

2019 Assessment Report

on the

Nazgul Claims, Yukon

Beaver River Area
NTS 106D/06 (Horseshoe Hill)
Lat. 64°29'14" N • Long. 135°11'54" W
Mayo Mining District

Claims work applied to:
Nazgul 1-8 (YF29293 to YF29300)
Nazgul 9-16 (YF29079 to YF29086)

Prepared for:



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Period of Work:
July 21-25, 2019

Summary	2
1 Introduction	4
1.1 Location & Access	4
1.2 Land Tenure	4
Table 1. Claim Status.....	5
Figure 1. Location and Access	6
Figure 2. Nazgul Claims Map.....	7
1.3 Physiography & Climate	8
LEFT, Photo Plate 1. Settlemier Ridge looking SSW. Note the darker volcanic rocks in the distance and the distinctive orange weathered carbonates in the foreground. The sharp ridgelines and steep slopes are typical physiography for the claims.	8
2 Nazgul Claims - History	8
Table 2. Nazgul Claims - History.....	9
2.1 Settlemier (106D 043) Occurrence.....	9
3 Regional and Property Geology	9
3.1 Regional Geology and Tectonic Setting	9
Figure 3. Regional Geology	10
3.2 Property Geology	12
Figure 4. Property Geology	13
4 Mineralization Style & Deposit Type	13
Photo Plate 2. (A) Typical alteration zones proximal to mineralization with strong to pervasive manganese and iron(-carbonate) oxides; (B) Gimli vein Ag-Pb-Zn mineralization on Nazgul claims; (C) Cu-mineralization (Saruman) on Nazgul claims as chalcopyrite nodules and malachite staining along fractures.	14
5 2019 Work Program.....	14
5.1 Staking.....	14
5.2 Prospecting.....	14
Photo Plate 3. LEFT: Typical mineralization collected from the Smaug vein. RIGHT: Mineralized sample (1497454) from the Galadriel vein.	16
Table 3. Summary of Nazgul Rocks – Selected 2019 Samples and Results	16
5.2.1 Rock Sampling & Geochemical Analysis	16
Figure 5. Rock Chemistry – Ag	17
Figure 6. Rock Chemistry – Pb	18
Figure 7. Rock Chemistry – Zn.....	19
Figure 8. Rock Chemistry – Cu	20
5.3 Soil Sampling	20
5.3.1 Soil Sampling Results and Interpretation	20
Figure 9. Soil Chemistry – Ag	21
Figure 10. Soil Chemistry – Pb	22
Figure 11. Soil Chemistry – Zn.....	23
Figure 12. Soil Chemistry – Cu	24
5.4 Property-Scale Mapping.....	25
Photo Plate 4. Nazgul claims along Settlemier Ridge (looking due east). Stratigraphic relationships are easily seen. Exploration focus is centred on the variable volcanics and metapelites.	25
6 Conclusions and Recommendations for Future Work.....	26
6.1 Recommendations for Future Work	26
7 Bibliography	27
8 Statement of Qualifications	29
Appendix I. Statement of Expenditures.....	31
Appendix II. Batch Sheets & Assay Certificates.....	32
Appendix III. Rock Descriptions & Data	33
Appendix IV. Soil Descriptions & Data.....	34

Summary

This report summarizes the 2019 exploration program performed by TruePoint Exploration (TruePoint) for Metallic Minerals Corp (MMG) at Settlemier Ridge (Nazgul claims). This exploration program was in part funded through a YMEP Target Evaluation application. The 2019 work program occurred from July 21st to July 25th, totaling 27 man-days. The program consisted of staking eight additional claims (Nazgul 9-16) to the northwest of the original claim block; mapping, prospecting, and rock sampling along Settlemier Ridge; and 12 ridge-and-spur and contour soil sampling lines.

The Nazgul claims are located approximately 40 km north of McQuesten Lake on NTS map sheet 106D/06. The claims encompass Settlemier Ridge and extend to the northwest, where they terminate near Settlemier Creek. This ridge trends to the southwest and branches into two separate spurs at the terminus of the ridge to the southwest. The Nazgul claims are bound by Carpenter Creek to the southeast of the ridge, and Settlemier Creek to the northwest. Carpenter Creek feeds into the Carpenter River, which is in the Beaver River drainage within the Selwyn Range of the southern Wernecke Mountains. The work crew was based out of MMG's Keno crew house, located ~60 km to the south. The claims are centered at 64° 29'14" N Latitude, 135° 11'54" W Longitude (Mayo Mining District).

This area was regionally mapped by L. Green (1972) of the Geological Survey of Canada (GSC) in 1961 as part of a helicopter-supported party known as 'Operation Ogilvie'. The area has not been remapped since 1961 and no 1:50,000-scale mapping is known in the area. Currently the region is said to be underlain by the Lower Proterozoic Gillespie Lake Group dolomite which has been intruded by Middle Proterozoic resistant dark-weathering diorite and gabbroic sills and dykes assigned to the Hart River Sills. The Settlemier MINFILE occurrence documents the deposit type as MVT-style Pb-Zn. However, presence of volcanics (basalts, gabbros ± tuffs), which aren't typically associated with MVT's, points to potential for epithermal-style mineralization.

The 2019 exploration program on the Nazgul claims was completed between July 21st and July 25th and was deemed very successful. The program consisted of staking of eight additional claims to the northwest, ridge-and-spur soil sampling, property-scale mapping, and the identification of additional in situ mineralization through prospecting. A total of \$31,915.40 was spent over the duration of the work program. In summary, the exploration program included:

- Staking of the Nazgul 9-16 claims to the northwest between Settlemier creek and the Nazgul 1-8 claims
- Prospecting and rock sampling to identify further mineralization on the claims, which included traverses along the ridgeline and secondary spurs;
- 12 ridge-and-spur and contour soil lines; and
- Grid mapping at 1:2,500 along Settlemier Ridge.

The five-day program led to the discovery of five new vein structures, three of which reported anomalous Ag-Pb±Zn,Cu. Coupled with the single day of exploration performed in 2018, the six known days of exploration at Settlemier Ridge by MMG has proved to be extremely fruitful, with the full target potential still to be defined through expanded exploration programs in the coming years on the Nazgul and surrounding claims.

The discoveries at Nazgul and resulting work over the 2018 and 2019 seasons has highlighted multiple areas of interest. Seven vein structures have been identified, with many samples returning highly

anomalous base metal geochemistry. As a result, the following is recommended for the 2020 field season and beyond:

- Grid soil sampling at 50 m-spacing over the claim block, especially on the newly staked claims to discern possible vein extensions;
- Detailed property-scale mapping;
 - Continued assessment on the association between the recurring intrusive dykes on the claims and their association to mineralization;
- Prospect previously identified mineralized float trains down slope to potentially identify further in situ mineralization and extend known strike of mineralized veins; and
- Perform trenching across all known accessible mineralized veins (Gimli, Smeagol, Galadriel, and Smaug) via hand or a helicopter-portable excavator;
- Prospecting via drone aerial photography on steeper portions of the claim block; and
- TerraSpec analysis along ridgelines to characterize and vector mineralization via clay chemistry.

1 Introduction

This report summarizes the 2019 exploration program performed by TruePoint Exploration (TruePoint) on behalf of Metallic Minerals Corp (MMG) on Settlemier Ridge (*herein* referred to as the Nazgul claims). This exploration program was in part funded through a YMEP Target Evaluation application. The 2019 work program occurred from July 21st to July 25th, cut short by the wildfires in the region and resulting helicopter availability, for a total of 27 man-days. The program consisted of staking eight additional claims (Nazgul 9-16) to the northwest of the original claim block; mapping, prospecting, and rock sampling along Settlemier Ridge; and 12 ridge-and-spur soil sampling lines. All assay results, certificates, as well as a description of the analytical techniques used, and location of all samples are provided. Current interpretations concerning mineralization-styles and geological setting are based on work-to-date are included, leading to recommendations for future exploration work. This report is supplemented by **Appendix I** (Statement of Expenditures), **Appendix II** (Batch Sheets & Assay Certificates), **Appendix III** (Rock Descriptions and Data), and **Appendix IV** (Soil Descriptions and Data). A total of \$31,915.40 was spent over the duration of the work program. Discrepancies with the Nazgul YMEP Statement of Expenditures are due to staking costs and associated wages which were not incorporated into this report.

1.1 Location & Access

The Nazgul claims are located approximately 40 km north of McQuesten Lake on NTS map sheet 106D/06. The claims encompass Settlemier Ridge and extend to the northwest, where they terminate near Settlemier Creek. This ridge trends to the southwest and branches into two separate spurs at the terminus of the ridge to the southwest. The Nazgul claims are bound by Carpenter Creek to the southeast of the ridge, and Settlemier Creek to the northwest. Carpenter Creek feeds into the Carpenter River, which is in the Beaver River drainage within the Selwyn Range of the southern Wernecke Mountains. Relative to MMG's McKay Hill project, the property is located 12 kilometres northeast, on the other side of ATAC Resources Rackla project, which falls within the Mayo Mining District. The work crew was based out of MMG's Keno crew house, located ~60 km to the south. The property is centered at 64° 29'14" N Latitude, 135° 11'54" W Longitude, and was accessed by helicopter from the townsite of Keno City, which is 64 kilometres south of the property, which is 465 km by road to Whitehorse. The closest road access is via Hanson Lake Road to McQuesten Lake from the Silver Trail Highway at km 102.1.

1.2 Land Tenure

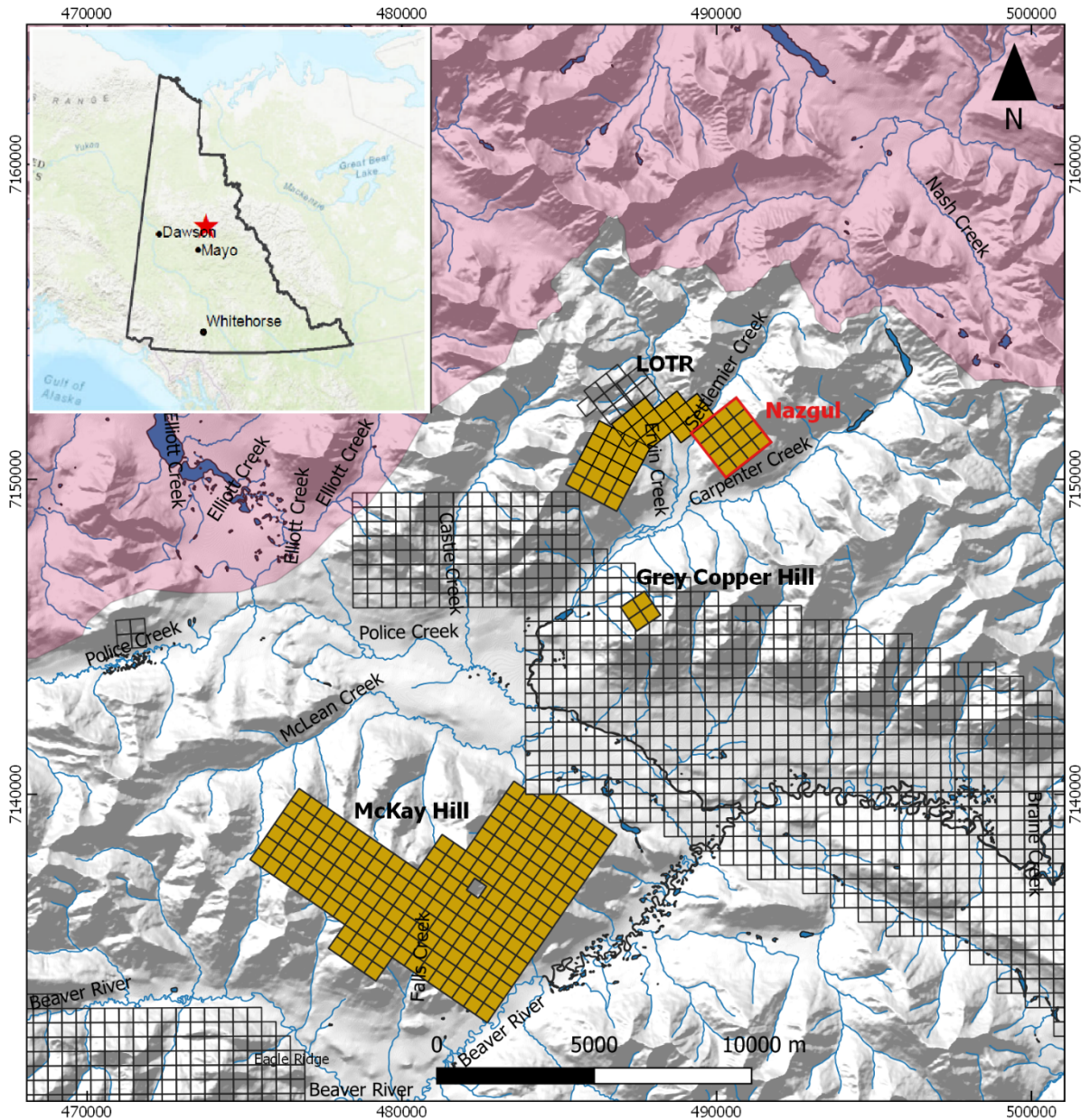
The Nazgul claims are located approximately 64 kilometers from Keno, Yukon, in the Mayo Mining district. The claims are located in the Selwyn Range of the Wernecke Mountains (see **Figure 1**, page 6) bounded by the Carpenter River to the south and Settlemier Creek to the north, in the Beaver River drainage, and is currently only accessible via helicopter. The project area is comprised of sixteen claims, Nazgul 1-8 (YF29293-YF29300) and Nazgul 9-16 (YF29079-YF29086), which have a total area of 3.316 km². All sixteen claims are 100% owned by MMG. Eight claims (Nazgul 9-16) were staked by TruePoint staff at the beginning of the work program (details can be found in section 5.1), while the other eight (Nazgul 1-8) were staked by MMG in July 2018. Prior to the 2018 work program completed by MMG, no previous assessment work has been filed on the claims comprising the Settlemier showing to the knowledge of MMG. **Table 1. Claim Status** (following page) tabulates the current land package and expiry dates; **Figure 2. Nazgul Claims Map** (page 7) shows the location of the claims. As seen in **Figure 2**, TruePoint Exploration staked the ground for MMG surrounding the Nazgul claims (Gondor and Moria claims) in November 2019 to consolidate the land package. These claims are now collectively known as the LOTR property.

Table 1. Claim Status¹

Grant #	Claim Name	Claim Owner	Expiry Date
YF29293	Nazgul 1	Metallic Minerals Corp. – 100%	2028-07-20
YF29294	Nazgul 2	Metallic Minerals Corp. – 100%	2028-07-20
YF29295	Nazgul 3	Metallic Minerals Corp. – 100%	2028-07-20
YF29296	Nazgul 4	Metallic Minerals Corp. – 100%	2028-07-20
YF29297	Nazgul 5	Metallic Minerals Corp. – 100%	2028-07-20
YF29298	Nazgul 6	Metallic Minerals Corp. – 100%	2028-07-20
YF29299	Nazgul 7	Metallic Minerals Corp. – 100%	2028-07-20
YF29300	Nazgul 8	Metallic Minerals Corp. – 100%	2028-07-20
YF29079	Nazgul 9	Metallic Minerals Corp. – 100%	2025-07-22
YF29080	Nazgul 10	Metallic Minerals Corp. – 100%	2025-07-22
YF29081	Nazgul 11	Metallic Minerals Corp. – 100%	2025-07-22
YF29082	Nazgul 12	Metallic Minerals Corp. – 100%	2025-07-22
YF29083	Nazgul 13	Metallic Minerals Corp. – 100%	2025-07-22
YF29084	Nazgul 14	Metallic Minerals Corp. – 100%	2025-07-22
YF29085	Nazgul 15	Metallic Minerals Corp. – 100%	2025-07-22
YF29086	Nazgul 16	Metallic Minerals Corp. – 100%	2025-07-22

¹ Claim expiry dates based on acceptance of submitted Assessment Report.

Figure 1. Location and Access



Legend

- Metallic Claims
- Areas Withdrawn from Staking
- Claims
- Waterbodies
- Watercourses


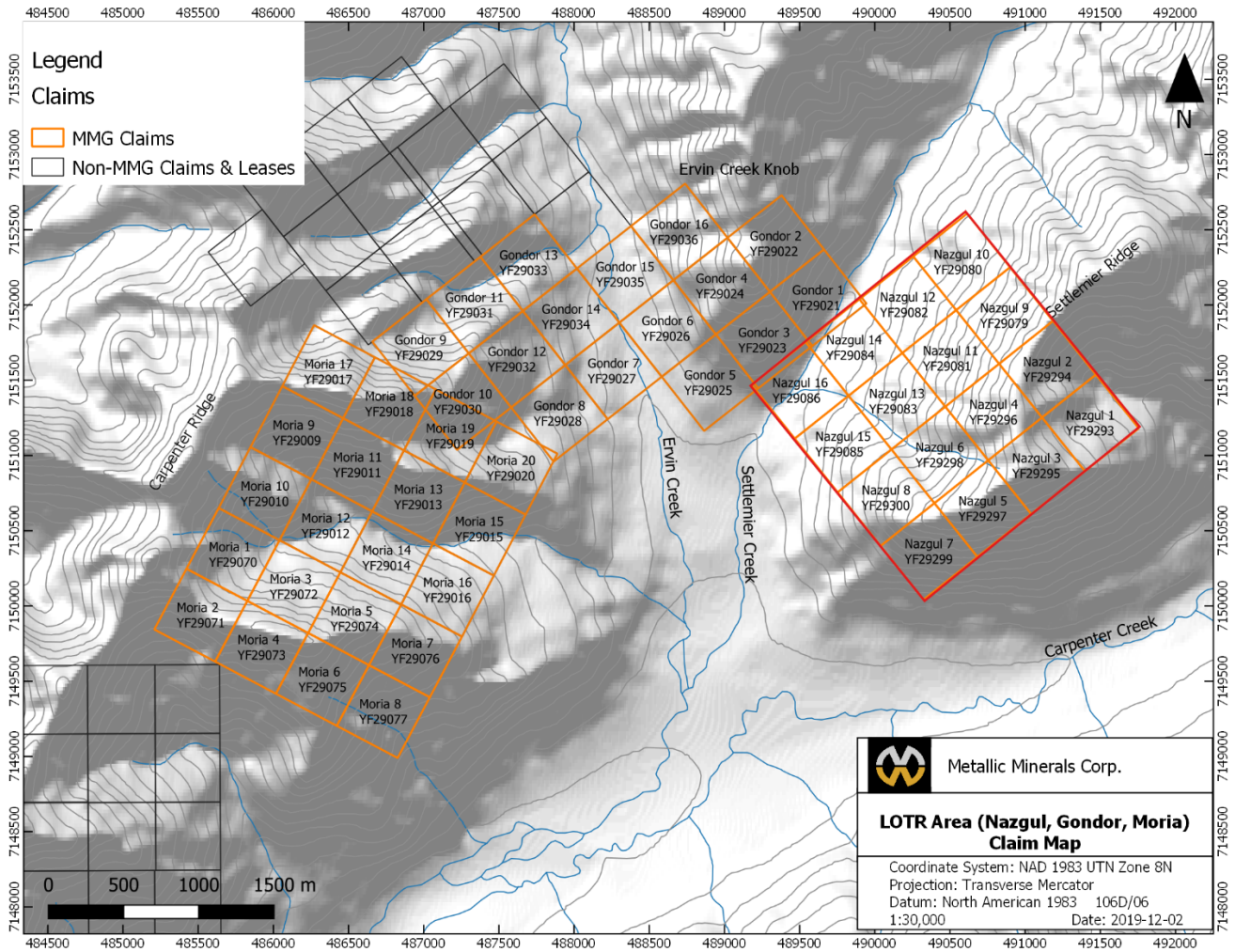
	Metallic Minerals Corp.
Nazgul Property Location Map	
Coordinate System: NAD 1983 UTM Zone 8N Projection: Transverse Mercator Datum: North American 1983 1:250,000 Date: 2020-01-10	

Figure 2. Nazgul Claims Map



1.3 Physiography & Climate

The Nazgul claims encompass Settlemier Ridge, which trends to the southwest, and is approximately 900m north of Carpenter River, and extend northwest to Settlemier Creek. Elevations within the claim area range from approximately 1000 to 1650m ASL. The area experiences warm summers and long cold winters with relatively little precipitation. In the Mayo area summer temperatures average 15°C during the day and 9°C at night. Winter temperatures average -20°C during the day and -31°C at night. Water is available from unnamed headwaters that feed into Settlemier Creek as well as from Carpenter River itself or Settlemier Creek if deemed necessary. The claims lie primarily above the tree line with sharp ridge-tops and steep slopes.



LEFT, Photo Plate 1. Settlemier Ridge looking SSW. Note the darker volcanic rocks in the distance and the distinctive orange weathered carbonates in the foreground. The sharp ridgelines and steep slopes are typical physiography for the claims.

2 Nazgul Claims - History

The Nazgul claims cover the Settlemier MINFILE occurrence (106D 043), which has been described as an MVT-type Pb-Zn deposit and has very little exploration performed on it to date aside from the brief YMEP-funded program in July of 2018. The Settlemier showing was staked in 1925, by J. McLean who performed hand-trenching in 1926. There is no public information on results/findings or grades. This original staking followed the Keno Hill staking rush, which resulted in prospectors venturing further north from Keno. During the 1920s these entrepreneurs gathered in 'Beaver City', a now-collapsed prospecting settlement which was located on the nearby Beaver River. **Table 2** (following page) is a compilation and summary of the limited work that has occurred in proximity to the Settlemier MINFILE occurrence. This information is primarily based on the YGS's MINFILE database (Deklerk and Traynor, 2008).

Table 2. Nazgul Claims - History

March 1925	Settlemier showing originally staked as Jack claim (16136) by J. McLean
1926	Hand-trenching performed by J. McLean. No public information on results. Claims lapse.
August 1962	Restaked as the Ram claim (82346) by P. Callison and L. Brown. No work recorded. Claims lapse.
July 2018	Eight claims staked as Nazgul 1-8 (YF29293-YF29300) by MMG. Prospecting, rock and soil sampling completed on the claims. Located the 'Gimli' vein in a historic trench and the 'Smeagol' vein in a historic hand-pit.

2.1 Settlemier (106D 043) Occurrence

Prior to work performed by MMG in 2018, no public data or work has ever been recorded on the Settlemier showing to the authors knowledge. The MINFILE details indicate that this occurrence is believed to be associated with MVT deposits. As mentioned above, MVT's are not typically associated with volcanic rocks or such appreciable levels of copper, and as such, it could be that this occurrence also represent a different deposit model. Historic work by McLean (1926) included hand-trenching but there is no public information on results/findings or grades. The MINFILE notes that the area was again staked in 1962, but with no work recorded.

This mineral occurrence was open for staking and staked as the Nazgul 1-8 claims by Metallic Minerals Corp. in July 2018. Mineralization observed during the 2018 program did not locate MVT-type mineralization but rather Ag-Pb-Zn±Cu veins with brecciated margins hosted along contacts with metasediments and volcanics with consistent steeply-dipping northwest-trending attitude and periodicity.

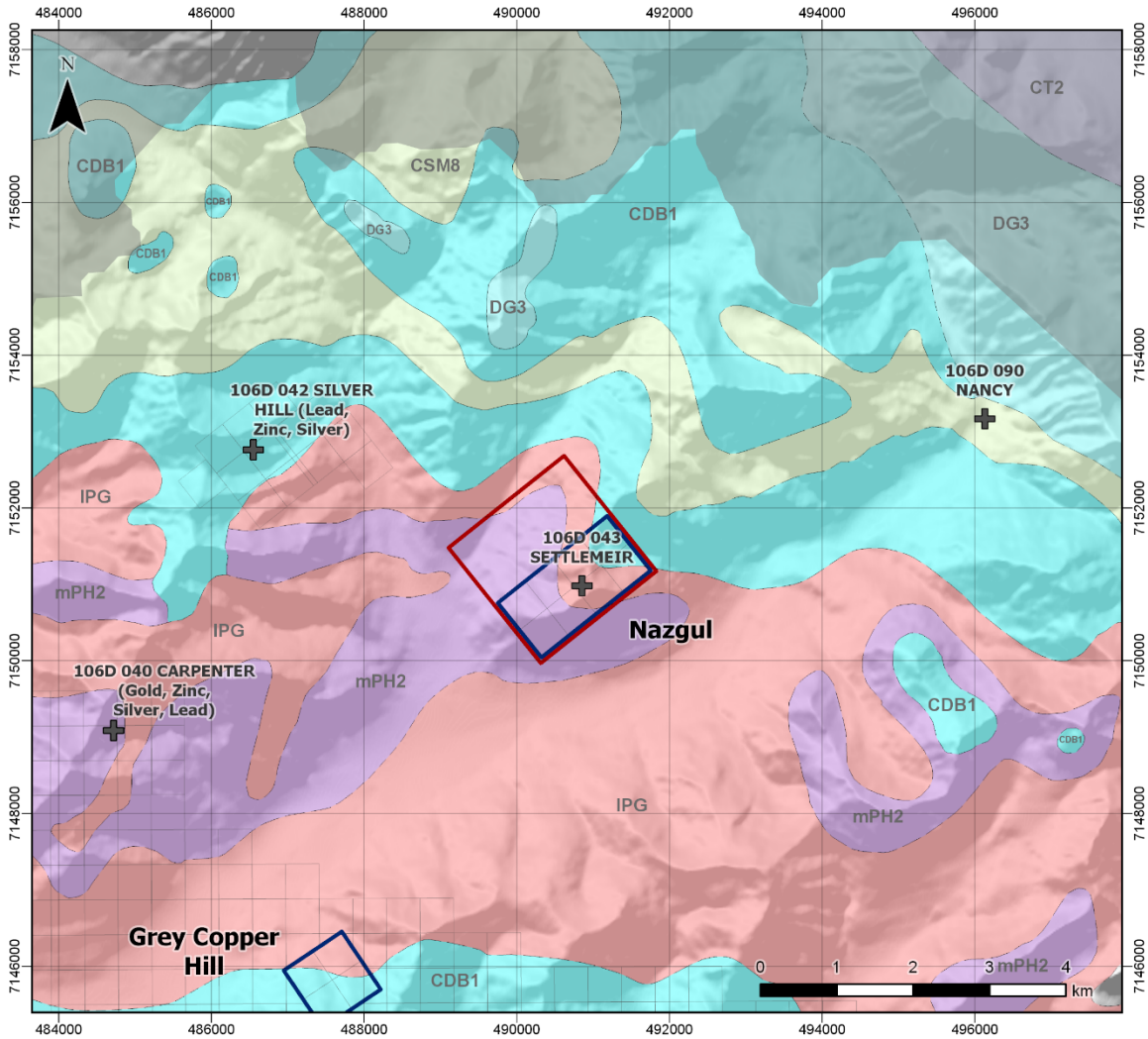
3 Regional and Property Geology

3.1 Regional Geology and Tectonic Setting

The Nazgul claims are located on the 1:250,000-scale Nash Creek (106D) map-sheet and the 1:50,000-scale Horseshoe Hill map-sheet (106D/06). This area was regionally mapped by L. Green (1972) of the Geological Survey of Canada (GSC) in 1961 as part of a helicopter-supported party known as 'Operation Ogilvie'. The area has not been remapped since 1961 and no 1:50,000-scale mapping is known in the area. Currently the region is said to be underlain by the Lower Proterozoic Gillespie Lake Group dolomite which has been intruded by Middle Proterozoic resistant dark-weathering diorite and gabbroic sills and dykes assigned to the Hart River Sills. **Figure 3** (following page) illustrates this current 1:250,000-scale regional geological interpretation.

The Nazgul claims are within the Omineca Belt in the Ancestral North American terrane. The Omineca Belt is composed of a poorly understood Neoproterozoic to late Paleozoic assemblage of alternating basin (Selwyn Basin) and platform (Mackenzie, Ogilvie, and Porcupine Platforms) sequences which occur in sheets distinguished by a series of regional scale thrust faults. The claims are within the Ogilvie Platform, which is part of the Yukon Block, which in turn sits directly north of the Selwyn Basin, bounded by the Mesozoic Dawson Thrust (Abbott, 1997). As noted by Abbott (1997), the Yukon Block is a complex assemblage which is approximately 6 km-thick and composed of primarily shallow marine carbonate and clastic rocks. Minor volcanics that have been dated between Lower to Middle Proterozoic are also present throughout.

Figure 3. Regional Geology



Regional Geology Nazgul

CARBONIFEROUS

CT2: TSICHU/KENO HILL: black to silvery shale or carbonaceous phyllite

LOWER AND MIDDLE DEVONIAN

DG3: GOSSAGE: limestone and dolostone

UPPER CAMBRIAN TO LOWER DEVONIAN

CDB1: BOUVETTE: grey and buff weathering dolostone and limestone

CAMBRIAN TO SILURIAN

CSM8: MARMOT: dark volcanic rocks, brown-weathering, grey-green, limy tuff and argillite

MESOPROTEROZOIC

mPH2: HART RIVER: diorite and gabbro sills and dikes

PALEOPROTEROZOIC

IPG: GILLESPIE LAKE: dolostone and silty dolostone, locally stromatolitic

Nazgul Regional Geology		
2019-03-13	NAD 1983 UTM Zone 8N	1:75,000
		Figure
Mapsheets: 106D11, 106D06		

- MinFile
- Faults**
- thrust, approximate
- thrust, inferred
- unknown, inferred

- Contacts**
- intrusive, approximate
- intrusive, defined
- intrusive, inferred
- stratigraphic, approximate
- stratigraphic, defined
- stratigraphic, inferred

- Areas withdrawn from Staking
- Nazgul Claims
- MMG Properties
- Claims

The Yukon Block is interpreted as a crustal block that is isostatically independent and bounded to the south by the Selwyn Basin, to the east by the Richardson Trough, with its western and northern boundaries still unclear at this time (Abbott, 1997).

As seen in **Figure 3** (page 10), as mapped by Green, the Nazgul claims are underlain by three major units: the Hart River intrusives which encompass the southwestern half of the claims the Gillespie Lake group in the centre of the claims and the Bouvette assemblage in the upper northeast corner of the claims.

Abbot (1997) notes that the Hart River sills and dykes (gabbroic to dioritic) intrude the Gillespie Lake carbonates, and often thin dykes are structurally repeated. The mineralogy of these sills and dykes are noted to generally be pervasively altered to a matrix of sericite, amphibole, chlorite, and trace carbonate. Along with intrusives, a report by Abbott notes that the *“Gillespie Lake group contains the Hart River volcanics, an interval of mafic lava flows and laterally equivalent, laminated tuffs, bounded above and below by black shale”* (1993).

The Gillespie Lake group (Lower Proterozoic), which is documented as encompassing the central portion of the claims, is distinguished by the presence of orange to buff coloured dolostone which tends to be platy and thinly bedded (Abbott, 1997). This group tends to be well-bedded with variable amounts of shales, silts, and locally, sands. Gordey & Makepeace (2003) describe the group similarly, but also note that stromatolites are present throughout, along with local chert nodules and sparry karst infillings which are interbedded with siltstones, shales, quartz-rich sandstones, laminated mudstones, and local dolostone boulder conglomerates. Green (1972) notes that some of the higher summits are underlain by greenstone sills, which are interpreted to be the Hart River volcanics as mentioned above.

In the northeastern tip of the claims is the Bouvette assemblage, which is Upper Cambrian to Lower Devonian in age, and is characterized by grey to buff dolostone and limestone (which tend to be medium to thickly bedded), minor argillaceous limestone (black and platy), conglomeratic limestone, and black shale (Gordey & Makepeace, 2003). This unit is distinguished from the Gillespie Lake by the lesser amounts of clastic sediments. This unit appears to unconformably overlie the Gillespie Lake group.

While not documented by Green, numerous reports describing mapping efforts by reputable geologists in the area included volcanic packages. Over the winter of 2017-18, MMG found reports (Cockfield, 1924; Bostock, 1957; ARM files- ‘Castle Ridge & Reef Projects’ –Dynasty Exploration Ltd & Cyprus Anvil., 1970s) describing volcanic rocks in an area approximately 17 km northeast of McKay Hill on the other side of the Rackla belt. The Rackla belt is hosted in Upper Cambrian to Lower Devonian Bouvette Group (Limestones) and this package is presumed to be fault (thrust) – bound. Dynasty Exploration Ltd. 1970s mapping campaigns (on the Newt & Lingham MINFILE occurrences to the northeast) also delineated an extensive package of volcanic tuffs on-trend². This corresponds with the Abbott’s (1993) report that notes tuffs can be found within the Gillespie Lake Group as Hart River volcanics. One other important note from Abbott states that *“near Carpenter Ridge...the writer [unpublished data] has recognized previously unmapped lava flows and associated mafic sills in the Gillespie Lake Group. This area between the Hart River deposit and Carpenter Ridge has not been recently mapped and may have potential for new discoveries”* (1993). From this evidence, the volcanics mapped and documented along Settlemier

² Refer to ARM files listed in the Bibliography section of this report.

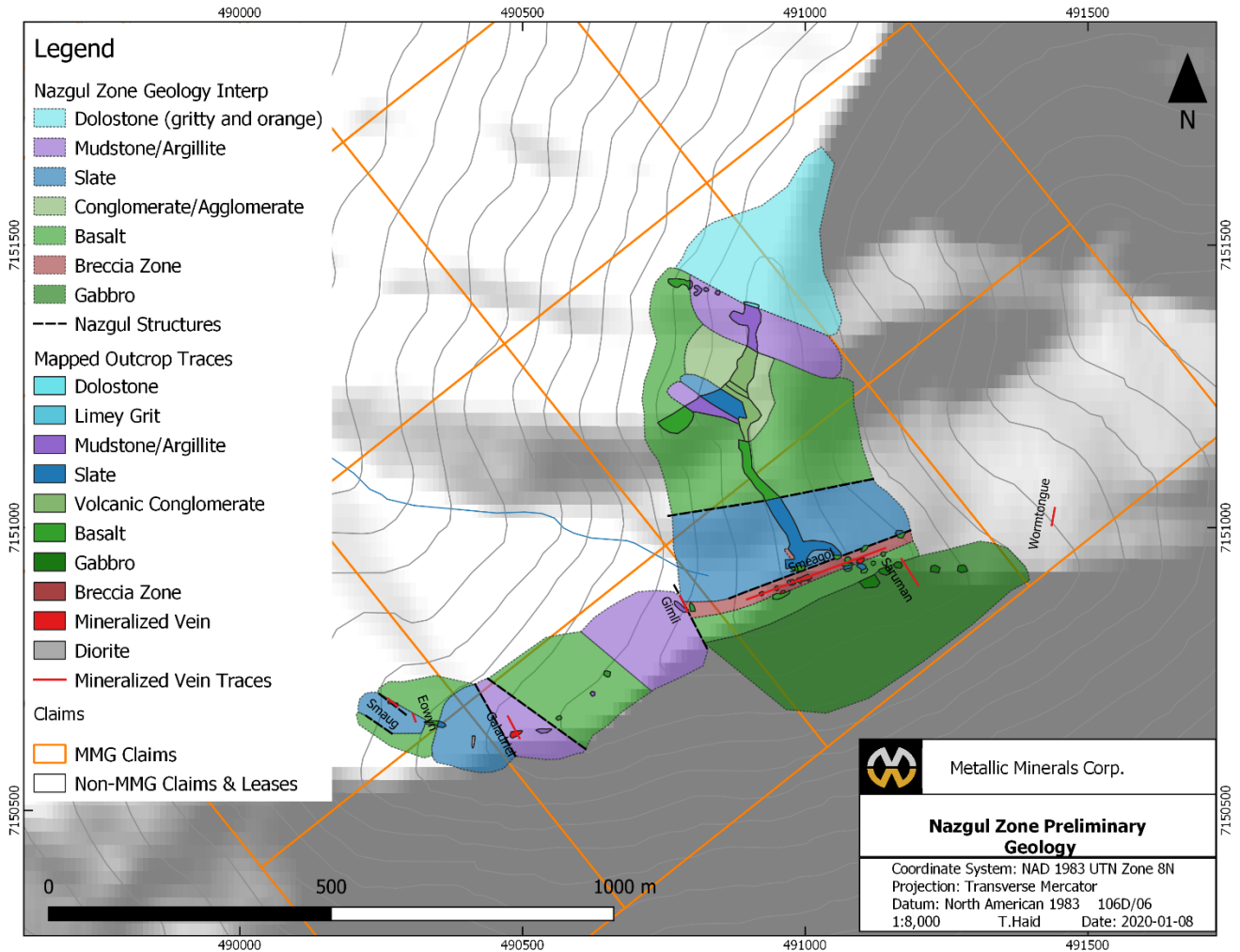
Ridge are most likely undocumented extrusives of the Hart River formation and may be the Mesoproterozoic volcanic equivalent to the Ordovician-Silurian Marmot Group (volcanics) currently thought to underlie McKay Hill.

3.2 Property Geology

Following several days of mapping over the 2019 exploration program at Nazgul, an initial property-scale geological map (1:8,000) was generated and can be seen in **Figure 4** (following page). Very preliminary documentation of lithologies present on the prospecting traverses were noted during the 2018 program, and further refined during the 2019 program (refer to Section 5.4 for further details and discussion). Cliff-forming gabbro is present in the southeast portion of the claims and is believed to be the basal stratigraphy on the claims. Highly silicified mudstones (grading to siltstones) ± slates cut by meter-scale interfingering dioritic dykes, with bleached halos that often extend 3-5m into the country rock, are in contact with highly-altered basalts grading to polymictic volcanic agglomerate. Quartz-calcite veins with brecciated margins are prevalent along these contacts between the silicified sediments and the dioritic dykes. Mineralization is present as primarily galena ± tetrahedrite along these contacts, with selvage zones bleeding into the country rock which include disseminated sulphides. Overlying these units is a gritty dolomite with a distinctive orange buff colour, which is interpreted to be the Gillespie Lake Group.

The mapped volcanic and metasedimentary units generally follow regional strike (280-300°) and dip steeply to the north. In the northern section of the map, at the contact of dolostone, the strike is between 270-290° and dips shallowly to the north.

Figure 4. Property Geology



4 Mineralization Style & Deposit Type

The Settlemier MINFILE occurrence (106D 043) documents the deposit type as MVT-style Pb-Zn. With no work ever recorded on this area prior to 2018, this has not been corroborated. However, presence of volcanics (basalts, gabbros ± tuffs), which aren't typically associated with MVT's, points to potential for epithermal-style mineralization. Additionally, the Silver Hill occurrence to the west has relatively high silver values for an MVT-showing (no geochemical data is available for the Settlemier showing outside of the data presented in this report).

As detailed in the 2018 Nazgul Assessment Report (AR 097242), mineralization (Ag-Pb-Zn-Cu) was identified on the Nazgul claims during the 2018 exploration program. The discovery of galena-rich veins, and highly brecciated mineralized corridors at Settlemier Ridge indicate that this occurrence needs to be reevaluated regarding deposit-type. Mineralization is generally present within fault-bound breccia-healed vein contacts between volcanics and metasediments. Alteration zones are present proximal to the Ag-Pb-Zn mineralization as strong to pervasive manganese and iron(-carbonate) oxides. Copper mineralization was also locally identified (in the Saruman vein area) as chalcopyrite nodules and malachite staining along fractures. **Photo Plate 2** (following page) depicts the mineralization that has

been identified to date at Nazgul. Similar mineralization was identified during the 2019 season, which corroborates a potential epithermal origin.

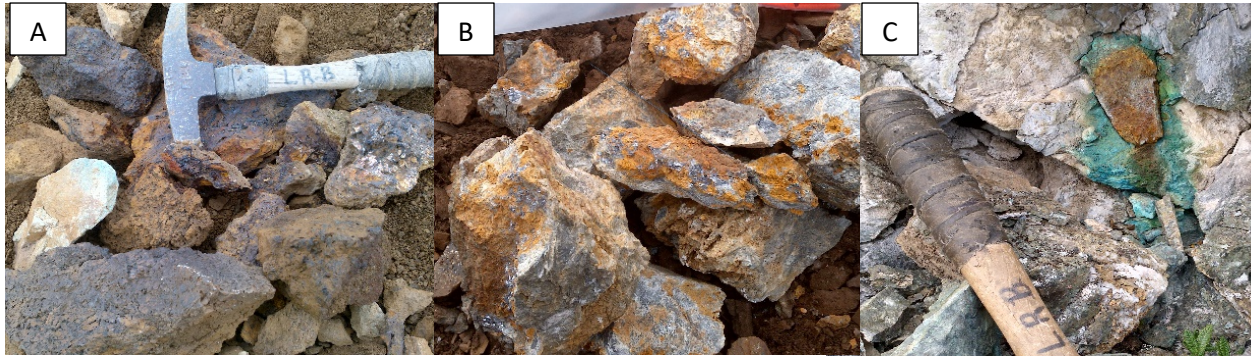


Photo Plate 2. (A) Typical alteration zones proximal to mineralization with strong to pervasive manganese and iron(-carbonate) oxides; (B) Gimli vein Ag-Pb-Zn mineralization on Nazgul claims; (C) Cu-mineralization (Saruman) on Nazgul claims as chalcopyrite nodules and malachite staining along fractures.

5 2019 Work Program

The 2019 exploration program at the Nazgul claims was completed over July 21st to July 25th, totaling 27 man-days. The program consisted of staking eight additional claims (Nazgul 9-16) to the northwest of the original claim block, prospecting, rock sampling along Settlemier Ridge, 12 ridge-and-spur soil sampling lines, and property-scale mapping. A total of \$31,915.40 was spent over the duration of the work program.

In summary, the exploration program included:

- Staking of the Nazgul 9-16 claims to the northwest between Settlemier creek and the Nazgul 1-8 claims
- Prospecting and rock sampling to identify further mineralization on the claims, which included traverses along the ridgeline and secondary spurs;
- 12 ridge-and-spur and contour soil lines; and
- Grid mapping at 1:2,500 along Settlemier Ridge.

5.1 Staking

Due to the successful discoveries on the Nazgul claims during the YMEP-funded 2018 exploration program, it was decided to expand the Nazgul claim block to the northwest in order to encompass the mapped strike of mineralized structures. With this rationale, TruePoint staff performed a modest staking program over this area on July 21st, 2019, adding eight (8) claims (Nazgul 9-16) following the NE-SW trend of the original claims. These eight claims total 165.8 hectares, with the total Nazgul claim package encompassing 331.6 hectares. The claim details can be seen in **Table 1** (page 5) and a claim map in **Figure 2** (page 7).

5.2 Prospecting

TruePoint staff conducted four days of expanded prospecting and sampling over the Nazgul claims, with focus on Settlemier Ridge and secondary spurs where outcrop could be found. Due to the steep and

razor-sharp ridges, there is little to no outcrop exposure off the ridges and spurs. The primary objective was to expand upon the discoveries made during the previous year, which had highlighted two mineralized zones, which were named Gimli and Smeagol (see **Figure 4**, page 13). The Gimli structure was the name given to the 15 m-long historic open cut that was identified by MMG in 2018. It is still believed that this working comprises the Settlemier MINFILE occurrence. Smeagol was the name given to the structure that was identified in 2018 encompassing a historic hand pit with a galena-rich dump pile. Due to the limited nature of the 2018 program, a focus was put on expanding these known mineralized zones in 2019, as well as prospecting further northeast and southwest along the ridge in the prospective volcanic package for further mineralized structures.

The Smeagol hand pit was revisited in 2019 and through detailed mapping and prospecting the structure was traced 160m along strike (open on both sides), with an estimated thickness of up to 20m. The Smeagol structure is a breccia-healed fault zone; but unlike the other veins discovered to date, which have a $\sim 290\text{-}300^\circ$ trend matching stratigraphy, the Smeagol vein strikes $\sim 240^\circ$ with altered slate on the hanging wall (NW), and pervasively altered basalt along the footwall (SE). This breccia zone is pervasively argillic altered and healed by quartz-calcite-ankerite-clay. Mineralization is present as clots of galena within the highly altered healed breccia. Phyllite fragment rip-ups in this breccia zone are common.

Traversing downslope from Smeagol towards the east, there was a transition from basalt to large cliff-forming gabbroic rocks (coined the Cliffs of Isenring), which dominate the eastern side of Settlemier Ridge. A malachite stained fracture face was identified and upon further investigation it was found that a coarsely crystalline calcite vein—striking 160° and dipping $\sim 30\text{-}40^\circ$ SW—hosted copper mineralization as malachite-azurite-chrysocola. A second location 30m-north of this corroborated the above find and extended strike length on this vein - coined the Saruman vein. At this station, chalcopyrite nodules up to 8 x 3 cm in size were found along the contact of euhedral calcite and host gabbro (refer to **Photo Plate 2C**).

Continuing east from the Saruman vein, a quartz-calcite-ankerite vein was identified in outcrop, striking 030° and dipping 38° SE, titled the Wormtongue vein. This vein contained trace chalcopyrite and malachite and appears to be hosted in gabbros or chlorite altered basalts.

Further traverses were completed along the sharp ridge to the southwest to further refine the lithologies present along with potential mineralized zones. As noted during the traverse in 2018, the southwest portion of Settlemier Ridge is composed of an alternating succession of metasediments (argillite, siltstone, slate) and volcanics (silicified and pervasively altered basalt, diorite sills). These contacts generally strike $280^\circ\text{-}300^\circ$ and quartz veins tend to occur at the contacts of these two lithologies. Three veins were discovered on the southwest traverses, named the Galadriel, Eowyn, and Smaug veins (see **Figure 4**, page 13).

Galadriel is a quartz-carbonate-ankerite vein striking $\sim 330^\circ$ with sooty galena mineralization (<5%) hosted in a carbonaceous fault-bound breccia zone that is 90m-wide. Galena mineralization can be found both within vugs of the quartz vein, and as sooty replacement of the surrounding pervasively altered host rock. This zone is characterized by pervasive manganese alteration which makes protolith identification difficult. This vein can be seen in **Photo Plate 3** (following page).

The Eowyn vein is found 170m-WSW of Galadriel and is of similar character, but with far less galena. Eowyn surface trace trends $\sim 345^\circ$ and is a quartz-ankerite-healed breccia hosted within carbonaceous metasediments.

Forty meters west of the Eowyn vein, lies the Smaug structure, which is a vein system that is hosted along a faulted and brecciated contact between graphitic siltstones/mudstones and pervasively altered basalt. This structure has an approximate strike of 308° and dip of 42° SW, is 8m-wide, and silica flooded. Along the footwall (basalt contact) of this structure is a milky quartz-ankerite vein with up to 10% galena present as sooty replacement along the vein-host rock contact. Replacement increases from hanging-wall to footwall, and the prominent mineralization is found along the footwall contact.



Photo Plate 3.
LEFT: Typical mineralization collected from the Smaug vein.
RIGHT: Mineralized sample (1497454) from the Galadriel vein.

Overall, prospecting during the 2019 exploration program was deemed highly successful, with the delineation of five brand new veins and vein systems, three of which reported moderate to high tenor Ag-Pb±Zn,Cu mineralization. Selected geochemical results can be seen in **Table 3** (below), with anomalous values in bold. **Figures 5-8** (pages 17-20) illustrate the compiled rock geochemical results for the 2019 Nazgul work program.

Table 3. Summary of Nazgul Rocks – Selected 2019 Samples and Results

Sample #	Vein	Easting	Northing	Ag (g/t)	Au (g/t)	Pb (%)	Zn (%)	Cu (%)
1481732	Smeagol	490989	7150907	8.2	0.0006	2.07	0.01	0.005
1481734	Smeagol	490961	7150886	28.9	0.0019	5.57	0.005	0.005
1481735	Saruman*	491193	7150908	11	0.0021	1.21	0.19	1.19
1481736	Saruman*	491179	7150932	3.8	0.00025	0.03	0.02	3.12
1481738	Smaug*	490277	7150688	50.4	0.0089	7.46	1.35	0.03
1481740	Smaug*	490277	7150688	74.8	0.0075	11.53	2.98	0.02
1497453	Galadriel*	490497	7150639	37.8	0.0017	4.25	1.48	0.04
1497454	Galadriel*	490482	7150638	66.8	0.0025	8.35	0.92	0.02

*Newly discovered veins in 2019

5.2.1 Rock Sampling & Geochemical Analysis

Twenty (20) samples were collected along Settlemier Ridge within the Nazgul claims and sent for geochemical analysis (refer to **Appendix II** for full results and **Appendix III** for rock descriptions). Samples were sent to Bureau Veritas in Whitehorse for assaying and multiple packages were used to properly evaluate the precious metal concentrations, from low- to high-grade. Sample preparation consisted of crushing, split and pulverize 250 g of rock to 200 mesh. Sample splits of 0.5 g were then leached in hot modified Aqua Regia (partial digestion). Thirty grams of the total sample were then analysed for 36 elements using inductively coupled mass spectrometry (ICP-ES/MS) analytical technique. Samples with

over limit ($\geq 0.01\%$) Cu, Pb and Zn concentrations were assayed by titration and over limit (≥ 10 ppm) Au and Ag samples were analysed by fire assay and gravimetric methods.

As seen in **Table 3** above and in **Figures 5-8** (pages 17-20), there were three locations of highly elevated silver-lead-zinc samples and one location of elevated copper samples which were collected from the Nazgul claims in 2019. Several samples (1481732 & 1481734) were collected along the strike of the brecciated Smeagol structure, returning grades of 5.57% Pb and 2.07% Pb, respectively. The remaining highest assays all came from newly discovered veins during the 2019 work program. The Saruman vein returned values of 1.19% Cu (Sample 1481735) and 3.12% Cu (Sample 1481736). The mineralization seen at Saruman is unique on the Nazgul claims, and further work will be needed to identify its relationship to the Ag-Pb-Zn mineralization elsewhere on the claims. Along the southwest terminus of Settlemier Ridge were the newly discovered Galadriel and Smaug veins. At Galadriel, sample 1497454 returned values of 66.8 g/t Ag, 8.35% Pb, and 0.92% Zn. The highlighted sample from Smaug is sample 1481740, which assayed 74.8 g/t Ag, 11.53% Pb, and 2.98% Zn. These highly promising new discoveries and results indicate that this is an extremely promising project that will require increased exploration efforts in the coming years to develop the economic potential observed to date.

Figure 5. Rock Chemistry – Ag

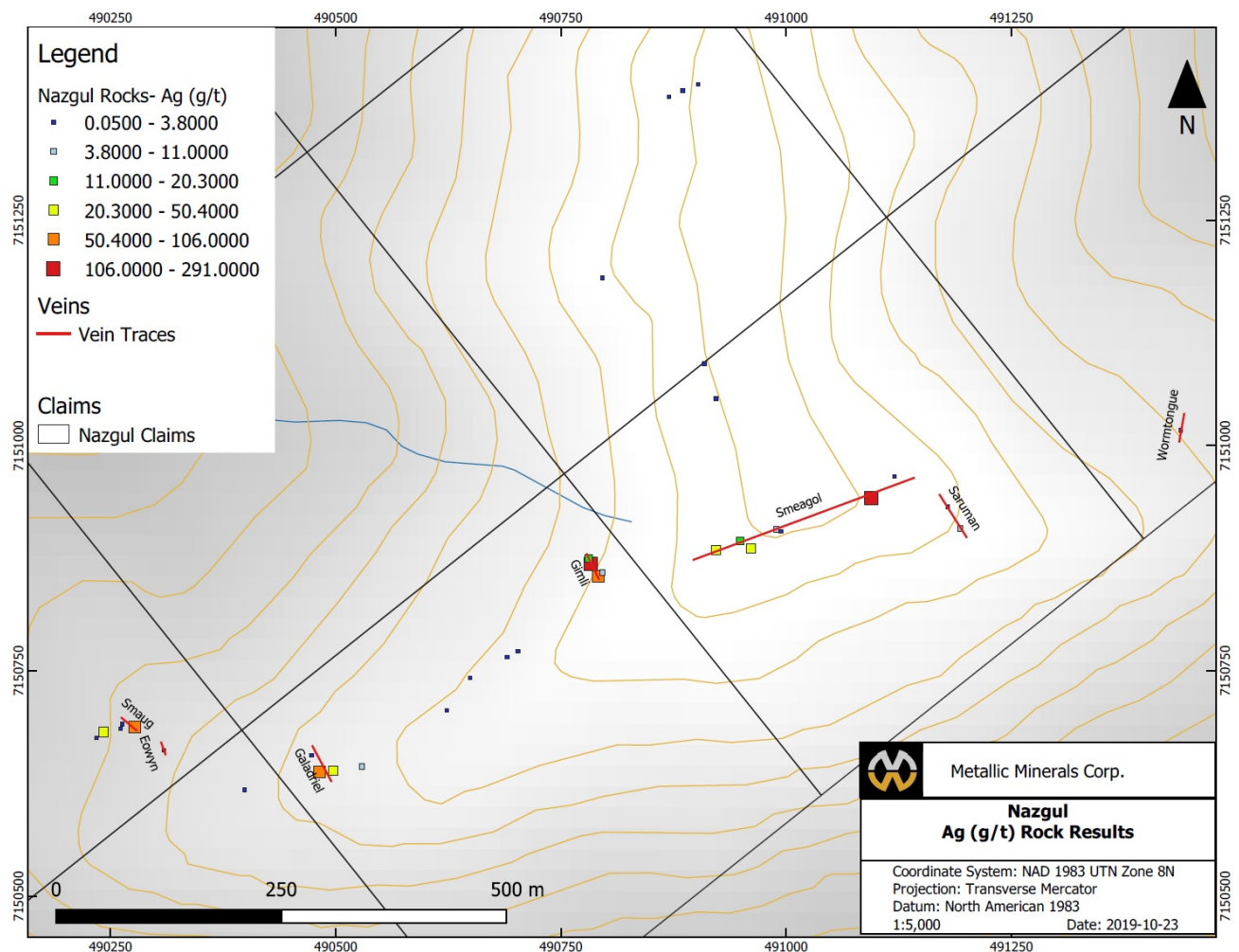


Figure 6. Rock Chemistry – Pb

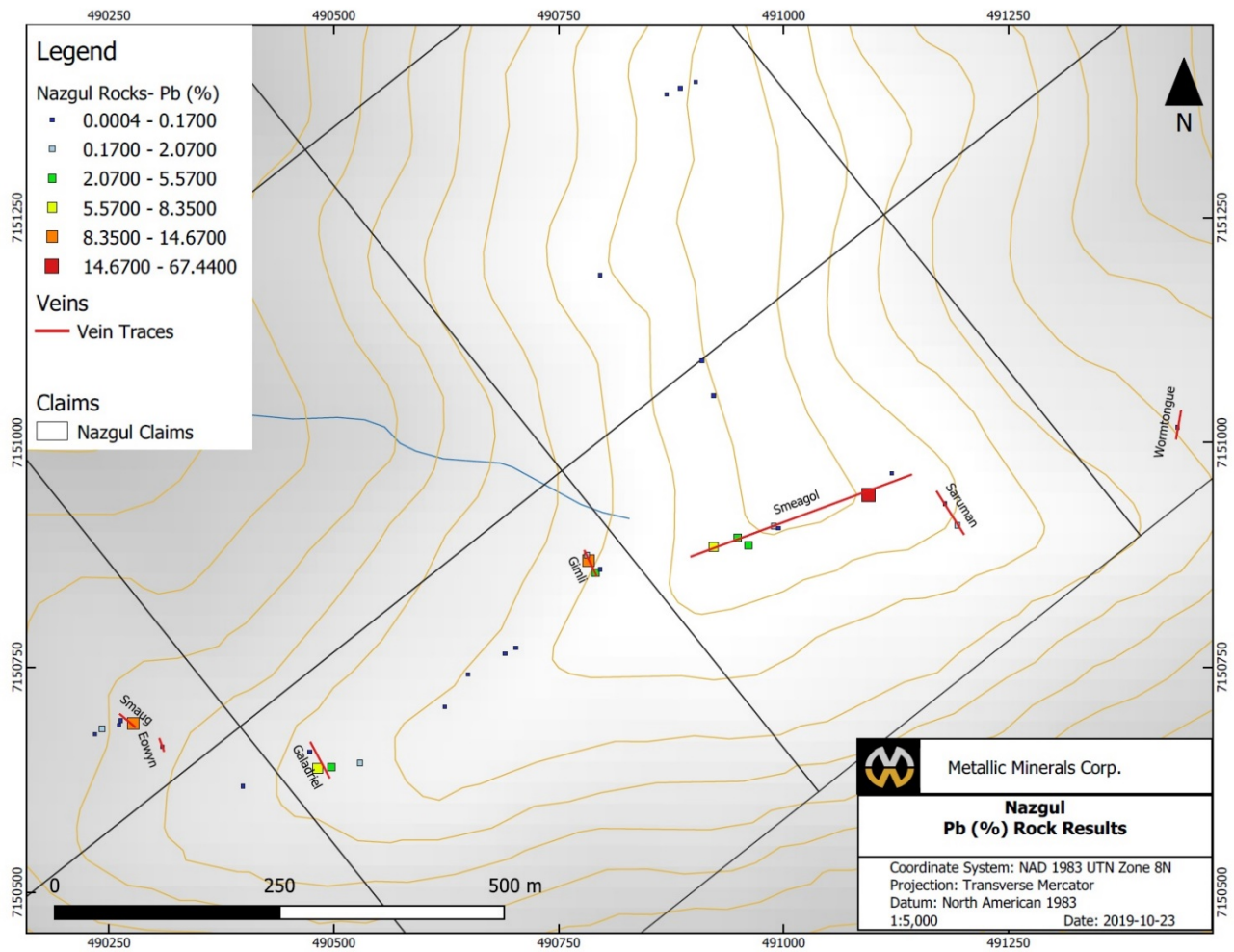


Figure 7. Rock Chemistry – Zn

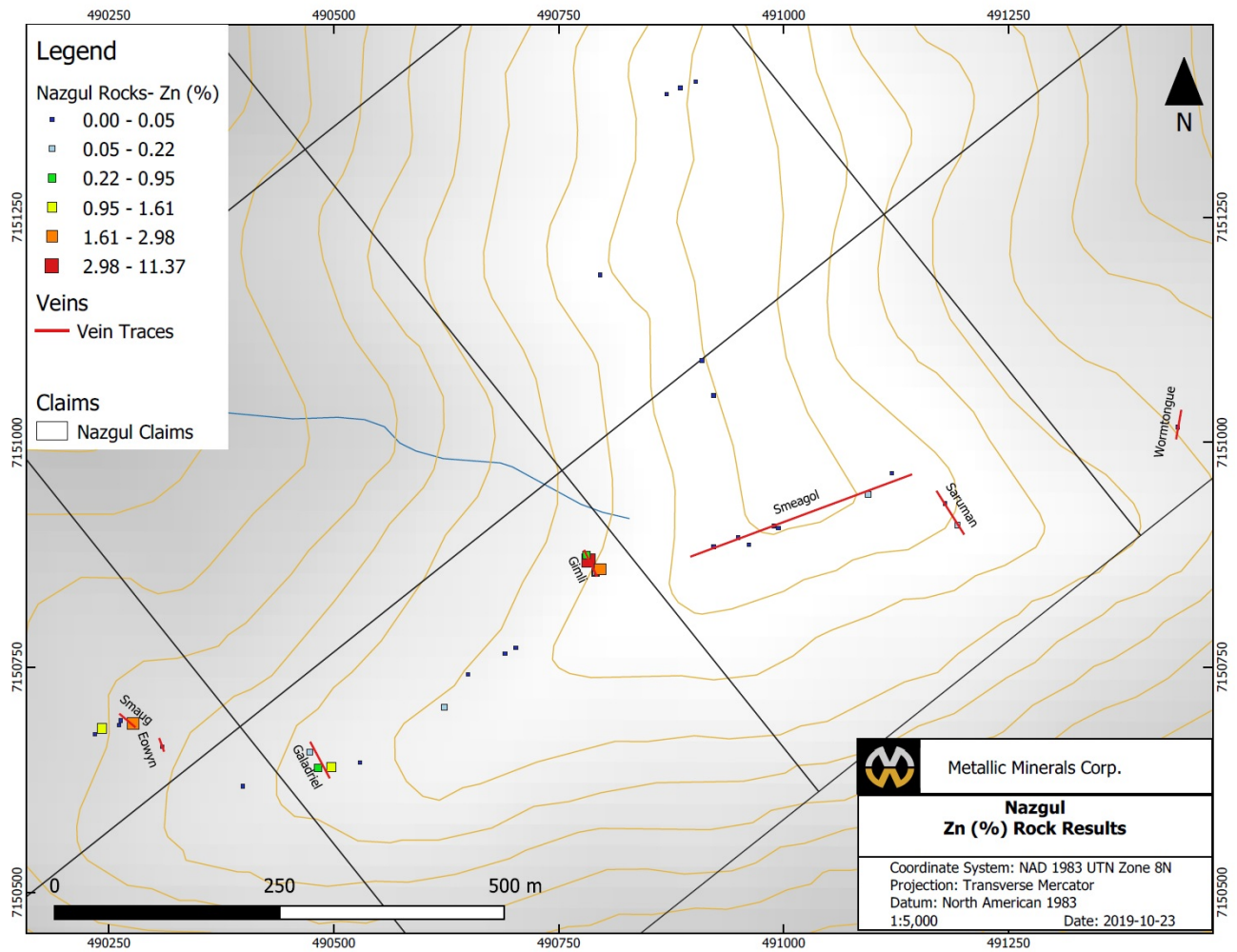
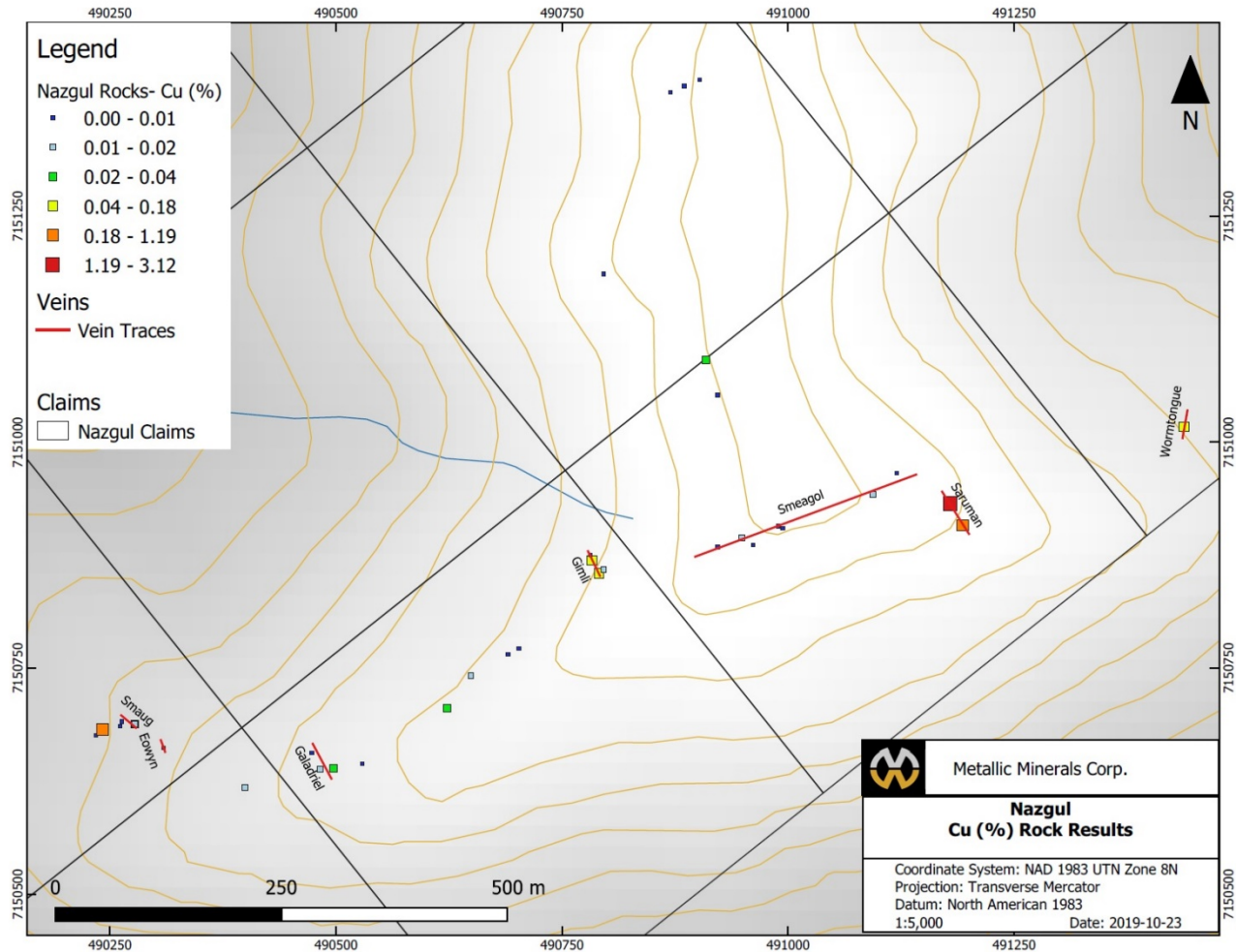


Figure 8. Rock Chemistry – Cu



5.3 Soil Sampling

Soil sampling was performed on the ridge and multiple spurs at Settlemier Ridge, with the aim of identifying anomalous silver, gold, lead, zinc, and copper values in soil. Three soil samplers completed the work and collected ridge-and-spur and contour soil samples at 50m intervals (refer to **Figures 9-12**, pages 21-24, for geochemistry and soil locations) for a total of 222 soils. Missed samples were the result of talus covered slopes. Each sample was collected from the B/C horizon.

5.3.1 Soil Sampling Results and Interpretation

Samples were collected in Kraft soil sample bags and shipped to Bureau Veritas in Whitehorse for assaying to evaluate the precious metal concentrations present. Sample preparation consisted of drying the samples at 60°C, followed by sieving 100 grams of the samples to -80 mesh. These samples were then leached in hot modified Aqua Regia (partial digestion). Finally, 15 grams of the total sample were then analysed for 36 elements using inductively coupled mass spectrometry (ICP-ES/MS) analytical technique. Refer to **Appendix II** for full results and **Appendix IV** for soil descriptions). As seen in **Figures 9-12** (pages 21-24), elevated geochemical values for elements of interest primarily were concentrated in the southern portion of the claim block, which corresponds with the volcanic and metasedimentary packages. Soil samples collected in the northern portion of the claims, where the values generally drop

off, corresponds with the large carbonate package which was mapped (see **Figure 4**, page 13). Values for Ag, Pb, and Zn are consistent with highs along the ridge where veins have been identified. Outliers to the northwest may be due to movement of mineralized rock or fluid migration downslope, but warrant follow-up in 2020, especially the anomalous sample ~500m to the northwest of the Smaug structure, which is along a spur descending into the tree line.

Results returned from copper values were of high interest. As seen in **Figure 12** (page 24), there are multiple zones of elevated copper values in soil, including a concentration around the Saruman and Wormtongue veins. Follow up prospecting and soil sampling will aid in extending these known mineralized zones. Likewise, there is a highly anomalous value that is on trend with the ~160° striking Saruman vein, located 400m to the northwest of the vein. Perhaps this is the extension of the vein along the other side of the ridge. Lastly, just to the west of the fault bounding the Galadriel vein is a line of three anomalous soils trending ~290°, which aligns with a mapped diorite dyke. This dyke was documented to be pervasively argillic altered and silicified, with a visual estimation of 10% chalcopyrite and pyrite. This dyke was not sampled in 2018 or 2019 but will be of high priority for 2020. Future soil sampling at Nazgul will encompass grid sampling of the newly staked claims, which may aid in highlighting mineralized zones in the lower lying vegetated areas.

Figure 9. Soil Chemistry – Ag

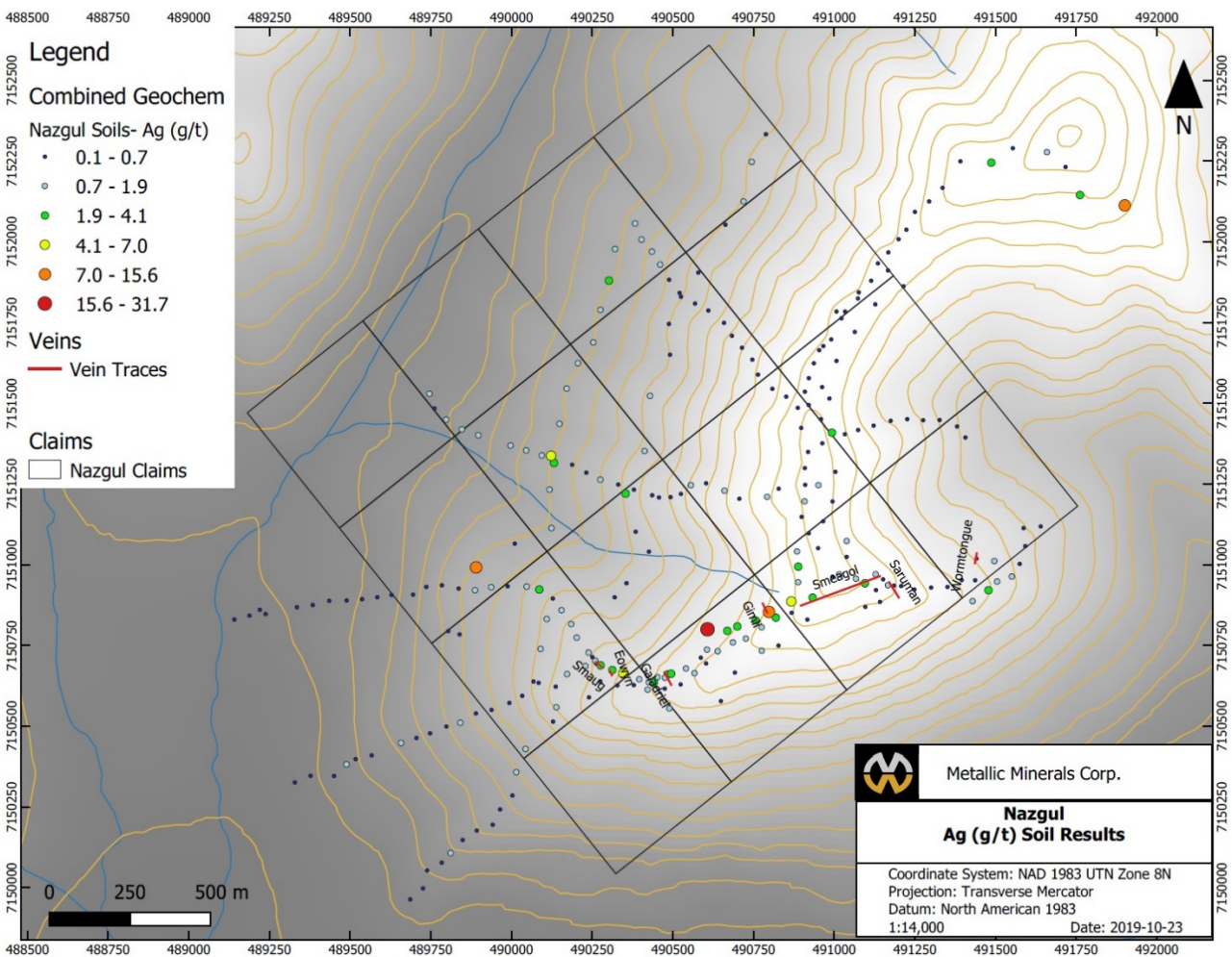


Figure 10. Soil Chemistry – Pb

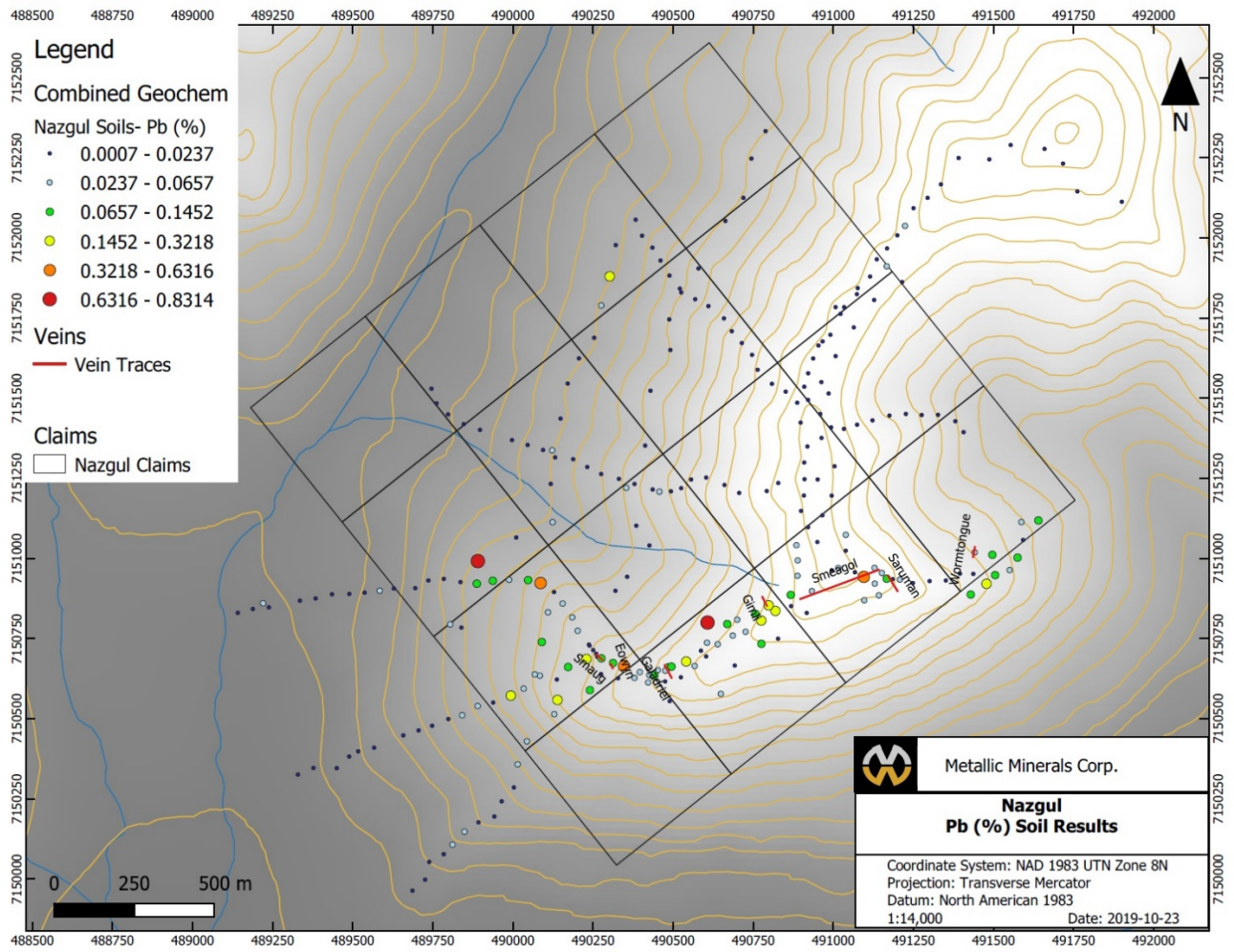


Figure 11. Soil Chemistry – Zn

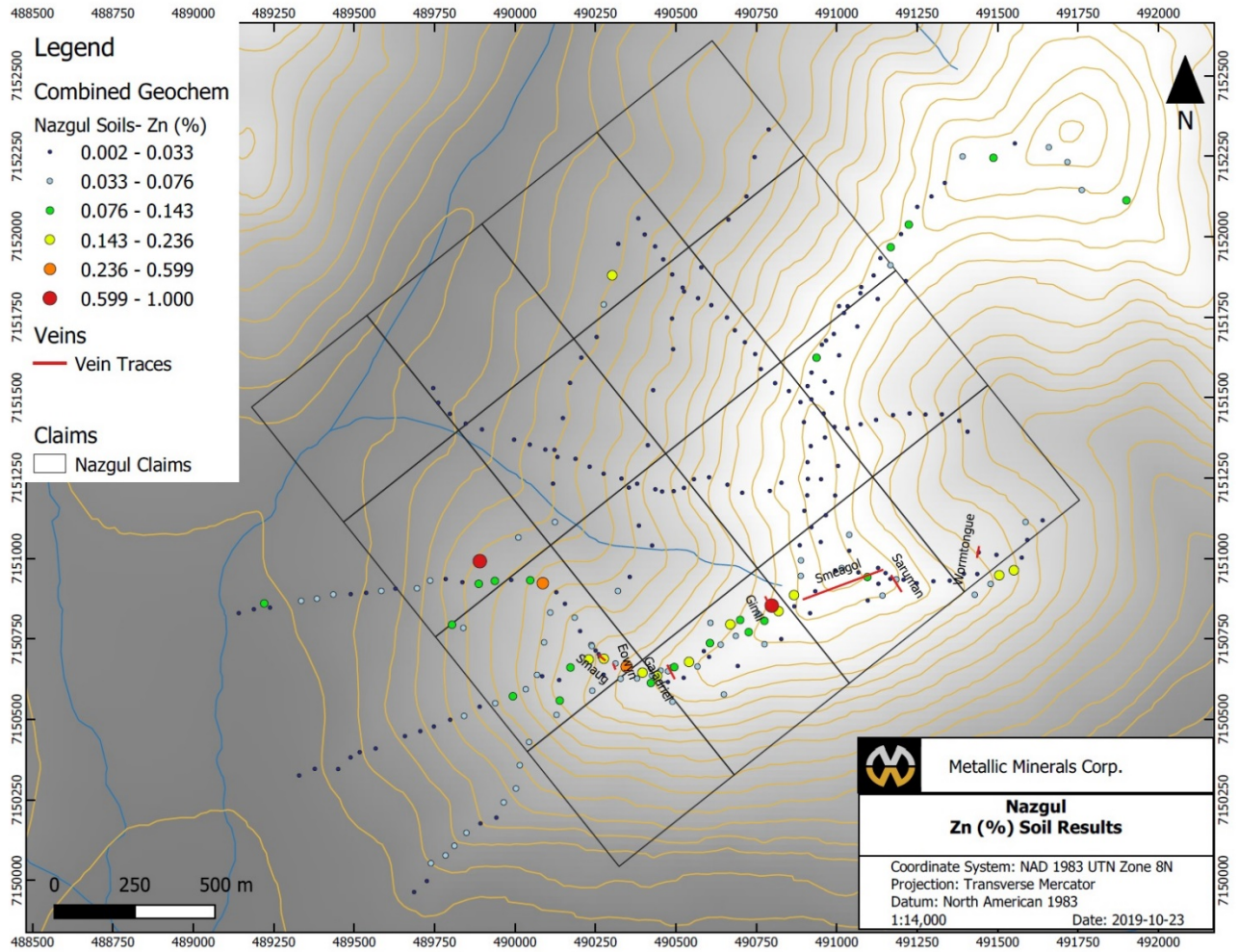
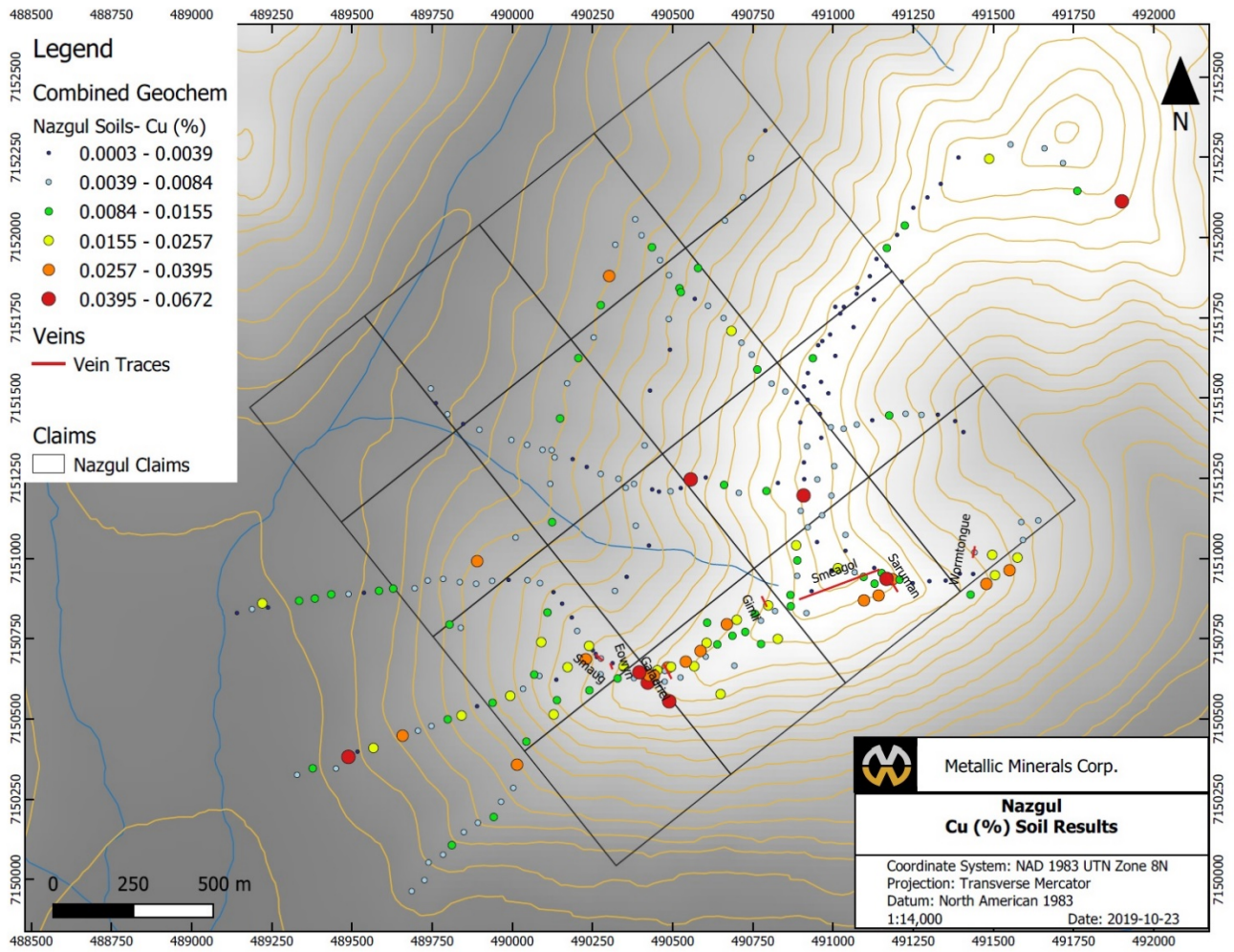


Figure 12. Soil Chemistry – Cu



5.4 Property-Scale Mapping

Mapping was completed by TruePoint staff during prospecting traverses, with focus on building a better understanding of the stratigraphy and lithologies present on the Nazgul claims. A preliminary property-scale map can be seen in **Figure 4** (page 13). 1:2,500-scale grid mapping occurred along Settlemier Ridge, where the majority of outcrop is present on the claims. As noted in **Section 3.2**, the Nazgul claims cover variable volcanics and metapelites in the south, and gritty dolostone to the north (see **Photo Plate 4**, below).

The mapped volcanic and metasedimentary units generally follow regional strike (280-300°) and dip steeply to the north. In the northern section of the map, at the contact of dolostone, the strike is between 270-290° and dips shallowly to the north. The contact between the variable volcanics and metapelites and the dolostone is along a faulted saddle, where distinctive orange dolostone can be found to the north, and argillite to the south. The red dotted line in **Photo Plate 4** denotes this contact. Further detailed mapping needs to be completed in order to confirm if this contact is indeed the contact between the Gillespie Lake group and the Hart River Group, or if the metasediments south of this contact are also Gillespie Lake group. It has been previously documented that the Hart River volcanics intrude into the Gillespie Lake group, with Abbott (1993) noting that mafic sills (gabbro present on the claims?) up to 250m-thick along with overlying mafic lava flows (basalts and agglomerates present on the claims?) and tuffs which are bounded by black shale have been seen to intrude into the dolomitic siltstones and grit.

Another mapping problem that arose during the 2019 work program was the anomalous mapped strike of the slate unit that bounds the Smeagol breccia structure to the northwest and altered basalt to the southeast. While the majority of contacts strike 280-300°, the Smeagol breccia zone appears to strike 240°. Further detailed mapping will allow for an understanding of the relationship between the structure and associated mineralization.

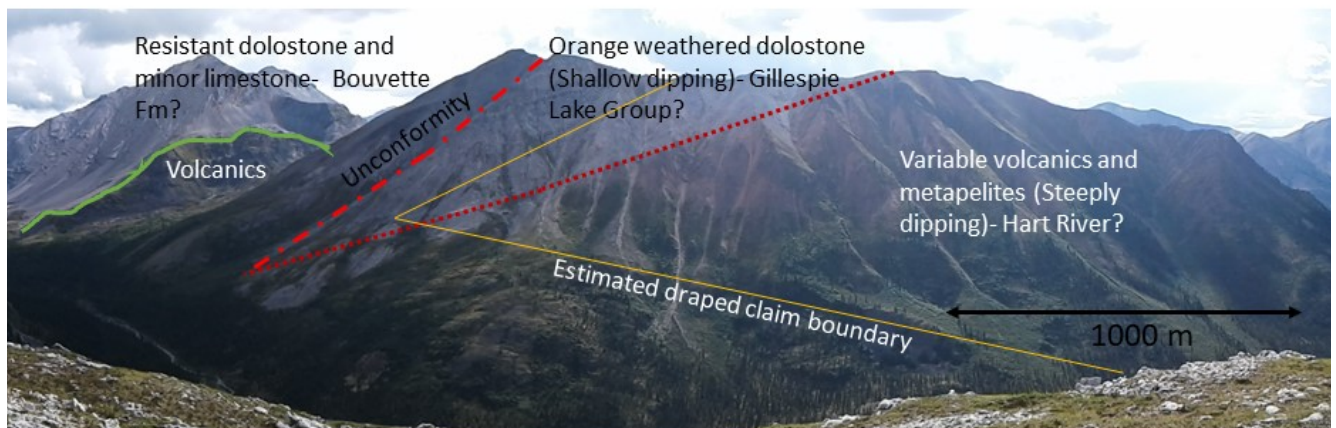


Photo Plate 4. Nazgul claims along Settlemier Ridge (looking due east). Stratigraphic relationships are easily seen. Exploration focus is centred on the variable volcanics and metapelites.

6 Conclusions and Recommendations for Future Work

The 2019 exploration program on the Nazgul claims was deemed very successful, delineating more newly discovered mineralized zones and completing the pre-season objectives for the work program. These objectives included: staking of eight additional claims to the northwest, increased ridge-and-spur and contour soil sampling, property-scale mapping, and the identification of additional in-situ mineralization through prospecting.

The five-day program completed in July of 2019 led to the discovery of five brand new vein structures, three of which reported anomalous Ag-Pb±Zn, Cu. Coupled with the single day of exploration performed in 2018, the six days of exploration at Settlemier Ridge by MMG and TruePoint has proved to be extremely fruitful, with the full target potential still to be defined through expanded exploration programs in the coming years on the Nazgul and surrounding claims.

Ridge-and-spur and contour soil sampling has highlighted future targets, and mapping has led to the development of a preliminary understanding of the lithologies and deposit styles present. The veins themselves appear to represent Ag-Pb-Zn±Cu epithermal-style mineralization, with similarities to the mineral showings at McKay Hill to the southwest.

Traverses along the ridge revealed a consistent succession of dioritic intrusions along with basaltic and agglomeratic flows which regularly cut the host sediments. At these contacts (which generally trend ~280°-300°), mineralized quartz veining and breccia zones were common, with associated sulphide mineralization along the contact which often bleed into the host sediments. Further work needs to be completed on assessing the potential of these small, localized skarn-type mineralization systems, which could supplement the epithermal-style mineralization also on the claims.

The Nazgul claims are multiple kilometers from the known showings at Silver Hill to the northwest. As a result, the full extent of base-metal mineralization along this corridor was assessed as part of a small exploration program which led to staking of claims to the northwest of the Nazgul claims. The claims staked to date in this region (Nazgul, Moria & Gondor) comprise the LOTR property. Work programs will commence on these new claims (Moria & Gondor) added to form the LOTR property in 2020.

6.1 Recommendations for Future Work

The discoveries on the Nazgul claims and resulting work has highlighted multiple areas of interest. Seven vein structures have been identified, with many samples returning highly anomalous base-metal geochemistry. As a result, the following is recommended for the 2020 field season and beyond:

- Grid soil sampling at 50m-spacing over the claim block, especially on the newly staked claims to discern possible vein extensions;
- Detailed property-scale mapping;
 - Continued assessment on the association between the recurring intrusive dykes on the claims and their association to mineralization;
- Prospect previously identified mineralized float trains down slope to potentially identify further in situ mineralization and extend known strike of mineralized veins; and
- Perform trenching across all known accessible mineralized veins (Gimli, Smeagol, Galadriel, and Smaug) by hand or with a helicopter-portable excavator;
- Prospecting via drone aerial photography on steeper portions of the claim block; and
- TerraSpec analysis along ridgelines to characterize and vector mineralization via clay chemistry.

7 Bibliography

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8 Statement of Qualifications

I, Lauren Blackburn, of the City of Whitehorse, in the Territory of Yukon, HEREBY CERTIFY:

1. That I am a Yukon-based geologist and have worked on the project during the summers of 2018 and 2019.
2. That I am a graduate of the University of Alberta (B.Sc. Geology, 2007).
3. That I have been engaged in mineral exploration and development and have worked on a full-time basis in Yukon Territory and Mexico since 2006 and in northern Canada (NU, NWT, YT, northern BC) since 2005.
4. That I am an employee of TruePoint Exploration (2019 – present). TruePoint is the exploration arm for MMG to which I have been employed since 2017.
5. I consent to the use of this report by Metallic Minerals Corp. for application, assessment and/or regulatory and financing purposes deemed necessary.

Dated at Whitehorse, Yukon Territory this 10th day of February 2020.



Lauren Blackburn B.Sc.
TruePoint Exploration
53A Linville Road, PO Box 10495
Whitehorse, Yukon Y1A 7A1

I, Taylor Haid, of the City of Vancouver, in the Province of British Columbia, HEREBY CERTIFY:

1. That I am a geologist based out of Vancouver and have worked on the project during the summer of 2018 and 2019.
2. I am a graduate of the University of Regina (B.Sc. Hons Geology, 2014), and of Western University (M.Sc. Geology & Planetary Science, 2016).
3. I have worked in the field of geology and mineral exploration in Canada (SK, NU, ON) part-time since 2011 (including roles as a geology summer student), and full-time in Yukon Territory and British Columbia since 2016.
4. That I am an employee of TruePoint Exploration (2019 - present). TruePoint is the exploration arm for MMG to which I have been employed since 2018.
5. I consent to the use of this report by Metallic Minerals Corp. for application, assessment and/or regulatory and financing purposes deemed necessary.

Dated at Vancouver, British Columbia this 10th day of February 2020.



Taylor Haid M.Sc.
TruePoint Exploration
1201-1323 Homer Street,
Vancouver, BC, V6B 5T1

Appendix I. Statement of Expenditures



Statement of Expenditures - Summer 2019 Program (July 23 - July 25th 2019)

Prospecting, Mapping & Soil Sampling

<i>Labour</i>	No. of Days	Rate	Total
Lauren R. Blackburn - Senior Geologist*	3	\$600.00	\$1,800.00
Mike Linley -Staker, Geotech*	3	\$450.00	\$1,350.00
Taylor Haid - Geologist	3	\$450.00	\$1,350.00
Dick Brost - Soil Sampler	3	\$315.00	\$945.00
Pat Livingston - Soil Sampler	3	\$315.00	\$945.00
			\$4,500.00

Geochemical Assaying

	Quantity	Price/Sample	Total
Rocks	20	\$24.00	\$480.00
Soils	221	\$22.00	\$4,862.00
			\$5,342.00

Daily Expenses (Food, field supplies, etc)

	Days	Rate	Total
5 man-crew + Pilot (\$100/day each)	3	\$600.00	\$1,800.00
			\$1,800.00

Transportation

	No	Rate	Total
Helicopter - Hughes 520	12.9 hrs	\$1,350.00	\$17,415.00
Fuel - Jet A (\$1.40/L)	1806 L	1.40/L	\$2,528.40
			\$19,943.40

Accommodations

	Days	Rate	Total
Bottle House rental - Keno	3	\$110.00	\$330.00
			\$330.00

GRAND TOTAL =	\$31,915.40
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**Does not include preparation work completed on July 18 & 19th.*

****Staking completed on Jul/21; claims registered Jul/22**

Appendix II. Batch Sheets & Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: True Point Exploration Inc.
904 – 409 Granville St.
Vancouver British Columbia V6G 1T2 Canada

Submitted By: Scott Petsel
Receiving Lab: Canada-Whitehorse
Received: August 01, 2019
Report Date: August 23, 2019
Page: 1 of 9

CERTIFICATE OF ANALYSIS

WHI19000298.1

CLIENT JOB INFORMATION

Project: Nazgul
Shipment ID: NAZ19-01
P.O. Number
Number of Samples: 222

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
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: True Point Exploration Inc.
904 – 409 Granville St.
Vancouver British Columbia V6G 1T2
Canada

CC: Samantha Dyck
Lauren Blackburn

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	222	Dry at 60C			WHI
SS80	222	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	222	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	222	Per sample shipping charges for branch shipments			VAN

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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: True Point Exploration Inc.
904 – 409 Granville St.
Vancouver British Columbia V6G 1T2 Canada

Project: Nazgul
Report Date: August 23, 2019

Page: 2 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1895001	Soil	1.4	73.4	648.6	579	<0.1	40.0	21.9	886	3.58	9.4	1.0	2.9	15	1.3	1.0	0.3	82	0.32	0.045	13
1895002	Soil	1.6	163.3	2053.0	1099	0.4	60.7	27.5	1571	4.10	10.8	2.5	2.8	17	2.7	1.2	0.2	88	0.44	0.047	10
1895003	Soil	2.1	117.1	170.5	428	0.5	45.9	14.2	805	2.96	16.9	3.3	5.2	32	2.6	2.2	0.3	66	4.29	0.068	14
1895004	Soil	1.0	37.5	517.8	276	0.4	28.0	25.0	2336	4.08	10.2	0.6	1.1	32	1.9	0.8	0.2	132	1.04	0.066	4
1895005	Soil	2.5	256.1	276.9	393	1.0	30.4	27.5	1183	3.02	11.7	5.2	1.3	78	1.6	1.9	0.1	87	2.98	0.088	5
1895006	Soil	0.4	148.6	82.0	220	0.5	16.5	11.7	517	1.56	3.6	2.4	0.9	70	1.4	1.8	<0.1	47	3.55	0.075	3
1895007	Soil	0.8	75.8	84.2	171	0.1	59.0	31.3	805	6.70	7.6	1.2	2.6	14	0.2	1.2	0.2	241	0.85	0.039	10
1895008	Soil	1.6	48.7	113.5	264	0.4	44.5	18.3	784	4.05	23.8	2.6	4.0	24	1.0	1.7	0.3	86	1.67	0.046	18
1895009	Soil	1.2	339.1	52.3	245	0.9	37.4	38.9	1060	3.90	21.7	28.0	2.3	37	0.8	1.0	0.3	95	0.89	0.056	14
1895010	Soil	0.8	212.7	78.3	189	0.5	38.9	28.3	1045	5.36	15.7	3.0	2.4	39	0.7	1.4	0.2	186	1.51	0.067	11
1895011	Soil	0.7	16.7	33.7	74	<0.1	18.1	8.1	394	1.78	3.8	0.7	1.8	78	0.3	0.5	<0.1	32	13.76	0.065	8
1895012	Soil	1.7	5.2	25.2	58	0.1	7.4	3.1	500	0.71	12.0	<0.5	0.6	63	0.3	0.9	0.2	9	14.31	0.015	3
1895013	Soil	4.2	16.0	72.1	122	0.2	12.5	4.7	841	1.45	25.1	0.8	0.7	93	0.4	1.4	0.8	10	17.14	0.016	3
1895014	Soil	3.7	62.8	25.8	48	0.2	30.2	17.6	2044	3.72	23.2	9.1	1.2	65	0.2	1.8	0.8	34	10.50	0.028	5
1895015	Soil	2.0	82.1	24.6	100	0.3	47.8	27.8	4431	5.48	12.9	5.0	3.6	17	0.2	2.0	0.5	37	1.98	0.054	12
1895016	Soil	1.1	114.2	17.9	53	0.6	20.1	14.9	2877	3.62	7.6	9.8	4.4	15	0.2	1.6	0.7	30	0.57	0.036	18
1895017	Soil	0.8	52.5	14.5	79	0.5	23.7	20.9	5622	5.70	6.1	2.9	4.7	13	0.2	1.3	0.4	22	0.34	0.076	19
1895018	Soil	1.0	72.0	71.7	169	0.7	39.4	29.3	4793	5.36	24.6	2.6	1.4	25	0.5	1.9	0.5	20	1.91	0.137	12
1895019	Soil	0.7	191.2	34.9	131	0.5	42.1	37.3	4792	7.84	9.4	10.6	2.9	16	0.2	1.2	0.3	62	0.67	0.106	17
1895020	Soil	1.3	41.5	73.0	119	0.3	25.5	18.2	1898	4.63	13.9	3.2	2.0	15	0.3	2.0	0.5	36	0.69	0.092	18
1895021	Soil	1.5	42.7	73.0	110	0.5	24.7	16.2	1789	4.51	20.3	1.5	1.4	14	0.3	2.5	0.4	23	0.91	0.106	17
1895022	Soil	1.1	22.4	47.4	93	0.2	39.3	52.3	2183	7.80	20.5	2.6	4.6	12	0.3	1.9	0.6	43	1.34	0.072	11
1895023	Soil	0.7	113.5	105.9	169	0.3	62.8	33.0	1560	6.36	8.6	3.1	1.3	24	0.4	1.2	0.3	174	0.70	0.070	7
1895024	Soil	1.8	54.8	97.4	89	0.6	21.6	20.2	1622	3.97	17.1	3.5	1.2	24	0.3	3.3	0.9	27	1.20	0.129	13
1895025	Soil	5.4	70.4	109.1	72	1.1	56.5	21.1	1003	4.20	23.5	2.7	4.1	15	0.2	8.1	0.6	18	0.56	0.065	19
1895026	Soil	4.1	87.3	152.4	106	1.4	48.2	17.7	925	3.45	20.5	5.9	4.9	28	0.3	8.1	0.6	14	1.50	0.063	15
1895027	Soil	3.7	70.5	142.5	106	1.2	39.6	13.6	796	3.06	16.7	5.7	4.2	25	0.3	7.1	0.4	12	1.55	0.073	16
1895028	Soil	3.5	72.8	159.6	113	1.3	38.7	14.4	902	3.22	16.9	6.4	4.1	23	0.3	6.8	0.7	14	1.55	0.068	17
1895029	Soil	2.1	52.8	154.8	382	0.2	28.9	12.6	512	3.48	12.5	1.9	4.7	13	0.6	1.3	0.3	85	0.33	0.025	15
1895030	Soil	4.2	88.1	274.0	836	0.7	56.5	18.4	1129	3.70	20.5	3.6	3.2	23	3.4	2.4	0.4	79	1.45	0.060	18



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Report Date: August 23, 2019

Page: 2 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1895001	Soil	83	0.82	136	0.050	3	2.19	0.007	0.06	0.2	0.03	4.9	0.2	<0.05	8	<0.5	<0.2
1895002	Soil	179	1.52	95	0.049	3	2.87	0.008	0.06	0.1	0.03	7.3	0.2	<0.05	7	<0.5	<0.2
1895003	Soil	34	3.05	105	0.051	2	1.22	0.010	0.06	0.2	0.06	4.4	0.2	<0.05	4	0.5	<0.2
1895004	Soil	28	1.17	80	0.065	<1	1.54	0.006	0.11	<0.1	0.07	11.4	0.2	<0.05	6	<0.5	<0.2
1895005	Soil	15	0.93	68	0.041	5	1.08	0.006	0.05	<0.1	0.08	7.1	0.2	0.10	4	2.9	<0.2
1895006	Soil	12	0.68	107	0.045	3	0.81	0.007	0.05	<0.1	0.10	4.7	0.1	0.15	2	1.2	<0.2
1895007	Soil	95	3.80	127	0.365	2	3.71	0.008	0.54	<0.1	0.03	23.1	0.8	<0.05	12	<0.5	<0.2
1895008	Soil	42	1.63	130	0.125	2	1.84	0.009	0.08	0.1	0.07	6.4	0.2	<0.05	5	<0.5	<0.2
1895009	Soil	29	0.68	199	0.033	2	1.96	0.007	0.06	0.1	0.07	8.8	0.2	<0.05	6	0.7	<0.2
1895010	Soil	44	2.44	147	0.163	2	2.80	0.007	0.19	<0.1	0.05	18.5	0.3	<0.05	9	0.6	<0.2
1895011	Soil	28	5.86	90	0.135	2	0.74	0.009	0.05	0.1	0.01	2.3	<0.1	<0.05	2	<0.5	<0.2
1895012	Soil	5	8.84	61	0.006	<1	0.12	0.008	0.01	<0.1	0.05	0.8	0.5	<0.05	<1	<0.5	<0.2
1895013	Soil	6	10.14	61	0.005	<1	0.10	0.022	0.01	<0.1	0.19	1.3	0.7	<0.05	<1	<0.5	<0.2
1895014	Soil	36	6.59	134	0.008	1	0.74	0.008	0.02	<0.1	0.07	13.8	0.3	<0.05	2	<0.5	<0.2
1895015	Soil	41	1.52	233	0.006	2	1.07	0.005	0.07	<0.1	0.09	13.3	0.4	<0.05	2	<0.5	<0.2
1895016	Soil	19	0.59	129	0.029	2	0.92	0.011	0.05	0.1	0.07	5.1	0.1	<0.05	3	<0.5	<0.2
1895017	Soil	18	0.69	116	0.017	2	1.13	0.009	0.06	<0.1	0.06	8.2	0.1	<0.05	3	<0.5	0.2
1895018	Soil	19	0.49	74	0.007	4	0.64	0.005	0.04	<0.1	0.13	4.0	0.2	<0.05	1	0.7	<0.2
1895019	Soil	21	0.72	99	0.011	3	1.32	0.006	0.06	0.1	0.11	13.3	0.1	<0.05	3	0.5	<0.2
1895020	Soil	26	0.44	119	0.018	3	1.21	0.009	0.06	0.1	0.04	4.1	0.2	<0.05	3	<0.5	<0.2
1895021	Soil	18	0.39	70	0.010	3	0.78	0.005	0.05	<0.1	0.10	4.1	0.2	<0.05	2	0.6	<0.2
1895022	Soil	29	1.87	82	0.010	2	1.99	0.004	0.05	<0.1	0.04	12.5	0.2	0.11	5	0.5	<0.2
1895023	Soil	176	2.89	104	0.091	2	3.11	0.007	0.09	<0.1	0.04	25.9	0.2	<0.05	9	<0.5	<0.2
1895024	Soil	21	0.67	62	0.013	3	1.02	0.008	0.06	<0.1	0.09	3.4	0.2	<0.05	3	<0.5	0.4
1895025	Soil	11	0.43	23	0.003	2	0.53	0.002	0.07	<0.1	0.11	4.4	0.2	<0.05	1	0.8	<0.2
1895026	Soil	8	0.65	22	0.004	5	0.34	0.003	0.07	<0.1	0.15	4.0	0.2	<0.05	<1	1.3	<0.2
1895027	Soil	7	0.71	20	0.004	3	0.35	0.003	0.08	<0.1	0.12	3.5	0.1	<0.05	<1	0.9	<0.2
1895028	Soil	8	0.79	20	0.004	3	0.42	0.003	0.07	<0.1	0.12	3.8	0.1	<0.05	1	0.8	<0.2
1895029	Soil	38	0.77	185	0.033	1	2.39	0.007	0.06	0.1	0.03	4.5	0.3	<0.05	8	<0.5	<0.2
1895030	Soil	38	1.63	169	0.046	3	1.69	0.010	0.09	<0.1	0.09	5.1	0.3	<0.05	5	1.1	<0.2



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Report Date: August 23, 2019

Page: 3 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1895031	Soil		5.3	47.3	1332.9	1246	0.8	66.4	12.9	1223	4.89	16.9	1.6	6.4	20	3.8	2.0	0.1	171	0.79	0.060	21
1895032	Soil		1.7	24.7	255.1	314	0.3	28.7	7.1	539	2.43	3.8	0.6	9.1	20	0.6	0.9	<0.1	167	0.87	0.031	13
1895033	Soil		6.5	53.2	828.1	878	1.0	93.0	21.6	1158	5.61	29.4	1.6	6.2	14	3.6	3.0	0.2	133	0.70	0.062	29
1895034	Soil		3.7	68.2	1219.6	1061	1.1	75.2	17.5	1072	4.45	25.1	3.2	9.8	9	3.7	3.2	<0.1	187	0.55	0.043	27
1895035	Soil		1.9	47.3	143.9	185	0.2	40.4	25.3	1429	5.44	12.5	3.1	5.1	14	0.7	1.4	0.3	165	0.41	0.029	13
1895036	Soil		1.8	53.2	80.9	249	0.2	20.3	15.0	852	2.99	7.9	3.9	3.0	16	0.8	0.6	0.2	69	0.40	0.042	13
1895037	Soil		2.4	60.7	110.9	379	0.2	25.2	13.1	860	2.94	11.4	2.1	2.3	22	2.3	1.1	0.3	63	0.86	0.066	13
1895038	Soil		3.8	74.9	117.6	410	0.2	26.9	28.0	1419	3.86	12.2	1.7	4.2	20	1.5	1.3	0.3	79	0.60	0.037	15
1895039	Soil		2.4	106.6	107.2	245	0.1	30.6	25.7	1112	3.57	9.9	5.1	3.6	22	1.9	1.0	0.3	77	0.74	0.043	14
1895040	Soil		1.3	103.2	438.7	750	0.7	61.1	36.5	1285	5.23	8.5	2.6	2.7	33	3.3	2.1	0.5	149	4.69	0.058	8
1895041	Soil		2.0	12.8	42.9	100	0.2	18.6	12.0	574	2.70	5.8	<0.5	2.8	40	0.8	0.7	<0.1	51	6.46	0.067	19
1895042	Soil		1.0	49.4	55.3	120	0.1	13.4	8.4	945	1.48	5.2	1.3	1.0	16	1.2	0.8	<0.1	25	1.15	0.038	5
1895043	Soil		1.6	107.7	165.0	397	0.3	46.8	21.9	954	3.67	9.5	2.5	3.1	28	1.7	1.1	0.3	90	2.18	0.066	14
1895044	Soil		1.5	102.8	189.1	471	0.3	43.9	21.9	919	3.43	9.1	2.4	2.2	26	1.9	1.1	0.3	83	1.43	0.065	12
1895045	Soil		1.8	86.1	183.6	458	0.3	45.3	20.7	599	3.63	8.7	2.7	2.6	28	1.4	1.0	0.3	95	1.23	0.084	14
1895046	Soil		2.3	237.0	375.3	884	0.7	88.5	37.7	1538	6.38	14.2	4.3	4.0	59	4.2	2.5	0.5	150	4.28	0.154	21
1895047	Soil		1.4	26.0	35.7	102	0.1	16.3	9.6	436	2.30	3.8	0.9	1.8	58	0.5	0.6	<0.1	40	10.80	0.073	12
1895048	Soil		1.0	77.6	153.9	254	0.2	40.8	22.6	901	3.80	6.0	1.5	2.4	51	1.4	0.8	0.2	96	7.22	0.058	8
1895049	Soil		1.2	11.3	26.3	72	0.1	16.4	9.5	352	2.26	3.7	0.6	2.0	53	0.3	0.5	<0.1	38	10.67	0.075	11
1895050	Soil		2.7	9.1	37.1	56	0.3	15.3	7.0	1238	1.54	19.0	0.7	1.7	71	0.2	1.3	0.6	10	13.62	0.044	5
1895051	Soil		1.6	64.7	57.1	115	0.9	51.8	39.9	3107	6.21	21.6	5.6	3.7	24	0.3	2.3	0.6	55	0.65	0.123	22
1895052	Soil		1.0	59.3	60.2	225	0.2	50.0	32.4	7556	9.10	8.7	5.6	4.1	15	0.4	1.0	0.2	102	0.32	0.099	14
1895053	Soil		3.7	31.8	103.4	219	0.6	41.8	16.2	6335	6.70	17.0	3.0	1.9	29	0.8	2.1	0.8	74	0.94	0.094	22
1895054	Soil		1.4	338.4	180.7	358	0.2	38.7	16.2	672	3.60	10.7	31.4	3.3	16	0.6	0.9	0.3	91	0.21	0.049	14
1895055	Soil		1.7	5.2	69.2	144	0.1	6.8	3.0	332	0.62	4.1	1.4	0.4	31	0.7	0.5	<0.1	9	15.02	0.023	3
1895056	Soil		0.8	3.0	31.7	66	<0.1	2.8	1.4	322	0.39	2.3	<0.5	0.1	42	0.3	0.4	<0.1	4	19.86	0.037	1
1895057	Soil		1.3	3.0	97.9	162	0.1	3.9	1.8	372	0.52	1.9	<0.5	0.1	42	0.7	0.6	<0.1	4	21.72	0.023	2
1895058	Soil		0.3	3.5	26.8	48	<0.1	3.0	2.8	243	0.81	2.5	1.1	0.5	36	0.3	0.3	<0.1	10	13.72	0.019	2
1895059	Soil		3.0	10.9	32.5	72	0.3	23.6	12.4	1846	2.54	24.1	0.6	0.3	84	0.2	1.9	0.9	15	15.42	0.055	8
1895060	Soil		2.1	78.3	37.8	146	2.3	51.3	45.3	7521	10.34	24.0	10.6	4.3	18	0.4	1.8	0.5	63	0.95	0.155	21



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Page: 3 of 9

Part: 2 of 2

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WHI19000298.1

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1895031	Soil	34	2.52	58	0.048	2	2.24	0.005	0.11	0.2	0.13	6.9	0.6	<0.05	10	0.8	<0.2	
1895032	Soil	42	3.89	43	0.144	<1	2.38	0.007	0.57	0.1	0.03	8.7	1.3	<0.05	8	<0.5	<0.2	
1895033	Soil	29	0.82	92	0.023	2	1.52	0.006	0.17	0.3	0.06	7.0	0.5	<0.05	6	1.2	<0.2	
1895034	Soil	42	3.12	49	0.091	1	2.31	0.006	0.09	0.2	0.08	8.7	0.6	<0.05	9	0.8	<0.2	
1895035	Soil	28	1.63	105	0.084	2	2.26	0.006	0.11	0.1	0.03	14.7	0.3	<0.05	7	<0.5	<0.2	
1895036	Soil	29	0.50	154	0.047	2	2.05	0.009	0.05	0.2	0.04	3.4	0.2	<0.05	7	<0.5	<0.2	
1895037	Soil	32	0.70	144	0.038	3	1.68	0.009	0.08	0.1	0.06	4.0	0.2	<0.05	5	0.6	<0.2	
1895038	Soil	34	0.71	177	0.058	3	1.89	0.009	0.08	0.1	0.04	6.0	0.2	<0.05	6	<0.5	<0.2	
1895039	Soil	30	0.86	139	0.051	2	1.85	0.008	0.06	0.1	0.07	6.3	0.2	<0.05	5	0.8	<0.2	
1895040	Soil	68	4.91	95	0.127	4	2.82	0.008	0.08	<0.1	0.09	11.8	0.2	<0.05	8	<0.5	<0.2	
1895041	Soil	37	3.79	78	0.159	3	1.56	0.006	0.06	<0.1	0.03	4.9	0.1	<0.05	3	<0.5	<0.2	
1895042	Soil	17	0.46	226	0.028	3	0.62	0.004	0.03	<0.1	0.04	2.2	<0.1	0.09	2	1.9	<0.2	
1895043	Soil	61	2.24	148	0.114	4	2.06	0.010	0.11	0.1	0.08	6.8	0.2	<0.05	6	<0.5	<0.2	
1895044	Soil	55	1.60	138	0.097	4	2.04	0.008	0.09	0.1	0.08	5.8	0.2	<0.05	6	1.0	<0.2	
1895045	Soil	64	1.71	171	0.108	4	2.33	0.010	0.11	0.1	0.09	6.7	0.2	<0.05	6	1.0	<0.2	
1895046	Soil	105	3.44	325	0.218	9	3.57	0.018	0.18	0.2	0.17	11.0	0.3	<0.05	10	2.1	<0.2	
1895047	Soil	30	6.02	108	0.136	2	0.85	0.008	0.06	0.1	0.05	3.1	<0.1	<0.05	3	<0.5	<0.2	
1895048	Soil	59	4.44	132	0.147	4	1.98	0.009	0.10	0.1	0.05	7.3	0.1	<0.05	6	<0.5	<0.2	
1895049	Soil	30	6.32	68	0.158	2	0.82	0.008	0.04	0.1	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2	
1895050	Soil	11	7.97	70	0.004	3	0.16	0.007	0.02	<0.1	0.04	2.1	0.2	<0.05	<1	<0.5	<0.2	
1895051	Soil	34	0.81	160	0.019	3	1.60	0.005	0.08	0.2	0.14	12.2	0.3	<0.05	4	1.2	<0.2	
1895052	Soil	66	1.43	318	0.025	2	2.59	0.005	0.13	0.2	0.07	28.4	0.2	<0.05	6	<0.5	<0.2	
1895053	Soil	24	0.42	133	0.019	2	1.07	0.004	0.06	0.2	0.13	4.8	0.3	<0.05	4	1.2	<0.2	
1895054	Soil	36	0.77	116	0.069	2	1.88	0.006	0.05	0.2	0.04	4.1	0.1	<0.05	6	<0.5	<0.2	
1895055	Soil	5	8.31	102	0.009	<1	0.24	0.007	0.01	<0.1	0.03	1.6	0.1	<0.05	<1	0.7	<0.2	
1895056	Soil	3	10.75	64	0.003	2	0.14	0.008	<0.01	<0.1	0.03	1.2	<0.1	0.08	<1	0.6	<0.2	
1895057	Soil	4	11.52	25	0.004	<1	0.13	0.009	0.01	<0.1	0.09	1.2	<0.1	0.09	<1	<0.5	<0.2	
1895058	Soil	5	8.04	38	0.006	<1	0.16	0.009	0.01	<0.1	0.05	0.9	<0.1	<0.05	<1	<0.5	<0.2	
1895059	Soil	17	7.94	114	0.005	2	0.26	0.008	0.02	<0.1	0.06	3.4	0.3	0.11	<1	0.5	<0.2	
1895060	Soil	46	0.98	384	0.011	1	1.77	0.004	0.06	0.1	0.19	14.1	0.2	0.06	5	0.7	0.2	



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Report Date: August 23, 2019

Page: 4 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.001	0.001	1	
1895062	Soil		1.4	120.0	1794.5	1288	1.0	51.4	32.1	2714	5.18	11.7	4.0	3.1	17	5.2	1.0	0.3	111	0.41	0.060	13
1895063	Soil		2.1	171.4	546.9	596	0.6	41.1	46.3	3720	8.78	10.6	0.5	2.2	13	2.8	1.0	0.3	184	0.43	0.061	7
1895064	Soil		2.3	132.8	509.2	763	0.9	65.6	36.4	2273	7.15	17.4	1.8	3.2	49	2.9	1.3	0.4	123	1.62	0.077	11
1895065	Soil		4.3	301.4	396.1	617	1.6	72.5	56.1	927	6.07	24.4	7.8	2.1	48	1.4	2.0	0.6	89	1.54	0.088	12
1895066	Soil		1.8	64.0	223.3	359	0.4	56.6	31.0	1513	5.54	8.5	2.3	4.9	32	0.6	0.8	0.3	149	1.93	0.057	22
1895067	Soil		2.0	75.7	227.0	417	0.5	55.7	25.1	1309	4.44	10.0	2.6	3.4	31	1.3	0.8	0.2	102	2.51	0.061	14
1895068	Soil		1.7	91.4	113.0	252	0.6	41.1	18.6	880	3.71	11.6	3.0	2.2	33	0.7	0.9	0.3	71	1.55	0.076	18
1895069	Soil		2.6	53.7	127.3	277	0.5	41.9	18.9	1253	4.33	13.4	1.2	3.7	40	0.8	1.1	0.3	71	4.05	0.071	18
1895070	Soil		2.3	82.7	314.9	383	0.5	57.9	28.3	1171	5.36	13.2	4.2	3.0	30	0.8	1.2	0.3	106	3.56	0.062	13
1895071	Soil		4.0	145.0	309.8	618	1.2	78.7	51.8	1707	7.58	49.9	6.7	4.3	36	2.0	3.7	0.5	91	3.58	0.073	13
1895072	Soil		2.4	56.4	170.1	530	0.5	49.9	24.2	1343	4.73	12.5	1.9	4.7	53	1.1	1.5	0.3	78	5.66	0.078	16
1895073	Soil		3.1	69.5	217.0	688	0.7	46.0	25.4	1443	5.33	18.3	3.2	4.8	54	2.0	2.2	0.5	62	7.29	0.088	13
1895074	Soil		1.5	50.1	143.1	271	0.4	40.3	19.1	814	3.79	11.8	2.0	3.2	36	0.6	0.9	0.3	73	3.01	0.069	15
1895075	Soil		1.5	54.2	110.0	315	0.3	43.4	19.3	1052	3.91	11.9	0.9	4.1	36	0.7	1.0	0.3	72	3.14	0.071	16
1895076	Soil		0.9	55.4	98.7	227	0.3	36.7	17.7	814	3.22	7.9	5.0	2.6	42	0.8	0.7	0.2	74	5.95	0.086	14
1895077	Soil		1.0	106.5	139.3	269	0.3	39.7	18.8	746	3.63	6.8	1.5	2.3	47	1.0	0.7	0.2	96	6.81	0.064	12
1895078	Soil		0.9	55.4	200.0	244	0.4	36.1	19.9	662	3.26	6.2	3.1	2.5	44	1.4	0.7	0.2	76	7.10	0.068	14
1895079	Soil		0.2	607.6	169.6	173	1.4	124.6	102.7	1736	9.20	69.9	11.0	0.4	4	0.2	1.2	0.1	322	0.36	0.018	5
1895080	Soil		5.0	10.6	40.9	64	0.4	13.1	5.5	1412	1.71	28.5	0.6	0.3	94	0.3	1.9	1.0	9	16.57	0.020	4
1895081	Soil		3.8	8.8	37.9	21	0.3	2.1	12.1	300	6.00	8.4	<0.5	8.2	55	0.1	0.8	0.1	4	2.41	0.287	71
1895082	Soil		7.4	7.9	54.7	102	0.5	9.9	4.4	769	0.98	23.7	<0.5	0.3	80	0.3	1.6	<0.1	7	18.44	0.024	3
1895083	Soil		30.5	96.5	154.9	1167	0.5	115.7	26.6	766	3.62	38.8	2.7	3.2	41	1.4	10.8	0.3	194	9.45	0.176	21
1895084	Soil		1.4	6.2	28.6	150	<0.1	8.7	2.8	254	0.55	4.5	<0.5	0.3	36	0.2	1.0	<0.1	13	15.26	0.016	3
1895085	Soil		3.5	33.1	54.6	313	0.3	29.2	22.3	268	2.01	7.5	1.8	1.1	26	0.6	1.3	<0.1	29	7.39	0.126	16
1895086	Soil		3.8	9.9	15.7	84	0.1	18.5	7.2	351	1.22	9.0	0.7	0.6	41	0.4	1.1	<0.1	23	12.77	0.062	6
1895087	Soil		1.1	2.6	44.0	40	<0.1	2.7	2.7	190	0.86	3.3	<0.5	0.4	42	0.2	1.0	<0.1	8	13.13	0.015	2
1895088	Soil		1.5	5.3	221.0	184	0.1	5.7	3.9	395	1.45	7.9	<0.5	0.7	33	0.7	2.1	<0.1	14	12.14	0.023	4
1895089	Soil		1.1	7.6	99.9	126	<0.1	11.9	6.2	491	1.46	4.9	<0.5	1.0	31	0.6	0.8	<0.1	23	12.53	0.063	4
1895090	Soil		3.1	3.8	200.9	66	<0.1	2.9	4.9	495	0.95	3.7	1.9	0.5	47	0.2	2.1	<0.1	14	16.03	0.020	2
1895091	Soil		1.6	30.2	22.9	62	0.5	46.0	22.5	1728	4.36	16.1	1.3	1.5	17	0.3	1.9	0.6	33	1.72	0.149	19

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



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Report Date: August 23, 2019

Page: 4 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1895062	Soil	43	2.12	130	0.057	2	2.99	0.007	0.08	0.1	0.03	11.0	0.2	<0.05	8	<0.5	<0.2	
1895063	Soil	30	1.82	85	0.025	<1	3.09	0.004	0.08	<0.1	0.06	18.9	0.1	<0.05	10	0.8	<0.2	
1895064	Soil	68	1.90	176	0.127	4	2.76	0.006	0.06	0.2	0.11	15.0	0.2	<0.05	7	1.4	<0.2	
1895065	Soil	55	1.45	129	0.042	2	2.00	0.007	0.06	0.1	0.15	9.8	0.1	<0.05	5	2.4	<0.2	
1895066	Soil	94	2.82	136	0.127	2	2.47	0.007	0.09	<0.1	0.06	14.3	0.2	<0.05	8	<0.5	<0.2	
1895067	Soil	70	2.53	167	0.141	2	1.92	0.008	0.08	0.1	0.08	9.9	0.1	<0.05	6	<0.5	<0.2	
1895068	Soil	43	1.19	249	0.058	4	1.71	0.009	0.08	0.1	0.11	6.3	0.1	<0.05	5	0.9	<0.2	
1895069	Soil	48	2.64	181	0.084	2	1.48	0.009	0.08	0.1	0.07	6.6	0.1	<0.05	5	0.7	<0.2	
1895070	Soil	62	3.00	91	0.115	2	1.76	0.006	0.06	0.1	0.07	10.2	0.1	<0.05	5	<0.5	<0.2	
1895071	Soil	49	2.68	132	0.117	<1	1.61	0.005	0.07	0.2	0.13	10.7	0.1	<0.05	5	0.7	<0.2	
1895072	Soil	46	3.22	184	0.169	2	1.59	0.007	0.07	0.2	0.11	7.7	0.1	<0.05	5	<0.5	<0.2	
1895073	Soil	39	4.29	94	0.116	2	1.03	0.006	0.06	0.1	0.10	7.4	0.2	<0.05	3	<0.5	<0.2	
1895074	Soil	47	2.42	185	0.091	3	1.68	0.009	0.07	0.1	0.06	6.8	0.1	<0.05	5	<0.5	<0.2	
1895075	Soil	49	2.45	204	0.106	2	1.60	0.010	0.08	0.2	0.11	6.0	0.1	<0.05	5	<0.5	<0.2	
1895076	Soil	52	4.31	145	0.157	2	1.59	0.008	0.08	0.1	0.05	5.8	0.1	<0.05	5	0.6	<0.2	
1895077	Soil	56	4.36	135	0.154	2	1.79	0.007	0.09	0.1	0.05	6.7	0.1	<0.05	6	<0.5	<0.2	
1895078	Soil	48	4.54	111	0.153	3	1.39	0.008	0.07	0.1	0.04	7.6	<0.1	<0.05	5	<0.5	<0.2	
1895079	Soil	109	4.48	42	0.217	<1	5.11	0.003	0.47	<0.1	<0.01	34.0	0.6	<0.05	15	<0.5	<0.2	
1895080	Soil	6	8.72	87	0.004	<1	0.13	0.008	0.01	<0.1	0.11	1.9	0.6	<0.05	<1	<0.5	<0.2	
1895081	Soil	1	1.14	270	0.002	<1	0.59	0.004	0.11	<0.1	0.03	4.7	1.3	0.23	2	<0.5	<0.2	
1895082	Soil	6	9.16	49	0.003	1	0.12	0.009	0.01	<0.1	0.13	1.8	0.4	<0.05	<1	<0.5	<0.2	
1895083	Soil	43	5.98	166	0.050	3	1.06	0.006	0.17	0.2	0.79	6.1	1.8	<0.05	3	1.2	<0.2	
1895084	Soil	4	8.87	30	0.004	<1	0.12	0.007	0.02	<0.1	0.08	1.5	0.2	<0.05	<1	<0.5	<0.2	
1895085	Soil	22	4.16	306	0.010	2	0.72	0.007	0.12	<0.1	0.15	4.6	0.5	<0.05	2	<0.5	<0.2	
1895086	Soil	16	7.51	60	0.017	<1	0.48	0.010	0.04	0.1	0.05	2.1	0.2	<0.05	1	<0.5	<0.2	
1895087	Soil	4	7.60	355	0.007	<1	0.14	0.008	0.01	<0.1	0.13	0.7	0.2	<0.05	<1	<0.5	<0.2	
1895088	Soil	8	7.30	43	0.014	<1	0.32	0.009	0.02	<0.1	0.33	1.3	0.3	0.07	<1	<0.5	<0.2	
1895089	Soil	24	7.65	56	0.015	3	0.54	0.011	0.03	<0.1	0.05	1.4	0.2	0.10	1	<0.5	<0.2	
1895090	Soil	5	9.39	23	0.006	<1	0.09	0.009	0.01	0.1	0.03	1.1	0.4	0.07	<1	<0.5	<0.2	
1895091	Soil	41	0.48	175	0.011	2	0.79	0.004	0.06	<0.1	0.14	3.9	0.3	0.09	2	0.5	<0.2	



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Page: 5 of 9

Part: 1 of 2

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WHI19000298.1

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.01	0.001	1	
1895092	Soil	1.5	49.2	24.5	135	0.3	55.5	34.2	2952	5.71	19.5	1.9	2.3	11	0.3	1.7	0.5	73	0.36	0.115	12
1895093	Soil	1.3	81.4	35.8	162	0.5	59.1	53.7	6302	8.89	16.8	1.2	1.2	9	0.4	2.8	0.4	91	0.20	0.188	10
1895094	Soil	2.1	35.4	27.0	95	0.3	32.7	19.3	1539	4.36	22.5	4.4	0.9	12	0.4	1.5	0.6	55	0.22	0.113	17
1895095	Soil	0.6	86.8	15.7	103	0.2	33.8	24.2	2972	5.48	7.7	4.0	5.2	14	0.2	1.3	0.4	40	0.37	0.076	23
1895096	Soil	1.0	53.4	49.2	128	<0.1	28.2	15.0	1055	4.33	9.2	1.7	2.4	15	0.2	0.7	0.3	73	0.32	0.082	16
1895097	Soil	0.9	45.4	24.9	123	<0.1	27.4	15.3	1134	4.68	12.4	0.7	3.6	12	0.3	1.2	0.2	46	0.27	0.047	20
1895098	Soil	1.1	34.1	44.9	165	0.2	24.0	15.1	927	3.58	13.6	2.1	2.3	14	0.5	1.3	0.3	39	0.54	0.077	18
1895099	Soil	1.0	38.4	73.5	174	0.2	25.6	15.8	1519	4.38	11.0	0.6	2.6	16	0.5	1.0	0.3	48	0.64	0.077	20
1895100	Soil	0.8	38.8	149.2	206	0.1	34.0	17.3	1342	4.90	10.1	2.0	2.5	13	0.5	0.8	0.2	70	0.35	0.073	18
1895101	Soil	0.8	17.2	50.9	63	0.3	19.5	15.8	3906	4.60	7.0	<0.5	1.6	24	0.4	2.0	0.4	32	1.17	0.153	17
1895102	Soil	1.0	69.3	179.2	145	0.7	73.5	55.3	3348	6.99	19.6	3.5	5.4	25	0.4	5.0	0.4	62	0.84	0.059	11
1895103	Soil	0.3	47.8	22.3	152	0.2	47.8	70.3	9652	10.87	13.9	1.2	1.8	28	0.2	1.7	0.4	93	1.86	0.101	6
1895104	Soil	1.1	50.4	98.6	69	1.4	29.0	23.5	2770	3.96	10.7	4.8	2.0	34	0.2	4.8	0.5	25	1.84	0.092	7
1895105	Soil	3.8	25.0	53.0	140	0.6	36.3	13.3	748	3.53	11.6	<0.5	4.4	22	0.2	3.4	0.3	72	1.19	0.056	21
1895106	Soil	2.1	16.3	55.5	145	0.7	21.9	10.3	644	2.93	7.1	<0.5	2.2	23	0.4	1.5	0.3	68	1.00	0.074	16
1895107	Soil	4.2	74.4	109.1	95	2.3	31.3	16.1	1515	3.31	20.8	<0.5	5.8	59	0.2	13.9	0.2	27	7.99	0.059	15
1895108	Soil	3.1	58.5	194.5	164	1.9	37.6	14.1	1054	3.36	16.9	0.5	4.5	33	0.7	10.2	0.3	33	3.51	0.064	23
1895109	Soil	2.8	40.8	111.3	122	1.0	29.4	11.2	892	2.80	15.1	<0.5	6.1	58	0.6	9.1	0.2	24	7.12	0.065	23
1895110	Soil	2.5	51.6	94.8	205	1.0	38.0	13.8	1337	2.94	15.0	2.9	3.5	21	1.2	5.8	0.3	42	1.50	0.071	19
1895111	Soil	2.7	52.4	89.1	115	1.0	37.9	23.8	2066	5.02	18.0	0.8	6.6	14	0.2	4.5	1.0	38	0.69	0.055	20
1895112	Soil	2.4	35.5	71.7	135	0.8	32.9	21.5	2921	4.40	14.3	<0.5	4.3	23	0.4	3.7	0.9	30	1.64	0.068	17
1895113	Soil	3.6	49.5	95.8	176	1.1	47.6	25.9	2381	4.79	20.0	1.5	7.6	16	0.5	5.8	1.1	39	0.69	0.073	23
1895114	Soil	3.5	32.8	71.4	140	0.7	34.6	15.0	1235	4.06	15.5	<0.5	3.6	17	0.5	2.8	0.4	60	1.31	0.067	20
1895115	Soil	4.7	45.3	82.5	138	1.0	40.5	21.7	2020	4.63	16.5	2.0	7.1	15	0.4	5.0	0.9	37	1.02	0.052	21
1895116	Soil	3.7	7.4	249.7	395	0.1	8.6	5.5	354	1.24	5.6	<0.5	0.6	29	1.6	0.5	<0.1	15	11.00	0.039	4
1895117	Soil	1.1	4.1	140.9	193	0.2	2.8	3.5	390	1.06	4.1	<0.5	0.4	28	0.9	0.6	<0.1	12	12.36	0.034	3
1895118	Soil	1.6	5.5	26.4	63	<0.1	5.9	4.3	302	1.10	3.5	<0.5	0.4	27	0.4	0.6	<0.1	17	11.66	0.043	3
1895119	Soil	0.7	11.1	25.0	88	<0.1	13.2	7.1	427	1.83	7.0	1.9	2.5	30	0.4	0.7	<0.1	26	8.88	0.048	9
1895120	Soil	2.9	6.1	21.7	38	0.2	9.2	5.3	697	1.48	15.7	<0.5	0.7	69	0.2	1.0	0.7	9	12.94	0.024	4
1895121	Soil	1.3	23.2	55.3	166	<0.1	36.3	24.9	2849	4.65	5.9	0.8	1.6	17	0.4	0.7	0.2	126	0.52	0.089	10



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Report Date: August 23, 2019

Page: 5 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1895092	Soil	81	1.34	250	0.015	<1	1.92	0.004	0.06	0.1	0.05	10.9	0.2	<0.05	5	<0.5	<0.2	
1895093	Soil	116	1.34	233	0.017	<1	2.45	0.003	0.07	<0.1	0.05	9.9	0.2	<0.05	7	<0.5	<0.2	
1895094	Soil	46	0.50	139	0.017	<1	1.40	0.005	0.06	0.1	0.07	1.9	0.3	<0.05	5	<0.5	<0.2	
1895095	Soil	21	0.46	118	0.022	<1	0.93	0.006	0.07	0.1	0.05	8.3	0.1	<0.05	2	<0.5	<0.2	
1895096	Soil	34	0.75	196	0.022	<1	1.81	0.006	0.06	0.1	0.04	6.4	0.1	<0.05	6	<0.5	<0.2	
1895097	Soil	27	0.44	144	0.020	<1	1.35	0.004	0.07	<0.1	0.04	4.5	0.3	<0.05	4	<0.5	<0.2	
1895098	Soil	27	0.43	103	0.024	<1	1.09	0.006	0.06	0.1	0.06	3.6	0.2	<0.05	3	<0.5	<0.2	
1895099	Soil	33	0.72	138	0.024	1	1.29	0.005	0.07	0.1	0.07	5.6	0.1	<0.05	4	<0.5	<0.2	
1895100	Soil	73	1.10	124	0.027	1	1.77	0.005	0.07	<0.1	0.04	6.9	0.1	<0.05	5	<0.5	<0.2	
1895101	Soil	24	0.92	138	0.014	3	1.43	0.005	0.07	<0.1	0.07	5.8	0.2	<0.05	3	0.5	<0.2	
1895102	Soil	87	1.74	65	0.005	2	1.85	0.004	0.12	<0.1	0.06	13.9	<0.1	<0.05	4	<0.5	<0.2	
1895103	Soil	48	2.06	453	0.010	3	1.79	0.005	0.06	<0.1	0.10	36.3	<0.1	0.15	4	0.9	<0.2	
1895104	Soil	27	0.71	44	0.005	2	0.72	0.004	0.05	<0.1	0.09	6.3	<0.1	0.07	2	1.1	<0.2	
1895105	Soil	51	1.01	167	0.074	1	1.78	0.007	0.09	<0.1	0.07	5.3	0.2	<0.05	5	<0.5	<0.2	
1895106	Soil	43	0.63	209	0.053	1	1.68	0.007	0.08	<0.1	0.11	4.6	0.2	<0.05	6	<0.5	<0.2	
1895107	Soil	15	3.60	34	0.025	2	0.32	0.006	0.08	<0.1	0.12	3.7	0.2	<0.05	<1	<0.5	<0.2	
1895108	Soil	25	1.72	72	0.030	3	0.69	0.006	0.09	<0.1	0.16	4.1	0.2	0.09	2	0.6	<0.2	
1895109	Soil	10	3.14	33	0.015	2	0.31	0.005	0.08	<0.1	0.09	3.5	0.2	0.07	<1	<0.5	<0.2	
1895110	Soil	20	0.95	88	0.010	3	0.90	0.003	0.11	<0.1	0.13	3.0	0.2	<0.05	2	0.9	<0.2	
1895111	Soil	26	0.72	70	0.008	<1	1.02	0.004	0.06	0.1	0.12	7.1	0.2	<0.05	2	<0.5	<0.2	
1895112	Soil	19	0.81	78	0.007	2	0.71	0.004	0.07	<0.1	0.08	4.7	0.1	<0.05	2	0.5	<0.2	
1895113	Soil	24	0.68	83	0.011	1	0.91	0.003	0.08	<0.1	0.09	6.0	0.2	<0.05	2	0.7	<0.2	
1895114	Soil	40	1.17	105	0.037	2	1.40	0.007	0.09	0.1	0.07	5.5	0.2	<0.05	4	<0.5	<0.2	
1895115	Soil	24	0.86	68	0.007	1	0.84	0.003	0.07	<0.1	0.10	5.9	0.2	<0.05	2	0.8	<0.2	
1895116	Soil	9	6.58	60	0.010	<1	0.33	0.009	0.02	<0.1	0.11	1.2	0.1	<0.05	<1	<0.5	<0.2	
1895117	Soil	7	7.37	35	0.008	<1	0.30	0.008	0.02	<0.1	0.11	0.9	<0.1	0.06	<1	<0.5	<0.2	
1895118	Soil	11	6.97	57	0.011	2	0.36	0.010	0.03	<0.1	0.04	0.9	<0.1	0.12	<1	<0.5	<0.2	
1895119	Soil	17	5.40	95	0.031	<1	0.71	0.013	0.04	0.1	0.06	2.0	0.1	<0.05	2	<0.5	<0.2	
1895120	Soil	7	7.35	46	0.006	<1	0.14	0.008	0.02	<0.1	0.06	1.5	0.2	<0.05	<1	<0.5	<0.2	
1895121	Soil	40	1.46	175	0.071	<1	2.54	0.008	0.07	<0.1	0.04	7.2	0.2	<0.05	9	<0.5	<0.2	



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Project: Nazgul
Report Date: August 23, 2019

Page: 6 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1895122	Soil	1.5	24.6	38.4	92	<0.1	30.5	11.0	471	3.24	10.4	2.5	3.5	13	0.2	0.8	0.2	67	0.15	0.031	16
1895123	Soil	1.0	17.9	92.4	125	<0.1	27.9	10.5	484	2.65	11.4	3.5	5.5	13	0.4	0.8	0.2	47	0.15	0.022	15
1895124	Soil	<0.1	20.3	93.4	75	<0.1	25.4	11.8	5247	3.96	<0.5	<0.5	0.5	34	<0.1	0.9	<0.1	49	9.86	0.023	2
1895125	Soil	1.4	18.4	234.9	108	0.2	26.9	9.0	452	3.31	12.4	2.3	3.2	13	0.2	0.9	0.3	64	0.20	0.032	14
1895126	Soil	1.5	80.9	306.6	224	0.3	51.1	30.3	>10000	16.39	5.2	4.9	2.0	37	0.7	1.5	0.1	79	1.13	0.050	6
1895127	Soil	0.9	229.1	859.1	267	0.8	56.4	26.8	>10000	15.33	4.4	2.7	1.6	26	0.8	1.6	0.3	77	0.60	0.059	8
1895128	Soil	0.6	191.5	1452.4	1727	1.4	139.9	57.6	5958	8.99	8.1	7.3	1.3	17	5.8	1.1	0.2	121	0.61	0.038	5
1895129	Soil	3.0	277.6	1881.0	516	2.0	96.1	37.7	5440	7.22	19.8	10.8	1.8	23	1.7	1.9	0.4	130	0.72	0.089	7
1895130	Soil	0.6	121.4	937.6	647	0.9	94.1	42.8	>10000	10.61	11.0	8.3	1.2	27	1.9	2.2	0.4	110	0.69	0.044	7
1895131	Soil	4.2	350.0	256.3	1616	1.4	99.2	81.3	2887	11.51	24.8	11.2	2.5	27	5.7	3.1	0.3	182	0.44	0.084	14
1895132	Soil	0.5	166.7	1275.3	297	0.7	68.5	30.9	8275	8.88	3.2	3.1	1.0	19	0.4	1.1	0.3	76	0.66	0.044	4
1895133	Soil	0.8	59.2	105.2	232	0.4	90.2	56.8	6740	9.38	7.7	3.3	10.3	17	0.7	1.2	0.8	79	0.75	0.069	13
1895134	Soil	0.9	62.4	456.8	389	0.5	45.9	33.6	3316	4.42	7.9	2.3	3.0	14	1.0	0.8	0.6	70	0.42	0.049	9
1895135	Soil	0.3	50.3	810.7	317	0.5	72.0	27.3	3882	4.81	1.6	3.2	1.6	30	0.4	0.5	0.3	111	1.94	0.030	4
1895136	Soil	1.4	53.0	21.8	133	0.5	36.2	25.0	4630	6.09	10.6	3.7	2.6	16	0.4	1.5	0.3	61	0.39	0.094	24
1895137	Soil	0.9	79.4	35.5	123	0.3	36.7	18.3	1748	4.22	11.9	<0.5	2.4	11	0.3	1.5	0.5	51	0.20	0.075	21
1895138	Soil	7.4	82.1	301.7	389	1.0	58.3	25.7	3374	6.15	36.6	10.3	6.9	33	1.1	5.8	0.9	60	1.62	0.079	33
1895139	Soil	1.2	122.2	335.4	273	0.3	51.7	30.4	2227	5.50	6.3	9.3	3.4	16	0.7	1.1	0.2	144	0.27	0.069	12
1895140	Soil	0.7	394.9	381.1	542	0.5	43.9	43.3	2612	6.55	5.5	10.8	2.6	16	1.6	0.8	0.4	293	0.37	0.049	10
1895141	Soil	1.1	154.5	638.5	530	0.5	59.7	38.2	4374	9.72	7.2	4.3	1.8	19	1.6	1.4	0.3	126	0.60	0.059	10
1895142	Soil	1.6	257.0	845.0	469	0.8	39.8	26.2	1279	3.94	17.1	4.0	1.7	16	2.5	1.0	0.4	85	0.38	0.070	14
1895143	Soil	4.3	100.1	565.0	638	1.0	73.0	32.2	3824	8.65	40.9	5.3	2.5	26	2.0	6.2	0.6	90	0.64	0.089	15
1895144	Soil	3.5	64.5	191.2	408	0.5	57.7	13.5	680	3.18	37.8	3.2	6.3	12	0.8	0.9	0.2	183	0.53	0.065	15
1895145	Soil	5.2	25.4	63.5	141	0.2	23.9	7.5	431	3.18	10.7	<0.5	0.7	10	0.5	1.1	0.2	151	0.14	0.121	28
1895146	Soil	3.7	29.6	128.5	247	0.2	26.0	10.7	1057	3.92	13.5	1.4	1.2	15	0.9	1.2	0.4	109	0.20	0.076	23
1895147	Soil	4.5	46.4	220.7	252	0.7	29.5	17.1	1531	4.61	22.2	1.8	7.0	12	0.5	4.1	0.9	48	0.26	0.085	23
1895148	Soil	5.9	64.7	525.7	163	3.3	59.3	45.9	1785	7.31	44.9	5.2	5.9	21	0.5	9.6	6.5	25	0.88	0.070	14
1895149	Soil	4.2	60.1	104.2	122	1.0	50.7	39.7	1828	4.66	32.0	0.6	7.0	62	0.5	8.7	1.5	17	5.05	0.051	9
1895150	Soil	2.1	13.3	170.5	93	1.6	42.8	59.3	4439	10.36	23.2	2.7	6.6	34	0.3	3.0	4.0	59	2.22	0.120	9
1895151	Soil	22.9	89.9	183.4	904	0.4	207.0	68.2	454	4.53	58.0	0.8	2.1	28	1.0	10.6	<0.1	86	10.51	0.081	12



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Page: 6 of 9

Part: 2 of 2

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WHI19000298.1

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1895122	Soil	53	0.72	102	0.077	<1	1.80	0.006	0.07	0.1	0.04	3.5	0.1	<0.05	7	<0.5	<0.2	
1895123	Soil	29	0.56	118	0.045	3	1.61	0.006	0.04	0.2	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2	
1895124	Soil	32	0.97	61	0.002	2	0.99	0.001	0.14	<0.1	0.02	29.4	<0.1	<0.05	2	<0.5	<0.2	
1895125	Soil	44	0.63	143	0.043	3	1.74	0.005	0.06	0.2	0.03	3.4	0.1	<0.05	7	<0.5	<0.2	
1895126	Soil	50	1.97	233	0.011	5	3.02	0.003	0.10	0.1	0.07	21.0	0.1	<0.05	7	0.8	<0.2	
1895127	Soil	106	1.23	247	0.011	3	1.92	0.002	0.07	<0.1	0.13	23.9	<0.1	<0.05	5	0.6	<0.2	
1895128	Soil	173	1.95	157	0.008	1	2.79	0.002	0.04	<0.1	0.15	22.0	<0.1	<0.05	8	<0.5	<0.2	
1895129	Soil	209	2.21	142	0.021	3	3.04	0.004	0.07	<0.1	0.26	19.3	0.4	<0.05	8	0.9	<0.2	
1895130	Soil	84	1.50	177	0.013	3	2.18	0.003	0.07	<0.1	0.15	31.2	0.2	<0.05	5	<0.5	<0.2	
1895131	Soil	38	1.21	53	0.014	1	2.66	0.004	0.04	<0.1	0.10	24.5	0.2	<0.05	10	1.1	<0.2	
1895132	Soil	175	2.02	143	0.009	2	2.78	0.003	0.09	<0.1	0.05	20.0	<0.1	<0.05	6	<0.5	<0.2	
1895133	Soil	73	1.13	187	0.007	2	1.86	0.003	0.06	0.3	0.05	15.3	0.1	<0.05	5	1.2	<0.2	
1895134	Soil	63	2.12	137	0.039	2	2.74	0.005	0.09	0.3	0.09	8.8	0.1	<0.05	7	<0.5	<0.2	
1895135	Soil	263	3.16	98	0.013	<1	3.21	0.002	0.03	<0.1	0.03	18.7	<0.1	<0.05	7	<0.5	<0.2	
1895136	Soil	42	0.99	299	0.025	2	1.74	0.004	0.06	0.2	0.10	10.2	0.1	<0.05	5	0.7	<0.2	
1895137	Soil	60	1.14	128	0.022	2	1.79	0.004	0.07	0.1	0.05	5.4	0.3	<0.05	5	<0.5	<0.2	
1895138	Soil	14	0.96	81	0.015	2	0.58	0.004	0.05	0.2	0.18	5.2	0.4	<0.05	2	2.0	<0.2	
1895139	Soil	82	1.60	315	0.046	2	2.43	0.005	0.06	0.2	0.05	19.1	0.1	<0.05	8	1.0	<0.2	
1895140	Soil	18	2.10	107	0.069	1	2.87	0.005	0.06	0.1	0.05	24.3	0.2	<0.05	12	<0.5	<0.2	
1895141	Soil	24	1.26	118	0.013	3	2.42	0.004	0.08	<0.1	0.06	22.0	0.1	<0.05	8	0.7	<0.2	
1895142	Soil	44	1.06	106	0.045	2	2.22	0.007	0.07	0.1	0.05	6.1	0.2	<0.05	7	<0.5	<0.2	
1895143	Soil	48	0.93	150	0.016	1	1.83	0.004	0.07	0.1	0.15	18.9	0.1	<0.05	5	1.4	<0.2	
1895144	Soil	50	3.67	49	0.078	1	2.64	0.004	0.06	0.1	0.06	6.7	0.4	<0.05	10	0.7	<0.2	
1895145	Soil	35	2.64	67	0.012	<1	2.44	0.003	0.06	0.2	0.04	1.4	0.1	<0.05	8	0.7	<0.2	
1895146	Soil	37	0.94	163	0.029	2	1.73	0.004	0.10	0.2	0.04	2.9	0.2	<0.05	7	<0.5	<0.2	
1895147	Soil	20	0.32	95	0.007	<1	0.89	0.002	0.09	0.1	0.05	4.7	0.2	<0.05	3	1.0	<0.2	
1895148	Soil	9	0.56	25	0.002	2	0.47	0.002	0.07	0.2	0.23	4.2	0.2	0.34	1	1.9	<0.2	
1895149	Soil	13	2.23	31	0.002	3	0.28	0.003	0.05	<0.1	0.09	5.4	0.2	0.17	<1	0.9	<0.2	
1895150	Soil	20	1.34	39	0.005	2	1.02	0.003	0.05	<0.1	0.15	13.0	0.2	0.31	3	1.9	<0.2	
1895151	Soil	32	5.97	59	0.005	1	0.38	0.006	0.09	<0.1	1.27	11.5	2.9	<0.05	1	1.0	<0.2	



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Report Date: August 23, 2019

Page: 7 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1895152	Soil	1.6	15.4	45.7	112	0.1	21.3	7.9	549	1.95	7.8	3.6	2.0	29	0.6	0.8	0.1	39	6.46	0.070	12
1895153	Soil	53.6	99.5	248.4	1129	0.7	211.2	30.0	827	16.33	132.4	2.0	3.4	20	2.6	16.2	1.1	206	3.60	0.119	14
1895154	Soil	2.0	10.6	7.0	156	<0.1	41.3	2.7	418	0.57	8.5	<0.5	1.0	79	0.4	3.1	<0.1	45	18.30	0.096	6
1895155	Soil	0.8	10.9	12.7	104	<0.1	13.2	6.0	597	1.30	6.2	1.2	1.7	60	0.5	0.6	<0.1	20	12.68	0.085	10
1895156	Soil	0.7	11.1	8.4	81	<0.1	11.8	5.2	387	1.33	6.1	<0.5	2.5	64	0.4	0.5	<0.1	23	13.21	0.087	12
1895157	Soil	11.0	18.0	11.8	496	0.4	21.8	5.9	458	1.00	9.9	<0.5	1.9	63	6.4	4.2	<0.1	42	12.29	0.097	6
1895158	Soil	60.4	207.0	25.2	924	4.1	139.1	42.6	432	4.37	73.5	2.8	9.4	43	6.7	12.8	0.2	382	1.54	0.342	51
1895159	Soil	6.0	77.3	10.2	124	0.4	126.2	71.3	740	9.31	1.3	<0.5	2.6	297	0.3	2.0	<0.1	205	3.31	0.187	29
1895160	Soil	41.3	83.8	9.8	511	1.4	93.0	7.7	177	1.42	23.2	1.2	3.1	351	4.6	6.8	<0.1	427	18.29	0.049	13
1895161	Soil	34.5	57.1	8.5	337	0.7	79.4	20.8	1100	4.01	10.7	<0.5	4.5	410	3.7	3.8	<0.1	411	11.24	0.133	25
1895162	Soil	77.8	92.6	12.7	643	2.6	94.7	6.0	118	1.42	53.6	1.5	5.0	388	10.9	13.0	0.1	511	14.21	0.087	16
1895163	Soil	133.7	466.6	31.6	1428	10.6	160.4	7.3	123	2.51	106.5	7.6	7.3	104	24.6	38.3	0.3	1271	7.46	0.237	23
1895164	Soil	3.7	165.8	288.5	445	1.5	76.5	19.1	6396	13.19	47.3	3.6	4.7	26	2.5	4.8	0.4	294	1.48	0.094	28
1895165	Soil	6.7	55.9	75.1	255	0.8	57.3	19.6	4160	11.97	12.0	8.3	4.6	32	1.0	3.4	0.6	87	0.55	0.174	30
1895166	Soil	4.3	144.1	6119.0	1032	3.7	74.3	25.6	3653	7.09	25.7	12.6	42.5	18	3.3	12.3	5.4	127	0.35	0.088	20
1895167	Soil	1.1	86.8	364.1	238	0.2	38.1	17.0	1267	3.68	6.8	3.1	3.5	17	0.6	1.0	0.1	85	0.28	0.063	11
1895168	Soil	3.4	34.4	390.6	310	1.1	69.9	21.8	9360	13.82	13.2	5.5	22.3	57	0.9	5.2	2.0	242	2.17	0.102	14
1895169	Soil	0.7	552.2	775.9	220	1.2	51.9	62.3	>10000	10.07	6.0	95.2	2.8	21	1.2	3.1	<0.1	574	0.28	0.045	17
1895170	Soil	1.1	100.2	247.8	286	0.2	32.6	14.7	796	3.26	7.7	3.4	2.9	12	0.6	0.9	0.3	87	0.16	0.039	11
1895171	Soil	10.9	303.6	7308.9	>10000	15.6	226.8	44.6	4647	10.07	253.5	10.5	4.7	17	89.0	18.5	0.6	104	1.67	0.091	28
1895172	Soil	5.4	73.2	157.8	592	0.5	60.1	13.2	758	3.81	10.3	2.3	9.1	24	1.9	1.3	0.2	183	1.20	0.051	12
1895173	Soil	5.5	119.6	366.5	619	1.5	62.9	33.2	1782	6.57	31.2	4.1	4.6	18	1.6	3.8	0.6	200	0.68	0.068	13
1895174	Soil	2.4	79.9	125.9	160	1.5	67.9	18.8	1411	4.02	32.2	7.5	4.1	21	0.5	4.5	0.6	58	1.00	0.074	18
1895175	Soil	3.8	42.5	269.5	210	6.3	36.5	14.8	1394	4.09	13.6	1.2	2.0	28	0.7	13.1	0.4	54	1.82	0.077	19
1895176	Soil	3.6	88.5	80.0	175	1.6	45.4	13.9	957	3.64	16.6	7.4	1.8	21	0.4	8.0	0.5	32	1.56	0.081	14
1895177	Soil	4.1	44.5	86.7	132	1.3	35.3	15.5	957	3.19	16.6	4.2	1.1	31	0.3	3.9	0.5	39	2.24	0.108	10
1895178	Soil	7.2	90.0	236.7	231	1.6	66.3	28.1	1097	5.34	50.7	9.3	2.8	32	0.9	5.6	1.2	65	2.52	0.097	17
1895179	Soil	8.1	80.6	122.4	155	1.0	47.4	23.7	1184	5.19	42.0	5.7	2.5	26	0.4	6.1	1.2	51	2.10	0.092	13
1895180	Soil	11.8	149.2	412.1	347	1.6	39.8	28.8	730	5.86	43.2	4.6	3.0	30	1.2	5.6	1.3	60	0.75	0.071	13
1895181	Soil	12.4	281.1	2542.0	2180	3.1	141.8	75.5	1291	9.75	122.4	4.8	6.2	32	14.8	16.8	0.4	54	2.62	0.064	11

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: August 23, 2019

Page: 7 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1895152	Soil	27	4.08	104	0.034	2	0.88	0.011	0.05	0.1	0.04	3.3	0.2	<0.05	3	<0.5	<0.2
1895153	Soil	73	2.12	158	0.025	3	0.90	0.003	0.15	0.3	1.82	7.6	5.6	<0.05	4	1.4	<0.2
1895154	Soil	9	10.14	20	0.009	2	0.18	0.011	0.04	<0.1	0.24	2.2	0.5	<0.05	<1	<0.5	<0.2
1895155	Soil	14	7.45	57	0.021	2	0.58	0.012	0.06	<0.1	0.03	2.9	0.2	<0.05	2	<0.5	<0.2
1895156	Soil	13	7.40	57	0.026	3	0.58	0.012	0.10	0.1	0.03	3.0	0.1	<0.05	2	<0.5	<0.2
1895157	Soil	10	7.21	46	0.011	4	0.46	0.008	0.16	<0.1	0.07	2.5	0.3	<0.05	1	1.1	<0.2
1895158	Soil	35	0.28	143	0.006	7	1.49	0.004	0.61	<0.1	0.51	6.8	1.7	<0.05	6	5.8	<0.2
1895159	Soil	58	2.20	132	0.113	<1	2.75	0.006	0.22	<0.1	0.02	13.9	0.3	<0.05	16	1.5	<0.2
1895160	Soil	41	0.71	52	0.060	3	0.65	0.004	0.13	0.1	0.14	2.7	0.6	<0.05	3	1.7	<0.2
1895161	Soil	46	2.26	84	0.107	3	2.07	0.005	0.08	<0.1	0.09	6.3	0.4	<0.05	9	0.6	<0.2
1895162	Soil	30	0.70	145	0.018	15	1.10	0.004	0.50	0.1	0.46	4.4	2.4	0.05	4	3.1	<0.2
1895163	Soil	80	1.49	124	0.021	18	1.83	0.007	1.17	0.1	1.62	7.7	1.9	<0.05	7	17.0	0.4
1895164	Soil	34	0.67	239	0.016	3	0.78	0.005	0.05	<0.1	0.34	10.8	0.7	<0.05	2	1.7	<0.2
1895165	Soil	21	0.43	139	0.015	2	0.78	0.005	0.05	0.1	0.15	14.3	0.1	<0.05	2	1.3	<0.2
1895166	Soil	35	0.41	135	0.032	1	1.25	0.006	0.04	0.6	0.38	11.9	0.2	<0.05	3	1.4	<0.2
1895167	Soil	56	0.92	94	0.052	2	1.96	0.007	0.06	0.1	0.09	8.4	0.1	<0.05	5	<0.5	<0.2
1895168	Soil	42	0.97	191	0.015	2	0.90	0.007	0.03	10.7	0.07	16.7	0.1	<0.05	2	1.4	<0.2
1895169	Soil	34	1.84	1809	0.096	1	2.60	0.003	0.30	<0.1	0.12	56.9	0.7	<0.05	8	1.1	<0.2
1895170	Soil	41	0.83	98	0.076	1	1.75	0.005	0.05	0.1	0.03	3.8	0.1	<0.05	6	<0.5	<0.2
1895171	Soil	16	0.74	125	0.015	2	0.86	0.007	0.06	0.2	1.89	5.8	0.3	0.11	2	5.0	0.3
1895172	Soil	39	4.95	47	0.105	1	3.04	0.004	0.15	0.2	0.05	8.8	1.3	<0.05	10	1.2	<0.2
1895173	Soil	29	2.75	65	0.041	2	2.87	0.005	0.08	0.1	0.09	16.0	0.3	<0.05	8	1.1	<0.2
1895174	Soil	42	1.67	78	0.024	2	1.72	0.003	0.05	<0.1	0.20	5.3	0.2	<0.05	5	2.0	<0.2
1895175	Soil	38	0.90	82	0.030	4	1.41	0.005	0.05	<0.1	0.26	5.3	0.2	<0.05	3	0.8	<0.2
1895176	Soil	16	0.76	37	0.005	3	0.78	0.003	0.05	0.1	0.23	2.3	0.1	<0.05	2	1.6	<0.2
1895177	Soil	24	0.88	62	0.013	4	0.99	0.005	0.05	<0.1	0.14	2.7	0.1	<0.05	3	2.1	<0.2
1895178	Soil	38	1.52	129	0.033	3	1.43	0.006	0.08	0.1	0.14	5.1	0.2	<0.05	3	2.7	<0.2
1895179	Soil	26	1.42	71	0.018	3	1.10	0.008	0.05	0.1	0.06	4.7	0.2	0.07	3	2.0	<0.2
1895180	Soil	26	0.83	101	0.014	1	1.46	0.004	0.05	0.2	0.24	6.9	0.2	<0.05	4	5.0	0.4
1895181	Soil	14	1.43	103	0.014	2	0.60	0.006	0.05	0.5	0.47	6.3	0.3	0.08	1	4.5	0.3



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Page: 8 of 9

Part: 1 of 2

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	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
1895182	Soil	4.0	57.6	110.3	129	1.1	34.8	14.4	874	3.86	17.2	4.7	1.8	25	0.5	4.5	0.8	34	1.16	0.110	13
1895183	Soil	3.4	14.8	32.4	80	0.3	34.9	36.5	3062	7.27	16.9	1.4	3.8	24	0.2	3.7	1.9	21	1.48	0.081	8
1895184	Soil	0.9	42.8	67.7	142	0.4	23.2	18.5	3911	4.93	14.0	2.0	1.5	19	0.4	2.6	0.4	22	1.32	0.085	16
1895185	Soil	1.3	107.8	137.1	145	0.4	42.6	27.8	2599	6.03	15.0	4.9	1.7	23	0.6	1.8	0.3	88	0.79	0.093	15
1895186	Soil	1.1	105.9	106.5	118	0.5	39.2	35.6	2805	6.98	15.6	6.1	2.5	25	0.5	1.9	0.5	73	1.77	0.084	14
1895187	Soil	2.5	48.7	41.4	99	0.3	31.3	18.7	2012	3.93	20.4	1.8	3.0	45	0.3	2.8	0.4	23	7.28	0.056	9
1895188	Soil	6.5	74.3	98.4	179	1.4	61.3	22.3	2007	4.45	44.7	3.0	2.0	21	0.7	9.3	0.8	19	1.57	0.088	9
1895189	Soil	3.5	41.6	80.8	137	1.2	40.7	19.1	2297	5.10	17.9	2.0	3.6	15	0.3	4.2	0.6	26	0.43	0.075	18
1895190	Soil	3.5	28.4	51.8	134	0.6	31.6	16.7	2244	3.28	18.1	2.9	1.1	37	0.3	3.6	3.8	17	7.45	0.096	9
1895191	Soil	1.9	309.0	252.6	242	0.5	51.0	41.6	3135	7.20	5.8	6.6	2.8	21	1.0	1.2	0.3	196	0.67	0.064	7
1895192	Soil	9.3	61.8	222.4	282	0.2	32.2	16.0	1044	3.85	10.8	5.8	2.1	11	0.9	1.2	0.4	85	0.15	0.073	15
1895193	Soil	2.1	203.5	108.6	159	0.2	35.9	25.6	1184	4.79	8.2	7.3	3.6	15	0.7	1.0	0.2	122	0.43	0.055	16
1895194	Soil	11.8	102.0	808.4	574	0.8	48.9	27.0	924	4.65	25.5	3.3	2.6	13	2.3	4.1	0.5	115	0.21	0.102	29
1895195	Soil	3.2	74.7	142.3	241	0.6	61.8	23.2	811	3.80	46.0	4.1	2.5	18	0.8	1.9	0.5	211	0.48	0.080	17
1895196	Soil	0.8	209.7	396.6	342	0.2	59.5	50.8	5404	8.32	3.1	5.0	2.3	15	1.5	0.7	<0.1	207	0.59	0.057	5
1895197	Soil	1.1	502.2	205.8	393	1.0	73.9	70.9	9886	13.93	6.3	35.0	1.1	51	0.8	3.1	0.1	480	1.32	0.044	8
1895198	Soil	1.4	94.4	891.7	684	0.2	40.8	24.6	1350	4.19	9.5	2.7	1.5	16	1.7	1.0	0.2	84	0.34	0.064	10
1895201	Soil	2.0	251.0	296.7	214	1.2	74.0	38.0	5575	8.40	17.8	6.7	2.3	17	0.7	5.6	0.2	66	0.57	0.064	18
1895202	Soil	4.5	128.3	363.9	571	2.2	60.9	21.0	3460	8.94	55.9	14.2	3.3	23	3.5	5.8	0.4	63	0.78	0.097	33
1895203	Soil	9.4	70.8	285.2	409	1.4	66.0	23.1	2664	8.06	34.8	8.2	5.3	33	2.0	5.1	0.7	167	1.52	0.091	26
1895204	Soil	18.1	137.8	1116.7	2201	5.5	115.2	81.7	8994	15.80	60.1	9.9	61.0	31	6.1	12.6	14.0	165	0.43	0.103	20
1895205	Soil	27.6	174.1	2147.6	9160	8.9	98.4	48.9	7001	12.64	55.6	15.0	104.2	82	35.9	79.5	9.1	110	2.03	0.122	14
1895206	Soil	17.9	150.1	1000.3	660	3.0	88.2	48.0	5192	11.13	37.9	4.8	68.7	26	2.6	9.1	5.8	135	0.56	0.139	17
1895207	Soil	13.5	222.5	626.4	1133	2.3	140.6	48.0	2507	8.74	65.3	2.7	10.9	20	5.8	8.7	1.3	211	0.90	0.117	45
1895208	Soil	16.1	341.4	881.7	1846	3.7	151.1	66.3	1991	10.72	161.5	7.7	8.5	21	9.8	14.0	2.4	174	0.76	0.102	48
1895209	Soil	67.4	110.2	8313.5	562	31.7	61.6	25.9	385	12.52	373.7	72.1	9.9	43	1.3	220.8	23.4	144	0.36	0.105	11
1895210	Soil	12.3	172.4	657.2	1160	1.4	132.7	38.9	1304	6.87	277.6	14.3	11.9	13	5.6	5.6	0.8	288	0.58	0.077	32
1895211	Soil	5.4	356.3	52.7	113	0.5	103.7	117.3	1315	8.42	245.1	33.0	3.5	14	1.0	6.5	0.3	227	0.33	0.053	8
1895212	Soil	1.9	340.2	2893.9	1632	1.9	120.4	144.1	3476	10.64	45.5	5.7	1.8	18	9.9	3.1	<0.1	213	0.30	0.051	8
1895213	Soil	57.2	333.8	1137.5	592	2.2	197.8	36.4	2094	7.12	78.9	9.2	2.5	17	1.3	7.1	2.4	123	0.13	0.269	21



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Project: Nazgul
Report Date: August 23, 2019

Page: 8 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1895182	Soil	20	0.59	67	0.012	3	0.98	0.004	0.06	0.2	0.11	4.1	0.1	<0.05	2	1.3	<0.2	
1895183	Soil	14	0.56	53	0.005	2	0.53	0.005	0.06	0.1	0.04	4.4	0.1	0.55	1	0.7	<0.2	
1895184	Soil	17	0.68	114	0.009	4	0.76	0.006	0.07	0.4	0.05	3.6	0.2	<0.05	2	0.6	<0.2	
1895185	Soil	72	1.45	112	0.021	3	2.01	0.006	0.07	<0.1	0.06	14.7	0.1	<0.05	5	0.8	<0.2	
1895186	Soil	40	1.71	120	0.011	3	1.79	0.005	0.07	0.1	0.08	14.5	0.1	<0.05	4	0.8	<0.2	
1895187	Soil	13	4.06	78	0.006	1	0.44	0.006	0.03	<0.1	0.06	7.3	0.2	<0.05	1	<0.5	<0.2	
1895188	Soil	7	0.48	31	0.002	2	0.33	0.003	0.05	0.2	0.16	3.6	0.6	0.07	<1	1.4	<0.2	
1895189	Soil	21	0.29	84	0.008	1	0.58	0.003	0.05	0.1	0.14	5.7	0.3	<0.05	1	0.8	<0.2	
1895190	Soil	14	3.80	204	0.004	3	0.35	0.005	0.04	<0.1	0.10	3.5	0.5	0.12	<1	<0.5	<0.2	
1895191	Soil	32	2.39	93	0.043	2	3.11	0.007	0.04	<0.1	0.05	16.5	0.1	<0.05	10	0.9	<0.2	
1895192	Soil	60	0.66	102	0.062	1	1.58	0.006	0.05	0.1	0.05	3.5	0.2	<0.05	7	0.6	<0.2	
1895193	Soil	23	1.58	85	0.047	2	2.24	0.007	0.04	0.2	0.03	6.4	0.1	<0.05	8	0.7	<0.2	
1895194	Soil	37	2.65	73	0.021	2	2.36	0.006	0.08	0.2	0.06	4.4	0.2	<0.05	6	2.1	<0.2	
1895195	Soil	54	3.24	64	0.042	2	2.50	0.006	0.06	<0.1	0.03	8.0	0.4	0.08	10	0.9	<0.2	
1895196	Soil	13	3.50	94	0.050	3	3.73	0.005	0.05	0.1	0.06	18.9	0.2	<0.05	13	<0.5	<0.2	
1895197	Soil	8	3.61	157	0.081	4	4.20	0.006	0.23	<0.1	0.05	64.9	0.4	<0.05	17	<0.5	<0.2	
1895198	Soil	43	1.52	127	0.035	6	2.46	0.006	0.06	0.1	0.05	5.1	0.2	<0.05	7	<0.5	<0.2	
1895201	Soil	35	0.51	172	0.008	2	0.88	0.004	0.09	<0.1	0.09	23.5	0.3	<0.05	2	0.8	<0.2	
1895202	Soil	18	0.46	99	0.008	2	0.85	0.003	0.06	<0.1	0.44	4.5	0.5	<0.05	2	1.7	<0.2	
1895203	Soil	27	0.88	76	0.012	3	0.55	0.007	0.08	<0.1	0.24	6.5	0.3	0.09	2	1.0	<0.2	
1895204	Soil	47	0.33	87	0.018	3	0.70	0.007	0.07	2.3	0.31	27.7	0.2	0.43	2	4.8	<0.2	
1895205	Soil	25	1.30	263	0.019	2	0.68	0.008	0.06	0.7	8.36	18.6	0.3	0.51	3	3.7	<0.2	
1895206	Soil	48	1.13	112	0.019	1	1.30	0.006	0.07	1.1	0.17	16.2	0.2	0.16	3	3.7	<0.2	
1895207	Soil	45	2.83	129	0.039	2	2.15	0.009	0.16	0.2	0.19	11.6	0.7	0.17	8	2.7	0.3	
1895208	Soil	37	1.69	106	0.028	2	1.54	0.007	0.09	0.3	0.22	10.9	0.6	0.11	6	5.9	0.6	
1895209	Soil	33	1.42	168	0.108	<1	1.05	0.028	0.77	0.1	0.98	5.7	1.1	1.58	6	>100	1.4	
1895210	Soil	70	3.12	72	0.067	1	2.59	0.006	0.18	<0.1	0.16	13.6	0.7	0.13	13	2.9	0.3	
1895211	Soil	77	3.76	60	0.131	1	3.51	0.007	0.32	0.2	0.04	20.0	1.1	<0.05	12	1.7	<0.2	
1895212	Soil	110	2.55	99	0.054	2	2.88	0.006	0.06	<0.1	0.19	27.8	0.4	<0.05	12	1.4	<0.2	
1895213	Soil	33	0.68	62	0.023	<1	1.90	0.008	0.12	0.2	0.20	3.4	0.3	0.18	6	8.0	0.4	



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Project: Nazgul
Report Date: August 23, 2019

Page: 9 of 9

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1895214	Soil	41.4	186.4	1015.0	1066	2.6	212.4	45.8	3061	5.90	56.5	7.4	12.5	17	4.8	4.7	4.2	69	0.38	0.220	29
1895215	Soil	18.7	59.8	563.8	632	1.4	80.5	17.0	774	4.06	37.3	4.4	1.3	16	2.3	1.9	2.1	79	0.28	0.153	15
1895216	Soil	27.4	187.1	602.2	492	1.0	75.2	11.9	492	4.92	53.6	8.5	1.5	13	1.1	4.5	0.4	82	0.09	0.138	15
1895217	Soil	26.5	386.9	964.2	1650	2.7	210.4	37.4	1790	7.74	73.5	18.0	5.3	24	8.6	6.9	0.9	72	0.22	0.251	23
1895218	Soil	30.7	364.0	347.0	654	1.6	74.9	32.0	1478	10.23	71.3	17.4	4.4	15	1.2	9.5	1.4	125	0.10	0.240	19
1895219	Soil	14.6	671.8	628.9	2328	1.9	303.3	46.9	4923	12.70	49.5	19.0	6.0	15	30.2	6.8	0.5	112	0.13	0.170	22
1895220	Soil	43.8	252.3	6218.4	3771	7.0	196.4	107.3	4083	9.33	130.5	23.4	12.4	16	12.6	16.3	1.5	124	0.21	0.093	16
1895221	Soil	34.1	39.0	782.9	711	2.6	184.9	45.3	>10000	15.50	258.6	5.2	41.9	66	2.9	15.0	5.9	98	3.89	0.197	10
1895222	Soil	32.7	47.8	749.0	2226	3.2	100.3	57.3	7376	10.35	80.7	11.8	11.0	20	8.1	7.9	8.4	50	0.52	0.102	11
1895223	Soil	10.2	18.4	133.2	211	1.4	68.4	67.1	>10000	11.52	40.9	5.4	4.9	28	1.2	2.5	4.6	71	2.18	0.083	8
1895224	Soil	1.8	16.1	40.2	124	0.2	37.0	26.7	>10000	10.13	14.1	2.8	2.4	31	0.7	1.2	0.4	80	3.35	0.078	10
1895225	Soil	16.9	167.8	224.3	355	1.2	89.0	30.5	7790	13.26	60.8	11.2	6.0	25	1.9	7.8	1.1	138	0.84	0.094	16



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Project: Nazgul
Report Date: August 23, 2019

Page: 9 of 9

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000298.1

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1895214	Soil	15	0.48	77	0.020	1	1.05	0.004	0.09	0.3	0.12	5.6	0.2	<0.05	3	3.0	0.4
1895215	Soil	27	0.46	93	0.018	<1	1.53	0.006	0.09	0.1	0.11	1.9	0.2	0.10	6	2.2	0.2
1895216	Soil	30	0.46	73	0.024	<1	1.76	0.006	0.09	0.2	0.10	2.2	0.2	0.12	6	6.0	<0.2
1895217	Soil	28	0.72	131	0.027	<1	1.75	0.011	0.15	0.3	0.15	4.5	0.3	0.33	4	5.5	0.4
1895218	Soil	41	1.13	54	0.037	1	2.20	0.010	0.10	0.3	0.16	8.4	0.4	0.17	7	5.8	0.4
1895219	Soil	29	0.56	87	0.037	<1	2.84	0.007	0.09	0.5	0.31	9.0	0.3	0.19	4	4.5	0.3
1895220	Soil	34	1.98	54	0.034	<1	2.39	0.008	0.08	0.8	0.40	7.6	0.6	0.17	7	4.0	0.2
1895221	Soil	11	1.76	82	0.008	4	0.44	0.009	0.06	1.0	0.24	16.9	1.0	0.16	1	3.3	<0.2
1895222	Soil	11	0.33	131	0.015	<1	0.55	0.007	0.09	0.5	0.31	10.6	0.3	0.21	1	7.3	0.2
1895223	Soil	26	1.61	218	0.018	2	1.19	0.008	0.05	0.2	0.10	45.0	0.2	0.11	3	1.0	<0.2
1895224	Soil	30	2.15	272	0.020	<1	1.50	0.009	0.05	0.2	0.13	69.0	0.1	0.11	4	0.7	<0.2
1895225	Soil	37	0.79	261	0.018	2	1.25	0.007	0.08	0.3	0.16	46.4	0.3	0.07	3	1.0	<0.2



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Project: Nazgul
Report Date: August 23, 2019

Page: 1 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1895019	Soil	0.7	191.2	34.9	131	0.5	42.1	37.3	4792	7.84	9.4	10.6	2.9	16	0.2	1.2	0.3	62	0.67	0.106	17
REP 1895019	QC	0.8	189.1	34.0	135	0.6	41.3	36.5	4631	7.65	9.5	7.2	2.8	16	0.3	1.2	0.3	58	0.66	0.106	17
1895055	Soil	1.7	5.2	69.2	144	0.1	6.8	3.0	332	0.62	4.1	1.4	0.4	31	0.7	0.5	<0.1	9	15.02	0.023	3
REP 1895055	QC	2.0	5.8	67.8	164	0.1	7.6	3.0	337	0.70	5.0	2.1	0.4	33	0.7	0.6	<0.1	11	15.97	0.025	3
1895092	Soil	1.5	49.2	24.5	135	0.3	55.5	34.2	2952	5.71	19.5	1.9	2.3	11	0.3	1.7	0.5	73	0.36	0.115	12
REP 1895092	QC	1.4	50.6	24.0	133	0.3	56.1	35.2	3038	5.80	18.6	3.1	2.2	12	0.2	1.6	0.5	73	0.36	0.111	12
1895128	Soil	0.6	191.5	1452.4	1727	1.4	139.9	57.6	5958	8.99	8.1	7.3	1.3	17	5.8	1.1	0.2	121	0.61	0.038	5
REP 1895128	QC	0.8	187.0	1439.5	1681	1.4	136.0	59.7	5754	8.64	8.1	8.6	1.2	16	5.9	1.1	0.2	123	0.61	0.039	5
1895164	Soil	3.7	165.8	288.5	445	1.5	76.5	19.1	6396	13.19	47.3	3.6	4.7	26	2.5	4.8	0.4	294	1.48	0.094	28
REP 1895164	QC	3.7	153.9	273.3	410	1.5	71.0	18.6	6072	12.55	43.7	2.3	4.2	24	2.4	4.6	0.4	299	1.35	0.086	27
1895176	Soil	3.6	88.5	80.0	175	1.6	45.4	13.9	957	3.64	16.6	7.4	1.8	21	0.4	8.0	0.5	32	1.56	0.081	14
REP 1895176	QC	3.5	88.8	80.1	166	1.6	47.6	14.4	982	3.67	16.6	7.0	1.7	22	0.4	8.1	0.5	34	1.65	0.079	13
1895201	Soil	2.0	251.0	296.7	214	1.2	74.0	38.0	5575	8.40	17.8	6.7	2.3	17	0.7	5.6	0.2	66	0.57	0.064	18
REP 1895201	QC	2.1	267.7	313.8	221	1.3	76.5	39.9	5424	8.70	18.6	4.7	2.4	17	0.9	5.3	0.2	66	0.62	0.069	18
Reference Materials																					
STD BVGEO01	Standard	10.6	4193.2	179.2	1591	2.4	157.4	23.0	705	3.63	118.7	200.9	16.0	56	6.4	3.5	24.8	76	1.28	0.075	25
STD BVGEO01	Standard	10.4	4242.7	186.5	1614	2.5	158.3	23.0	692	3.55	113.0	210.3	15.3	57	6.4	2.5	25.7	71	1.25	0.074	25
STD BVGEO01	Standard	10.2	4344.1	194.0	1699	2.6	165.5	25.4	748	3.87	119.1	225.0	15.9	57	5.8	2.6	24.6	77	1.42	0.076	27
STD BVGEO01	Standard	11.2	4253.7	181.2	1621	2.5	161.8	23.2	747	3.73	115.1	238.0	15.5	61	5.9	3.8	24.7	75	1.35	0.069	26
STD DS11	Standard	14.0	138.0	127.5	315	1.5	73.5	12.8	930	2.93	39.6	64.8	8.5	65	2.2	8.4	10.9	46	0.97	0.067	18
STD DS11	Standard	14.0	143.7	131.6	320	1.5	76.4	12.4	952	2.93	42.1	69.7	9.2	64	2.4	8.8	11.5	43	1.03	0.073	19
STD DS11	Standard	14.3	144.7	131.3	324	1.5	77.3	13.4	999	3.09	40.8	55.8	9.4	69	2.4	8.1	10.9	48	1.01	0.072	20
STD DS11	Standard	15.5	159.6	144.1	362	1.8	84.0	14.4	1074	3.33	44.9	67.1	10.3	71	2.5	10.0	12.8	52	1.12	0.080	20
STD DS11	Standard	15.1	149.5	141.3	363	1.7	83.8	14.2	1044	3.10	42.9	67.6	9.1	66	2.4	9.0	11.8	50	1.05	0.076	19
STD OREAS262	Standard	0.6	108.0	54.0	139	0.4	58.0	26.0	503	3.15	33.9	67.6	10.1	34	0.6	5.5	1.0	22	2.80	0.040	17
STD OREAS262	Standard	0.7	109.5	54.0	139	0.4	58.4	24.6	495	3.06	33.0	66.5	10.2	33	0.6	5.8	1.0	21	2.79	0.039	17
STD OREAS262	Standard	0.6	118.5	56.0	151	0.4	63.9	27.5	541	3.45	36.3	54.4	11.0	36	0.7	5.3	1.0	22	2.81	0.042	18
STD OREAS262	Standard	0.7	109.7	54.9	141	0.4	60.1	26.5	516	3.24	34.8	66.4	11.1	34	0.6	5.3	1.0	18	2.82	0.040	16



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Project: Nazgul
Report Date: August 23, 2019

Page: 1 of 2

Part: 2 of 2

QUALITY CONTROL REPORT

WHI19000298.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
1895019	Soil	21	0.72	99	0.011	3	1.32	0.006	0.06	0.1	0.11	13.3	0.1	<0.05	3	0.5	<0.2
REP 1895019	QC	21	0.69	98	0.011	3	1.27	0.006	0.06	<0.1	0.11	13.2	0.1	<0.05	3	<0.5	<0.2
1895055	Soil	5	8.31	102	0.009	<1	0.24	0.007	0.01	<0.1	0.03	1.6	0.1	<0.05	<1	0.7	<0.2
REP 1895055	QC	6	8.91	105	0.010	2	0.29	0.008	0.02	<0.1	0.04	1.6	0.1	<0.05	<1	<0.5	<0.2
1895092	Soil	81	1.34	250	0.015	<1	1.92	0.004	0.06	0.1	0.05	10.9	0.2	<0.05	5	<0.5	<0.2
REP 1895092	QC	82	1.33	247	0.016	1	1.95	0.004	0.06	0.1	0.06	11.0	0.2	<0.05	5	<0.5	<0.2
1895128	Soil	173	1.95	157	0.008	1	2.79	0.002	0.04	<0.1	0.15	22.0	<0.1	<0.05	8	<0.5	<0.2
REP 1895128	QC	169	1.90	155	0.008	2	2.74	0.003	0.05	<0.1	0.15	22.1	<0.1	<0.05	8	0.9	<0.2
1895164	Soil	34	0.67	239	0.016	3	0.78	0.005	0.05	<0.1	0.34	10.8	0.7	<0.05	2	1.7	<0.2
REP 1895164	QC	32	0.64	228	0.015	2	0.71	0.005	0.04	<0.1	0.34	9.7	0.6	<0.05	2	1.3	<0.2
1895176	Soil	16	0.76	37	0.005	3	0.78	0.003	0.05	0.1	0.23	2.3	0.1	<0.05	2	1.6	<0.2
REP 1895176	QC	17	0.75	37	0.005	3	0.79	0.003	0.05	0.1	0.22	2.3	0.1	<0.05	2	2.5	<0.2
1895201	Soil	35	0.51	172	0.008	2	0.88	0.004	0.09	<0.1	0.09	23.5	0.3	<0.05	2	0.8	<0.2
REP 1895201	QC	36	0.54	177	0.009	2	0.91	0.004	0.11	<0.1	0.11	24.4	0.3	<0.05	3	1.0	<0.2
Reference Materials																	
STD BVGEO01	Standard	188	1.21	289	0.208	3	2.15	0.197	0.85	4.5	0.08	6.2	0.6	0.59	7	4.5	0.9
STD BVGEO01	Standard	176	1.27	266	0.215	4	2.19	0.200	0.85	4.9	0.09	6.0	0.6	0.62	8	4.7	0.9
STD BVGEO01	Standard	184	1.37	276	0.228	5	2.34	0.210	0.93	4.9	0.10	6.2	0.7	0.67	7	5.3	1.1
STD BVGEO01	Standard	196	1.33	290	0.235	3	2.28	0.207	0.91	5.2	0.11	5.9	0.6	0.68	7	4.0	1.2
STD DS11	Standard	56	0.77	359	0.089	7	1.11	0.068	0.36	2.6	0.23	3.4	4.7	0.11	5	1.6	4.2
STD DS11	Standard	57	0.77	367	0.092	7	1.11	0.066	0.39	3.1	0.24	3.3	4.6	0.25	5	2.0	4.5
STD DS11	Standard	59	0.83	361	0.096	6	1.19	0.075	0.40	2.7	0.23	3.9	4.6	0.20	5	2.0	4.4
STD DS11	Standard	64	0.88	435	0.102	8	1.22	0.078	0.44	3.5	0.26	4.3	5.1	0.26	5	2.2	4.9
STD DS11	Standard	60	0.86	347	0.093	8	1.15	0.071	0.36	2.8	0.24	3.5	5.1	0.18	5	1.8	4.8
STD OREAS262	Standard	43	1.07	247	0.003	4	1.35	0.063	0.32	0.2	0.14	3.7	0.5	0.12	4	<0.5	0.3
STD OREAS262	Standard	43	1.05	239	0.002	5	1.33	0.063	0.31	0.2	0.15	3.1	0.4	0.19	4	<0.5	0.2
STD OREAS262	Standard	45	1.17	264	0.003	3	1.44	0.068	0.33	0.2	0.17	4.0	0.5	0.20	4	<0.5	0.2
STD OREAS262	Standard	42	1.10	253	0.003	3	1.24	0.064	0.30	0.2	0.17	3.1	0.5	0.20	4	<0.5	<0.2



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Project: Nazgul
Report Date: August 23, 2019

Page: 2 of 2

Part: 1 of 2

QUALITY CONTROL REPORT

WHI19000298.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD OREAS262	Standard	0.7	117.5	54.2	143	0.4	58.7	24.9	552	3.31	35.8	67.1	9.7	35	0.6	6.0	1.0	21	2.77	0.040	16
STD OREAS262	Standard	0.8	116.8	57.7	152	0.5	60.4	28.8	546	3.50	36.2	79.4	9.6	36	0.7	5.8	1.0	22	2.86	0.041	16
STD OREAS262	Standard	0.6	112.4	58.1	154	0.5	62.1	26.4	528	3.23	34.1	78.0	9.8	35	0.7	4.9	1.0	21	2.89	0.039	16
STD OREAS262	Standard	0.9	116.3	60.5	166	0.5	67.9	28.2	546	3.39	36.4	74.9	10.8	36	0.6	5.9	1.1	23	3.02	0.040	17
STD OREAS262	Standard	0.6	114.8	54.3	150	0.4	61.1	25.9	517	3.27	34.8	73.1	9.6	36	0.6	5.7	1.0	21	2.75	0.037	16
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6
STD BVGEO01 Expected		11.2	4415	187	1741	2.53	163	25	733	3.7	121	219	14.4	55	6.5	3.39	25.6	73	1.3219	0.0727	25.9
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04	15.9
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	0.02	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	6	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.2	0.1	<1	<0.1	<0.1	<0.1	1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



QUALITY CONTROL REPORT

WHI19000298.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OREAS262	Standard	43	1.06	250	0.002	4	1.20	0.062	0.28	0.2	0.13	3.3	0.5	0.21	4	<0.5	<0.2
STD OREAS262	Standard	45	1.18	252	0.003	4	1.35	0.067	0.31	0.3	0.17	3.3	0.5	0.27	4	<0.5	0.2
STD OREAS262	Standard	44	1.15	241	0.003	3	1.32	0.065	0.30	0.2	0.17	3.1	0.5	0.12	4	<0.5	0.2
STD OREAS262	Standard	46	1.21	246	0.003	5	1.38	0.070	0.31	0.2	0.17	3.6	0.5	0.16	4	<0.5	<0.2
STD OREAS262	Standard	42	1.09	246	0.002	2	1.32	0.062	0.31	0.2	0.17	3.0	0.5	0.24	4	0.5	0.3
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
STD BVGEO01 Expected		187	1.2963	260	0.233	3.8	2.347	0.1924	0.89	5.3	0.1	5.97	0.62	0.6655	7.37	4.84	1.02
STD OREAS262 Expected		41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	0.12	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Vancouver British Columbia V6G 1T2 Canada

Submitted By: Scott Petsel
Receiving Lab: Canada-Whitehorse
Received: August 02, 2019
Report Date: August 26, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000300.1

CLIENT JOB INFORMATION

Project: Nazgul
Shipment ID: NAZ19-1
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 60 days

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: True Point Exploration Inc.
904 – 409 Granville St.
Vancouver British Columbia V6G 1T2
Canada

CC: Samantha Dyck
Lauren Blackburn

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	20	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	20	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	20	Per sample shipping charges for branch shipments			VAN
PULSW	20	Extra Wash with Silica between each sample			WHI
MA404	8	4 Acid Digest AAS Finish Vancouver	0.5	Completed	VAN

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.



Bureau Veritas Commodities Canada Ltd.

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Vancouver British Columbia V6G 1T2 Canada

Project: Nazgul
Report Date: August 26, 2019

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI19000300.1

Method	Analyte	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
1481718	Rock	0.84	0.3	12.2	9.9	41	<0.1	10.7	7.4	3426	5.17	0.9	<0.5	1.1	8	<0.1	2.0	<0.1	2	0.04	0.014
1481728	Rock	0.61	42.4	70.2	785.2	368	1.9	82.5	17.4	309	32.16	400.9	9.4	1.2	34	1.7	20.2	9.5	42	8.22	0.049
1481729	Rock	0.81	6.5	12.2	8.7	159	0.2	41.6	13.4	121	18.88	3.4	0.9	2.8	2	0.5	3.5	2.1	86	0.02	0.029
1481730	Rock	0.96	0.2	275.1	57.8	109	0.3	26.8	16.7	5980	3.38	1.1	1.1	473.1	347	0.2	0.6	<0.1	50	12.48	0.081
1481731	Rock	1.71	1.5	8.8	494.3	21	1.3	11.6	5.2	1130	1.78	2.7	0.7	8.1	15	<0.1	0.9	2.5	9	1.32	0.010
1481732	Rock	0.95	4.0	12.0	>10000	101	8.2	31.3	6.4	1735	2.89	10.4	0.6	48.6	49	0.8	9.5	2.6	23	5.99	0.049
1481733	Rock	0.74	4.4	49.5	153.6	73	0.8	97.2	121.0	836	11.88	75.6	13.7	3.1	21	0.1	5.4	6.0	26	2.52	0.009
1481734	Rock	1.29	7.0	15.0	>10000	38	28.9	9.2	2.0	517	0.89	3.5	1.9	5.8	26	1.2	37.0	2.9	8	1.53	0.019
1481735	Rock	0.80	0.2	>10000	>10000	1971	11.0	4.1	5.7	435	0.39	<0.5	2.1	0.6	35	3.5	1.3	9.0	10	4.63	0.004
1481736	Rock	0.74	0.2	>10000	185.8	137	3.8	11.4	12.4	790	5.13	<0.5	<0.5	1.0	23	0.2	1.1	0.1	135	2.71	0.072
1481737	Rock	1.41	0.2	1792.7	90.5	32	1.8	9.6	16.9	1517	1.74	7.0	14.2	28.2	50	0.2	2.2	0.5	14	1.30	0.005
1481738	Rock	1.12	21.1	276.1	>10000	>10000	50.4	14.8	7.8	629	3.63	120.8	8.9	3.9	10	54.5	44.7	10.1	25	0.87	0.016
1481739	Rock	1.03	0.3	9.3	34.6	112	<0.1	68.1	19.9	527	6.74	1.2	<0.5	0.4	2	0.1	0.5	<0.1	137	0.13	0.029
1481740	Rock	0.83	22.2	159.2	>10000	>10000	74.8	10.6	6.0	334	4.83	82.7	7.5	4.0	9	97.4	69.6	2.8	12	0.03	0.011
1481741	Rock	1.96	4.0	7.8	237.5	504	0.9	14.9	3.7	2874	2.55	37.7	<0.5	6.5	36	2.3	0.6	2.5	23	7.18	0.002
1497451	Rock	1.31	12.9	98.6	253.5	86	1.6	25.4	31.0	54	4.66	64.3	26.7	6.2	5	0.2	3.5	21.0	27	0.07	0.090
1497452	Rock	1.78	15.6	17.1	5743.6	219	7.8	38.2	6.1	552	1.71	15.2	0.6	6.0	4	0.5	7.6	1.5	39	0.24	0.126
1497453	Rock	1.34	6.2	419.5	>10000	>10000	37.8	78.2	10.9	2946	3.75	157.6	1.7	3.9	15	86.4	34.4	2.3	27	3.04	0.040
1497454	Rock	1.32	26.1	166.1	>10000	9440	66.8	30.1	4.4	321	1.21	53.3	2.5	6.4	7	35.3	60.5	2.1	19	0.18	0.047
1497455	Rock	1.33	21.0	91.8	1459.1	897	2.2	69.8	9.9	552	2.56	16.1	<0.5	6.4	5	3.7	1.8	3.5	42	0.21	0.136



Bureau Veritas Commodities Canada Ltd.

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Project: Nazgul
Report Date: August 26, 2019

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI19000300.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404	MA404	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	0.01	0.01	0.01	
1481718	Rock	2	3	0.06	22	<0.001	2	0.11	0.013	0.08	<0.1	0.02	2.6	<0.1	<0.05	<1	<0.5	<0.2			
1481728	Rock	4	24	2.34	86	0.001	<1	0.14	0.002	0.04	0.1	2.41	5.2	0.5	<0.05	<1	<0.5	<0.2			
1481729	Rock	28	13	0.04	45	0.022	2	0.39	0.002	0.18	3.6	0.10	4.6	0.8	<0.05	1	<0.5	<0.2			
1481730	Rock	12	35	3.33	265	0.005	3	0.92	0.008	0.16	0.3	0.02	14.8	<0.1	<0.05	2	<0.5	<0.2			
1481731	Rock	3	6	0.58	43	<0.001	<1	0.10	0.015	0.04	<0.1	<0.01	4.0	<0.1	0.05	<1	<0.5	<0.2			
1481732	Rock	16	6	2.31	22	<0.001	<1	0.17	0.006	0.11	0.5	0.04	6.9	<0.1	0.30	<1	<0.5	<0.2	<0.01	2.07	0.01
1481733	Rock	1	8	1.07	22	<0.001	<1	0.17	0.015	0.11	<0.1	0.03	5.4	<0.1	2.11	<1	11.4	<0.2			
1481734	Rock	9	5	0.55	64	<0.001	2	0.08	0.006	0.06	0.3	0.03	0.7	0.4	0.81	<1	<0.5	<0.2	<0.01	5.57	<0.01
1481735	Rock	<1	2	0.10	122	0.010	<1	0.23	0.020	0.24	<0.1	0.13	3.2	<0.1	0.19	<1	4.7	0.7	1.19	1.21	0.19
1481736	Rock	3	3	0.90	41	0.449	<1	1.13	0.064	0.01	0.2	0.02	3.2	<0.1	1.91	6	9.0	<0.2	3.12	0.03	0.02
1481737	Rock	<1	6	0.30	38	0.005	2	0.22	0.020	0.07	1.8	0.04	4.9	<0.1	0.47	<1	0.6	<0.2			
1481738	Rock	2	4	0.40	11	0.002	4	0.37	0.006	0.25	0.2	6.57	3.9	0.6	1.35	5	1.6	<0.2	0.03	7.46	1.35
1481739	Rock	1	84	3.26	12	0.005	2	3.77	0.008	0.09	<0.1	0.01	10.0	<0.1	0.15	8	<0.5	<0.2			
1481740	Rock	2	3	0.03	8	<0.001	1	0.14	0.004	0.11	0.1	8.83	2.5	0.4	1.72	5	1.5	<0.2	0.02	11.53	2.98
1481741	Rock	3	3	3.19	11	<0.001	<1	0.23	0.006	0.18	0.3	0.14	6.0	<0.1	0.06	<1	<0.5	<0.2			
1497451	Rock	13	23	0.49	363	0.002	4	1.30	0.004	0.29	<0.1	0.12	2.4	0.7	0.43	4	2.6	<0.2			
1497452	Rock	5	6	0.09	41	0.002	4	0.52	0.005	0.28	0.1	0.05	2.4	0.3	0.15	1	2.5	<0.2			
1497453	Rock	3	4	1.30	13	0.002	2	0.43	0.003	0.12	0.1	3.10	2.6	0.4	1.10	4	7.2	0.3	0.04	4.25	1.48
1497454	Rock	20	5	0.13	16	0.001	2	0.28	0.004	0.12	0.2	6.85	1.3	0.2	1.60	3	2.2	<0.2	0.02	8.35	0.92
1497455	Rock	14	6	0.15	30	0.002	3	0.61	0.004	0.26	0.1	0.17	2.7	0.2	0.10	1	5.3	<0.2			



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Project: Nazgul
Report Date: August 26, 2019

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

WHI19000300.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
Reference Materials																				
STD DS11	Standard	14.3	148.2	143.0	353	1.8	78.7	13.5	1034	3.17	43.6	89.8	8.8	73	2.3	8.2	12.7	51	1.09	0.072
STD DS11	Standard	15.2	157.1	131.8	323	1.7	75.0	13.4	1034	3.19	44.2	84.7	8.8	71	2.5	8.6	12.0	51	1.12	0.079
STD OREAS134B	Standard																			
STD OREAS133A	Standard																			
STD OREAS262	Standard	0.6	117.3	58.4	154	0.5	62.5	26.9	540	3.28	35.2	60.9	8.6	37	0.7	4.6	1.1	22	3.10	0.038
STD OREAS262	Standard	0.7	121.7	53.2	146	0.4	63.4	26.4	522	3.32	35.7	54.7	10.4	34	0.7	4.6	1.0	23	3.07	0.042
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
STD OREAS134B Expected																				
STD OREAS133A Expected																				
BLK	Blank	<0.1	0.1	1.0	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
BLK	Blank																			
Prep Wash																				
ROCK-WHI	Prep Blank	1.1	15.2	3.7	36	<0.1	1.4	4.0	524	1.88	1.5	<0.5	2.3	33	<0.1	<0.1	<0.1	24	0.74	0.045
ROCK-WHI	Prep Blank	0.9	19.1	5.5	32	<0.1	1.4	3.5	478	1.90	1.4	<0.5	2.6	33	<0.1	<0.1	<0.1	27	0.83	0.042



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Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

WHI19000300.1

Method	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404		
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01	0.01	
Reference Materials																					
STD DS11	Standard	18	61	0.90	392	0.097	7	1.21	0.074	0.41	3.0	0.26	3.5	5.1	0.28	5	3.2	4.7			
STD DS11	Standard	20	59	0.90	367	0.096	7	1.25	0.078	0.41	2.8	0.25	3.6	4.9	0.29	5	2.3	4.4			
STD OREAS134B	Standard																		0.13	13.60	18.36
STD OREAS133A	Standard																		0.03	4.93	10.99
STD OREAS262	Standard	16	44	1.17	257	0.003	3	1.30	0.067	0.31	0.2	0.15	3.5	0.4	0.26	4	<0.5	0.3			
STD OREAS262	Standard	18	46	1.19	237	0.003	4	1.47	0.069	0.34	0.2	0.16	3.4	0.4	0.26	4	<0.5	0.2			
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56			
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23			
STD OREAS134B Expected																			0.1348	13.36	18.03
STD OREAS133A Expected																			0.0323	4.9	10.87
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.01	<0.01	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank	7	3	0.51	93	0.087	2	1.12	0.149	0.14	<0.1	<0.01	7.3	<0.1	<0.05	4	<0.5	<0.2			
ROCK-WHI	Prep Blank	7	4	0.45	80	0.092	2	1.20	0.145	0.14	0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2			

Appendix III. Rock Descriptions & Data

Sample no	Sampler	Type	Easting	Northing	Description	Certificate	Weight (kg)	Ag_ppm	Au_ppm	Pb_pct	Zn_pct	Cu_pct	Mo_ppm	Fe_pct	Ni_ppm	Co_ppm	Mn_ppm	As_ppm
1481718	L Blackburn	Grab	490796	7151186	Vuggy and brecciated qtz veins with infilling lim-MnO + galena (<5%)	WHI19000300	0.84	0.05	0.00025	0.00099	0.004	0.00122	0.3	5.17	10.7	7.4	3426	0.9
1481728	L Blackburn	Grab	490902	7151401	100% altered MnO-Hem-Lim dissolution texture min at brecciated limestone-limestone contact; very little material	WHI19000300	0.61	1.9	0.0094	0.07852	0.037	0.00702	42.4	32.16	82.5	17.4	309	400.9
1481729	L Blackburn	Grab	490885	7151394	Argillic altered argillite with hem-mag+/- tetrahedrite (trace)	WHI19000300	0.81	0.2	0.0009	0.00087	0.016	0.00122	6.5	18.88	41.6	13.4	121	3.4
1481730	L Blackburn	Grab	490909	7151091	CC-ankerite vein in basalt with hem (black, botryoidal)+/- mag (semi-destructed); likely wont run	WHI19000300	0.96	0.3	0.0011	0.00578	0.011	0.02751	0.2	3.38	26.8	16.7	5980	1.1
1481731	L Blackburn	Grab	491120	7150966	Vuggy, prismatic qz + ank-lim + galena(tr); extended vein at summit	WHI19000300	1.71	1.3	0.0007	0.04943	0.002	0.00088	1.5	1.78	11.6	5.2	1130	2.7
1481732	L Blackburn	Grab	490989	7150907	Smeagol breccia-vein zone of brecciated basalt-phylite contact healed by CC-ank-galena (<3%)	WHI19000300	0.95	8.2	0.0006	2.07	0.01	0.005	4	2.89	31.3	6.4	1735	10.4
1481733	L Blackburn	Grab	490994	7150905	Pervasively Fe-lim +/- MnO altered basalt + CC w py (euh), cpy (2%); euhedral CC crystals	WHI19000300	0.74	0.8	0.0137	0.01536	0.007	0.00495	4.4	11.88	97.2	121	836	75.6
1481734	L Blackburn	Grab	490961	7150886	Smeagol vein bottom; classic qtz vein breccia (~8m+ thick) with argillic alteration and 8% galena mineralization	WHI19000300	1.29	28.9	0.0019	5.57	0.005	0.005	7	0.89	9.2	2	517	3.5
1481735	L Blackburn	Chip	491193	7150908	Coarsely crystalline CC vein with chrysocolla-malachite-azurite on cliffs of isenring; hosted in gabbro	WHI19000300	0.8	11	0.0021	1.21	0.19	1.19	0.2	0.39	4.1	5.7	435	-0.5
1481736	L Blackburn	Grab	491179	7150932	CC + malachite-chrysocolla vein with cpy nodules	WHI19000300	0.74	3.8	0.00025	0.03	0.02	3.12	0.2	5.13	11.4	12.4	790	-0.5
1481737	L Blackburn	Grab	491438	7151017	Qz-CC-ank vein + cpy-py-gal (tr) + mal (tr)	WHI19000300	1.41	1.8	0.0142	0.00905	0.003	0.17927	0.2	1.74	9.6	16.9	1517	7
1481738	L Blackburn	Grab	490277	7150688	Silica flooded + pervasively argillically altered basalt + 10% galena + qtz + ankerite footwall	WHI19000300	1.12	50.4	0.0089	7.46	1.35	0.03	21.1	3.63	14.8	7.8	629	120.8
1481739	L Blackburn	Grab	490263	7150691	Smaug vein FW; massive milky qz vein + CC w lim-ank vug infill + <1% py-cpy	WHI19000300	1.03	0.05	0.00025	0.00346	0.011	0.00093	0.3	6.74	68.1	19.9	527	1.2
1481740	L Blackburn	Grab	490277	7150688	Oxide cap (?) to Smaug; vein has pervasive replacement with FeCC-ank-lim + <5% galena	WHI19000300	0.83	74.8	0.0075	11.53	2.98	0.02	22.2	4.83	10.6	6	334	82.7
1481741	L Blackburn	Grab	490309	7150662	Qz-CC crystalline vein within graphitic mudstone; brecciated and FeCC/ank; <2% gal	WHI19000300	1.96	0.9	0.00025	0.02375	0.05	0.00078	4	2.55	14.9	3.7	2874	37.7
1497451	T Haid	Grab	490870	7151387	Mineralized (py with tr cpy) argillite with pervasive Fe and MnO; possible hornfels skarn along internal fractures as coatings	WHI19000300	1.31	1.6	0.0267	0.02535	0.009	0.00986	12.9	4.66	25.4	31	54	64.3
1497452	T Haid	Grab	490529	7150644	Pervasively graphitic MnO(?), heavy, black-steely amorphous/massive rock. Quartz calcite veins as stringers	WHI19000300	1.78	7.8	0.0006	0.57436	0.022	0.00171	15.6	1.71	38.2	6.1	552	15.2
1497453	T Haid	Grab	490497	7150639	Galena (8%) as cubic to sooty within qtz vein with strong Fe ox and pervasively alt MnO/graphite ripups. Mineralized in vein and along host rock	WHI19000300	1.34	37.8	0.0017	4.25	1.48	0.04	6.2	3.75	78.2	10.9	2946	157.6
1497454	T Haid	Grab	490482	7150638	Possible continuation of Galadriel vein; mineralization as previous sample but with increased FeOx lined vugs and more sooty than euhedral galena	WHI19000300	1.32	66.8	0.0025	8.35	0.92	0.02	26.1	1.21	30.1	4.4	321	53.3
1497455	T Haid	Grab	490473	7150656	Lower galadriel vein; sooty galena replacement of host rock and minor quartz stringers and increased FeOX	WHI19000300	1.33	2.2	0.00025	0.14591	0.09	0.00918	21	2.56	69.8	9.9	552	16.1

Appendix IV. Soil Descriptions & Data

Sample ID	UTM_East	UTM_North	Sampler	Date Sampled	Org %	Frag %	Slope	Depth cm	Horizon	Colour	Quality	Certificate	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	Cu_ppm	Mo_ppm	Ni_ppm	Co_ppm	Mn_ppm	As_ppm	Fe_pct
1895001	490033	7150594	D Brost	2019-07-22						BR		WHI19000298	0.05	1	648.6	579	73.4	1.4	40	21.9	886	9.4	3.58
1895002	489993	7150572	D Brost	2019-07-22	10	10	35	40	B	IBR	3	WHI19000298	0.4	2.5	2053	1099	163.3	1.6	60.7	27.5	1571	10.8	4.1
1895003	489938	7150550	D Brost	2019-07-22	6	15	45	50	C	IBR	3	WHI19000298	0.5	3.3	170.5	428	117.1	2.1	45.9	14.2	805	16.9	2.96
1895004	489890	7150539	D Brost	2019-07-22	4	20	25	50	C	mBR	4	WHI19000298	0.4	0.6	517.8	276	37.5	1	28	25	2336	10.2	4.08
1895005	489841	7150511	D Brost	2019-07-22	25	10	30	60	B	mBR	2	WHI19000298	1	5.2	276.9	393	256.1	2.5	30.4	27.5	1183	11.7	3.02
1895006	489798	7150499	D Brost	2019-07-22	50	0	25	70	A	RDBRBK	1	WHI19000298	0.5	2.4	82	220	148.6	0.4	16.5	11.7	517	3.6	1.56
1895007	489747	7150478	D Brost	2019-07-22	65	0	20	65	A	RDBRBK	1	WHI19000298	0.1	1.2	84.2	171	75.8	0.8	59	31.3	805	7.6	6.7
1895008	489705	7150463	D Brost	2019-07-22	5	5	20	50	C	IBR	3	WHI19000298	0.4	2.6	113.5	264	48.7	1.6	44.5	18.3	784	23.8	4.05
1895009	489658	7150448	D Brost	2019-07-22	10	10	25	55	B	BR	2	WHI19000298	0.9	28	52.3	245	339.1	1.2	37.4	38.9	1060	21.7	3.9
1895010	489567	7150409	D Brost	2019-07-22	20	10	15	50	B	dBR	2	WHI19000298	0.5	3	78.3	189	212.7	0.8	38.9	28.3	1045	15.7	5.36
1895011	489517	7150398	D Brost	2019-07-22	5	5	10	55	C	IGY	3	WHI19000298	0.05	0.7	33.7	74	16.7	0.7	18.1	8.1	394	3.8	1.78
1895012	490898	7151423	D Brost	2019-07-23	5	15	10	20	C	IBR	4	WHI19000298	0.1	-0.5	25.2	58	5.2	1.7	7.4	3.1	500	12	0.71
1895013	490887	7151486	D Brost	2019-07-23	3	25	35	20	C	mBR	3.5	WHI19000298	0.2	0.8	72.1	122	16	4.2	12.5	4.7	841	25.1	1.45
1895014	490851	7151520	D Brost	2019-07-23	3	30	35	30	C	IRD BR	3.5	WHI19000298	0.2	9.1	25.8	48	62.8	3.7	30.2	17.6	2044	23.2	3.72
1895015	490808	7151545	D Brost	2019-07-23	3	30	30	30	C	IRD BR	3.5	WHI19000298	0.3	5	24.6	100	82.1	2	47.8	27.8	4431	12.9	5.48
1895016	490764	7151588	D Brost	2019-07-23	10	20	40	30	B	mBR	3	WHI19000298	0.6	9.8	17.9	53	114.2	1.1	20.1	14.9	2877	7.6	3.62
1895017	490746	7151635	D Brost	2019-07-23	3	40	30	35	B	IRD BR	3	WHI19000298	0.5	2.9	14.5	79	52.5	0.8	23.7	20.9	5622	6.1	5.7
1895018	490714	7151672	D Brost	2019-07-23	15	30	30	45	B	BR	3	WHI19000298	0.7	2.6	71.7	169	72	1	39.4	29.3	4793	24.6	5.36
1895019	490683	7151709	D Brost	2019-07-23	10	40	45	50	B	IBR	3	WHI19000298	0.5	10.6	34.9	131	191.2	0.7	42.1	37.3	4792	9.4	7.84
1895020	490658	7151749	D Brost	2019-07-23	10	30	40	50	C	IBR	3.5	WHI19000298	0.3	3.2	73	119	41.5	1.3	25.5	18.2	1898	13.9	4.63
1895021	490610	7151787	D Brost	2019-07-23	6	30	40	60	C	BR	3.5	WHI19000298	0.5	1.5	73	110	42.7	1.5	24.7	16.2	1789	20.3	4.51
1895022	490569	7151808	D Brost	2019-07-23	4	30	30	70	C	RD BR	4	WHI19000298	0.2	2.6	47.4	93	22.4	1.1	39.3	52.3	2183	20.5	7.8
1895023	490521	7151842	D Brost	2019-07-23	10	20	25	30	B	BR	3	WHI19000298	0.3	3.1	105.9	169	113.5	0.7	62.8	33	1560	8.6	6.36
1895024	490488	7151882	D Brost	2019-07-23	15	30	30	50	B	RD BR	3.5	WHI19000298	0.6	3.5	97.4	89	54.8	1.8	21.6	20.2	1622	17.1	3.97
1895025	490461	7151929	D Brost	2019-07-23	15	35	25	50	B	GY BR	3	WHI19000298	1.1	2.7	109.1	72	70.4	5.4	56.5	21.1	1003	23.5	4.2
1895026	490435	7151969	D Brost	2019-07-23	20	25	25	30	B	GY BR	3	WHI19000298	1.4	5.9	152.4	106	87.3	4.1	48.2	17.7	925	20.5	3.45
1895027	490403	7152007	D Brost	2019-07-23	10	25	25	35	C	GY BR	3.5	WHI19000298	1.2	5.7	142.5	106	70.5	3.7	39.6	13.6	796	16.7	3.06
1895028	490383	7152057	D Brost	2019-07-23	10	25	35	30	C	GY BR	3.5	WHI19000298	1.3	6.4	159.6	113	72.8	3.5	38.7	14.4	902	16.9	3.22
1895029	489839	7150784	D Brost	2019-07-24	3	5	30	30	C	RD BR	5	WHI19000298	0.2	1.9	154.8	382	52.8	2.1	28.9	12.6	512	12.5	3.48
1895030	489804	7150794	D Brost	2019-07-24	3	3	25	50	B	GY BR	4	WHI19000298	0.7	3.6	274	836	88.1	4.2	56.5	18.4	1129	20.5	3.7
1895031	490047	7150932	P Livingston	2019-07-24	5	10	20	30	B	BR	4	WHI19000298	0.8	1.6	1332.9	1246	47.3	5.3	66.4	12.9	1223	16.9	4.89
1895032	489988	7150933	P Livingston	2019-07-24	10	10	10	50	B	BR	3	WHI19000298	0.3	0.6	255.1	314	24.7	1.7	28.7	7.1	539	3.8	2.43
1895033	489937	7150930	P Livingston	2019-07-24	5	5	15	40	B/C	BR	3	WHI19000298	1	1.6	828.1	878	53.2	6.5	93	21.6	1158	29.4	5.61
1895034	489887	7150921	P Livingston	2019-07-24	5	5	15	50	B/C	BR	4	WHI19000298	1.1	3.2	1219.6	1061	68.2	3.7	75.2	17.5	1072	25.1	4.45
1895035	489836	7150926	P Livingston	2019-07-24	5	5	15	40	B/C	BR	4	WHI19000298	0.2	3.1	143.9	185	47.3	1.9	40.4	25.3	1429	12.5	5.44
1895036	489784	7150936	P Livingston	2019-07-24	10	5	15	30	B/C	BR	3	WHI19000298	0.2	3.9	80.9	249	53.2	1.8	20.3	15	852	7.9	2.99
1895037	489736	7150931	P Livingston	2019-07-24	10	5	15	40	B/C	BR	3	WHI19000298	0.2	2.1	110.9	379	60.7	2.4	25.2	13.1	860	11.4	2.94
1895038	489695	7150907	P Livingston	2019-07-24	15	5	30	40	B/C	BR	2	WHI19000298	0.2	1.7	117.6	410	74.9	3.8	26.9	28	1419	12.2	3.86
1895039	489628	7150906	P Livingston	2019-07-24	20	5	30	20	A/B	BR	1	WHI19000298	0.1	5.1	107.2	245	106.6	2.4	30.6	25.7	1112	9.9	3.57
1895040	489584	7150899	P Livingston	2019-07-24	5	5	10	40	B/C	GY	3.5	WHI19000298	0.7	2.6	438.7	750	103.2	1.3	61.1	36.5	1285	8.5	5.23
1895041	489537	7150893	P Livingston	2019-07-24	5	5	10	40	B/C	GY	3.5	WHI19000298	0.2	-0.5	42.9	100	12.8	2	18.6	12	574	5.8	2.7
1895042	489489	7150889	P Livingston	2019-07-24	5	2.5	10	50	B/C	BK	3.5	WHI19000298	0.1	1.3	55.3	120	49.4	1	13.4	8.4	945	5.2	1.48
1895043	489435	7150888	P Livingston	2019-07-24	5	2.5	10	50	B/C	BK GY	3.5	WHI19000298	0.3	2.5	165	397	107.7	1.6	46.8	21.9	954	9.5	3.67
1895044	489384	7150875	P Livingston	2019-07-24	5	2.5	10	60	B/C	BK	3.5	WHI19000298	0.3	2.4	189.1	471	102.8	1.5	43.9	21.9	919	9.1	3.43
1895045	489335	7150868	P Livingston	2019-07-24	10	2.5	10	60	B/C	BK	3.5	WHI19000298	0.3	2.7	183.6	458	86.1	1.8	45.3	20.7	599	8.7	3.63
1895046	489220	7150860	P Livingston	2019-07-24	10	2.5	10	30	B/C	BK	3.5	WHI19000298	0.7	4.3	375.3	884	237	2.3	88.5	37.7	1538	14.2	6.38
1895047	489238	7150847	P Livingston	2019-07-24	15	17.5	5	25	B/C	BR GY	3.5	WHI19000298	0.1	0.9	35.7	102	26	1.4	16.3	9.6	436	3.8	2.3
1895048	489188	7150842	P Livingston	2019-07-24	15	17.5	5	35	B/C	BR GY	3.5	WHI19000298	0.2	1.5	153.9	254	77.6	1	40.8	22.6	901	6	3.8
1895049	489141	7150830	P Livingston	2019-07-24	10	25	5	60	B/C	GY	3.5	WHI19000298	0.1	0.6	26.3	72	11.3	1.2	16.4	9.5	352	3.7	2.26
1895050	490959	7151451	P Livingston	2019-07-24	5	10	15	15	C	GY BR	2.5	WHI19000298	0.3	0.7	37.1	56	9.1	2.7	15.3	7	1238	19	1.54
1895051	490951	7151246	P Livingston	2019-07-24	5	10	15	40	B/C	BR	4	WHI19000298	0.9	5.6	57.1	115	64.7	1.6	51.8	39.9	3107	21.6	6.21
1895052	490966	7151134	P Livingston	2019-07-24	5	10	15	40	B/C	BR	4	WHI19000298	0.2	5.6	60.2	225	59.3	1	50	32.4	7556	8.7	9.1
1895053	491038	7151024	P Livingston	2019-07-24	5	15	15	25	B/C	BR	3	WHI19000298	0.6	3	103.4	219	31.8	3.7	41.8	16.2	6335	17	6.7
1895054	491185	7150935	P Livingston	2019-07-24		15	0	25	0	BR		WHI19000298	0.2	31.4	180.7	358	338.4	1.4	38.7	16.2	672	10.7	3.6
1895055	491215	7151862	P Livingston	2019-07-25	5	5	15	15	C	GY	4	WHI19000298	0.1	1.4	69.2	144	5.2	1.7	6.8	3	332	4.1	0.62

Sample ID	UTM_East	UTM_North	Sampler	Date Sampled	Org %	Frag %	Slope	Depth cm	Horizon	Colour	Quality	Certificate	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	Cu_ppm	Mo_ppm	Ni_ppm	Co_ppm	Mn_ppm	As_ppm	Fe_pct
1895056	491127	7151806	P Livingston	2019-07-25	5	5	15	15	C	GY	4	WHI19000298	0.05	-0.5	31.7	66	3	0.8	2.8	1.4	322	2.3	0.39
1895057	491064	7151721	P Livingston	2019-07-25	5	10	15	15	C	GY	4	WHI19000298	0.1	-0.5	97.9	162	3	1.3	3.9	1.8	372	1.9	0.52
1895058	491007	7151631	P Livingston	2019-07-25	5	10	15	15	C	GY BR	3	WHI19000298	0.05	1.1	26.8	48	3.5	0.3	3	2.8	243	2.5	0.81
1895059	490985	7151514	P Livingston	2019-07-25	5	15	15	15	B/C	GY BR	3	WHI19000298	0.3	0.6	32.5	72	10.9	3	23.6	12.4	1846	24.1	2.54
1895060	490993	7151409	P Livingston	2019-07-25	5	20	15	15	B/C	BR	4	WHI19000298	2.3	10.6	37.8	146	78.3	2.1	51.3	45.3	7521	24	10.34
1895062	490139	7150558	M Linley	2019-07-22	30	20	60	5	B	TAN	2	WHI19000298	1	4	1794.5	1288	120	1.4	51.4	32.1	2714	11.7	5.18
1895063	490129	7150514	M Linley	2019-07-22	60	5	50	5	A	BR	1	WHI19000298	0.6	0.5	546.9	596	171.4	2.1	41.1	46.3	3720	10.6	8.78
1895064	490044	7150429	M Linley	2019-07-22	50	10	50	5	A	BR	1	WHI19000298	0.9	1.8	509.2	763	132.8	2.3	65.6	36.4	2273	17.4	7.15
1895065	490015	7150357	M Linley	2019-07-22	10	5	45	55	B	BR	2.5	WHI19000298	1.6	7.8	396.1	617	301.4	4.3	72.5	56.1	927	24.4	6.07
1895066	490003	7150285	M Linley	2019-07-22	10	5	40	60	B	BR	3	WHI19000298	0.4	2.3	223.3	359	64	1.8	56.6	31	1513	8.5	5.54
1895067	489965	7150242	M Linley	2019-07-22	10	5	35	70	B	BR	3	WHI19000298	0.5	2.6	227	417	75.7	2	55.7	25.1	1309	10	4.44
1895068	489942	7150194	M Linley	2019-07-22	20	20	30	70	B	BR	2	WHI19000298	0.6	3	113	252	91.4	1.7	41.1	18.6	880	11.6	3.71
1895069	489892	7150176	M Linley	2019-07-22	15	5	30	80	B	BR	2	WHI19000298	0.5	1.2	127.3	277	53.7	2.6	41.9	18.9	1253	13.4	4.33
1895070	489849	7150147	M Linley	2019-07-22	2	5	30	75	B/C	BR	3.5	WHI19000298	0.5	4.2	314.9	383	82.7	2.3	57.9	28.3	1171	13.2	5.36
1895071	489811	7150107	M Linley	2019-07-22	15	5	25	70	B	BR	2.5	WHI19000298	1.2	6.7	309.8	618	145	4	78.7	51.8	1707	49.9	7.58
1895072	489784	7150077	M Linley	2019-07-22	10	5	25	70	B	BR	3	WHI19000298	0.5	1.9	170.1	530	56.4	2.4	49.9	24.2	1343	12.5	4.73
1895073	489738	7150053	M Linley	2019-07-22	5	5	20	65	B/C	BR	3.5	WHI19000298	0.7	3.2	217	688	69.5	3.1	46	25.4	1443	18.3	5.33
1895074	489726	7149998	M Linley	2019-07-22	10	0	15	75	B	BR	2.5	WHI19000298	0.4	2	143.1	271	50.1	1.5	40.3	19.1	814	11.8	3.79
1895075	489686	7149963	M Linley	2019-07-22	10	2	20	70	B	BR	2	WHI19000298	0.3	0.9	110	315	54.2	1.5	43.4	19.3	1052	11.9	3.91
1895076	489329	7150326	M Linley	2019-07-22	10	2	20	80	B	BR	2	WHI19000298	0.3	5	98.7	227	55.4	0.9	36.7	17.7	814	7.9	3.22
1895077	489377	7150346	M Linley	2019-07-22	5	5	25	90	B	mBR	3	WHI19000298	0.3	1.5	139.3	269	106.5	1	39.7	18.8	746	6.8	3.63
1895078	489450	7150345	M Linley	2019-07-22	5	5	40	80	B	BR	3	WHI19000298	0.4	3.1	200	244	55.4	0.9	36.1	19.9	662	6.2	3.26
1895079	489489	7150382	M Linley	2019-07-22	10	1	10	50	B	RD BR	3	WHI19000298	1.4	11	169.6	173	607.6	0.2	124.6	102.7	1736	69.9	9.2
1895080	490921	7151494	M Linley	2019-07-23	5	5	20	10	C	BR	4	WHI19000298	0.4	0.6	40.9	64	10.6	5	13.1	5.5	1412	28.5	1.71
1895081	490909	7151535	M Linley	2019-07-23	5	10	5	20	C	OR	5	WHI19000298	0.3	-0.5	37.9	21	8.8	3.8	2.1	12.1	300	8.4	6
1895082	490921	7151577	M Linley	2019-07-23	5	10	5	10	B/C	BR	3.5	WHI19000298	0.5	-0.5	54.7	102	7.9	7.4	9.9	4.4	769	23.7	0.98
1895083	490937	7151624	M Linley	2019-07-23	2	5	5	20	C	OR TAN	4.5	WHI19000298	0.5	2.7	154.9	1167	96.5	30.5	115.7	26.6	766	38.8	3.62
1895084	490954	7151664	M Linley	2019-07-23	2	5	5	20	C	OR TAN	4.5	WHI19000298	0.05	-0.5	28.6	150	6.2	1.4	8.7	2.8	254	4.5	0.55
1895085	490991	7151697	M Linley	2019-07-23	5	5	15	50	B/C	BR OR	4	WHI19000298	0.3	1.8	54.6	313	33.1	3.5	29.2	22.3	268	7.5	2.01
1895086	491007	7151784	M Linley	2019-07-23	5	5	10	50	B/C	TAN	3.5	WHI19000298	0.1	0.7	15.7	84	9.9	3.8	18.5	7.2	351	9	1.22
1895087	491034	7151784	M Linley	2019-07-23	2	5	35	40	C	TAN WH	4.5	WHI19000298	0.05	-0.5	44	40	2.6	1.1	2.7	2.7	190	3.3	0.86
1895088	491076	7151843	M Linley	2019-07-23	0	5	10	40	C	TAN WH	4.5	WHI19000298	0.1	-0.5	221	184	5.3	1.5	5.7	3.9	395	7.9	1.45
1895089	491115	7151879	M Linley	2019-07-23	5	5	30	30	B/C	TAN	3	WHI19000298	0.05	-0.5	99.9	126	7.6	1.1	11.9	6.2	491	4.9	1.46
1895090	491135	7151933	M Linley	2019-07-23	0	2	15	80	C	WH TAN	5	WHI19000298	0.05	1.9	200.9	66	3.8	3.1	2.9	4.9	495	3.7	0.95
1895091	490963	7151376	P Livingston	2019-07-23	5	5	15	60	B/C	BR	3	WHI19000298	0.5	1.3	22.9	62	30.2	1.6	46	22.5	1728	16.1	4.36
1895092	491033	7151404	P Livingston	2019-07-23	5	10	15	30	B/C	BR	3	WHI19000298	0.3	1.9	24.5	135	49.2	1.5	55.5	34.2	2952	19.5	5.71
1895093	491074	7151417	P Livingston	2019-07-23	10	15	15	30	B/C	BR	1	WHI19000298	0.5	1.2	35.8	162	81.4	1.3	59.1	53.7	6302	16.8	8.89
1895094	491122	7151430	P Livingston	2019-07-23	5	10	15	40	A/B	BR	4	WHI19000298	0.3	4.4	27	95	35.4	2.1	32.7	19.3	1539	22.5	4.36
1895095	491175	7151446	P Livingston	2019-07-23	5	10	15	40	B/C	BR	4	WHI19000298	0.2	4	15.7	103	86.8	0.6	33.8	24.2	2972	7.7	5.48
1895096	491226	7151451	P Livingston	2019-07-23	10	10	15	30	B/C	BR	3	WHI19000298	0.05	1.7	49.2	128	53.4	1	28.2	15	1055	9.2	4.33
1895097	491276	7151447	P Livingston	2019-07-23	5	5	15	40	B/C	BR	4	WHI19000298	0.05	0.7	24.9	123	45.4	0.9	27.4	15.3	1134	12.4	4.68
1895098	491327	7151448	P Livingston	2019-07-23	5	10	15	40	B/C	BR	4	WHI19000298	0.2	2.1	44.9	165	34.1	1.1	24	15.1	927	13.6	3.58
1895099	491381	7151428	P Livingston	2019-07-23	5	10	15	30	B/C	BR	3	WHI19000298	0.2	0.6	73.5	174	38.4	1	25.6	15.8	1519	11	4.38
1895100	491406	7151394	P Livingston	2019-07-23	5	5	15	40	B/C	BR	3	WHI19000298	0.1	2	149.2	206	38.8	0.8	34	17.3	1342	10.1	4.9
1895101	490436	7151215	P Livingston	2019-07-23	5	15	15	10	A/B	GY BR	1	WHI19000298	0.3	-0.5	50.9	63	17.2	0.8	19.5	15.8	3906	7	4.6
1895102	490379	7151232	P Livingston	2019-07-23	15	20	15	10	A/B	GY BR	1	WHI19000298	0.7	3.5	179.2	145	69.3	1	73.5	55.3	3348	19.6	6.99
1895103	490331	7151248	P Livingston	2019-07-23	20	20	15	5	A/B	GY BR	1	WHI19000298	0.2	1.2	22.3	152	47.8	0.3	47.8	70.3	9652	13.9	10.87
1895104	490275	7151263	P Livingston	2019-07-23	20	10	15	60	A/B	BK	1	WHI19000298	1.4	4.8	98.6	69	50.4	1.1	29	23.5	2770	10.7	3.96
1895105	490232	7151285	P Livingston	2019-07-23	20	15	15	40	B/C	BR	2	WHI19000298	0.6	-0.5	53	140	25	3.8	36.3	13.3	748	11.6	3.53
1895106	490188	7151309	P Livingston	2019-07-23	5	15	15	40	B/C	BR	1	WHI19000298	0.7	-0.5	55.5	145	16.3	2.1	21.9	10.3	644	7.1	2.93
1895107	490132	7151315	P Livingston	2019-07-24	5	10	15	40	B/C	BR	3.5	WHI19000298	2.3	-0.5	109.1	95	74.4	4.2	31.3	16.1	1515	20.8	3.31
1895108	490094	7151338	P Livingston	2019-07-24	5	10	15	40	B/C	BR	3.5	WHI19000298	1.9	0.5	194.5	164	58.5	3.1	37.6	14.1	1054	16.9	3.36
1895109	490046	7151354	P Livingston	2019-07-24	5	10	15	30	B/C	GY	3	WHI19000298	1	-0.5	111.3	122	40.8	2.8	29.4	11.2	892	15.1	2.8
1895110	489997	7151369	P Livingston	2019-07-24	5	5	15	60	B/C	BK	4	WHI19000298	1	2.9	94.8	205	51.6	2.5	38	13.8	1337	15	2.94
1895111	489897	7151401	P Livingston	2019-07-24	5	10	15	40	B/C	BR	3	WHI19000298	1	0.8	89.1	115	52.4	2.7	37.9	23.8	2066	18	5.02

Sample ID	UTM_East	UTM_North	Sampler	Date Sampled	Org %	Frag %	Slope	Depth cm	Horizon	Colour	Quality	Certificate	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	Cu_ppm	Mo_ppm	Ni_ppm	Co_ppm	Mn_ppm	As_ppm	Fe_pct
1895112	489846	7151419	P Livingston	2019-07-24	5	5	15	50	B/C	BR	3.5	WHI19000298	0.8	-0.5	71.7	135	35.5	2.4	32.9	21.5	2921	14.3	4.4
1895113	489797	7151449	P Livingston	2019-07-24	5	5	15	50	B/C	BR	3.5	WHI19000298	1.1	1.5	95.8	176	49.5	3.6	47.6	25.9	2381	20	4.79
1895114	489761	7151484	P Livingston	2019-07-24	5	5	15	60	B/C	BR	4	WHI19000298	0.7	-0.5	71.4	140	32.8	3.5	34.6	15	1235	15.5	4.06
1895115	489746	7151529	P Livingston	2019-07-24	5	5	15	60	B/C	BR	4	WHI19000298	1	2	82.5	138	45.3	4.7	40.5	21.7	2020	16.5	4.63
1895116	491167	7151911	P Livingston	2019-07-24	5	5	15	15	C	GY BR	4	WHI19000298	0.1	-0.5	249.7	395	7.4	3.7	8.6	5.5	354	5.6	1.24
1895117	491074	7151824	P Livingston	2019-07-24	5	5	15	15	C	GY BR	4	WHI19000298	0.2	-0.5	140.9	193	4.1	1.1	2.8	3.5	390	4.1	1.06
1895118	491022	7151763	P Livingston	2019-07-24	5	5	15	15	C	GY BR	4	WHI19000298	0.05	-0.5	26.4	63	5.5	1.6	5.9	4.3	302	3.5	1.1
1895119	490966	7151677	P Livingston	2019-07-24	5	5	15	15	C	GY BR	4	WHI19000298	0.05	1.9	25	88	11.1	0.7	13.2	7.1	427	7	1.83
1895120	490963	7151550	P Livingston	2019-07-24	5	10	15	15	C	GY BR	4	WHI19000298	0.2	-0.5	21.7	38	6.1	2.9	9.2	5.3	697	15.7	1.48
1895121	491248	7150923	M Linley	2019-07-24	10	5	40	10	B/C	BR	3.5	WHI19000298	0.05	0.8	55.3	166	23.2	1.3	36.3	24.9	2849	5.9	4.65
1895122	491300	7150929	M Linley	2019-07-24	10	5	10	10	B	BR	3	WHI19000298	0.05	2.5	38.4	92	24.6	1.5	30.5	11	471	10.4	3.24
1895123	491351	7150931	M Linley	2019-07-24	15	2	30	25	B	BR	2.5	WHI19000298	0.05	3.5	92.4	125	17.9	1	27.9	10.5	484	11.4	2.65
1895124	491395	7150952	M Linley	2019-07-24	0	5	30	20	C	RD BR	5	WHI19000298	0.05	-0.5	93.4	75	20.3	-0.1	25.4	11.8	5247	-0.5	3.96
1895125	491437	7150952	M Linley	2019-07-24	10	2	30	20	B	BR	2.5	WHI19000298	0.2	2.3	234.9	108	18.4	1.4	26.9	9	452	12.4	3.31
1895126	491441	7151019	M Linley	2019-07-24	5	25	40	10	B/C	RD BR	4	WHI19000298	0.3	4.9	306.6	224	80.9	1.5	51.1	30.3	10000	5.2	16.39
1895127	491496	7151011	M Linley	2019-07-24	5	20	40	5	B/C	RD	4	WHI19000298	0.8	2.7	859.1	267	229.1	0.9	56.4	26.8	10000	4.4	15.33
1895128	491505	7150948	M Linley	2019-07-24	5	15	40	20	B/C	BR	3.5	WHI19000298	1.4	7.3	1452.4	1727	191.5	0.6	139.9	57.6	5958	8.1	8.99
1895129	491478	7150921	M Linley	2019-07-24	20	20	50	10	A/B/	BR	3	WHI19000298	2	10.8	1881	516	277.6	3	96.1	37.7	5440	19.8	7.22
1895130	491429	7150887	M Linley	2019-07-24	5	10	60	10	B/C	RD BR	4.5	WHI19000298	0.9	8.3	937.6	647	121.4	0.6	94.1	42.8	10000	11	10.61
1895131	491550	7150963	M Linley	2019-07-24	5	10	50	10	B/C	OR	4	WHI19000298	1.4	11.2	256.3	1616	350	4.2	99.2	81.3	2887	24.8	11.51
1895132	491575	7151002	M Linley	2019-07-24	2	15	40	70	B/C	BR	4.5	WHI19000298	0.7	3.1	1275.3	297	166.7	0.5	68.5	30.9	8275	3.2	8.88
1895133	491592	7151057	M Linley	2019-07-24	2	10	35	80	B/C	RD BR	4.5	WHI19000298	0.4	3.3	105.2	232	59.2	0.8	90.2	56.8	6740	7.7	9.38
1895134	491587	7151113	M Linley	2019-07-24	5	10	35	75	B/C	BR	3.5	WHI19000298	0.5	2.3	456.8	389	62.4	0.9	45.9	33.6	3316	7.9	4.42
1895135	491640	7151118	M Linley	2019-07-24	0	2	40	75	C	GN	5	WHI19000298	0.5	3.2	810.7	317	50.3	0.3	72	27.3	3882	1.6	4.81
1895136	491004	7151287	P Livingston	2019-07-25	5	15	15	50	B/C	BR	4	WHI19000298	0.5	3.7	21.8	133	53	1.4	36.2	25	4630	10.6	6.09
1895137	490995	7151196	P Livingston	2019-07-25	5	15	15	40	B/C	BR	4	WHI19000298	0.3	-0.5	35.5	123	79.4	0.9	36.7	18.3	1748	11.9	4.22
1895138	491039	7151073	P Livingston	2019-07-25	5	10	15	40	B/C	BR	4	WHI19000298	1	10.3	301.7	389	82.1	7.4	58.3	25.7	3374	36.6	6.15
1895139	491152	7150954	P Livingston	2019-07-25	5	10	15	30	B/C	BR	4	WHI19000298	0.3	9.3	335.4	273	122.2	1.2	51.7	30.4	2227	6.3	5.5
1895140	491142	7150885	P Livingston	2019-07-25	5	5	20	20	B/C	BR	4	WHI19000298	0.5	10.8	381.1	542	394.9	0.7	43.9	43.3	2612	5.5	6.55
1895141	490068	7150638	D Brost	2019-07-25	2	10	30	45	C	RD BR	4	WHI19000298	0.5	4.3	638.5	530	154.5	1.1	59.7	38.2	4374	7.2	9.72
1895142	490090	7150739	D Brost	2019-07-25	3	10	35	40	B	BR	3.5	WHI19000298	0.8	4	845	469	257	1.6	39.8	26.2	1279	17.1	3.94
1895143	491009	7150832	D Brost	2019-07-25	4	8	35	40	C	RD BR	4.5	WHI19000298	1	5.3	565	638	100.1	4.3	73	32.2	3824	40.9	8.65
1895144	490320	7150899	D Brost	2019-07-25	2	2	35	60	C	IBR WH	4.5	WHI19000298	0.5	3.2	191.2	408	64.5	3.5	57.7	13.5	680	37.8	3.18
1895145	490356	7150942	D Brost	2019-07-25	4	8	30	50	B	RD BR	3.5	WHI19000298	0.2	-0.5	63.5	141	25.4	5.2	23.9	7.5	431	10.7	3.18
1895146	490426	7151040	D Brost	2019-07-25	6	8	35	45	B	IBR	4	WHI19000298	0.2	1.4	128.5	247	29.6	3.7	26	10.7	1057	13.5	3.92
1895147	490385	7151102	D Brost	2019-07-25	5	6	35	45	B	IBR	4	WHI19000298	0.7	1.8	220.7	252	46.4	4.5	29.5	17.1	1531	22.2	4.61
1895148	490353	7151220	D Brost	2019-07-25	6	6	35	40	C	BR	4	WHI19000298	3.3	5.2	525.7	163	64.7	5.9	59.3	45.9	1785	44.9	7.31
1895149	490412	7151352	D Brost	2019-07-25	5	14	35	45	C	GY	4	WHI19000298	1	0.6	104.2	122	60.1	4.2	50.7	39.7	1828	32	4.66
1895150	490429	7151523	D Brost	2019-07-25	30	6	35	40	B	dRD BR	3.5	WHI19000298	1.6	2.7	170.5	93	13.3	2.1	42.8	59.3	4439	23.2	10.36
1895151	491168	7151967	M Linley	2019-07-23	0	1	10	30	C	OR	5	WHI19000298	0.4	0.8	183.4	904	89.9	22.9	207	68.2	454	58	4.53
1895152	491200	7152008	M Linley	2019-07-23	5	2	10	30	B	BR	3	WHI19000298	0.1	3.6	45.7	112	15.4	1.6	21.3	7.9	549	7.8	1.95
1895153	491224	7152037	M Linley	2019-07-23	2	5	20	5	C	OR	4	WHI19000298	0.7	2	248.4	1129	99.5	53.6	211.2	30	827	132.4	16.33
1895154	491250	7152092	M Linley	2019-07-23	0	5	20	30	C	TAN OR	5	WHI19000298	0.05	-0.5	7	156	10.6	2	41.3	2.7	418	8.5	0.57
1895155	491294	7152125	M Linley	2019-07-23	5	2	5	20	B	GY BR	2.5	WHI19000298	0.05	1.2	12.7	104	10.9	0.8	13.2	6	597	6.2	1.3
1895156	491336	7152167	M Linley	2019-07-23	2	5	5	20	B/C	GY	3	WHI19000298	0.05	-0.5	8.4	81	11.1	0.7	11.8	5.2	387	6.1	1.33
1895157	491391	7152249	M Linley	2019-07-23	2	5	5	10	B/C	GY	3	WHI19000298	0.4	-0.5	11.8	496	18	11	21.8	5.9	458	9.9	1
1895158	491487	7152245	M Linley	2019-07-23	2	2	5	20	C	GY	4	WHI19000298	4.1	2.8	25.2	924	207	60.4	139.1	42.6	432	73.5	4.37
1895159	491553	7152289	M Linley	2019-07-23	0	20	15	50	C	BR	5	WHI19000298	0.4	-0.5	10.2	124	77.3	6	126.2	71.3	740	1.3	9.31
1895160	491659	7152277	M Linley	2019-07-24	0	2	5	20	C	GY BK	5	WHI19000298	1.4	1.2	9.8	511	83.8	41.3	93	7.7	177	23.2	1.42
1895161	491717	7152232	M Linley	2019-07-24	2	2	20	30	B/C	GY BK	4	WHI19000298	0.7	-0.5	8.5	337	57.1	34.5	79.4	20.8	1100	10.7	4.01
1895162	491762	7152145	M Linley	2019-07-24	5	5	30	30	B	GY BK	3.5	WHI19000298	2.6	1.5	12.7	643	92.6	77.8	94.7	6	118	53.6	1.42
1895163	491900	7152112	M Linley	2019-07-24	2	5	20	70	B/C	GY BK	4	WHI19000298	0.6	7.6	31.6	1428	466.6	133.7	160.4	7.3	123	106.5	2.51
1895164	491015	7150970	M Linley	2019-07-24	2	20	20	10	C	OR RD	5	WHI19000298	1.5	3.6	288.5	445	165.8	3.7	76.5	19.1	6396	47.3	13.19
1895165	491067	7150957	M Linley	2019-07-24	5	20	20	5	C	OR	5	WHI19000298	0.8	8.3	75.1	255	55.9	6.7	57.3	19.6	4160	12	11.97
1895166	491095	7150942	M Linley	2019-07-24	0	5	10	120	C	OR RD	5	WHI19000298	3.7	12.6	6119	1032	144.1	4.3	74.3	25.6	3653	25.7	7.09

Sample ID	UTM_East	UTM_North	Sampler	Date Sampled	Org %	Frag %	Slope	Depth cm	Horizon	Colour	Qualty	Certificate	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	Cu_ppm	Mo_ppm	Ni_ppm	Co_ppm	Mn_ppm	As_ppm	Fe_pct
1895167	491129	7150921	M Linley	2019-07-24	20	2	50	5	B	BR	3	WHI19000298	0.2	3.1	364.1	238	86.8	1.1	38.1	17	1267	6.8	3.68
1895168	491128	7150970	M Linley	2019-07-24	10	5	45	10	B/C	OR RD	4.5	WHI19000298	1.1	5.5	390.6	310	34.4	3.4	69.9	21.8	9360	13.2	13.82
1895169	491166	7150936	M Linley	2019-07-24	15	5	10	10	A/B/	RD BR	3.5	WHI19000298	1.2	95.2	775.9	220	552.2	0.7	51.9	62.3	10000	6	10.07
1895170	491207	7150934	M Linley	2019-07-24	15	2	10	30	B	BR	2.5	WHI19000298	0.2	3.4	247.8	286	100.2	1.1	32.6	14.7	796	7.7	3.26
1895171	489890	7150991	D Brost	2019-07-24	2	40	35	50	C	RD BR	3.5	WHI19000298	15.6	10.5	7308.9	10000	303.6	10.9	226.8	44.6	4647	253.5	10.07
1895172	490010	7151065	D Brost	2019-07-24	2	10	30	50	B	BR	3.5	WHI19000298	0.5	2.3	157.8	592	73.2	5.4	60.1	13.2	758	10.3	3.81
1895173	490124	7151113	D Brost	2019-07-24	3	10	25	55	B	BR	3.5	WHI19000298	1.5	4.1	366.5	619	119.6	5.5	62.9	33.2	1782	31.2	6.57
1895174	490118	7151232	D Brost	2019-07-24	5	10	30	60	B	GY BR	3.5	WHI19000298	1.5	7.5	125.9	160	79.9	2.4	67.9	18.8	1411	32.2	4.02
1895175	490122	7151337	D Brost	2019-07-24	5	8	35	45	B	RD BR	3.5	WHI19000298	6.3	1.2	269.5	210	42.5	3.8	36.5	14.8	1394	13.6	4.09
1895176	490149	7151436	D Brost	2019-07-24	4	5	35	40	B	BR	3.5	WHI19000298	1.6	7.4	80	175	88.5	3.6	45.4	13.9	957	16.6	3.64
1895177	490171	7151545	D Brost	2019-07-24	40	5	40	45	B	dBR	3	WHI19000298	1.3	4.2	86.7	132	44.5	4.1	35.3	15.5	957	16.6	3.19
1895178	490206	7151624	D Brost	2019-07-24	30	5	30	50	B	BR	3	WHI19000298	1.6	9.3	236.7	231	90	7.2	66.3	28.1	1097	50.7	5.34
1895179	490253	7151688	D Brost	2019-07-24	40	6	30	45	B	dBR	3	WHI19000298	1	5.7	122.4	155	80.6	8.1	47.4	23.7	1184	42	5.19
1895180	490275	7151789	D Brost	2019-07-24	35	3	35	45	B	IBR	3	WHI19000298	1.6	4.6	412.1	347	149.2	11.8	39.8	28.8	730	43.2	5.86
1895181	490302	7151880	D Brost	2019-07-24	5	15	40	40	C	RD BR	4	WHI19000298	3.1	4.8	2542	2180	281.1	12.4	141.8	75.5	1291	122.4	9.75
1895182	490321	7151977	D Brost	2019-07-24	30	5	35	45	B	dBR	3.5	WHI19000298	1.1	4.7	110.3	129	57.6	4	34.8	14.4	874	17.2	3.86
1895183	490491	7151650	D Brost	2019-07-25	5	8	35	40	B	dRD BR	3.5	WHI19000298	0.3	1.4	32.4	80	14.8	3.4	34.9	36.5	3062	16.9	7.27
1895184	490488	7151746	D Brost	2019-07-25	8	8	40	35	B	RD BR	3.5	WHI19000298	0.4	2	67.7	142	42.8	0.9	23.2	18.5	3911	14	4.93
1895185	490525	7151829	D Brost	2019-07-25	4	6	30	50	C	RD BR	4.5	WHI19000298	0.4	4.9	137.1	145	107.8	1.3	42.6	27.8	2599	15	6.03
1895186	490579	7151904	D Brost	2019-07-25	3	15	35	30	B	RD BR	4	WHI19000298	0.5	6.1	106.5	118	105.9	1.1	39.2	35.6	2805	15.6	6.98
1895187	490663	7152053	D Brost	2019-07-25	3	50	30	30	C	RD BR	3.5	WHI19000298	0.3	1.8	41.4	99	48.7	2.5	31.3	18.7	2012	20.4	3.93
1895188	490719	7152125	D Brost	2019-07-25	35	5	35	40	B	BR	3	WHI19000298	1.4	3	98.4	179	74.3	6.5	61.3	22.3	2007	44.7	4.45
1895189	490744	7152247	D Brost	2019-07-25	30	5	30	45	B	BR	3	WHI19000298	1.2	2	80.8	137	41.6	3.5	40.7	19.1	2297	17.9	5.1
1895190	490788	7152333	D Brost	2019-07-25	35	5	35	50	B	IBR	3	WHI19000298	0.6	2.9	51.8	134	28.4	3.5	31.6	16.7	2244	18.1	3.28
1895191	491096	7150869	P Livingston	2019-07-25	5	5	20	20	B/C	BR	4	WHI19000298	0.5	6.6	252.6	242	309	1.9	51	41.6	3135	5.8	7.2
1895192	490917	7150830	P Livingston	2019-07-25	5	5	15	40	B/C	BR	4	WHI19000298	0.2	5.8	222.4	282	61.8	9.3	32.2	16	1044	10.8	3.85
1895193	490827	7150749	P Livingston	2019-07-25	5	5	15	30	B/C	BR	3.5	WHI19000298	0.2	7.3	108.6	159	203.5	2.1	35.9	25.6	1184	8.2	4.79
1895194	490775	7150733	P Livingston	2019-07-25	5	10	15	20	B/C	BR	3	WHI19000298	0.8	3.3	808.4	574	102	11.8	48.9	27	924	25.5	4.65
1895195	490692	7150666	P Livingston	2019-07-25	5	5	20	30	B/C	BR	4	WHI19000298	0.6	4.1	142.3	241	74.7	3.2	61.8	23.2	121	46	3.8
1895196	490649	7150577	P Livingston	2019-07-25	10	5	15	30	B/C	BR	3	WHI19000298	0.2	5	396.6	342	209.7	0.8	59.5	50.8	5404	3.1	8.32
1895197	490489	7150555	P Livingston	2019-07-25	5	10	20	20	B/C	BR	4	WHI19000298	1	35	205.8	393	502.2	1.1	73.9	70.9	9886	6.3	13.93
1895198	490240	7150589	P Livingston	2019-07-24								WHI19000298	0.2	2.7	891.7	684	94.4	1.4	40.8	24.6	1350	9.5	4.19
1895201	490885	7151041	M Linley	2019-07-25	1	10	30	50	B/C	RD	4.5	WHI19000298	1.2	6.7	296.7	214	251	2	74	38	5575	17.8	8.4
1895202	490889	7150994	M Linley	2019-07-25	10	50	30	5	C	RD	3	WHI19000298	2.2	14.2	363.9	571	128.3	4.5	60.9	21	3460	55.9	8.94
1895203	490888	7150946	M Linley	2019-07-25	2	20	40	5	C	OR RD	4	WHI19000298	1.4	8.2	285.2	409	70.8	9.4	66	23.1	2664	34.8	8.06
1895204	490867	7150886	M Linley	2019-07-25	2	10	45	5	C	RD	4.5	WHI19000298	5.5	9.9	1116.7	2201	137.8	18.1	115.2	81.7	8994	60.1	15.8
1895205	490798	7150853	M Linley	2019-07-25	3	10	50	2	C	RD	5	WHI19000298	8.9	15	2147.6	9160	174.1	27.6	98.4	48.9	7001	55.6	12.64
1895206	490757	7150827	M Linley	2019-07-25	2	5	45	2	C	RD BR	5	WHI19000298	3	4.8	1000.3	660	150.1	17.9	88.2	48	5192	37.9	11.13
1895207	490700	7150809	M Linley	2019-07-25	2	5	50	2	C	RD	5	WHI19000298	2.3	2.7	626.4	1133	222.5	13.5	140.6	48	2507	65.3	8.74
1895208	490669	7150795	M Linley	2019-07-25	3	2	50	2	C	RD BR	5	WHI19000298	3.7	7.7	881.7	1846	341.4	16.1	151.1	66.3	1991	161.5	10.72
1895209	490607	7150800	M Linley	2019-07-25	5	2	50	2	C	OR	5	WHI19000298	31.7	72.1	8313.5	562	110.2	67.4	61.6	25.9	385	373.7	12.52
1895210	490606	7150737	M Linley	2019-07-25	2	2	45	2	C	RD BR	5	WHI19000298	1.4	14.3	657.2	1160	172.4	12.3	132.7	38.9	1304	277.6	6.87
1895211	490587	7150712	M Linley	2019-07-25	2	2	50	2	C	BR	5	WHI19000298	0.5	33	52.7	113	356.3	5.4	103.7	117.3	1315	245.1	8.42
1895212	490541	7150678	M Linley	2019-07-25	2	2	45	2	C	RD	5	WHI19000298	1.9	5.7	2893.9	1632	340.2	1.9	120.4	144.1	3476	45.5	10.64
1895213	490484	7150660	M Linley	2019-07-25	2	5	45	2	C	BR	5	WHI19000298	2.2	9.2	1137.5	592	333.8	57.2	197.8	36.4	2094	78.9	7.12
1895214	490495	7150662	M Linley	2019-07-25	0	10	45	2	C	GY	4	WHI19000298	2.6	7.4	1015	1066	186.4	41.4	212.4	45.8	3061	56.5	5.9
1895215	490475	7150650	M Linley	2019-07-25	2	10	45	5	C	BR	4	WHI19000298	1.4	4.4	563.8	632	59.8	18.7	80.5	17	774	37.3	4.06
1895216	490452	7150652	M Linley	2019-07-25	5	2	45	2	C	BR	4.5	WHI19000298	1	8.5	602.2	492	187.1	27.4	75.2	11.9	492	53.6	4.92
1895217	490441	7150635	M Linley	2019-07-25	2	5	50	2	C	BR	5	WHI19000298	2.7	18	964.2	1650	386.9	26.5	210.4	37.4	1790	73.5	7.74
1895218	490425	7150636	M Linley	2019-07-25	2	10	50	2	C	BR	4	WHI19000298	1.6	17.4	347	654	364	30.7	74.9	32	1478	71.3	10.23
1895219	490396	7150645	M Linley	2019-07-25	2	10	50	2	C	rd or	5	WHI19000298	1.9	19	628.9	2328	671.8	14.6	303.3	46.9	4923	49.5	12.7
1895220	490347	7150664	M Linley	2019-07-25	0	5	50	2	C	BR	5	WHI19000298	7	23.4	6218.4	3771	252.3	43.8	196.4	107.3	4083	130.5	9.33
1895221	490312	7150673	M Linley	2019-07-25	2	10	50	2	C	BR dRD	5	WHI19000298	2.6	5.2	782.9	711	39	34.1	184.9	45.3	10000	258.6	15.5
1895222	490276	7150688	M Linley	2019-07-25	0	5	45	2	C	RD BR	5	WHI19000298	3.2	11.8	749	2226	47.8	32.7	100.3	57.3	7376	80.7	10.35
1895223	490260	7150703	M Linley	2019-07-25	2	2	50	2	C	BR dRD	5	WHI19000298	1.4	5.4	133.2	211	18.4	10.2	68.4	67.1	10000	40.9	11.52

Sample ID	UTM_East	UTM_North	Sampler	Date Sampled	Org %	Frag %	Slope	Depth cm	Horizon	Colour	Quality	Certificate	Ag_ppm	Au_ppb	Pb_ppm	Zn_ppm	Cu_ppm	Mo_ppm	Ni_ppm	Co_ppm	Mn_ppm	As_ppm	Fe_pct
1895224	490250	7150714	M Linley	2019-07-25	2	2	35	2	C	BR dRD	5	WHI19000298	0.2	2.8	40.2	124	16.1	1.8	37	26.7	10000	14.1	10.13
1895225	490239	7150727	M Linley	2019-07-25	0	5	35	2	C	dOR	5	WHI19000298	1.2	11.2	224.3	355	167.8	16.9	89	30.5	7790	60.8	13.26