 10 |
| PM L42600 65400 | Soil | 3 | 10 | 7 | 40 | <0.3 | 7 | 4 | 194 | 4.30 | 13 | <2 | 4 | <0.5 | <3 | <3 | 67 | 0.03 | 0.107 | 4 | 24 |
| PM L42600 65450 | Soil | 6 | 15 | 15 | 65 | 1.2 | 9 | 6 | 222 | 3.99 | 13 | 2 | 6 | <0.5 | <3 | 5 | 63 | 0.04 | 0.057 | 8 | 23 |
| PM L42600 65600 | Soil | 4 | 4 | 6 | 10 | <0.3 | 5 | 3 | 77 | 1.31 | <2 | <2 | 38 | <0.5 | <3 | <3 | 63 | 0.22 | 0.015 | 3 | 14 |
| PM L42600 65650 | Soil | 18 | 17 | 4 | 64 | <0.3 | 8 | 7 | 234 | 4.76 | 6 | 2 | 7 | <0.5 | <3 | <3 | 75 | 0.06 | 0.029 | 4 | 23 |
| PM L42600 65700 | Soil | 87 | 22 | 7 | 36 | <0.3 | 7 | 4 | 152 | 4.56 | 9 | <2 | 9 | <0.5 | <3 | <3 | 73 | 0.07 | 0.037 | 4 | 20 |
| PM L42600 65750 | Soil | 42 | 5 | 9 | 49 | <0.3 | 5 | 4 | 156 | 5.95 | 6 | <2 | 38 | <0.5 | <3 | <3 | 39 | 0.23 | 0.052 | 5 | 18 |
| PM L42600 65800 | Soil | 10 | 7 | 6 | 28 | <0.3 | 3 | 2 | 112 | 3.14 | 5 | 2 | 11 | <0.5 | <3 | <3 | 76 | 0.08 | 0.025 | 7 | 11 |



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Project: Pitman/Keaper
Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| PM L42500 65150 | Soil | 0.23 | 182 | 0.007 | <20 | 1.55 | <0.01 | 0.06 | 4 | <0.05 | <1 | <5 | 10 | <5 |
| PM L42500 65200 | Soil | 0.34 | 115 | 0.034 | <20 | 3.54 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L42500 65250 | Soil | 0.06 | 780 | 0.006 | <20 | 1.05 | <0.01 | 0.08 | 4 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42500 65300 | Soil | 0.02 | 27 | 0.005 | <20 | 0.54 | <0.01 | 0.02 | 8 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42500 65350 | Soil | 0.17 | 466 | 0.025 | <20 | 1.86 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| PM L42500 65400 | Soil | 0.02 | 20 | 0.010 | <20 | 0.50 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L42500 65440 | Soil | 0.29 | 54 | 0.032 | <20 | 2.78 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42500 65600 | Soil | 0.24 | 59 | 0.112 | <20 | 2.53 | <0.01 | 0.03 | 4 | <0.05 | <1 | <5 | 9 | <5 |
| PM L42500 65650 | Soil | 0.26 | 227 | 0.017 | <20 | 2.55 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42500 65700 | Soil | 0.22 | 34 | 0.052 | <20 | 2.90 | <0.01 | 0.03 | 3 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42500 65750 | Soil | 0.04 | 17 | 0.005 | <20 | 0.78 | <0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42500 65800 | Soil | 0.03 | 13 | 0.058 | <20 | 0.76 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L42500 65850 | Soil | 0.02 | 38 | 0.060 | <20 | 0.46 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L42500 65900 | Soil | 0.12 | 25 | 0.065 | <20 | 1.80 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42500 65950 | Soil | 0.02 | 13 | 0.068 | <20 | 0.27 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42500 66000 | Soil | 0.27 | 39 | 0.076 | <20 | 3.97 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65050 | Soil | 0.26 | 390 | 0.001 | <20 | 1.19 | <0.01 | 0.20 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L42600 65100 | Soil | 0.25 | 913 | 0.009 | <20 | 2.10 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L42600 65150 | Soil | 0.44 | 715 | 0.013 | <20 | 2.90 | <0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42600 65200 | Soil | 0.02 | 57 | 0.009 | <20 | 0.36 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65250 | Soil | 0.54 | 356 | 0.143 | <20 | 2.98 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65300 | Soil | 0.28 | 481 | 0.022 | <20 | 1.58 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42600 65350 | Soil | 0.04 | 16 | 0.030 | <20 | 0.40 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42600 65400 | Soil | 0.20 | 37 | 0.034 | <20 | 2.59 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L42600 65450 | Soil | 0.28 | 99 | 0.025 | <20 | 2.84 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L42600 65600 | Soil | 0.11 | 43 | 0.085 | <20 | 0.77 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65650 | Soil | 0.23 | 74 | 0.031 | <20 | 4.80 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 9 | 6 |
| PM L42600 65700 | Soil | 0.21 | 33 | 0.057 | <20 | 2.19 | <0.01 | 0.03 | 3 | <0.05 | <1 | <5 | 10 | <5 |
| PM L42600 65750 | Soil | 0.17 | 81 | 0.011 | <20 | 2.54 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65800 | Soil | 0.07 | 58 | 0.035 | <20 | 2.00 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 13 | <5 |



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Project: Pitman/Keaper
Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte | Unit | MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-----------------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr |
| | | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | | |
| | | | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 | 1 | 1 |
| PM L42600 65850 | Soil | | <1 | 3 | 5 | 54 | <0.3 | 5 | 4 | 420 | 2.61 | <2 | <2 | 36 | <0.5 | <3 | <3 | 47 | 0.31 | 0.029 | 2 | 10 |
| PM L42600 65900 | Soil | | 1 | 21 | 9 | 83 | <0.3 | 18 | 9 | 346 | 3.97 | 21 | 2 | 8 | <0.5 | <3 | <3 | 44 | 0.06 | 0.042 | 3 | 29 |
| PM L42600 65950 | Soil | | 1 | 14 | 5 | 31 | <0.3 | 6 | 3 | 137 | 4.20 | 17 | <2 | 7 | <0.5 | <3 | <3 | 89 | 0.07 | 0.023 | 6 | 20 |
| PM L42600 66000 | Soil | | <1 | <1 | 8 | 6 | <0.3 | 4 | <1 | 61 | 0.98 | <2 | <2 | 16 | <0.5 | <3 | <3 | 37 | 0.16 | 0.035 | 2 | 28 |
| PM L42700 65150 | Soil | | 62 | 26 | 8 | 59 | <0.3 | 12 | 7 | 290 | 6.16 | 25 | 2 | 11 | <0.5 | <3 | <3 | 69 | 0.05 | 0.095 | 6 | 31 |
| PM L42700 65200 | Soil | | 73 | 5 | 4 | 37 | <0.3 | 3 | 3 | 87 | 1.95 | <2 | 2 | 5 | <0.5 | <3 | 3 | 39 | 0.02 | 0.032 | 14 | 5 |
| PM L42700 65250 | Soil | | 42 | 18 | 13 | 98 | 0.6 | 6 | 8 | 561 | 3.92 | 3 | 2 | 6 | <0.5 | <3 | 5 | 59 | 0.06 | 0.104 | 11 | 15 |
| PM L42700 65300 | Soil | | 3 | 30 | 7 | 109 | <0.3 | 21 | 11 | 497 | 4.24 | 19 | 3 | 6 | <0.5 | <3 | <3 | 55 | 0.05 | 0.098 | 9 | 26 |
| PM L42700 65350 | Soil | | 18 | 57 | 10 | 114 | <0.3 | 25 | 16 | 1289 | 4.02 | 21 | <2 | 13 | <0.5 | <3 | <3 | 55 | 0.16 | 0.098 | 16 | 28 |
| PM L42700 65400 | Soil | | 6 | 111 | 13 | 122 | 0.6 | 17 | 13 | 689 | 5.29 | 23 | <2 | 6 | <0.5 | <3 | 8 | 56 | 0.04 | 0.119 | 5 | 29 |
| PM L42700 65450 | Soil | | 3 | 14 | 8 | 84 | <0.3 | 11 | 7 | 313 | 4.70 | 15 | <2 | 5 | <0.5 | <3 | <3 | 75 | 0.03 | 0.065 | 6 | 27 |
| PM L43100 64925 | Soil | | 27 | 18 | 14 | 64 | <0.3 | 12 | 5 | 160 | 4.79 | 7 | 4 | 5 | <0.5 | <3 | <3 | 66 | 0.03 | 0.132 | 8 | 22 |
| PM L43100 64950 | Soil | | 4 | 10 | 6 | 46 | <0.3 | 6 | 4 | 145 | 4.28 | 17 | <2 | 6 | <0.5 | <3 | <3 | 63 | 0.04 | 0.102 | 4 | 23 |
| PM L43100 65000 | Soil | | 2 | 6 | 6 | 27 | <0.3 | 3 | 2 | 92 | 3.98 | 8 | <2 | 4 | <0.5 | <3 | <3 | 69 | 0.02 | 0.148 | 4 | 19 |
| PM L43100 65050 | Soil | | 3 | 20 | 6 | 54 | <0.3 | 17 | 7 | 279 | 3.63 | 15 | 3 | 5 | <0.5 | <3 | <3 | 51 | 0.04 | 0.091 | 3 | 26 |
| PM L43100 65100 | Soil | | 19 | 11 | 8 | 59 | <0.3 | 8 | 5 | 196 | 5.16 | 14 | 2 | 4 | <0.5 | <3 | <3 | 79 | 0.03 | 0.147 | 4 | 27 |
| PM L43100 65150 | Soil | | 5 | 27 | 6 | 73 | <0.3 | 18 | 9 | 319 | 4.05 | 18 | <2 | 6 | <0.5 | <3 | <3 | 56 | 0.04 | 0.085 | 4 | 28 |
| PM L43100 65200 | Soil | | 71 | 16 | 8 | 60 | <0.3 | 10 | 6 | 196 | 6.26 | 19 | <2 | 5 | <0.5 | <3 | <3 | 74 | 0.05 | 0.135 | 5 | 27 |
| PM L43100 65250 | Soil | | 10 | 16 | 7 | 85 | <0.3 | 11 | 6 | 211 | 3.81 | 13 | <2 | 4 | <0.5 | <3 | <3 | 60 | 0.04 | 0.086 | 4 | 24 |
| PM L43100 65300 | Soil | | 23 | 13 | 8 | 63 | <0.3 | 10 | 5 | 170 | 4.68 | 13 | 3 | 3 | <0.5 | <3 | <3 | 70 | 0.02 | 0.065 | 3 | 27 |
| PM L43100 65350 | Soil | | 8 | 6 | 6 | 49 | <0.3 | 3 | 5 | 215 | 5.49 | 3 | 3 | 4 | <0.5 | <3 | <3 | 143 | 0.03 | 0.105 | 6 | 15 |
| PM L43100 65400 | Soil | | 3 | 5 | 5 | 108 | <0.3 | 6 | 10 | 521 | 5.48 | 5 | <2 | 4 | <0.5 | <3 | <3 | 111 | 0.09 | 0.061 | 3 | 16 |
| PM L43100 65450 | Soil | | 7 | 16 | 5 | 116 | <0.3 | 13 | 7 | 268 | 4.38 | 13 | <2 | 7 | <0.5 | <3 | <3 | 58 | 0.07 | 0.078 | 5 | 24 |
| PM L43100 65500 | Soil | | 40 | 11 | 5 | 32 | <0.3 | 7 | 4 | 172 | 3.96 | 13 | <2 | 12 | <0.5 | <3 | <3 | 73 | 0.14 | 0.023 | 4 | 19 |
| PM L43100 65550 | Soil | | 133 | 33 | 13 | 88 | <0.3 | 20 | 19 | 4309 | 4.75 | 15 | <2 | 29 | <0.5 | <3 | <3 | 57 | 0.50 | 0.066 | 38 | 29 |
| PM L43100 65600 | Soil | | 77 | 9 | 7 | 34 | <0.3 | 8 | 5 | 181 | 4.40 | 10 | <2 | 13 | <0.5 | <3 | <3 | 73 | 0.15 | 0.025 | 5 | 19 |
| PM L43100 65650 | Soil | | 12 | 8 | 6 | 27 | <0.3 | 4 | 3 | 131 | 4.51 | 11 | <2 | 13 | <0.5 | <3 | <3 | 79 | 0.20 | 0.020 | 7 | 16 |
| PM L43100 65700 | Soil | | 2 | 27 | 8 | 75 | <0.3 | 17 | 9 | 314 | 4.65 | 18 | <2 | 6 | <0.5 | <3 | <3 | 58 | 0.07 | 0.041 | 6 | 25 |
| PM L43100 65750 | Soil | | 2 | 10 | 5 | 25 | <0.3 | 4 | 4 | 167 | 2.61 | 5 | <2 | 10 | <0.5 | <3 | <3 | 62 | 0.09 | 0.029 | 6 | 10 |
| PM L43100 65800 | Soil | | 1 | 13 | 6 | 33 | <0.3 | 7 | 3 | 138 | 4.51 | 16 | <2 | 4 | <0.5 | <3 | <3 | 82 | 0.04 | 0.075 | 3 | 22 |



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Project: Pitman/Keaper

Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| PM L42600 65850 | Soil | 0.74 | 27 | 0.105 | <20 | 2.01 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 8 | 5 |
| PM L42600 65900 | Soil | 0.42 | 56 | 0.034 | <20 | 4.18 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42600 65950 | Soil | 0.18 | 48 | 0.058 | <20 | 1.36 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L42600 66000 | Soil | 0.09 | 28 | 0.192 | <20 | 0.87 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42700 65150 | Soil | 0.37 | 95 | 0.054 | <20 | 3.44 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L42700 65200 | Soil | 0.04 | 19 | 0.008 | <20 | 1.05 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| PM L42700 65250 | Soil | 0.25 | 136 | 0.013 | <20 | 2.33 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L42700 65300 | Soil | 0.61 | 86 | 0.048 | <20 | 3.65 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | 6 |
| PM L42700 65350 | Soil | 0.71 | 160 | 0.033 | <20 | 2.94 | <0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 6 | 5 |
| PM L42700 65400 | Soil | 0.43 | 61 | 0.026 | <20 | 4.05 | <0.01 | 0.04 | 2 | <0.05 | <1 | <5 | <5 | 7 |
| PM L42700 65450 | Soil | 0.32 | 67 | 0.052 | <20 | 3.39 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 7 | 6 |
| PM L43100 64925 | Soil | 0.23 | 121 | 0.015 | <20 | 4.13 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| PM L43100 64950 | Soil | 0.22 | 64 | 0.018 | <20 | 2.39 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43100 65000 | Soil | 0.10 | 25 | 0.023 | <20 | 1.91 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43100 65050 | Soil | 0.48 | 76 | 0.036 | <20 | 3.64 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43100 65100 | Soil | 0.16 | 67 | 0.036 | <20 | 4.28 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43100 65150 | Soil | 0.60 | 75 | 0.038 | <20 | 3.73 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43100 65200 | Soil | 0.21 | 105 | 0.032 | <20 | 4.23 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43100 65250 | Soil | 0.25 | 74 | 0.048 | <20 | 3.20 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43100 65300 | Soil | 0.23 | 52 | 0.038 | <20 | 3.23 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43100 65350 | Soil | 0.28 | 24 | 0.106 | <20 | 1.32 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L43100 65400 | Soil | 0.91 | 40 | 0.198 | <20 | 2.05 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | <5 | 10 |
| PM L43100 65450 | Soil | 0.34 | 122 | 0.033 | <20 | 3.24 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43100 65500 | Soil | 0.22 | 184 | 0.051 | <20 | 1.21 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43100 65550 | Soil | 0.39 | 575 | 0.046 | <20 | 3.94 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 8 | 5 |
| PM L43100 65600 | Soil | 0.25 | 306 | 0.049 | <20 | 1.55 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43100 65650 | Soil | 0.13 | 392 | 0.072 | <20 | 1.23 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43100 65700 | Soil | 0.46 | 85 | 0.049 | <20 | 3.03 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43100 65750 | Soil | 0.09 | 113 | 0.044 | <20 | 0.89 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43100 65800 | Soil | 0.13 | 30 | 0.036 | <20 | 1.52 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |



CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|----|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | |
| PM L43100 65850 | Soil | 1 | 18 | 6 | 100 | <0.3 | 13 | 7 | 347 | 3.76 | 14 | 3 | 5 | <0.5 | <3 | <3 | 49 | 0.05 | 0.128 | 4 | 28 |
| PM L43200 64870 | Soil | 15 | 8 | 4 | 30 | <0.3 | 8 | 4 | 249 | 2.68 | 4 | <2 | 5 | <0.5 | <3 | <3 | 42 | 0.03 | 0.058 | 6 | 15 |
| PM L43200 64900 | Soil | 12 | 11 | 8 | 43 | <0.3 | 10 | 5 | 163 | 4.69 | 10 | <2 | 6 | <0.5 | <3 | <3 | 71 | 0.03 | 0.121 | 5 | 27 |
| PM L43200 64950 | Soil | 82 | 9 | 8 | 48 | <0.3 | 9 | 5 | 168 | 5.19 | 11 | <2 | 18 | <0.5 | <3 | <3 | 80 | 0.10 | 0.068 | 6 | 25 |
| PM L43200 65000 | Soil | 15 | 8 | 9 | 42 | <0.3 | 6 | 3 | 117 | 5.25 | 13 | <2 | 5 | <0.5 | <3 | <3 | 87 | 0.03 | 0.096 | 4 | 27 |
| PM L43200 65050 | Soil | 8 | 8 | 7 | 56 | <0.3 | 6 | 3 | 106 | 2.97 | 6 | <2 | 4 | <0.5 | <3 | <3 | 56 | 0.03 | 0.060 | 3 | 21 |
| PM L43200 65100 | Soil | 30 | 6 | 8 | 71 | <0.3 | 8 | 5 | 319 | 4.83 | 10 | <2 | 7 | <0.5 | <3 | <3 | 73 | 0.04 | 0.100 | 7 | 25 |
| PM L43200 65150 | Soil | 14 | 4 | 5 | 15 | <0.3 | 2 | 1 | 97 | 1.84 | 3 | 2 | 5 | <0.5 | <3 | <3 | 43 | 0.03 | 0.030 | 5 | 7 |
| PM L43200 65200 | Soil | 98 | 7 | 7 | 61 | <0.3 | 7 | 4 | 803 | 3.13 | 4 | <2 | 37 | <0.5 | <3 | <3 | 43 | 0.32 | 0.058 | 21 | 15 |
| PM L43200 65250 | Soil | 14 | 4 | 3 | 27 | <0.3 | 2 | 2 | 68 | 1.69 | <2 | 3 | 12 | <0.5 | <3 | 6 | 28 | 0.16 | 0.029 | 5 | 5 |
| PM L43200 65300 | Soil | 10 | 11 | 5 | 64 | <0.3 | 5 | 5 | 366 | 3.64 | <2 | 2 | 4 | <0.5 | <3 | <3 | 64 | 0.04 | 0.157 | 7 | 14 |
| PM L43200 65350 | Soil | 23 | 36 | 3 | 319 | 0.4 | 25 | 23 | 612 | 6.20 | 9 | 3 | 11 | <0.5 | <3 | <3 | 144 | 0.10 | 0.070 | 8 | 43 |
| PM L43200 65400 | Soil | 22 | 4 | 5 | 105 | <0.3 | 6 | 4 | 878 | 3.09 | <2 | 3 | 17 | <0.5 | <3 | <3 | 35 | 0.23 | 0.046 | 8 | 12 |
| PM L43200 65450 | Soil | 3 | 7 | 8 | 58 | <0.3 | 6 | 4 | 363 | 4.20 | 9 | <2 | 3 | <0.5 | <3 | <3 | 68 | 0.03 | 0.376 | 3 | 21 |
| PM L43200 65500 | Soil | 14 | 19 | 7 | 82 | <0.3 | 16 | 13 | 630 | 3.94 | 13 | <2 | 16 | <0.5 | <3 | <3 | 53 | 0.19 | 0.091 | 5 | 31 |
| PM L43200 65550 | Soil | 10 | 7 | 6 | 61 | <0.3 | 6 | 4 | 548 | 2.28 | <2 | 3 | 40 | 0.5 | <3 | <3 | 37 | 0.51 | 0.047 | 5 | 13 |
| PM L43200 65600 | Soil | 13 | 8 | 4 | 32 | <0.3 | 3 | 1 | 132 | 2.03 | <2 | <2 | 7 | <0.5 | <3 | <3 | 27 | 0.04 | 0.020 | 14 | 6 |
| PM L43200 65650 | Soil | 14 | 9 | 6 | 31 | <0.3 | 6 | 3 | 136 | 5.29 | 14 | <2 | 13 | <0.5 | <3 | <3 | 87 | 0.19 | 0.037 | 5 | 22 |
| PM L43200 65700 | Soil | 4 | 13 | 11 | 99 | <0.3 | 15 | 7 | 318 | 5.14 | 12 | 2 | 3 | <0.5 | 4 | <3 | 56 | 0.04 | 0.085 | 5 | 19 |
| PM L43200 65750 | Soil | <1 | 3 | 3 | 4 | <0.3 | 2 | <1 | 17 | 0.51 | <2 | <2 | 2 | <0.5 | <3 | <3 | 18 | 0.02 | 0.025 | 3 | 4 |
| PM L43200 65800 | Soil | 6 | 6 | 8 | 22 | <0.3 | 4 | 2 | 85 | 3.79 | 10 | <2 | 5 | <0.5 | <3 | <3 | 84 | 0.06 | 0.040 | 3 | 11 |
| PM L43200 65850 | Soil | 5 | 3 | 6 | 8 | <0.3 | 3 | 1 | 42 | 1.55 | 3 | <2 | 5 | <0.5 | <3 | <3 | 37 | 0.05 | 0.015 | 3 | 9 |
| Keap L43300 51455 | Soil | 3 | 27 | 17 | 44 | 0.8 | 7 | 6 | 719 | 3.86 | 4 | <2 | 11 | 0.5 | <3 | <3 | 79 | 0.21 | 0.128 | 6 | 17 |
| Keap L43300 51470 | Soil | 3 | 29 | 26 | 65 | 0.3 | 10 | 7 | 546 | 5.55 | 8 | <2 | 9 | <0.5 | 5 | <3 | 87 | 0.16 | 0.248 | 3 | 21 |
| Keap L43300 51485 | Soil | 2 | 58 | 49 | 84 | 14.3 | 11 | 10 | 530 | 3.03 | 4 | <2 | 16 | 0.6 | 4 | <3 | 49 | 0.21 | 0.066 | 5 | 18 |
| Keap L43300 51500 | Soil | 2 | 54 | 33 | 59 | 1.5 | 12 | 7 | 272 | 3.27 | 4 | <2 | 13 | 0.6 | 3 | <3 | 51 | 0.15 | 0.055 | 5 | 23 |
| Keap L43300 51515 | Soil | 4 | 17 | 32 | 52 | 1.8 | 8 | 3 | 846 | 2.87 | 7 | <2 | 8 | <0.5 | 5 | <3 | 70 | 0.31 | 0.084 | 4 | 15 |
| Keap L43300 51530 | Soil | 11 | 17 | 38 | 110 | 1.9 | 7 | 4 | 428 | 3.07 | 7 | <2 | 9 | <0.5 | 7 | <3 | 68 | 0.28 | 0.075 | 8 | 12 |
| Keap L43300 51545 | Soil | 9 | 22 | 26 | 163 | 2.5 | 9 | 11 | 7425 | 2.86 | 13 | <2 | 45 | 3.2 | 7 | <3 | 28 | 1.45 | 0.142 | 15 | 18 |
| Keap L43300 51560 | Soil | 11 | 24 | 11 | 69 | 1.7 | 12 | 5 | 225 | 3.60 | 23 | 4 | 94 | 1.1 | 5 | <3 | 85 | 3.21 | 0.073 | 7 | 29 |



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Project: Pitman/Keaper

Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| PM L43100 65850 | Soil | 0.27 | 52 | 0.042 | <20 | 4.35 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 6 | <5 |
| PM L43200 64870 | Soil | 0.19 | 59 | 0.023 | <20 | 1.65 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L43200 64900 | Soil | 0.19 | 87 | 0.023 | <20 | 2.77 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43200 64950 | Soil | 0.22 | 411 | 0.033 | <20 | 2.39 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43200 65000 | Soil | 0.13 | 74 | 0.024 | <20 | 2.64 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43200 65050 | Soil | 0.11 | 90 | 0.037 | <20 | 2.87 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L43200 65100 | Soil | 0.22 | 364 | 0.055 | <20 | 1.75 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43200 65150 | Soil | 0.04 | 50 | 0.025 | <20 | 0.91 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L43200 65200 | Soil | 0.19 | 649 | 0.018 | <20 | 1.56 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43200 65250 | Soil | 0.04 | 151 | 0.010 | <20 | 0.81 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43200 65300 | Soil | 0.18 | 57 | 0.017 | <20 | 1.83 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43200 65350 | Soil | 1.34 | 155 | 0.105 | <20 | 4.78 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 5 | 12 |
| PM L43200 65400 | Soil | 0.58 | 497 | 0.033 | <20 | 1.82 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43200 65450 | Soil | 0.17 | 37 | 0.056 | <20 | 1.92 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43200 65500 | Soil | 0.49 | 142 | 0.121 | <20 | 3.71 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43200 65550 | Soil | 0.13 | 300 | 0.004 | <20 | 1.12 | <0.01 | 0.10 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43200 65600 | Soil | 0.02 | 204 | 0.007 | <20 | 0.95 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| PM L43200 65650 | Soil | 0.14 | 225 | 0.038 | <20 | 1.66 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| PM L43200 65700 | Soil | 0.32 | 102 | 0.054 | <20 | 3.89 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 15 | <5 |
| PM L43200 65750 | Soil | 0.01 | 28 | 0.013 | <20 | 0.51 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43200 65800 | Soil | 0.05 | 37 | 0.056 | <20 | 0.79 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 12 | <5 |
| PM L43200 65850 | Soil | 0.04 | 37 | 0.020 | <20 | 0.61 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| Keap L43300 51455 | Soil | 0.30 | 33 | 0.103 | <20 | 1.76 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 14 | <5 |
| Keap L43300 51470 | Soil | 0.33 | 30 | 0.073 | <20 | 1.23 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 16 | <5 |
| Keap L43300 51485 | Soil | 0.62 | 60 | 0.033 | <20 | 2.55 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| Keap L43300 51500 | Soil | 0.47 | 50 | 0.053 | <20 | 2.69 | <0.01 | 0.02 | <2 | 0.05 | <1 | <5 | 7 | <5 |
| Keap L43300 51515 | Soil | 0.14 | 33 | 0.060 | <20 | 0.68 | <0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| Keap L43300 51530 | Soil | 0.05 | 62 | 0.035 | <20 | 0.67 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| Keap L43300 51545 | Soil | 0.10 | 448 | 0.019 | <20 | 1.65 | <0.01 | 0.06 | <2 | 0.11 | <1 | <5 | 6 | <5 |
| Keap L43300 51560 | Soil | 0.10 | 296 | 0.013 | <20 | 0.98 | <0.01 | 0.02 | <2 | 0.09 | <1 | <5 | <5 | <5 |



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Project: Pitman/Keaper

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|----|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | |
| Keap L43300 51575 | Soil | 18 | 34 | 50 | 75 | 3.4 | 10 | 6 | 554 | 4.88 | 24 | <2 | 11 | 0.7 | 6 | <3 | 126 | 0.58 | 0.041 | 9 | 33 |
| Keap L43300 51590 | Soil | 5 | 40 | 43 | 84 | 4.7 | 9 | 5 | 482 | 4.81 | 10 | <2 | 18 | 0.9 | 5 | <3 | 80 | 0.27 | 0.109 | 9 | 31 |
| Keap L43300 51605 | Soil | 2 | 56 | 35 | 97 | 2.8 | 10 | 7 | 483 | 3.07 | 12 | 3 | 38 | 1.1 | 3 | <3 | 39 | 0.51 | 0.149 | 10 | 21 |
| Keap L43300 51620 | Soil | 8 | 16 | 18 | 40 | 0.3 | 4 | 3 | 146 | 3.88 | 4 | <2 | 6 | <0.5 | <3 | <3 | 77 | 0.13 | 0.049 | 9 | 11 |
| Keap L43300 51635 | Soil | 3 | 48 | 11 | 68 | <0.3 | 8 | 12 | 601 | 2.61 | 5 | 2 | 32 | 0.7 | <3 | <3 | 58 | 0.57 | 0.051 | 8 | 15 |
| Keap L43300 51645 | Soil | 5 | 18 | 12 | 24 | <0.3 | 4 | 2 | 91 | 3.55 | 4 | <2 | 11 | 0.6 | <3 | <3 | 58 | 0.40 | 0.133 | 5 | 17 |
| Keap L43300 51665 | Soil | 3 | 43 | 6 | 76 | <0.3 | 9 | 8 | 405 | 2.68 | 4 | <2 | 19 | 0.8 | <3 | <3 | 53 | 0.24 | 0.047 | 7 | 16 |
| PM L43300 64700 | Soil | 11 | 25 | 8 | 55 | <0.3 | 21 | 10 | 272 | 3.66 | 12 | <2 | 11 | <0.5 | <3 | <3 | 58 | 0.07 | 0.034 | 5 | 27 |
| PM L43300 64750 | Soil | 6 | 24 | 6 | 53 | <0.3 | 23 | 9 | 359 | 3.22 | 7 | <2 | 14 | <0.5 | 3 | <3 | 52 | 0.10 | 0.025 | 10 | 24 |
| PM L43300 64800 | Soil | 12 | 11 | 7 | 38 | <0.3 | 13 | 4 | 197 | 3.34 | 7 | <2 | 13 | <0.5 | <3 | <3 | 58 | 0.09 | 0.026 | 4 | 19 |
| PM L43300 64850 | Soil | 3 | 27 | 5 | 61 | <0.3 | 23 | 9 | 298 | 3.24 | 11 | 2 | 8 | <0.5 | 3 | <3 | 49 | 0.09 | 0.060 | 4 | 21 |
| PM L43300 64900 | Soil | 5 | 29 | 9 | 79 | <0.3 | 32 | 11 | 451 | 4.18 | 14 | <2 | 6 | <0.5 | 4 | <3 | 57 | 0.05 | 0.071 | 4 | 28 |
| PM L43300 64950 | Soil | 35 | 22 | 10 | 42 | <0.3 | 3 | 2 | 71 | 2.59 | <2 | 6 | 5 | <0.5 | <3 | <3 | 34 | 0.03 | 0.106 | 14 | 5 |
| PM L43300 65000 | Soil | 3 | 3 | 5 | 16 | <0.3 | 3 | 2 | 66 | 2.24 | 4 | <2 | 4 | <0.5 | <3 | <3 | 46 | 0.02 | 0.067 | 5 | 8 |
| PM L43300 65050 | Soil | 24 | 18 | 9 | 87 | <0.3 | 20 | 9 | 353 | 4.74 | 11 | <2 | 8 | <0.5 | 3 | <3 | 60 | 0.07 | 0.212 | 6 | 24 |
| PM L43300 65100 | Soil | 36 | 12 | 6 | 64 | <0.3 | 14 | 8 | 692 | 3.75 | 7 | <2 | 11 | <0.5 | <3 | <3 | 54 | 0.06 | 0.055 | 7 | 20 |
| PM L43300 65150 | Soil | 91 | 11 | 8 | 57 | <0.3 | 10 | 8 | 486 | 4.14 | 9 | <2 | 38 | <0.5 | <3 | <3 | 61 | 0.21 | 0.052 | 26 | 17 |
| PM L43300 65200 | Soil | 64 | 12 | 8 | 97 | <0.3 | 17 | 10 | 1168 | 3.85 | 8 | <2 | 30 | <0.5 | <3 | <3 | 55 | 0.28 | 0.059 | 47 | 25 |
| PM L43300 65250 | Soil | 43 | 13 | 13 | 67 | <0.3 | 15 | 8 | 540 | 3.77 | 7 | 3 | 83 | <0.5 | <3 | <3 | 47 | 0.27 | 0.071 | 34 | 19 |
| PM L43300 65300 | Soil | 38 | 27 | 17 | 66 | <0.3 | 15 | 8 | 237 | 4.28 | 7 | 6 | 26 | <0.5 | <3 | <3 | 49 | 0.14 | 0.132 | 9 | 16 |
| PM L43300 65350 | Soil | 7 | 3 | 4 | 10 | <0.3 | 2 | <1 | 36 | 0.78 | <2 | <2 | 5 | <0.5 | <3 | <3 | 16 | 0.03 | 0.020 | 6 | 4 |
| PM L43300 65400 | Soil | 27 | 28 | 5 | 37 | <0.3 | 4 | 2 | 95 | 2.00 | 2 | 4 | 11 | <0.5 | <3 | <3 | 20 | 0.07 | 0.027 | 19 | 6 |
| PM L43300 65450 | Soil | 63 | 33 | 10 | 77 | <0.3 | 13 | 13 | 2085 | 3.63 | 10 | 3 | 36 | 0.6 | <3 | <3 | 53 | 0.45 | 0.117 | 50 | 20 |
| PM L43300 65500 | Soil | 15 | 23 | 8 | 86 | <0.3 | 15 | 8 | 353 | 4.59 | 17 | 2 | 9 | 0.5 | 5 | <3 | 47 | 0.12 | 0.176 | 5 | 20 |
| PM L43300 65550 | Soil | 22 | 9 | 13 | 58 | <0.3 | 7 | 8 | 1500 | 3.64 | <2 | <2 | 40 | 0.6 | <3 | 38 | 59 | 0.42 | 0.078 | 19 | 16 |
| PM L43300 65600 | Soil | 12 | 21 | 10 | 49 | <0.3 | 10 | 8 | 1345 | 3.99 | 5 | 4 | 45 | <0.5 | <3 | 4 | 35 | 0.47 | 0.115 | 36 | 16 |
| PM L43300 65650 | Soil | 32 | 11 | 9 | 56 | <0.3 | 7 | 5 | 171 | 4.34 | 10 | <2 | 5 | <0.5 | 3 | <3 | 52 | 0.04 | 0.070 | 8 | 15 |
| PM L43300 65700 | Soil | 9 | 12 | 13 | 44 | <0.3 | 5 | 34 | 1474 | 3.33 | 5 | <2 | 7 | <0.5 | 3 | <3 | 37 | 0.08 | 0.130 | 9 | 9 |
| PM L43300 65750 | Soil | 3 | 22 | 8 | 96 | <0.3 | 15 | 10 | 378 | 3.73 | 13 | <2 | 6 | <0.5 | <3 | <3 | 60 | 0.05 | 0.070 | 7 | 22 |
| PM L43300 65800 | Soil | 19 | 25 | 9 | 46 | <0.3 | 7 | 4 | 3324 | 3.17 | 9 | <2 | 39 | 0.7 | <3 | <3 | 59 | 0.50 | 0.064 | 16 | 15 |

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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Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| Keap L43300 51575 | Soil | 0.13 | 89 | 0.059 | <20 | 1.78 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 17 | <5 |
| Keap L43300 51590 | Soil | 0.27 | 66 | 0.043 | <20 | 4.31 | <0.01 | 0.02 | <2 | 0.05 | <1 | <5 | 13 | <5 |
| Keap L43300 51605 | Soil | 0.37 | 96 | 0.028 | <20 | 6.94 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | 5 |
| Keap L43300 51620 | Soil | 0.07 | 68 | 0.019 | <20 | 2.86 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 14 | <5 |
| Keap L43300 51635 | Soil | 0.27 | 95 | 0.041 | <20 | 4.88 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| Keap L43300 51645 | Soil | 0.13 | 60 | 0.053 | <20 | 4.78 | <0.01 | 0.11 | <2 | 0.07 | <1 | <5 | 11 | <5 |
| Keap L43300 51665 | Soil | 0.59 | 108 | 0.030 | <20 | 3.04 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43300 64700 | Soil | 0.49 | 116 | 0.030 | <20 | 2.91 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43300 64750 | Soil | 0.62 | 143 | 0.056 | <20 | 1.70 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | 6 |
| PM L43300 64800 | Soil | 0.37 | 110 | 0.022 | <20 | 1.53 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43300 64850 | Soil | 0.55 | 103 | 0.036 | <20 | 2.17 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43300 64900 | Soil | 0.71 | 64 | 0.025 | <20 | 2.46 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 5 | 5 |
| PM L43300 64950 | Soil | 0.06 | 71 | 0.002 | <20 | 1.95 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43300 65000 | Soil | 0.04 | 61 | 0.027 | <20 | 1.00 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43300 65050 | Soil | 0.48 | 244 | 0.033 | <20 | 2.95 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43300 65100 | Soil | 0.42 | 326 | 0.050 | <20 | 2.09 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43300 65150 | Soil | 0.27 | 496 | 0.046 | <20 | 1.86 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| PM L43300 65200 | Soil | 0.52 | 431 | 0.080 | <20 | 2.58 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 12 | <5 |
| PM L43300 65250 | Soil | 0.34 | 521 | 0.013 | <20 | 2.71 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43300 65300 | Soil | 0.34 | 210 | 0.009 | <20 | 2.73 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43300 65350 | Soil | 0.02 | 29 | 0.010 | <20 | 0.73 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43300 65400 | Soil | 0.03 | 188 | 0.005 | <20 | 0.85 | <0.01 | 0.09 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43300 65450 | Soil | 0.35 | 483 | 0.015 | <20 | 2.06 | <0.01 | 0.05 | <2 | 0.07 | <1 | <5 | 7 | <5 |
| PM L43300 65500 | Soil | 0.44 | 83 | 0.025 | <20 | 2.81 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43300 65550 | Soil | 0.16 | 1117 | 0.023 | <20 | 1.69 | <0.01 | 0.04 | 2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43300 65600 | Soil | 0.23 | 1430 | 0.012 | <20 | 3.01 | <0.01 | 0.05 | 15 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43300 65650 | Soil | 0.14 | 161 | 0.015 | <20 | 3.08 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43300 65700 | Soil | 0.10 | 442 | 0.013 | <20 | 1.72 | <0.01 | 0.04 | 3 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43300 65750 | Soil | 0.31 | 101 | 0.064 | <20 | 3.15 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 7 | 5 |
| PM L43300 65800 | Soil | 0.19 | 539 | 0.037 | <20 | 2.09 | <0.01 | 0.03 | 4 | 0.05 | <1 | <5 | 6 | <5 |



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Project: Pitman/Keaper
Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | |
| PM L43300 65850 | Soil | 9 | 12 | 9 | 56 | <0.3 | 5 | 3 | 250 | 6.81 | 19 | <2 | 8 | <0.5 | 5 | <3 | 108 | 0.08 | 0.099 | 3 | 16 |
| Keap L43350 51705 | Soil | 3 | 77 | 14 | 157 | <0.3 | 12 | 14 | 1883 | 2.03 | 13 | <2 | 44 | 1.2 | <3 | <3 | 55 | 0.78 | 0.040 | 6 | 21 |
| Keap L43350 51720 | Soil | 6 | 52 | 15 | 65 | 1.7 | 9 | 14 | 1468 | 2.68 | 15 | <2 | 42 | 1.1 | <3 | <3 | 72 | 1.29 | 0.088 | 12 | 43 |
| Keap L43350 51735 | Soil | 5 | 45 | 16 | 113 | 0.4 | 8 | 14 | 730 | 3.08 | 13 | <2 | 26 | 1.2 | <3 | <3 | 65 | 0.56 | 0.096 | 5 | 22 |
| Keap L43350 51750 | Soil | 2 | 13 | 10 | 35 | <0.3 | 3 | 3 | 184 | 1.32 | 5 | <2 | 47 | <0.5 | <3 | <3 | 62 | 0.85 | 0.022 | 4 | 14 |
| Keap L43350 51765 | Soil | 2 | 23 | 12 | 41 | 0.6 | 6 | 3 | 262 | 3.18 | 8 | <2 | 15 | 0.7 | 4 | <3 | 93 | 0.34 | 0.043 | 4 | 18 |
| Keap L43350 51780 | Soil | 2 | 159 | 7 | 46 | <0.3 | 7 | 6 | 333 | 2.48 | 8 | <2 | 46 | 1.1 | <3 | <3 | 57 | 0.34 | 0.086 | 8 | 15 |
| Keap L43350 51795 | Soil | 2 | 295 | 5 | 143 | <0.3 | 9 | 17 | 1153 | 4.15 | 7 | <2 | 52 | 0.6 | <3 | 9 | 51 | 0.27 | 0.077 | 7 | 12 |
| Keap L43350 51810 | Soil | 1 | 98 | 6 | 57 | 0.6 | 6 | 8 | 891 | 2.15 | 10 | 2 | 50 | 0.9 | <3 | 3 | 54 | 0.45 | 0.093 | 13 | 18 |
| Keap L43350 51825 | Soil | 2 | 353 | 11 | 246 | 1.7 | 12 | 15 | 4822 | 3.93 | 18 | <2 | 33 | 2.0 | 5 | <3 | 91 | 0.60 | 0.101 | 15 | 32 |
| Keap L43350 51840 | Soil | 2 | 28 | 13 | 134 | 1.7 | 8 | 20 | 2853 | 4.93 | 14 | <2 | 10 | 1.2 | 3 | <3 | 84 | 0.23 | 0.120 | 8 | 28 |
| Keap L43350 51860 | 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. |
| Keap L43400 51455 | Soil | 15 | 16 | 11 | 132 | 1.1 | 7 | 10 | 519 | 4.76 | 3 | <2 | 25 | <0.5 | 4 | <3 | 83 | 0.72 | 0.053 | 4 | 8 |
| Keap L43400 51470 | Soil | 23 | 51 | 98 | 264 | 0.7 | 24 | 12 | 761 | 7.36 | 69 | <2 | 10 | <0.5 | 8 | <3 | 127 | 0.19 | 0.108 | 6 | 35 |
| Keap L43400 51485 | Soil | 4 | 148 | 18 | 124 | 0.3 | 17 | 15 | 588 | 2.41 | 4 | <2 | 20 | 0.8 | <3 | <3 | 40 | 0.53 | 0.098 | 8 | 27 |
| Keap L43400 51500 | Soil | 7 | 9 | <3 | 12 | <0.3 | 2 | 1 | 54 | 1.30 | <2 | <2 | 6 | <0.5 | <3 | <3 | 45 | 0.14 | 0.010 | 3 | 7 |
| Keap L43400 51515 | Soil | 20 | 152 | 24 | 126 | 1.9 | 10 | 7 | 452 | 5.72 | 11 | <2 | 10 | <0.5 | 44 | <3 | 132 | 0.24 | 0.179 | 7 | 27 |
| Keap L43400 51530 | Soil | 4 | 26 | 5 | 47 | 1.0 | 11 | 8 | 651 | 7.35 | 3 | <2 | 9 | <0.5 | 4 | <3 | 120 | 0.10 | 0.145 | 4 | 50 |
| Keap L43400 51545 | Soil | 2 | 13 | 4 | 22 | <0.3 | 8 | 5 | 498 | 3.00 | 3 | <2 | 8 | <0.5 | <3 | <3 | 93 | 0.13 | 0.122 | 3 | 20 |
| Keap L43400 51560 | Soil | 3 | 42 | 10 | 76 | 2.7 | 12 | 14 | 880 | 5.69 | 5 | <2 | 11 | 0.6 | 4 | <3 | 83 | 0.30 | 0.098 | 6 | 28 |
| Keap L43400 51630 | Soil | 3 | 30 | 8 | 153 | <0.3 | 9 | 9 | 543 | 2.01 | 8 | <2 | 59 | <0.5 | <3 | <3 | 53 | 1.36 | 0.075 | 4 | 16 |
| Keap L43400 51645 | Soil | 11 | 75 | 12 | 138 | 1.0 | 6 | 13 | 1481 | 3.73 | 20 | <2 | 37 | 1.1 | 4 | <3 | 98 | 1.48 | 0.111 | 14 | 47 |
| Keap L43400 51660 | Soil | 30 | 312 | 9 | 457 | 1.2 | 18 | 22 | >10000 | 3.12 | 12 | <2 | 32 | 20.8 | <3 | <3 | 108 | 1.26 | 0.148 | 21 | 55 |
| Keap L43400 51675 | Soil | 6 | 20 | 23 | 38 | 1.7 | 6 | 5 | 525 | 6.84 | 8 | <2 | 17 | <0.5 | 5 | <3 | 203 | 0.45 | 0.050 | 6 | 19 |
| Keap L43400 51690 | Soil | 3 | 44 | 16 | 56 | 2.1 | 5 | 5 | 1322 | 2.76 | 8 | <2 | 22 | <0.5 | <3 | <3 | 74 | 0.61 | 0.118 | 5 | 15 |
| Keap L43400 51705 | Soil | 7 | 42 | 15 | 76 | 1.3 | 7 | 7 | 921 | 3.59 | 9 | <2 | 31 | 0.5 | 3 | <3 | 85 | 0.73 | 0.241 | 5 | 20 |
| Keap L43400 51720 | Soil | 13 | 32 | 18 | 89 | 0.9 | 9 | 10 | 1313 | 5.67 | 9 | <2 | 45 | <0.5 | 4 | <3 | 152 | 1.14 | 0.085 | 7 | 23 |
| Keap L43400 51735 | Soil | 23 | 24 | 46 | 73 | 2.2 | 6 | 8 | 966 | 9.58 | 17 | <2 | 20 | <0.5 | 6 | <3 | 172 | 0.42 | 0.086 | 8 | 31 |
| Keap L43400 51845 | Soil | 2 | 58 | 8 | 62 | 0.7 | 7 | 15 | 307 | 3.49 | 35 | 3 | 20 | 0.6 | <3 | <3 | 76 | 0.28 | 0.127 | 5 | 40 |
| PM L43400 64700 | Soil | 17 | 14 | 33 | 83 | 0.4 | 8 | 7 | 660 | 2.83 | <2 | 2 | 21 | <0.5 | <3 | <3 | 43 | 0.20 | 0.173 | 8 | 14 |



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Report Date: April 11, 2016

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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| PM L43300 65850 | Soil | 0.13 | 55 | 0.089 | <20 | 1.75 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| Keap L43350 51705 | Soil | 0.77 | 85 | 0.054 | <20 | 3.23 | 0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | 6 |
| Keap L43350 51720 | Soil | 0.25 | 92 | 0.071 | <20 | 5.42 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 5 | <5 |
| Keap L43350 51735 | Soil | 0.32 | 51 | 0.086 | <20 | 5.91 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | 5 |
| Keap L43350 51750 | Soil | 0.15 | 210 | 0.021 | <20 | 1.28 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 5 | <5 |
| Keap L43350 51765 | Soil | 0.14 | 50 | 0.109 | <20 | 3.66 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| Keap L43350 51780 | Soil | 0.36 | 130 | 0.058 | <20 | 6.38 | 0.01 | 0.03 | <2 | 0.07 | <1 | <5 | 8 | <5 |
| Keap L43350 51795 | Soil | 1.22 | 88 | 0.008 | <20 | 5.17 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| Keap L43350 51810 | Soil | 0.36 | 165 | 0.013 | <20 | 4.62 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| Keap L43350 51825 | Soil | 0.45 | 87 | 0.109 | <20 | 4.74 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 6 | 7 |
| Keap L43350 51840 | Soil | 0.36 | 46 | 0.094 | <20 | 5.48 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 8 | <5 |
| Keap L43350 51860 | 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. |
| Keap L43400 51455 | Soil | 0.11 | 70 | 0.015 | <20 | 1.20 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| Keap L43400 51470 | Soil | 0.43 | 41 | 0.026 | <20 | 1.83 | <0.01 | 0.04 | <2 | 0.06 | <1 | <5 | 10 | <5 |
| Keap L43400 51485 | Soil | 0.76 | 97 | 0.012 | <20 | 5.22 | <0.01 | 0.03 | <2 | 0.06 | <1 | <5 | <5 | <5 |
| Keap L43400 51500 | Soil | 0.01 | 10 | 0.022 | <20 | 0.28 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| Keap L43400 51515 | Soil | 0.17 | 69 | 0.088 | <20 | 1.38 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 14 | <5 |
| Keap L43400 51530 | Soil | 0.38 | 49 | 0.235 | <20 | 4.26 | <0.01 | 0.03 | <2 | 0.07 | <1 | <5 | 8 | <5 |
| Keap L43400 51545 | Soil | 0.22 | 28 | 0.023 | <20 | 1.07 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| Keap L43400 51560 | Soil | 0.51 | 76 | 0.064 | <20 | 3.53 | <0.01 | 0.05 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| Keap L43400 51630 | Soil | 0.59 | 107 | 0.031 | <20 | 2.86 | 0.01 | 0.03 | 15 | 0.05 | <1 | <5 | 6 | <5 |
| Keap L43400 51645 | Soil | 0.11 | 143 | 0.079 | <20 | 3.27 | 0.01 | 0.03 | 16 | 0.10 | <1 | <5 | 8 | <5 |
| Keap L43400 51660 | Soil | 0.41 | 316 | 0.107 | <20 | 2.67 | 0.01 | 0.03 | 23 | 0.12 | <1 | <5 | 10 | <5 |
| Keap L43400 51675 | Soil | 0.25 | 63 | 0.290 | <20 | 1.78 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 28 | <5 |
| Keap L43400 51690 | Soil | 0.22 | 39 | 0.067 | <20 | 2.43 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |
| Keap L43400 51705 | Soil | 0.33 | 42 | 0.084 | <20 | 3.21 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 13 | <5 |
| Keap L43400 51720 | Soil | 0.47 | 110 | 0.186 | <20 | 2.54 | <0.01 | 0.05 | <2 | 0.06 | <1 | <5 | 22 | <5 |
| Keap L43400 51735 | Soil | 0.25 | 52 | 0.317 | <20 | 4.05 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 27 | 5 |
| Keap L43400 51845 | Soil | 0.30 | 81 | 0.117 | <20 | 6.47 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 9 | 8 |
| PM L43400 64700 | Soil | 0.42 | 240 | 0.012 | <20 | 1.53 | 0.01 | 0.09 | 5 | <0.05 | <1 | <5 | 8 | <5 |



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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method Analyte Unit MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|----|
| | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | |
| PM L43400 64750 | Soil | 5 | 56 | 29 | 95 | 0.4 | 26 | 15 | 3172 | 4.03 | 3 | 5 | 52 | <0.5 | 4 | <3 | 83 | 0.40 | 0.089 | 21 | 37 |
| PM L43400 64800 | Soil | 9 | 20 | 8 | 99 | <0.3 | 21 | 9 | 234 | 4.86 | 14 | <2 | 9 | <0.5 | <3 | <3 | 69 | 0.06 | 0.051 | 4 | 27 |
| PM L43400 64850 | Soil | 8 | 24 | 7 | 103 | <0.3 | 22 | 10 | 298 | 5.00 | 15 | <2 | 17 | <0.5 | <3 | <3 | 62 | 0.12 | 0.114 | 4 | 28 |
| PM L43400 64900 | Soil | 3 | 36 | 8 | 85 | <0.3 | 24 | 11 | 432 | 3.90 | 17 | <2 | 9 | <0.5 | <3 | <3 | 58 | 0.08 | 0.173 | 4 | 25 |
| PM L43400 64950 | Soil | 8 | 20 | 7 | 96 | <0.3 | 25 | 11 | 316 | 4.95 | 16 | <2 | 14 | <0.5 | <3 | <3 | 62 | 0.09 | 0.073 | 4 | 30 |
| PM L43400 65000 | Soil | 16 | 12 | 6 | 183 | <0.3 | 7 | 10 | 841 | 5.18 | 4 | <2 | 39 | 0.8 | <3 | <3 | 53 | 0.28 | 0.146 | 7 | 14 |
| PM L43400 65050 | Soil | 21 | 38 | 56 | 102 | 0.6 | 8 | 10 | 1126 | 3.41 | 3 | 2 | 41 | <0.5 | <3 | 4 | 28 | 0.24 | 0.155 | 17 | 8 |
| PM L43400 65100 | Soil | 15 | 33 | 9 | 124 | <0.3 | 27 | 14 | 428 | 3.91 | 14 | <2 | 10 | <0.5 | <3 | <3 | 55 | 0.06 | 0.079 | 5 | 26 |
| PM L43400 65150 | Soil | 36 | 13 | 10 | 100 | <0.3 | 14 | 8 | 386 | 3.80 | 7 | <2 | 47 | <0.5 | <3 | <3 | 46 | 0.25 | 0.056 | 22 | 17 |
| PM L43400 65200 | Soil | 28 | 18 | 11 | 98 | <0.3 | 18 | 13 | 554 | 3.91 | 12 | <2 | 28 | <0.5 | <3 | 3 | 49 | 0.20 | 0.066 | 21 | 21 |
| PM L43400 65250 | Soil | 48 | 23 | 16 | 75 | <0.3 | 11 | 11 | 761 | 3.47 | 7 | <2 | 33 | <0.5 | <3 | 9 | 44 | 0.19 | 0.070 | 34 | 18 |
| PM L43400 65300 | Soil | 28 | 14 | 11 | 96 | <0.3 | 6 | 7 | 401 | 3.66 | 2 | 3 | 31 | <0.5 | <3 | 3 | 56 | 0.30 | 0.055 | 12 | 10 |
| PM L43400 65350 | Soil | 24 | 17 | 13 | 59 | <0.3 | 4 | 3 | 135 | 3.15 | 3 | 3 | 12 | <0.5 | <3 | <3 | 32 | 0.08 | 0.138 | 9 | 8 |
| PM L43400 65400 | Soil | 10 | 40 | 5 | 260 | <0.3 | 18 | 14 | 812 | 4.68 | 3 | 2 | 10 | <0.5 | <3 | <3 | 109 | 0.10 | 0.120 | 8 | 41 |
| PM L43400 65450 | Soil | 12 | 6 | 10 | 40 | <0.3 | 4 | 4 | 279 | 4.76 | 10 | <2 | 13 | <0.5 | <3 | <3 | 85 | 0.14 | 0.098 | 8 | 13 |
| PM L43400 65500 | Soil | 36 | 34 | 6 | 58 | 0.6 | 14 | 11 | 4230 | 2.71 | 8 | <2 | 58 | 2.1 | <3 | <3 | 38 | 0.57 | 0.113 | 52 | 18 |
| PM L43400 65550 | Soil | 9 | 21 | 8 | 92 | 0.5 | 14 | 8 | 295 | 4.23 | 12 | <2 | 8 | 0.5 | <3 | <3 | 59 | 0.05 | 0.103 | 5 | 20 |
| PM L43400 65600 | Soil | 18 | 14 | 9 | 60 | <0.3 | 5 | 10 | 552 | 4.03 | 7 | <2 | 7 | <0.5 | <3 | <3 | 36 | 0.07 | 0.128 | 12 | 10 |
| PM L43400 65650 | Soil | 28 | 16 | 6 | 71 | <0.3 | 18 | 13 | 310 | 3.41 | 10 | <2 | 16 | <0.5 | <3 | <3 | 40 | 0.16 | 0.058 | 6 | 15 |
| PM L43400 65700 | Soil | 16 | 13 | 7 | 88 | <0.3 | 12 | 8 | 254 | 4.98 | 13 | <2 | 8 | <0.5 | <3 | <3 | 68 | 0.05 | 0.067 | 5 | 23 |
| PM L43400 65750 | Soil | 26 | 14 | 8 | 43 | <0.3 | 5 | 5 | 169 | 5.64 | 20 | <2 | 7 | <0.5 | <3 | <3 | 106 | 0.05 | 0.114 | 5 | 18 |
| PM L43400 65800 | Soil | 5 | 7 | <3 | 11 | <0.3 | 1 | 1 | 63 | 1.36 | <2 | <2 | 6 | <0.5 | <3 | <3 | 32 | 0.04 | 0.013 | 6 | 2 |
| PM L43400 65850 | Soil | 7 | 12 | 7 | 38 | <0.3 | 7 | 4 | 166 | 5.77 | 15 | <2 | 5 | <0.5 | <3 | <3 | 60 | 0.03 | 0.073 | 5 | 18 |
| PM L43400 65900 | Soil | 2 | 8 | 5 | 47 | <0.3 | 4 | 3 | 191 | 3.46 | 8 | <2 | 3 | <0.5 | <3 | <3 | 49 | 0.03 | 0.110 | 5 | 13 |
| PM L43400 65950 | Soil | 2 | 23 | 7 | 85 | <0.3 | 15 | 12 | 344 | 4.05 | 21 | 2 | 7 | <0.5 | <3 | <3 | 49 | 0.06 | 0.064 | 5 | 20 |
| Keap L43450 51630 | Soil | 2 | 48 | 5 | 22 | <0.3 | 5 | 3 | 143 | 2.25 | 4 | <2 | 41 | <0.5 | <3 | <3 | 42 | 1.22 | 0.064 | 6 | 9 |
| Keap L43450 51645 | Soil | 2 | 41 | 11 | 54 | 1.1 | 5 | 10 | 632 | 4.88 | 14 | <2 | 17 | 0.7 | <3 | <3 | 85 | 0.34 | 0.139 | 8 | 29 |
| Keap L43450 51660 | Soil | 3 | 26 | 20 | 48 | 0.8 | 6 | 7 | 574 | 7.45 | 11 | <2 | 24 | 0.5 | <3 | <3 | 204 | 0.73 | 0.083 | 5 | 23 |
| Keap L43450 51675 | Soil | 2 | 36 | 11 | 84 | 1.8 | 5 | 7 | 728 | 3.94 | 9 | <2 | 21 | 0.5 | <3 | <3 | 95 | 0.46 | 0.130 | 6 | 18 |
| Keap L43450 51690 | Soil | 3 | 22 | 16 | 73 | 0.5 | 6 | 7 | 774 | 7.49 | 9 | <2 | 25 | <0.5 | <3 | <3 | 167 | 0.52 | 0.102 | 6 | 21 |



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CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| PM L43400 64750 | Soil | 1.10 | 578 | 0.004 | <20 | 2.87 | <0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 8 | 9 |
| PM L43400 64800 | Soil | 0.43 | 162 | 0.025 | <20 | 3.55 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| PM L43400 64850 | Soil | 0.45 | 134 | 0.017 | <20 | 3.34 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 64900 | Soil | 0.65 | 82 | 0.038 | <20 | 2.83 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43400 64950 | Soil | 0.45 | 138 | 0.036 | <20 | 3.70 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| PM L43400 65000 | Soil | 0.31 | 464 | 0.009 | <20 | 2.57 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 8 | 5 |
| PM L43400 65050 | Soil | 0.14 | 866 | 0.003 | <20 | 2.62 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 65100 | Soil | 0.47 | 130 | 0.031 | <20 | 3.72 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43400 65150 | Soil | 0.42 | 521 | 0.025 | <20 | 1.87 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43400 65200 | Soil | 0.48 | 342 | 0.030 | <20 | 2.39 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43400 65250 | Soil | 0.39 | 560 | 0.018 | <20 | 2.06 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43400 65300 | Soil | 0.23 | 400 | 0.004 | <20 | 1.80 | <0.01 | 0.08 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 65350 | Soil | 0.11 | 183 | 0.005 | <20 | 1.83 | <0.01 | 0.07 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 65400 | Soil | 0.85 | 165 | 0.056 | <20 | 3.06 | <0.01 | 0.06 | <2 | <0.05 | <1 | <5 | 12 | 7 |
| PM L43400 65450 | Soil | 0.11 | 194 | 0.054 | <20 | 1.57 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 13 | <5 |
| PM L43400 65500 | Soil | 0.28 | 752 | 0.045 | <20 | 5.45 | <0.01 | 0.05 | 5 | 0.06 | <1 | <5 | 6 | <5 |
| PM L43400 65550 | Soil | 0.38 | 78 | 0.046 | <20 | 3.35 | <0.01 | 0.03 | 3 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 65600 | Soil | 0.08 | 164 | 0.004 | <20 | 2.91 | <0.01 | 0.07 | 2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43400 65650 | Soil | 0.35 | 216 | 0.013 | <20 | 3.34 | <0.01 | 0.03 | 12 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43400 65700 | Soil | 0.25 | 107 | 0.063 | <20 | 4.20 | <0.01 | 0.03 | 3 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43400 65750 | Soil | 0.20 | 66 | 0.049 | <20 | 1.68 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| PM L43400 65800 | Soil | 0.04 | 87 | 0.016 | <20 | 0.61 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L43400 65850 | Soil | 0.21 | 72 | 0.048 | <20 | 2.48 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| PM L43400 65900 | Soil | 0.08 | 69 | 0.013 | <20 | 2.97 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| PM L43400 65950 | Soil | 0.49 | 95 | 0.055 | <20 | 4.00 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| Keap L43450 51630 | Soil | 0.11 | 65 | 0.023 | <20 | 2.39 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 6 | <5 |
| Keap L43450 51645 | Soil | 0.18 | 61 | 0.118 | <20 | 8.01 | <0.01 | 0.01 | <2 | 0.06 | <1 | <5 | 9 | 8 |
| Keap L43450 51660 | Soil | 0.28 | 59 | 0.263 | <20 | 2.11 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 17 | <5 |
| Keap L43450 51675 | Soil | 0.21 | 70 | 0.083 | <20 | 4.52 | <0.01 | 0.02 | <2 | 0.05 | <1 | <5 | 12 | <5 |
| Keap L43450 51690 | Soil | 0.27 | 54 | 0.191 | <20 | 2.78 | <0.01 | 0.03 | <2 | 0.06 | <1 | <5 | 16 | <5 |



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Project: Pitman/Keaper

Report Date: April 11, 2016

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | Analyte | Unit | MDL | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | | |
|-----------------------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|
| | | | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr |
| | | | | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | | | |
| Keap L43450 51705 | Soil | | | 2 | 34 | 7 | 60 | 0.5 | 8 | 11 | 968 | 3.98 | 4 | <2 | 284 | <0.5 | <3 | <3 | 63 | 0.51 | 0.129 | 23 | 12 |
| Keap L43450 51720 | Soil | | | 5 | 9 | 5 | 18 | <0.3 | 3 | 3 | 113 | 2.80 | <2 | <2 | 35 | <0.5 | <3 | <3 | 89 | 0.24 | 0.063 | 4 | 5 |
| Keap L43450 51735 | Soil | | | 10 | 46 | 14 | 123 | 0.5 | 7 | 17 | 968 | 6.36 | 15 | <2 | 42 | 0.6 | <3 | 3 | 93 | 0.69 | 0.184 | 9 | 22 |
| Keap L43450 51750 | Soil | | | 4 | 32 | 19 | 135 | 1.0 | 7 | 16 | 1998 | 2.64 | 12 | <2 | 21 | 1.2 | <3 | <3 | 51 | 0.78 | 0.107 | 6 | 21 |
| Keap L43450 51765 | Soil | | | 14 | 11 | 24 | 51 | 0.6 | 4 | 7 | 883 | 4.35 | 8 | <2 | 15 | 0.5 | <3 | <3 | 106 | 0.52 | 0.042 | 6 | 22 |
| Keap L43450 51780 | Soil | | | 19 | 13 | 39 | 52 | 0.7 | 5 | 4 | 574 | 3.88 | 7 | <2 | 12 | <0.5 | <3 | <3 | 83 | 0.49 | 0.051 | 5 | 16 |
| Keap L43450 51795 | Soil | | | 2 | 10 | 125 | 300 | 0.9 | 10 | 18 | >10000 | 1.95 | 19 | <2 | 22 | 1.7 | <3 | <3 | 46 | 1.10 | 0.106 | 9 | 18 |
| Keap L43450 51810 | Soil | | | <1 | 14 | 19 | 117 | 1.2 | 9 | 16 | 924 | 1.99 | 11 | <2 | 28 | 0.8 | <3 | <3 | 51 | 1.15 | 0.072 | 4 | 11 |
| Keap L43450 51825 | Soil | | | <1 | 25 | 19 | 130 | 0.7 | 8 | 15 | 3926 | 2.17 | 10 | <2 | 44 | 0.8 | <3 | <3 | 60 | 1.00 | 0.153 | 6 | 15 |
| Keap L43450 51840 | Soil | | | 1 | 24 | 9 | 41 | 0.6 | 6 | 10 | 975 | 3.68 | 10 | <2 | 17 | 1.2 | <3 | <3 | 73 | 0.31 | 0.070 | 5 | 25 |
| Keap L43500 51600 | Soil | | | 2 | 210 | 4 | 49 | <0.3 | 6 | 6 | 335 | 2.50 | 5 | <2 | 100 | <0.5 | <3 | <3 | 48 | 0.49 | 0.118 | 10 | 10 |
| Keap L43500 51615 | Soil | | | 4 | 95 | 7 | 50 | 0.6 | 5 | 6 | 308 | 4.29 | 8 | <2 | 59 | <0.5 | <3 | <3 | 98 | 0.54 | 0.097 | 10 | 16 |
| Keap L43500 51630 | Soil | | | 1 | 49 | <3 | 22 | <0.3 | 4 | 4 | 161 | 1.95 | 3 | <2 | 90 | <0.5 | <3 | <3 | 35 | 0.20 | 0.242 | 9 | 8 |
| Keap L43500 51645 | Soil | | | <1 | 22 | <3 | 18 | <0.3 | 4 | 3 | 172 | 2.90 | 6 | <2 | 77 | <0.5 | <3 | <3 | 28 | 0.25 | 0.418 | 11 | 8 |
| Keap L43500 51660 | Soil | | | <1 | 45 | <3 | 34 | <0.3 | 4 | 5 | 1027 | 2.06 | 4 | <2 | 82 | <0.5 | <3 | <3 | 28 | 0.44 | 0.215 | 7 | 9 |
| Keap L43500 51675 | Soil | | | 1 | 108 | 12 | 153 | 0.4 | 7 | 13 | 717 | 1.80 | 16 | <2 | 58 | 0.6 | <3 | <3 | 41 | 0.95 | 0.116 | 6 | 15 |
| Keap L43500 51690 | Soil | | | 3 | 33 | 25 | 121 | <0.3 | 7 | 11 | 1317 | 7.47 | 11 | <2 | 18 | 0.7 | <3 | <3 | 173 | 0.76 | 0.196 | 6 | 34 |
| Keap L43500 51705 | Soil | | | 2 | 146 | 28 | 109 | 0.4 | 6 | 11 | 1202 | 2.91 | 10 | <2 | 27 | 0.9 | <3 | <3 | 64 | 0.89 | 0.144 | 5 | 19 |
| Keap L43500 51720 | Soil | | | 1 | 13 | 19 | 49 | <0.3 | 3 | 5 | 451 | 2.78 | 11 | <2 | 22 | 0.7 | <3 | <3 | 95 | 1.38 | 0.081 | 3 | 17 |
| Keap L43500 51735 | Soil | | | 1 | 40 | 3 | 75 | 0.4 | 7 | 13 | 1440 | 2.75 | 17 | <2 | 137 | 0.8 | <3 | <3 | 45 | 0.66 | 0.198 | 5 | 15 |
| Paddy 0540166 6067466 | Soil | | | 2 | 20 | 13 | 43 | 0.7 | 7 | 6 | 346 | 4.35 | 45 | <2 | 5 | <0.5 | <3 | <3 | 57 | 0.03 | 0.059 | 11 | 15 |



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Project: Pitman/Keaper
Report Date: April 11, 2016

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI15000106.1

| Method | Analyte | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| Unit | | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| MDL | | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| Keap L43450 51705 | Soil | 0.39 | 290 | 0.060 | <20 | 4.65 | <0.01 | 0.06 | <2 | 0.06 | <1 | <5 | 12 | <5 |
| Keap L43450 51720 | Soil | 0.10 | 71 | 0.086 | <20 | 1.95 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| Keap L43450 51735 | Soil | 0.41 | 82 | 0.154 | <20 | 4.10 | <0.01 | 0.02 | <2 | 0.05 | <1 | <5 | 13 | <5 |
| Keap L43450 51750 | Soil | 0.33 | 50 | 0.062 | <20 | 4.96 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 6 | <5 |
| Keap L43450 51765 | Soil | 0.14 | 33 | 0.186 | <20 | 2.72 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | 13 | <5 |
| Keap L43450 51780 | Soil | 0.11 | 28 | 0.165 | <20 | 3.96 | <0.01 | 0.01 | <2 | 0.07 | <1 | <5 | 11 | <5 |
| Keap L43450 51795 | Soil | 0.36 | 80 | 0.038 | <20 | 3.73 | <0.01 | 0.01 | <2 | 0.07 | <1 | <5 | 7 | <5 |
| Keap L43450 51810 | Soil | 0.58 | 25 | 0.092 | <20 | 4.63 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| Keap L43450 51825 | Soil | 0.40 | 80 | 0.048 | <20 | 5.32 | <0.01 | 0.02 | <2 | 0.08 | <1 | <5 | 9 | <5 |
| Keap L43450 51840 | Soil | 0.31 | 61 | 0.094 | <20 | 4.15 | <0.01 | <0.01 | <2 | 0.07 | <1 | <5 | 11 | <5 |
| Keap L43500 51600 | Soil | 0.23 | 174 | 0.047 | <20 | 4.91 | <0.01 | 0.03 | <2 | 0.06 | <1 | <5 | 11 | <5 |
| Keap L43500 51615 | Soil | 0.31 | 112 | 0.079 | <20 | 5.35 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 18 | <5 |
| Keap L43500 51630 | Soil | 0.19 | 157 | 0.014 | <20 | 4.70 | <0.01 | 0.03 | 2 | 0.09 | <1 | <5 | 9 | <5 |
| Keap L43500 51645 | Soil | 0.12 | 125 | 0.050 | <20 | 5.16 | <0.01 | 0.02 | <2 | 0.10 | <1 | <5 | 10 | <5 |
| Keap L43500 51660 | Soil | 0.17 | 129 | 0.018 | <20 | 5.54 | <0.01 | 0.03 | 4 | 0.09 | <1 | <5 | 6 | <5 |
| Keap L43500 51675 | Soil | 0.35 | 72 | 0.039 | <20 | 5.73 | <0.01 | 0.02 | <2 | 0.05 | <1 | <5 | 5 | <5 |
| Keap L43500 51690 | Soil | 0.39 | 55 | 0.134 | <20 | 3.75 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 17 | <5 |
| Keap L43500 51705 | Soil | 0.36 | 48 | 0.055 | <20 | 4.52 | <0.01 | 0.02 | <2 | 0.06 | <1 | <5 | 6 | <5 |
| Keap L43500 51720 | Soil | 0.13 | 49 | 0.146 | <20 | 2.20 | <0.01 | 0.01 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| Keap L43500 51735 | Soil | 0.37 | 133 | 0.016 | <20 | 6.80 | 0.01 | 0.06 | <2 | 0.09 | <1 | <5 | 6 | <5 |
| Paddy 0540166 6067466 | Soil | 0.31 | 38 | 0.046 | <20 | 2.01 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 9 | <5 |



QUALITY CONTROL REPORT

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr | |
| Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm | |
| MDL | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 | 1 | 1 | |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| PM L42200 65000 | Soil | <1 | 2 | <3 | 6 | <0.3 | 3 | <1 | 22 | 0.36 | <2 | <2 | 5 | <0.5 | <3 | <3 | 12 | 0.03 | 0.018 | 5 | 9 |
| REP PM L42200 65000 | QC | <1 | 2 | <3 | 6 | <0.3 | 3 | <1 | 23 | 0.36 | <2 | <2 | 5 | <0.5 | <3 | <3 | 12 | 0.03 | 0.018 | 5 | 7 |
| PM L42500 65440 | Soil | 24 | 18 | 11 | 60 | <0.3 | 10 | 6 | 221 | 4.12 | 12 | <2 | 6 | <0.5 | <3 | <3 | 52 | 0.06 | 0.036 | 4 | 24 |
| REP PM L42500 65440 | QC | 25 | 19 | 12 | 62 | <0.3 | 11 | 6 | 230 | 4.23 | 13 | 3 | 6 | <0.5 | <3 | <3 | 54 | 0.06 | 0.037 | 4 | 25 |
| PM L43100 64950 | Soil | 4 | 10 | 6 | 46 | <0.3 | 6 | 4 | 145 | 4.28 | 17 | <2 | 6 | <0.5 | <3 | <3 | 63 | 0.04 | 0.102 | 4 | 23 |
| REP PM L43100 64950 | QC | 4 | 10 | 6 | 46 | <0.3 | 6 | 4 | 143 | 4.26 | 17 | <2 | 6 | <0.5 | <3 | <3 | 64 | 0.03 | 0.101 | 4 | 21 |
| PM L43200 65700 | Soil | 4 | 13 | 11 | 99 | <0.3 | 15 | 7 | 318 | 5.14 | 12 | 2 | 3 | <0.5 | 4 | <3 | 56 | 0.04 | 0.085 | 5 | 19 |
| REP PM L43200 65700 | QC | 4 | 12 | 9 | 97 | <0.3 | 15 | 7 | 318 | 5.07 | 11 | 2 | 3 | <0.5 | 3 | <3 | 55 | 0.04 | 0.083 | 5 | 16 |
| PM L43300 65550 | Soil | 22 | 9 | 13 | 58 | <0.3 | 7 | 8 | 1500 | 3.64 | <2 | <2 | 40 | 0.6 | <3 | 38 | 59 | 0.42 | 0.078 | 19 | 16 |
| REP PM L43300 65550 | QC | 22 | 9 | 13 | 58 | <0.3 | 7 | 8 | 1500 | 3.67 | 4 | <2 | 40 | <0.5 | <3 | 34 | 59 | 0.43 | 0.078 | 19 | 14 |
| PM L43400 64800 | Soil | 9 | 20 | 8 | 99 | <0.3 | 21 | 9 | 234 | 4.86 | 14 | <2 | 9 | <0.5 | <3 | <3 | 69 | 0.06 | 0.051 | 4 | 27 |
| REP PM L43400 64800 | QC | 9 | 21 | 7 | 102 | <0.3 | 22 | 9 | 238 | 4.88 | 14 | <2 | 10 | <0.5 | <3 | <3 | 70 | 0.06 | 0.052 | 4 | 28 |
| Keap L43450 51810 | Soil | <1 | 14 | 19 | 117 | 1.2 | 9 | 16 | 924 | 1.99 | 11 | <2 | 28 | 0.8 | <3 | <3 | 51 | 1.15 | 0.072 | 4 | 11 |
| REP Keap L43450 51810 | QC | 1 | 15 | 20 | 118 | 1.3 | 9 | 16 | 957 | 2.02 | 11 | <2 | 28 | 0.8 | <3 | <3 | 52 | 1.12 | 0.074 | 4 | 12 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | 13 | 160 | 159 | 383 | 1.9 | 76 | 12 | 944 | 2.83 | 47 | 8 | 71 | 2.2 | 8 | 11 | 44 | 1.11 | 0.078 | 17 | 57 |
| STD DS10 | Standard | 14 | 154 | 149 | 370 | 2.1 | 73 | 12 | 905 | 2.71 | 44 | 7 | 68 | 2.2 | 8 | 11 | 42 | 1.07 | 0.076 | 17 | 55 |
| STD DS10 | Standard | 12 | 145 | 140 | 350 | 2.0 | 69 | 12 | 891 | 2.60 | 43 | 6 | 61 | 2.2 | 8 | 11 | 39 | 1.02 | 0.072 | 14 | 50 |
| STD DS10 | Standard | 12 | 153 | 148 | 365 | 1.6 | 71 | 12 | 847 | 2.66 | 44 | 8 | 60 | 2.2 | 7 | 12 | 41 | 1.02 | 0.075 | 14 | 50 |
| STD DS10 | Standard | 12 | 146 | 140 | 347 | 1.8 | 70 | 12 | 836 | 2.68 | 44 | 8 | 61 | 2.5 | 9 | 10 | 40 | 1.04 | 0.075 | 14 | 51 |
| STD DS10 | Standard | 13 | 157 | 158 | 388 | 2.1 | 76 | 13 | 937 | 2.84 | 48 | 6 | 67 | 2.7 | 8 | 13 | 42 | 1.11 | 0.080 | 16 | 53 |
| STD DS10 | Standard | 12 | 151 | 145 | 366 | 1.9 | 71 | 13 | 895 | 2.68 | 45 | 6 | 64 | 2.5 | 8 | 11 | 43 | 1.05 | 0.074 | 15 | 51 |
| STD OREAS45EA | Standard | <1 | 719 | 15 | 29 | 0.4 | 411 | 57 | 431 | 22.32 | 9 | 10 | 4 | <0.5 | 5 | <3 | 316 | 0.04 | 0.031 | 7 | 905 |
| STD OREAS45EA | Standard | 1 | 698 | 16 | 27 | 0.6 | 390 | 54 | 420 | 20.89 | 7 | 11 | 4 | <0.5 | 5 | 4 | 305 | 0.04 | 0.030 | 6 | 861 |
| STD OREAS45EA | Standard | <1 | 648 | 15 | 26 | 0.5 | 354 | 52 | 402 | 19.69 | 4 | 9 | 4 | <0.5 | 5 | 4 | 288 | 0.04 | 0.029 | 6 | 806 |
| STD OREAS45EA | Standard | 2 | 717 | 13 | 32 | 0.6 | 383 | 55 | 404 | 21.13 | 5 | 10 | 4 | 1.1 | 9 | <3 | 304 | 0.03 | 0.031 | 8 | 903 |
| STD OREAS45EA | Standard | 2 | 651 | 12 | 30 | 0.5 | 352 | 52 | 389 | 20.14 | 4 | 10 | 4 | 1.2 | 8 | <3 | 289 | 0.03 | 0.029 | 7 | 858 |
| STD OREAS45EA | Standard | <1 | 662 | 14 | 26 | <0.3 | 358 | 53 | 404 | 20.44 | 3 | 7 | 4 | 2.1 | 5 | <3 | 288 | 0.04 | 0.029 | 7 | 818 |



QUALITY CONTROL REPORT

SMI15000106.1

| Method | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc | |
| Unit | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm | |
| MDL | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 | |
| Pulp Duplicates | | | | | | | | | | | | | | |
| PM L42200 65000 | Soil | 0.02 | 14 | 0.011 | <20 | 0.46 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| REP PM L42200 65000 | QC | 0.02 | 14 | 0.010 | <20 | 0.44 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| PM L42500 65440 | Soil | 0.29 | 54 | 0.032 | <20 | 2.78 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 6 | <5 |
| REP PM L42500 65440 | QC | 0.31 | 55 | 0.033 | <20 | 2.84 | <0.01 | 0.04 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43100 64950 | Soil | 0.22 | 64 | 0.018 | <20 | 2.39 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 8 | <5 |
| REP PM L43100 64950 | QC | 0.21 | 63 | 0.018 | <20 | 2.39 | <0.01 | 0.02 | <2 | <0.05 | <1 | <5 | 7 | <5 |
| PM L43200 65700 | Soil | 0.32 | 102 | 0.054 | <20 | 3.89 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 15 | <5 |
| REP PM L43200 65700 | QC | 0.32 | 100 | 0.056 | <20 | 3.84 | <0.01 | 0.03 | <2 | 0.05 | <1 | <5 | 12 | <5 |
| PM L43300 65550 | Soil | 0.16 | 1117 | 0.023 | <20 | 1.69 | <0.01 | 0.04 | 2 | <0.05 | <1 | <5 | 6 | <5 |
| REP PM L43300 65550 | QC | 0.16 | 1120 | 0.026 | <20 | 1.70 | <0.01 | 0.04 | 3 | <0.05 | <1 | <5 | 6 | <5 |
| PM L43400 64800 | Soil | 0.43 | 162 | 0.025 | <20 | 3.55 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| REP PM L43400 64800 | QC | 0.45 | 162 | 0.025 | <20 | 3.55 | <0.01 | 0.03 | <2 | <0.05 | <1 | <5 | 11 | <5 |
| Keap L43450 51810 | Soil | 0.58 | 25 | 0.092 | <20 | 4.63 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | 10 | <5 |
| REP Keap L43450 51810 | QC | 0.58 | 26 | 0.093 | <20 | 4.69 | <0.01 | <0.01 | <2 | 0.06 | <1 | <5 | 8 | <5 |
| Reference Materials | | | | | | | | | | | | | | |
| STD DS10 | Standard | 0.81 | 442 | 0.082 | <20 | 1.08 | 0.07 | 0.35 | 3 | 0.30 | <1 | <5 | <5 | <5 |
| STD DS10 | Standard | 0.79 | 429 | 0.079 | <20 | 1.05 | 0.07 | 0.35 | 3 | 0.29 | <1 | <5 | <5 | <5 |
| STD DS10 | Standard | 0.76 | 410 | 0.067 | <20 | 0.94 | 0.06 | 0.32 | 4 | 0.28 | <1 | <5 | <5 | <5 |
| STD DS10 | Standard | 0.74 | 396 | 0.067 | <20 | 0.94 | 0.06 | 0.32 | 3 | 0.27 | <1 | <5 | <5 | <5 |
| STD DS10 | Standard | 0.74 | 402 | 0.066 | <20 | 0.95 | 0.06 | 0.32 | 2 | 0.27 | <1 | 5 | <5 | <5 |
| STD DS10 | Standard | 0.81 | 440 | 0.074 | <20 | 1.02 | 0.07 | 0.35 | 2 | 0.30 | <1 | 5 | <5 | <5 |
| STD DS10 | Standard | 0.77 | 419 | 0.071 | <20 | 0.98 | 0.06 | 0.33 | 2 | 0.28 | <1 | <5 | <5 | <5 |
| STD OREAS45EA | Standard | 0.10 | 147 | 0.104 | <20 | 3.40 | 0.02 | 0.06 | <2 | <0.05 | <1 | <5 | 17 | 85 |
| STD OREAS45EA | Standard | 0.10 | 143 | 0.101 | <20 | 3.26 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 19 | 82 |
| STD OREAS45EA | Standard | 0.09 | 141 | 0.091 | <20 | 2.89 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 23 | 75 |
| STD OREAS45EA | Standard | 0.10 | 147 | 0.099 | <20 | 3.16 | 0.03 | 0.06 | <2 | <0.05 | <1 | <5 | 10 | 85 |
| STD OREAS45EA | Standard | 0.09 | 147 | 0.088 | <20 | 2.92 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 29 | 79 |
| STD OREAS45EA | Standard | 0.09 | 142 | 0.093 | <20 | 2.98 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 32 | 78 |



QUALITY CONTROL REPORT

SMI15000106.1

| | | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|------------------------|----------|-------|--------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Th | Sr | Cd | Sb | Bi | V | Ca | P | La | Cr |
| | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm | ppm |
| | | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 | 1 | 1 |
| STD OREAS45EA | Standard | <1 | 703 | 14 | 26 | 0.4 | 377 | 55 | 423 | 22.06 | 5 | 7 | 4 | 1.7 | 6 | <3 | 303 | 0.04 | 0.030 | 7 | 858 |
| STD DS10 Expected | | 13.6 | 154.61 | 150.55 | 370 | 2.02 | 74.6 | 12.9 | 875 | 2.7188 | 46.2 | 7.5 | 67.1 | 2.62 | 9 | 11.65 | 43 | 1.0625 | 0.0765 | 17.5 | 54.6 |
| STD OREAS45EA Expected | | 1.6 | 709 | 14.3 | 31.4 | 0.26 | 381 | 52 | 400 | 23.51 | 10 | 10.7 | 3.5 | | | | 303 | 0.036 | 0.029 | 7.06 | 849 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |
| BLK | Blank | <1 | <1 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 | <1 | <1 |



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Project: Pitman/Keaper
Report Date: April 11, 2016

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QUALITY CONTROL REPORT

SMI15000106.1

| | | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 | AQ300 |
|------------------------|----------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Mg | Ba | Ti | B | Al | Na | K | W | S | Hg | Tl | Ga | Sc |
| | | % | ppm | % | ppm | % | % | % | ppm | % | ppm | ppm | ppm | ppm |
| | | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.01 | 0.01 | 2 | 0.05 | 1 | 5 | 5 | 5 |
| STD OREAS45EA | Standard | 0.10 | 146 | 0.099 | <20 | 3.16 | 0.02 | 0.05 | <2 | <0.05 | <1 | <5 | 28 | 83 |
| STD DS10 Expected | | 0.775 | 412 | 0.0817 | | 1.0259 | 0.067 | 0.338 | 3.32 | 0.29 | 0.3 | 5.1 | 4.3 | 2.8 |
| STD OREAS45EA Expected | | 0.095 | 148 | 0.0984 | | 3.13 | 0.02 | 0.053 | | 0.036 | | | 12.4 | 78 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |
| BLK | Blank | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.01 | <0.01 | <2 | <0.05 | <1 | <5 | <5 | <5 |