2014 Assessment Report
for the
Carmacks Copper Project

Whitehorse Mining District
Yukon Territory
NTS 115I/07
Latitude: 62° 21'
Longitude: 136° 41'

Quartz Claims:

Claim	Grant #
BOY 20	Y 51118
BOY 51	Y 51149
BOY 52	Y 51150
BOY 53	Y 51151
BOY 54	Y 51152
BOY 83	Y 51181
WAR 22	Y 59373
DUN 1	Y 59382
W 1 - 37	YB26708 - 44
W 41 - 43	YB26748 - 50
WAR 23 - 31	YB36240 - 48
W 50 - 53	YB36249 - 52
W 55	YB36254
W 57	YB36256
WAR 32 - 37	YB36446 - 51
WAR 38 - 50	YB36765 - 77
X 3 - 4	YB36898 - 99
W 91 - 93	YB36929 - 31

Claim	Grant #
W 95	YB36933
X 5 - 7	YB36962 - 64
VW 11	YB96620
VW 13	YB96622
VW 17 - 21	YB96626 - 30
VW 23	YB96632
VW 25	YB96634
VW 27 - 38	YB96636 - 47
VW 40 - 50, 60, 61	YB96986 - 98
TT 1	YB97068
TT 2	YB97251
REM 1 - 14	YC39221 - 34
REM 19 - 30	YC39239 - 50
REM 32 - 35	YC39251 - 54
WCC 1 - 40	YC60381 - 420
GAP 1 - 5	YC65320 - 24
HIP 1 - 27	YC65554 - 80
JIM 1 - 30	YC66844 - 73

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SUMMARY

Copper North Mining Corp. conducted an exploration program on the Carmacks Copper Property in the August and September of 2014. The program consisted of trenching, soil sampling, prospecting, IP geophysical surveying and diamond drilling.

The Property is located on Williams Creek, 192 km north of Whitehorse, or 38 km northwest of Carmacks, Yukon. It is accessible by vehicle via the Freegold Road and the Carmacks Copper access road. The property consists of 259 Quartz Claims and 20 Mining Leases owned 100% by Carmacks Copper Ltd., a 100% owned subsidiary of Copper North Mining Corp.

The exploration history of the region dates back to the Klondike Gold Rush of 1898, when placer miners traveling the Yukon River started prospecting along the route. Between 1969 and 2008 a number of companies and partnerships were involved in large exploration programs, and an extensive array of metallurgical test work, engineering and environmental studies were completed on the property. Sixteen zones containing copper mineralization known on or in the immediate vicinity of the property had been identified during that time, of which the No. 1, 4, 7 and 7A Zones are the most advanced.

The property hosts copper oxide mineralization in large meta-volcanic xenoliths that have been consumed by granodiorite of the Granite Mountain Batholith. In 2014, the company calculated a NI43-101 compliant resource estimate in the combined measured plus indicated categories for the No. 1, 4, 7 and 7A zones of 11.98 million tonnes grading 0.86% oxide copper, 0.456 g/t gold and 4.578 g/t silver. The deposit contains an additional 4.34 million tonnes of sulphide resources in the combined measured plus indicated categories grading 0.73% sulphide copper 0.221 g/t gold, and 2.3694 g/t silver. The mineral resources were reported at 0.25% total copper cut-off grade.

The 2014 exploration program was primarily focused on the Zone 2 area and was successful in tracing copper oxide mineralization over a strike length of 500 m and to a vertical depth of 72 m below surface. The Zone varies in true width from a maximum of 15 m at surface in trench 14TR-22, to an estimated true width of 5 m on the drill section for holes CN14-09 and 10. The weighted average of drill intercepts in Zone 2 returns 0.081 g/t gold and 0.31% copper oxide.

Five drill holes were also completes in the GAP Zone, which occurs between Zones 1, 4, 7,7A and the 2000S Zone. These holes had limited success identifying addition copper mineralization. However, drill hole CN14-11 returned 15.69 m grading 0.220 g/t gold and 0.57% Cu oxide at the north end of the 2000S Zone. The other holes drilled in the GAP Zone tested weak IP chargeability anomalies which were found to be caused by magnetite mineralization.

Recommendations for future work on the property are to continue to evaluate Zone 2; to test the GAP Zone to determine if there is any connection between the 2000S Zone and the south end of Zones 1, 4, 7 and 7A; to evaluate the north end of Zone 1 to determine if there

is a fault offset of the mineralization northwards; and to infill drill in the central part of Zone 1 and the northern portions of Zone 7 and 7A. It is expected that this infill drilling in areas that have not been sufficiently drilled will be able to convert material that is presently classified as waste into ore. This work will involve a combination of ground magnetic surveying, trenching and diamond drilling. The estimated budget for this program is $1,000,000 to $2,000,000 depending on the success of the infill drilling.

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1.0 INTRODUCTION

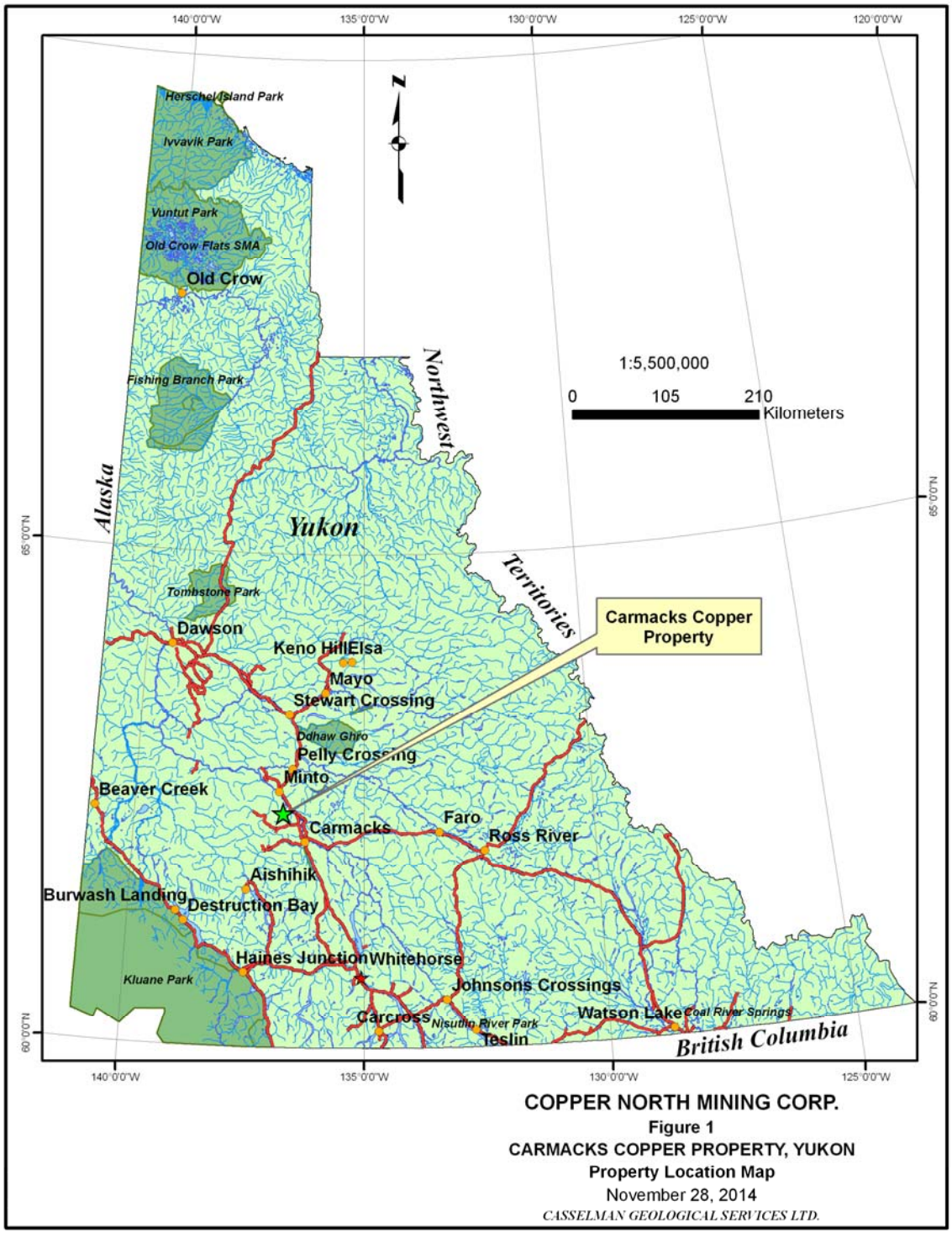
Copper North Mining Corp. conducted an exploration program on the Carmacks Copper Property in August and September of 2014. The program consisted of trenching, soil sampling, IP geophysical surveying and diamond drilling. This report documents the work program on the Quartz Claims for claim assessment purposes.

The exploration program was managed by the author, Scott Casselman, of Casselman Geological Services Ltd of Whitehorse, Yukon; heavy equipment services and diamond drilling were provided by Kluane Drilling Ltd of Whitehorse; the IP geophysical survey was conducted by Aurora Geosciences Ltd of Whitehorse; and geochemical analyses were conducted at ALS Ltd of Vancouver, BC with check analyses by Acme Analytical Labs, also from Vancouver. The field program commenced on August 9 and was completed on September 18, 2014.

2.0 LOCATION AND ACCESS

The Carmacks Copper Property is located in the Dawson Range Mountains on NTS map sheet 115I07, with the property centered at latitude 62°21'N and longitude 136°41'W, some 192 km north of Whitehorse, Yukon, as shown on Figure 1. The project site is located on Williams Creek, 8 km west of the Yukon River and some 38 km northwest of the town of Carmacks. Carmacks is 175 km by paved road north of Whitehorse, which is 180 km north of the year-round port at Skagway, Alaska.

The project site is currently accessible by way of the Freegold Road that leads northwest of Carmacks for 34 km then by the Carmacks Copper access road for 13 km to the centre of the property. The property access road is narrow and rough with steep sections and requires 4x4 capabilities in inclement weather conditions. The Freegold Road is maintained by the territorial government and is currently open seasonally, generally from April through September. A new 13 km access road is proposed to be constructed as a part of the project development; brush clearing in preparation for this has occurred.


140°0'0"W
135°0'0"W
130°0'0"W
125°0'0"W
120°0'0"W
65°0'0"N
60°0'0"N
N
Herschel Island Park
Ivvavik Park
Vuntut Park
Old Crow Flats SMA
Old Crow
Fishing Branch Park
Tombstone Park
Dawson
Keno Hill
Elsa
Mayo
Stewart Crossing
Odhaw Ghro
Pelly Crossing
Minto
Beaver Creek
Carmacks
Faro
Ross River
Aishihik
Burwash Landing
Destruction Bay
Haines Junction
Whitehorse
Kluane Park
Carcross
Nisutlin River Park
Teslin
Johnsons Crossings
Watson Lake
Coal River Springs
Alaska
Yukon
Northwest
Territories
British Columbia
Carmacks Copper Property
1:5,500,000
0 105 210
Kilometers
COPPER NORTH MINING CORP.
Figure 1
CARMACKS COPPER PROPERTY, YUKON
Property Location Map
November 28, 2014
CASSELMAN GEOLOGICAL SERVICES LTD.

3.0 CLAIM INFORMATION

The Carmacks Copper Property is in the Whitehorse Mining District and consists of 259 Quartz Claims and 20 Mining Leases acquired in accordance with the Yukon Quartz Mining Act. The claims are register in the name of, and owned 100% by Carmacks Copper Ltd., a 100% owned subsidiary of Copper North Mining Corp. The claim location map is included in Figure 2. A list of lease information is included in Table 1 and claim information in Table 2.

The claim information has been verified with the Yukon Mining Recorder NMRS database, current to November 25, 2014, which states that the expiry dates listed are valid and that all the claims and leases are in good standing (www.yukonminingrecorder.ca).

Archer, Cathro & Associates (1981) Limited, at the election of Copper North retain a 3.0% NSR royalty to a maximum of $2.5 million. Annual advanced royalty payments of $100,000 are made whenever the average annual price of copper is above US$1.10/pound.

The property is located on Crown Land and the surface rights are unencumbered. Immediately west of the property is First Nations Class A Land Reserve LSC R-9A belonging to the Little Salmon Carmacks First Nation. On Class A land, surface and mineral rights are reserved for the First Nation.

In 1972, the leases on the property were surveyed as per one of the requirements of obtaining a lease. In 2007, the majority of the claims in the center part of the claim block, covering the No. 1, 4, 7, 7A, 12, 13, and 14 zones were legally surveyed. The southern claims (VW, TT, X and JIM) and eastern claims (REM and HIP) have not been legally surveyed.

Table 1. Quartz Lease Status

Claim Name and No.	Grant No.	Expiry Date	Registered Owner	% Owned	Quartz Lease
AC # 2-3	Y91722–Y91723	2019/10/28	Carmacks Copper Ltd.	100	OW00070-71
BOY 22	Y51120	2019/10/28	Carmacks Copper Ltd.	100	OW00061
BOY 24	Y51122	2019/10/28	Carmacks Copper Ltd.	100	OW00062
BOY 55–58	Y51153–Y51156	2019/10/28	Carmacks Copper Ltd.	100	OW00063-66
BOY 85	Y51183	2019/10/28	Carmacks Copper Ltd.	100	OW00067
DUN 2-3	Y59383–Y59384	2019/10/28	Carmacks Copper Ltd.	100	OW00068-69
W 38-40	YB26745-YB26747	2019/10/28	Carmacks Copper Ltd.	100	OW00072-74
W 44-48	YB26751-YB26755	2019/10/28	Carmacks Copper Ltd.	100	OW00075-79
W 49	YB26756	2025/03/09	Carmacks Copper Ltd.	100	OW00080

Table 2. Quartz Claim Status

Claim Name and No.	Grant No.	Expiry Date	Registered Owner	% Owned
BOY 20	Y51118	2012/03/09	Carmacks Copper Ltd.	100
BOY 51, 53	Y51149, Y51151	2012/03/09	Carmacks Copper Ltd.	100
BOY 52, 54	Y51150, Y51152	2014/03/09	Carmacks Copper Ltd.	100
BOY 83	Y51181	2012/03/09	Carmacks Copper Ltd.	100
DUN 1	Y59382	2012/03/09	Carmacks Copper Ltd.	100
TT 1	YB97068	2015/03/09	Carmacks Copper Ltd.	100
TT 2	YB97251	2012/03/09	Carmacks Copper Ltd.	100
VW 11, 13	YB96620, YB 96622	2012/03/09	Carmacks Copper Ltd.	100
VW 17-18	YB96626-YB6627	2015/03/09	Carmacks Copper Ltd.	100
VW 19–21	YB96628–YB96630	2016/03/09	Carmacks Copper Ltd.	100
VW 23, 25	YB96632, YB6634	2015/03/09	Carmacks Copper Ltd.	100
VW 27–38	YB96636-YB96647	2015/03/09	Carmacks Copper Ltd.	100
VW 40-50	YB96986-YB96996	2012/03/09	Carmacks Copper Ltd.	100
VW 60-61	YB96997-YB96998	2015/03/09	Carmacks Copper Ltd.	100
REM 1-14	YC39221-YC39234	2012/04/11	Carmacks Copper Ltd.	100
REM 19-30	YC39239-YC39250	2012/04/11	Carmacks Copper Ltd.	100
REM 32-35	YC39251-YC39254	2012/04/11	Carmacks Copper Ltd.	100
W 1-6	YB26708-YB26713	2012/03/09	Carmacks Copper Ltd.	100
W 7-10	YB26714-YB26717	2015/03/09	Carmacks Copper Ltd.	100
W 11,13,15,17,19,20	YB26718,20,22,24,26,27	2012/03/09	Carmacks Copper Ltd.	100
W 12,14,16,18	YB26719,21,23,25	2013/03/09	Carmacks Copper Ltd.	100
W 21-24	YB26728-YB26731	2015/03/09	Carmacks Copper Ltd.	100
W 25-28	YB26732-YB26735	2013/03/09	Carmacks Copper Ltd.	100
W 29-30	YB26736-YB26737	2012/03/09	Carmacks Copper Ltd.	100
W 31-37	YB26738-YB26744	2015/03/09	Carmacks Copper Ltd.	100
W 41-43	YB26748-YB26750	2013/03/09	Carmacks Copper Ltd.	100
W 50-53	YB36249-YB36252	2015/03/09	Carmacks Copper Ltd.	100
W 55 ,W 57	YB36254, YB36256	2013/03/09	Carmacks Copper Ltd.	100
W 91-93	YB36929-YB36931	2015/03/09	Carmacks Copper Ltd.	100
W 95	YB36933	2015/03/09	Carmacks Copper Ltd.	100
X 3-4	YB36898, 899	2015/03/09	Carmacks Copper Ltd.	100
X 5-7	YB36962-YB36964	2015/03/09	Carmacks Copper Ltd.	100
WAR 22	Y59373	2016/03/09	Carmacks Copper Ltd.	100
WAR 23-29	YB36240-YB36246	2015/03/09	Carmacks Copper Ltd.	100
WAR 30-31	YB36247-YB36248	2012/03/09	Carmacks Copper Ltd.	100
WAR 32-37	YB36446-YB36451	2015/03/09	Carmacks Copper Ltd.	100
WAR 38-44	YB36765-YB36771	2015/03/09	Carmacks Copper Ltd.	100
WAR 45	YB36772	2012/03/09	Carmacks Copper Ltd.	100
WAR 46	YB36773	2015/03/09	Carmacks Copper Ltd.	100
WAR 47-50	YB36774-YB36777	2012/03/09	Carmacks Copper Ltd.	100
WCC 1-40	YC60381-YC60420	2013/05/10	Carmacks Copper Ltd.	100
GAP 1-5	YC65320-YC65324	2013/03/09	Carmacks Copper Ltd.	100
HIP 1-12	YC65554-YC65565	2013/03/09	Carmacks Copper Ltd.	100
HIP 13, 14	YC65566-YC65567	2012/14/08	Carmacks Copper Ltd.	100
HIP 15-27	YC65568-YC65580	2013/03/09	Carmacks Copper Ltd.	100
JIM 1-30	YC66844-YC66873	2012/03/09	Carmacks Copper Ltd.	100

4.0 PHYSIOGRAPHY AND CLIMATE

The property is located in the Dawson Range Mountains. Topography in the area is subdued. Topographic relief for the entire property is 515 metres (m). In the immediate area of the No. 1 Zone, topographic relief is 230 m. Elevations range from 485 m at the Yukon River to 1,000 m on the western edge of the claim block.

North facing slopes are generally underlain by permafrost and are generally swampy or boggy with much less tree growth and thick sphagnum moss cover. South facing slopes are generally drier and, in some locations, are free of permafrost. The hills are covered by black spruce, white spruce, pine, poplar, birch and alder.

Outcrop is uncommon, mainly due of the subdued topography and glacial cover in the valley bottoms. The major portion of the claim block lying north of Williams Creek was unglaciated in the most recent glacial periods, above the 760 m elevation. Overburden is generally thin; a few centimetres of moss and organic material overlie 5 to 20 cm of white felsic volcanic ash (White River ash, approximately 1,250 years old). In these unglaciated areas, the white ash is underlain by up to 10 cm of organics or peat and 15 to 50 cm of soil. The top few metres of bedrock is generally extensively weathered.

The climate in the Carmacks area is marked by warm summers and cold winters. Mean daily temperatures range from -30°C in January to 12°C in July. Precipitation is light with moderate snowfall, the heaviest precipitation being in the summer months with July being the wettest month. The average annual precipitation is approximately 375 millimetres with one third falling as snow. Mean annual evaporation is approximately 404 mm to yield a net loss of 29 mm. Maximum evaporation occurs in July.

The weather in Yukon does not impede year round commercial operations, including outdoor activities in the winter, except in the harshest cold snaps when temperatures may plummet to -50°C. Winter conditions may be considered to extend over the period where daytime maximum temperatures average below zero; from November through March. The extreme cold temperatures in the region make outside construction in the winter difficult. In general, the outdoor construction season is most feasible from April through October. The latitude at which the property occurs provides 22 hours of daylight in late June but similarly long nights in late December.

5.0 PROPERTY HISTORY

The exploration history of the region dates back to the Klondike Gold Rush of 1898, when placer miners traveling the Yukon River started prospecting along the route. The earliest exploration work in the area was directed to the few outcrops in the Williams Creek, Merrice Creek, Nancy Lee Creek and Hoochekoo Creek canyons. The first claims staked in the region were staked west of the Yukon River on Nancy Lee Creek, where a number of small adits and workings targeted vein copper mineralization. A few tons of copper ore were shipped to the Granby Smelter in 1917. These claims are now Crown Grants.

In 1969, the Casino Porphyry Deposit was discovered, which prompted a staking rush in the region. In March of 1970, the Boy Claims (134 units) were staked by Whitehorse businessmen, G. Wing and A. Arsenault. The property was optioned to the Dawson Range Joint Venture (DRJV), later that year. The DRJV consisted of Straus Exploration Inc., Great Plains Development of Canada Ltd., Trojan Consolidated Minerals Ltd. and Molybdenum Corporation of America.

The DRJV conducted a program of prospecting and geochemical sampling in the summer of 1970 and discovered two outcrops with copper oxide mineralization; the No. 1 and No. 2 zones. The discovery prompted the staking of a further 185 claims, some trenching and drilling of two x-ray diamond drill holes in the No. 1 Zone for a total of 103 feet (31.4 m).

In 1971, the DRJV conducted a program consisting of 24.5 km of road building, bulldozer trenching, 108 line-km of grid geochemistry, 27 line-km of VLF-EM geophysical surveying, 48 km of line-cutting, geological mapping, an airphoto survey and 5,583 m of diamond drilling in 25 holes in five separate zones (Zones 1, 2, 3, 5 and 6). Highlights of this program included drill indicated reserves in the No. 1 Zone of 16,334,000 tons grading 1.15% copper at a 0.6% copper cut-off (this reserve figure is not NI43-101 compliant). The program also identified copper oxide mineralization in the No. 3 and No. 4 zones.

In 1972, the DRJV conducted a program consisting of an additional 2.1 km of road construction, bulldozer trenching, 31 km of line cutting, 150 line-km of soil sampling, and 1,531 m of diamond drilling in 8 holes in the No.1, No 4, and No. 8 zones. A recommendation for additional drilling in the No. 3, No. 12 and No. 13 zones was made following the exploration program. However, the mining industry went into a slump and no further work was performed for 17 years.

In 1982, the DRJV returned its' interest in the property to Archer, Cathro & Associates, which later sold the property to Archer, Cathro & Associates (1981) Ltd. In 1989, Archer, Cathro optioned the property to Western Copper Holdings Ltd. and Thermal Exploration Company. Western Copper and Thermal conducted metallurgical test work later that year.

In 1990, Western Copper and Thermal upgraded the access road to the property and drilled 322 m in three holes in Zone 1. Each of the 3 holes intersected copper oxide mineralization. The following year the companies conducted a program consisting of 3,464 m of diamond drilling in 36 holes; 35 in Zone 1 and 1 in Zone 4. They also excavated 1,856 linear-m in 22 trenches in zones 1 and 4, surveyed 83.2 line-km of ground magnetic and

VLF-EM geophysics, and initiated baseline environmental studies. The program was successful in delineating and expanding the area of mineralization in Zone 1 and identifying additional copper oxide mineralization in Zone 4. The geophysical surveys also identified a number of magnetic anomalies on the property similar to the magnetic lows occurring in Zone 1 and identified a number of VLF-EM conductors worthy of follow-up.

In 1992, Western Copper and Thermal drilled 1,164 m in 11 holes in zones 1, 4, 12 and 13 and drilled 856 m in 11 Reverse Circulation holes at various locations on the property. The diamond drilling in Zone 4 encountered some copper oxide mineralization, but, unlike Zone 1, it was very disrupted by faulting and difficult to trace. The program also identified copper mineralization in gneissic rocks in zones 12 and 13 that was similar to Zone 1, but contained more sulphide minerals and less oxide minerals. The Reverse Circulation drilling identified a new zone, the 2000S zone, where hole RC-92-01 encountered 0.62% oxide Cu over 12.2 m and hole RC-92-10 encountered 0.47% oxide Cu over 12.2 m. The companies also conducted additional metallurgical test work, baseline environmental testing and a biophysical assessment. Knight Piesold Ltd was contracted to conduct geotechnical studies consisting of test pit excavation, overburden sampling, oriented core diamond drilling and geologic mapping.

In 1994, the companies expanded the grid on the property and conducted additional magnetic and VLF-EM surveying, soil sampling and prospecting. A new area of copper mineralization was identified at the far northern part of the property, the 4000 Zone.

Also in 1994, Kilborn Engineering Pacific Ltd. was contracted to conduct a Feasibility Study. The study indicated that, based on the copper price at the time, the project was viable using open pit mining methods and solvent extraction-electowinning.

In 1995, the company contracted Knight and Piesold Ltd. to initiate a preliminary mine design and also initiated clearing and grubbing of a site access road and leach pad area. The company submitted a mine permit application later that year.

While the company was awaiting a mine permit, they contracted Kilborn Engineering to produce a basic engineering report, in 1997. The permit was not forthcoming and, due to changing market conditions the company withdrew the permit application. The property sat dormant until the re-initiation of permitting in 2005 and exploration in 2006. During this time the property was consolidated into a single company and it changed its' name to Western Silver Corporation.

In February, 2006 Western Silver Corporation was taken over by Glamis Gold and a new company, Western Copper Corporation, was formed. The Carmacks Copper Property was spun off to Western Copper as part of the arrangement.

In 2006, Western Copper resumed mineral exploration activities on the Carmacks Copper Project after it had lain dormant for 11 years. The company conducted and exploration program that consisted of 7,100 m of diamond drilling in 34 holes, 1,201 m of Rotary Air Blast drilling (RAB) in 61 holes, access road upgrade work, 9.2 km of line-cutting, re-initiation of environmental baseline studies, surveying of drill hole collars and claim posts

and re-initiation of the mine permitting process.

In 2007, the company conducted an exploration program that consisted of 17,830 m of diamond drilling in 122 holes, 942 m of overburden geotechnical drilling, in 33 holes, and one 55 m hydrogeological monitoring hole. As well, the company conducted access road upgrade work, 22.1 km of line-cutting, 49.3 km of Induced Polarization surveys, prospecting in the Zone 2 area and continued baseline environmental studies.

In 2008, the company conducted additional geotechnical investigations in preparation for development. In April 2009, Western Copper received a Quartz Mining License for the project. On May 10, 2010 the company was notified that the Water License had been denied with a list of deficiencies in the application and design process.

In 2011, Copper North Mining Corp. was spun out from Western Copper, with the Carmacks Copper Project being it's key asset.

The Carmacks deposit has been subject to some historical tonnage and grade estimations over the years as summarized in Table 3. The historic resources are presented here to show the progression of development of the resources over the years.

Table 3. Historical Tonnage & Grade Estimates of the Carmacks Copper Deposit

Year	Source	Tonnes	Cu ox. %	Cu total %	Au g/t	Comments
1991	MPH Consulting Ltd.(No. 1 Zone)	13,212,743	0.90	1.05	-	Conventional by section 76% proven, 13% probable
1991	MPH Consulting Ltd.(No. 1 Zone)	13,212,743	0.88	1.00	-	IDS block model 78% proven, 10% probable
1993	Western Copper Audited by Kilborn	11,779,104	0.911	1.195	0.500	Measured and indicated at cutoff of 0.8% total copper
1993	Western Copper Audited by Kilborn	14,394,427	0.829	1.096	0.438	Measured and indicated at cutoff of 0.5% total copper
1993	Western Copper Audited by Kilborn	17,293,109	0.725	0.972	0.406	Measured and indicated at cutoff of 0.01% total copper
1997	Western est. Audit by Kilborn/SNC	12,065,557	-	0.97	-	Cutoff grade 0.29% total Cu Mine use 4.6:1 strip ratio
2007	Wardrop (No. 1, 4 and 7 Zones)	10,372,000	0.96	1.13	0.519	Oxide Resource, Measured and indicated at cutoff of 0.25% total copper
2014	Copper North PEA (No. 1, 4 and 7 Zones)	11,980,000	0.86	1.07	0.456	Oxide Resource, Measured and indicated at cutoff of 0.25% total copper

The mineral resource calculations prior to the 2007 calculation presented in Table 3 have not been classified in accordance with the CIM approved standards as required in NI43-101. These estimates have been obtained from sources believed reliable and conform to disclosure standards in use at the time of their publication, but have not all been

independently verified. The 2007 and 2014 calculations were completed according to CIM approved standards and are NI43-101 compliant.

In addition, the deposit also contains an NI43-101 copper sulphide resource consisting of 4.34M tonnes grading 0.73% sulphide copper, 0.221 g/t gold and 2.369 g/t silver.

6.0 GEOLOGY

6.1 REGIONAL GEOLOGY

The regional geology map and descriptions were modified from Gordey and Makepeace, 1999. The base map is provided digitally by the Yukon Geological Survey. The Carmacks region lies within the Intermontane Belt, which in the Carmacks map-area is divisible into the Yukon Cataclastic Terrane, Yukon Crystalline Terrane and Whitehorse Trough.

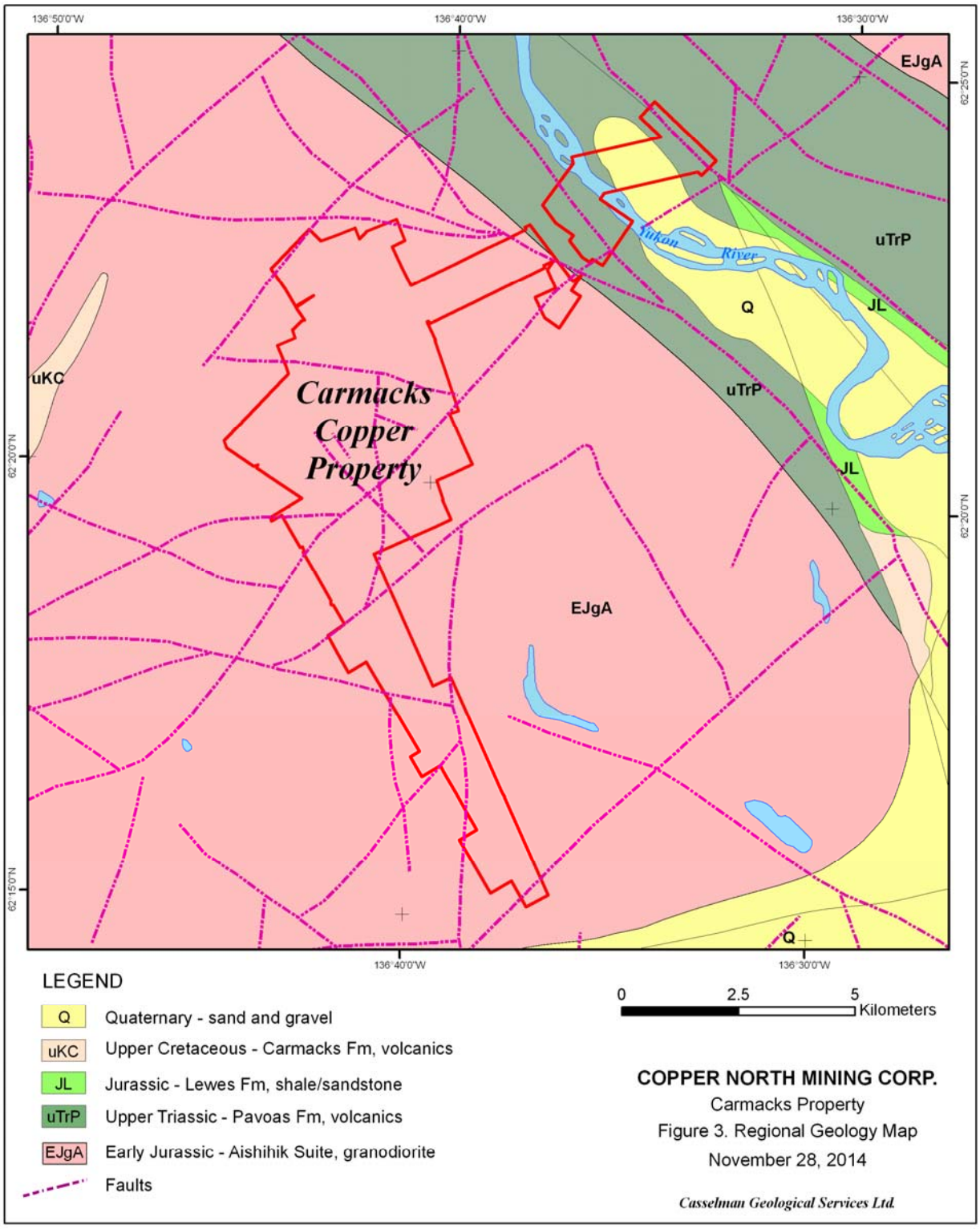
The Whitehorse Trough lies to the east of the Hoochekoo Fault, in the Yukon River Valley. The Whitehorse Trough comprises Upper Triassic intermediate to basic volcanics capped by carbonate reefs (Povoas Formation) and Lower Jurassic greywacke, shale and conglomerate (Lewes Formation), derived from the underlying Upper Triassic granitic rocks.

The Yukon Cataclastic Terrane includes hornblende-biotite-chlorite gneiss with interfoliated biotite granite gneiss, Permian Selwyn Gneiss, intruded by Early Jurassic Aishihik Suite Granite Mountain Batholith. Weakly foliated, mesocratic, biotite-hornblende, Granite Mountain granodiorite contains screens or pendants of strongly foliated feldspar-biotite-hornblende-quartz gneisses that host the Carmacks Copper deposit.

Younger plutonic rocks intrude all three divisions of the Intermontane Belt and the contacts between them. Carmacks Group and Mount Nansen volcanic rocks overlie portions of all older rocks, suggesting that they should not be classified in the Yukon Crystalline Terrane, but are younger rocks that obscure relationships between the older terrane rocks. Tempelman-Kluit (1985) had included the Carmacks Group in the Yukon Crystalline Terrane.

Mesozoic strata of the Whitehorse Trough are only exposed in fault contact with the Yukon Crystalline Terrane and Yukon Cataclastic Terrane, but may rest depositionally on them or certain of their strata. The relationship between the Yukon Crystalline Terrane and Yukon Cataclastic Terrane is unknown.

The predominant northwest structural trend is represented by the major Hoochekoo, Tatchun and Teslin faults to the east of the Carmacks Copper Project and the Big Creek Fault to the west. East to northeast younger faulting is represented by the major Miller Fault to the south of the Carmacks Copper Project.


136°50'0"W
136°40'0"W
136°30'0"W
62°25'0"N
62°20'0"N
62°15'0"N
EJgA
uTrP
Yukon River
Q
JL
uKC
Carmacks Copper Property
uTrP
JL
EJgA
Q
LEGEND
Q Quaternary - sand and gravel
uKC Upper Cretaceous - Carmacks Fm, volcanics
JL Jurassic - Lewes Fm, shale/sandstone
uTrP Upper Triassic - Pavoas Fm, volcanics
EJgA Early Jurassic - Aishihik Suite, granodiorite
Faults
0 2.5 5
Kilometers
COPPER NORTH MINING CORP.
Carmacks Property
Figure 3. Regional Geology Map
November 28, 2014
Casselman Geological Services Ltd.

6.2 PROPERTY BEDROCK GEOLOGY

The Carmacks Copper Property lies predominantly within the Yukon Cataclastic Terrane. The deposit is hosted by variably metamorphosed volcanic to volcano-sedimentary rocks that form roof pendants and large xenoliths within Jurassic hornblende-biotite granodiorite of the Granite Mountain Batholith (Aishihik Suite, Figure 4).

The host rocks generally lack or have very low quartz content and high mafic content. An andesitic to basaltic pyroclastic volcanic, probably tuffaceous, agglomerate or breccia precursor rock is considered the most likely source. In some locations, where the degree of metamorphism is low, arkosic sediments, believed to be derived from a basic volcanic or plutonic regime, are observed intermixed with the volcaniclastic rocks. The host rocks are believed to have originated from the upper Triassic Povoas Formation and have been consumed by later intrusions of the Granite Mountain Batholith. The host rocks vary from relatively unmetamorphosed; to slightly metamorphosed; to amphibolites gneiss; to completely re-crystallized hornblendite.

The Granite Mountain granodiorite is generally massive in appearance, medium to coarse grained to mega-crystic porphyritic. It occasionally develops a weak foliation near contacts with the meta-volcanic / gneiss units, where the flow has been restricted by the xenoliths. The granodiorite has been separated into five divisions; four based on quartz, biotite, hornblende and K-feldspar contents and a fifth based on assimilated gneiss.

Post mineralization aplite and pegmatite dykes are common. They range in thickness from a few centimetres up to three metres. Quartz veins are uncommon and average two to ten centimetres in thickness. Thin mafic dykes that were feeders for the later Carmacks Group volcanic are also uncommon. Secondary copper oxide mineralization is occasionally observed on fractures in the aplite and pegmatite dykes.

There are 16 identified zones containing copper mineralization known on or in the immediate vicinity of the property (Figure 4). All of the estimated resources are contained in the No. 1, No. 4, No. 7 and No. 7A zones which extend over a 800 m strike length and at least 450 m down dip. The deposit is open at depth and is oxidized to 250 meters depth. Copper-gold mineralization at Carmacks Copper is hosted primarily in the meta-volcanic rocks, although some copper oxide minerals have “bled out” into fractured zones in the adjacent granodiorite. In a few instances this “bleeding out” has occurred up to 50 m away from the meta-volcanic source.

The copper mineralization in the upper, oxidized, portion of the No.1 Zone consists of malachite>tenorite>azurite and lesser chalcopyrite, bornite, covelite and cuprite. The boundary between oxidized and un-oxidized mineralization is generally sharp and undulating at approximately 250 m vertically below surface. In the transition zone, chalcopyrite and bornite content increase. In the sulphide zone chalcopyrite is the dominant copper mineral. The deposit and encompassing granodiorite contains very little non-copper bearing sulphide minerals, including pyrite, which is estimate at less than 0.5%. Native copper is occasionally observed as dendritic fracture filling in the meta-volcanic and in the granodiorite.

The character of the deposit changes along strike leading to a division into northern and southern halves. The northern half is more regular in thickness, dip angle, width and down dip characteristics. The southern half splays into irregular intercalations, terminating against sub-parallel faults down dip. Both the north and south ends of the deposit are offset by cross-cutting faults. The No. 7, 7A and 4 zones are interpreted as separate rafts or pull-aparts of a larger raft of meta-volcanic that forms Zone 1. Although, it is possible they are fault offsets of the No. 1 Zone.

In the northern half of the No. 1 Zone, copper grades are higher in the footwall relative to the hanging wall. Oxide copper grades increase with depth in both the footwall and hanging wall. There is no association of copper values with rock type, mafic mineral content or grain size. Gold values are higher in the north half of the deposit. They average 0.75 g/t compared with 0.27 g/t in the south half. There is no apparent increase in values with depth and the highest grade gold values are not associated with the highest copper values; however, gold values in the northern half are higher in the footwall section. This lack of increase in gold values with depth suggests that the gold distribution reflects a primary distribution rather than a secondary distribution such as oxide copper values. As with oxide copper, gold content does not correlate with rock type, mafic constituents or grain size.

7.0 2014 EXPLORATION PROGRAM

The 2014 exploration program on the property consisted of line cutting, soil sampling, prospecting, Induced Polarization (IP) geophysical surveying, mechanized trenching and diamond drilling. The areas worked in 2014 are shown in Figure 5.

The line cutting was conducted in preparation of the IP geophysical surveying. A total of 4.75 km of line was cut; 2.6 km on 3 lines in Zone 2; and 2.15 km on 3 lines in the GAP Zone. The cutting was done with a chainsaw and brush cutter. Lines were nominally 1.5 m wide and wooden survey pickets with labelled metal tags established by straight chaining at 25 m intervals.

The soil sampling was conducted on the 3 cut lines in the Zone 2 area. The soil horizon on the property includes a thick, white, volcanic ash layer that dates from a volcanic event 1200 years ago and varies from a few centimeters to a meter or more in depth. The soil sampler had to ensure that samples were collected below this layer. Samples were collected with a mattock, generally at a depth of 0.2 to 0.5 m. Samples were placed in a labeled kraft, wet strength bag and dried on site, prior to shipping to the lab for analysis.

Prospecting was conducted in the Zone 2 and Zone 9 area following up on historic soil sample and magnetic anomalies. The area is characterized by minimal outcrop exposure and identifying the source of anomalies proved difficult.

The IP geophysical survey was conducted on the cut lines in Zone 2 and the Gap Zone from September 8 to 13, by Aurora Geosciences Ltd. The specifics of the survey are described in a Memo report prepared by Aurora crew chief, Andre Lebel, and included in Appendix V.

The report also includes sections and inversions.

The mechanized trenching was conducted with a Cat 320E Excavator provided by Kluane Drilling Ltd. In Zone 2, 29 trenches were excavated for a total length of 1,606 m. The depth of these trenches ranged from 0.5 to 3.0 m. In a few instances bedrock could not be reached due to permafrost, or excessive overburden depth making the trench unsafe. In Zone 14 and southern Zone 8 area 4 trenches were excavated for a total length of 480 m. At the completion of the program, all trenches were backfilled, the surface was scarified and woody debris scattered on the surface to promote rehabilitation.

The drill program was conducted with a skid mounted KD1000 drill provided by Kluane Drilling Ltd. In Zone 2, 10 holes were drilled for a total of 615.14 m and in the GAP Zone, 5 holes were drilled for a total of 466.95 m. The core size was NTW. Drill pads and access trails were constructed with a Cat D6N. At the completion of the program all material was removed from the drill sites and the drill site were left in a clean state.

8.0 GEOCHEMICAL ANALYTICAL PROCEDURE

The sample collection procedure for the drill core involved sawing the core in half and placing a representative half sample in a plastic sample bags appropriately labeled with the sample number. The other half of the core was placed back in the core box and each sample interval in the core box is marked with a sample tag. All remaining drill core is stored on site. All original samples were sent for analysis to the ALS Labs Ltd. in Whitehorse for sample preparation and the sample pulps to ALS in North Vancouver, B.C, for analysis. Duplicate samples were sent to Acme Labs in Whitehorse for sample preparation and the sample pulps to their Vancouver facility for analysis.

The ALS Labs sample preparation procedure for rock and drill core involved first crushing the sample to 70% < 2mm, from which a 250 gram split was then pulverized to 75 microns according to the PREP-31 lab procedure. The pulverized sample was then analyzed for 33 elements by four-acid digestion and Atomic Emission Spectrometry according to the ME-ICP61 analytical package and for gold by Fire Assay and Atomic Absorption finish according to the Au-AA23 analytical package. All samples were also assayed for total copper content by four acid digestion and atomic absorption finish according to the Cu-AA62 procedure and for weak acid soluble copper (ie. oxide copper or non-sulphide copper) by sulfuric acid digestion and atomic absorption finish according to the Cu-AA05 procedure. Geochemical Analytical Certificates are included in Appendix II, the geochemical results are included with the drill logs in Appendix IV and are plotted on drill sections.

The Acme labs preparation and analysis for the sample duplicates was similar to the ALS procedure. At Acme core samples were prepared by first crushing the sample to 70% <10 mesh, from which a 250 gram split was then pulverized according to the PRP70-250 lab procedure. The pulverized sample was then analyzed for 45 elements by multi-acid digestion and Atomic Emission Spectrometry according to the MA200 analytical package and for gold by Fire Assay and Atomic Absorption finish according to the FA430 analytical package. All samples were also assayed for total copper content by four acid digestion and atomic absorption finish according to the MA400 procedure and for weak acid soluble copper by sulfuric acid digestion and atomic absorption finish according to the LH402 procedure.

The soil samples were prepared by drying and screening to 180um to obtain a pulp. The pulp was then analyzed 53 elements by aqua regia digestion Atomic Emission Spectrometry according to the ME-MS41L analytical package. Samples which returned overlimits for copper were also assayed by the Cu-OG46 package.

9.0 SAMPLE SECURITY and QAQC PROCEDURE

The drill core, rock and soil samples were handled in a secure manner on site. Drill core was delivered to the core shack at the end of each drill shift, at which time it was under the supervision of the core logging geologist. Sample intervals were marked on the core boxes by the logging geologist, by way of affixing a sample ticket to the box, and on the core itself,

using a grease pencil. The sampled boxes awaited splitting in a room adjacent the logging room in and remained under the supervision of the logging geologist.

In the core-splitting room, the core was halved using a wet diamond-bladed tile saw. After splitting, one-half of the core with corresponding sample ticket was placed in a numbered sample bag, tied with zip straps, and placed in rice bags. The other half-core was placed back in the core box. Once the rice bags were full, the bags were again secured with zip straps, and awaited shipping. The samples were delivered directly to the Lab in Whitehorse by the project expediter.

During the program standards and core duplicates were assayed at regular intervals in order to check the security of the samples as well as the quality and accuracy of the laboratory analyses. Three sample standards were used; 2 copper-gold standards (AGL-1 and AGL-2); and one blank (AGL-3). These standards were prepared by CDN Resource Laboratories Ltd. of Delta, BC. Each of the sample standards were submitted regularly with the sample shipments at 50 sample intervals. The standards were analyzed along with the other samples by gold, copper, non-sulphide copper and multi-element ICP as described above. Seven of each of the Standards were submitted to ALS Labs during the course of the program. The content of the standards and results of these analyses are illustrated below:

AGL1

Tot. Copper: *1.713 ± 0.108 %*
Gold: *0.60 ± 0.080 g/t*
Acid Sol. Cu: *1.616 ± 0.160 %*

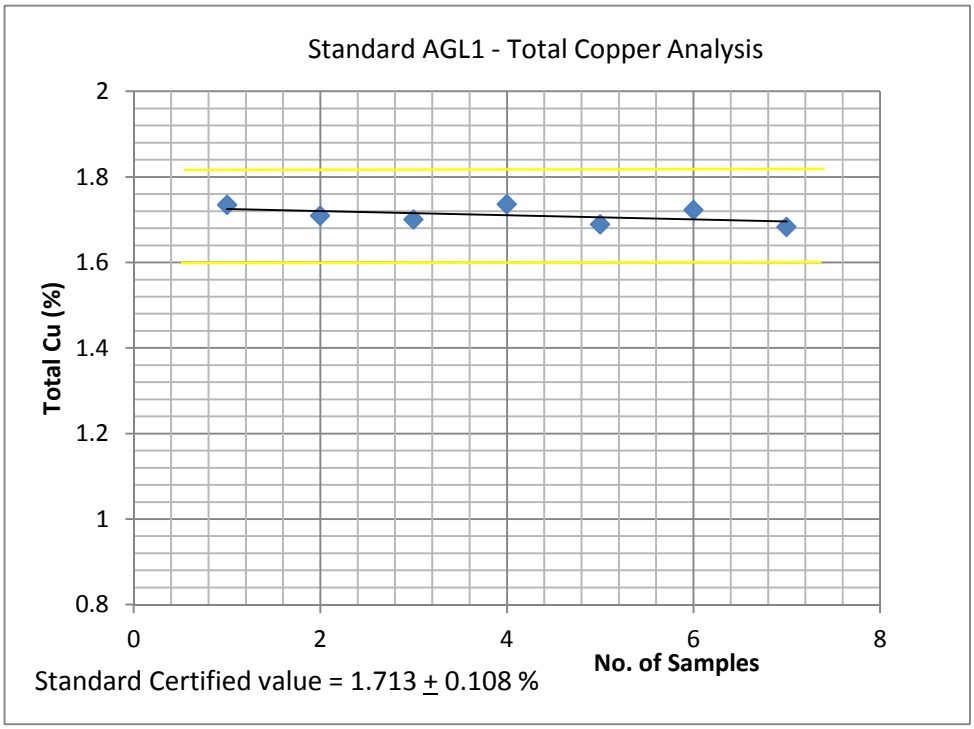


Figure 18. Standard AGL1 – Total Copper Analysis Results

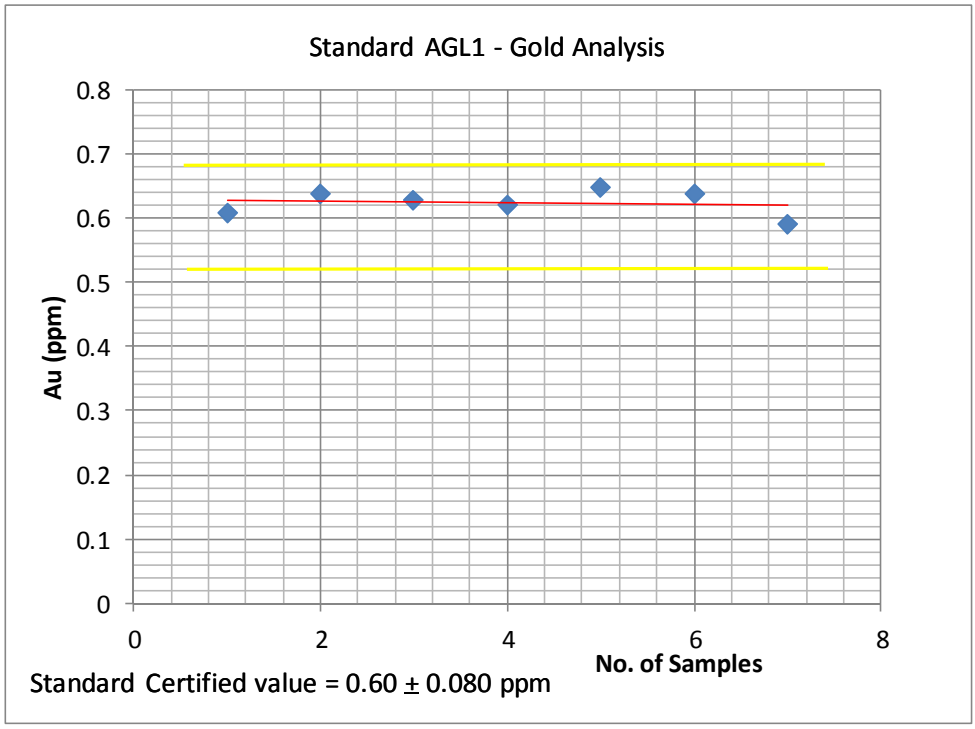


Figure 19. Standard AGL1 – Gold Analysis Results

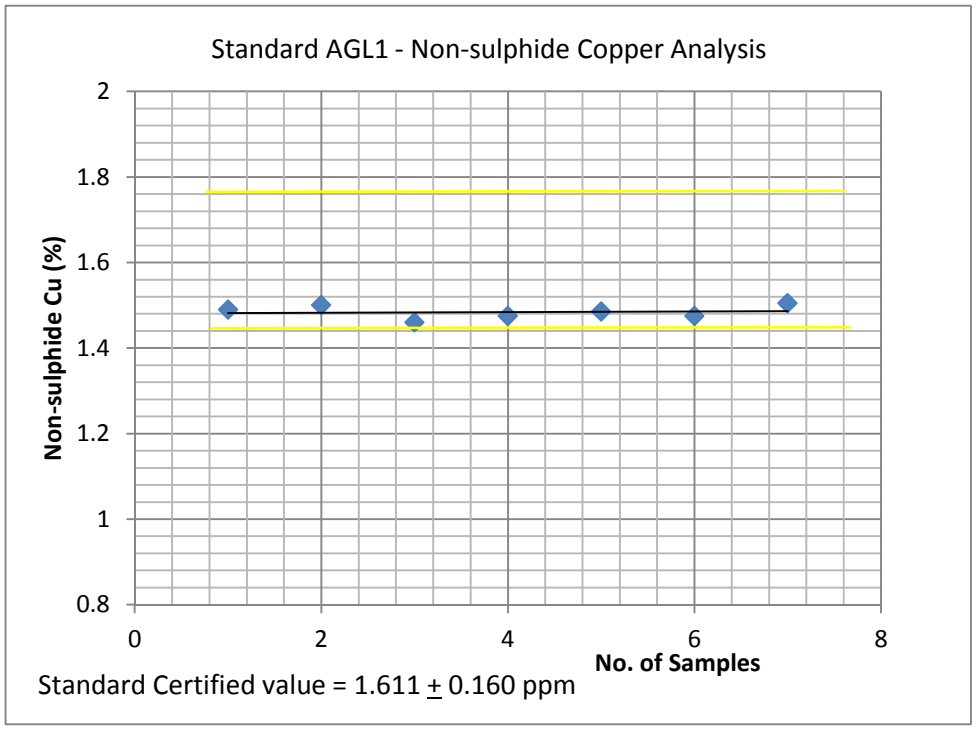


Figure 20. Standard AGL1 – Non-sulphide Copper Analysis Results

AGL2

Tot. Copper: *0.913 ± 0.054 %*
Gold: *0.45 ± 0.040 g/t*
Acid Sol. Cu: *0.885 ± 0.040 %*

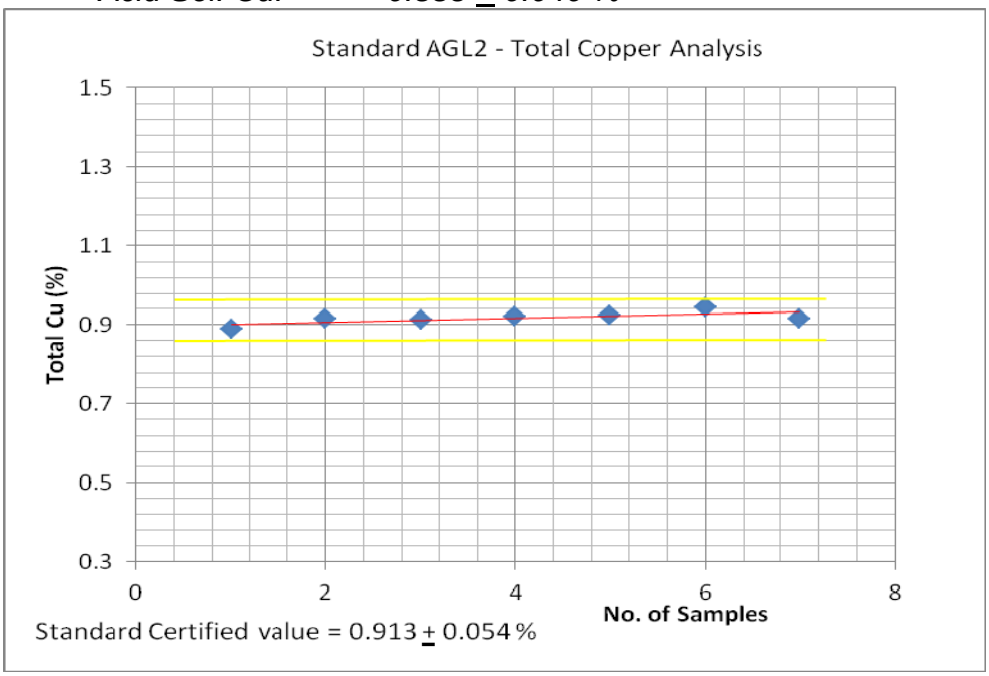


Figure 21. Standard AGL2 – Total Copper Analysis Results

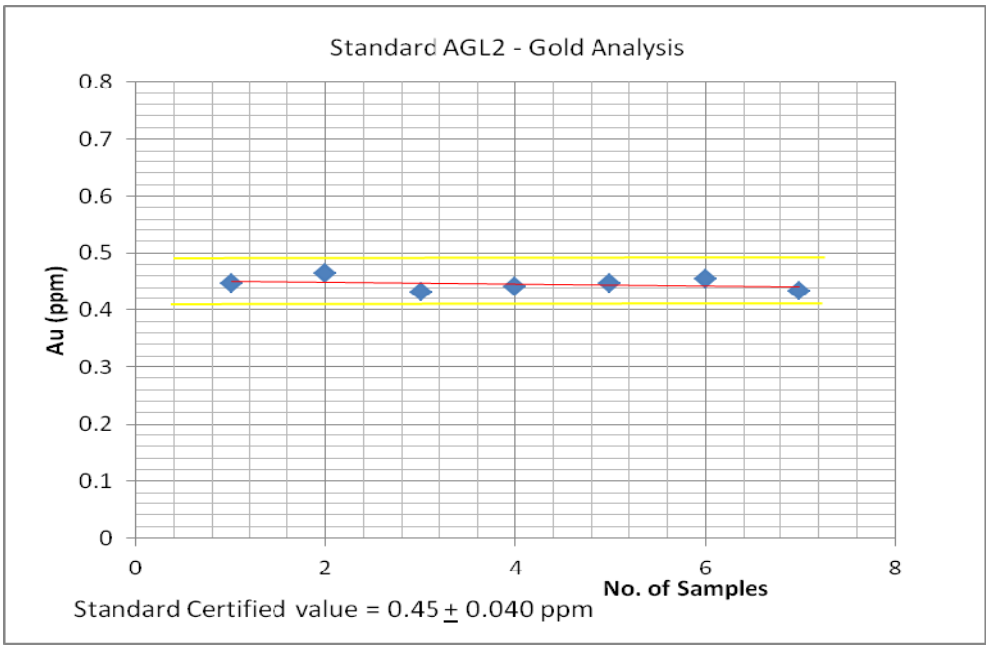


Figure 22. Standard AGL2 – Gold Analysis Results

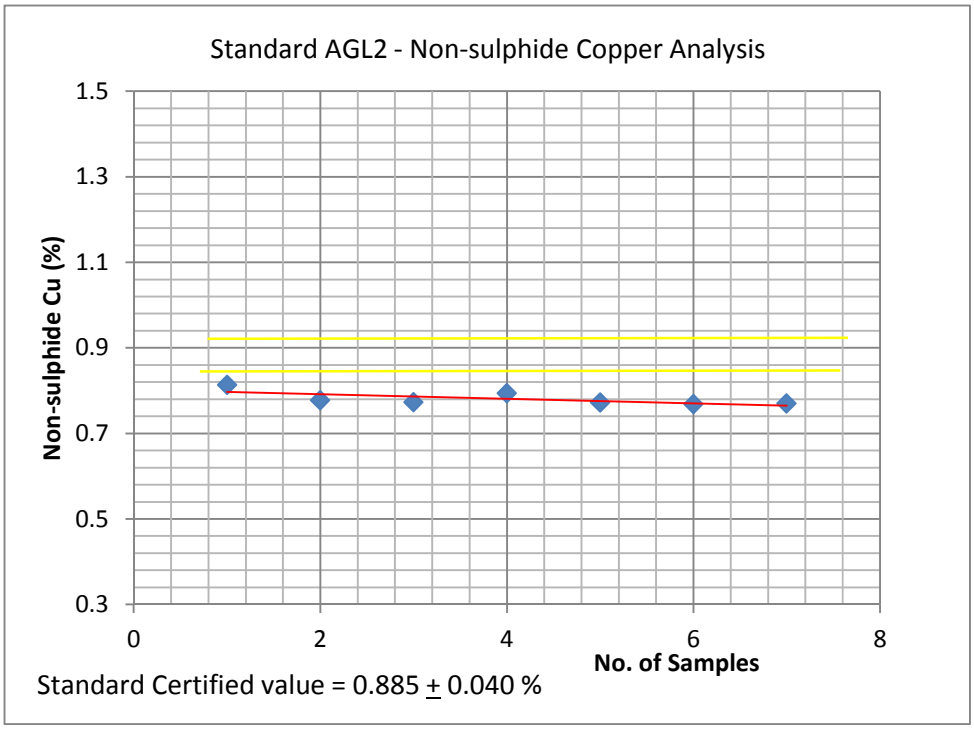


Figure 23. Standard AGL2 – Non-sulphide Copper Analysis Results

AGL3 (blank pulp with most labs reporting at or near detection limit, value shown is warning limit)

Tot. Copper: *0.05%*
Gold: *0.05 g/t*
Acid Sol. Cu: *0.04 %*

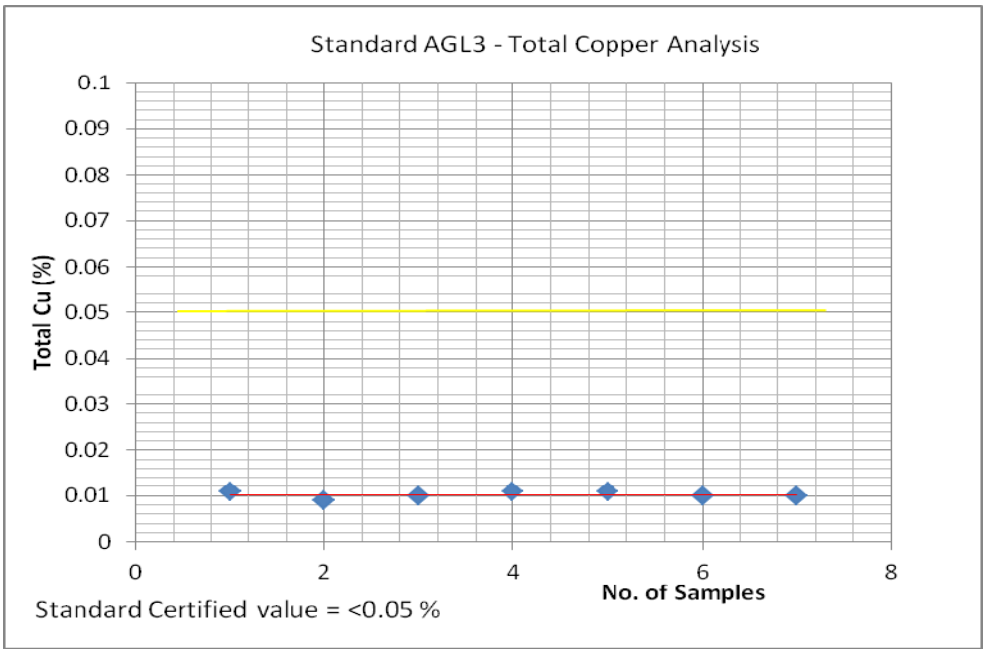


Figure 24. Standard AGL3 – Total Copper Analysis Results

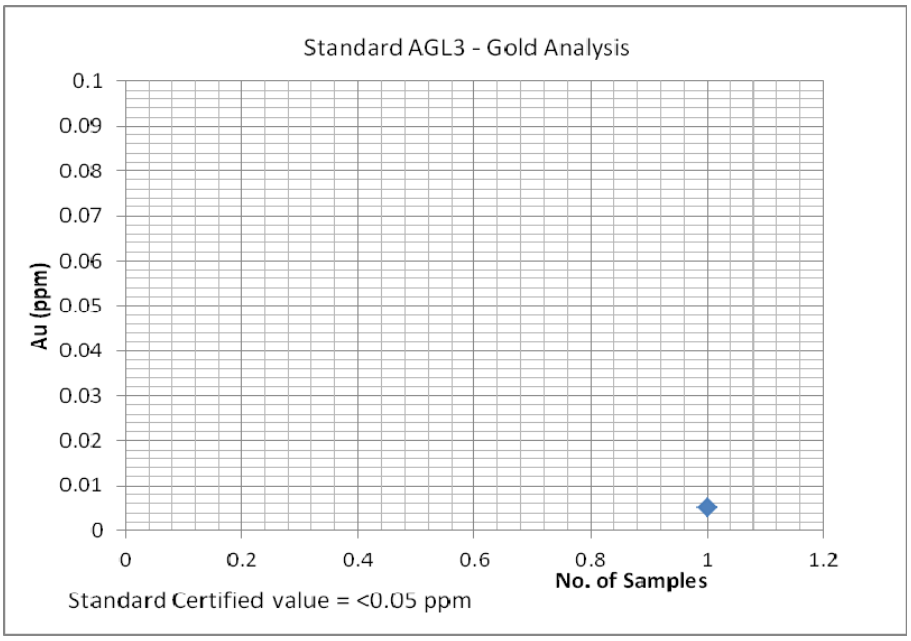


Figure 25. Standard AGL2 – Gold Analysis Results

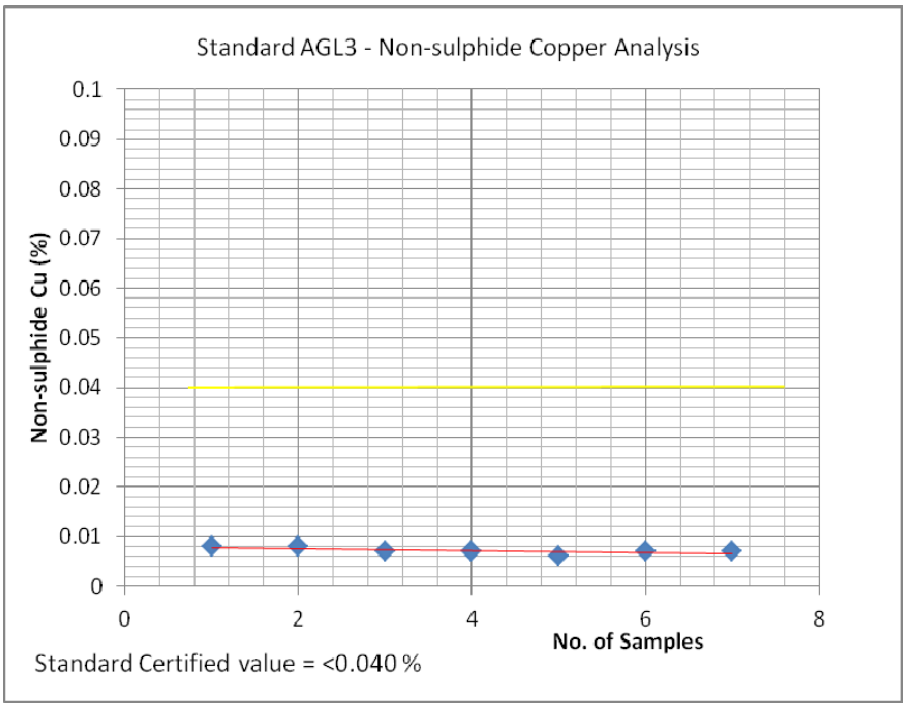


Figure 26. Standard AGL3 – Non-sulphide Copper Analysis Results

The analysis of the sample Standards returned results within the margin of error for total copper, gold and non-sulphide copper for all standards with the exception of the non-sulphide copper values for standard AGL2. All of the analyses for this standard were below the acceptable range for non-sulphide copper. On average the analyses were 11.75% lower than the standard. It should also be noted that for Standard AGL1, the non-sulphide copper

values, while within the acceptable range, were consistently at the lower margin of the acceptable range.

The core duplicates were collected at 20 sample intervals by cutting the half core that remained after the original sampling. This provided one quarter of the drill core for the sample and left one quarter core in the core box. This sample was placed in a separate sample bag and labelled with a unique Acme Labs sample number. Fourteen sample duplicates were collected. The results of the duplicate analyses are illustrated below in the charts for gold, silver, non-sulphide copper and total copper:

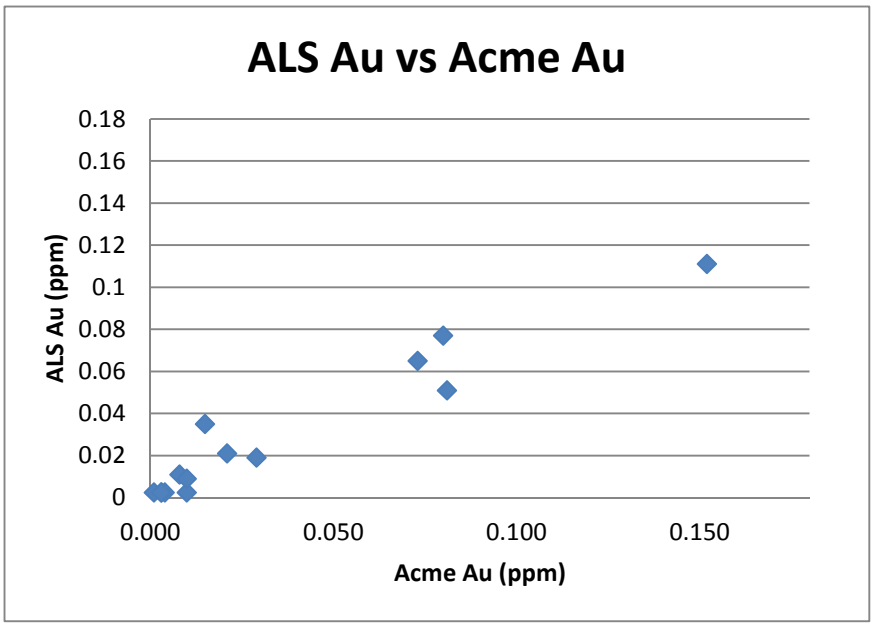


Figure 27. Comparison of ALS gold vs Acme gold analysis for sample duplicates

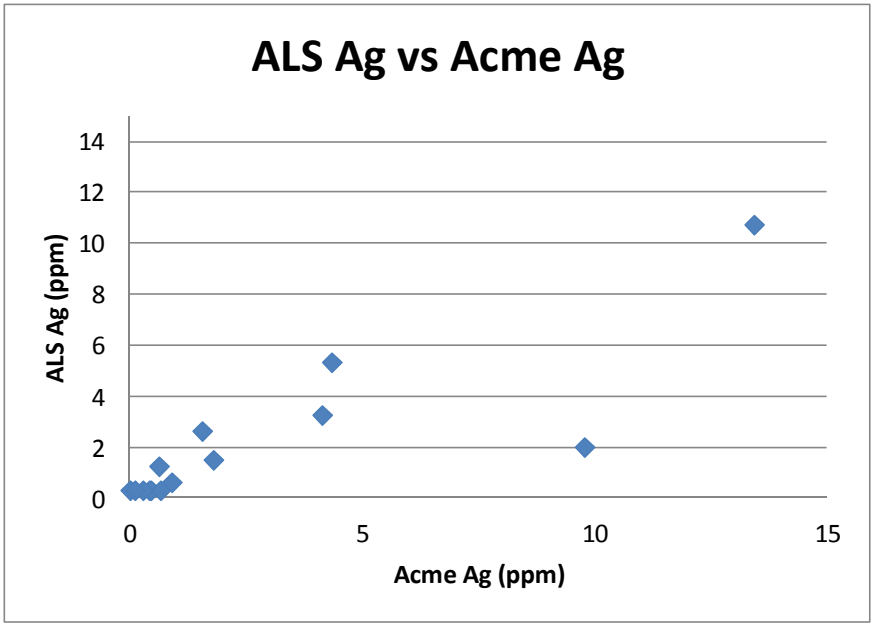


Figure 28. Comparison of ALS silver vs Acme silver analysis for sample duplicates

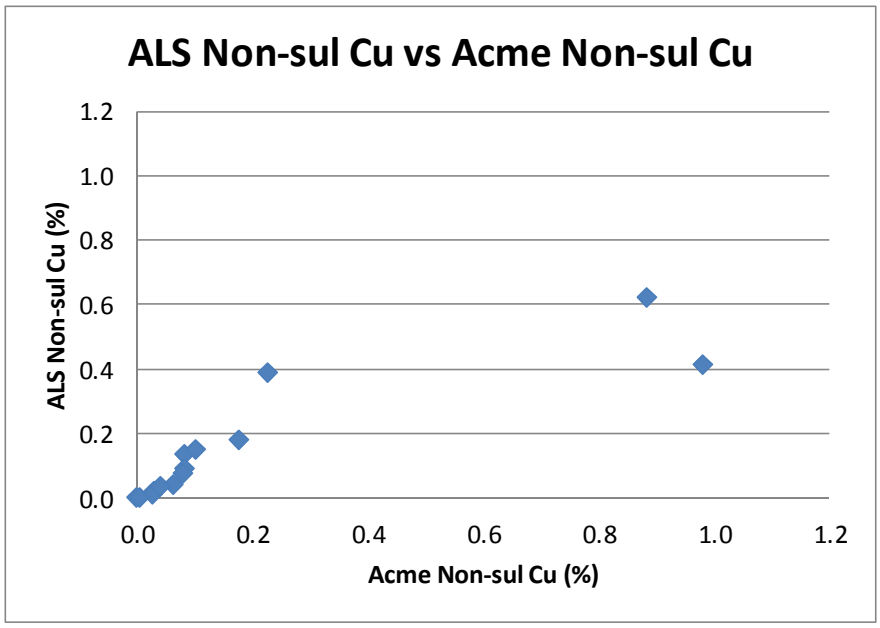


Figure 29. Comparison of ALS non-sulphide copper vs Acme non-sulphide copper analysis for sample duplicates

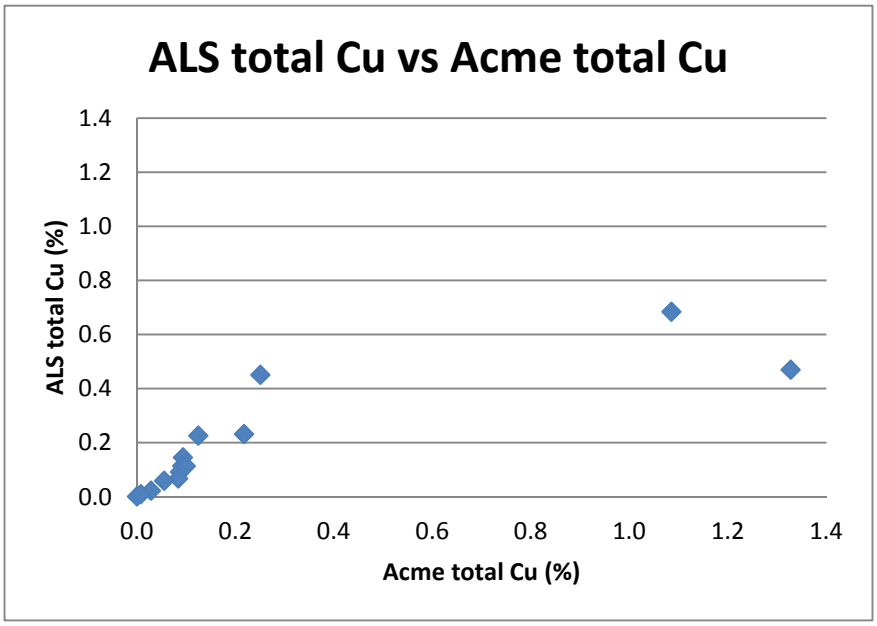


Figure 30. Comparison of ALS total copper vs Acme total copper analysis for sample duplicates

In general, the sample duplicate results returned good comparison for each of the elements; gold, silver, non-sulphide copper and total copper, particularly at lower analytical range. However, for two samples with higher copper content the total copper and non-sulphide copper results were higher in the Acme analysis versus the ALS analysis. For each of these samples the ratio of non-sulphide copper to total copper is consistent within each of the labs. For this reason, it appears that the Acme duplicate samples contained more copper than the ALS samples.

10.0 RESULTS

Soil Sample Results

Much of the historic soil sampling on the property was done in the early 1970's, except for a small survey west of the Yukon River in 2008. In the 1970's, sample stations were located by pace and compass and their map accuracy is poor. This data has been digitized by geo-referencing the historical maps based on topography, and on rare occasion where historic survey pickets could be located, by hand-held GPS location. Hence the location of historic soil sample anomalies is considered approximate. The soil samples collected in the 2014 program were located by hand held GPS.

One hundred and one soils samples were collected on three lines centered over the Zone 2 showing (Figure 7). As expected, the Zone 2 outcrop area returned significantly anomalous copper results; 2 samples in the immediate area returned 721 and 1555 ppm copper. The copper values from the 2014 data set ranged from 7.88 to 1555 ppm, with a standard deviation of 171.32. Other than the two anomalous samples at the showing only one sample was anomalous. It contained 388 ppm copper and is located at the far eastern end of line L143. Gold values were not significantly anomalous, other than the 2 samples from the Zone 2 showing.

IP Geophysical Survey Results

In general, the IP has proven to be a useful tool in defining sulphide zones underlying the oxide mineralization. An IP survey conducted in 2007 was successful in discovering the 2000S zone, where copper sulphide mineralization occurs below copper oxide mineralization at a depth of 50 m below surface. In the Zone 1 area, where oxidation reaches more than 200 m below surface IP has had limited success in identifying the mineralized zone, although the resistivity component can be marginally useful. The goal of the 2014 survey was to define the mineralized zone to help focus the trenching and drilling. The results of the survey are included in Appendix V.

In the Zone 2 area the IP survey returned limited success in defining the copper mineralized zone. The zone averages less than 10 m true width and is steeply dipping. Line L142 was established directly over the showing, with the center of the showing at 250E. The resistivity component of the survey shows a transition from highly resistant rocks to less resistant rocks at 275E, but this is beyond the surface expression of the showing. This response is believed to represent a host rock change from granodiorite to pegmatite and not be representative of the mineralized zone.

The IP Chargeability component of the survey returned values ranging from 3.6 to 6.3 mV/V and did not identify a chargeability anomaly at the showing. While there is a small amount of sulphide in the Zone 2 showing mineralization, it is believed that the sulphide content is too low to be definitively detected by IP.

The three lines surveyed in the GAP Zone area also returned no significant resistivity or

chargeability anomalies. Weaker chargeability responses were drill tested and found to be caused by elevated magnetite content in the relatively massive granodiorite host rocks.

Trenching Results

The trench locations are shown on Figures 5 and 6 and trench geology and sample maps are included in Appendix III. The trenching in Zone 2 was successful in tracing the Zone 2 mineralization over a strike length of 500 m; numerous trenches over this strike length encountered copper oxide mineralization. Significant results from the Zone 2 trenches are:

Table 4. Zone 2 Trench Results

Trench	From (m)	To (m)	Width (m)	Au (g/t)	Ag (g/t)	Oxide Cu (%)	Total Cu (%)
14TR-01	9.00	11.40	2.40	0.005	0.42	0.11	0.13
14TR-05	0.00	12.00	12.00	0.313	9.49	1.15	1.26
14TR-06	4.00	7.00	3.00	0.101	9.50	0.43	0.55
14TR-07	22.00	27.20	5.20	0.040	0.25	0.20	0.22
14TR-10	2.80	8.00	5.20	0.286	3.36	0.40	0.53
14TR-12	4.00	10.00	6.00	0.130	11.68	0.61	0.67
14TR-22	9.00	24.00	15.00	0.105	3.32	0.91	1.01

The trenches north of the showing did not encounter any copper mineralization, but did have numerous faults and pegmatitic intrusions. It is believed that the zone is faulted off in this area. The trenches to the far southern part of Zone 2 encountered permafrost, and the excavator was not able to penetrate the overburden to bedrock. It is possible that the zone may extend further southward below the permafrost. Historic work in the Zone 2 area focused on a strike orientation similar to Zone 1, at 340^{o}; the 2014 found that the zone strikes 110^{o}.

Trenches TR14-15, 16 and 17 were excavated to test isolated, historic soil geochemical anomalies. Copper oxide mineralization was not observed in the trenches, but it is possible that the location was spurious due to the poor accuracy of the geo-referencing.

The four trenches in the southern part of the property, 14TR-26, 27, 28 and 29, were located to test soil geochemical, magnetic and/or IP anomalies. These trenches failed to identify any significant mineralization.

Drilling Results

The drill logs with assay data are included in Appendix IV. For the Zone 2 drilling hole locations are shown on Figure 6 and drill sections on Figures 8 to 12. For the GAP Zone drilling hole locations are shown on Figure 13 and drill sections on Figures 14 to 17.

The drilling in the Zone 2 area was successful in tracing the copper oxide mineralized zone over a strike of 500 m and to a vertical depth of 72 m below surface. The Zone narrows at depth, however, from a maximum width at surface of 15 m in trench 22, to a minimum

estimated true width of 5 m on the drill section for holes CN14-09 and 10. The copper oxide grade and gold grade of Zone 2 is lower than that in Zone 1, 4, 7 and 7A. The weighted average of drill intercepts returns 0.081 g/t gold and 0.31% Cu Ox. Table 5 shows the significant results of drilling in Zone 2.

Table 5. Zone 2 Drilling Results

Hole	From (m)	To (m)	Width (m)	Au (g/t)	Ag (g/t)	Oxide Cu (%)	Total Cu (%)
CN14-01	9.60	19.78	10.18	0.061	5.97	0.48	0.54
CN14-02	14.10	21.10	7.00	0.158	23.56	0.47	0.50
CN14-03	21.06	28.95	7.89	0.037	2.90	0.31	0.35
and	40.00	41.00	1.00	0.000	6.10	0.15	0.23
CN14-04	28.90	42.20	13.30	0.055	5.89	0.38	0.51
CN14-05	15.50	16.50	1.00	0.297	4.80	0.18	0.67
and	22.00	33.00	11.00	0.034	1.05	0.16	0.25
CN14-06	40.70	41.70	1.00	0.016	1.10	0.09	0.22
and	49.70	50.70	1.00	0.048	1.20	0.14	0.20
and	52.70	57.70	5.00	0.138	4.30	0.32	0.85
and	59.70	60.70	1.00	0.100	4.60	0.25	0.35
CN14-07	27.20	28.20	1.00	0.077	1.50	0.18	0.23
CN14-08	52.80	53.80	1.00	0.065	2.30	0.18	0.34
and	55.80	57.80	2.00	0.081	4.40	0.27	0.39
CN14-09	22.80	23.80	1.00	0.067	2.40	0.38	0.44
CN14-10	57.00	81.00	24.00	0.103	2.54	0.26	0.38

The drilling in the GAP Zone was successful in tracing the northern extend of the 2000S mineralized body. Drill hole CN14-11 intersected significant copper oxide mineralization over a drill width of 15.69 m that extends the 2000S Zone to more than 300 m. However, it appears to be cut off to the north by hole CN14-12. It is possible that the zone is offset by a fault in this area.

Drill holes CN14-13 to 14 were drilled to test weak IP chargeability anomalies in the GAP zone and did not encounter any copper mineralization, nor any gneissic material. These IP anomalies were caused by concentrations of magnetite in the granodiorite. Further work in this area is warranted to determine the northern limit of the 2000S Zone body and the southern limit of the Zone 4, 7 and 7A bodies.

Table 6. GAP Zone Drilling Results

Hole	From (m)	To (m)	Width (m)	Au (g/t)	Ag (g/t)	Oxide Cu (%)	Total Cu (%)
CN14-11	21.26	36.95	15.69	0.220	2.84	0.57	0.67
CN14-12	no significant intercepts						
CN14-13	no significant intercepts						
CN14-14	no significant intercepts						
CN14-15	no significant intercepts						

11.0 CONCLUSIONS AND RECOMENDATIONS

The 2014 exploration program was successful in delineating the Zone 2 mineralization along strike and to depth. The shallow depth of the zone makes it amenable to open pit mining. However the size and grade are lower than that in the current mine plan. Further work should be done to determine the economics of the Zone 2 mineralization.

The drill program in the GAP Zone returned limited success. The 2000S body was further delineated with hole CN14-11 returning 15.69 m grading 0.220 g/t gold and 0.57% Cu oxide. The other holes drilled in the GAP Zone tested weak IP chargeability anomalies which were found to be caused by magnetite mineralization.

The soil sampling program in Zone 2 returned one significant copper anomaly on the eastern part of the grid that remains to be explained and should be followed up.

The IP Survey returned limit success in delineating copper mineralization and/or gneissic bodies. The premise of the survey was that it would identify the un-oxidized, sulphide component at depth. However, in Zone 2 it appears the virtually all the copper mineralization is as oxide and hence did not respond to IP.

After a review of the historic data, along with the results of the 2014 program, many targets remain to be evaluated with the potential to increase the reserves in the Zone 1, 4, 7 and 7A area. Zones 7 and 7A have not been drilled off and additional drilling here should add to the resource. In geological interpretation in Zone 4 is confusing and additional drilling here will assist to determine if and where additional targets exist in the GAP Zone. The north end of Zone 1 contains the highest gold and copper grades with the highest copper oxide ratio. Additional work in this area is warranted to determine if there is an extension or fault offset to the Zone 1 body to the north. Recommendations for this area are to conduct a detailed magnetic survey, trenching where overburden depth is not too great, and diamond drilling.

The estimated budget for the recommended program is $1,000,000 to 2,000,000.

Respectfully submitted

Scott Casselman, BSc., P.Geo.

STATEMENT OF EXPENDITURES

Contracting Costs

Casselman Geological Services Ltd.

Scott Casselman, project manager		$ 39,000.00
Pat McIntosh, cook		8,800.00
Field assistants		17,575.00
Truck rental	57 days @ $150 /day	8,550.00
ATV rental	34 days @ $125 /day	4,250.00
Tools, phone rental, and supplies		6,171.80
Halle Geological Services Ltd. – geological consulting		20,923.74
Jack Milton - geological consultant		19,897.18

H. Coyne and Sons Ltd.

Heavy equipment for trenching	64,673.75
Camp costs	25,119.89

Kluane Drilling Ltd

Diamond drilling costs	121,400.46
Heavy equipment for drilling	24,090.00

Aurora Geosciences Ltd. – IP geophysical survey	20,563.50
Sample analyses	24,789.65
Shipping costs	910.70
Fuel	25,183.41
Field Supplies	6,336.74
Expiditing	28,045.11
Groceries	12,380.45
Travel expenses	1,611.84
Vehicle rental	649.99
Trans North Helicopters	2,067.20
Report Writing and reproduction costs	6,000.00
Total	**$ 488,990.41**

12.0 REFERENCES

Archer, A.R., 1971. Geology and Geochemistry of the Williams Creek Property. Yukon Government assessment report # 060203.

Archer, A.R., 1972. 1971 Exploration Program, Dawson Range Joint Venture.

Archer, A.R., 1972. Report on the 1972 Geochemical, Diamond Drilling and Trenching Program, Williams Creek Property, Dawson Range Joint Venture. Yukon Government assessment report # 060114.

Casselman, S. G., 2007. 2006 Assessment Report for the Carmacks Copper Project. Yukon Government Assessment Report.

Casselman, S. G., 2008 Assessment Report for the Carmacks Copper Project. Yukon Governement Assessment Report.

Casselman, S. G., 2011 Assessment Report for the Carmacks Copper Project. Yukon Governement Assessment Report.

Cavey, G. Gunning, D. Clegg, J., 1966. Technical Report on the Carmacks Copper Project, Whitehorse Mining Division, Yukon Territory, For Western Copper Corp. Western Copper Corporation private report.

Archer, A. R., 1991. Assessment Report, Williams Creek Property, Whitehorse Mining Division, Western Copper Holdings Limited. Yukon Government assessment report # 092944.

Gordey, S.P. and Makepeace, A.J. (comp.) 1999: Yukon bedrock geology in Yukon digital geology; Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1(D)

Harder, P. A., 1993. Biophysical Assessment of the Williams Creek Mine Site. Yukon Government assessment report # 093083.

Holtby, M., 1992. Assessment Report, Williams Creek Property, Whitehorse Mining Division, Western Copper Holdings Limited. Yukon Government assessment report # 093023.

Holtby, M., 1993. Assessment Report, Williams Creek Property, Whitehorse Mining Division, Western Copper Holdings Limited. Yukon Government assessment report # 093100.

Jackson, L. E. Jr., 1997. Surficial Geology, Tantalus Butte, Yukon Territory. Geological Survey of Canada, Map 1879A, scale 1:100,000.

McNaughton, K., 1994. Carmacks Copper Project, 1994 Exploration Program.

Robinson, R. J., Casselman, S. G., 2006. Mineral Resource Estimate for the Carmacks Copper Project. Western Copper Corporation Private report.

APPENDIX I

STATEMENT OF QUALIFICATIONS

Statement of Qualifications

I, Scott Casselman, P. Geo., certify that:

1. I am a geologist employed by Casselman Geological Services Ltd. and reside at 33 Firth Road, Whitehorse, Yukon Territory, Y1A 4R5.

2. I graduated from Carleton University in Ottawa, Ontario with a Bachelor of Science Degree in Geology in 1985 and have worked as a geologist since that time.

3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration No. 20032.

4. I supervised the 2014 exploration program on the Carmacks Copper Project in Central Yukon, for Copper North Mining Corp. described in this report.

Dated this ___day of _____, 2015, at Whitehorse, Yukon Territory.

Scott G. Casselman, BSc., P.Geo.

Appendix II

GEOCHEMICAL ANALYTICAL CERTIFICATES

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 16- SEP- 2014
Account: COPNOR

CERTIFICATE WH14131115

This report is for 31 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
PUL- 31	Pulverize split to 85% <75 um
SPL- 21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Au- AA23	Au 30g FA- AA finish	AAS
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
ME- MS61	48 element four acid ICP- MS	

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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CERTIFICATE OF ANALYSIS WH14131115

Sample Description	Method	WEI- 21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E899901		4.81	17.10	7.94	4.5	740	1.78	4.89	3.31	0.21	56.3	18.2	8	1.03	>10000	6.69
E899902		8.28	7.95	7.84	3.8	920	1.93	3.56	4.18	0.26	48.8	18.8	7	0.83	>10000	7.39
E899903		8.62	6.88	7.80	4.9	820	1.72	2.17	4.07	0.14	41.8	18.7	17	0.88	9310	6.34
E899904		8.19	6.03	8.36	4.7	1050	1.90	2.04	4.10	0.15	55.7	20.3	7	1.11	7470	7.20
E899905		12.51	0.13	8.18	2.4	650	1.68	0.09	4.22	0.08	20.3	9.6	5	0.98	266	3.81
E899906		7.63	0.12	8.53	2.5	890	1.42	0.09	3.03	0.03	11.95	10.1	5	0.87	87.9	4.03
E899907		0.81	0.02	7.13	3.1	850	1.09	0.07	6.76	0.11	31.5	39.6	5	0.16	19.2	9.16
E899908		1.06	0.02	7.50	2.2	680	0.72	0.04	7.99	0.10	29.9	40.8	5	0.21	16.8	9.16
E899909		1.16	0.02	6.91	1.8	690	0.93	0.04	7.99	0.10	33.2	43.1	13	0.15	11.6	9.77
E899910		0.61	0.03	7.73	4.1	840	1.24	0.05	6.98	0.12	31.9	41.2	8	0.21	11.8	10.05
E899911		7.05	4.60	8.70	2.8	1340	1.80	3.16	3.63	0.16	32.1	13.6	3	0.56	3310	4.72
E899912		10.61	18.75	8.23	2.5	2000	1.91	3.65	3.51	0.56	43.6	18.5	3	0.45	9390	6.21
E899913		4.75	0.67	8.52	1.5	1410	1.92	1.27	3.50	0.21	39.4	12.0	7	0.37	1765	4.31
E899914		3.78	7.33	8.68	2.5	1520	1.79	19.05	2.91	1.56	66.6	27.2	5	0.47	>10000	6.12
E899915		3.75	3.50	8.62	2.3	1650	1.67	8.30	2.87	0.89	50.0	22.8	5	0.42	>10000	5.41
E899916		4.83	2.68	8.04	2.1	2480	1.62	4.60	3.05	0.46	59.5	16.2	5	0.31	5530	5.21
E899917		4.21	2.14	8.31	1.7	1440	1.87	6.82	4.25	0.44	108.0	27.0	5	0.62	7720	7.57
E899918		3.69	0.95	8.30	2.1	1300	1.81	1.07	3.53	0.15	50.9	14.9	5	0.38	2820	5.01
E899919		4.72	0.10	8.89	1.9	1280	1.90	0.11	2.76	0.07	32.8	10.0	5	0.39	249	3.75
E899920		4.81	0.36	8.66	1.4	960	1.86	0.20	3.24	0.07	23.9	9.3	6	0.29	437	3.60
E899921		5.74	0.18	8.71	4.9	760	1.89	0.12	3.78	0.07	24.2	13.0	4	0.44	283	4.74
E899922		6.59	9.50	8.42	8.4	1730	1.89	2.13	4.55	0.31	50.7	15.7	5	0.66	5580	5.07
E899923		4.72	2.83	9.07	7.3	1780	1.80	0.68	3.91	0.19	42.9	15.9	5	0.58	1930	5.11
E899924		5.17	0.08	8.70	2.4	680	1.90	0.06	3.92	0.04	18.90	10.6	12	0.44	34.0	4.31
E899925		4.65	0.53	8.47	2.8	990	2.00	0.22	4.17	0.06	26.9	13.5	4	0.40	1280	4.96
E899926		3.91	2.67	8.91	3.4	1460	2.05	0.80	4.02	0.11	26.9	15.2	4	0.57	3330	5.67
E899927		3.92	0.06	8.74	3.0	820	1.56	0.06	3.98	0.04	45.4	12.2	6	0.42	73.4	4.73
E899928		8.21	3.72	8.63	2.1	1540	1.57	0.90	4.06	0.08	46.5	13.6	5	0.34	5810	4.74
E899929		6.38	2.86	8.88	1.5	1670	1.80	1.44	4.18	0.09	66.3	17.3	5	0.48	4730	6.21
E899851		2.66	0.42	8.69	2.6	830	1.66	0.26	3.27	0.37	24.9	9.8	5	2.15	1155	3.78
E899852		7.40	0.09	8.60	0.9	1320	1.41	0.10	2.60	0.04	12.60	5.4	3	1.73	82.4	2.15

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6C 3P1

Finalized Date: 16- SEP- 2014
Account: COPNOR

CERTIFICATE OF ANALYSIS WH14131115

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E899901		23.5	0.14	1.1	0.080	1.01	30.3	17.0	1.97	1140	0.39	3.63	7.8	7.1	2250	16.1
E899902		25.5	0.13	1.1	0.100	1.07	25.4	11.1	1.93	1110	0.71	3.38	6.8	6.1	1970	8.6
E899903		23.6	0.10	0.9	0.090	0.84	21.5	21.2	1.97	1110	0.41	3.40	6.7	5.9	1880	6.7
E899904		26.2	0.14	1.0	0.086	0.87	29.0	21.0	1.97	1120	0.28	3.09	7.5	5.6	2220	8.0
E899905		24.1	0.10	0.5	0.053	0.91	8.4	13.0	0.86	698	0.22	3.90	4.0	3.3	1230	7.1
E899906		21.4	0.10	0.5	0.045	0.96	4.5	12.0	1.12	777	0.26	4.46	5.4	3.4	1230	7.4
E899907		20.7	0.12	1.3	0.100	0.93	11.7	10.6	4.60	1740	0.13	2.28	3.3	15.4	3180	2.2
E899908		20.5	0.13	1.3	0.087	0.86	11.6	11.0	4.44	1500	0.17	2.03	2.7	16.8	3110	1.9
E899909		20.1	0.11	1.5	0.097	0.91	12.6	10.4	5.16	1650	0.13	1.97	3.0	16.4	3130	2.8
E899910		22.5	0.10	1.4	0.113	0.92	12.0	13.7	4.89	1910	0.15	2.53	3.7	14.3	3370	3.0
E899911		22.5	0.11	0.8	0.065	0.76	14.2	15.7	1.29	868	0.21	4.07	5.5	3.0	1680	6.3
E899912		23.4	0.11	1.0	0.100	0.87	21.1	20.9	1.98	1200	0.33	3.81	6.0	4.2	2340	6.4
E899913		23.5	0.13	0.6	0.107	0.95	18.0	11.5	1.28	793	0.87	4.24	7.9	4.1	1350	6.3
E899914		23.3	0.13	1.1	0.238	1.24	36.6	19.1	1.95	782	3.76	3.36	8.2	4.5	2320	12.3
E899915		22.9	0.12	1.0	0.156	1.37	26.8	17.9	1.70	706	2.45	3.63	7.5	4.0	2150	7.7
E899916		22.2	0.12	1.0	0.086	1.76	32.9	12.5	1.48	791	0.59	3.37	7.8	3.7	1840	8.3
E899917		25.7	0.16	1.5	0.107	1.23	59.7	17.8	2.25	1060	0.54	3.04	9.1	5.0	2860	6.8
E899918		22.9	0.11	0.9	0.086	1.13	25.9	12.5	1.44	830	0.40	3.94	6.2	3.7	1740	5.5
E899919		21.8	0.13	0.6	0.061	1.39	12.7	10.4	1.13	734	0.39	4.57	8.2	3.2	1160	5.7
E899920		22.2	0.12	0.5	0.052	1.00	10.5	8.7	1.01	695	0.32	4.45	5.0	3.7	1080	8.0
E899921		22.6	0.11	0.9	0.053	0.86	9.8	14.7	1.33	885	0.24	4.61	5.6	4.1	1700	6.7
E899922		24.6	0.12	1.0	0.061	1.00	25.7	23.7	1.43	875	1.11	3.89	6.9	7.2	1910	10.4
E899923		23.3	0.14	1.0	0.062	1.13	21.8	22.9	1.61	888	0.17	4.21	6.3	4.2	2070	5.2
E899924		23.5	0.09	0.5	0.051	0.71	6.9	12.6	1.21	827	0.22	4.61	4.6	4.1	1290	6.1
E899925		23.8	0.10	0.8	0.070	0.73	10.8	13.7	1.45	916	0.22	4.39	4.9	4.0	1730	5.3
E899926		24.2	0.13	1.0	0.067	0.97	10.5	14.6	1.58	994	0.28	4.22	5.0	3.9	2060	5.5
E899927		23.3	0.14	0.6	0.063	0.75	22.5	13.0	1.36	915	0.19	4.38	6.0	4.3	1450	5.7
E899928		22.9	0.13	0.9	0.065	0.75	22.4	11.8	1.35	880	0.24	4.31	6.5	4.0	1840	5.6
E899929		24.1	0.14	0.9	0.087	0.95	33.7	13.3	1.65	1100	0.27	4.09	6.8	4.1	2040	5.8
E899851		21.8	0.12	0.5	0.048	1.13	10.9	13.7	1.00	726	0.29	4.24	5.1	3.8	1050	6.6
E899852		19.45	0.09	0.3	0.030	1.32	5.4	9.6	0.59	496	0.19	4.56	4.2	1.9	530	6.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: COPPER NORTH
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Finalized Date: 16- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131115

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E899901		23.7	<0.002	0.02	0.11	18.2	14	2.1	691	0.32	5.78	4.7	0.513	0.19	0.9	191
E899902		27.6	<0.002	0.03	0.10	23.0	7	2.3	796	0.29	2.28	3.2	0.542	0.20	0.8	235
E899903		15.6	<0.002	0.01	0.08	17.9	3	2.1	830	0.26	1.63	3.0	0.541	0.17	0.6	202
E899904		21.1	<0.002	0.01	0.10	18.8	3	2.0	731	0.29	1.12	4.5	0.550	0.16	0.6	238
E899905		16.5	<0.002	0.01	0.19	11.0	1	1.2	653	0.13	<0.05	0.8	0.347	0.16	0.2	118
E899906		16.7	<0.002	0.01	0.12	11.5	1	1.3	846	0.20	<0.05	0.3	0.362	0.15	0.8	117
E899907		10.4	<0.002	<0.01	<0.05	42.1	1	1.6	848	0.11	<0.05	0.3	0.660	0.06	0.1	360
E899908		9.7	<0.002	<0.01	<0.05	41.1	1	1.3	1050	0.11	<0.05	0.4	0.666	0.06	0.2	370
E899909		9.0	<0.002	<0.01	<0.05	47.0	1	1.4	747	0.12	<0.05	0.4	0.712	0.07	0.2	364
E899910		10.0	<0.002	<0.01	0.07	43.2	1	1.7	907	0.14	<0.05	0.3	0.686	0.06	0.2	366
E899911		13.6	<0.002	0.02	0.06	11.6	1	1.3	929	0.25	0.33	2.5	0.378	0.11	0.5	156
E899912		16.2	<0.002	0.03	0.05	15.3	2	1.8	1165	0.22	1.35	3.3	0.523	0.14	0.6	190
E899913		15.4	<0.002	0.01	0.33	13.7	1	1.6	1235	0.46	0.11	3.0	0.358	0.13	0.5	130
E899914		35.8	<0.002	0.05	0.29	14.4	4	1.9	1120	0.44	1.10	8.1	0.527	0.22	1.5	202
E899915		37.3	<0.002	0.01	0.37	12.3	2	1.5	1235	0.39	0.51	6.3	0.478	0.23	1.4	177
E899916		40.4	<0.002	0.01	0.40	12.8	1	1.5	1150	0.44	0.59	7.0	0.415	0.23	1.5	172
E899917		38.7	<0.002	0.01	0.14	22.4	2	2.2	981	0.42	0.53	16.0	0.620	0.22	1.9	245
E899918		21.4	<0.002	0.01	0.27	14.6	1	1.6	1235	0.27	0.29	5.9	0.413	0.18	0.9	151
E899919		26.7	<0.002	<0.01	0.16	11.7	1	1.5	1170	0.48	<0.05	2.8	0.321	0.18	0.8	104
E899920		15.7	<0.002	<0.01	0.23	10.1	1	1.2	1220	0.23	0.05	1.9	0.306	0.11	0.4	103
E899921		12.7	<0.002	<0.01	0.05	12.8	<1	1.4	1540	0.22	<0.05	1.5	0.399	0.11	0.4	146
E899922		16.1	<0.002	0.07	0.06	11.0	3	1.4	1445	0.26	0.66	6.0	0.455	0.15	0.6	157
E899923		19.4	<0.002	0.02	<0.05	11.7	1	1.4	1530	0.24	0.15	3.7	0.455	0.15	0.5	156
E899924		7.4	<0.002	<0.01	0.05	10.9	1	1.3	1340	0.19	<0.05	1.0	0.366	0.11	0.2	120
E899925		8.1	<0.002	0.01	<0.05	14.2	1	1.5	1435	0.19	0.11	1.8	0.408	0.11	0.3	146
E899926		19.6	<0.002	0.01	0.05	13.5	2	1.6	1380	0.21	0.68	1.4	0.454	0.16	0.5	171
E899927		10.1	<0.002	<0.01	0.06	13.7	1	1.4	1245	0.24	<0.05	3.5	0.399	0.10	0.3	147
E899928		8.7	<0.002	0.09	0.07	13.2	3	1.4	1410	0.26	0.96	3.8	0.411	0.10	0.5	143
E899929		14.4	<0.002	0.03	0.05	15.0	2	1.7	1210	0.28	0.44	6.0	0.450	0.12	0.5	193
E899851		23.8	<0.002	<0.01	0.63	10.3	<1	1.2	873	0.20	<0.05	1.7	0.309	0.21	0.3	109
E899852		26.7	<0.002	<0.01	0.38	5.7	<1	0.7	978	0.24	0.06	0.9	0.172	0.22	0.3	55

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 16- SEP- 2014
Account: COPNOR

CERTIFICATE OF ANALYSIS WH14131115

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Cu- OG62 Cu % 0.001	Cu- AA05 Cu % 0.001	Au- AA23 Au ppm 0.005	Cu- AA62 Cu % 0.001
E899901		2.8	28.0	118	34.0	1.565	1.545	0.671	1.677
E899902		1.6	31.4	119	30.9	1.525	1.420	0.241	1.579
E899903		0.9	24.2	120	22.8		0.910	0.190	1.004
E899904		0.7	25.7	128	27.4		0.735	0.150	0.793
E899905		0.7	13.2	81	13.8		0.009	<0.005	0.012
E899906		0.7	17.5	85	13.3		0.007	<0.005	0.010
E899907		0.6	26.4	136	33.0		0.002	<0.005	0.003
E899908		0.4	23.5	105	34.0		0.001	<0.005	0.003
E899909		0.3	26.5	114	37.2		0.001	<0.005	0.002
E899910		0.4	28.0	158	32.9		0.001	<0.005	0.002
E899911		0.4	15.7	83	22.3		0.295	0.050	0.347
E899912		0.5	22.7	121	28.2		0.923	0.210	0.995
E899913		0.6	19.0	88	15.0		0.154	0.013	0.185
E899914		1.1	19.1	121	35.1	2.18	1.995	0.146	2.231
E899915		1.2	15.9	109	31.5	1.095	1.040	0.102	1.159
E899916		0.9	18.0	89	30.9		0.533	0.174	0.571
E899917		0.7	27.5	107	42.3		0.722	0.080	0.789
E899918		0.5	18.2	88	25.3		0.239	0.024	0.289
E899919		0.5	18.9	76	15.3		0.016	<0.005	0.026
E899920		0.4	11.7	72	14.0		0.037	<0.005	0.033
E899921		0.3	13.0	86	29.1		0.019	<0.005	0.030
E899922		0.3	16.0	88	30.3		0.426	0.101	0.551
E899923		0.3	14.4	98	32.0		0.160	0.032	0.197
E899924		0.3	13.1	80	12.9		0.003	<0.005	0.004
E899925		0.3	16.8	95	21.8		0.116	0.015	0.139
E899926		0.3	19.0	111	30.4		0.319	0.075	0.338
E899927		0.3	18.1	88	15.0		0.004	<0.005	0.008
E899928		0.3	18.2	82	27.6		0.399	0.147	0.577
E899929		0.3	20.2	106	22.4		0.404	0.476	0.467
E899851		0.8	10.4	79	12.6		0.105	0.005	0.125
E899852		0.3	7.4	46	8.7		0.006	<0.005	0.010

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18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 16- SEP- 2014
Account: COPNOR

CERTIFICATE OF ANALYSIS WH14131115

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	PUL- 31
PUL- QC	SPL- 21	WEI- 21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Cu- AA05	Cu- AA62	Cu- OG62
ME- MS61	ME- OG62		

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Finalized Date: 10- SEP- 2014
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CERTIFICATE WH14131116

This report is for 1 Soil sample submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP61	33 element four acid ICP- AES	ICP- AES

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 10- SEP- 2014
Account: COPNOR

CERTIFICATE OF ANALYSIS WH14131116

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
14TR- 17		0.55	<0.005	<0.5	7.14	5	1170	1.2	<2	4.05	<0.5	13	51	36	3.95	20

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Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131116

Sample Description	Method Analyte Units LOR	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01
14TR- 17		1.50	20	1.26	760	<1	2.57	15	1770	9	0.01	<5	14	657	<20	0.37

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Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131116

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- AA05	Cu- AA62
	Analyte	Tl	U	V	W	Zn	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	10	10	1	10	2	0.001	0.001
14TR- 17		<10	<10	128	<10	76	0.001	0.007

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Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131116

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 21 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- AA23 Cu- AA05 Cu- AA62 ME- ICP61

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Finalized Date: 10- SEP- 2014
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CERTIFICATE WH14131117

This report is for 3 Pulp samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 24	Pulp Login - Rcd w/o Barcode
LOG- QC	QC Test on Received Samples
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
Au- AA23	Au 30g FA- AA finish	AAS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131117

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Cu- AA62 Cu % 0.001	Au- AA23 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01
AGL1		0.14	1.734	0.607	9.5	8.08	<5	1310	1.1	11	1.89	<0.5	9	26	>10000	3.14
AGL2		0.12	0.888	0.446	3.8	9.14	<5	1500	1.4	<2	2.64	<0.5	9	20	8990	3.72
AGL3		0.13	0.011	<0.005	<0.5	9.25	<5	950	1.5	<2	3.39	<0.5	7	19	92	3.22

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Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131117

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	10	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
AGL1		20	1.55	10	0.84	347	62	3.34	9	960	7	0.08	<5	7	912	<20
AGL2		20	1.27	10	0.97	647	7	4.21	7	1220	8	0.03	<5	7	1255	<20
AGL3		20	0.88	<10	0.65	662	<1	4.74	5	880	7	0.01	<5	7	1490	<20

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CERTIFICATE OF ANALYSIS WH14131117

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA05
	Analyte	Ti	Tl	U	V	W	Zn	Cu	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	%	%
	LOR	0.01	10	10	1	10	2	0.001	0.001
AGL1		0.27	<10	<10	95	30	72	1.670	1.490
AGL2		0.29	<10	<10	103	<10	78		0.813
AGL3		0.22	<10	<10	83	<10	59		0.008

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 10- SEP- 2014
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CERTIFICATE OF ANALYSIS WH14131117

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

LOG- 22	LOG- 24	LOG- QC	SCR- 41
WEI- 21			

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Cu- AA05	Cu- AA62	Cu- OG62
ME- ICP61	ME- OG62		

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Finalized Date: 2- OCT- 2014
Account: COPNOR

CERTIFICATE WH14131279

Project: CARMACKS COPPER

P.O. No.: COL- 14- 03

This report is for 143 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- 31	Fine crushing - 70% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
LOG- 21	Sample logging - ClientBarCode
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
Au- AA23	Au 30g FA- AA finish	AAS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899501		3.81	<0.005	<0.5	9.10	<5	3040	1.2	<2	2.78	<0.5	13	17	191	3.73	20
E899502		2.67	0.008	<0.5	8.67	<5	1630	1.1	<2	3.75	2.4	27	29	826	6.37	20
E899503		3.35	0.005	<0.5	8.32	<5	1860	1.1	<2	4.81	2.1	25	29	628	6.52	20
E899504		3.72	<0.005	<0.5	8.47	<5	2990	1.2	3	3.78	2.5	23	31	770	5.68	20
E899505		3.16	<0.005	<0.5	8.22	<5	2970	1.1	<2	2.39	<0.5	8	28	35	2.33	20
E899506		3.42	0.005	<0.5	8.69	<5	1520	1.3	<2	3.53	<0.5	8	5	348	3.05	20
E899507		2.96	0.007	<0.5	8.48	<5	1290	1.2	<2	2.99	<0.5	14	57	712	3.99	20
E899508		2.20	0.006	<0.5	9.17	<5	1560	1.3	<2	3.47	<0.5	16	35	633	4.91	20
E899509		3.03	<0.005	<0.5	8.74	<5	1590	1.2	<2	3.80	<0.5	19	55	777	4.96	20
E899510		3.27	0.020	<0.5	8.35	<5	1230	1.3	3	4.82	<0.5	24	26	1560	6.27	20
E899511		2.40	<0.005	1.1	8.52	<5	1420	1.3	<2	2.81	<0.5	19	112	1045	5.17	20
E899512		2.49	0.006	<0.5	8.26	<5	1570	1.3	<2	3.99	<0.5	17	42	590	4.88	20
E899513		2.80	<0.005	<0.5	8.48	<5	1350	1.2	<2	4.10	1.2	26	76	695	5.59	20
E899514		3.28	<0.005	<0.5	8.71	<5	1010	1.4	<2	4.26	2.2	26	24	835	5.08	20
E899515		2.98	0.027	<0.5	8.84	<5	1420	1.3	3	4.02	1.2	27	27	1110	5.88	20
E899516		2.99	<0.005	<0.5	9.47	<5	1870	1.4	<2	2.79	0.5	11	9	279	3.79	20
E899517		3.17	<0.005	<0.5	9.07	<5	1390	1.5	<2	3.16	<0.5	7	9	257	2.55	20
E899518		4.31	<0.005	<0.5	8.46	<5	2650	1.2	<2	3.08	<0.5	6	7	13	2.17	20
E899519		3.27	0.024	0.5	8.23	<5	950	1.6	<2	4.53	<0.5	19	7	1180	5.99	20
E899520		2.87	0.064	0.6	5.63	<5	1790	1.1	3	5.44	<0.5	6	9	1070	3.14	20
E899521		3.03	0.156	1.3	5.64	<5	1570	1.5	<2	4.97	<0.5	6	8	2020	2.86	20
E899522		2.88	0.006	<0.5	7.11	<5	1150	1.3	<2	4.11	<0.5	10	4	154	4.17	20
E899523		3.16	0.007	<0.5	8.07	<5	1480	1.5	5	3.97	<0.5	11	4	376	5.35	20
E899524		2.75	0.031	<0.5	7.60	<5	1100	1.2	<2	3.91	<0.5	6	3	499	2.83	20
E899551		2.73	<0.005	<0.5	7.87	<5	1350	2.0	<2	3.05	<0.5	6	7	71	3.14	20
E899552		3.46	<0.005	<0.5	8.46	<5	1000	2.0	<2	3.99	<0.5	8	8	99	4.03	20
E899553		3.15	<0.005	<0.5	8.12	<5	780	2.0	<2	3.68	<0.5	9	7	207	3.54	20
E899554		3.26	<0.005	<0.5	6.99	<5	1040	1.8	<2	2.82	<0.5	8	6	67	3.21	20
E899555		3.18	0.055	2.4	7.64	<5	1740	1.8	2	2.64	<0.5	12	6	4910	3.82	20
E899556		2.97	0.057	1.9	7.62	<5	2000	1.8	6	2.83	<0.5	13	5	5630	3.48	20
E899557		3.63	0.094	3.4	7.10	<5	1580	1.4	22	1.76	0.8	12	4	>10000	2.63	20
E899558		2.82	0.024	1.7	7.30	5	2040	1.3	5	1.54	<0.5	7	5	2900	2.19	20
E899559		3.01	0.062	3.8	7.38	5	2130	1.5	6	1.71	0.7	8	6	3250	2.55	20
E899560		1.71	0.051	10.7	6.82	<5	1530	1.7	<2	3.13	1.1	23	119	6960	5.82	20
E899561		3.23	0.034	19.5	8.18	<5	1840	1.7	5	2.03	0.8	11	15	8210	3.03	20
E899562		2.85	0.011	2.1	7.43	5	1740	1.4	<2	1.42	<0.5	7	5	2780	2.09	20
E899563		3.33	0.033	4.1	7.17	<5	2060	1.5	4	1.22	<0.5	8	13	2130	2.47	20
E899564		3.51	0.171	9.5	8.23	<5	1440	1.4	26	2.91	1.6	15	5	6250	4.25	20
E899565		2.42	<0.005	<0.5	8.69	7	930	1.6	<2	4.47	0.5	15	8	33	5.31	30
E899566		3.12	<0.005	<0.5	8.06	7	980	1.4	<2	3.77	<0.5	11	6	71	3.84	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899501		1.95	10	1.14	774	<1	4.00	4	1300	5	0.01	<5	4	1405	<20	0.37
E899502		1.81	10	2.06	2420	6	2.91	24	2900	12	0.02	<5	13	946	<20	0.47
E899503		1.83	10	2.21	2910	1	2.67	23	2950	12	0.01	<5	16	912	<20	0.49
E899504		2.15	10	1.77	3250	3	3.05	19	2570	8	0.04	<5	12	977	<20	0.42
E899505		1.88	<10	0.73	668	<1	4.03	8	1260	4	<0.01	<5	4	1230	<20	0.21
E899506		1.22	10	0.68	659	<1	4.41	<1	1130	2	0.03	5	6	1375	<20	0.33
E899507		1.30	10	1.27	1050	<1	3.84	20	1260	10	0.02	<5	12	956	<20	0.36
E899508		1.49	10	1.49	1235	<1	3.95	14	2080	9	0.01	<5	10	1375	<20	0.38
E899509		1.55	10	1.70	1430	<1	3.66	23	2280	6	0.02	<5	11	1310	<20	0.38
E899510		1.36	10	2.24	2110	<1	3.06	24	1840	5	0.05	<5	20	1335	<20	0.44
E899511		1.27	10	1.43	830	1	3.70	29	800	2	0.49	<5	17	1260	<20	0.32
E899512		1.31	10	1.55	1585	2	3.50	19	2300	10	0.02	<5	14	935	<20	0.36
E899513		1.31	10	1.89	2020	6	3.33	27	2240	12	0.06	<5	14	1000	<20	0.45
E899514		1.21	<10	1.69	1685	2	4.12	18	2170	5	0.01	7	12	1615	<20	0.33
E899515		1.57	10	1.83	1845	8	3.52	21	2770	7	0.01	<5	13	1010	<20	0.46
E899516		1.77	10	1.02	525	<1	4.45	2	1350	2	0.01	<5	2	1510	<20	0.41
E899517		1.12	<10	0.64	500	<1	4.85	1	800	4	<0.01	<5	6	1600	<20	0.27
E899518		1.74	<10	0.53	461	<1	4.60	1	750	4	0.01	<5	5	988	<20	0.22
E899519		1.52	10	2.51	1060	1	3.07	5	1620	3	0.01	<5	24	850	<20	0.79
E899520		0.60	10	0.18	667	17	2.69	2	960	7	0.05	<5	5	323	<20	0.26
E899521		1.09	10	0.22	622	12	2.44	1	1080	19	0.04	<5	6	286	<20	0.28
E899522		1.18	10	0.53	586	7	3.24	1	1330	16	0.02	<5	6	341	<20	0.35
E899523		1.50	10	0.79	771	8	3.46	3	1530	7	0.01	<5	7	707	<20	0.39
E899524		0.85	<10	0.35	542	5	4.44	<1	990	2	0.02	<5	5	822	<20	0.28
E899551		1.27	10	0.83	648	<1	3.76	3	870	6	<0.01	<5	7	948	<20	0.25
E899552		1.12	10	1.14	803	<1	4.24	3	1190	5	<0.01	<5	10	1220	<20	0.34
E899553		1.03	10	0.94	740	<1	3.86	2	1060	10	<0.01	<5	8	1090	<20	0.29
E899554		0.99	10	0.83	691	<1	3.57	1	950	10	<0.01	<5	8	856	<20	0.27
E899555		1.45	20	1.08	729	1	3.36	1	1420	10	0.01	<5	8	950	<20	0.32
E899556		1.48	10	0.98	671	1	3.61	1	1390	9	0.01	<5	7	1110	<20	0.32
E899557		1.65	20	0.73	396	3	3.58	1	1230	9	<0.01	<5	3	779	<20	0.26
E899558		2.93	20	0.57	350	<1	2.93	1	1120	8	0.01	<5	4	763	<20	0.19
E899559		2.80	20	0.66	433	2	3.09	1	1150	9	0.01	<5	5	904	<20	0.21
E899560		1.93	20	2.69	1140	28	2.19	21	1820	8	0.02	<5	21	723	<20	0.36
E899561		2.49	20	0.97	567	4	3.61	4	2290	9	0.06	<5	7	1075	<20	0.27
E899562		2.73	20	0.54	423	<1	3.22	<1	760	5	<0.01	<5	5	747	<20	0.18
E899563		2.35	10	0.66	489	1	3.28	3	770	7	<0.01	<5	6	659	<20	0.20
E899564		1.83	20	1.14	750	2	3.46	2	1530	13	<0.01	<5	9	946	<20	0.34
E899565		1.04	20	1.69	1060	<1	3.72	4	1720	6	<0.01	<5	14	1255	<20	0.45
E899566		1.22	10	1.13	807	<1	4.05	2	1230	6	<0.01	11	9	1130	<20	0.33

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA05	Cu- AA62
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899501		<10	<10	114	<10	160		0.008	0.020
E899502		<10	<10	256	<10	733		0.026	0.083
E899503		<10	<10	273	<10	877		0.027	0.065
E899504		10	10	213	<10	1090		0.031	0.081
E899505		<10	<10	74	<10	174		0.002	0.004
E899506		<10	<10	94	<10	104		0.023	0.038
E899507		<10	<10	127	<10	176		0.036	0.072
E899508		<10	<10	166	<10	188		0.025	0.062
E899509		10	<10	173	<10	248		0.041	0.082
E899510		<10	<10	255	<10	373		0.111	0.161
E899511		<10	<10	179	<10	152		0.037	0.110
E899512		<10	<10	212	<10	268		0.034	0.063
E899513		<10	<10	218	<10	392		0.025	0.071
E899514		<10	10	166	<10	345		0.045	0.084
E899515		<10	<10	215	<10	288		0.062	0.113
E899516		10	<10	124	<10	96		0.020	0.029
E899517		<10	<10	89	<10	74		0.019	0.026
E899518		<10	<10	72	<10	44		0.001	0.001
E899519		<10	<10	298	<10	104		0.069	0.122
E899520		<10	10	98	<10	63		0.059	0.113
E899521		10	<10	101	<10	64		0.163	0.211
E899522		<10	<10	125	<10	96		0.007	0.016
E899523		10	<10	163	<10	114		0.023	0.041
E899524		<10	<10	85	<10	50		0.034	0.051
E899551		<10	<10	83	<10	60		0.004	0.007
E899552		<10	<10	118	<10	76		0.006	0.009
E899553		<10	<10	105	<10	70		0.012	0.021
E899554		<10	<10	92	<10	63		0.004	0.006
E899555		<10	<10	113	<10	74		0.435	0.509
E899556		<10	<10	108	<10	69		0.516	0.581
E899557		<10	<10	85	<10	54	1.035	0.987	1.100
E899558		<10	<10	63	10	37		0.246	0.308
E899559		<10	<10	80	10	45		0.294	0.333
E899560		<10	<10	218	20	111		0.621	0.684
E899561		<10	<10	105	10	58		0.681	0.812
E899562		<10	<10	58	10	34		0.242	0.288
E899563		<10	<10	72	<10	46		0.190	0.213
E899564		<10	<10	133	<10	84		0.584	0.606
E899565		<10	<10	150	<10	105		0.003	0.003
E899566		<10	<10	109	<10	83		0.005	0.006

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899567		2.89	<0.005	<0.5	8.46	5	1220	1.4	<2	3.09	<0.5	10	5	36	3.58	20
E899568		3.08	<0.005	<0.5	7.56	<5	1030	1.1	<2	3.70	<0.5	8	5	17	3.04	20
E899569		2.75	<0.005	<0.5	8.58	5	1120	1.8	<2	2.70	<0.5	9	5	68	3.21	20
E899570		3.16	<0.005	<0.5	7.77	<5	1270	1.8	3	3.09	0.5	7	6	47	3.23	20
E899571		3.00	<0.005	<0.5	8.80	5	1030	2.1	<2	4.83	<0.5	15	9	7	5.45	30
E899572		3.32	<0.005	<0.5	8.39	7	1380	2.1	<2	3.49	0.6	10	11	120	3.61	20
E899573		3.58	0.077	8.0	7.04	5	1010	2.3	13	3.69	1.2	27	116	6700	6.48	20
E899574		3.03	0.230	43.6	6.80	<5	1790	1.8	14	2.66	1.0	22	39	7360	4.53	20
E899575		3.14	0.106	67.6	9.42	<5	1890	1.7	<2	2.26	1.1	10	4	7180	3.04	20
E899576		2.98	0.023	9.2	9.01	6	2030	1.6	<2	1.72	0.7	12	5	2610	3.06	20
E899577		3.21	0.122	6.9	7.94	<5	2220	1.5	<2	1.64	1.5	13	7	4190	3.13	20
E899578		2.97	0.010	5.5	6.35	<5	1570	0.9	2	1.62	0.9	2	3	1000	1.23	10
E899579		3.32	0.541	24.1	7.96	<5	1000	1.5	45	4.07	0.9	12	4	7400	4.79	30
E899580		0.77	0.065	5.3	7.84	6	790	1.8	2	7.21	0.9	8	5	1540	4.27	30
E899581		3.18	<0.005	0.7	7.70	5	1110	1.4	<2	2.66	0.8	9	6	480	3.06	20
E899582		3.98	<0.005	<0.5	7.64	<5	2270	1.3	<2	1.89	<0.5	5	5	219	2.12	20
E899583		2.42	<0.005	<0.5	7.78	<5	1900	1.3	<2	1.93	<0.5	6	6	45	2.30	20
E899584		3.07	<0.005	<0.5	8.35	<5	1250	1.4	<2	3.01	0.5	8	7	37	3.07	20
E899585		3.02	<0.005	<0.5	7.99	5	1280	1.7	<2	4.49	<0.5	11	7	70	4.22	30
E899586		3.55	<0.005	<0.5	9.47	<5	1290	1.7	<2	3.57	0.5	14	8	158	4.66	20
E899587		3.35	<0.005	<0.5	9.69	<5	1470	1.8	<2	4.26	0.5	15	8	80	5.10	30
E899588		3.27	<0.005	<0.5	9.17	6	1140	1.7	<2	4.38	<0.5	14	7	104	4.63	30
E899589		2.73	<0.005	<0.5	8.96	<5	1200	1.7	<2	4.30	0.5	15	9	10	5.22	30
E899590		2.85	<0.005	<0.5	8.70	<5	1230	1.6	<2	4.24	0.5	12	8	7	4.28	30
E899591		3.26	0.015	<0.5	7.83	<5	790	1.6	<2	4.19	<0.5	13	8	138	4.55	30
E899592		3.60	<0.005	<0.5	8.98	<5	1070	1.7	<2	3.77	<0.5	11	8	33	3.82	20
E899593		3.15	<0.005	<0.5	9.23	<5	900	1.8	<2	4.06	<0.5	13	9	118	4.79	30
E899594		3.69	<0.005	<0.5	8.92	<5	1020	1.7	<2	3.73	<0.5	13	8	83	4.21	30
E899595		1.84	<0.005	<0.5	8.93	<5	990	1.8	<2	3.10	<0.5	9	7	265	3.24	30
E899596		2.97	0.014	<0.5	9.15	<5	1050	1.5	<2	2.97	<0.5	10	8	2590	3.70	20
E899597		3.26	0.006	<0.5	8.79	<5	940	1.6	<2	3.05	<0.5	13	8	1210	3.87	30
E899598		0.15	0.638	10.1	8.32	<5	1400	1.1	18	1.87	<0.5	9	28	>10000	3.23	20
E899599		0.15	0.464	3.9	8.65	<5	1560	1.4	<2	2.50	<0.5	11	21	9340	3.74	20
E899600		0.15	<0.005	<0.5	9.15	<5	1010	1.5	<2	3.30	<0.5	8	20	105	3.23	20
E899601		1.51	<0.005	<0.5	9.58	<5	1020	1.8	<2	3.73	<0.5	15	6	1200	4.44	30
E899602		3.04	0.031	3.0	9.44	<5	1340	1.8	<2	3.63	<0.5	15	6	1800	4.60	30
E899603		3.64	0.016	0.9	8.59	<5	940	1.5	<2	3.21	<0.5	14	7	2280	4.80	30
E899604		3.34	0.023	0.6	8.27	<5	610	1.8	<2	8.40	1.0	28	281	4770	7.98	30
E899605		3.32	0.008	0.9	8.09	<5	1130	1.6	<2	3.48	0.7	16	9	2700	5.04	20
E899606		1.76	0.012	1.5	8.64	<5	730	1.5	<2	3.31	0.5	17	9	1850	4.51	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899567		1.30	10	1.06	756	<1	4.03	1	1090	3	<0.01	<5	9	1035	<20	0.31
E899568		1.10	10	0.87	674	<1	3.85	2	890	6	0.01	<5	7	782	<20	0.26
E899569		1.20	10	0.97	676	<1	4.22	2	940	5	<0.01	<5	9	842	<20	0.28
E899570		1.37	10	0.90	665	<1	3.61	2	940	10	<0.01	<5	8	1060	<20	0.26
E899571		0.91	20	1.67	1090	<1	3.92	4	1660	6	<0.01	<5	14	1270	<20	0.47
E899572		1.08	10	1.12	756	<1	3.89	2	1060	5	<0.01	<5	10	1255	<20	0.29
E899573		1.57	20	3.59	1495	10	1.99	22	1610	5	0.02	<5	31	735	<20	0.46
E899574		2.20	30	1.67	787	25	2.48	13	4660	14	0.01	5	11	713	<20	0.37
E899575		1.77	10	0.83	473	4	4.39	<1	1410	12	0.01	<5	7	1335	<20	0.27
E899576		2.21	20	0.90	557	4	4.15	1	1320	8	<0.01	<5	9	997	<20	0.29
E899577		2.57	20	0.94	784	5	3.44	4	1270	12	<0.01	<5	6	683	<20	0.26
E899578		2.69	10	0.24	238	1	3.20	<1	280	8	0.01	<5	2	316	<20	0.08
E899579		1.37	10	0.81	656	3	2.71	2	1380	11	<0.01	7	9	1580	<20	0.30
E899580		1.52	20	0.53	645	1	2.00	1	1290	11	0.01	5	8	1380	<20	0.31
E899581		1.32	10	0.92	585	<1	3.52	1	940	5	<0.01	<5	8	767	<20	0.27
E899582		2.32	10	0.65	455	<1	3.60	<1	600	8	<0.01	<5	5	657	<20	0.18
E899583		2.06	10	0.68	459	<1	3.61	1	670	7	<0.01	<5	6	781	<20	0.21
E899584		1.37	10	0.94	643	<1	4.11	1	930	3	<0.01	5	8	1015	<20	0.27
E899585		1.47	10	1.13	863	<1	3.66	3	1330	8	<0.01	<5	10	1580	<20	0.36
E899586		1.35	10	1.64	939	<1	4.36	2	1550	12	<0.01	<5	14	1385	<20	0.42
E899587		1.44	10	1.60	988	<1	4.19	2	1660	9	<0.01	<5	13	1500	<20	0.45
E899588		1.00	10	1.48	925	<1	4.27	2	1490	8	<0.01	<5	11	1520	<20	0.41
E899589		1.07	20	1.62	1075	<1	3.93	5	1710	7	<0.01	<5	14	1630	<20	0.45
E899590		0.77	10	1.31	900	<1	4.01	3	1400	4	<0.01	<5	11	1875	<20	0.38
E899591		0.74	10	1.38	963	<1	4.07	1	1510	3	<0.01	<5	12	1475	<20	0.41
E899592		0.94	10	1.16	775	<1	4.28	1	1230	5	<0.01	<5	10	1415	<20	0.34
E899593		0.86	20	1.53	973	<1	4.36	2	1540	6	<0.01	<5	13	1350	<20	0.42
E899594		1.00	10	1.32	836	<1	4.15	<1	1360	4	<0.01	<5	11	1410	<20	0.37
E899595		1.43	10	0.93	620	<1	4.25	1	950	6	<0.01	<5	8	1225	<20	0.27
E899596		1.00	10	1.02	654	<1	4.64	<1	1230	3	0.03	<5	11	1300	<20	0.32
E899597		1.15	10	1.23	727	<1	4.43	1	1340	<2	<0.01	<5	11	1355	<20	0.34
E899598		1.63	10	0.89	379	66	3.51	11	1040	5	0.08	<5	7	960	<20	0.29
E899599		1.30	10	0.99	668	9	4.23	6	1310	6	0.03	<5	7	1260	<20	0.30
E899600		0.91	<10	0.66	697	2	4.84	5	950	10	0.01	<5	7	1535	<20	0.23
E899601		1.06	20	1.34	813	<1	4.26	<1	1590	2	0.01	<5	13	1525	<20	0.36
E899602		1.26	10	1.38	785	<1	4.01	<1	1730	3	<0.01	<5	11	1500	<20	0.36
E899603		0.94	10	1.36	728	<1	3.78	<1	1830	6	<0.01	<5	6	1435	<20	0.38
E899604		0.43	30	3.46	1620	<1	1.90	50	3450	3	0.02	<5	31	2520	<20	0.51
E899605		1.24	10	1.54	901	<1	3.50	1	2340	5	0.01	<5	13	1080	<20	0.43
E899606		0.98	10	1.45	800	<1	4.23	1	1790	<2	<0.01	<5	11	1070	<20	0.40

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA05	Cu- AA62
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899567		<10	<10	100	<10	76		0.003	0.003
E899568		<10	<10	88	<10	64		0.001	0.001
E899569		<10	<10	89	<10	62		0.004	0.007
E899570		<10	<10	92	<10	61		0.004	0.004
E899571		<10	<10	158	<10	96		0.001	<0.001
E899572		<10	<10	104	<10	69		0.008	0.011
E899573		<10	<10	271	<10	143		0.616	0.636
E899574		<10	<10	154	<10	91		0.634	0.705
E899575		<10	<10	94	<10	61		0.663	0.697
E899576		<10	<10	97	<10	61		0.214	0.249
E899577		<10	<10	83	10	71		0.372	0.393
E899578		<10	<10	32	10	18		0.096	0.099
E899579		<10	<10	161	10	59		0.671	0.717
E899580		<10	<10	132	10	38		0.136	0.145
E899581		<10	<10	89	<10	72		0.035	0.047
E899582		<10	<10	55	<10	50		0.017	0.022
E899583		<10	<10	65	<10	51		0.002	0.004
E899584		<10	<10	84	<10	67		0.002	0.004
E899585		<10	<10	128	<10	82		0.003	0.006
E899586		<10	<10	135	<10	104		0.005	0.015
E899587		<10	<10	153	<10	101		0.003	0.007
E899588		<10	<10	142	<10	94		0.005	0.009
E899589		<10	<10	164	<10	106		<0.001	<0.001
E899590		<10	<10	132	<10	86		<0.001	<0.001
E899591		<10	<10	145	<10	95		0.010	0.013
E899592		<10	<10	114	<10	85		0.001	0.002
E899593		<10	<10	145	<10	102		0.004	0.011
E899594		<10	<10	130	<10	89		0.004	0.008
E899595		<10	<10	99	<10	66		0.019	0.024
E899596		<10	<10	112	<10	69		0.216	0.255
E899597		<10	<10	125	<10	87		0.105	0.116
E899598		<10	<10	104	20	72	1.715	1.500	1.709
E899599		10	<10	108	<10	77		0.777	0.914
E899600		<10	<10	88	<10	63		0.008	0.009
E899601		<10	<10	142	<10	96		0.089	0.115
E899602		<10	<10	147	<10	106		0.153	0.170
E899603		<10	<10	172	<10	105		0.194	0.219
E899604		<10	<10	257	<10	146		0.402	0.441
E899605		<10	<10	161	<10	118		0.212	0.269
E899606		<10	<10	144	<10	106		0.138	0.179

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899607		1.15	0.350	30.7	8.62	6	470	1.8	62	5.22	0.7	19	9	>10000	5.75	40
E899608		3.53	<0.005	0.7	8.81	<5	1200	1.8	<2	3.74	<0.5	12	7	394	3.73	30
E899609		3.35	0.007	<0.5	8.55	<5	1160	1.6	<2	3.87	<0.5	15	9	971	5.11	30
E899610		2.97	0.011	<0.5	8.02	<5	1270	1.6	<2	3.77	<0.5	11	8	424	3.72	20
E899611		3.69	<0.005	<0.5	8.98	<5	1350	1.7	<2	4.45	<0.5	14	10	275	5.55	30
E899612		3.18	<0.005	<0.5	8.97	<5	1310	1.5	<2	3.98	<0.5	12	6	545	3.93	30
E899613		3.33	0.031	<0.5	8.93	<5	900	1.4	<2	4.18	<0.5	11	7	330	3.93	30
E899614		3.14	0.351	<0.5	8.19	<5	290	1.1	<2	5.47	<0.5	7	6	56	3.47	30
E899615		3.55	0.007	<0.5	8.87	<5	780	1.5	<2	3.46	<0.5	13	7	1110	4.22	30
E899616		3.31	<0.005	0.6	9.00	<5	970	1.3	<2	2.74	<0.5	14	7	1020	3.87	20
E899617		3.60	<0.005	<0.5	7.77	<5	1180	0.9	<2	2.82	<0.5	5	6	270	2.50	20
E899618		2.59	<0.005	1.1	6.21	<5	1090	0.6	<2	1.65	<0.5	1	5	43	1.16	10
E899619		3.25	<0.005	6.1	8.47	<5	750	1.0	<2	3.32	<0.5	22	19	2360	5.45	30
E899620		1.44	<0.005	3.2	8.94	<5	680	1.0	<2	4.45	<0.5	11	7	962	3.76	30
E899621		3.30	0.048	1.4	7.99	<5	510	0.7	<2	4.39	<0.5	5	7	216	2.96	20
E899622		3.47	<0.005	<0.5	6.96	<5	790	0.6	<2	3.46	<0.5	4	7	139	2.37	20
E899623		3.23	<0.005	<0.5	8.94	<5	1020	1.5	<2	2.66	<0.5	13	7	160	4.09	20
E899624		3.25	<0.005	0.5	8.97	<5	770	1.5	<2	3.76	0.5	11	7	730	3.93	30
E899625		3.34	<0.005	1.4	8.77	<5	1090	1.7	<2	3.47	<0.5	16	9	1500	4.68	30
E899626		3.05	<0.005	<0.5	8.81	<5	1080	1.7	<2	5.06	<0.5	12	8	167	4.73	30
E899627		3.03	<0.005	<0.5	9.50	<5	1770	1.4	<2	3.33	<0.5	7	5	15	2.73	20
E899628		3.33	<0.005	<0.5	8.71	<5	1170	1.5	<2	4.17	<0.5	13	8	12	4.64	30
E899629		3.50	<0.005	<0.5	9.30	5	1120	1.7	<2	3.74	<0.5	10	6	105	3.84	30
E899630		3.43	<0.005	<0.5	8.58	<5	1340	1.5	<2	3.32	<0.5	10	7	30	3.45	20
E899631		2.91	<0.005	<0.5	8.93	<5	910	1.6	<2	4.48	<0.5	13	8	134	4.54	30
E899632		3.26	<0.005	<0.5	9.15	<5	820	1.6	<2	3.65	<0.5	10	6	67	3.63	30
E899633		3.25	<0.005	<0.5	8.90	<5	1120	1.7	<2	3.94	<0.5	12	6	27	4.00	30
E899634		3.20	0.009	<0.5	8.50	<5	1100	1.5	<2	2.58	<0.5	8	7	35	2.95	20
E899635		2.94	0.005	<0.5	8.67	<5	1120	1.6	<2	2.65	<0.5	10	7	136	3.20	20
E899636		3.22	0.120	<0.5	8.60	<5	1120	1.5	<2	3.60	<0.5	7	7	114	3.14	20
E899637		3.03	<0.005	<0.5	9.37	<5	1310	1.7	<2	3.91	<0.5	12	8	45	4.10	30
E899638		3.41	<0.005	<0.5	9.52	<5	860	1.7	<2	4.28	<0.5	11	7	10	4.13	30
E899639		2.88	<0.005	<0.5	9.06	<5	1230	1.7	<2	4.34	<0.5	18	10	282	5.88	30
E899640		1.06	<0.005	<0.5	8.82	<5	1600	1.4	<2	3.21	0.5	9	6	225	3.14	20
E899641		3.15	0.008	0.5	8.96	<5	1240	1.4	<2	3.12	<0.5	12	7	873	3.58	20
E899642		3.14	0.085	<0.5	8.72	<5	1450	1.7	<2	4.27	<0.5	11	7	90	4.38	30
E899643		2.81	<0.005	<0.5	9.39	<5	1100	1.8	<2	4.11	<0.5	16	9	562	5.35	30
E899644		2.97	<0.005	<0.5	9.41	<5	820	1.3	<2	5.22	0.6	12	7	402	4.62	30
E899645		2.98	<0.005	<0.5	9.17	<5	1120	1.5	<2	3.57	<0.5	16	9	818	5.01	30
E899646		2.92	0.006	<0.5	7.76	<5	1020	1.3	<2	2.18	<0.5	7	5	289	2.08	20

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899607		0.76	20	1.24	859	3	2.11	3	2260	10	<0.01	<5	9	1545	<20	0.52
E899608		1.37	10	0.98	690	<1	3.99	1	1150	7	<0.01	<5	11	1315	<20	0.31
E899609		1.33	10	1.50	954	<1	3.62	3	1830	4	<0.01	<5	14	1330	<20	0.48
E899610		1.69	10	1.00	771	<1	3.66	<1	1210	5	<0.01	<5	10	1200	<20	0.30
E899611		1.57	10	1.59	1050	<1	3.95	3	1910	8	0.01	<5	15	1315	<20	0.50
E899612		1.61	10	1.04	744	<1	4.03	1	1170	5	0.02	<5	9	1625	<20	0.31
E899613		1.22	10	0.94	698	<1	3.89	2	1220	<2	0.01	<5	10	1525	<20	0.32
E899614		0.62	10	0.43	601	<1	3.87	<1	970	4	<0.01	<5	7	1670	<20	0.27
E899615		1.14	10	1.34	773	<1	4.08	1	1320	2	0.02	<5	11	1230	<20	0.35
E899616		1.43	10	1.39	759	<1	4.39	1	1300	3	0.04	<5	12	1055	<20	0.36
E899617		2.19	10	0.54	464	<1	3.42	<1	570	3	0.02	<5	6	924	<20	0.18
E899618		2.76	<10	0.09	186	<1	2.86	<1	110	3	<0.01	<5	1	446	<20	0.04
E899619		1.19	10	2.10	1060	<1	3.74	7	1800	2	0.05	<5	16	1085	<20	0.59
E899620		1.19	10	0.91	686	<1	4.33	1	1090	<2	0.06	<5	9	1380	<20	0.30
E899621		1.20	10	0.43	500	<1	3.91	1	970	4	0.01	<5	7	1385	<20	0.27
E899622		1.67	10	0.30	365	<1	3.11	<1	540	4	0.01	<5	5	1125	<20	0.16
E899623		1.41	10	1.31	758	<1	4.33	1	1350	4	<0.01	<5	9	1325	<20	0.35
E899624		1.08	10	1.21	757	<1	4.27	1	1400	4	<0.01	<5	11	1475	<20	0.37
E899625		1.21	10	1.56	856	<1	4.00	2	1670	4	<0.01	<5	10	1385	<20	0.47
E899626		1.22	10	1.22	902	<1	3.64	2	1460	4	<0.01	<5	10	2150	<20	0.39
E899627		1.24	10	0.75	503	<1	4.69	<1	1210	5	<0.01	<5	6	2160	<20	0.28
E899628		1.03	10	1.41	901	<1	3.99	2	1520	5	<0.01	<5	11	1510	<20	0.40
E899629		1.18	10	1.17	773	<1	4.39	<1	1180	4	<0.01	<5	10	1545	<20	0.32
E899630		1.33	10	1.05	701	<1	4.12	1	1090	6	<0.01	<5	9	1185	<20	0.29
E899631		1.07	10	1.32	921	<1	4.03	1	1430	3	<0.01	<5	11	1495	<20	0.39
E899632		0.95	10	1.09	712	<1	4.26	2	1090	5	<0.01	<5	10	1315	<20	0.32
E899633		1.22	10	1.20	809	<1	4.19	<1	1270	3	<0.01	<5	10	1365	<20	0.34
E899634		1.76	10	0.90	591	<1	4.12	1	920	8	<0.01	<5	7	1010	<20	0.25
E899635		1.34	10	1.02	667	<1	4.23	<1	1030	4	<0.01	<5	8	1100	<20	0.28
E899636		1.56	10	0.68	611	<1	3.97	<1	870	10	<0.01	<5	8	1505	<20	0.27
E899637		1.34	10	1.26	864	<1	4.43	1	1290	4	<0.01	<5	10	1380	<20	0.35
E899638		0.86	10	1.19	804	<1	4.45	1	1250	7	<0.01	<5	10	1590	<20	0.34
E899639		1.02	10	1.76	1135	<1	4.01	3	2030	5	<0.01	<5	14	1565	<20	0.51
E899640		1.59	10	0.83	627	<1	3.85	<1	820	6	<0.01	<5	8	1315	<20	0.24
E899641		1.31	20	1.15	711	<1	4.41	1	1290	5	<0.01	<5	10	1265	<20	0.35
E899642		1.32	10	1.22	865	<1	3.86	<1	1380	<2	<0.01	<5	11	1495	<20	0.35
E899643		1.09	10	1.74	1090	<1	4.28	2	1570	3	<0.01	<5	15	1395	<20	0.46
E899644		0.98	10	1.07	894	<1	4.16	3	1330	6	0.01	<5	10	2140	<20	0.37
E899645		1.26	20	1.59	978	<1	4.23	2	1850	5	<0.01	<5	13	1490	<20	0.48
E899646		1.77	10	0.52	473	<1	4.00	<1	510	6	<0.01	<5	4	818	<20	0.17

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA05	Cu- AA62
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899607		<10	<10	212	<10	89	1.980	1.835	2.000
E899608		<10	<10	120	<10	80		0.026	0.040
E899609		10	<10	160	<10	118		0.061	0.092
E899610		<10	<10	118	<10	82		0.030	0.042
E899611		<10	<10	174	<10	120		0.011	0.025
E899612		<10	<10	123	<10	84		0.025	0.054
E899613		<10	<10	134	<10	75		0.015	0.032
E899614		<10	<10	123	<10	33		0.003	0.005
E899615		<10	<10	121	<10	96		0.074	0.107
E899616		<10	<10	113	<10	100		0.055	0.100
E899617		<10	<10	77	<10	39		0.011	0.026
E899618		<10	<10	33	<10	6		0.003	0.004
E899619		<10	<10	169	<10	148		0.154	0.225
E899620		<10	<10	121	<10	66		0.021	0.092
E899621		10	<10	100	<10	31		0.011	0.020
E899622		<10	<10	74	<10	21		0.007	0.013
E899623		<10	<10	121	<10	94		0.007	0.015
E899624		<10	<10	123	<10	85		0.056	0.073
E899625		<10	<10	152	<10	118		0.117	0.146
E899626		<10	<10	147	<10	94		0.009	0.015
E899627		<10	<10	81	<10	56		0.001	<0.001
E899628		<10	<10	139	<10	96		<0.001	<0.001
E899629		<10	<10	113	<10	89		0.005	0.009
E899630		<10	<10	101	<10	77		0.001	0.002
E899631		<10	<10	141	<10	94		0.007	0.012
E899632		<10	<10	109	<10	73		0.003	0.006
E899633		<10	<10	123	<10	86		0.001	0.002
E899634		<10	<10	87	<10	64		0.002	0.002
E899635		10	<10	96	<10	71		0.005	0.015
E899636		10	<10	99	<10	51		0.003	0.011
E899637		<10	<10	124	<10	87		0.001	0.004
E899638		<10	<10	126	<10	80		<0.001	0.001
E899639		<10	<10	179	<10	118		0.014	0.027
E899640		<10	<10	97	<10	57		0.013	0.022
E899641		<10	<10	117	<10	79		0.064	0.085
E899642		<10	<10	141	<10	78		0.004	0.009
E899643		<10	<10	170	<10	108		0.035	0.054
E899644		<10	<10	163	<10	77		0.026	0.039
E899645		<10	<10	163	<10	108		0.048	0.077
E899646		<10	<10	63	<10	38		0.012	0.029

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899647		1.01	<0.005	<0.5	9.24	<5	1230	1.9	<2	4.64	0.5	14	5	404	5.31	30
E899648		0.14	0.628	10.4	8.42	<5	1450	1.2	14	1.90	0.5	10	28	>10000	3.29	20
E899649		0.14	0.432	3.8	9.08	<5	1570	1.4	<2	2.54	<0.5	11	21	9170	3.80	20
E899650		0.14	<0.005	<0.5	9.05	<5	970	1.4	<2	3.25	<0.5	7	21	102	3.14	20
E899651		1.96	0.006	0.6	7.81	<5	470	1.9	<2	8.63	0.9	29	99	1210	8.95	20
E899652		1.42	0.049	13.9	8.64	9	160	2.5	10	10.05	1.1	33	146	>10000	11.10	40
E899653		3.41	0.026	3.3	9.74	<5	1220	1.5	<2	4.46	<0.5	17	7	4520	5.39	30
E899654		3.34	0.028	2.8	9.08	<5	1210	1.4	<2	3.87	<0.5	18	9	3360	5.79	30
E899655		3.12	0.036	4.6	8.84	<5	1130	1.5	<2	4.23	<0.5	24	8	3220	6.55	30
E899656		3.42	0.042	8.3	9.21	<5	960	1.6	<2	3.78	<0.5	20	7	4660	5.08	30
E899657		3.38	0.115	5.1	9.19	<5	760	1.3	<2	4.24	0.8	19	5	5010	5.36	30
E899658		3.75	0.047	2.6	9.62	<5	810	1.5	<2	5.34	<0.5	17	5	2310	5.49	30
E899659		2.57	0.023	3.4	9.12	<5	1190	1.8	<2	4.55	<0.5	22	7	5380	6.72	30
E899660		1.63	0.011	2.6	8.68	<5	560	1.3	<2	4.82	<0.5	17	6	4590	5.47	30
E899661		3.43	0.054	3.7	9.21	<5	790	1.4	<2	4.16	0.6	28	7	7710	6.78	30
E899662		3.17	0.037	4.9	9.12	<5	810	1.5	2	3.44	0.5	20	4	5280	4.70	30
E899663		3.20	0.093	6.5	9.14	<5	520	1.2	<2	3.74	<0.5	23	5	7340	5.28	30
E899664		3.08	0.079	5.6	8.98	<5	950	1.6	4	3.05	0.8	29	7	7860	6.32	30
E899665		3.43	0.130	21.6	9.35	<5	1100	1.3	16	8.37	1.1	20	6	7060	6.19	40
E899666		2.87	0.182	<0.5	8.85	<5	610	1.7	<2	6.21	2.8	13	6	187	4.90	30
E899667		2.84	<0.005	<0.5	8.50	<5	1040	1.2	<2	3.23	2.0	11	6	183	3.69	20
E899668		2.76	<0.005	<0.5	9.67	5	950	1.6	<2	3.75	<0.5	14	11	277	4.32	30
E899669		3.37	<0.005	<0.5	9.60	<5	1040	1.6	<2	4.53	<0.5	13	7	79	4.45	30

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899647		1.23	10	1.48	933	1	4.12	3	2070	5	0.01	<5	14	1260	<20	0.42
E899648		1.69	10	0.90	385	66	3.54	10	1070	7	0.09	<5	7	986	<20	0.29
E899649		1.32	10	1.00	664	9	4.20	6	1290	6	0.03	<5	7	1295	<20	0.30
E899650		0.87	<10	0.65	667	2	4.65	5	910	9	0.01	<5	7	1485	<20	0.22
E899651		0.71	20	3.48	1695	3	2.41	26	1720	3	<0.01	<5	37	1170	<20	0.46
E899652		0.30	20	3.27	1795	2	1.13	26	4930	14	0.01	<5	42	2840	<20	0.66
E899653		1.17	10	1.47	873	<1	4.24	2	2880	4	0.02	<5	11	1885	<20	0.46
E899654		1.37	10	1.68	916	<1	3.78	3	2810	3	<0.01	<5	11	1600	<20	0.50
E899655		1.39	20	2.00	1075	<1	3.56	3	2840	<2	<0.01	<5	15	1395	<20	0.58
E899656		1.20	20	1.63	922	1	4.11	2	2180	6	<0.01	<5	12	1345	<20	0.47
E899657		1.15	20	1.44	870	<1	3.74	2	2130	6	<0.01	<5	11	1690	<20	0.45
E899658		1.17	20	1.32	913	<1	3.77	2	1900	4	<0.01	<5	12	2090	<20	0.43
E899659		1.35	20	1.91	1060	<1	3.73	2	2860	6	0.01	<5	20	1510	<20	0.60
E899660		0.86	20	1.36	927	1	3.61	3	2190	5	<0.01	<5	14	1885	<20	0.48
E899661		1.06	40	2.08	1050	27	3.57	10	2780	10	0.01	<5	13	1595	20	0.64
E899662		1.14	20	1.41	865	7	4.13	2	1950	3	<0.01	<5	7	1460	<20	0.43
E899663		0.86	30	1.56	864	5	4.11	2	2270	4	0.04	<5	12	1410	<20	0.48
E899664		1.19	30	2.09	904	3	3.96	<1	2700	3	0.32	<5	14	1135	<20	0.58
E899665		0.83	20	1.19	909	1	2.13	1	2250	8	0.32	<5	10	2610	20	0.49
E899666		0.75	10	1.13	847	<1	2.55	2	1460	18	<0.01	<5	11	1925	<20	0.40
E899667		1.23	10	1.23	758	<1	3.87	1	1250	8	0.01	<5	10	1155	<20	0.33
E899668		1.04	10	1.41	861	<1	4.75	<1	1500	8	<0.01	<5	10	1450	<20	0.39
E899669		1.00	10	1.42	884	<1	4.40	1	1700	6	<0.01	<5	12	1735	<20	0.40

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA05	Cu- AA62
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899647		<10	<10	181	<10	101		0.017	0.038
E899648		<10	<10	106	30	78	1.685	1.460	1.700
E899649		<10	<10	109	<10	77		0.773	0.911
E899650		<10	<10	87	<10	60		0.007	0.010
E899651		<10	<10	305	<10	106		0.084	0.111
E899652		<10	<10	437	<10	156	1.115	0.958	1.123
E899653		<10	<10	187	<10	102		0.342	0.419
E899654		<10	<10	202	<10	124		0.264	0.313
E899655		<10	<10	216	<10	151		0.248	0.301
E899656		<10	<10	163	<10	117		0.370	0.430
E899657		<10	<10	181	<10	102		0.417	0.466
E899658		<10	<10	197	<10	95		0.182	0.212
E899659		<10	<10	211	<10	136		0.416	0.488
E899660		<10	<10	173	<10	94		0.391	0.450
E899661		<10	<10	221	<10	139		0.613	0.718
E899662		<10	<10	162	<10	94		0.463	0.523
E899663		<10	<10	172	<10	101		0.602	0.705
E899664		<10	<10	216	<10	127		0.299	0.729
E899665		<10	<10	209	<10	80		0.144	0.661
E899666		<10	<10	143	<10	87		0.010	0.018
E899667		10	<10	107	<10	88		0.008	0.018
E899668		<10	<10	130	<10	101		0.016	0.027
E899669		<10	<10	134	<10	102		0.003	0.007

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To: **COPPER NORTH**
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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14131279

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU- 31	CRU- QC	LOG- 21	LOG- 23
SPL- 21	WEI- 21		

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA23	Cu- AA05	Cu- AA62	Cu- OG62
ME- ICP61	ME- OG62	PUL- 31	PUL- QC

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VANCOUVER BC V6C 3P1

Finalized Date: 22- SEP- 2014
Account: COPNOR

CERTIFICATE WH14136570

Project: Carmacks Copper

P.O. No.: COL- 14- 02

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 10- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
Au- AA23	Au 30g FA- AA finish	AAS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Finalized Date: 22- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136570

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
E899931		2.35	<0.005	<0.5	4.86	<5	310	0.5	<2	9.22	0.6	51	16	118	12.10	20

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Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136570

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899931		0.64	10	6.69	2010	<1	1.06	22	3070	<2	<0.01	<5	55	283	<20	0.76

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 22- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136570

Sample Description	Method Analyte Units LOR	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2
E899931		<10	<10	501	<10	122

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 22- SEP- 2014
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Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136570

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 22	PUL- 31
	PUL- QC	SPL- 21	WEI- 21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au- AA23	ME- ICP61

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

CERTIFICATE WH14136571

Project: Carmacks Copper

P.O. No.: COL- 14- 02

This report is for 73 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
ME- MS41L	51 anal. aqua regia ICPMS	

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	ME- MS41L Au ppm 0.0002	ME- MS41L Ag ppm 0.001	ME- MS41L Al % 0.01	ME- MS41L As ppm 0.01	ME- MS41L B ppm 10	ME- MS41L Ba ppm 0.5	ME- MS41L Be ppm 0.01	ME- MS41L Bi ppm 0.001	ME- MS41L Ca % 0.01	ME- MS41L Cd ppm 0.001	ME- MS41L Ce ppm 0.003	ME- MS41L Co ppm 0.001	ME- MS41L Cr ppm 0.01	ME- MS41L Cs ppm 0.005
AGL- 1		0.13	0.665	7.32	1.38	1.47	<10	291	0.21	15.80	0.37	0.479	18.00	8.01	26.6	0.527
AGL- 2		0.13	0.404	3.30	1.31	1.31	<10	382	0.29	2.12	0.56	0.233	13.80	8.74	20.9	0.255
AGL- 3		0.13	0.0031	0.067	0.90	0.86	<10	72.1	0.30	0.046	0.81	0.038	7.78	4.36	19.60	0.061
L14- 1/50N		0.43	0.0016	0.057	1.48	5.10	<10	209	0.25	0.095	0.75	0.053	19.65	8.36	24.7	0.481
L14- 1/150N		0.33	0.0005	0.021	1.71	6.19	<10	148.0	0.30	0.134	0.34	0.057	19.40	7.62	29.8	0.577
L14- 1/175N		0.40	0.0004	0.040	1.54	2.66	<10	311	0.32	0.146	0.33	0.066	16.20	9.46	21.3	0.364
L14- 1/200N		0.28	0.0004	0.040	1.80	2.68	<10	172.5	0.36	0.134	0.41	0.043	14.70	8.32	20.3	0.488
L14- 1/225N		0.41	0.0008	0.044	1.30	5.79	<10	122.0	0.34	0.126	0.23	0.086	17.25	6.72	27.8	0.609
L14- 1/250N		0.42	0.0011	0.023	1.52	6.19	<10	109.5	0.27	0.135	0.20	0.041	14.90	7.24	27.2	0.499
L14- 1/275N		0.47	0.0007	0.027	1.72	4.08	<10	155.0	0.32	0.092	0.30	0.038	16.05	7.83	21.2	0.557
L14- 1/300N		0.37	0.0002	0.009	1.60	4.01	<10	134.5	0.52	0.064	0.41	0.025	13.60	8.28	14.60	0.371
L14- 1/325N		0.30	0.0007	0.017	1.99	9.07	<10	165.5	0.40	0.108	0.24	0.041	14.50	6.64	28.0	0.665
L14- 1/350N		0.35	0.0009	0.028	1.90	5.79	<10	145.0	0.40	0.134	0.27	0.047	14.95	7.29	25.4	0.583
L14- 1/375N		0.42	0.0014	0.011	1.35	4.76	<10	167.0	0.37	0.099	0.26	0.029	17.55	7.22	24.6	0.571
L14- 1/400N		0.36	0.0004	0.017	1.59	5.41	<10	204	0.35	0.124	0.27	0.057	16.80	8.41	27.3	0.647
L14- 1/425N		0.44	0.0023	0.012	1.92	5.34	<10	152.5	0.46	0.088	0.27	0.033	14.70	8.35	22.9	0.337
L14- 1/450N		0.52	0.0005	0.020	3.25	6.41	<10	282	0.64	0.098	0.50	0.054	15.70	12.70	21.5	0.954
L14- 1/475N		0.42	0.0002	0.018	2.64	8.60	<10	193.5	0.48	0.149	0.29	0.048	15.80	9.37	31.8	0.922
L14- 1/500N		0.43	0.0082	0.023	1.88	7.00	<10	202	0.39	0.144	0.24	0.064	17.35	7.83	30.4	0.771
L14- 2/50N		0.31	0.0003	0.033	2.08	7.70	<10	187.5	0.41	0.151	0.23	0.043	16.95	8.60	36.4	1.005
L14- 2/75N		0.34	0.0002	0.012	2.22	9.13	<10	184.0	0.33	0.134	0.25	0.042	17.00	8.38	33.4	0.803
L14- 2/100N		0.30	0.0027	0.026	2.18	7.12	<10	195.5	0.39	0.165	0.30	0.070	18.55	7.61	28.4	0.814
L14- 2/125N		0.48	<0.0002	0.022	2.89	6.95	<10	243	0.50	0.140	0.59	0.095	15.65	11.10	25.1	0.969
L14- 2/150N		0.39	0.0003	0.024	2.98	12.20	<10	271	0.49	0.163	0.28	0.078	16.85	11.60	35.5	1.015
L14- 2/175N		0.37	0.0004	0.024	1.31	4.38	<10	133.5	0.28	0.101	0.30	0.062	16.45	6.13	21.6	0.537
L14- 2/200N		0.40	0.0005	0.029	1.84	6.27	<10	182.0	0.33	0.141	0.29	0.075	15.35	7.98	28.1	0.710
L14- 2/250N		0.38	0.0164	0.463	2.60	7.11	<10	184.5	0.39	1.195	0.38	0.091	14.45	10.75	26.5	1.030
L14- 2/275N		0.38	0.0138	0.413	1.58	5.58	<10	235	0.34	1.355	0.31	0.139	21.7	7.35	27.4	0.775
L14- 2/300N		0.40	0.0012	0.381	2.09	8.95	<10	215	0.38	0.296	0.26	0.233	18.50	10.60	34.9	1.180
L14- 2/325N		0.38	0.0004	0.117	2.10	6.80	<10	269	0.32	0.209	0.28	0.089	18.35	8.65	31.5	0.870
L14- 2/350N		0.41	<0.0002	0.023	1.53	5.57	<10	147.5	0.30	0.133	0.24	0.066	14.80	6.47	25.0	0.693
L14- 2/375N		0.41	<0.0002	0.016	3.72	7.46	<10	291	1.01	0.091	0.80	0.059	19.15	10.85	23.2	0.738
L14- 2/400N		0.36	0.0003	0.032	1.39	5.07	<10	148.5	0.40	0.148	0.25	0.066	24.8	5.96	25.7	0.701
L14- 2/425N		0.32	0.0005	0.030	0.87	2.90	<10	168.0	0.19	0.136	0.26	0.051	18.50	3.22	16.85	0.407
L14- 2/450N		0.41	0.0012	0.023	1.54	5.74	<10	200	0.39	0.148	0.27	0.075	19.50	7.09	25.1	0.728
L14- 2/475N		0.36	0.0003	0.030	1.44	4.98	<10	119.5	0.27	0.138	0.24	0.045	16.15	5.33	25.4	0.718
L14- 2/500N		0.36	<0.0002	0.039	1.21	3.29	<10	192.0	0.30	0.115	0.26	0.025	17.55	5.61	21.0	0.520
L14- 3/0N		0.36	<0.0002	0.046	2.05	3.33	<10	209	0.35	0.082	0.36	0.033	14.25	7.75	22.4	0.531
L14- 3/25N		0.34	<0.0002	0.054	1.66	3.13	<10	276	0.35	0.117	0.38	0.072	14.35	8.64	22.8	0.601
L14- 3/50N		0.28	0.0003	0.048	2.02	2.26	<10	306	0.51	0.112	0.50	0.081	16.25	10.40	22.9	0.515

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
	Analyte	Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.04	0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
AGL- 1		10.45	0.094	3.56	0.002	0.002	27.2	0.014	0.08	0.289	5.34	1.6	1.05	28.3	<0.005	1.64
AGL- 2		7.63	0.120	2.94	0.002	<0.002	13.25	0.003	0.02	0.167	4.09	1.4	1.09	39.3	<0.005	1.24
AGL- 3		6.27	0.084	3.67	0.001	<0.002	2.06	<0.001	0.01	0.166	4.61	0.2	0.96	62.5	0.009	<0.01
L14- 1/50N		12.35	0.099	5.97	0.003	<0.002	5.69	<0.001	0.01	0.295	4.51	0.5	0.46	70.7	<0.005	0.01
L14- 1/150N		15.70	0.018	6.92	0.002	<0.002	10.15	<0.001	<0.01	0.406	3.35	0.5	0.57	32.4	<0.005	0.02
L14- 1/175N		10.80	0.067	7.81	<0.001	<0.002	8.52	<0.001	<0.01	0.304	3.29	0.4	0.58	36.2	<0.005	0.03
L14- 1/200N		10.90	0.081	7.19	<0.001	<0.002	11.90	<0.001	<0.01	0.272	3.31	0.4	0.56	46.7	<0.005	0.04
L14- 1/225N		15.70	0.022	6.14	0.002	0.002	13.10	<0.001	<0.01	0.472	3.10	0.4	0.47	23.6	<0.005	0.03
L14- 1/250N		14.55	0.050	6.71	0.001	<0.002	11.50	<0.001	<0.01	0.321	2.82	0.3	0.49	19.75	<0.005	0.04
L14- 1/275N		12.80	0.060	6.28	0.001	<0.002	12.10	<0.001	<0.01	0.262	3.01	0.3	0.46	34.4	<0.005	0.03
L14- 1/300N		8.12	0.076	7.55	<0.001	<0.002	9.97	<0.001	<0.01	0.162	3.72	0.4	0.64	46.1	<0.005	0.03
L14- 1/325N		14.45	0.052	7.97	<0.001	<0.002	8.34	<0.001	<0.01	0.474	3.52	0.5	0.53	25.5	<0.005	0.04
L14- 1/350N		13.05	0.080	6.90	<0.001	<0.002	11.85	<0.001	<0.01	0.348	3.31	0.2	0.64	28.5	<0.005	0.05
L14- 1/375N		12.95	0.054	5.33	<0.001	<0.002	20.6	<0.001	<0.01	0.316	3.48	0.4	0.48	23.6	<0.005	0.03
L14- 1/400N		15.25	0.063	6.43	0.001	<0.002	20.9	<0.001	<0.01	0.367	3.31	0.2	0.57	27.0	<0.005	0.05
L14- 1/425N		12.25	0.067	5.00	<0.001	<0.002	6.70	<0.001	<0.01	0.298	4.91	0.3	0.68	30.6	<0.005	0.03
L14- 1/450N		12.70	0.165	7.70	0.002	<0.002	22.4	<0.001	<0.01	0.236	7.45	0.3	0.90	50.9	<0.005	0.03
L14- 1/475N		18.85	0.126	7.94	0.001	<0.002	18.20	<0.001	<0.01	0.389	4.50	0.4	0.85	33.5	<0.005	0.06
L14- 1/500N		16.05	0.023	7.81	<0.001	<0.002	10.80	<0.001	<0.01	0.437	3.26	0.3	0.66	24.0	<0.005	0.08
L14- 2/50N		18.85	0.030	7.86	0.002	<0.002	11.15	<0.001	<0.01	0.397	3.31	0.2	1.10	23.6	<0.005	0.06
L14- 2/75N		16.90	0.034	7.29	0.001	<0.002	11.20	<0.001	<0.01	0.402	3.45	0.3	0.59	30.1	<0.005	0.05
L14- 2/100N		14.75	0.134	9.12	0.001	<0.002	13.60	<0.001	<0.01	0.308	3.75	0.3	0.66	29.0	<0.005	0.03
L14- 2/125N		14.15	0.301	8.17	0.002	<0.002	11.75	<0.001	<0.01	0.277	4.55	0.5	0.69	41.4	<0.005	0.04
L14- 2/150N		21.8	0.196	8.95	0.001	<0.002	11.35	<0.001	<0.01	0.497	3.97	0.4	0.68	28.8	<0.005	0.06
L14- 2/175N		10.25	0.033	6.00	0.001	0.004	10.65	<0.001	<0.01	0.302	2.85	0.3	0.85	39.5	<0.005	0.04
L14- 2/200N		14.70	0.036	7.24	0.001	<0.002	9.53	<0.001	<0.01	0.315	3.14	0.4	0.60	27.8	<0.005	0.04
L14- 2/250N		16.45	0.114	7.02	0.001	<0.002	9.61	<0.001	<0.01	0.311	3.59	0.4	0.55	62.8	<0.005	0.19
L14- 2/275N		14.85	0.057	6.67	0.001	<0.002	7.72	<0.001	<0.01	0.324	3.00	0.5	0.45	31.3	<0.005	0.11
L14- 2/300N		18.30	0.059	10.25	0.001	<0.002	11.65	<0.001	<0.01	0.428	3.51	0.3	0.74	29.5	<0.005	0.05
L14- 2/325N		16.25	0.035	8.78	<0.001	<0.002	7.59	<0.001	0.01	0.355	3.37	0.4	0.62	35.1	<0.005	0.05
L14- 2/350N		12.90	0.033	6.20	<0.001	0.003	10.00	<0.001	<0.01	0.300	3.11	0.3	0.50	26.4	<0.005	0.04
L14- 2/375N		19.60	0.050	7.29	0.001	<0.002	6.46	<0.001	<0.01	0.265	4.50	0.4	0.58	102.0	0.007	0.04
L14- 2/400N		12.65	0.017	8.56	0.001	<0.002	9.20	<0.001	<0.01	0.345	2.66	0.4	0.57	20.6	<0.005	0.03
L14- 2/425N		7.70	0.022	6.74	<0.001	<0.002	6.51	<0.001	<0.01	0.238	1.790	0.4	0.55	23.3	<0.005	0.04
L14- 2/450N		12.35	0.054	8.31	<0.001	<0.002	13.55	<0.001	0.01	0.294	3.40	0.3	0.62	24.0	<0.005	0.04
L14- 2/475N		12.50	0.019	7.24	0.001	<0.002	10.25	<0.001	<0.01	0.361	2.41	0.2	0.64	23.9	<0.005	0.02
L14- 2/500N		9.65	0.018	7.27	<0.001	<0.002	11.35	<0.001	0.01	0.277	2.41	0.1	0.54	20.9	<0.005	0.01
L14- 3/0N		11.25	0.051	6.92	0.002	<0.002	5.64	<0.001	<0.01	0.246	4.10	0.1	0.71	37.8	<0.005	0.02
L14- 3/25N		11.85	0.068	7.26	0.001	<0.002	7.15	<0.001	0.01	0.261	2.67	0.2	0.57	36.0	<0.005	0.02
L14- 3/50N		10.90	0.081	6.86	0.001	<0.002	6.69	<0.001	0.01	0.213	4.13	0.2	0.64	45.4	<0.005	0.01

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	Cu- OG46
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.001
AGL- 1		1.715	0.081	0.114	0.505	77.4	7.54	6.77	66.8	2.08	1.725
AGL- 2		1.095	0.089	0.057	0.403	76.1	0.946	8.13	57.7	2.14	
AGL- 3		0.388	0.100	0.014	0.234	54.6	1.020	8.75	37.6	2.35	
L14- 1/50N		2.64	0.085	0.066	0.560	64.8	0.168	5.75	50.5	2.99	
L14- 1/150N		2.69	0.097	0.081	0.428	63.9	0.182	3.35	51.9	4.15	
L14- 1/175N		1.850	0.087	0.083	0.330	58.5	0.164	3.46	78.5	2.93	
L14- 1/200N		1.790	0.116	0.085	0.304	64.8	0.163	2.92	69.3	3.12	
L14- 1/225N		2.79	0.087	0.080	0.376	55.1	0.151	2.69	47.5	3.18	
L14- 1/250N		2.20	0.080	0.075	0.328	61.1	0.184	2.34	45.2	2.18	
L14- 1/275N		2.31	0.084	0.076	0.360	60.2	0.116	2.85	58.6	3.98	
L14- 1/300N		2.71	0.026	0.043	0.389	68.9	0.081	3.78	64.0	1.89	
L14- 1/325N		2.31	0.078	0.079	0.336	68.6	0.143	2.51	51.1	4.56	
L14- 1/350N		1.765	0.082	0.100	0.312	72.4	0.178	2.19	71.6	0.81	
L14- 1/375N		2.98	0.079	0.090	0.381	54.3	0.134	3.74	53.8	3.26	
L14- 1/400N		2.69	0.090	0.094	0.354	62.0	0.168	2.87	71.0	2.74	
L14- 1/425N		2.41	0.063	0.064	0.380	74.3	0.093	3.06	66.4	2.96	
L14- 1/450N		4.00	0.103	0.116	0.491	100.5	0.088	4.33	119.0	3.19	
L14- 1/475N		2.52	0.104	0.128	0.422	85.2	0.181	2.85	94.5	2.91	
L14- 1/500N		2.59	0.081	0.104	0.413	68.6	0.186	2.81	63.7	3.07	
L14- 2/50N		2.69	0.091	0.097	0.388	69.6	0.196	2.63	44.2	3.83	
L14- 2/75N		2.36	0.097	0.103	0.383	72.6	0.205	2.81	49.1	2.55	
L14- 2/100N		2.57	0.099	0.102	0.370	74.8	0.231	3.42	66.3	2.97	
L14- 2/125N		1.840	0.146	0.082	0.305	89.2	0.156	4.47	88.1	3.23	
L14- 2/150N		2.22	0.099	0.093	0.405	90.9	0.221	3.01	62.7	2.33	
L14- 2/175N		2.08	0.088	0.080	0.335	55.2	0.141	3.03	43.6	2.23	
L14- 2/200N		2.22	0.091	0.094	0.347	65.2	0.203	2.64	57.4	2.51	
L14- 2/250N		2.03	0.146	0.098	0.361	97.8	0.212	2.84	87.0	4.03	
L14- 2/275N		2.29	0.076	0.096	0.512	57.5	0.245	4.03	42.7	0.61	
L14- 2/300N		2.70	0.086	0.131	0.423	79.8	0.250	3.02	48.3	3.98	
L14- 2/325N		2.65	0.083	0.109	0.360	73.2	0.220	3.00	59.3	3.68	
L14- 2/350N		2.05	0.078	0.093	0.310	58.2	0.176	2.50	44.1	2.57	
L14- 2/375N		2.04	0.089	0.046	0.350	69.4	0.122	4.82	61.5	2.46	
L14- 2/400N		2.32	0.083	0.082	0.384	56.5	0.196	3.40	42.6	1.88	
L14- 2/425N		2.12	0.083	0.069	0.324	44.4	0.187	3.07	25.8	1.70	
L14- 2/450N		2.55	0.080	0.084	0.379	60.2	0.227	3.53	52.2	2.50	
L14- 2/475N		2.21	0.085	0.078	0.333	59.3	0.275	2.44	39.1	2.39	
L14- 2/500N		2.03	0.082	0.075	0.332	50.2	0.185	3.22	37.9	2.12	
L14- 3/0N		1.710	0.083	0.058	0.305	65.5	0.165	3.33	63.7	1.90	
L14- 3/25N		1.710	0.081	0.080	0.296	52.3	0.163	3.06	67.1	1.39	
L14- 3/50N		1.765	0.104	0.088	0.304	62.5	0.146	3.81	80.9	1.68	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- MS41L Au ppm 0.0002	ME- MS41L Ag ppm 0.001	ME- MS41L Al % 0.01	ME- MS41L As ppm 0.01	ME- MS41L B ppm 10	ME- MS41L Ba ppm 0.5	ME- MS41L Be ppm 0.01	ME- MS41L Bi ppm 0.001	ME- MS41L Ca % 0.01	ME- MS41L Cd ppm 0.001	ME- MS41L Ce ppm 0.003	ME- MS41L Co ppm 0.001	ME- MS41L Cr ppm 0.01	ME- MS41L Cs ppm 0.005
L14- 3/75N		0.26	<0.0002	0.028	1.90	2.82	<10	311	0.41	0.079	0.45	0.046	14.40	7.82	20.7	0.427
L14- 3/100N		0.29	<0.0002	0.012	1.71	5.33	<10	167.0	0.33	0.091	0.29	0.029	17.55	6.73	26.8	0.562
L14- 3/125N		0.41	<0.0002	0.021	1.71	3.09	<10	198.5	0.35	0.099	0.36	0.032	16.95	6.56	23.1	0.462
L14- 3/150N		0.32	0.0004	0.023	1.65	3.70	<10	211	0.40	0.099	0.39	0.049	16.90	6.64	23.6	0.281
L14- 3/175N		0.31	<0.0002	0.019	1.76	2.90	<10	169.0	0.34	0.095	0.43	0.038	16.70	7.09	22.1	0.402
L14- 3/200N		0.28	0.0015	0.021	2.47	3.98	<10	210	0.47	0.095	0.43	0.035	16.10	8.50	21.5	0.682
L14- 3/225N		0.31	<0.0002	0.026	2.18	3.82	<10	174.0	0.44	0.091	0.37	0.032	15.85	8.19	22.9	0.629
L14- 3/250N		0.24	<0.0002	0.070	2.33	5.47	<10	185.0	0.45	0.113	0.39	0.061	18.40	7.99	26.0	0.861
L14- 3/275N		0.31	0.0005	0.023	2.43	5.00	<10	243	0.44	0.100	0.45	0.050	15.80	8.57	23.7	1.240
L14- 3/300N		0.27	<0.0002	0.036	2.59	5.16	<10	229	0.37	0.100	0.49	0.047	14.10	9.58	22.7	0.832
L14- 3/325N		0.31	<0.0002	0.022	2.10	5.84	<10	180.5	0.43	0.104	0.36	0.031	18.60	7.95	25.6	0.852
L14- 3/350N		0.29	<0.0002	0.031	1.47	4.68	<10	176.0	0.27	0.105	0.34	0.029	18.55	6.78	25.2	0.668
L14- 3/375N		0.36	0.0011	0.016	1.28	5.21	<10	153.5	0.25	0.114	0.31	0.045	20.2	5.86	25.4	0.672
L14- 3/400N		0.37	<0.0002	0.019	1.98	2.75	<10	177.0	0.44	0.089	0.36	0.046	15.30	7.39	21.9	0.724
L14- 3/425N		0.26	<0.0002	0.018	2.23	2.71	<10	199.5	0.44	0.108	0.22	0.028	19.40	11.15	20.1	0.676
L14- 3/450N		0.45	<0.0002	0.014	1.32	1.85	<10	152.0	0.30	0.075	0.32	0.043	14.85	7.86	17.05	0.694
L14- 3/475N		0.34	<0.0002	0.034	1.54	3.43	<10	213	0.31	0.119	0.29	0.048	18.00	8.25	24.9	0.702
L14- 3/500N		0.30	<0.0002	0.041	1.61	2.87	<10	250	0.48	0.122	0.30	0.077	18.65	10.40	25.4	0.671
L14- 3/525N		0.41	<0.0002	0.013	2.15	2.29	<10	203	0.32	0.063	0.32	0.051	15.90	9.31	17.90	0.678
L14- 3/550N		0.30	0.0003	0.031	1.52	6.21	<10	207	0.22	0.151	0.30	0.063	21.9	6.97	28.1	0.747
L14- 3/575N		0.33	<0.0002	0.042	2.04	7.88	<10	202	0.37	0.137	0.24	0.066	21.7	11.65	31.6	0.756
L14- 3/600N		0.25	0.0002	0.008	1.62	9.05	<10	238	0.36	0.110	0.28	0.067	21.9	8.46	28.3	0.813
L14- 3/625N		0.31	0.0007	0.041	1.81	7.22	<10	226	0.63	0.130	0.26	0.056	22.9	9.62	35.7	0.862
L14- 3/650N		0.36	0.0002	0.044	1.33	6.79	<10	167.0	0.32	0.167	0.24	0.080	19.75	6.10	22.1	0.644
L14- 3/675N		0.29	0.0006	0.011	1.90	8.96	<10	207	0.33	0.095	0.37	0.078	19.30	9.81	27.2	0.762
L14- 3/700N		0.31	0.0007	0.064	1.22	5.40	<10	203	0.32	0.107	0.40	0.043	25.1	7.24	24.6	0.556
L14- 3/725N		0.32	0.0004	0.075	1.33	7.14	<10	148.0	0.30	0.149	0.35	0.062	20.5	7.57	27.8	0.739
L14- 3/750N		0.41	<0.0002	0.048	1.20	5.23	<10	119.0	0.23	0.128	0.37	0.066	20.6	4.94	21.7	0.584
L14- 3/775N		0.31	0.0021	0.034	1.63	5.70	<10	154.0	0.40	0.139	0.35	0.063	24.7	7.74	27.5	0.760
L14- 3/800N		0.37	<0.0002	0.017	1.49	3.54	<10	175.0	0.30	0.083	0.39	0.047	17.40	7.89	21.3	0.638
S2793		0.26	0.0010	0.077	1.30	8.46	<10	187.0	0.55	0.091	1.28	0.199	31.6	10.45	26.7	1.050
S2794		0.32	0.0012	0.045	1.00	5.93	<10	161.0	0.39	0.064	1.64	0.143	24.7	7.60	18.70	0.600
S2802		0.39	0.0015	0.056	1.22	6.42	<10	191.0	0.46	0.084	1.76	0.158	25.1	9.19	21.7	0.914

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
L14- 3/75N		12.65	2.37	8.28	0.036	0.081	0.004	0.024	0.04	7.32	11.8	0.55	297	0.37	0.027	0.853
L14- 3/100N		14.65	2.19	6.08	0.027	0.050	0.009	0.021	0.04	8.85	12.3	0.44	179.5	0.53	0.015	1.095
L14- 3/125N		14.60	2.09	6.89	0.028	0.058	<0.004	0.026	0.04	8.50	11.6	0.45	225	0.46	0.020	1.095
L14- 3/150N		14.70	2.18	6.57	0.032	0.083	0.007	0.026	0.06	8.32	10.8	0.43	215	0.34	0.016	1.020
L14- 3/175N		11.40	2.24	7.21	0.031	0.092	0.006	0.023	0.06	8.21	12.9	0.51	238	0.42	0.017	1.125
L14- 3/200N		18.75	2.70	9.91	0.039	0.110	0.007	0.031	0.06	7.90	12.6	0.64	284	0.51	0.021	1.045
L14- 3/225N		13.55	2.25	8.25	0.030	0.092	0.009	0.018	0.04	7.81	11.3	0.46	228	0.44	0.015	0.936
L14- 3/250N		36.9	2.55	8.20	0.041	0.090	0.072	0.031	0.06	9.13	11.9	0.48	209	0.52	0.020	1.060
L14- 3/275N		24.6	2.51	8.77	0.037	0.120	0.006	0.026	0.06	7.89	12.9	0.57	272	0.50	0.019	0.925
L14- 3/300N		17.55	2.50	10.30	0.038	0.047	0.010	0.021	0.06	6.91	15.2	0.51	267	0.46	0.015	1.175
L14- 3/325N		14.20	2.62	8.75	0.044	0.054	<0.004	0.028	0.07	9.39	13.9	0.58	250	0.57	0.016	1.115
L14- 3/350N		13.40	2.06	5.79	0.029	0.074	0.013	0.018	0.05	9.40	12.1	0.43	214	0.54	0.022	0.864
L14- 3/375N		14.20	1.950	4.94	0.038	0.081	0.009	0.016	0.06	10.15	11.9	0.44	191.0	0.56	0.014	0.915
L14- 3/400N		11.00	2.24	8.15	0.033	0.108	<0.004	0.023	0.05	7.56	10.8	0.48	316	0.45	0.017	0.989
L14- 3/425N		23.5	2.73	10.10	0.041	0.112	0.006	0.028	0.08	9.32	17.0	0.56	650	0.50	0.020	1.255
L14- 3/450N		9.78	1.970	6.47	0.025	0.044	<0.004	0.016	0.07	7.40	11.1	0.37	255	0.36	0.014	0.889
L14- 3/475N		17.50	2.18	6.65	0.036	0.035	0.006	0.010	0.04	9.16	12.0	0.39	490	0.56	0.013	1.220
L14- 3/500N		21.7	2.22	6.73	0.026	0.031	0.005	0.022	0.04	9.58	12.3	0.38	777	0.55	0.015	1.095
L14- 3/525N		11.90	3.06	11.70	0.036	0.058	0.005	0.021	0.13	8.34	18.4	0.83	465	0.75	0.018	0.599
L14- 3/550N		10.40	2.11	5.76	0.036	0.062	0.005	0.014	0.05	11.10	12.4	0.39	234	0.75	0.014	1.180
L14- 3/575N		16.05	2.73	6.55	0.036	0.035	0.004	0.022	0.06	10.95	13.1	0.42	289	0.69	0.013	1.310
L14- 3/600N		18.55	2.80	5.75	0.041	0.017	0.010	0.032	0.07	11.35	14.0	0.39	230	0.50	0.012	0.933
L14- 3/625N		19.00	2.52	5.41	0.042	0.084	0.007	0.030	0.06	11.55	11.9	0.49	254	0.67	0.013	1.170
L14- 3/650N		14.05	2.08	6.02	0.022	0.041	<0.004	0.017	0.04	9.56	8.2	0.26	154.5	0.72	0.012	1.135
L14- 3/675N		12.60	2.55	6.22	0.051	0.110	0.007	0.022	0.09	9.98	15.1	0.55	288	0.54	0.019	0.900
L14- 3/700N		15.35	1.930	4.85	0.038	0.058	0.019	0.014	0.05	13.20	9.6	0.39	304	0.48	0.019	1.125
L14- 3/725N		10.35	2.29	5.68	0.032	0.092	0.005	0.012	0.07	10.35	12.0	0.45	268	0.77	0.017	1.365
L14- 3/750N		9.39	1.870	6.46	0.035	0.062	0.010	0.011	0.11	10.50	8.0	0.39	180.0	0.47	0.013	1.490
L14- 3/775N		13.50	2.42	6.66	0.040	0.074	0.013	0.022	0.10	14.80	12.8	0.53	259	0.47	0.021	1.385
L14- 3/800N		13.00	2.42	7.27	0.037	0.099	0.005	0.020	0.14	9.14	14.8	0.56	307	0.47	0.019	0.845
S2793		36.7	2.50	5.37	0.086	0.257	0.063	0.023	0.14	15.55	9.4	0.56	581	0.87	0.026	0.310
S2794		24.5	2.14	4.14	0.060	0.221	0.029	0.016	0.09	12.95	6.6	0.46	430	0.54	0.028	0.247
S2802		30.4	2.39	4.62	0.079	0.268	0.049	0.026	0.13	12.85	7.8	0.55	599	0.65	0.024	0.203

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method Analyte Units LOR	ME- MS41L Ni ppm 0.04	ME- MS41L P % 0.001	ME- MS41L Pb ppm 0.005	ME- MS41L Pd ppm 0.001	ME- MS41L Pt ppm 0.002	ME- MS41L Rb ppm 0.005	ME- MS41L Re ppm 0.001	ME- MS41L S % 0.01	ME- MS41L Sb ppm 0.005	ME- MS41L Sc ppm 0.005	ME- MS41L Se ppm 0.1	ME- MS41L Sn ppm 0.01	ME- MS41L Sr ppm 0.01	ME- MS41L Ta ppm 0.005	ME- MS41L Te ppm 0.01
L14- 3/75N		9.04	0.035	5.64	0.002	<0.002	6.84	<0.001	0.01	0.167	4.97	0.2	0.66	37.7	<0.005	0.01
L14- 3/100N		11.70	0.027	5.76	0.001	<0.002	5.32	<0.001	0.01	0.333	3.34	0.1	0.57	29.5	<0.005	0.03
L14- 3/125N		10.50	0.021	6.24	<0.001	<0.002	4.73	<0.001	0.01	0.218	3.26	0.1	0.63	38.5	<0.005	0.02
L14- 3/150N		10.30	0.027	6.55	0.001	<0.002	3.49	<0.001	0.01	0.244	3.75	0.2	0.62	40.7	<0.005	0.01
L14- 3/175N		10.25	0.042	6.02	0.001	<0.002	7.92	<0.001	0.01	0.264	3.71	<0.1	0.67	48.2	<0.005	0.02
L14- 3/200N		11.30	0.045	8.70	0.002	<0.002	6.36	<0.001	0.01	0.259	4.12	0.1	0.75	47.8	<0.005	0.02
L14- 3/225N		11.95	0.032	6.01	0.002	<0.002	6.50	<0.001	0.01	0.254	3.82	<0.1	0.68	35.9	<0.005	0.04
L14- 3/250N		13.55	0.055	6.69	0.004	0.002	8.00	<0.001	0.01	0.272	3.94	0.1	0.68	45.1	<0.005	0.04
L14- 3/275N		13.80	0.049	6.38	0.002	<0.002	12.20	<0.001	0.01	0.278	4.48	0.1	0.67	58.8	<0.005	0.01
L14- 3/300N		13.30	0.089	6.39	0.002	<0.002	12.85	<0.001	0.01	0.235	4.11	0.2	0.68	63.1	<0.005	0.03
L14- 3/325N		13.20	0.055	6.76	<0.001	<0.002	13.15	<0.001	0.01	0.307	4.64	0.1	0.69	44.9	<0.005	0.01
L14- 3/350N		10.95	0.045	8.93	0.002	<0.002	9.99	<0.001	0.01	0.261	3.05	0.1	0.55	31.6	<0.005	0.03
L14- 3/375N		11.35	0.029	6.17	0.001	<0.002	10.75	<0.001	0.01	0.313	2.97	0.2	0.50	29.6	<0.005	<0.01
L14- 3/400N		10.85	0.024	6.12	<0.001	<0.002	6.27	<0.001	0.01	0.186	3.60	0.2	0.62	57.9	<0.005	0.01
L14- 3/425N		10.25	0.077	5.96	<0.001	<0.002	12.60	<0.001	0.01	0.216	4.01	0.1	0.69	24.4	<0.005	0.05
L14- 3/450N		7.60	0.062	4.70	<0.001	<0.002	14.30	<0.001	0.01	0.159	2.55	0.1	0.47	37.3	<0.005	0.02
L14- 3/475N		11.30	0.038	6.52	0.002	0.002	10.25	<0.001	0.01	0.348	3.05	0.1	0.60	35.2	<0.005	0.05
L14- 3/500N		12.50	0.029	39.9	0.001	<0.002	8.57	<0.001	0.01	0.289	2.95	0.2	0.64	36.3	<0.005	0.01
L14- 3/525N		8.89	0.035	5.02	0.001	<0.002	28.4	<0.001	0.01	0.171	4.53	<0.1	0.77	39.6	<0.005	0.02
L14- 3/550N		11.35	0.034	7.24	0.001	<0.002	12.80	<0.001	0.01	0.327	2.77	<0.1	0.60	31.8	<0.005	0.03
L14- 3/575N		15.70	0.090	7.05	<0.001	<0.002	10.10	<0.001	0.01	0.235	3.26	0.1	0.63	22.8	<0.005	0.02
L14- 3/600N		14.90	0.184	6.86	<0.001	<0.002	7.99	<0.001	0.01	0.239	2.86	0.1	0.48	26.7	<0.005	0.03
L14- 3/625N		19.30	0.030	6.83	0.003	<0.002	9.98	<0.001	0.01	0.410	3.80	0.2	0.57	29.9	<0.005	0.04
L14- 3/650N		9.88	0.104	7.93	0.001	<0.002	7.64	<0.001	0.02	0.274	2.55	0.1	0.64	25.4	<0.005	0.03
L14- 3/675N		14.40	0.160	5.72	0.001	<0.002	11.60	<0.001	0.02	0.275	3.84	0.1	0.52	36.8	<0.005	0.05
L14- 3/700N		11.70	0.046	5.54	<0.001	<0.002	7.37	<0.001	0.02	0.204	3.92	0.3	0.45	32.0	<0.005	0.01
L14- 3/725N		10.95	0.062	7.40	0.002	<0.002	16.90	<0.001	0.02	0.365	3.00	0.1	0.53	25.5	<0.005	0.02
L14- 3/750N		8.99	0.069	5.99	0.003	<0.002	18.30	<0.001	0.01	0.230	3.04	0.2	0.65	37.3	<0.005	<0.01
L14- 3/775N		12.55	0.058	7.01	0.002	<0.002	16.45	<0.001	0.01	0.274	3.83	0.2	0.61	33.2	<0.005	0.03
L14- 3/800N		9.99	0.071	5.38	<0.001	<0.002	15.30	<0.001	0.01	0.230	3.62	0.1	0.48	40.8	<0.005	0.02
S2793		17.80	0.117	6.94	0.003	<0.002	11.80	<0.001	0.01	0.491	6.79	0.3	0.43	78.7	<0.005	0.03
S2794		12.70	0.109	5.23	0.002	<0.002	6.69	<0.001	0.01	0.380	4.87	0.2	0.36	95.2	<0.005	0.02
S2802		17.35	0.124	5.64	0.003	<0.002	7.60	<0.001	0.01	0.399	5.36	0.4	0.36	74.5	<0.005	0.03

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	Cu- OG46
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.001
L14- 3/75N		1.770	0.118	0.061	0.284	64.0	0.132	4.36	58.6	3.21	
L14- 3/100N		2.27	0.086	0.084	0.374	64.7	0.148	3.14	44.2	2.19	
L14- 3/125N		2.04	0.098	0.079	0.328	59.3	0.148	3.54	45.3	2.57	
L14- 3/150N		2.31	0.083	0.070	0.347	59.6	0.135	3.57	49.4	3.06	
L14- 3/175N		2.03	0.087	0.075	0.327	60.7	0.139	3.83	55.8	3.23	
L14- 3/200N		1.820	0.115	0.064	0.267	71.7	0.168	3.90	77.6	3.76	
L14- 3/225N		1.930	0.096	0.087	0.310	62.6	0.130	3.68	57.4	3.35	
L14- 3/250N		2.19	0.094	0.075	0.359	71.6	0.158	3.78	61.5	3.92	
L14- 3/275N		2.58	0.107	0.073	0.378	69.4	0.179	4.14	69.2	3.98	
L14- 3/300N		1.870	0.097	0.071	0.313	66.5	0.169	3.38	57.3	2.06	
L14- 3/325N		2.48	0.101	0.093	0.391	73.3	0.184	3.71	57.5	2.40	
L14- 3/350N		2.54	0.091	0.089	0.369	59.4	0.172	3.33	42.8	3.28	
L14- 3/375N		2.93	0.092	0.082	0.441	55.3	0.157	3.54	44.4	3.56	
L14- 3/400N		1.870	0.101	0.072	0.305	59.3	0.142	3.87	73.9	3.57	
L14- 3/425N		1.870	0.117	0.107	0.353	65.7	0.140	3.40	106.5	4.43	
L14- 3/450N		1.870	0.059	0.068	0.293	49.1	0.107	2.81	48.5	2.25	
L14- 3/475N		2.31	0.079	0.109	0.357	63.1	0.173	3.06	71.8	1.88	
L14- 3/500N		2.32	0.073	0.102	0.348	61.1	0.204	3.02	82.7	1.51	
L14- 3/525N		1.990	0.131	0.132	0.306	77.1	0.062	3.84	112.5	2.53	
L14- 3/550N		2.87	0.088	0.109	0.400	63.2	0.218	3.18	42.6	2.73	
L14- 3/575N		2.48	0.082	0.103	0.480	72.7	0.214	3.73	46.6	1.33	
L14- 3/600N		1.770	0.068	0.060	0.389	71.8	0.519	3.50	38.2	0.63	
L14- 3/625N		3.73	0.095	0.089	0.559	66.0	0.173	3.69	43.0	3.71	
L14- 3/650N		2.31	0.080	0.094	0.361	58.2	0.213	3.40	30.6	1.81	
L14- 3/675N		2.93	0.093	0.084	0.435	65.9	0.137	4.09	48.8	4.09	
L14- 3/700N		3.15	0.082	0.067	0.795	54.1	0.233	7.77	35.8	3.14	
L14- 3/725N		2.81	0.102	0.078	0.452	65.1	0.317	4.42	41.6	3.68	
L14- 3/750N		2.75	0.103	0.084	0.452	54.0	0.171	4.51	39.6	2.75	
L14- 3/775N		3.08	0.113	0.097	0.503	65.6	0.205	4.47	49.5	3.14	
L14- 3/800N		2.30	0.119	0.076	0.383	64.8	0.114	4.11	57.4	3.87	
S2793		4.10	0.078	0.123	0.572	64.8	0.106	11.15	64.4	9.54	
S2794		3.07	0.070	0.088	0.508	59.8	0.104	8.34	47.2	8.14	
S2802		3.35	0.071	0.094	0.477	53.7	0.095	8.93	54.9	8.04	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14136571

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41L

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Cu- OG46 ME- MS41L ME- OG46

ALS Canada Ltd.
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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

CERTIFICATE WH14137870

Project: CARMACKS COPPER

P.O. No.: COL- 14- 04

This report is for 147 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 15- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
LOG- 23	Pulp Login - Rcvd with Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Au- AA23	Au 30g FA- AA finish	AAS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 2- OCT- 2014
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Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899670		2.88	<0.005	<0.5	8.18	<5	1810	1.3	<2	2.12	<0.5	4	6	27	2.09	20
E899671		2.61	<0.005	<0.5	7.32	<5	1360	0.9	<2	1.04	<0.5	2	6	120	0.98	10
E899672		3.43	0.297	4.8	8.37	<5	1190	1.4	2	2.51	<0.5	6	8	6440	3.04	20
E899673		3.50	0.041	0.9	9.00	<5	760	1.9	<2	3.99	<0.5	11	9	1140	4.92	20
E899674		1.94	<0.005	<0.5	8.98	<5	940	1.8	<2	3.82	<0.5	10	9	87	4.89	30
E899675		2.66	<0.005	<0.5	6.81	<5	1290	2.3	3	9.34	<0.5	38	154	159	8.04	20
E899676		3.47	0.033	1.2	8.43	<5	980	1.9	<2	4.51	<0.5	18	20	1330	5.84	20
E899677		3.28	<0.005	<0.5	8.07	<5	760	1.8	<2	3.61	<0.5	11	6	527	4.42	20
E899678		3.72	0.021	<0.5	8.45	<5	820	1.9	<2	5.20	<0.5	18	7	752	6.93	30
E899679		2.74	0.041	1.7	8.00	<5	1250	1.7	<2	3.61	<0.5	17	6	2920	5.52	20
E899680		1.41	0.111	2.0	8.87	7	1280	1.7	<2	3.94	<0.5	19	5	4560	5.67	30
E899681		3.62	<0.005	<0.5	9.03	<5	860	1.8	<2	4.41	<0.5	12	5	97	4.75	30
E899682		3.10	<0.005	<0.5	9.20	<5	1030	1.8	2	3.76	<0.5	13	6	239	4.57	20
E899683		3.28	<0.005	<0.5	8.41	5	1750	1.4	<2	2.01	<0.5	5	5	477	2.43	20
E899684		2.99	0.020	0.6	9.11	<5	830	1.7	<2	4.01	<0.5	15	5	1640	4.90	30
E899685		3.36	0.076	3.8	8.02	<5	1250	1.7	2	4.36	<0.5	19	6	7640	6.61	30
E899686		3.43	0.015	<0.5	8.78	<5	1030	1.8	<2	4.43	<0.5	17	6	718	6.14	30
E899687		2.83	0.045	1.3	9.43	<5	1300	1.8	<2	3.75	<0.5	14	5	2840	4.88	30
E899688		3.24	0.047	2.1	9.04	5	1540	1.9	<2	4.16	<0.5	15	6	2970	5.25	30
E899689		2.79	0.019	<0.5	9.16	<5	990	1.6	2	3.65	<0.5	13	6	2440	4.74	30
E899690		3.49	0.025	0.7	9.79	<5	1200	1.5	<2	3.91	<0.5	9	5	1410	3.50	20
E899691		2.91	0.044	1.1	8.83	<5	1060	1.5	<2	4.03	<0.5	15	6	1020	4.72	20
E899692		3.16	<0.005	<0.5	8.05	<5	830	1.5	2	4.68	<0.5	17	7	165	5.54	20
E899693		3.21	<0.005	<0.5	7.34	<5	890	1.4	<2	4.41	<0.5	12	7	88	4.62	30
E899694		3.09	<0.005	<0.5	8.53	<5	910	1.3	<2	3.94	<0.5	10	6	21	3.39	20
E899695		3.67	<0.005	<0.5	8.51	<5	1030	1.5	<2	4.26	<0.5	12	7	14	4.13	20
E899696		3.94	0.012	0.6	8.42	6	760	1.8	<2	4.35	<0.5	14	6	972	4.96	20
E899697		3.45	0.020	0.6	8.25	5	490	1.7	3	4.66	<0.5	14	6	1030	5.08	20
E899698		0.12	0.621	9.5	8.00	<5	1350	1.1	15	1.83	<0.5	8	26	>10000	3.23	20
E899699		0.13	0.442	3.8	8.93	<5	1510	1.4	<2	2.55	<0.5	9	20	8950	3.77	20
E899700		0.12	<0.005	<0.5	9.39	<5	990	1.5	<2	3.37	<0.5	7	20	113	3.34	20
E899701		1.11	0.019	<0.5	9.03	<5	770	1.8	<2	4.55	<0.5	13	5	658	4.55	30
E899702		2.97	<0.005	<0.5	8.65	<5	790	1.7	<2	4.09	<0.5	10	5	89	4.20	30
E899703		1.41	0.011	<0.5	8.67	<5	900	1.8	<2	4.07	<0.5	15	5	359	5.21	20
E899704		3.11	0.009	<0.5	8.19	<5	840	1.8	2	4.26	<0.5	17	5	153	5.49	20
E899705		3.40	0.016	1.1	8.82	6	900	1.8	<2	4.82	<0.5	17	5	2170	5.79	20
E899706		3.10	0.026	0.7	8.80	<5	1440	1.5	2	3.29	<0.5	11	5	1800	3.75	20
E899707		3.49	0.005	<0.5	7.96	<5	1200	1.7	<2	4.18	<0.5	10	5	196	3.61	20
E899708		3.19	0.006	<0.5	8.71	<5	660	1.7	<2	4.05	<0.5	12	5	253	4.26	20
E899709		2.73	<0.005	<0.5	9.11	<5	470	1.8	2	5.02	<0.5	12	4	34	4.45	20

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899670		2.77	10	0.50	413	<1	3.70	2	540	10	<0.01	<5	5	663	<20	0.18
E899671		3.27	<10	0.19	179	<1	3.64	<1	290	13	<0.01	<5	2	513	<20	0.07
E899672		1.58	<10	0.78	504	<1	4.39	2	950	7	0.18	<5	7	1020	<20	0.25
E899673		0.81	10	1.43	923	<1	4.73	3	1500	5	0.02	5	12	1460	<20	0.41
E899674		0.87	10	1.28	886	<1	4.40	3	1070	5	<0.01	6	11	1490	<20	0.37
E899675		0.73	70	4.21	1625	2	1.80	115	4490	5	0.13	5	18	2560	20	1.28
E899676		1.00	20	1.83	1140	<1	4.05	12	2330	6	0.04	<5	14	1360	<20	0.51
E899677		1.21	10	1.23	866	<1	4.20	2	1670	8	0.01	7	10	1080	<20	0.34
E899678		0.84	30	2.07	1395	<1	3.87	2	2980	5	0.01	<5	18	1200	<20	0.57
E899679		1.05	30	1.59	984	<1	3.69	4	2320	10	0.02	<5	9	1090	<20	0.46
E899680		0.73	40	1.73	941	<1	4.04	3	2330	5	0.02	5	9	1380	<20	0.51
E899681		0.80	20	1.34	965	<1	4.32	2	1790	<2	<0.01	<5	11	1485	<20	0.38
E899682		0.97	20	1.32	921	<1	4.39	2	2090	2	<0.01	<5	10	1465	<20	0.39
E899683		2.02	10	0.59	473	<1	4.20	2	890	10	0.01	<5	5	826	<20	0.18
E899684		0.94	10	1.38	953	<1	4.25	3	1870	3	0.02	<5	13	1330	<20	0.36
E899685		0.86	20	1.71	1140	<1	3.68	4	2340	6	0.12	8	12	1340	<20	0.51
E899686		1.07	20	1.80	1180	<1	4.11	3	2350	<2	0.01	<5	14	1360	<20	0.50
E899687		0.92	10	1.35	830	<1	4.41	3	1900	2	0.05	6	10	1240	<20	0.42
E899688		1.03	10	1.48	973	<1	4.23	2	2200	4	0.04	<5	12	1455	<20	0.45
E899689		0.83	10	1.33	812	<1	4.48	3	2650	5	0.01	<5	9	1670	<20	0.38
E899690		0.77	<10	0.99	631	<1	4.65	1	1370	<2	0.02	<5	8	2130	<20	0.29
E899691		0.85	10	1.38	848	<1	4.30	2	1980	5	0.01	5	9	1245	<20	0.39
E899692		0.72	20	1.56	1060	<1	3.89	4	2020	2	<0.01	6	13	1060	<20	0.44
E899693		0.61	10	1.21	893	<1	3.99	1	1650	5	<0.01	<5	9	1310	<20	0.38
E899694		0.71	10	0.86	588	<1	4.26	2	990	18	<0.01	9	7	1340	<20	0.30
E899695		0.67	10	1.17	751	<1	4.23	1	1260	3	<0.01	<5	9	1420	<20	0.32
E899696		1.00	10	1.37	946	<1	4.23	2	1930	2	0.01	<5	12	1050	<20	0.38
E899697		0.60	10	1.41	935	<1	4.15	3	1940	3	0.01	<5	11	926	<20	0.40
E899698		1.51	10	0.84	356	62	3.32	9	980	8	0.08	<5	7	915	<20	0.27
E899699		1.22	10	0.95	641	8	4.20	6	1220	5	0.03	5	7	1250	<20	0.28
E899700		0.87	<10	0.65	676	2	4.76	5	890	8	0.01	5	7	1520	<20	0.22
E899701		0.80	10	1.21	830	<1	4.42	1	1670	2	0.01	5	10	1440	<20	0.36
E899702		0.75	10	1.14	813	<1	4.31	1	1520	5	<0.01	<5	10	1615	<20	0.35
E899703		0.86	10	1.55	1090	<1	4.23	<1	1960	5	0.01	6	12	1510	<20	0.42
E899704		0.88	10	1.66	1180	<1	3.99	1	2080	4	<0.01	<5	14	1485	<20	0.46
E899705		0.76	10	1.66	1130	<1	4.04	<1	2520	2	0.05	6	15	1435	<20	0.46
E899706		1.25	10	1.01	637	<1	4.30	<1	1400	2	0.02	<5	7	1305	<20	0.33
E899707		1.18	10	0.91	672	<1	3.89	2	1330	7	<0.01	8	8	931	<20	0.29
E899708		0.87	10	1.20	814	<1	4.33	2	1770	2	<0.01	6	9	1255	<20	0.36
E899709		0.70	10	1.20	834	<1	4.33	2	1670	6	<0.01	<5	11	1045	<20	0.36

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA62	Cu- AA05
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899670		<10	<10	54	<10	35		0.003	0.001
E899671		<10	<10	21	<10	17		0.013	0.008
E899672		<10	<10	85	<10	51		0.674	0.177
E899673		<10	<10	146	<10	90		0.126	0.071
E899674		<10	<10	142	<10	84		0.010	0.005
E899675		10	<10	202	<10	102		0.017	0.009
E899676		<10	<10	172	<10	101		0.151	0.053
E899677		<10	<10	136	<10	85		0.060	0.023
E899678		<10	<10	222	<10	121		0.082	0.042
E899679		<10	<10	169	<10	105		0.318	0.257
E899680		<10	<10	173	<10	113		0.470	0.413
E899681		<10	<10	146	<10	90		0.011	0.004
E899682		<10	<10	138	<10	88		0.026	0.013
E899683		<10	<10	69	<10	49		0.051	0.029
E899684		<10	<10	151	<10	98		0.168	0.083
E899685		<10	<10	208	<10	121		0.761	0.406
E899686		<10	<10	192	<10	118		0.075	0.040
E899687		<10	<10	149	<10	102		0.278	0.160
E899688		<10	<10	163	<10	110		0.291	0.200
E899689		<10	<10	149	<10	102		0.248	0.103
E899690		<10	<10	112	<10	65		0.143	0.094
E899691		<10	<10	146	<10	90		0.109	0.068
E899692		<10	<10	168	<10	101		0.018	0.008
E899693		<10	<10	141	<10	84		0.010	0.004
E899694		<10	<10	97	<10	65		0.002	<0.001
E899695		<10	<10	119	<10	81		0.001	<0.001
E899696		<10	<10	151	<10	91		0.106	0.056
E899697		<10	<10	155	<10	97		0.110	0.064
E899698		<10	<10	95	20	73	1.630	1.736	1.475
E899699		<10	<10	103	<10	78		0.920	0.794
E899700		<10	<10	85	<10	64		0.011	0.007
E899701		<10	<10	133	<10	84		0.068	0.041
E899702		<10	<10	129	<10	76		0.009	0.003
E899703		<10	<10	155	<10	92		0.039	0.021
E899704		<10	<10	163	<10	94		0.017	0.009
E899705		<10	<10	173	<10	92		0.223	0.092
E899706		<10	<10	109	<10	72		0.181	0.128
E899707		<10	<10	119	<10	65		0.022	0.009
E899708		<10	<10	129	<10	77		0.026	0.009
E899709		<10	<10	138	<10	80		0.003	0.001

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18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899710		3.39	<0.005	<0.5	8.34	<5	570	1.6	<2	4.55	<0.5	12	4	45	4.13	20
E899711		3.21	0.011	<0.5	8.36	<5	870	1.6	7	3.88	<0.5	16	5	652	5.34	30
E899712		3.13	<0.005	<0.5	9.37	5	750	1.6	<2	3.93	<0.5	13	5	203	4.64	20
E899713		3.49	0.030	<0.5	9.26	<5	710	1.3	<2	4.03	<0.5	7	3	667	3.12	20
E899714		3.04	0.048	1.2	8.75	5	1240	1.7	6	3.99	<0.5	18	6	1990	6.05	20
E899715		2.99	<0.005	<0.5	8.55	5	1120	1.4	<2	3.71	<0.5	14	5	57	4.89	20
E899716		3.32	0.005	<0.5	8.51	<5	890	1.7	3	4.72	<0.5	15	6	210	5.58	30
E899717		3.25	0.500	14.4	7.60	5	5020	1.5	24	3.30	0.6	16	7	>10000	6.54	20
E899718		2.79	0.011	<0.5	6.66	<5	1350	0.9	<2	1.30	<0.5	<1	3	409	0.57	10
E899719		3.41	0.113	3.6	8.59	<5	1420	1.6	6	3.18	<0.5	14	5	6250	5.33	20
E899720		1.67	0.035	1.2	8.57	<5	1300	1.5	3	3.19	<0.5	14	6	2160	4.90	20
E899721		2.87	0.030	2.3	8.60	<5	900	2.0	<2	6.30	<0.5	16	7	2330	5.70	30
E899722		3.44	0.014	0.8	8.51	6	480	1.6	<2	4.47	<0.5	11	6	608	4.01	20
E899723		2.71	0.008	<0.5	8.99	5	640	1.5	<2	4.08	<0.5	11	6	307	4.04	20
E899724		3.24	0.100	4.6	8.36	<5	2330	1.6	5	4.57	<0.5	15	7	3400	5.63	30
E899725		3.41	0.005	<0.5	8.88	<5	1100	1.3	<2	2.88	<0.5	11	5	177	4.20	20
E899726		3.31	<0.005	<0.5	8.42	5	760	1.6	<2	3.86	<0.5	11	5	70	4.94	20
E899727		3.43	<0.005	<0.5	9.10	6	880	1.5	<2	3.97	<0.5	9	6	42	4.08	20
E899728		2.95	<0.005	<0.5	8.93	<5	750	1.2	2	3.36	<0.5	9	6	12	3.86	20
E899729		1.78	<0.005	<0.5	8.46	<5	320	1.2	<2	3.23	<0.5	15	10	47	6.26	20
E899730		3.38	0.024	<0.5	8.65	5	920	1.4	<2	3.76	<0.5	10	6	351	4.31	20
E899731		2.57	<0.005	<0.5	9.07	5	470	1.3	<2	3.30	<0.5	8	5	6	3.83	20
E899732		3.89	<0.005	<0.5	8.99	5	1000	1.7	<2	3.47	<0.5	9	6	5	3.96	20
E899733		2.67	0.009	<0.5	8.26	<5	800	1.8	<2	4.59	<0.5	14	6	127	5.37	20
E899734		2.81	0.029	<0.5	8.21	<5	800	1.9	<2	3.91	<0.5	12	4	268	4.58	20
E899735		3.11	0.011	<0.5	8.58	<5	570	2.0	<2	3.96	<0.5	11	4	190	4.05	20
E899736		2.83	0.006	<0.5	8.42	<5	1030	1.9	<2	2.62	<0.5	7	4	247	2.95	20
E899737		3.25	0.040	0.8	8.74	<5	800	2.0	<2	3.23	<0.5	12	4	1250	4.39	20
E899738		2.54	0.006	<0.5	8.64	6	820	1.9	6	3.60	<0.5	13	5	326	4.84	20
E899739		2.94	0.042	1.0	8.67	<5	1060	2.2	2	5.23	<0.5	19	5	1960	7.07	30
E899740		1.42	0.077	1.5	8.55	5	920	1.7	<2	3.83	<0.5	15	4	2100	5.26	20
E899741		3.76	0.026	0.5	8.68	<5	1010	1.8	<2	4.09	<0.5	16	5	1010	5.36	20
E899742		3.05	0.020	<0.5	8.47	8	440	1.9	3	6.56	<0.5	21	6	597	7.36	30
E899743		2.93	0.056	1.1	8.09	8	680	1.7	2	4.50	<0.5	15	5	1840	5.50	20
E899744		3.55	0.017	0.5	8.75	6	640	1.7	<2	3.96	<0.5	13	4	671	4.81	30
E899745		3.78	0.081	1.0	8.82	<5	1010	1.5	<2	3.93	<0.5	12	6	1440	5.47	20
E899746		3.22	<0.005	<0.5	9.26	<5	970	1.5	<2	4.45	<0.5	8	6	21	4.03	20
E899747		3.36	<0.005	<0.5	8.09	<5	1090	1.2	<2	2.26	<0.5	4	5	7	2.15	20
E899748		0.13	0.648	9.6	8.04	<5	1340	1.1	12	1.82	<0.5	7	26	>10000	3.14	20
E899749		0.14	0.446	3.7	8.82	<5	1500	1.4	7	2.49	<0.5	8	20	8670	3.67	20

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899710		0.65	10	1.11	796	<1	4.23	1	1540	3	<0.01	5	9	1205	<20	0.34
E899711		0.90	10	1.46	963	<1	4.14	2	1960	3	<0.01	5	10	1340	<20	0.42
E899712		0.87	10	1.27	828	<1	4.47	<1	1710	2	0.01	<5	11	1235	<20	0.37
E899713		0.76	<10	0.67	493	<1	4.49	<1	860	5	<0.01	5	5	2070	<20	0.24
E899714		1.01	20	1.88	1200	<1	3.88	3	2220	<2	0.02	6	14	1390	<20	0.50
E899715		1.20	20	1.52	941	<1	4.05	1	1890	3	<0.01	<5	12	857	<20	0.38
E899716		1.05	30	1.66	1030	1	3.62	1	2190	<2	<0.01	<5	14	827	<20	0.44
E899717		1.26	30	1.46	950	<1	3.32	7	3120	12	0.78	<5	12	824	<20	0.50
E899718		3.08	<10	0.07	117	<1	3.50	<1	60	10	<0.01	<5	1	293	<20	0.02
E899719		0.98	20	1.53	902	<1	4.14	2	1750	6	0.12	<5	12	1205	<20	0.42
E899720		1.07	20	1.63	902	<1	4.10	1	2000	4	0.02	<5	11	1200	<20	0.41
E899721		0.76	20	1.65	989	<1	2.98	2	2300	6	0.01	<5	12	776	<20	0.48
E899722		0.62	10	1.15	752	<1	4.45	<1	1440	8	<0.01	<5	10	712	<20	0.35
E899723		0.78	10	1.20	736	<1	4.54	<1	1410	5	<0.01	<5	9	900	<20	0.35
E899724		0.96	20	1.61	947	<1	3.43	<1	2260	3	0.05	<5	13	754	<20	0.49
E899725		1.42	10	1.21	738	<1	4.60	<1	1530	3	0.01	<5	10	977	<20	0.34
E899726		0.91	10	1.45	1005	<1	4.22	1	1750	2	<0.01	<5	12	1165	<20	0.42
E899727		0.81	<10	1.20	821	<1	4.62	<1	1290	3	<0.01	<5	11	1595	<20	0.35
E899728		0.56	<10	1.19	740	<1	4.70	<1	1220	<2	0.01	<5	11	918	<20	0.34
E899729		0.48	10	2.22	1335	<1	4.20	2	2030	4	<0.01	<5	20	955	<20	0.59
E899730		0.55	10	1.34	837	<1	4.36	<1	1300	4	0.02	<5	11	892	<20	0.39
E899731		0.72	10	1.22	742	<1	4.58	<1	1180	2	<0.01	<5	10	1160	<20	0.33
E899732		1.03	10	1.20	787	<1	4.81	<1	1220	4	<0.01	<5	10	1150	<20	0.34
E899733		0.75	20	1.53	1005	<1	3.94	1	2010	2	<0.01	<5	13	912	<20	0.46
E899734		0.81	20	1.30	907	<1	4.34	<1	1680	3	<0.01	<5	11	1030	<20	0.38
E899735		0.71	20	1.16	833	<1	4.58	<1	1530	3	<0.01	<5	9	1135	<20	0.34
E899736		1.20	10	0.77	593	<1	4.43	<1	1040	10	<0.01	<5	7	949	<20	0.23
E899737		0.79	20	1.32	868	<1	4.51	<1	1700	6	0.01	<5	9	1090	<20	0.37
E899738		1.11	20	1.45	891	<1	4.53	1	1880	2	<0.01	<5	12	975	<20	0.39
E899739		1.04	30	1.80	1060	<1	3.42	1	2400	4	0.01	<5	13	1135	<20	0.53
E899740		1.03	20	1.66	1020	<1	4.10	<1	2310	<2	0.01	<5	13	1260	<20	0.45
E899741		1.04	20	1.63	1040	<1	4.11	<1	2050	<2	0.01	<5	12	1480	<20	0.42
E899742		0.64	30	2.28	1415	<1	3.13	2	3000	3	<0.01	<5	19	854	<20	0.60
E899743		0.68	20	1.63	983	<1	3.87	1	2070	6	0.02	<5	12	729	<20	0.43
E899744		0.82	10	1.37	882	<1	4.34	<1	1760	3	<0.01	<5	10	1205	<20	0.40
E899745		0.76	10	1.49	995	<1	4.20	1	1620	5	0.02	<5	12	1210	<20	0.40
E899746		0.70	<10	1.10	840	<1	4.49	<1	1220	3	<0.01	<5	10	1505	<20	0.36
E899747		1.95	10	0.56	458	<1	4.17	<1	600	5	<0.01	<5	6	833	<20	0.17
E899748		1.51	10	0.84	346	60	3.36	8	980	7	0.08	<5	7	920	<20	0.27
E899749		1.22	10	0.95	633	8	4.19	7	1220	6	0.02	<5	7	1235	<20	0.29

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CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method Analyte Units LOR	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	Cu- OG62 Cu % 0.001	Cu- AA62 Cu % 0.001	Cu- AA05 Cu % 0.001
E899710		<10	<10	126	<10	74		0.005	0.001
E899711		<10	<10	166	<10	100		0.068	0.038
E899712		<10	<10	134	<10	86		0.021	0.009
E899713		<10	<10	92	<10	56		0.071	0.052
E899714		<10	<10	188	<10	114		0.200	0.135
E899715		<10	<10	142	<10	97		0.006	0.002
E899716		<10	<10	168	<10	102		0.022	0.009
E899717		<10	<10	209	<10	122	3.04	3.067	0.919
E899718		<10	<10	15	<10	9		0.044	0.034
E899719		<10	<10	155	<10	99		0.653	0.336
E899720		<10	<10	144	<10	98		0.226	0.149
E899721		<10	<10	189	<10	110		0.240	0.172
E899722		<10	<10	130	<10	86		0.068	0.042
E899723		<10	<10	127	<10	82		0.033	0.016
E899724		<10	<10	164	<10	123		0.352	0.251
E899725		<10	<10	122	<10	91		0.019	0.009
E899726		<10	<10	149	<10	104		0.008	0.002
E899727		<10	<10	122	<10	86		0.005	0.002
E899728		<10	<10	109	<10	88		0.001	<0.001
E899729		<10	<10	164	<10	139		0.005	0.002
E899730		<10	<10	125	<10	86		0.038	0.025
E899731		10	<10	109	<10	75		<0.001	<0.001
E899732		<10	<10	121	<10	85		<0.001	<0.001
E899733		<10	<10	165	<10	101		0.014	0.005
E899734		<10	<10	147	<10	80		0.030	0.016
E899735		<10	<10	131	<10	70		0.020	0.009
E899736		<10	<10	89	<10	55		0.026	0.015
E899737		<10	<10	135	<10	95		0.136	0.096
E899738		<10	<10	159	<10	81		0.036	0.018
E899739		<10	<10	250	<10	116		0.197	0.140
E899740		<10	<10	164	<10	94		0.232	0.182
E899741		<10	<10	168	<10	95		0.105	0.057
E899742		<10	<10	242	<10	120		0.062	0.032
E899743		<10	<10	176	<10	95		0.200	0.133
E899744		<10	<10	148	<10	86		0.073	0.044
E899745		<10	<10	167	<10	100		0.149	0.094
E899746		<10	<10	120	<10	79		0.002	0.001
E899747		<10	<10	58	<10	40		0.001	<0.001
E899748		<10	<10	95	30	67	1.670	1.689	1.485
E899749		<10	<10	101	<10	71		0.923	0.772

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
E899750		0.13	0.005	<0.5	9.22	<5	970	1.5	<2	3.28	<0.5	5	20	92	3.26	20
E899751		3.15	<0.005	<0.5	9.01	5	860	1.7	<2	3.01	<0.5	10	7	15	4.02	20
E899752		2.81	<0.005	<0.5	6.09	<5	1460	0.9	<2	0.88	<0.5	<1	7	38	0.60	10
E899753		2.89	0.005	<0.5	9.14	<5	810	1.8	2	4.58	<0.5	11	4	99	4.86	20
E899754		3.37	0.006	<0.5	8.73	<5	620	1.8	<2	4.53	<0.5	13	4	227	4.80	20
E899755		2.40	0.021	3.3	8.18	<5	1070	1.7	<2	3.57	<0.5	13	4	1035	4.74	20
E899756		3.47	0.031	0.8	8.64	<5	980	1.9	<2	4.24	<0.5	16	5	1280	5.70	20
E899757		3.61	0.041	3.0	9.17	<5	1000	1.4	<2	3.39	<0.5	12	3	1375	4.26	20
E899758		3.21	0.065	2.3	8.88	<5	1490	2.0	<2	4.01	<0.5	16	5	3270	5.57	20
E899759		2.92	<0.005	<0.5	8.21	<5	830	1.7	<2	4.16	<0.5	19	6	195	7.06	30
E899760		1.45	0.021	0.6	8.54	<5	700	1.8	<2	4.67	<0.5	10	4	1015	4.22	20
E899761		2.88	0.073	3.5	8.97	<5	1930	1.5	<2	3.92	<0.5	12	4	2540	4.60	20
E899762		3.43	0.088	5.3	9.15	<5	1990	1.7	<2	4.77	<0.5	16	5	5150	5.61	20
E899763		3.12	0.005	<0.5	7.95	<5	1190	1.5	<2	3.66	<0.5	9	5	285	3.45	20
E899764		3.29	<0.005	<0.5	5.64	<5	1010	0.9	<2	2.38	<0.5	<1	5	25	0.70	20
E899765		3.17	0.011	<0.5	9.14	<5	820	2.3	<2	3.78	<0.5	8	4	276	3.41	20
E899766		3.24	0.067	2.4	9.06	<5	1550	2.0	3	3.41	<0.5	15	4	4550	4.94	20
E899767		3.68	0.020	0.5	8.73	<5	1100	1.6	<2	3.81	<0.5	12	6	1265	4.61	20
E899768		3.14	<0.005	<0.5	8.90	<5	790	1.5	<2	3.77	<0.5	9	6	38	4.09	20
E899769		3.12	<0.005	<0.5	8.79	5	1050	1.6	<2	5.26	<0.5	14	20	68	5.40	20
E899770		2.86	<0.005	<0.5	8.88	<5	870	1.2	<2	4.12	<0.5	9	5	4	3.78	20
E899771		3.12	<0.005	<0.5	8.57	<5	990	1.4	<2	4.55	<0.5	9	5	13	4.04	20
E899772		2.22	0.006	<0.5	8.84	<5	1110	1.5	<2	4.55	<0.5	9	5	348	4.10	20
E899773		3.64	0.104	1.7	8.87	<5	1300	1.3	<2	4.08	<0.5	11	4	2120	3.73	20
E899774		3.07	0.284	7.0	8.41	<5	2290	1.6	3	5.22	<0.5	11	4	6170	4.52	20
E899775		2.87	<0.005	0.7	8.81	<5	1010	1.3	<2	4.48	<0.5	11	5	328	4.30	20
E899776		1.46	0.036	1.0	8.81	<5	910	1.9	<2	4.52	<0.5	15	4	1550	5.34	30
E899777		3.16	0.022	1.1	8.96	<5	800	1.5	2	4.35	<0.5	13	5	1905	4.93	20
E899778		2.39	0.097	3.3	8.81	<5	1270	1.5	<2	3.78	<0.5	11	4	4140	4.18	20
E899779		3.74	0.041	1.5	8.70	<5	960	1.8	3	5.16	<0.5	24	7	2730	7.97	30
E899780		1.39	0.009	<0.5	8.69	<5	780	1.8	<2	5.48	<0.5	15	4	546	5.29	20
E899781		3.15	0.042	1.3	8.24	<5	1340	1.6	2	3.95	<0.5	14	4	2730	4.91	20
E899782		3.49	0.598	18.9	7.54	7	2030	1.6	15	4.67	1.1	26	7	>10000	8.49	30
E899783		3.54	0.039	<0.5	8.38	<5	360	1.5	<2	4.74	<0.5	13	4	1135	4.87	20
E899784		3.04	0.068	1.4	8.52	<5	680	1.5	<2	4.48	<0.5	17	5	2110	5.63	30
E899785		2.96	0.005	<0.5	8.21	<5	580	1.5	<2	4.20	<0.5	13	4	225	4.59	20
E899786		2.97	0.007	<0.5	8.43	<5	830	1.5	<2	4.14	<0.5	11	3	308	4.21	20
E899787		3.00	0.008	<0.5	8.65	<5	710	1.6	<2	4.37	<0.5	11	4	537	4.45	20
E899788		3.21	0.005	<0.5	8.52	<5	680	1.7	<2	3.99	<0.5	12	4	241	4.90	20
E899789		3.11	0.229	2.7	8.70	5	990	1.8	<2	3.67	<0.5	14	4	2490	4.63	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899750		0.86	<10	0.64	670	1	4.78	5	880	7	0.01	<5	7	1510	<20	0.22
E899751		1.17	10	1.18	901	<1	4.61	<1	1320	6	<0.01	<5	11	1190	<20	0.36
E899752		2.85	<10	0.06	83	<1	2.89	<1	30	13	<0.01	<5	1	367	<20	0.03
E899753		0.71	10	1.36	869	<1	4.48	2	1950	9	0.01	<5	12	1060	<20	0.40
E899754		0.64	10	1.30	823	<1	4.57	2	1870	7	0.01	<5	12	649	<20	0.39
E899755		1.47	10	1.44	873	<1	3.97	2	1820	9	0.01	<5	11	930	<20	0.37
E899756		0.99	20	1.74	1085	<1	4.21	2	2480	4	0.02	<5	14	1130	<20	0.47
E899757		0.76	10	1.13	672	<1	4.67	2	1570	11	0.02	<5	8	1170	<20	0.37
E899758		1.07	20	1.69	995	<1	4.07	3	2380	6	0.06	<5	12	1150	<20	0.48
E899759		0.96	30	2.27	1310	<1	3.65	4	3150	6	<0.01	5	19	941	<20	0.60
E899760		0.67	10	1.15	755	<1	4.16	1	1720	7	<0.01	5	10	782	<20	0.35
E899761		0.80	10	1.26	780	<1	4.34	1	2340	4	0.04	<5	9	952	<20	0.39
E899762		0.93	20	1.60	905	<1	3.83	2	3320	6	0.06	<5	11	948	<20	0.48
E899763		1.48	10	0.93	640	<1	3.76	1	1180	10	0.01	<5	8	630	<20	0.28
E899764		2.29	<10	0.08	203	<1	3.48	<1	120	15	<0.01	<5	1	303	<20	0.04
E899765		0.83	10	0.91	627	<1	4.99	2	1300	6	<0.01	<5	8	715	<20	0.26
E899766		1.05	20	1.62	925	<1	4.20	3	2060	8	0.02	<5	11	1100	<20	0.42
E899767		0.81	10	1.61	948	<1	4.24	3	1600	6	0.01	<5	11	1300	<20	0.41
E899768		0.67	10	1.45	891	<1	4.46	3	1320	5	<0.01	<5	10	1310	<20	0.35
E899769		0.45	10	1.72	957	<1	3.68	5	1640	3	0.01	<5	17	576	<20	0.44
E899770		0.54	10	1.07	697	<1	4.50	1	1180	3	0.01	5	10	810	<20	0.31
E899771		0.46	10	1.12	749	<1	3.85	1	1240	5	0.02	<5	10	715	<20	0.33
E899772		0.40	10	1.12	708	<1	3.78	1	1270	5	0.02	<5	10	727	<20	0.33
E899773		0.60	10	0.89	595	<1	4.47	<1	1480	5	0.02	5	7	936	<20	0.33
E899774		0.77	10	0.86	623	<1	3.80	<1	1790	3	0.05	<5	9	589	<20	0.35
E899775		0.88	20	0.95	677	<1	4.50	3	1750	<2	<0.01	<5	12	806	<20	0.38
E899776		0.84	10	1.39	868	<1	4.43	2	2060	6	<0.01	<5	12	861	<20	0.42
E899777		0.91	10	1.24	788	<1	4.42	3	1910	7	<0.01	<5	12	1230	<20	0.40
E899778		0.74	10	1.18	756	<1	4.54	2	1680	5	0.04	5	9	1310	<20	0.35
E899779		0.75	10	2.51	1455	<1	3.73	4	2870	3	0.03	5	23	1210	<20	0.62
E899780		0.78	10	1.60	971	<1	3.85	3	2150	5	<0.01	<5	13	1430	<20	0.42
E899781		0.85	10	1.35	833	<1	3.81	1	1730	6	0.02	<5	9	1410	<20	0.39
E899782		0.49	50	2.46	1335	<1	2.57	5	3510	9	0.29	<5	21	616	<20	0.66
E899783		0.52	20	1.40	872	<1	3.85	3	2000	6	<0.01	<5	11	672	<20	0.40
E899784		0.62	20	1.69	1085	<1	3.94	2	2230	6	0.01	<5	11	1140	<20	0.49
E899785		0.58	<10	1.35	918	<1	4.07	2	1800	5	<0.01	<5	10	1420	<20	0.39
E899786		0.56	10	1.18	803	<1	4.31	2	1700	7	0.01	<5	10	1270	<20	0.34
E899787		0.58	10	1.25	842	<1	4.37	2	1810	6	0.01	<5	10	1320	<20	0.35
E899788		0.75	20	1.46	939	<1	4.39	3	1990	4	<0.01	<5	11	1150	<20	0.40
E899789		0.84	20	1.43	960	<1	4.18	7	1780	9	0.04	<5	10	1490	<20	0.40

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA62	Cu- AA05
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899750		<10	<10	85	<10	59		0.011	0.006
E899751		<10	<10	112	<10	88		0.002	<0.001
E899752		<10	<10	12	<10	6		0.004	0.001
E899753		<10	<10	151	<10	94		0.011	0.004
E899754		10	<10	158	<10	97		0.022	0.010
E899755		<10	<10	148	<10	93		0.110	0.066
E899756		<10	<10	181	<10	109		0.143	0.072
E899757		<10	<10	129	<10	81		0.145	0.090
E899758		<10	<10	181	<10	106		0.344	0.182
E899759		<10	<10	227	<10	137		0.020	0.011
E899760		<10	<10	135	<10	81		0.113	0.076
E899761		<10	<10	136	<10	95		0.271	0.186
E899762		<10	<10	177	<10	106		0.514	0.362
E899763		<10	<10	95	<10	67		0.033	0.021
E899764		<10	<10	25	<10	8		0.003	0.001
E899765		<10	<10	104	<10	61		0.028	0.017
E899766		<10	<10	154	<10	94		0.440	0.378
E899767		<10	<10	147	<10	89		0.133	0.093
E899768		<10	<10	127	<10	79		0.004	0.001
E899769		<10	<10	161	<10	92		0.007	0.002
E899770		<10	<10	109	<10	71		0.001	<0.001
E899771		<10	<10	116	<10	77		0.001	<0.001
E899772		<10	<10	112	<10	78		0.031	0.019
E899773		<10	<10	118	<10	72		0.228	0.180
E899774		<10	<10	150	<10	80		0.624	0.572
E899775		<10	<10	139	<10	86		0.034	0.017
E899776		<10	<10	175	<10	109		0.162	0.122
E899777		<10	<10	159	<10	95		0.196	0.146
E899778		<10	<10	130	<10	80		0.436	0.332
E899779		<10	<10	252	<10	145		0.270	0.198
E899780		<10	<10	177	<10	100		0.059	0.035
E899781		<10	<10	166	<10	93		0.292	0.227
E899782		<10	<10	268	<10	151	2.51	2.516	1.590
E899783		<10	<10	151	<10	95		0.122	0.088
E899784		<10	<10	183	<10	115		0.223	0.172
E899785		<10	<10	142	<10	94		0.024	0.015
E899786		<10	<10	133	<10	81		0.033	0.022
E899787		<10	<10	144	<10	85		0.058	0.041
E899788		<10	<10	155	<10	90		0.027	0.013
E899789		<10	<10	145	<10	99		0.265	0.163

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 2- OCT- 2014
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Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
E899790		3.07	0.016	0.5	9.03	<5	910	1.6	<2	4.15	<0.5	11	3	861	4.24	20
E899791		3.03	0.235	5.1	8.78	<5	1260	1.8	<2	4.65	<0.5	18	5	4850	6.38	20
E899792		3.30	0.449	10.4	8.67	6	1300	1.9	40	3.61	<0.5	14	4	>10000	4.39	20
E899793		3.19	0.030	0.7	9.36	<5	1020	2.7	<2	3.35	<0.5	14	4	1615	4.31	20
E899794		3.10	0.006	<0.5	9.72	<5	1420	3.5	<2	3.36	<0.5	16	5	608	4.49	20
E899795		2.81	0.093	2.1	9.10	<5	1540	2.0	3	3.13	<0.5	15	5	4280	4.65	20
E899796		3.30	0.057	1.5	8.96	5	1790	1.9	4	3.65	<0.5	12	5	3260	4.40	20
E899797		3.12	<0.005	<0.5	8.43	<5	1270	1.1	<2	5.03	<0.5	10	6	256	4.40	20
E899798		0.13	0.638	9.8	8.62	<5	1380	1.1	9	1.91	0.5	7	26	>10000	3.30	20
E899799		0.13	0.454	3.6	9.35	<5	1530	1.4	<2	2.59	<0.5	9	20	8960	3.78	20
E899800		0.13	<0.005	<0.5	9.60	<5	990	1.5	<2	3.37	<0.5	5	20	99	3.33	20
E899801		1.36	<0.005	<0.5	9.13	<5	860	1.4	<2	4.47	<0.5	9	6	26	3.92	20
E899802		3.36	<0.005	<0.5	9.10	<5	1010	1.4	<2	3.79	<0.5	11	7	20	4.59	20
E899803		2.59	<0.005	<0.5	8.07	<5	1420	1.2	<2	4.57	<0.5	8	5	18	3.53	20
E899804		2.73	<0.005	<0.5	8.59	<5	2350	1.3	<2	2.25	<0.5	4	6	221	2.59	20
E899805		1.59	<0.005	<0.5	8.57	<5	2010	1.4	<2	2.55	<0.5	4	5	498	2.66	20
E899806		2.82	<0.005	2.5	8.18	<5	1810	1.5	<2	2.16	<0.5	3	5	792	2.15	20
E899807		3.01	<0.005	0.5	8.56	<5	1980	1.2	<2	2.26	<0.5	3	6	989	2.57	20
E899808		4.01	0.545	5.4	8.91	<5	1110	1.4	6	3.34	<0.5	18	11	8530	5.58	20
E899809		2.36	0.021	<0.5	8.44	<5	1790	1.3	<2	2.80	<0.5	6	7	1020	3.27	20
E899810		5.61	0.411	5.9	8.15	<5	670	1.3	3	3.78	<0.5	21	13	>10000	6.45	20
E899811		0.95	0.665	6.1	9.33	<5	970	1.4	16	1.65	<0.5	15	10	>10000	5.89	30
E899812		3.11	0.294	3.4	8.62	<5	730	1.3	<2	3.08	<0.5	20	10	9650	7.58	30
E899813		3.17	0.320	3.0	8.38	<5	510	1.2	<2	3.38	<0.5	15	8	8800	5.62	20
E899814		2.81	0.238	1.8	8.86	<5	700	1.3	<2	3.29	<0.5	16	8	6510	5.57	20
E899815		3.87	0.143	1.9	9.04	5	460	1.5	<2	3.51	<0.5	16	9	5750	5.61	30
E899816		3.23	0.157	2.6	8.75	6	460	1.3	<2	3.43	<0.5	17	9	7580	5.53	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899790		0.76	10	1.17	809	<1	4.34	<1	1500	<2	0.01	<5	10	1750	<20	0.33
E899791		1.05	30	1.89	1195	<1	3.58	2	2360	4	0.10	<5	16	1610	<20	0.51
E899792		0.78	10	1.21	650	<1	3.72	3	1510	7	0.26	<5	6	1060	<20	0.36
E899793		0.77	20	1.03	576	<1	4.36	1	1290	6	0.01	<5	7	988	<20	0.32
E899794		1.04	10	1.13	667	<1	4.46	2	1360	6	0.01	<5	7	1550	<20	0.34
E899795		1.05	10	1.41	755	<1	4.10	2	1690	3	0.02	<5	10	1250	<20	0.37
E899796		1.21	20	1.23	675	<1	4.27	2	1710	3	0.05	<5	9	1210	<20	0.39
E899797		0.76	10	1.19	755	<1	3.86	1	1470	3	0.02	<5	11	843	<20	0.39
E899798		1.56	10	0.87	360	65	3.50	10	980	7	0.08	<5	7	951	<20	0.28
E899799		1.24	10	0.98	661	8	4.49	6	1230	9	0.03	<5	7	1250	<20	0.29
E899800		0.86	<10	0.66	680	1	5.00	5	880	7	0.01	<5	7	1520	<20	0.22
E899801		0.87	10	1.12	844	<1	4.28	1	1270	4	0.01	<5	13	1050	<20	0.33
E899802		1.04	10	1.38	906	<1	4.60	2	1420	2	<0.01	<5	12	1050	<20	0.41
E899803		0.85	10	0.79	655	<1	4.53	2	1090	4	0.02	<5	9	851	<20	0.33
E899804		1.90	10	0.62	565	<1	3.68	1	820	5	<0.01	<5	6	1020	<20	0.23
E899805		1.68	10	0.70	636	<1	3.73	<1	780	8	<0.01	<5	5	1030	<20	0.24
E899806		1.69	10	0.55	507	1	3.56	2	620	6	<0.01	<5	4	923	<20	0.20
E899807		1.66	10	0.69	567	<1	3.77	1	790	4	<0.01	<5	6	824	<20	0.23
E899808		1.88	10	2.06	828	78	3.37	8	1140	6	0.01	<5	13	835	<20	0.52
E899809		1.77	20	0.90	630	2	3.36	2	780	3	<0.01	<5	8	971	<20	0.27
E899810		2.08	10	2.68	923	101	2.49	10	840	4	0.06	<5	18	727	<20	0.41
E899811		2.19	20	1.57	773	22	3.41	8	1070	6	<0.01	<5	15	658	<20	0.36
E899812		1.98	10	2.31	896	69	2.90	10	970	3	0.01	<5	14	648	<20	0.44
E899813		1.66	10	1.85	551	55	2.87	5	930	2	0.01	<5	11	670	<20	0.44
E899814		1.86	10	1.96	651	26	3.20	6	1010	<2	<0.01	<5	13	661	<20	0.50
E899815		2.00	10	1.94	619	8	3.15	7	1000	3	<0.01	<5	12	691	<20	0.46
E899816		1.99	10	1.79	630	10	3.05	7	1040	3	0.01	<5	11	713	<20	0.45

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18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

Sample Description	Method / Analyte / Units / LOR	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	Cu- OG62 Cu % 0.001	Cu- AA62 Cu % 0.001	Cu- AA05 Cu % 0.001
E899790		10	<10	133	<10	77		0.085	0.059
E899791		<10	<10	199	<10	112		0.483	0.248
E899792		<10	<10	133	<10	79	1.870	1.945	1.270
E899793		<10	<10	131	<10	80		0.171	0.136
E899794		<10	<10	143	<10	81		0.060	0.036
E899795		10	<10	143	<10	93		0.439	0.365
E899796		<10	<10	146	<10	78		0.321	0.203
E899797		<10	<10	128	<10	87		0.027	0.010
E899798		<10	<10	99	20	70	1.645	1.722	1.475
E899799		10	<10	105	10	77		0.943	0.768
E899800		<10	<10	86	<10	64		0.010	0.007
E899801		<10	<10	114	<10	83		0.001	0.001
E899802		<10	<10	132	<10	97		0.002	<0.001
E899803		10	<10	99	<10	76		0.002	<0.001
E899804		<10	<10	62	<10	55		0.023	0.013
E899805		<10	<10	63	<10	54		0.051	0.029
E899806		<10	<10	50	<10	45		0.082	0.045
E899807		<10	<10	62	<10	51		0.100	0.067
E899808		<10	<10	214	10	74		0.836	0.753
E899809		<10	<10	86	<10	55		0.111	0.078
E899810		<10	<10	223	10	65	1.115	1.145	0.942
E899811		<10	<10	190	10	93	1.125	1.160	0.964
E899812		<10	<10	244	<10	82		0.942	0.833
E899813		<10	<10	190	10	41		0.913	0.834
E899814		<10	<10	209	10	48		0.642	0.573
E899815		<10	<10	198	10	49		0.571	0.510
E899816		<10	<10	204	10	45		0.750	0.698

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137870

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	SPL- 21	WEI- 21		

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Cu- AA05	Cu- AA62	Cu- OG62
	ME- ICP61	ME- OG62	PUL- 31	PUL- QC

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Finalized Date: 2- OCT- 2014
Account: COPNOR

CERTIFICATE WH14137871

Project: CARMACKS COPPER

P.O. No.: COL- 14- 05

This report is for 31 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 23	Pulp Login - Rcvd with Barcode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP61	33 element four acid ICP- AES	ICP- AES
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Cu- AA62	Ore grade Cu - four acid / AAS	AAS
Cu- AA05	Cu (nonsulfide) - sulfuric	AAS
Au- AA23	Au 30g FA- AA finish	AAS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6C 3P1

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137871

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
E899817		2.61	0.124	2.0	7.92	7	510	1.5	3	3.29	<0.5	16	9	4150	5.75	20
E899818		1.01	0.110	1.4	8.27	<5	470	1.0	2	3.74	<0.5	14	7	4110	5.70	20
E899819		2.82	0.027	<0.5	7.25	<5	2140	1.3	<2	2.61	<0.5	5	5	1340	2.23	20
E899820		1.53	<0.005	<0.5	7.56	<5	2370	1.1	<2	1.86	<0.5	4	5	83	2.25	20
E899821		2.28	0.120	1.7	7.30	<5	540	1.2	3	2.69	<0.5	20	47	4570	5.46	30
E899822		3.02	0.301	7.2	7.80	<5	490	1.2	6	3.27	<0.5	25	40	>10000	6.86	30
E899823		3.06	0.204	2.6	8.66	<5	490	1.2	2	4.89	<0.5	16	11	8890	5.47	30
E899824		2.91	0.028	0.7	8.10	<5	1790	1.2	<2	2.62	<0.5	5	8	957	2.51	20
E899825		2.89	<0.005	<0.5	7.85	<5	2560	1.3	<2	2.48	<0.5	5	8	167	2.21	20
E899826		2.90	0.057	0.8	8.24	<5	1770	1.3	<2	2.73	<0.5	9	17	1660	3.72	20
E899827		2.00	<0.005	<0.5	7.96	<5	2080	1.4	<2	2.67	<0.5	4	7	75	2.19	20
E899828		2.90	<0.005	<0.5	8.35	<5	720	1.6	<2	3.85	<0.5	9	12	13	4.21	20
E899829		2.94	<0.005	<0.5	8.17	<5	860	1.6	<2	3.73	<0.5	5	7	44	3.05	20
E899830		3.04	<0.005	<0.5	8.69	<5	610	1.6	<2	3.64	<0.5	6	7	27	2.82	20
E899831		2.32	0.202	2.5	8.11	<5	1220	1.1	2	3.06	<0.5	13	8	4840	5.87	30
E899832		2.73	<0.005	<0.5	7.85	<5	1280	1.4	<2	3.15	<0.5	6	7	70	2.65	20
E899833		2.12	<0.005	<0.5	7.84	<5	2680	1.3	<2	3.09	<0.5	6	7	7	2.47	20
E899834		3.15	<0.005	<0.5	7.81	<5	2370	1.3	<2	3.11	<0.5	6	7	15	2.51	20
E899835		2.46	<0.005	<0.5	8.21	<5	2280	1.4	<2	3.46	<0.5	6	7	5	2.73	20
E899836		2.82	<0.005	<0.5	7.96	<5	2770	1.3	<2	3.09	<0.5	5	7	8	2.40	20
E899837		1.06	<0.005	<0.5	7.82	<5	1460	1.5	<2	3.47	<0.5	12	5	18	4.22	20
E899838		2.93	0.008	<0.5	7.66	<5	1660	1.3	<2	2.91	<0.5	6	11	333	2.58	20
E899839		1.55	<0.005	<0.5	8.49	<5	1830	1.2	<2	2.41	<0.5	14	30	23	4.94	20
E899840		2.62	0.008	<0.5	7.96	<5	1310	0.9	<2	6.82	0.8	21	34	87	6.53	20
E899841		2.85	<0.005	<0.5	7.91	<5	730	1.1	<2	6.12	<0.5	19	28	12	6.36	20
E899842		0.13	0.591	9.1	7.57	<5	1270	1.0	13	1.83	<0.5	8	25	>10000	3.08	20
E899843		0.13	0.434	3.7	8.52	6	1480	1.3	<2	2.58	<0.5	10	20	8790	3.78	20
E899844		0.13	0.005	<0.5	8.77	<5	940	1.4	<2	3.34	<0.5	7	19	92	3.19	20
E899932		6.87	0.157	8.4	8.22	<5	3080	1.7	11	2.59	<0.5	13	4	9440	4.74	20
E899933		11.24	1.080	25.3	7.82	<5	5220	1.7	56	2.27	<0.5	17	4	>10000	7.02	20
E899934		10.98	0.215	42.9	7.97	<5	2770	1.7	62	2.13	0.9	18	6	>10000	7.58	30

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
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Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137871

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
E899817		1.50	10	1.93	867	8	3.15	6	950	6	<0.01	<5	12	647	<20	0.42
E899818		1.39	10	1.43	661	10	3.15	7	860	7	<0.01	<5	10	782	<20	0.41
E899819		2.29	10	0.57	436	3	3.30	2	570	7	<0.01	<5	4	604	<20	0.20
E899820		2.81	10	0.57	428	1	3.49	<1	590	6	<0.01	<5	5	575	<20	0.18
E899821		1.92	10	2.43	650	11	2.60	15	1040	4	0.01	<5	13	511	<20	0.39
E899822		2.80	10	3.75	955	15	2.05	21	1350	5	0.01	<5	20	477	<20	0.52
E899823		2.14	10	1.97	741	5	2.44	11	1000	9	0.01	<5	11	797	<20	0.43
E899824		1.69	10	0.78	456	<1	3.60	2	640	9	<0.01	<5	4	930	<20	0.23
E899825		2.12	10	0.55	428	<1	3.52	<1	560	8	<0.01	<5	4	929	<20	0.19
E899826		1.92	10	1.18	783	<1	3.50	4	800	8	<0.01	<5	9	861	<20	0.30
E899827		1.93	10	0.52	495	<1	3.72	2	620	8	<0.01	<5	4	979	<20	0.18
E899828		1.24	10	1.22	1040	<1	3.91	4	1050	9	<0.01	<5	11	991	<20	0.35
E899829		1.07	10	0.81	738	1	4.28	2	1010	7	<0.01	<5	8	1090	<20	0.27
E899830		1.04	10	0.76	663	<1	4.45	1	980	9	<0.01	<5	6	1120	<20	0.26
E899831		2.24	<10	1.85	839	<1	3.31	5	1010	5	<0.01	5	9	696	<20	0.38
E899832		1.33	10	0.68	558	<1	3.71	<1	800	4	<0.01	<5	6	960	<20	0.24
E899833		2.05	10	0.61	573	<1	3.47	1	730	7	<0.01	<5	6	1010	<20	0.22
E899834		1.94	10	0.64	612	<1	3.56	1	780	10	<0.01	<5	6	1025	<20	0.23
E899835		1.83	10	0.70	676	<1	3.85	1	860	8	<0.01	<5	6	1095	<20	0.25
E899836		2.15	10	0.63	584	<1	3.65	1	760	6	<0.01	5	5	1060	<20	0.23
E899837		1.24	20	1.48	943	<1	3.29	4	1490	11	<0.01	<5	9	905	<20	0.35
E899838		1.30	10	0.78	562	<1	3.37	5	850	9	0.01	<5	4	923	<20	0.25
E899839		2.34	10	1.52	1015	1	1.83	7	1030	23	<0.01	<5	17	377	<20	0.34
E899840		1.19	10	2.56	2730	1	2.45	12	1270	20	<0.01	<5	25	710	<20	0.42
E899841		0.97	10	2.07	1770	<1	2.77	8	1270	15	<0.01	<5	24	789	<20	0.46
E899842		1.49	10	0.84	337	61	3.36	10	910	11	0.08	<5	7	864	<20	0.26
E899843		1.23	<10	0.98	626	8	4.48	7	1190	11	0.03	<5	7	1210	<20	0.28
E899844		0.85	<10	0.66	639	2	5.07	3	830	10	0.01	<5	7	1415	<20	0.21
E899932		1.12	20	1.18	751	<1	4.13	2	1570	6	0.07	<5	9	934	<20	0.35
E899933		1.17	20	1.14	775	1	3.52	1	1580	13	0.38	<5	10	900	<20	0.37
E899934		1.33	20	1.43	912	2	3.73	2	1750	12	0.22	<5	7	889	<20	0.44

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137871

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	Cu- OG62	Cu- AA62	Cu- AA05
	Analyte	Tl	U	V	W	Zn	Cu	Cu	Cu
	Units	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	10	10	1	10	2	0.001	0.001	0.001
E899817		<10	10	179	10	65		0.430	0.381
E899818		<10	<10	165	10	41		0.450	0.394
E899819		<10	<10	63	<10	37		0.141	0.113
E899820		<10	<10	57	10	36		0.009	0.004
E899821		10	<10	194	<10	63		0.495	0.379
E899822		10	<10	285	10	117	1.105	1.195	0.920
E899823		10	10	252	<10	89		0.903	0.798
E899824		<10	<10	74	<10	52		0.105	0.072
E899825		<10	<10	57	<10	45		0.017	0.009
E899826		<10	<10	109	<10	74		0.173	0.129
E899827		<10	<10	53	<10	42		0.008	0.004
E899828		<10	<10	105	<10	90		0.001	0.001
E899829		<10	<10	77	<10	65		0.005	0.002
E899830		<10	<10	72	<10	60		0.002	0.001
E899831		<10	<10	165	<10	77		0.474	0.376
E899832		<10	<10	66	<10	54		0.007	0.004
E899833		<10	<10	61	<10	50		<0.001	<0.001
E899834		<10	<10	63	<10	52		0.002	0.001
E899835		<10	<10	66	<10	56		0.001	<0.001
E899836		<10	<10	58	<10	49		0.001	<0.001
E899837		10	<10	105	<10	88		0.002	<0.001
E899838		<10	<10	67	20	69		0.035	0.022
E899839		<10	<10	160	<10	206		0.003	<0.001
E899840		<10	<10	218	<10	391		0.010	0.003
E899841		10	<10	222	<10	150		0.002	<0.001
E899842		<10	<10	91	20	66	1.630	1.683	1.505
E899843		<10	<10	99	10	73		0.915	0.770
E899844		<10	<10	80	<10	59		0.010	0.007
E899932		<10	<10	139	<10	78		0.957	0.892
E899933		<10	<10	219	<10	96	3.24	3.331	2.58
E899934		<10	<10	249	<10	112	3.39	3.541	3.10

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VANCOUVER BC V6C 3P1

Finalized Date: 2- OCT- 2014
Account: COPNOR

Project: CARMACKS COPPER

CERTIFICATE OF ANALYSIS WH14137871

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU- 31	CRU- QC	LOG- 21	LOG- 23
	PUL- 31	PUL- QC	SPL- 21	WEI- 21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au- AA23	Cu- AA05	Cu- AA62	Cu- OG62
	ME- ICP61	ME- OG62		

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

CERTIFICATE WH14146247

Project: Carmacks Copper

P.O. No.: COL- 14- 05

This report is for 30 Soil samples submitted to our lab in Whitehorse, YT, Canada on 18- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41L	51 anal. aqua regia ICPMS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

QC CERTIFICATE OF ANALYSIS WH14146247

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41L

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME- MS41L

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VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- MS41L Au ppm 0.0002	ME- MS41L Ag ppm 0.001	ME- MS41L Al % 0.01	ME- MS41L As ppm 0.01	ME- MS41L B ppm 10	ME- MS41L Ba ppm 0.5	ME- MS41L Be ppm 0.01	ME- MS41L Bi ppm 0.001	ME- MS41L Ca % 0.01	ME- MS41L Cd ppm 0.001	ME- MS41L Ce ppm 0.003	ME- MS41L Co ppm 0.001	ME- MS41L Cr ppm 0.01	ME- MS41L Cs ppm 0.005
L14- 3/825N		0.35	0.0003	0.048	1.73	4.35	<10	173.5	0.43	0.100	0.38	0.044	19.35	8.90	24.7	0.688
L14- 3/850N		0.32	0.0002	0.036	1.90	4.54	<10	118.0	0.46	0.103	0.53	0.075	12.80	9.37	16.55	0.714
L14- 3/875N		0.26	<0.0002	0.034	1.20	2.40	<10	132.0	0.26	0.128	0.20	0.055	14.00	6.72	19.55	0.597
L14- 3/900N		0.36	<0.0002	0.035	1.49	3.40	<10	173.5	0.29	0.087	0.34	0.040	14.55	7.15	18.85	0.455
L14- 3/925N		0.27	0.0002	0.063	1.31	4.42	<10	198.5	0.31	0.124	0.33	0.028	15.80	7.55	25.0	0.496
L14- 3/950N		0.43	<0.0002	0.031	1.58	5.93	<10	207	0.30	0.112	0.42	0.042	17.25	7.57	25.0	0.501
L14- 3/975N		0.19	0.0005	0.068	1.07	5.08	<10	173.0	0.24	0.075	1.14	0.064	15.10	5.93	18.15	0.401
L14- 3/1050N		0.23	0.0014	0.167	1.04	5.86	<10	686	0.51	0.096	2.36	0.476	16.10	13.50	19.15	0.569
L14- 3/1075N		0.26	<0.0002	0.015	1.23	3.46	<10	206	0.19	0.089	0.27	0.026	12.90	6.14	18.95	0.293
L14- 3/1100N		0.31	<0.0002	0.023	1.72	3.09	<10	165.5	0.49	0.071	0.32	0.040	13.45	8.09	18.80	0.731
L14- 3/1125N		0.34	<0.0002	0.019	1.39	5.30	<10	149.5	0.39	0.093	0.21	0.027	15.80	6.50	25.2	0.489
L14- 3/1150N		0.28	<0.0002	0.016	1.22	3.23	<10	140.0	0.31	0.090	0.23	0.015	13.00	5.59	17.30	0.688
L14- 3/1175N		0.37	0.0026	0.022	1.56	5.09	<10	129.5	0.27	0.096	0.22	0.032	16.55	7.01	24.2	0.667
L14- 3/1200N		0.33	<0.0002	0.021	1.58	5.10	<10	137.0	0.32	0.116	0.21	0.025	15.25	6.66	26.3	0.711
L14- 3/1225N		0.28	<0.0002	0.028	1.32	2.06	<10	212	0.29	0.118	0.27	0.061	15.40	10.55	19.20	0.448
L14- 3/1250N		0.31	0.0004	0.021	1.39	4.60	<10	188.5	0.31	0.110	0.24	0.041	16.05	7.66	24.7	0.514
L14- 3/1275N		0.33	0.0002	0.015	1.51	6.51	<10	188.5	0.38	0.124	0.22	0.035	15.75	7.85	30.4	0.624
L14- 3/1300N		0.35	<0.0002	0.015	1.21	5.14	<10	166.0	0.34	0.090	0.34	0.022	20.3	6.60	27.0	0.553
L14- 3/1325N		0.28	<0.0002	0.026	0.84	3.96	<10	137.0	0.17	0.104	0.27	0.035	16.65	4.21	18.40	0.352
L14- 3/1350N		0.28	0.0005	0.028	1.58	5.17	<10	197.5	0.41	0.125	0.23	0.060	16.35	7.43	29.9	0.571
L14- 3/1375N		0.35	<0.0002	0.009	1.57	5.51	<10	105.0	0.36	0.093	0.35	0.030	14.40	6.79	21.7	0.526
L14- 3/1400N		0.39	0.0002	0.032	1.23	3.18	<10	143.5	0.29	0.114	0.28	0.048	15.20	6.90	22.5	0.524
L14- 3/1425N		0.29	0.0002	0.024	1.23	2.17	<10	190.5	0.37	0.104	0.31	0.064	15.00	8.25	19.50	0.465
L14- 3/1450N		0.37	0.0002	0.016	1.26	5.27	<10	124.0	0.37	0.111	0.25	0.023	19.25	6.69	25.5	0.580
L14- 3/1475N		0.32	0.0038	0.016	1.60	4.03	<10	152.0	0.40	0.097	0.29	0.031	16.80	7.04	26.3	0.475
L14- 3/1500N		0.34	<0.0002	0.020	1.48	2.61	<10	135.5	0.41	0.071	0.31	0.008	14.70	7.00	19.20	0.408
L14- 3/1525N		0.32	<0.0002	0.012	1.79	3.29	<10	104.0	0.41	0.065	0.44	0.036	13.35	8.06	22.2	0.645
L14- 3/1550N		0.47	<0.0002	0.055	1.97	1.85	<10	122.5	0.31	0.043	2.43	0.057	16.00	23.7	13.30	0.437
L14- 3/1575N		0.41	<0.0002	0.017	1.29	1.41	<10	89.5	0.27	0.042	0.58	0.028	8.32	14.10	22.3	0.400
L14- 3/1600N		0.37	0.0003	0.021	1.37	2.25	<10	110.5	0.25	0.048	0.81	0.024	10.45	11.30	12.95	0.189

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	ME- MS41L Cu ppm 0.01	ME- MS41L Fe % 0.001	ME- MS41L Ga ppm 0.004	ME- MS41L Ge ppm 0.005	ME- MS41L Hf ppm 0.002	ME- MS41L Hg ppm 0.004	ME- MS41L In ppm 0.005	ME- MS41L K % 0.01	ME- MS41L La ppm 0.002	ME- MS41L Li ppm 0.1	ME- MS41L Mg % 0.01	ME- MS41L Mn ppm 0.1	ME- MS41L Mo ppm 0.01	ME- MS41L Na % 0.001	ME- MS41L Nb ppm 0.002
L14- 3/825N		16.40	2.57	7.24	0.051	0.096	0.014	0.016	0.19	11.65	14.2	0.60	399	0.44	0.019	0.926
L14- 3/850N		13.45	2.91	9.18	0.047	0.048	0.008	0.015	0.12	6.89	14.4	0.60	335	0.52	0.015	1.090
L14- 3/875N		10.60	1.880	5.21	0.029	0.044	0.007	0.007	0.05	7.07	8.1	0.28	191.5	0.53	0.010	1.065
L14- 3/900N		18.95	2.08	6.48	0.025	0.075	<0.004	0.010	0.05	7.19	11.0	0.40	255	0.49	0.017	0.757
L14- 3/925N		18.95	1.950	4.94	0.027	0.072	0.008	0.012	0.04	7.88	9.2	0.34	256	0.77	0.014	0.923
L14- 3/950N		13.85	2.13	5.64	0.034	0.095	0.016	0.017	0.05	8.52	12.4	0.44	300	0.52	0.014	1.035
L14- 3/975N		13.50	1.590	4.01	0.030	0.035	0.021	0.010	0.04	6.99	9.9	0.34	174.0	0.31	0.025	0.869
L14- 3/1050N		62.7	2.67	3.16	0.038	0.130	0.159	0.009	0.02	9.54	4.9	0.24	2120	1.66	0.021	0.714
L14- 3/1075N		15.05	1.890	4.75	0.027	0.028	0.007	0.013	0.05	6.96	8.4	0.40	305	0.52	0.010	0.735
L14- 3/1100N		10.25	2.42	7.93	0.031	0.065	0.008	0.019	0.06	7.20	13.2	0.60	386	0.40	0.012	0.659
L14- 3/1125N		19.70	2.07	5.45	0.026	0.099	0.010	0.019	0.04	9.17	10.9	0.42	228	0.55	0.012	0.463
L14- 3/1150N		9.61	1.830	5.07	0.020	0.065	<0.004	0.015	0.04	6.47	9.5	0.33	162.0	0.45	0.010	0.579
L14- 3/1175N		17.10	2.16	5.53	0.013	0.077	<0.004	0.015	0.05	8.49	11.9	0.45	191.5	0.64	0.011	0.688
L14- 3/1200N		13.20	2.22	5.54	0.027	0.068	0.010	0.020	0.06	7.76	10.9	0.42	179.0	0.59	0.012	0.825
L14- 3/1225N		18.15	1.960	5.66	0.030	0.088	0.011	0.017	0.03	7.53	8.1	0.29	683	0.48	0.015	0.910
L14- 3/1250N		18.50	2.01	5.19	0.035	0.076	0.005	0.015	0.04	8.19	11.2	0.39	417	0.60	0.011	0.845
L14- 3/1275N		16.10	2.23	5.15	0.033	0.109	0.012	0.014	0.06	8.12	12.8	0.45	231	0.68	0.015	0.613
L14- 3/1300N		14.15	1.900	4.20	0.033	0.036	0.029	0.011	0.05	9.67	11.3	0.45	184.5	0.41	0.016	0.657
L14- 3/1325N		7.88	1.490	3.91	0.036	0.038	<0.004	<0.005	0.07	8.29	8.2	0.30	134.5	0.41	0.014	0.733
L14- 3/1350N		13.40	2.27	5.67	0.022	0.086	0.012	0.015	0.07	8.37	11.0	0.44	222	0.65	0.015	0.719
L14- 3/1375N		15.80	2.43	7.08	0.032	0.065	0.004	0.020	0.06	7.22	14.5	0.49	234	0.57	0.011	0.721
L14- 3/1400N		12.20	1.870	5.47	0.029	0.059	0.008	0.010	0.05	7.77	11.4	0.38	271	0.57	0.017	0.981
L14- 3/1425N		28.3	2.00	5.58	0.024	0.082	0.018	0.012	0.07	7.89	9.6	0.34	564	0.55	0.013	0.751
L14- 3/1450N		11.00	1.940	4.74	0.029	0.092	0.009	0.013	0.09	9.79	11.4	0.42	229	0.54	0.012	0.607
L14- 3/1475N		23.8	2.21	6.20	0.030	0.126	0.006	0.016	0.05	9.19	12.1	0.47	227	0.53	0.014	0.447
L14- 3/1500N		21.4	2.11	6.93	0.032	0.095	0.007	0.012	0.06	7.52	11.3	0.48	222	0.45	0.015	0.641
L14- 3/1525N		17.15	2.36	7.58	0.036	0.088	0.011	0.012	0.06	6.52	15.5	0.62	232	0.40	0.018	0.596
L14- 3/1550N		388	4.53	9.02	0.112	0.097	0.007	0.018	0.07	6.74	16.4	1.19	307	0.16	0.069	0.266
L14- 3/1575N		13.30	3.68	5.88	0.063	0.088	<0.004	0.012	0.06	4.14	9.1	0.75	229	0.29	0.057	0.250
L14- 3/1600N		21.0	2.43	4.98	0.052	0.116	<0.004	0.014	0.08	4.73	8.4	0.86	175.5	0.24	0.083	0.242

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
	Analyte	Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.04	0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
L14- 3/825N		12.50	0.047	6.23	0.001	<0.002	20.3	<0.001	0.01	0.234	3.55	0.1	0.47	32.8	<0.005	0.02
L14- 3/850N		10.45	0.091	6.69	<0.001	<0.002	23.1	<0.001	0.01	0.198	3.25	<0.1	0.55	38.2	<0.005	0.01
L14- 3/875N		9.65	0.029	6.39	<0.001	<0.002	10.50	<0.001	0.01	0.308	1.795	0.2	0.47	19.45	<0.005	0.02
L14- 3/900N		10.15	0.042	5.86	<0.001	<0.002	7.86	<0.001	0.01	0.200	2.49	0.2	0.47	36.7	<0.005	0.01
L14- 3/925N		12.25	0.023	7.09	<0.001	<0.002	7.49	<0.001	0.01	0.273	2.98	<0.1	0.51	33.8	<0.005	0.03
L14- 3/950N		12.70	0.037	6.55	<0.001	<0.002	6.07	<0.001	0.01	0.228	3.50	0.1	0.46	39.2	<0.005	0.01
L14- 3/975N		9.76	0.051	4.84	0.002	<0.002	4.64	<0.001	0.06	0.169	2.90	0.5	0.31	127.5	<0.005	0.01
L14- 3/1050N		17.95	0.132	4.46	0.005	<0.002	3.24	<0.001	0.17	0.800	3.29	1.5	0.28	127.5	<0.005	0.07
L14- 3/1075N		9.84	0.035	5.28	0.001	<0.002	6.44	<0.001	0.01	0.204	2.29	0.1	0.39	29.3	<0.005	0.02
L14- 3/1100N		9.89	0.056	6.35	0.004	<0.002	11.10	<0.001	0.01	0.195	3.15	0.1	0.45	37.3	<0.005	0.02
L14- 3/1125N		12.65	0.024	5.82	<0.001	<0.002	7.04	<0.001	0.01	0.359	2.97	0.1	0.48	21.8	<0.005	0.02
L14- 3/1150N		8.53	0.030	5.39	0.001	<0.002	6.97	<0.001	<0.01	0.201	1.805	0.1	0.42	22.0	<0.005	0.01
L14- 3/1175N		12.60	0.027	6.15	<0.001	<0.002	9.05	<0.001	0.01	0.279	2.53	0.3	0.46	24.5	<0.005	0.02
L14- 3/1200N		13.30	0.036	6.65	0.001	<0.002	11.35	<0.001	0.01	0.323	2.71	0.1	0.52	22.4	<0.005	0.01
L14- 3/1225N		10.20	0.031	7.01	<0.001	<0.002	5.92	<0.001	0.01	0.195	2.28	<0.1	0.50	26.9	<0.005	<0.01
L14- 3/1250N		14.00	0.027	6.88	0.001	<0.002	7.82	<0.001	0.01	0.276	2.72	0.2	0.51	25.0	<0.005	0.01
L14- 3/1275N		16.00	0.018	6.83	<0.001	<0.002	8.99	<0.001	0.01	0.414	3.11	0.3	0.45	25.9	<0.005	0.02
L14- 3/1300N		14.15	0.045	6.48	<0.001	<0.002	8.34	<0.001	0.01	0.273	2.83	0.2	0.38	25.4	<0.005	0.03
L14- 3/1325N		8.72	0.034	6.13	0.001	<0.002	8.28	<0.001	0.01	0.153	2.34	<0.1	0.40	23.1	<0.005	0.03
L14- 3/1350N		15.50	0.021	7.09	<0.001	<0.002	11.60	<0.001	0.01	0.363	3.19	0.1	0.54	27.9	<0.005	0.01
L14- 3/1375N		11.20	0.045	6.72	<0.001	<0.002	7.09	<0.001	0.01	0.246	3.27	0.1	0.45	63.0	<0.005	0.02
L14- 3/1400N		10.50	0.033	6.83	<0.001	<0.002	7.81	<0.001	0.01	0.220	3.03	0.1	0.51	23.6	<0.005	0.02
L14- 3/1425N		11.10	0.042	6.57	<0.001	<0.002	11.20	<0.001	0.01	0.217	3.20	0.1	0.50	31.8	<0.005	0.01
L14- 3/1450N		12.40	0.028	6.68	<0.001	<0.002	16.10	<0.001	0.01	0.285	3.52	<0.1	0.51	23.1	<0.005	0.01
L14- 3/1475N		12.70	0.029	6.15	<0.001	<0.002	6.37	<0.001	0.01	0.270	3.43	0.1	0.53	29.5	<0.005	0.01
L14- 3/1500N		10.20	0.046	6.06	0.002	<0.002	7.09	<0.001	0.01	0.181	2.90	<0.1	0.49	35.8	<0.005	0.02
L14- 3/1525N		11.70	0.064	5.47	0.001	<0.002	7.74	<0.001	0.01	0.182	3.84	0.1	0.43	45.8	<0.005	0.02
L14- 3/1550N		10.60	0.950	2.59	0.002	<0.002	6.11	<0.001	0.01	0.128	7.31	0.3	0.32	111.0	<0.005	0.02
L14- 3/1575N		17.70	0.058	2.55	0.004	<0.002	6.60	<0.001	0.01	0.093	6.65	0.1	0.34	33.5	<0.005	0.01
L14- 3/1600N		12.70	0.141	2.55	0.007	<0.002	3.95	<0.001	<0.01	0.122	8.20	0.1	0.32	40.0	<0.005	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
L14- 3/825N		2.73	0.117	0.109	1.165	66.4	0.150	4.24	63.2	3.82
L14- 3/850N		1.755	0.146	0.063	0.404	74.7	0.191	3.20	63.2	2.43
L14- 3/875N		1.650	0.077	0.077	0.287	49.7	0.139	2.11	41.1	2.44
L14- 3/900N		1.745	0.083	0.066	0.356	53.1	0.156	2.88	43.9	3.31
L14- 3/925N		2.09	0.072	0.090	0.610	53.6	0.220	2.75	35.0	2.80
L14- 3/950N		2.52	0.081	0.067	0.938	55.4	0.176	3.41	41.9	3.85
L14- 3/975N		1.305	0.061	0.057	1.715	50.3	0.142	3.02	32.8	1.37
L14- 3/1050N		1.130	0.037	0.046	1.735	54.1	0.153	9.90	21.5	4.61
L14- 3/1075N		1.680	0.061	0.059	0.316	48.6	0.147	2.34	51.0	1.38
L14- 3/1100N		2.22	0.097	0.067	0.401	56.7	0.107	3.15	87.4	2.68
L14- 3/1125N		2.72	0.066	0.067	0.377	52.2	0.138	2.95	49.7	3.51
L14- 3/1150N		1.735	0.067	0.061	0.314	47.8	0.127	2.16	54.6	2.73
L14- 3/1175N		2.18	0.083	0.083	0.362	56.6	0.167	2.45	52.5	3.01
L14- 3/1200N		2.43	0.077	0.078	0.370	55.1	0.159	2.26	62.2	2.83
L14- 3/1225N		1.980	0.065	0.086	0.311	47.5	0.161	2.76	56.7	3.44
L14- 3/1250N		2.50	0.073	0.079	0.355	51.5	0.168	2.76	48.8	3.32
L14- 3/1275N		2.99	0.081	0.074	0.377	56.4	0.170	2.58	43.2	4.03
L14- 3/1300N		2.83	0.083	0.050	0.467	48.4	0.179	4.17	35.4	1.61
L14- 3/1325N		2.11	0.087	0.064	0.364	43.8	0.187	3.20	28.2	1.78
L14- 3/1350N		2.98	0.087	0.084	0.411	56.8	0.211	2.72	54.4	3.52
L14- 3/1375N		2.31	0.098	0.057	0.433	65.2	0.135	3.47	52.9	2.61
L14- 3/1400N		2.36	0.073	0.055	0.337	48.9	0.147	2.82	52.4	2.58
L14- 3/1425N		2.13	0.061	0.077	0.339	45.9	0.108	3.38	68.2	3.61
L14- 3/1450N		3.05	0.084	0.075	0.456	50.2	0.148	3.44	48.9	3.42
L14- 3/1475N		2.50	0.093	0.068	0.364	59.3	0.134	3.56	61.4	4.41
L14- 3/1500N		1.930	0.081	0.055	0.302	56.8	0.120	3.65	71.4	3.33
L14- 3/1525N		1.805	0.119	0.052	0.298	65.3	0.234	3.73	48.1	3.29
L14- 3/1550N		1.105	0.144	0.045	0.291	184.0	0.105	9.18	65.8	4.09
L14- 3/1575N		0.898	0.134	0.039	0.189	150.5	0.086	2.70	39.2	3.68
L14- 3/1600N		1.350	0.128	0.032	0.243	91.4	0.111	3.81	30.9	3.75

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

CERTIFICATE OF ANALYSIS WH14146247

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41L

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME- MS41L

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QC CERTIFICATE WH14146247

Project: Carmacks Copper

P.O. No.: COL- 14- 05

This report is for 30 Soil samples submitted to our lab in Whitehorse, YT, Canada on 18- SEP- 2014.

The following have access to data associated with this certificate:

SCOTT CASSELMAN	DOUG RAMSEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME- MS41L	51 anal. aqua regia ICPMS

To: COPPER NORTH
ATTN: SCOTT CASSELMAN
33 FIRSTH ROAD
WHITHORSE YT Y1A 4R5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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Project: Carmacks Copper

QC CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	ME- MS41L Au ppm 0.0002	ME- MS41L Ag ppm 0.001	ME- MS41L Al % 0.01	ME- MS41L As ppm 0.01	ME- MS41L B ppm 10	ME- MS41L Ba ppm 0.5	ME- MS41L Be ppm 0.01	ME- MS41L Bi ppm 0.001	ME- MS41L Ca % 0.01	ME- MS41L Cd ppm 0.001	ME- MS41L Ce ppm 0.003	ME- MS41L Co ppm 0.001	ME- MS41L Cr ppm 0.01	ME- MS41L Cs ppm 0.005	ME- MS41L Cu ppm 0.01
STANDARDS																
GBM908- 10		0.435	3.02	0.90	55.7	<10	102.5	0.30	1.295	0.64	1.755	92.8	14.40	22.5	0.738	3550
Target Range - Lower Bound		0.401	2.70	0.85	49.5	<10	88.8	0.26	1.095	0.62	1.530	79.3	12.35	21.0	0.715	3380
Upper Bound		0.491	3.30	1.06	60.5	30	121.5	0.34	1.345	0.79	1.870	97.0	15.15	25.7	0.885	3880
OREAS 90		0.0003	0.041	2.15	4.56	<10	51.1	0.64	0.977	0.36	<0.001	63.0	14.50	38.3	1.000	105.5
Target Range - Lower Bound		<0.0002	0.042	2.09	4.20	<10	42.0	0.54	0.827	0.33	0.003	54.5	13.75	36.4	0.904	102.5
Upper Bound		0.0010	0.054	2.57	5.15	20	58.0	0.68	1.015	0.43	0.007	66.7	16.85	44.5	1.115	117.5
BLANKS																
BLANK		<0.0002	0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
Target Range - Lower Bound		<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
Upper Bound		0.0004	0.002	0.02	0.02	20	1.0	0.02	0.002	0.02	0.002	0.006	0.002	0.02	0.010	0.02
DUPLICATES																
L14- 3/1050N		0.0014	0.167	1.04	5.86	<10	686	0.51	0.096	2.36	0.476	16.10	13.50	19.15	0.569	62.7
DUP		0.0021	0.166	1.10	5.55	<10	712	0.55	0.097	2.48	0.440	15.65	13.05	18.65	0.556	61.8
Target Range - Lower Bound		0.0015	0.157	1.01	5.41	<10	646	0.49	0.091	2.29	0.434	15.10	12.60	17.95	0.529	60.1
Upper Bound		0.0020	0.176	1.13	6.00	20	752	0.57	0.102	2.55	0.482	16.65	13.95	19.85	0.596	64.4

***** See Appendix Page for comments regarding this certificate *****

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To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

QC CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	ME- MS41L Fe % 0.001	ME- MS41L Ga ppm 0.004	ME- MS41L Ge ppm 0.005	ME- MS41L Hf ppm 0.002	ME- MS41L Hg ppm 0.004	ME- MS41L In ppm 0.005	ME- MS41L K % 0.01	ME- MS41L La ppm 0.002	ME- MS41L Li ppm 0.1	ME- MS41L Mg % 0.01	ME- MS41L Mn ppm 0.1	ME- MS41L Mo ppm 0.01	ME- MS41L Na % 0.001	ME- MS41L Nb ppm 0.002	ME- MS41L Ni ppm 0.04
STANDARDS																
GBM908- 10		2.52	4.71	0.112	0.717	0.021	0.024	0.40	49.2	6.1	0.50	279	60.7	0.119	0.437	2200
Target Range - Lower Bound		2.36	4.23	0.121	0.602	0.007	0.012	0.37	42.7	5.5	0.47	264	57.9	0.113	0.347	2030
Upper Bound		2.88	5.17	0.159	0.740	0.026	0.034	0.48	52.3	6.9	0.59	322	70.8	0.141	0.429	2480
OREAS 90		3.47	6.23	0.090	0.684	<0.004	0.029	0.34	29.1	18.4	1.29	559	0.37	0.014	0.342	79.2
Target Range - Lower Bound		3.40	5.82	0.071	0.628	<0.004	0.016	0.31	28.1	17.1	1.21	520	0.35	0.012	0.313	77.4
Upper Bound		4.16	7.13	0.099	0.772	0.008	0.038	0.40	34.3	21.1	1.50	636	0.45	0.018	0.387	94.6
BLANKS																
BLANK		<0.001	0.005	0.009	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Target Range - Lower Bound		<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound		0.002	0.008	0.010	0.004	0.008	0.010	0.02	0.004	0.2	0.02	0.2	0.02	0.002	0.004	0.08
DUPLICATES																
L14- 3/1050N		2.67	3.16	0.038	0.130	0.159	0.009	0.02	9.54	4.9	0.24	2120	1.66	0.021	0.714	17.95
DUP		2.81	3.27	0.043	0.114	0.146	0.011	0.03	9.27	5.0	0.25	2200	1.69	0.024	0.668	17.40
Target Range - Lower Bound		2.60	3.05	0.033	0.114	0.137	<0.005	<0.01	8.93	4.6	0.22	2050	1.58	0.020	0.654	16.75
Upper Bound		2.88	3.38	0.048	0.130	0.168	0.016	0.04	9.88	5.3	0.27	2270	1.77	0.025	0.728	18.60

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VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

QC CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	ME- MS41L P % 0.001	ME- MS41L Pb ppm 0.005	ME- MS41L Pd ppm 0.001	ME- MS41L Pt ppm 0.002	ME- MS41L Rb ppm 0.005	ME- MS41L Re ppm 0.001	ME- MS41L S % 0.01	ME- MS41L Sb ppm 0.005	ME- MS41L Sc ppm 0.005	ME- MS41L Se ppm 0.1	ME- MS41L Sn ppm 0.01	ME- MS41L Sr ppm 0.01	ME- MS41L Ta ppm 0.005	ME- MS41L Te ppm 0.01	ME- MS41L Th ppm 0.002
STANDARDS																
GBM908- 10		0.084	1960	<0.001	0.007	28.7	<0.001	0.36	1.340	1.980	0.7	1.64	33.3	<0.005	0.04	15.10
Target Range - Lower Bound		0.076	1860	<0.001	0.003	26.5	<0.001	0.33	1.100	1.885	0.7	1.52	31.0	<0.005	0.02	14.50
Upper Bound		0.096	2270	0.004	0.012	32.3	0.003	0.43	1.500	2.32	1.1	1.88	37.9	0.021	0.07	17.75
OREAS 90		0.062	4.72	0.001	<0.002	18.90	<0.001	0.07	0.431	2.18	0.8	1.22	10.55	0.014	0.02	15.00
Target Range - Lower Bound		0.057	4.95	<0.001	<0.002	18.15	<0.001	0.05	0.378	2.15	0.6	1.15	10.25	0.009	<0.01	14.50
Upper Bound		0.072	6.06	0.004	0.006	22.2	0.002	0.09	0.523	2.63	1.1	1.43	12.55	0.031	0.05	17.70
BLANKS																
BLANK		<0.001	0.011	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
Target Range - Lower Bound		<0.001	<0.005			<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
Upper Bound		0.002	0.010			0.010	0.002	0.02	0.010	0.010	0.2	0.02	0.02	0.010	0.02	0.004
DUPLICATES																
L14- 3/1050N		0.132	4.46	0.005	<0.002	3.24	<0.001	0.17	0.800	3.29	1.5	0.28	127.5	<0.005	0.07	1.130
DUP		0.138	4.58	0.003	<0.002	3.35	<0.001	0.17	1.080	2.90	1.7	0.25	129.0	<0.005	0.02	1.140
Target Range - Lower Bound		0.127	4.29	0.003	<0.002	3.13	<0.001	0.15	0.865	2.94	1.4	0.24	122.0	<0.005	0.03	1.075
Upper Bound		0.143	4.75	0.005	0.004	3.46	0.002	0.19	1.015	3.25	1.8	0.29	134.5	0.010	0.06	1.195

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: COPPER NORTH
18TH FLOOR, 570 GRANVILLE ST.
VANCOUVER BC V6C 3P1

Finalized Date: 25- SEP- 2014
Account: COPNOR

Project: Carmacks Copper

QC CERTIFICATE OF ANALYSIS WH14146247

Sample Description	Method Analyte Units LOR	ME- MS41L Ti % 0.001	ME- MS41L Tl ppm 0.002	ME- MS41L U ppm 0.005	ME- MS41L V ppm 0.1	ME- MS41L W ppm 0.001	ME- MS41L Y ppm 0.003	ME- MS41L Zn ppm 0.1	ME- MS41L Zr ppm 0.01
STANDARDS									
GBM908- 10		0.308	0.213	1.230	47.4	1.910	19.60	965	28.1
Target Range - Lower Bound		0.280	0.178	1.140	42.2	1.675	17.60	941	24.0
Upper Bound		0.344	0.245	1.400	51.8	2.27	21.5	1150	32.4
OREAS 90		0.081	0.110	1.990	19.8	0.468	16.15	55.2	24.9
Target Range - Lower Bound		0.075	0.092	1.860	19.7	0.356	15.45	52.6	21.1
Upper Bound		0.094	0.129	2.28	24.3	0.484	18.90	64.5	28.6
BLANKS									
BLANK		<0.001	0.003	<0.005	0.1	<0.001	<0.003	<0.1	<0.01
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
Upper Bound		0.002	0.004	0.010	0.2	0.002	0.006	0.2	0.02
DUPLICATES									
L14- 3/1050N		0.037	0.046	1.735	54.1	0.153	9.90	21.5	4.61
DUP		0.038	0.049	1.735	52.0	0.137	9.47	21.0	4.19
Target Range - Lower Bound		0.035	0.042	1.645	50.3	0.133	9.20	20.1	4.06
Upper Bound		0.040	0.053	1.825	55.8	0.157	10.15	22.4	4.74

***** See Appendix Page for comments regarding this certificate *****

Bureau Veritas Commodities Canada Ltd. **Final Report**

Client: Copper North Mining Corp
File Created: 22-Jan-2015
Job Number: WHI14000216
Number of Samples: 17
Project: Carmacks Copper
Shipment ID:
P.O. Number:
Received: 18-Sep-2014

	Method	WGHT	FA330	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250	MA250
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr
	Unit	KG	PPB	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM
	MDL	0.01	2	0.05	0.02	0.02	0.2	20	0.1	0.2	2	0.02	0.2	0.1	0.1	1
Sample	**Type**															
494701	Drill Core	1.45	81	30.27	>10000.00	8.96	112.9	13456	24.2	26.2	1114	5.55	3.9	2.9	4.4	576
494702	Drill Core	0.95	73	0.99	983.53	12.31	36.6	4387	3.1	7.7	714	5.05	4.5	0.6	5.9	1753
494703	Drill Core	1.43	3	0.46	974.60	5.26	115.6	449	4.4	15.5	817	4.63	2.4	0.8	3.4	1232
494704	Drill Core	1.47	10	0.19	920.16	5.00	62.9	4162	3.4	10.4	704	3.95	2.6	0.3	2.1	1401
494705	Drill Core	1.23	4	0.23	308.87	8.00	77.6	468	3.9	10.2	715	3.53	3.4	0.3	2.3	1253
494706	Drill Core	1.50	8	0.98	2648.29	6.18	84.8	1591	4.3	18.4	926	5.50	4.6	1.6	6.8	1754
494707	Drill Core	1.08	152	0.24	>10000.00	6.50	118.1	9822	4.8	22.2	977	6.05	5.4	0.7	9.8	1236
494708	Drill Core	1.30	29	0.31	855.76	5.89	82.2	672	3.1	13.9	831	4.41	5.4	0.3	1.8	1073
494709	Drill Core	1.39	15	0.17	1274.97	4.37	96.9	662	4.2	16.1	901	4.78	3.2	0.6	4.1	1173
494710	Drill Core	1.35	80	0.27	2162.93	5.46	101.0	1835	4.2	17.9	1137	5.74	3.7	0.5	3.7	1051
494711	Drill Core	1.34	21	0.22	1041.88	7.42	79.9	942	2.7	12.9	801	4.38	4.6	0.5	2.2	650
494712	Drill Core	1.29	10	0.26	606.50	6.04	107.5	294	4.0	15.7	1011	5.17	5.7	0.4	1.8	1276
494713	Drill Core	1.34	<2	0.20	13.62	5.19	77.8	36	3.7	10.4	889	4.01	3.5	0.2	1.4	1084
494714	Drill Core	1.73	3	1.12	82.13	5.61	35.2	142	2.0	4.5	437	2.09	3.6	0.3	2.5	519
494715	Rock Pulp	0.14	645	64.79	>10000.00	8.24	71.9	10020	11.2	8.3	360	3.16	3.0	0.9	1.9	853
494716	Rock Pulp	0.14	442	9.70	9239.75	9.80	74.5	3998	9.3	10.6	696	3.97	2.5	0.7	1.4	1238
494717	Rock Pulp	0.13	5	2.55	89.02	10.82	63.9	73	7.3	6.7	682	3.20	2.1	0.4	0.5	1446

MA250 Cd PPM	MA250 Sb PPM	MA250 Bi PPM	MA250 V PPM	MA250 Ca %	MA250 P %	MA250 La PPM	MA250 Cr PPM	MA250 Mg %	MA250 Ba PPM	MA250 Ti %	MA250 Al %	MA250 Na %	MA250 K %	MA250 W PPM	MA250 Zr PPM	MA250 Sn PPM	MA250 Be PPM
0.02	0.02	0.04	1	0.02	0.001	0.1	1	0.02	1	0.001	0.02	0.002	0.02	0.1	0.2	0.1	1
0.82	0.29	9.30	212	2.84	0.170	17.1	104	2.67	1602	0.387	7.02	2.292	1.82	12.7	23.3	2.7	3
0.70	1.55	2.31	164	7.57	0.122	27.4	5	0.49	621	0.339	9.02	1.631	1.23	2.5	19.4	1.9	3
0.17	0.48	0.18	143	3.52	0.152	20.0	7	1.45	1111	0.395	10.11	5.105	1.00	0.6	22.2	1.7	2
0.05	0.75	0.18	131	4.71	0.090	14.0	7	0.89	579	0.288	9.31	4.609	0.99	0.4	9.9	1.1	<1
0.39	0.75	0.19	111	3.48	0.097	13.4	6	1.02	1095	0.303	9.00	4.506	1.13	0.4	8.7	1.3	2
0.24	0.92	0.44	181	4.86	0.196	30.0	7	1.44	744	0.487	9.98	4.164	1.10	0.7	28.6	2.0	2
0.09	0.07	3.24	189	3.92	0.231	37.9	7	1.76	2451	0.546	9.10	4.291	0.75	0.1	32.2	1.7	2
0.09	0.04	0.21	137	4.44	0.148	10.2	6	1.26	571	0.381	9.29	4.843	0.72	0.1	20.2	1.7	2
0.18	<0.02	0.52	145	3.14	0.171	21.1	6	1.64	1204	0.414	9.45	4.807	1.11	0.1	33.5	1.5	1
0.09	0.06	0.88	183	4.01	0.246	15.7	7	1.82	851	0.482	9.06	4.508	0.97	0.2	25.6	2.1	3
0.12	0.03	0.38	148	4.91	0.158	11.2	6	1.25	633	0.384	9.27	4.499	0.68	0.4	24.8	1.7	3
0.21	0.03	0.24	172	5.56	0.188	12.6	7	1.64	703	0.422	9.26	4.042	0.78	0.2	28.7	1.9	1
0.05	0.04	<0.04	116	4.29	0.131	10.1	2	1.18	891	0.349	9.10	4.653	0.85	0.1	10.2	1.4	<1
0.04	0.04	<0.04	58	1.60	0.051	14.1	5	0.53	2070	0.171	7.33	3.389	2.72	2.3	7.1	1.1	<1
0.52	0.39	15.36	100	1.78	0.089	9.5	24	0.87	1323	0.285	8.15	3.683	1.58	24.5	11.7	1.7	1
0.29	0.25	2.39	110	2.64	0.127	6.1	20	1.03	1573	0.314	9.65	4.981	1.29	3.2	14.5	1.9	2
0.07	0.26	0.06	85	3.26	0.077	3.6	19	0.66	967	0.223	9.55	5.466	0.87	1.1	8.9	1.6	2

MA250 Sc PPM 0.1	MA250 S % 0.04	MA250 Y PPM 0.1	MA250 Ce PPM 0.02	MA250 Pr PPM 0.1	MA250 Nd PPM 0.1	MA250 Sm PPM 0.1	MA250 Eu PPM 0.1	MA250 Gd PPM 0.1	MA250 Tb PPM 0.1	MA250 Dy PPM 0.1	MA250 Ho PPM 0.1	MA250 Er PPM 0.1	MA250 Tm PPM 0.1	MA250 Yb PPM 0.1	MA250 Lu PPM 0.1	MA250 Hf PPM 0.02	MA250 Li PPM 0.1
22.0	0.07	11.3	29.46	3.1	11.9	2.5	0.7	2.1	0.2	2.1	0.4	1.1	0.2	1.5	0.2	0.99	13.8
8.8	<0.04	17.6	47.51	5.1	21.0	3.8	1.2	3.4	0.4	2.9	0.6	1.7	0.2	1.5	0.2	0.83	11.8
14.2	<0.04	16.0	44.81	5.0	20.0	4.5	1.1	3.8	0.4	3.4	0.7	1.8	0.3	1.7	0.3	0.83	10.6
8.6	0.06	12.0	31.27	3.5	15.0	3.3	1.0	2.9	0.2	2.6	0.4	1.4	0.2	1.3	0.2	0.39	11.2
10.5	<0.04	11.0	27.25	2.8	12.7	2.6	0.8	3.0	0.2	2.0	0.4	1.4	0.2	1.2	0.2	0.42	9.8
14.9	<0.04	19.3	58.92	6.9	27.5	5.3	1.4	4.7	0.5	4.1	0.9	2.3	0.3	2.1	0.3	1.16	17.1
8.6	0.19	12.7	69.70	6.9	26.0	4.0	1.0	2.9	0.2	2.5	0.5	1.3	0.1	1.3	0.2	1.09	23.9
10.6	<0.04	10.2	22.78	2.4	10.2	2.5	0.9	2.3	0.2	2.0	0.4	1.3	0.2	1.2	0.2	0.78	15.6
11.8	<0.04	12.5	41.40	4.2	16.3	3.0	1.0	3.2	0.3	2.6	0.5	1.7	0.2	1.4	0.2	1.19	14.8
14.9	<0.04	17.7	36.64	4.2	18.0	4.3	1.1	4.1	0.5	3.2	0.8	2.3	0.3	2.0	0.3	1.06	14.6
11.2	<0.04	15.0	26.20	3.0	14.7	3.6	1.0	3.4	0.3	2.9	0.6	1.5	0.2	1.6	0.3	0.91	11.9
15.0	<0.04	17.3	27.43	3.1	14.9	3.9	1.1	3.4	0.3	3.2	0.7	1.9	0.3	1.9	0.3	1.26	12.1
13.5	<0.04	15.2	26.02	3.2	15.4	3.5	1.0	3.4	0.4	3.1	0.6	1.9	0.3	1.8	0.2	0.46	12.5
4.1	<0.04	9.4	28.01	2.9	9.8	2.0	0.7	2.2	0.1	1.8	0.3	1.1	0.2	1.2	0.1	0.30	6.0
7.2	0.08	7.8	19.47	2.1	9.5	2.3	0.5	2.0	<0.1	1.3	0.3	1.1	0.2	0.9	<0.1	0.57	6.0
7.2	<0.04	12.2	16.70	2.1	10.9	2.6	1.0	3.4	0.2	2.5	0.5	1.3	0.2	1.3	0.2	0.53	6.4
7.7	<0.04	14.3	11.39	1.8	10.0	3.2	1.1	3.5	0.4	3.5	0.6	1.8	0.3	1.8	0.2	0.34	5.1

MA250 Rb PPM	MA250 Ta PPM	MA250 Nb PPM	MA250 Cs PPM	MA250 Ga PPM	MA250 In PPM	MA250 Re PPM	MA250 Se PPM	MA250 Te PPM	MA250 Tl PPM	MA370 Cu %	GC921 Cu/Ox %
0.1	0.1	0.04	0.1	0.02	0.01	0.002	0.3	0.05	0.05	0.001	0.001
51.8	0.2	5.42	0.3	18.09	0.09	<0.002	1.1	1.15	0.19	1.086	0.886
26.5	0.4	6.98	1.5	35.57	0.08	<0.002	1.2	0.56	0.19	0.094	0.083
19.8	0.5	7.23	0.2	24.43	0.10	<0.002	0.5	0.36	0.11	0.093	0.083
16.4	0.3	4.99	0.3	25.63	0.06	<0.002	1.3	0.64	0.11	0.088	0.029
20.8	0.1	3.81	0.2	22.41	0.08	<0.002	0.5	0.20	0.13	0.029	0.026
17.2	0.8	11.08	0.2	29.50	0.06	<0.002	1.5	0.12	0.13	0.251	0.228
8.0	0.2	6.06	0.5	24.19	0.04	<0.002	6.1	1.49	0.10	1.328	0.981
8.3	0.1	3.96	0.5	23.76	0.05	<0.002	0.5	0.58	0.08	0.084	0.063
14.6	0.2	5.02	0.7	21.21	0.04	<0.002	0.8	0.34	0.14	0.125	0.102
10.5	0.3	7.72	0.5	23.71	0.07	<0.002	1.0	1.13	0.11	0.218	0.176
10.3	0.5	7.95	0.4	23.13	0.06	<0.002	1.0	0.40	0.07	0.100	0.081
10.7	0.2	4.80	0.5	24.45	0.10	<0.002	0.3	0.56	0.05	0.056	0.042
13.1	0.3	6.32	0.6	22.30	0.03	<0.002	0.5	0.31	0.07	<0.001	<0.001
98.8	0.4	5.17	1.5	18.06	0.03	0.002	0.5	<0.05	0.41	0.008	0.005
46.4	0.3	4.30	0.8	20.06	0.06	0.009	2.5	1.52	0.23	1.695	1.537
25.1	0.3	6.86	0.4	22.14	0.09	0.010	1.6	1.32	0.14	0.879	0.856
8.0	0.5	8.19	0.1	20.35	0.03	<0.002	<0.3	0.06	<0.05	0.008	0.008

Appendix III

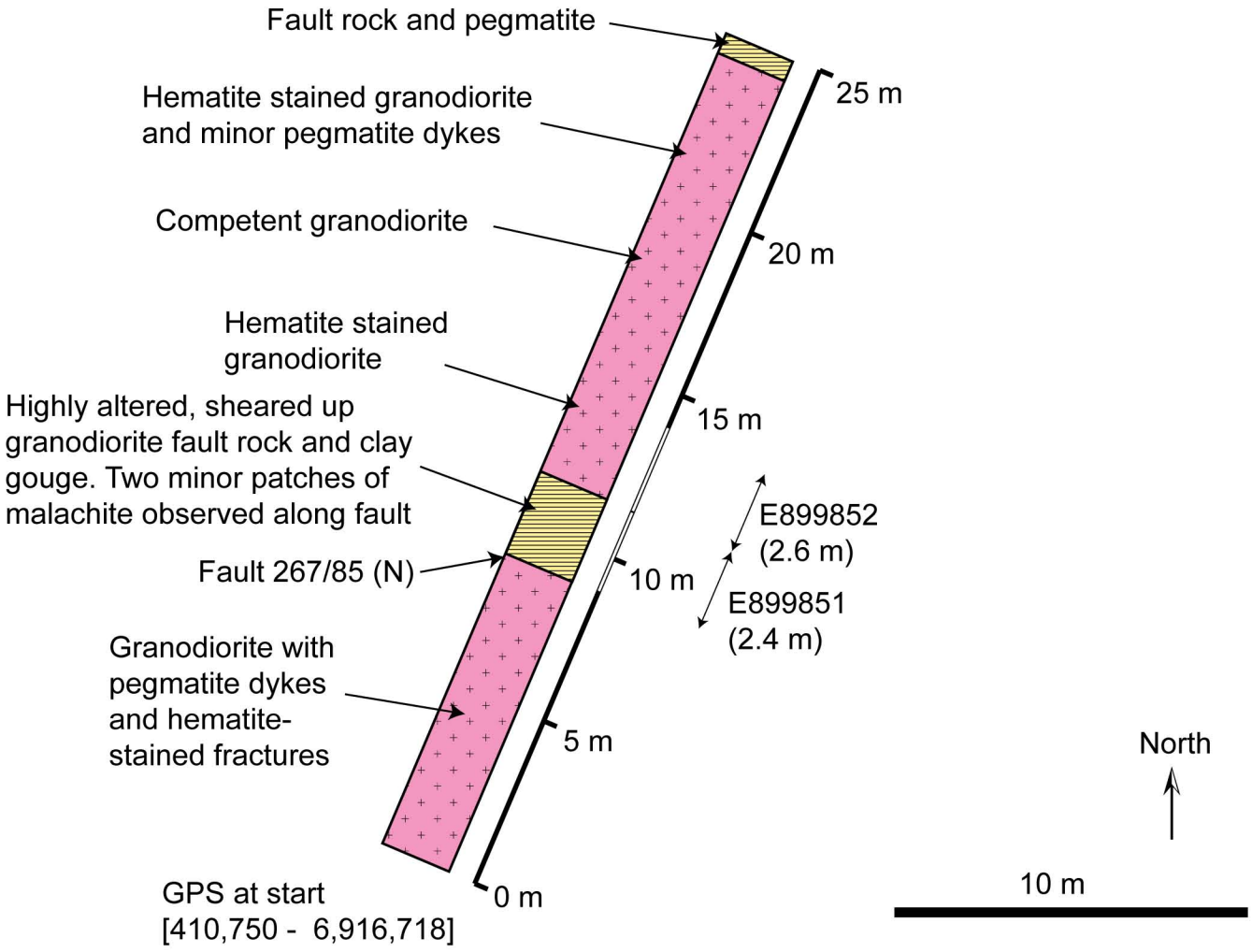
Trench Maps

Trench: 14TR-1

Azimuth: 023
Length: 25m
Width: 2.5 m
Depth: 3 m
Overburden: none (historically trenched)
Samples: E899851-E899852
Mineralization: very minor malachite within fault zone

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

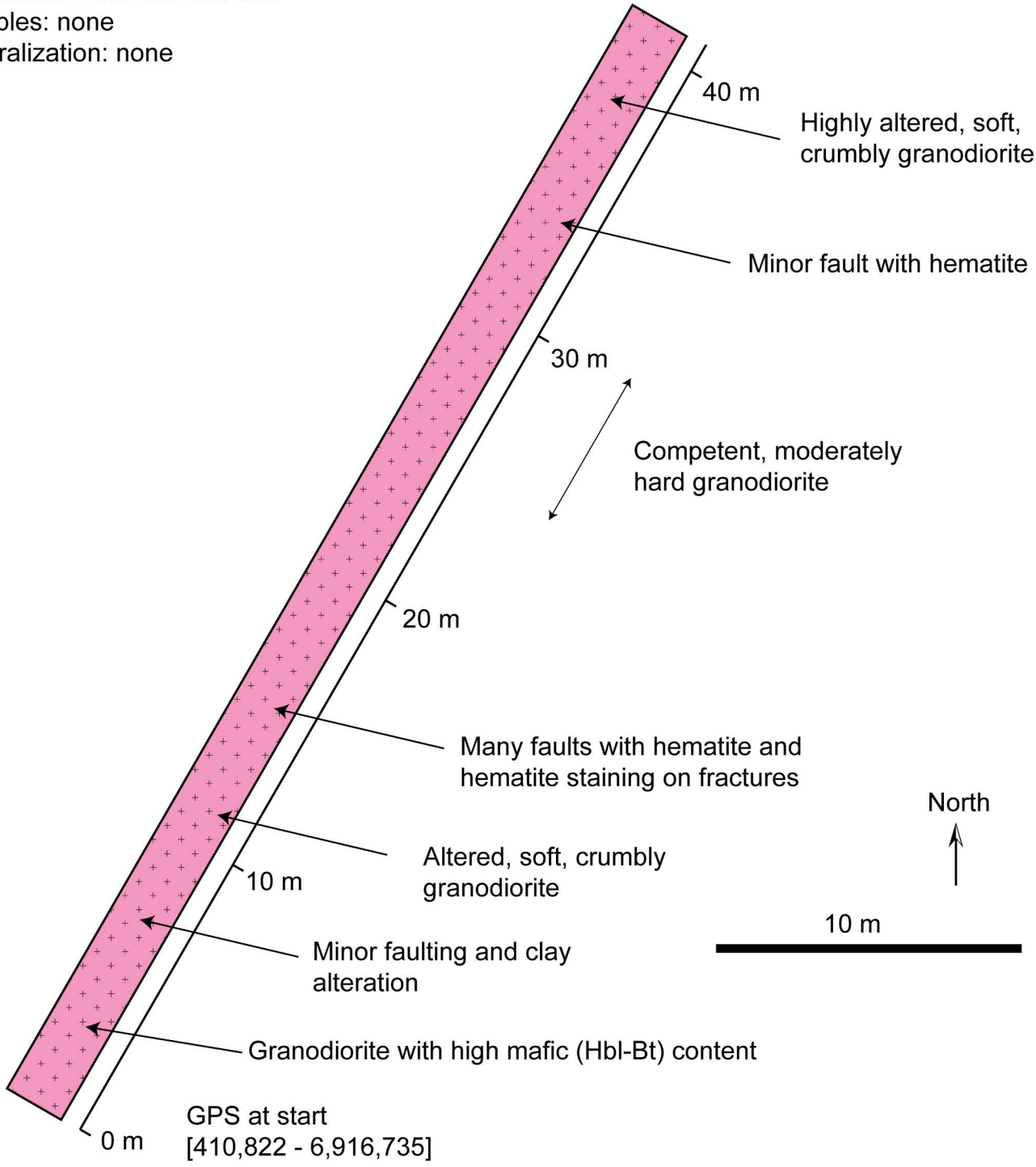
Trench 14TR-1 was intended to chase mineralization in the Zone 2 outcrop to the West. However, the extension of the zone was not found in this trench, likely due to displacement along the East-West fault exposed here.

Trench: 14TR-2

Azimuth: 030
Length: 41m
Width: 2.5 m
Depth: 2 m
Overburden: thin soil and ash
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
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Date: 28/Aug/2014



Summary

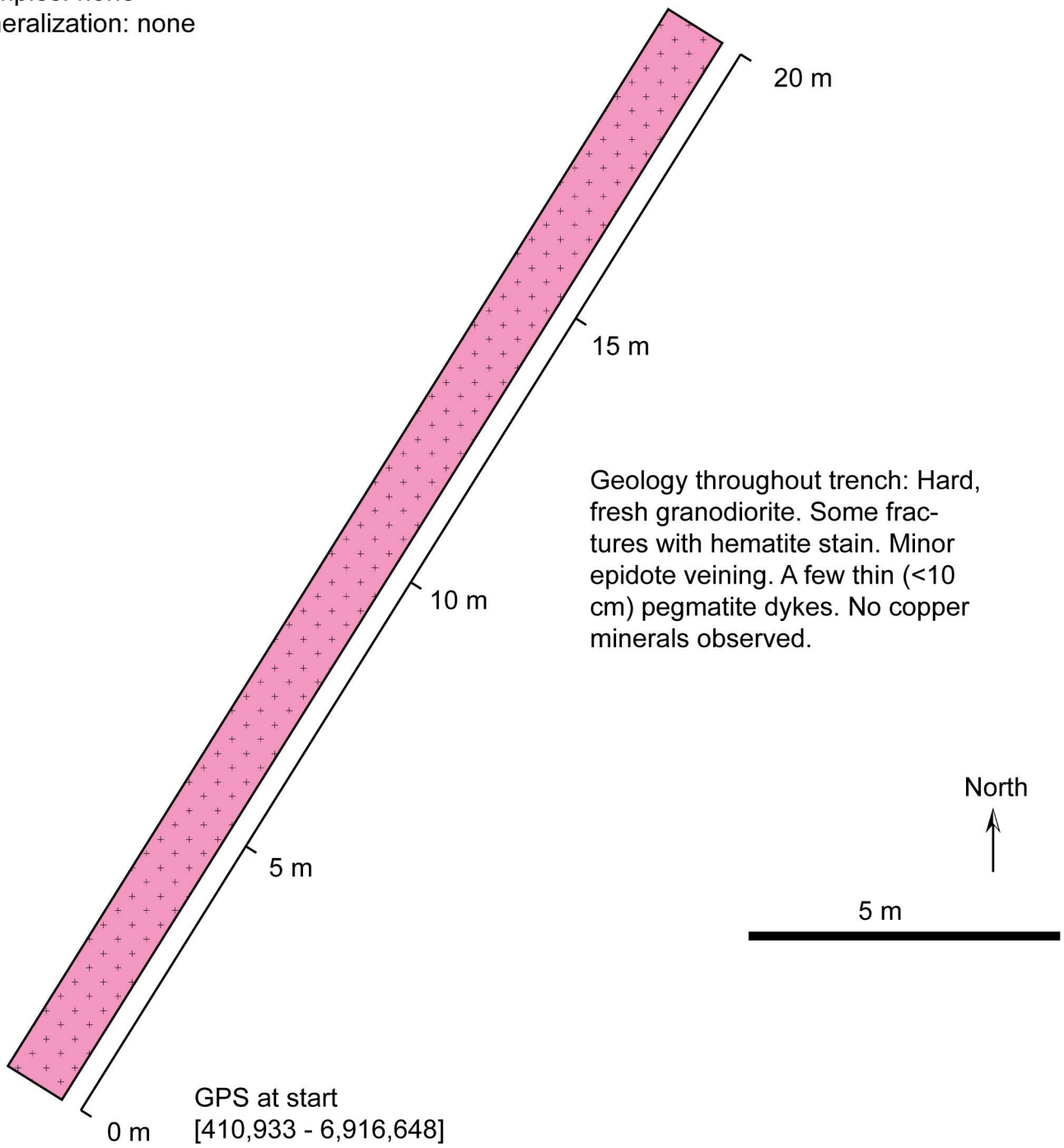
Trench 14TR-2 was intended to test a dextral displacement of Zone 2 along an East-West fault that cuts off the Zone 2 outcrop at the western limit. Zone 2 was not intersected within trench 14TR-2.

Trench: 14TR-3

Azimuth: 032
Length: 20m
Width: 4 m
Depth: 1.5 m
Overburden: none (historically trenched)
Samples: none
Mineralization: none

Copper North
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2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

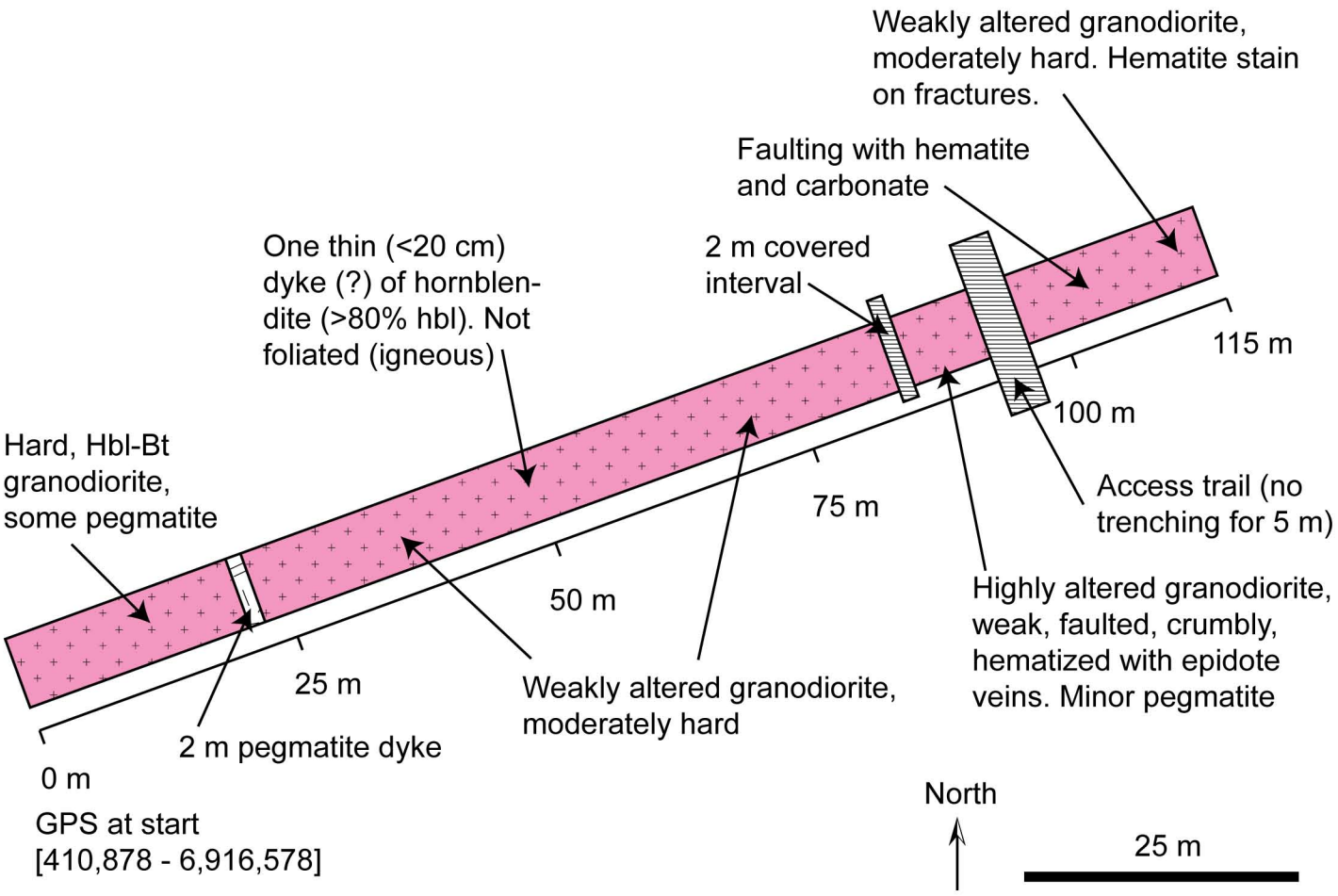
Trench 14TR-3 was excavated at the base of an historic trench in order to reach deeper in to bedrock and test a downstrike (towards 110°) extention of the Zone 2 outcrop. No copper was found.

Trench: 14TR-4

Azimuth: 070
Length: 115 m
Width: 2.5 m
Depth: 1 m
Overburden: none (historically trenched)
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

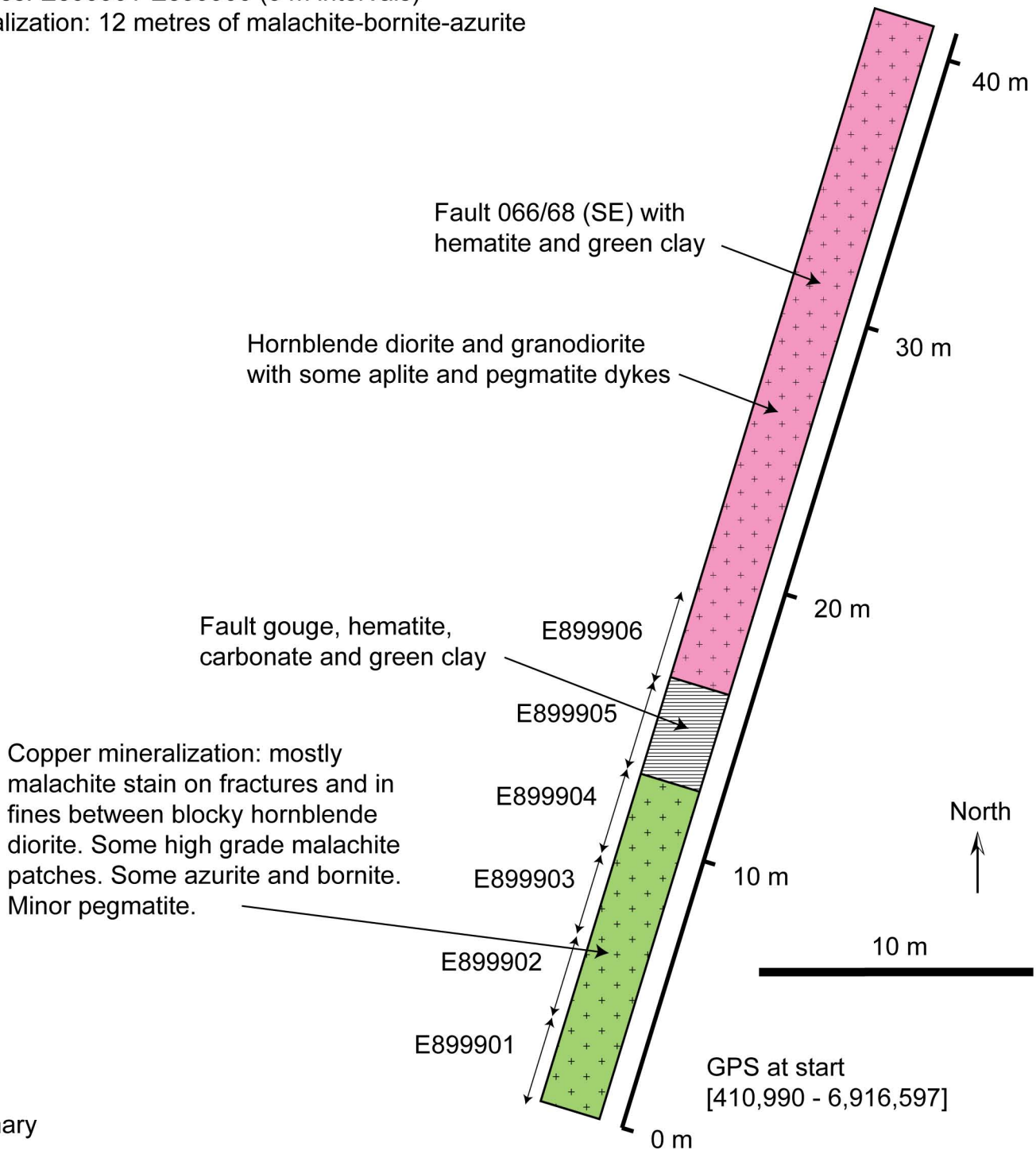
Trench 14TR-4 was dug in order to chase Zone 2 mineralization intersected in trench 14TR-5. No copper was found, likely due to displacement of the zone along a fault that intersects trench 14TR-4 at approximately 100 m around a zone of weak, altered and faulted granodiorite.

Trench: 14TR-5

Azimuth: 017
Length: 41 m
Width: 2.5 m
Depth: 3 m
Overburden: historic trenched material in push-piles
Samples: E899901-E899906 (3 m intervals)
Mineralization: 12 metres of malachite-bornite-azurite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

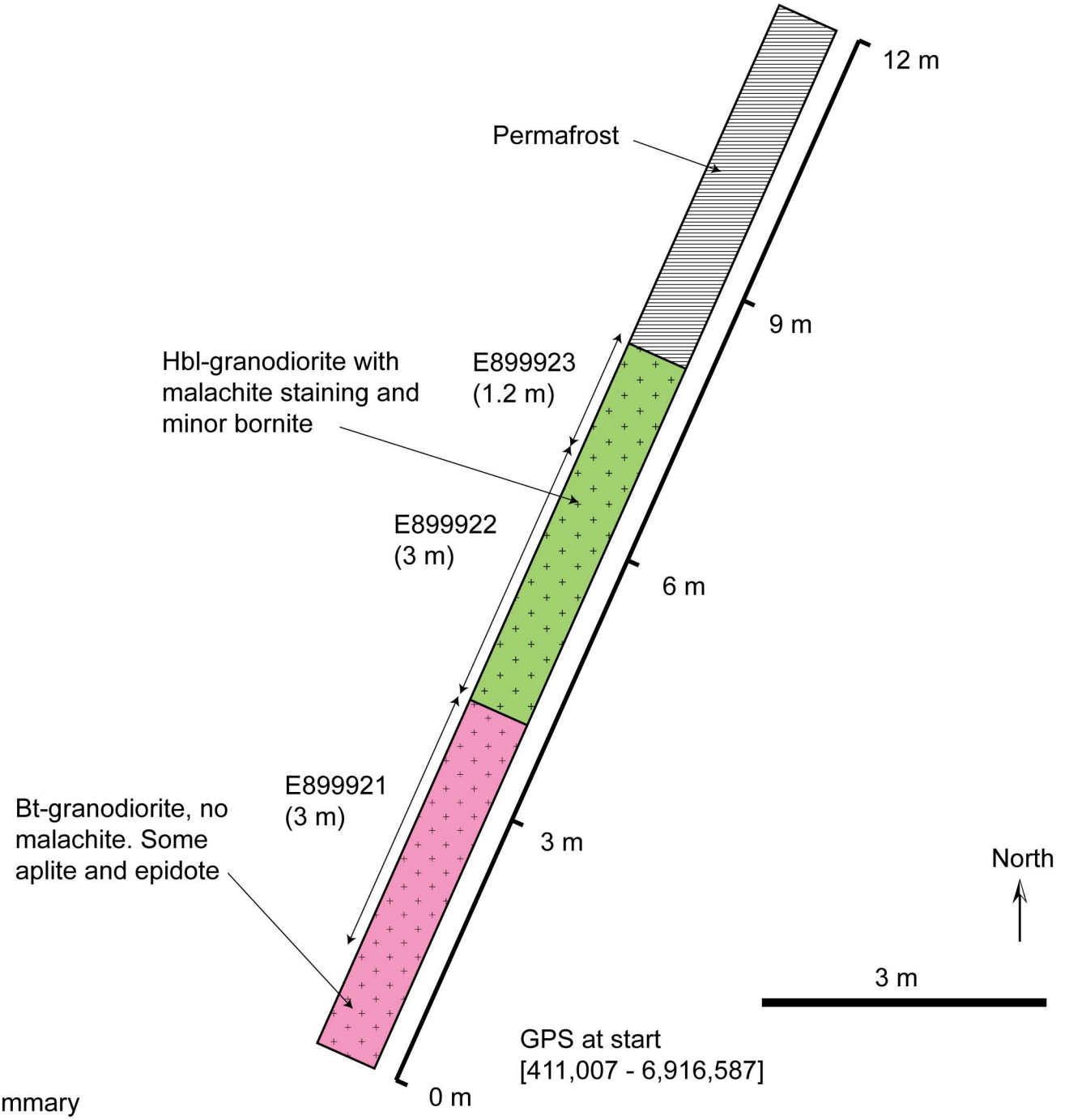
Trench 14TR-5 intersected Zone 2 as a step-out from trench 14TR-6. Frozen ground was intersected at the southern end of the trench and it is not known whether mineralization continues southwards. Mineralization is cut off at the northern end by a fault with considerable gougue. This is likely the same fault that cuts off the eastern end of the Zone 2 outcrop.

Trench: 14TR-6

Azimuth: 025
Length: 11 m
Width: 2 m
Depth: 2.5 m
Overburden: ash and colluvium (<0.6 m). Permafrost at north end
Samples: E899921-E899923
Mineralization: >4.2 metres of malachite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

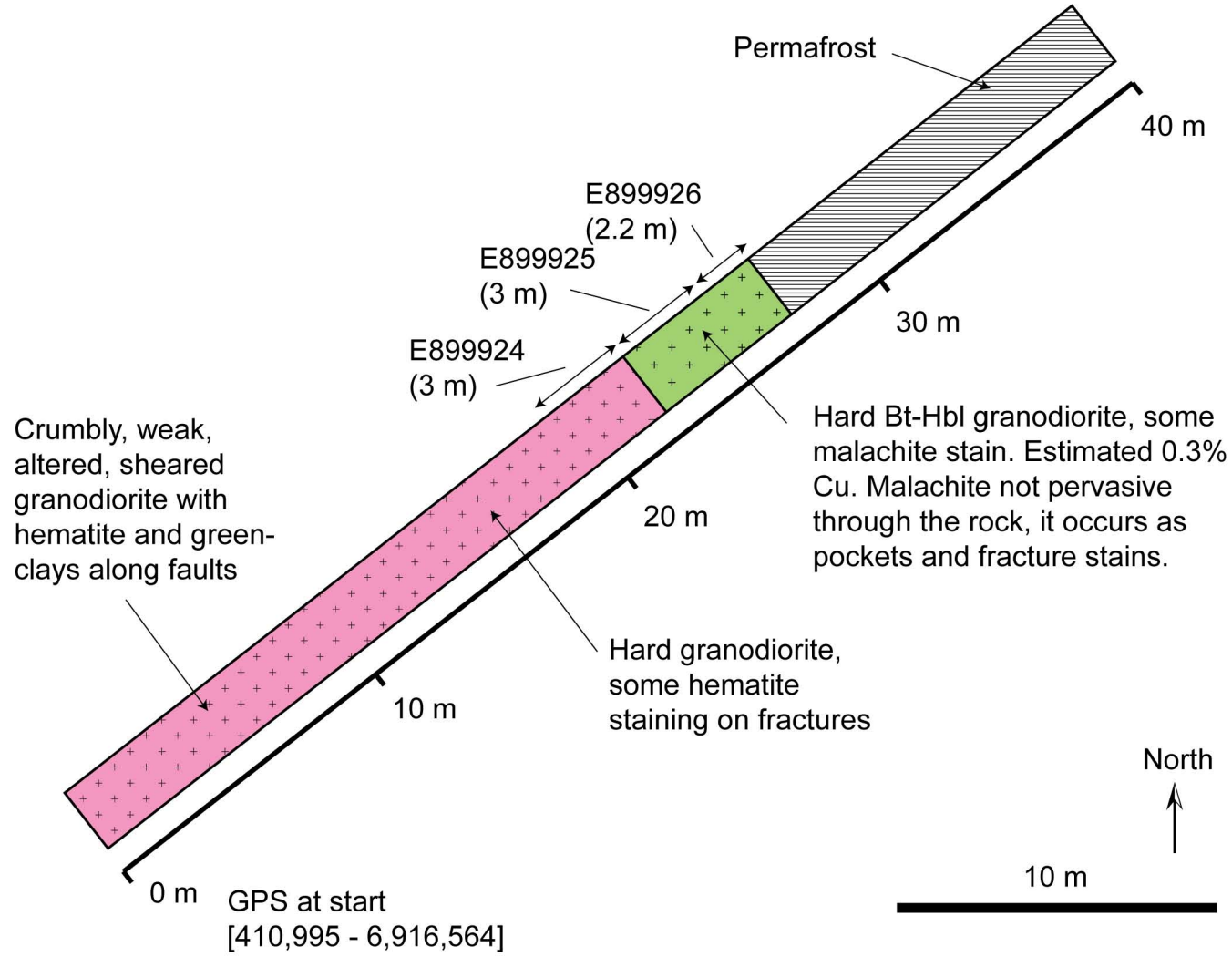
Trench 14TR-6 located 4.2 m of Zone 2 mineralization as a step out from 14TR-7. The trench encountered frozen ground and therefore a complete width of mineralization could not be measured.

Trench: 14TR-7

Azimuth: 052
Length: 40 m
Width: 3.5 m
Depth: 2 m
Overburden: ash, soil, colluvium (<0.6 m). Permafrost at north end
Samples: E899924-E899926
Mineralization: >5.2 metres of malachite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

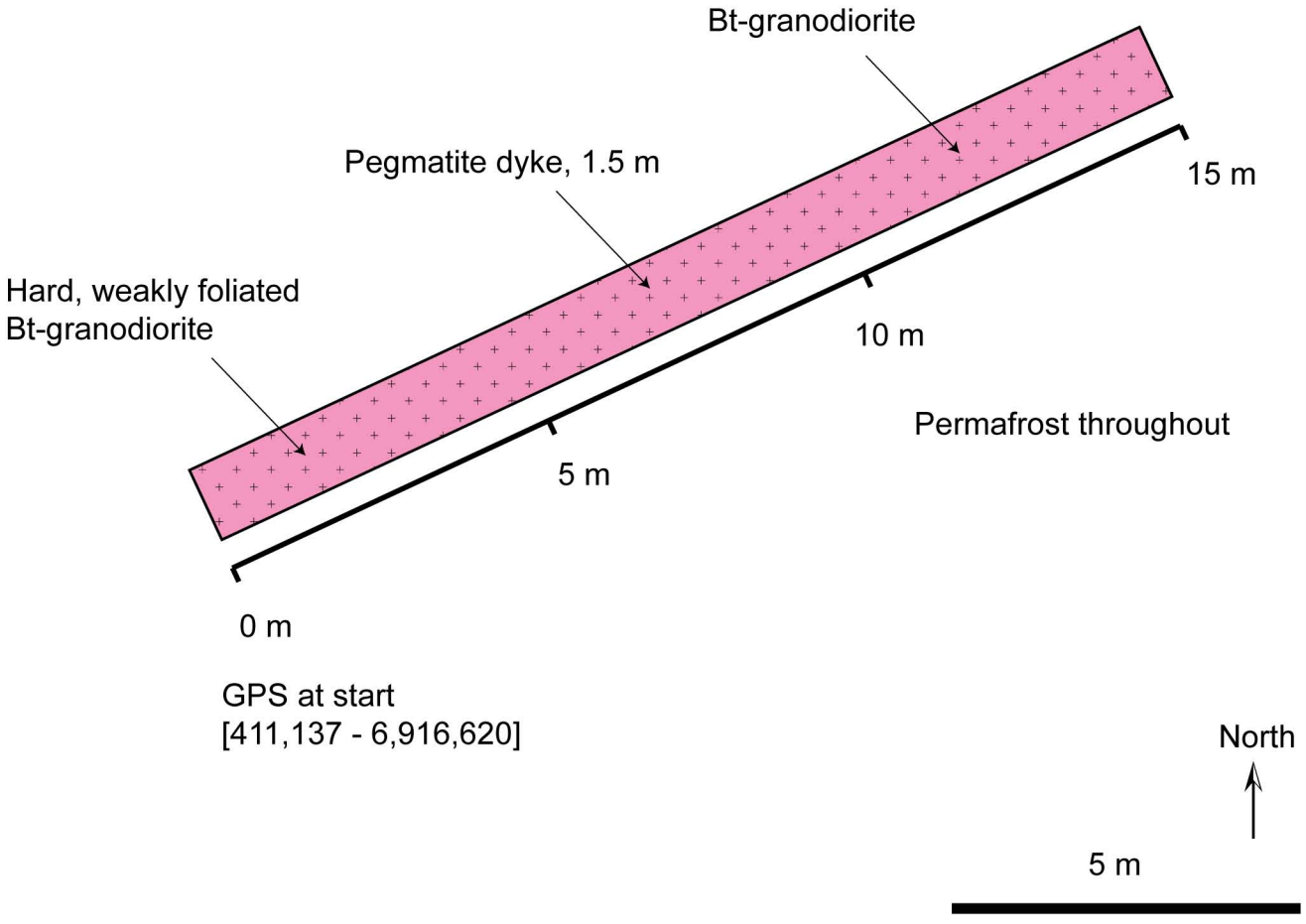
Trench 14TR-7 located 5.2 m of Zone 2 mineralization over a chargeability anomaly. The trench encountered frozen ground and therefore a complete width of mineralization could not be measured.

Trench: 14TR-8

Azimuth: 065
Length: 15 m
Width: 1.5 m
Depth: 1.5 m
Overburden: ash, soil, 1.1 m of till, permafrost.
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

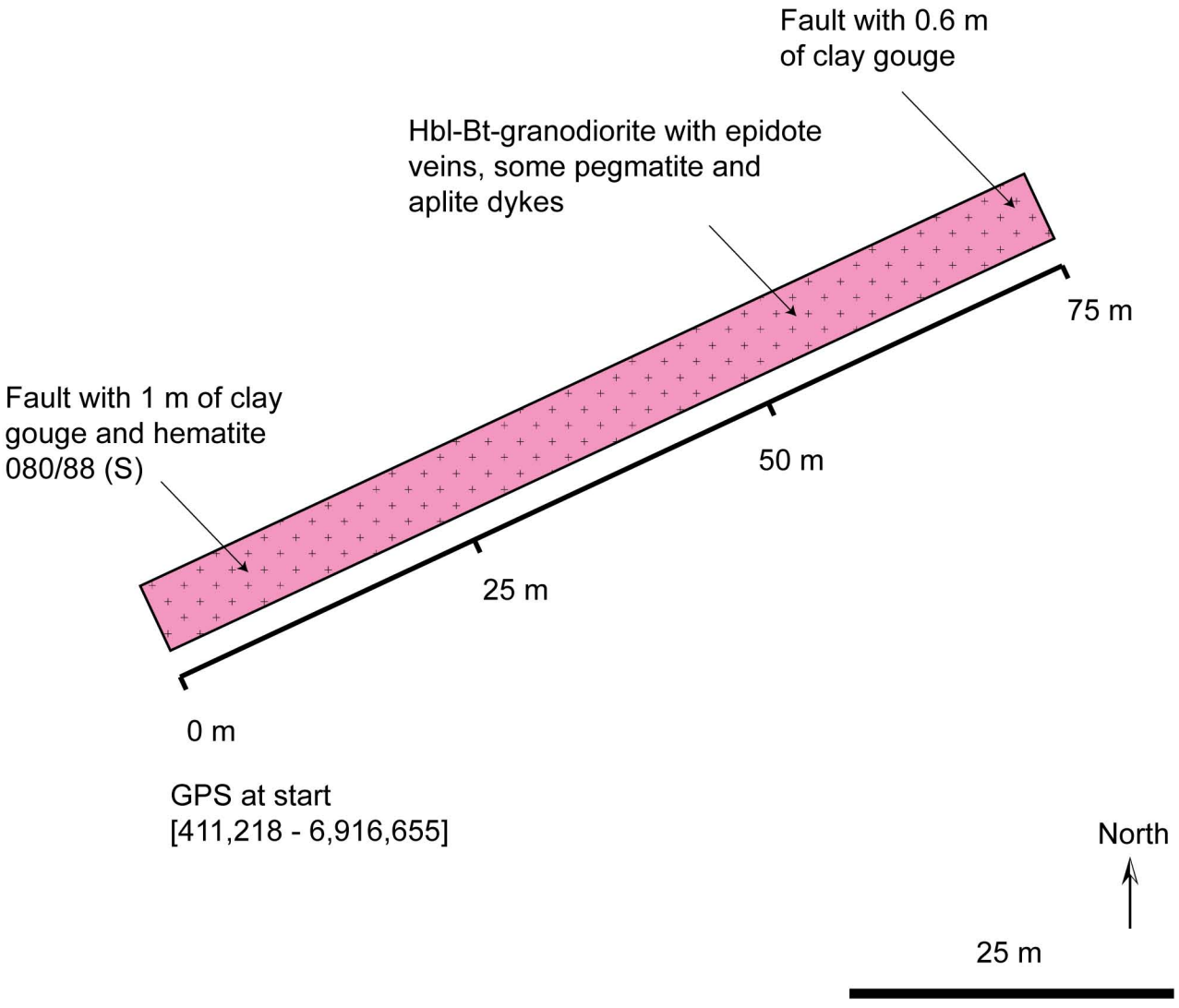
Trench 14TR-8 was located over a chargeability anomaly. The trench encountered frozen ground and therefore the anomaly could not be fully tested.

Trench: 14TR-9

Azimuth: 065
Length: 75 m
Width: 3.5 m
Depth: 1.5 m
Overburden: ash, soil and colluvium (<0.6 m).
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

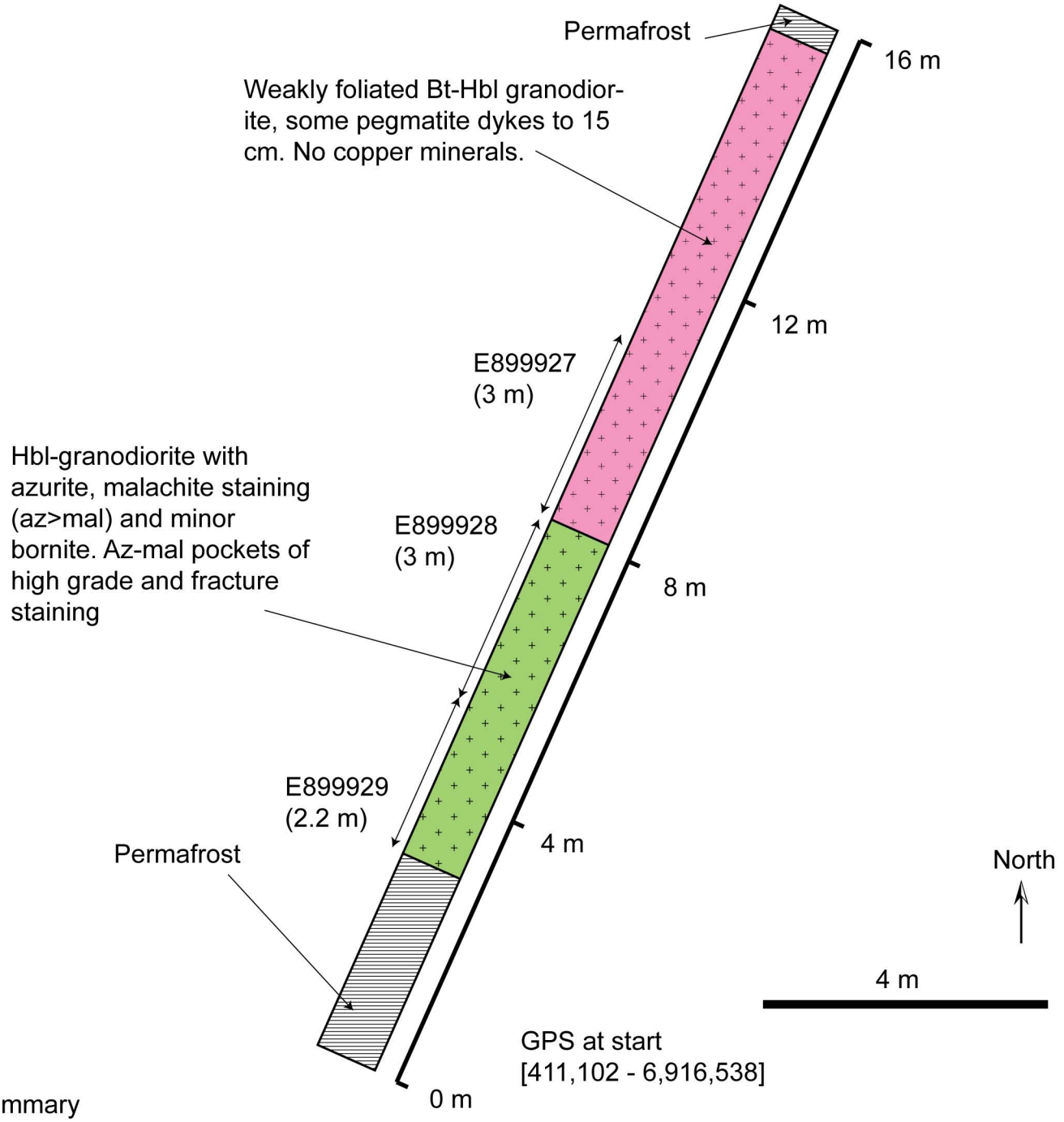
Trench 14TR-9 was located over a chargeability and resistivity anomalies. The trench encountered no copper mineralization and therefore the anomalies may have been generated by faults.

Trench: 14TR-10

Azimuth: 025
Length: 16 m
Width: 2 m
Depth: 2.5 m
Overburden: ash, soil, colluvium (<0.6 m). Permafrost at south end
Samples: E899927-E899929
Mineralization: >5.2 metres of azurite-malachite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

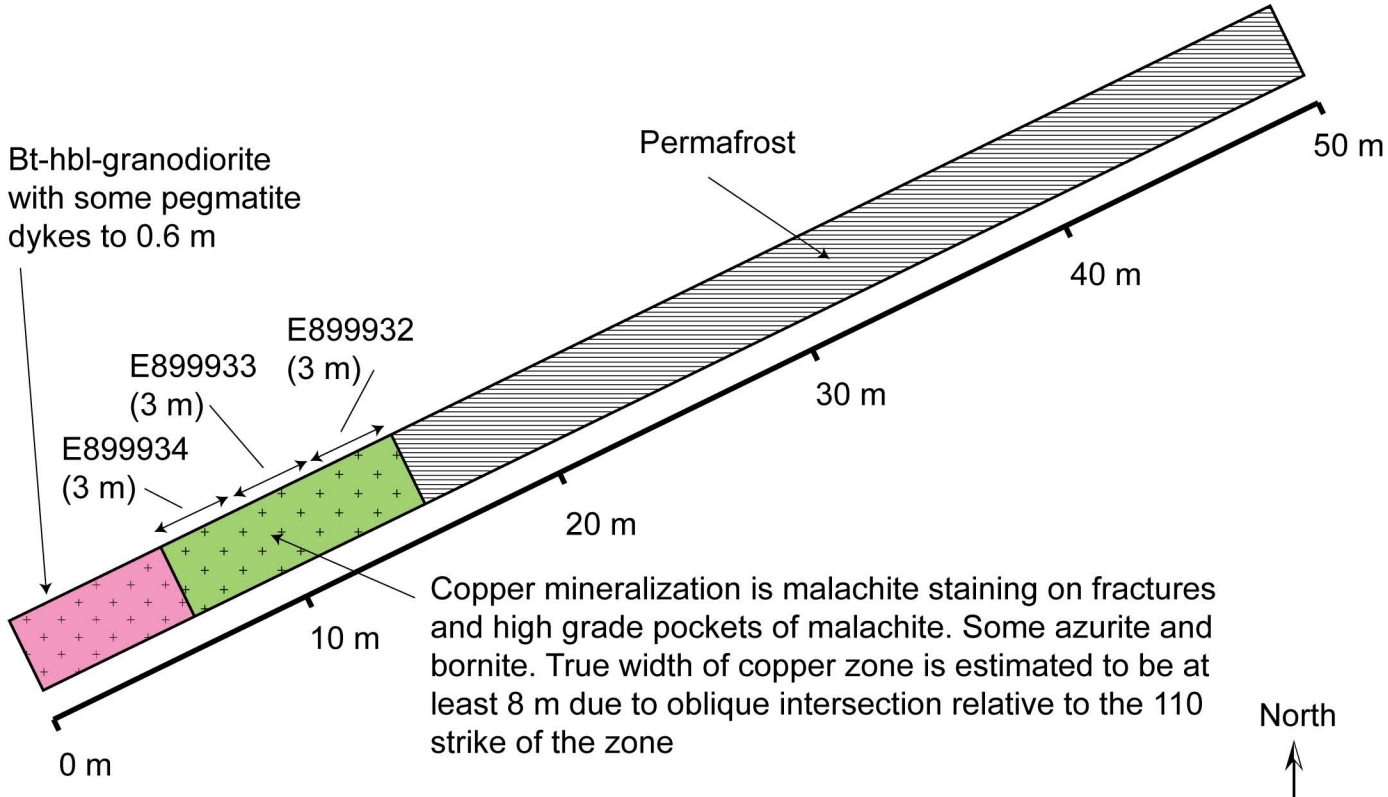
Trench 14TR-10 located 5.2 m of Zone 2 mineralization as a step out between 14TR-7 and 14TR-11. The trench encountered frozen ground and therefore a complete width of mineralization could not be measured.

Trench: 14TR-11

Azimuth: 064
Length: 50 m
Width: 4 m
Depth: 2.5 m
Overburden: 1 to 1.5 m of till, sand, ash and soil. Permafrost throughout
Samples: E899932-E899934
Mineralization: >9 metres of malachite-azurite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[411,144- 6,916,519]

Summary

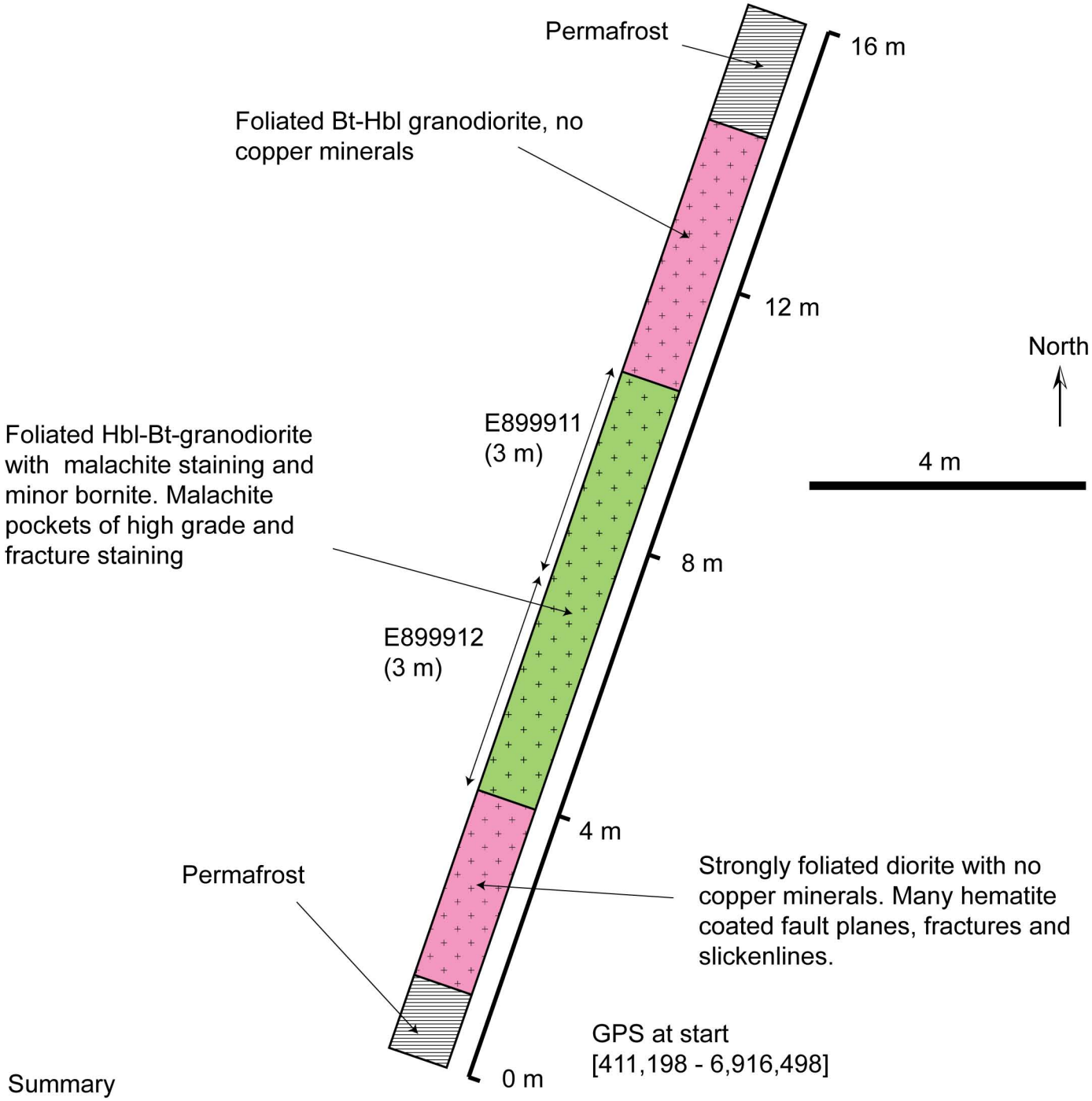
Trench 14TR-11 located 9 m of Zone 2 mineralization over a weak chargeability anomaly on 2007 IP line 10,400N. The trench encountered frozen ground throughout and therefore a complete width of mineralization could not be measured.

Trench: 14TR-12

Azimuth: 020
Length: 16 m
Width: 2 m
Depth: 2.5 m
Overburden: ash, soil, colluvium (<0.8 m). Permafrost at both ends
Samples: E899911-E899912
Mineralization: 6 metres of malachite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

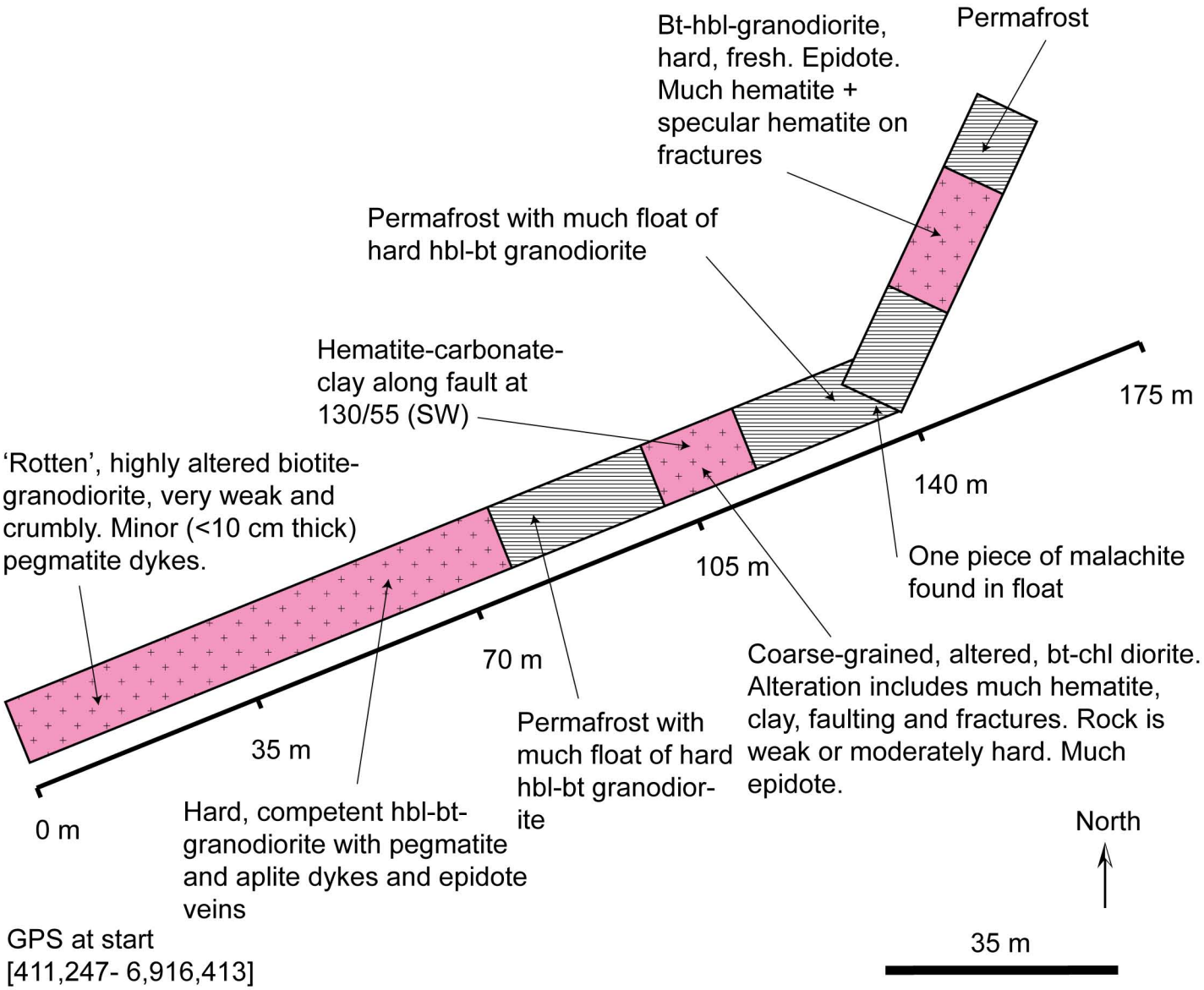
Trench 14TR-12 located 6 m of Zone 2 mineralization as a step out to the south-east from 14TR-11. The trench encountered a complete true width of mineralization of 6 m.

Trench: 14TR-13

Azimuth: 068, 025
Length: 175 m
Width: 3 m
Depth: 2.5 m
Overburden: 1 to 1.5 m of sand, colluvium, ash and soil. Some permafrost.
Samples: none
Mineralization: none exposed in bedrock. trace malachite in float

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[411,247- 6,916,413]

Summary

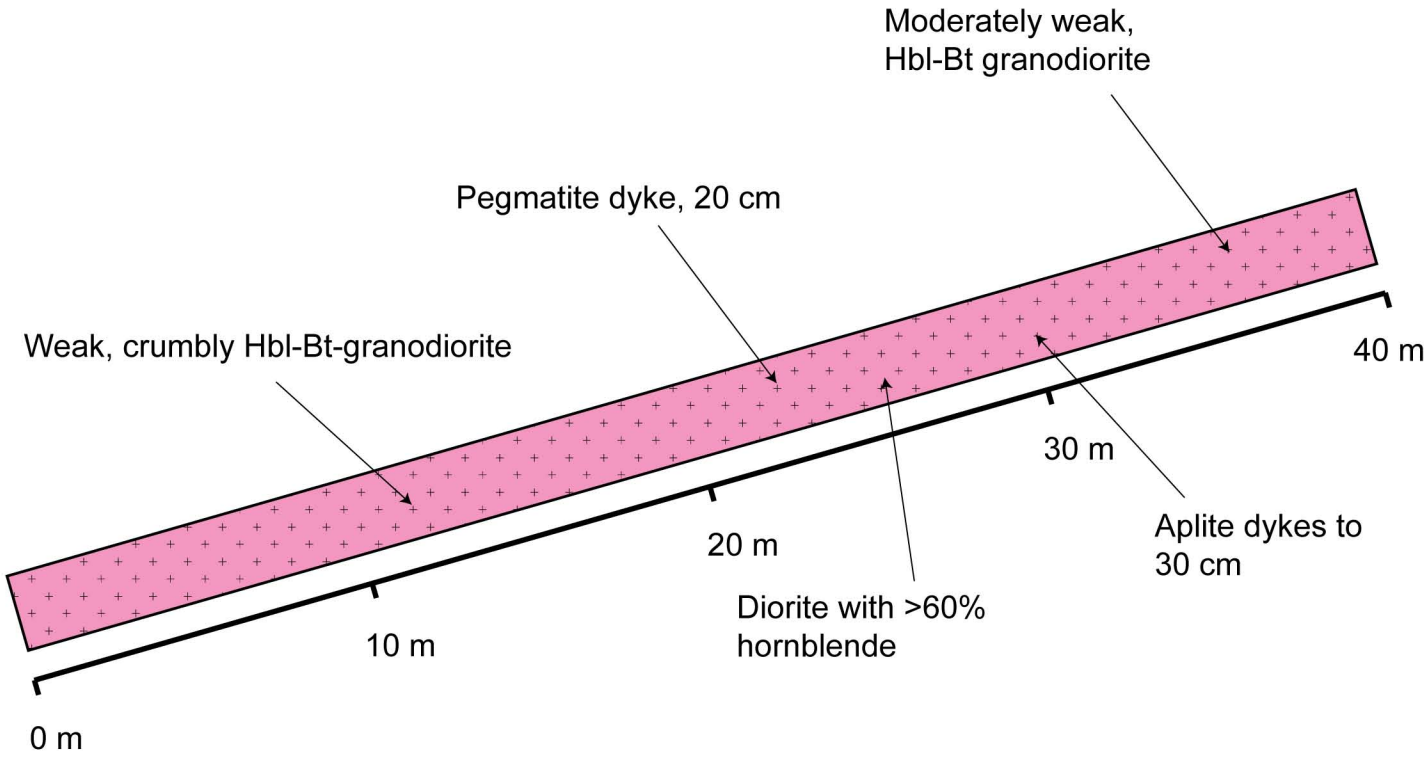
Trench 14TR-13 was located over a weak chargeability anomaly on 2007 IP line 10,000N. The trench encountered frozen ground in places, trace malachite was located in trench-float in a frozen area and therefore the extent of mineralization could not be fully assessed.

Trench: 14TR-14

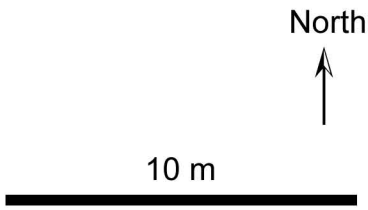
Azimuth: 074
Length: 40 m
Width: 4 m
Depth: 2 m
Overburden: ash, soil, colluvium (<0.7 m)
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[410,668 - 6,916,418]



Summary

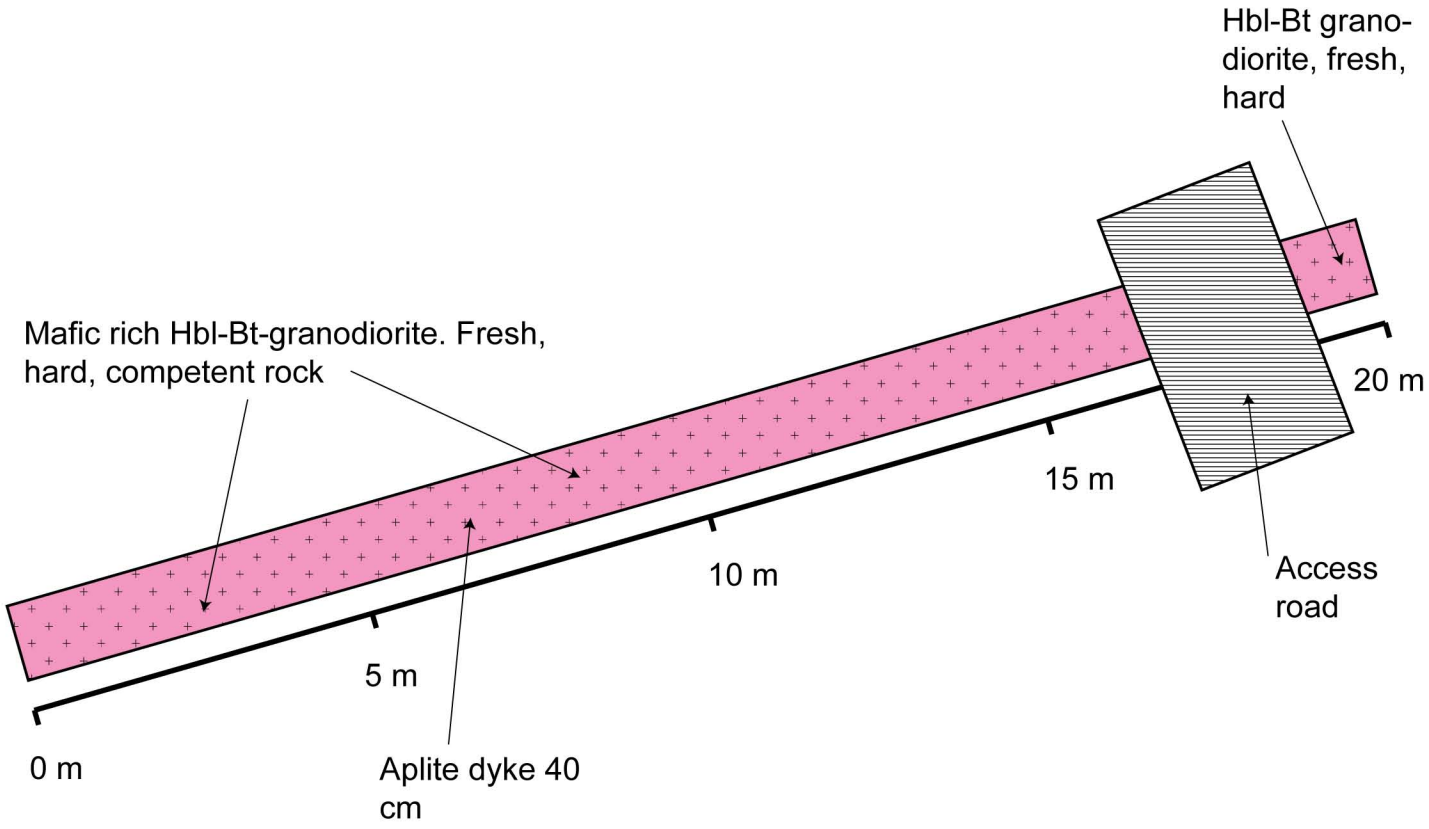
Trench 14TR-14 was located over an EM anomaly. No evidence for copper mineralization could be found. The anomaly may have been caused by faulting and related altered granodiorite.

Trench: 14TR-15

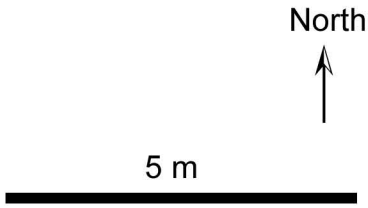
Azimuth: 074
Length: 20 m
Width: 3.5 m
Depth: 2.4 m
Overburden: ash, soil, colluvium (<0.7 m)
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[410,727 - 6,916,055]



Summary

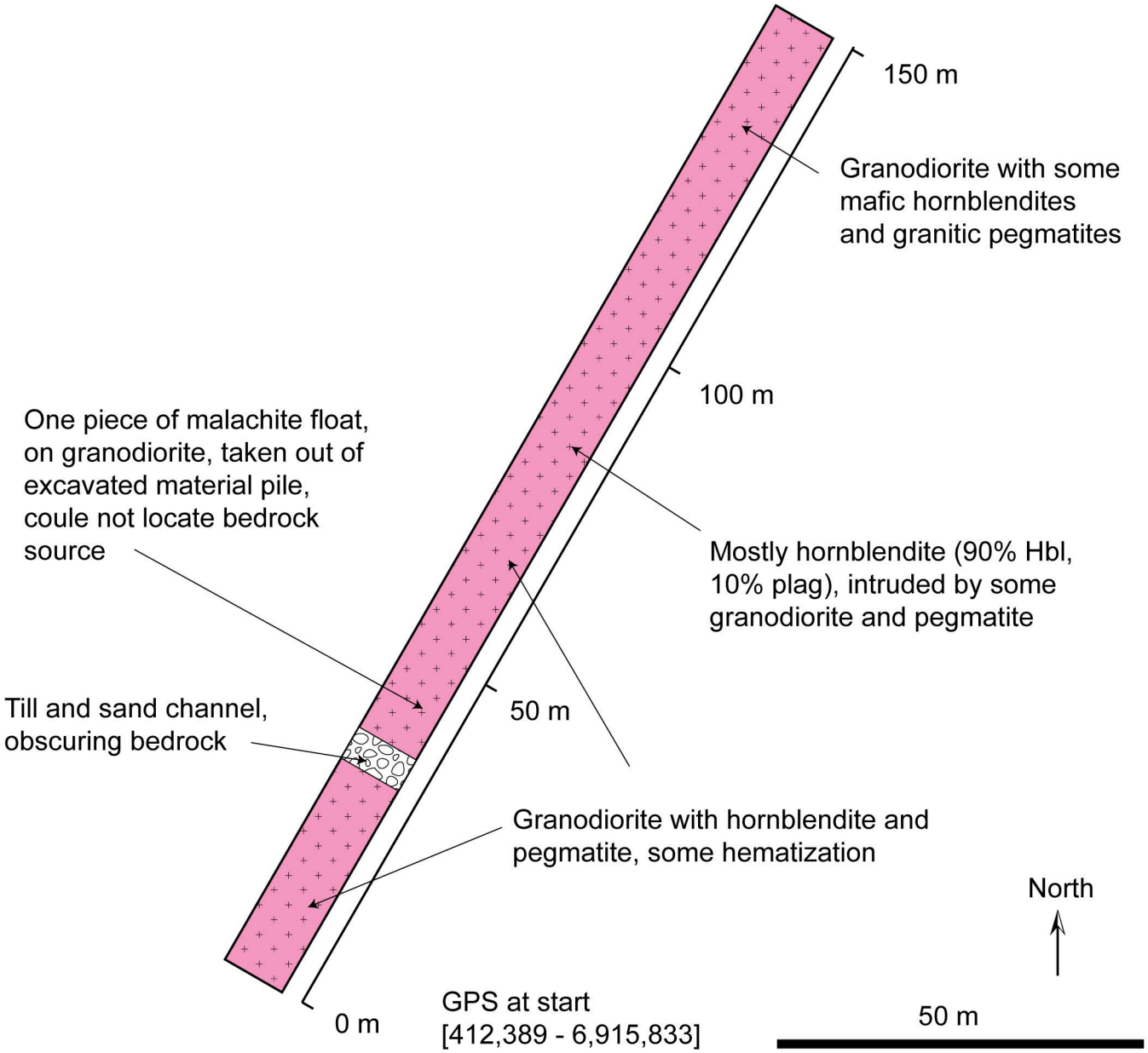
Trench 14TR-15 was located over a copper soil anomaly. No evidence for copper mineralization could be found.

Trench: 14TR-16

Azimuth: 030
Length: 150 m
Width: 3.5 m
Depth: 2 m
Overburden: <0.6 m of soil, ash and colluvium, locally till channel
Samples: E899907-E899910 (grab rock samples)
Mineralization: one piece of malachite, could not be traced back to bedrock

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

Trench 14TR-16 was excavated 60 metres uphill from an historic soil copper anomaly and historic trench. An uphill site was chosen to consider the potentially transported nature of the soil anomaly and to avoid deep till cover located in trench 14TR-17. One piece of malachite was found in piles excavated from 14TR-16 but the bedrock source could not be located in the trench. Much hornblendite occurs in the trench and grab samples of rock were taken to asses whether this rock could be the source of the copper anomaly.

Trench: 14TR-17

Azimuth: n/a
Length: 4 m
Width: 3 m
Depth: 4 m
Overburden: 4 m of sand and till
Samples: “14TR-17” soil sample
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014

GPS (412,508 - 6,915,883)



Summary

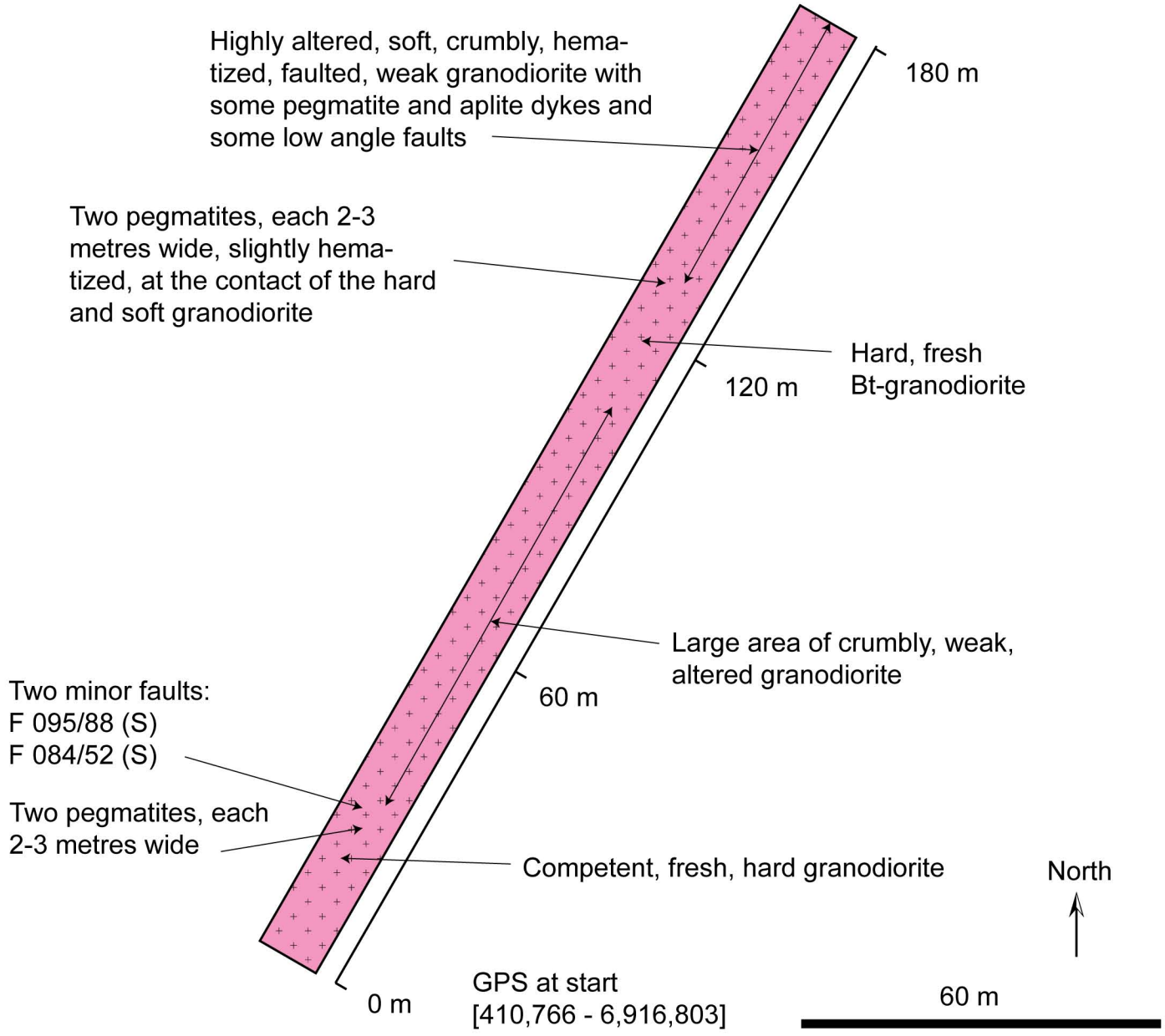
Trench 14TR-17 was located in the base of an historic trench, located over a 242 ppm Cu soil anomaly. The base of the till and sand overburden was not reached after 4 metres and a soil sample was taken from the till at 4 m depth.

Trench: 14TR-18

Azimuth: 030
Length: 180 m
Width: 3.5 m
Depth: 2 m
Overburden: <0.6 m of soil, ash and colluvium
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

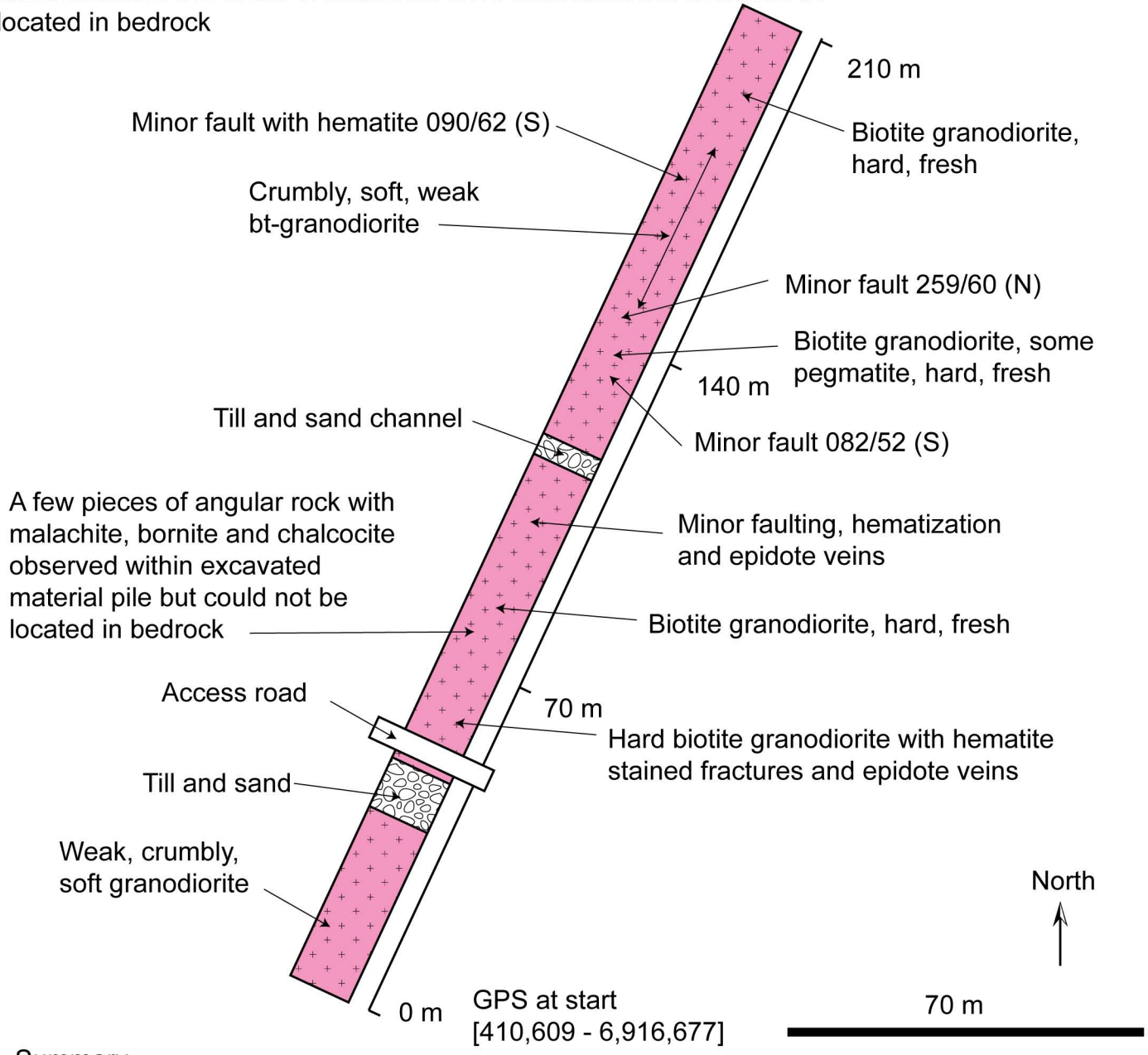
Trench 14TR-18 was excavated to test a dextral offset of zone 2 along an East-West fault over an EM anomaly. No copper mineralization was discovered. The area of very weak, crumbly, sheared and altered granodiorite may correlate with the fault that cuts off the Zone 2 outcrop on the Eastern end and strikes approximately 150°

Trench: 14TR-19

Azimuth: 025
Length: 210 m
Width: 3 m
Depth: 2 m
Overburden: <0.6 m of soil, ash and colluvium, locally till channel
Samples: none
Mineralization: two areas of malachite were excavated but could not be located in bedrock

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

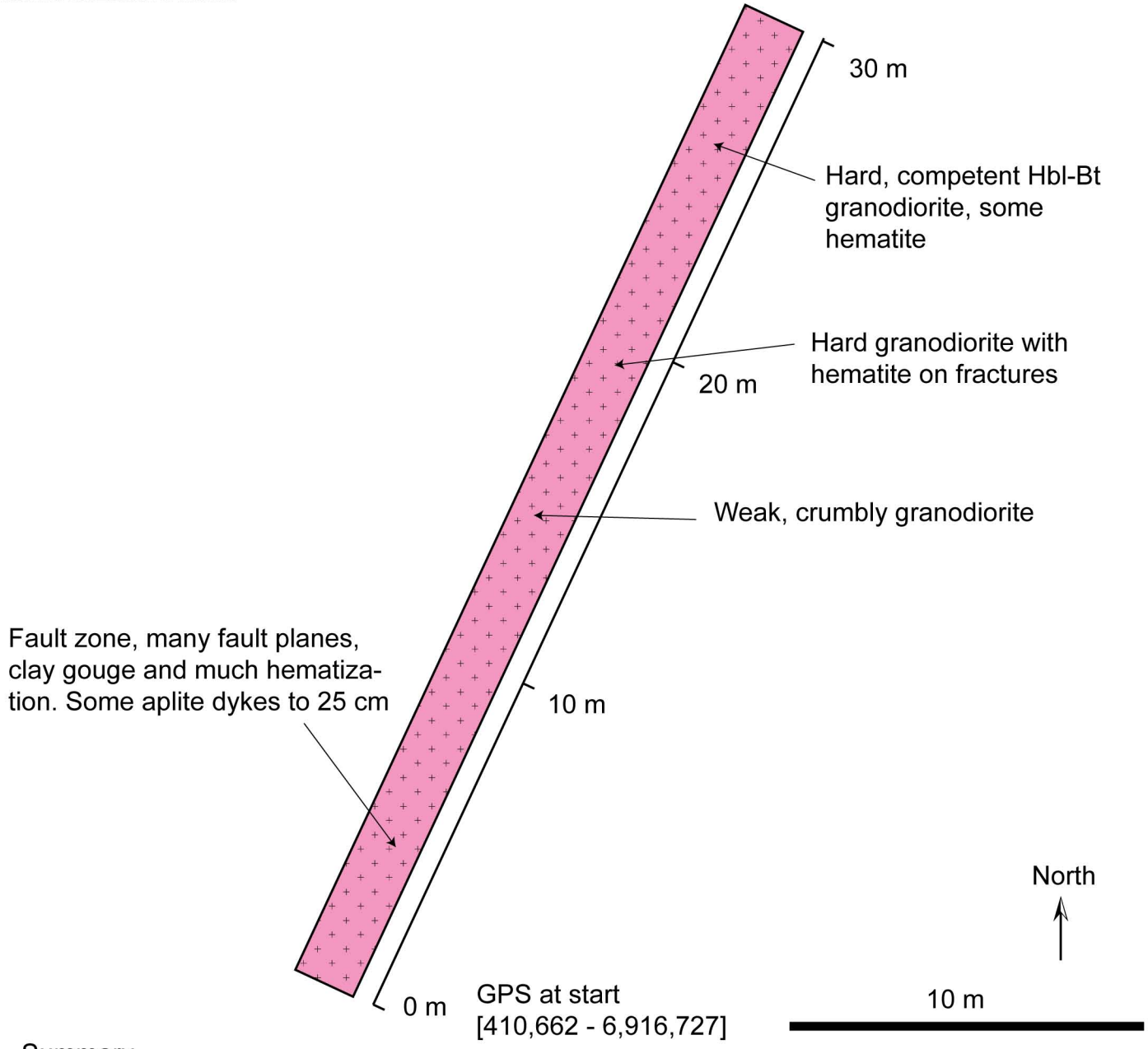
Trench 14TR-19 was excavated to test an offset of zone 2 along an East-West fault. The two areas of malachite-bornite-chalcocite mineralization found in the excavated piles could not be located in bedrock. Trench 14TR-20 was located downstrike and uphill from these areas to attempt to locate bedrock mineralization.

Trench: 14TR-20

Azimuth: 025
Length: 30 m
Width: 3 m
Depth: 2.5 m
Overburden: <0.6 m of soil, ash and colluvium
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

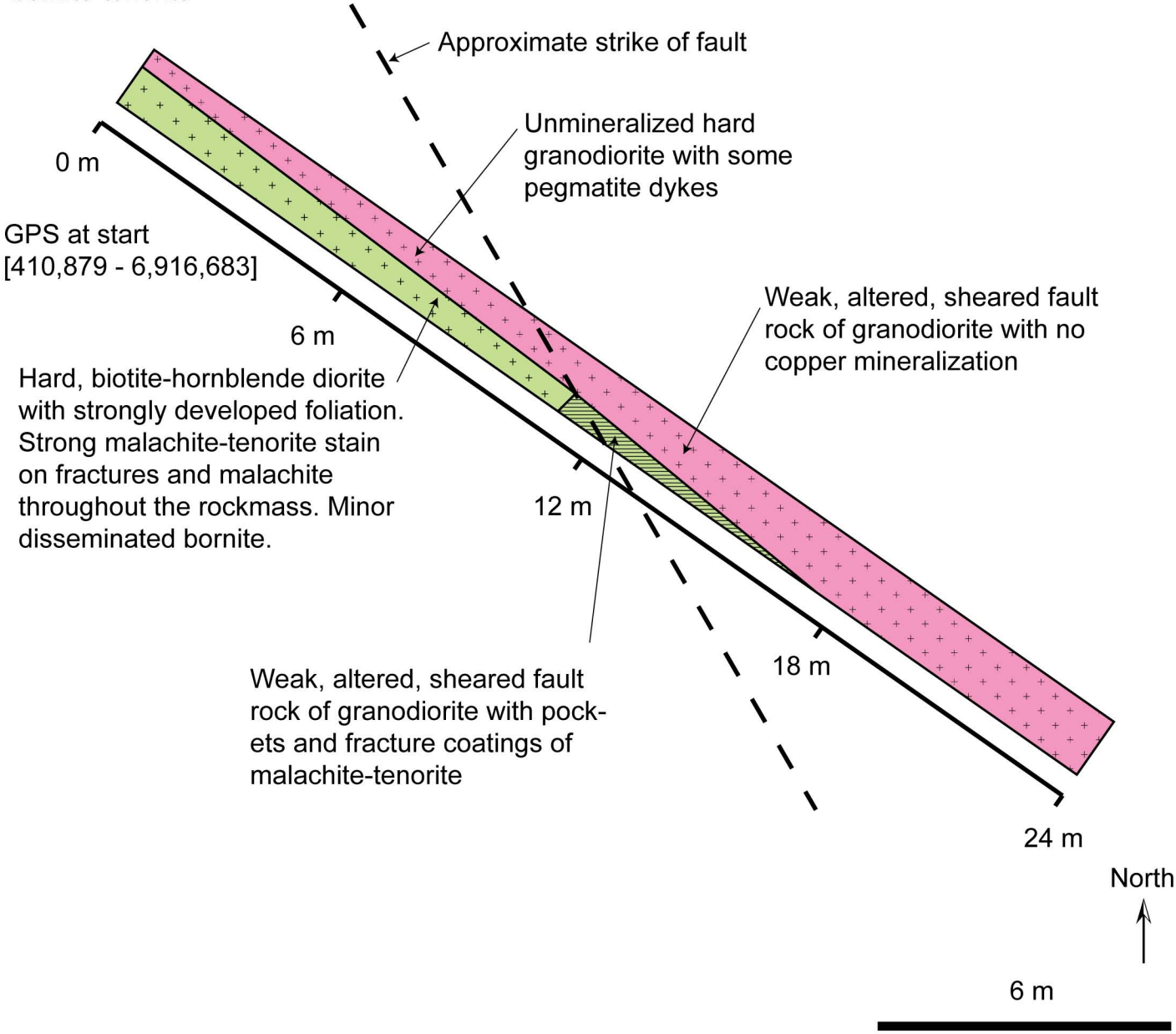
Trench 14TR-20 was located to try and locate a bedrock source to the angular mineralized material excavted from trench 14TR-19. No copper mineralization was found.

Trench: 14TR-21

Azimuth: 125
Length: 25 m
Width: 2.5 m
Depth: 3.5 m
Overburden: ash, soil, colluvium (<0.5 m) or historic trenched material
Samples: none
Mineralization: downstrike and fault hosted malachite-bornite-tenorite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

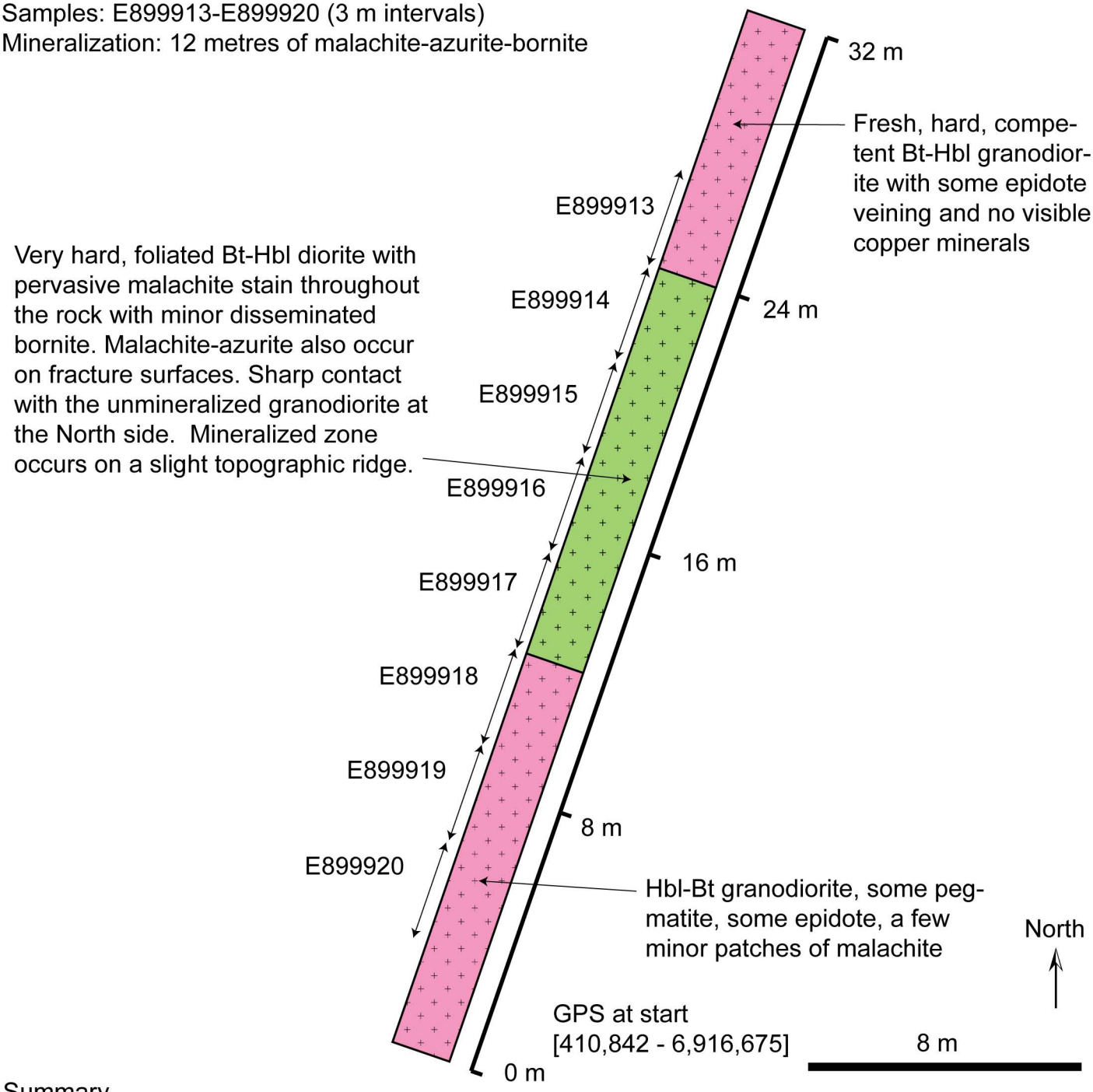
Trench 14TR-21 was located at the East end of the Zone 2 discovery outcrop ridge. The trench was oriented at a highly oblique angle to the 110° strike in order examine the nature of the fault that cuts off copper minerlization downstrike. Significant copper mineralization was intersected, both within the hard granodiorite and in the weak, altered fault rock.

Trench: 14TR-22

Azimuth: 020
Length: 32 m
Width: 4 m
Depth: 1.5 m
Overburden: ash, soil, colluvium (<0.5 m)
Samples: E899913-E899920 (3 m intervals)
Mineralization: 12 metres of malachite-azurite-bornite

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

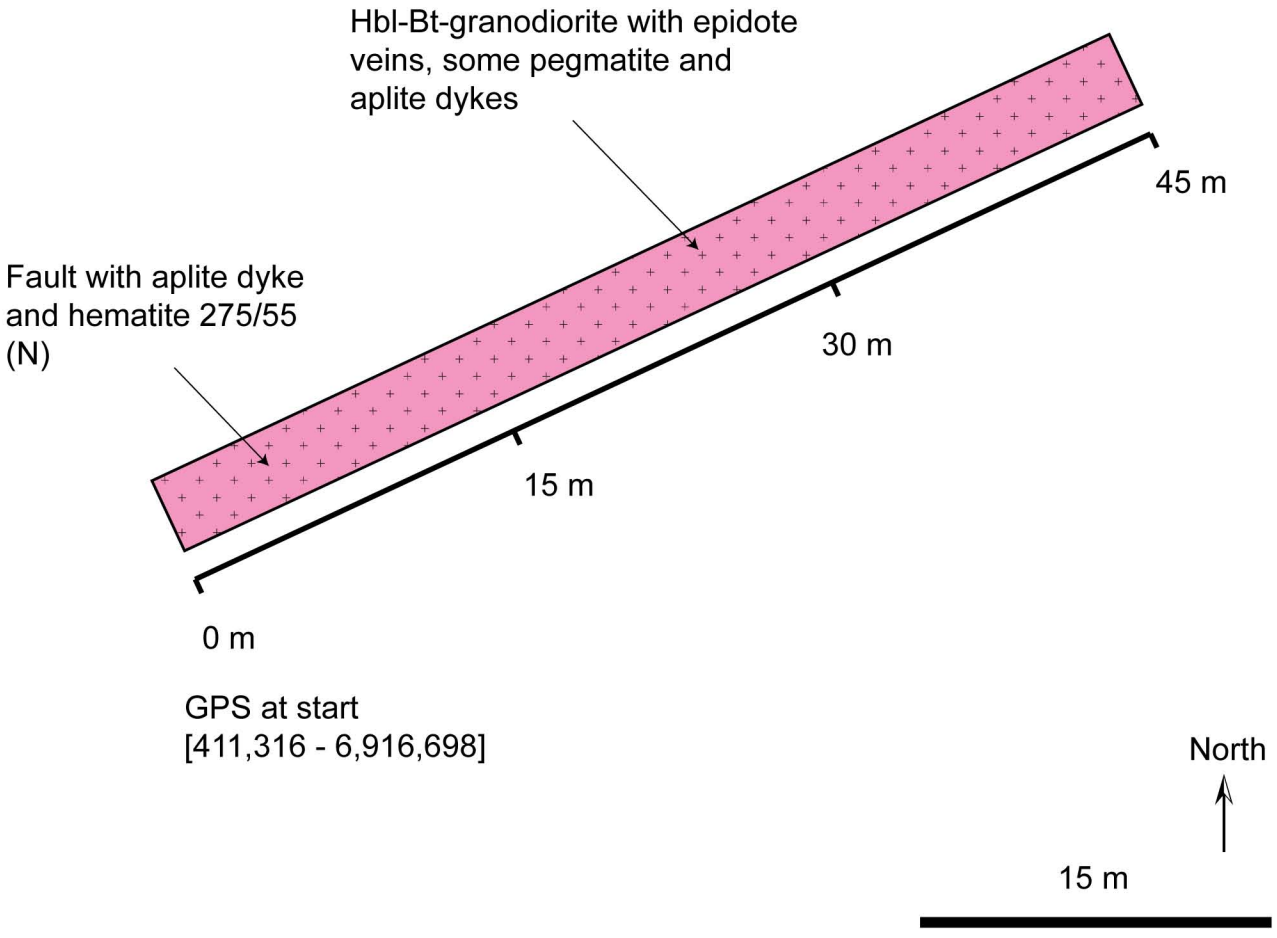
Trench 14TR-22 was located on the Zone 2 discovery outcrop ridge. The trench was oriented perpendicular to the 110° strike in order to get a true width of copper minerlization. 12 m of significant copper mineralization was intersected, with sharp northern and gradual southern contacts.

Trench: 14TR-23

Azimuth: 065
Length: 45 m
Width: 3.5 m
Depth: 1.5 m
Overburden: ash, soil and colluvium (<0.6 m).
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

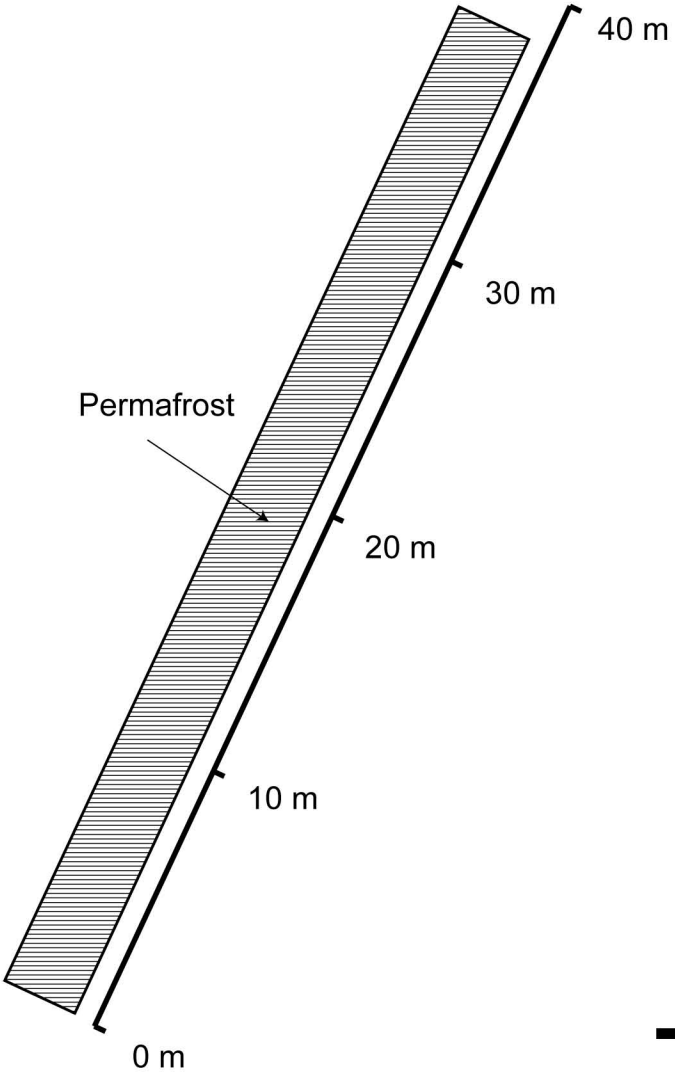
Trench 14TR-23 was located over chargeability and resistivity anomalies. The trench encountered no copper mineralization and the anomalies may have been generated by faults.

Trench: 14TR-24

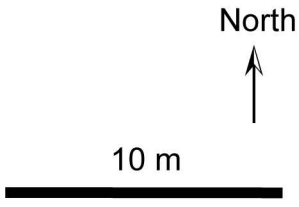
Azimuth: 025
Length: 38 m
Width: 4 m
Depth: 1.5 m
Overburden: >1.5 m of till, sand, ash and soil. Permafrost throughout
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[411,246- 6,916,473]



Summary

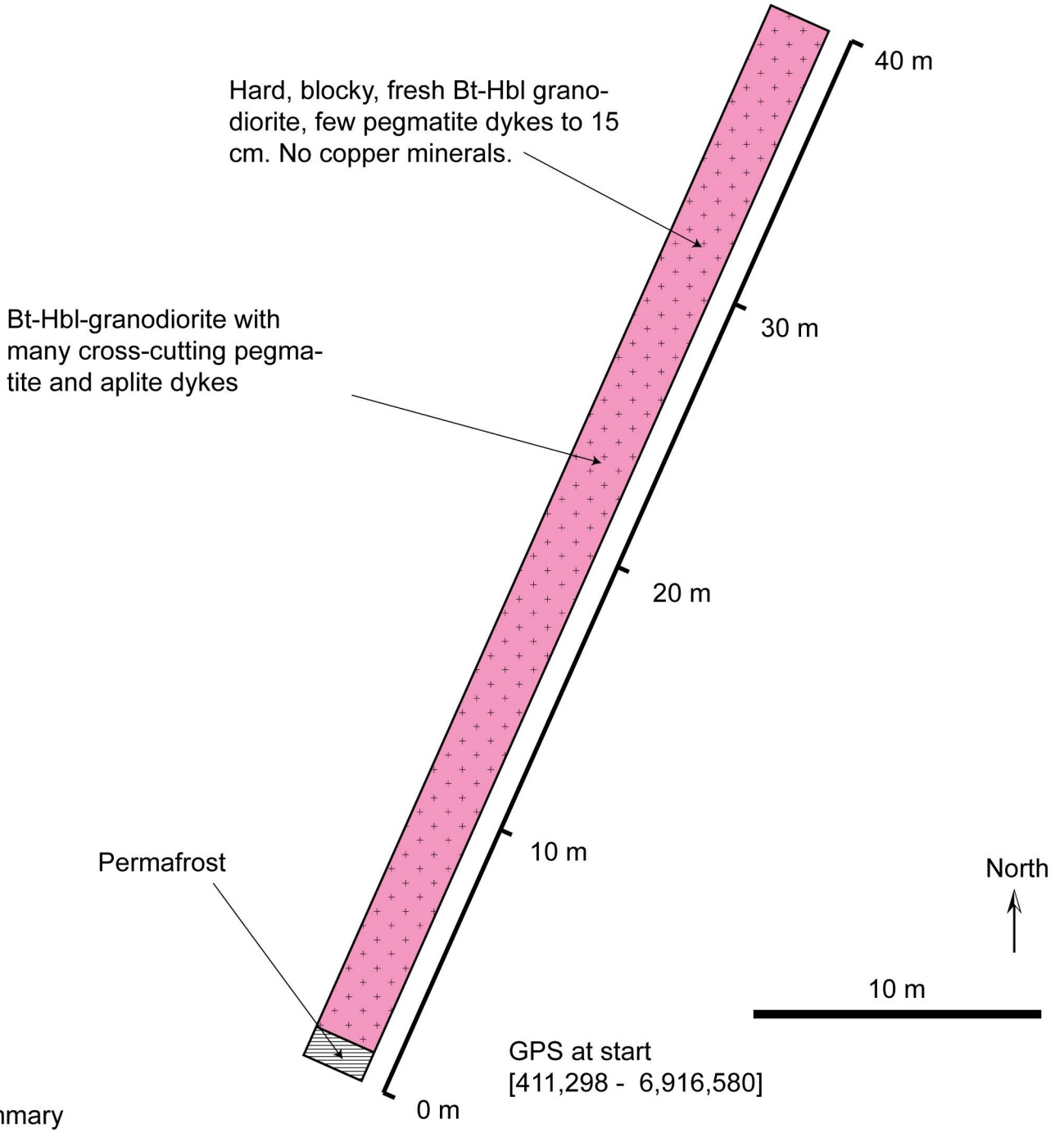
Trench 14TR-24 was located to attempt to step out along strike of the mineralized trend of Zone 2. The trench encountered frozen ground throughout and bedrock could not be reached.

Trench: 14TR-25

Azimuth: 025
Length: 40 m
Width: 2.5 m
Depth: 2.5 m
Overburden: ash, soil, colluvium (<0.7 m). Permafrost at south end
Samples: none
Mineralization: none

Copper North
Carmacks Zone 2
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

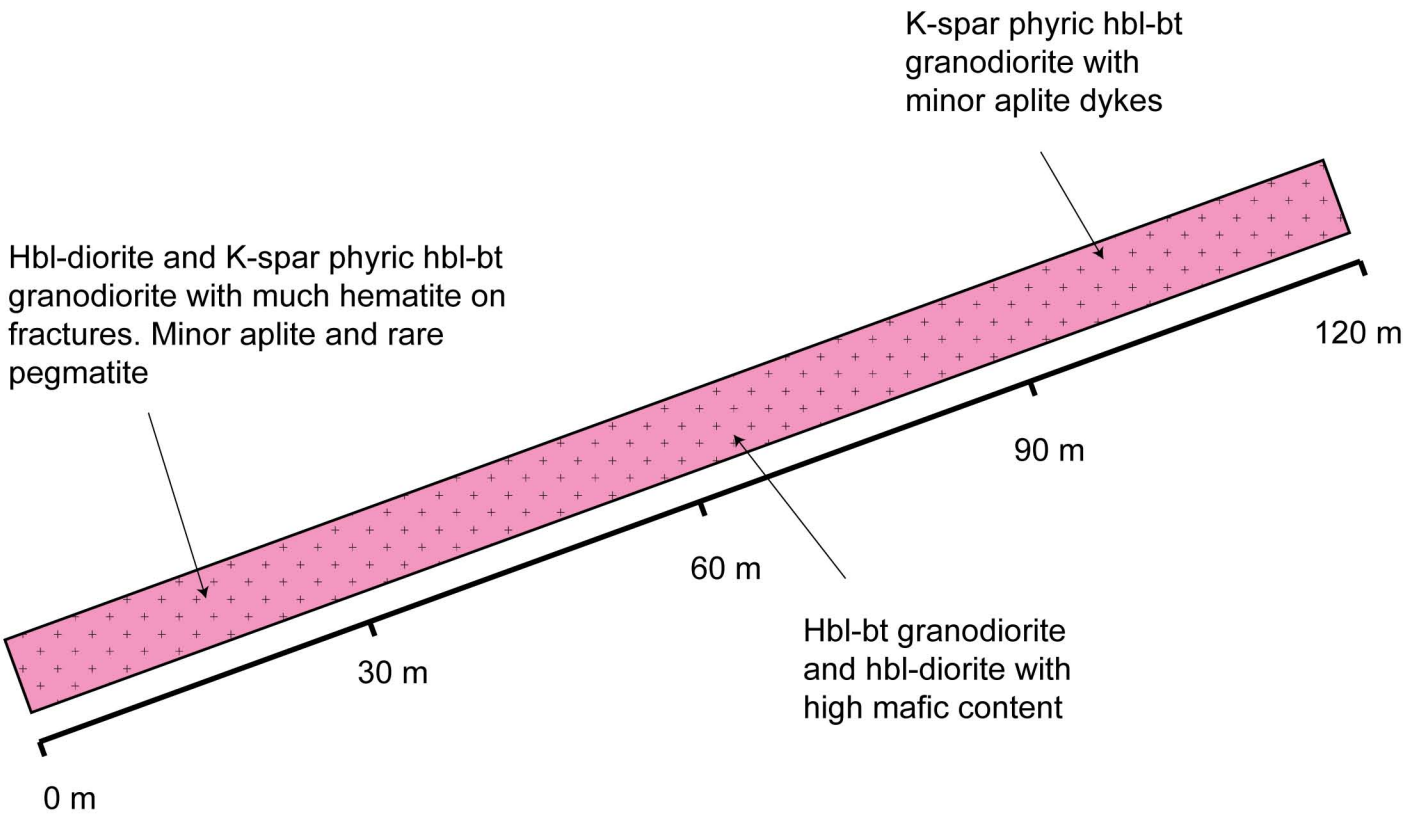
Trench 14TR-25 was located over a chargeability anomaly. No evidence for copper mineralization could be found, neither could any cause for the anomaly.

Trench: 14TR-26

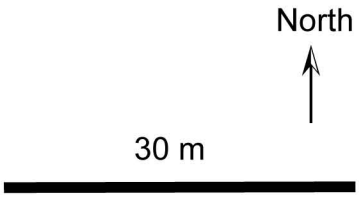
Azimuth: 070
Length: 120 m
Width: 1.5 m
Depth: 1 m
Overburden: > 0.5 m soil and ash
Samples: none
Mineralization: none

Copper North
Carmacks project, south of Williams Creek
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[413,828 - 6,913,060]



Summary

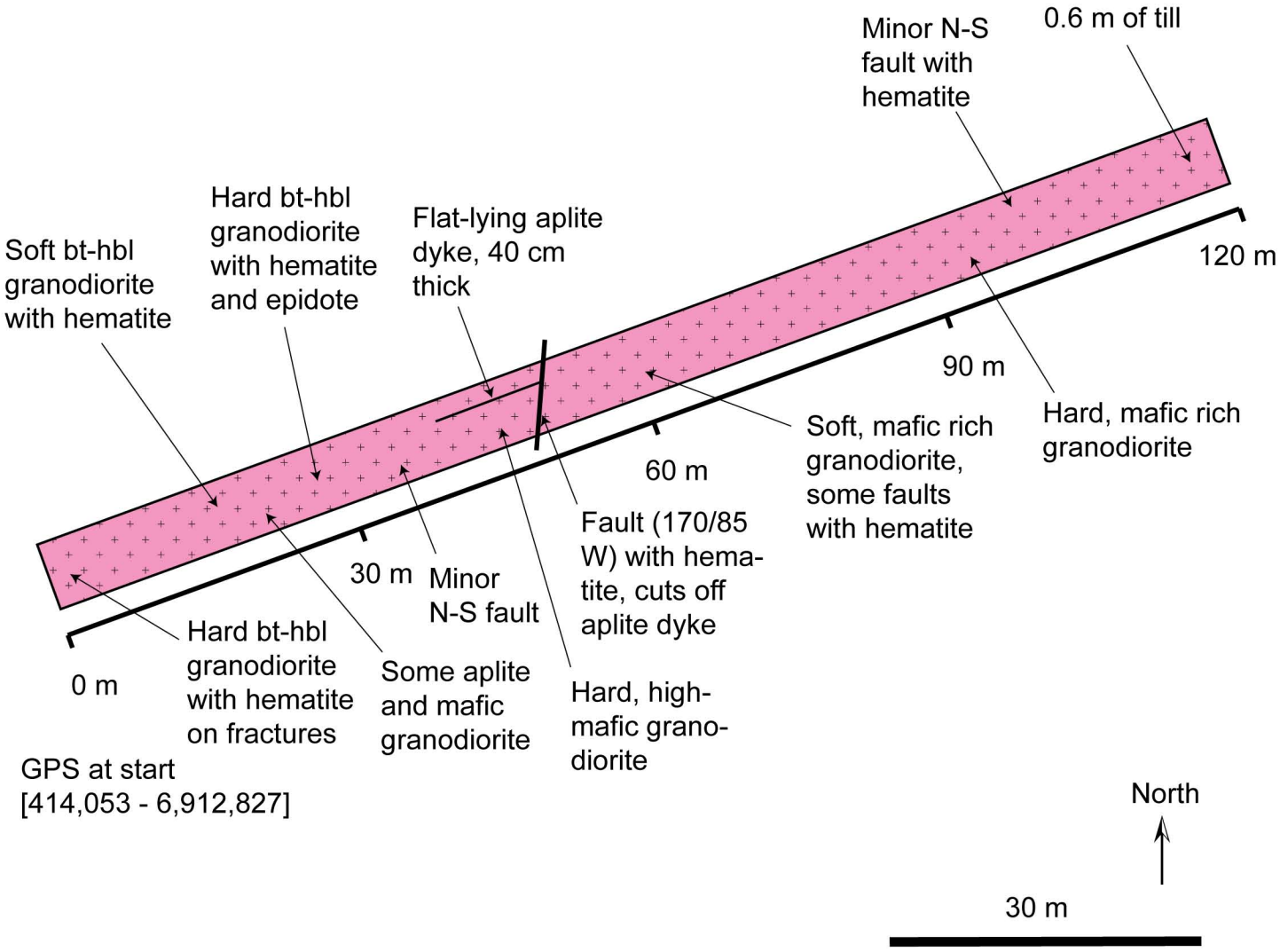
Trench 14TR-26 was located over a 2007 IP line (3600S). No copper mineralization observed.

Trench: 14TR-27

Azimuth: 070
Length: 120 m
Width: 3 m
Depth: 2 m
Overburden: 0.3 m soil and ash and 0.3 m of till
Samples: none
Mineralization: none

Copper North
Carmacks project, south of Williams Creek
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



Summary

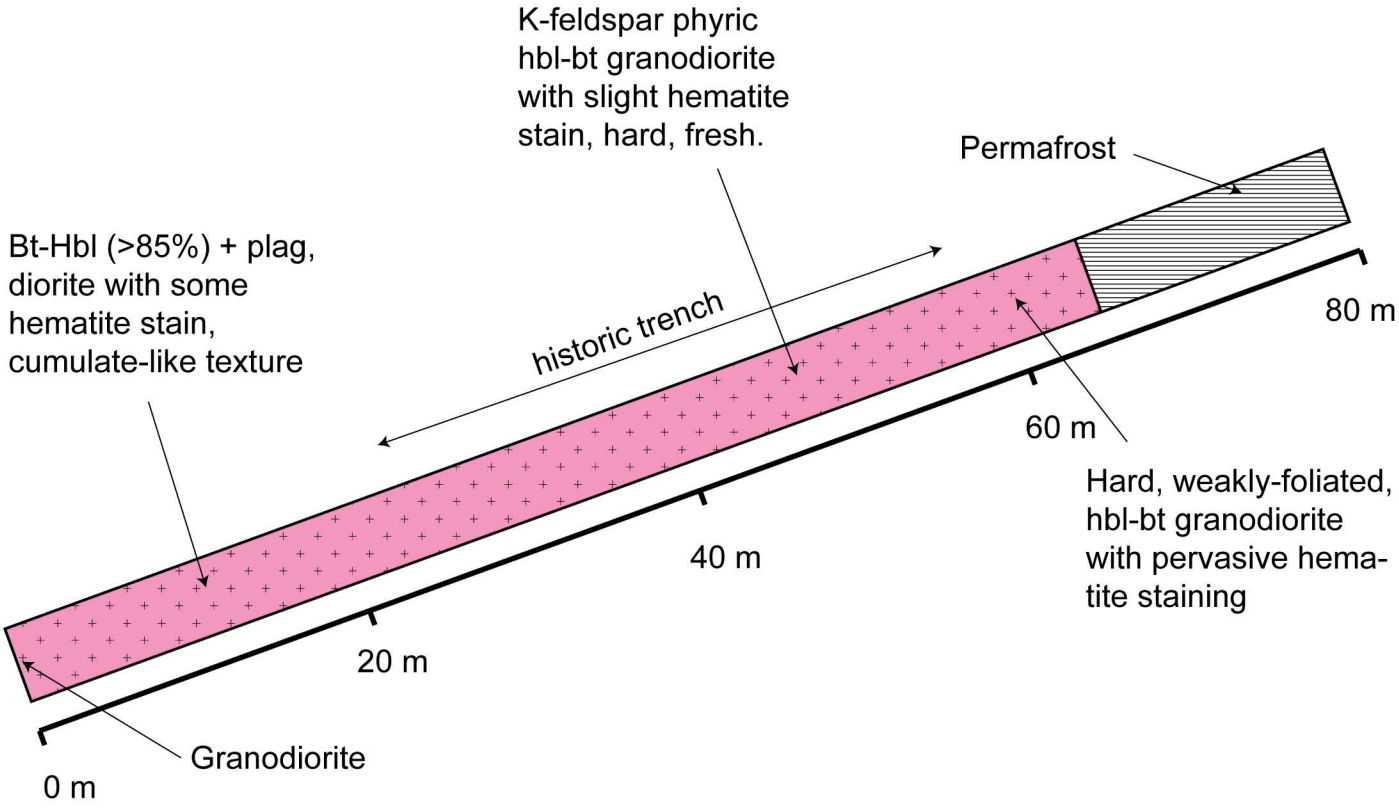
Trench 14TR-27 was located over a 2007 IP line (4400S). No copper mineralization observed.

Trench: 14TR-28

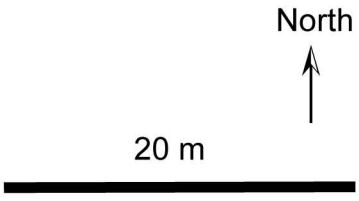
Azimuth: 070
Length: 80 m
Width: 3.5 m
Depth: 2 m
Overburden: > 1 m till, sand, soil, ash and permafrost
Samples: none
Mineralization: none

Copper North
Carmacks project, south of Williams Creek
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[412,172 - 6,912,062]



Summary

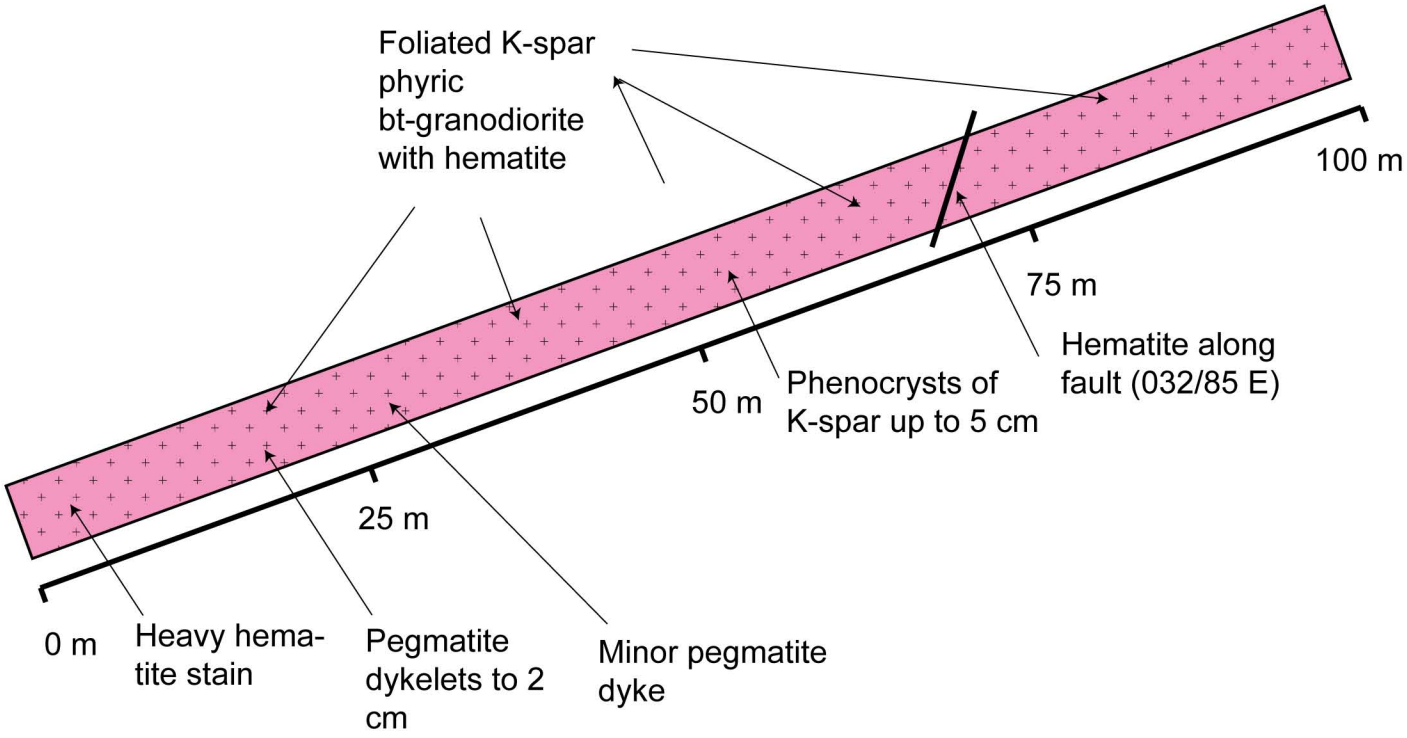
Trench 14TR-28 was located over a 2007 IP line (4400S) and historic trench. No copper mineralization observed.

Trench: 14TR-29

Azimuth: 070
Length: 100 m
Width: 2.5 m
Depth: 1.5 m
Overburden: 0.4 to 0.8 m of sand, till, ash and soil
Samples: none
Mineralization: none

Copper North
Carmacks project, south of Williams Creek
2014 Exploration program

co-ordinates UTM Z8 NAD 83
Date: 28/Aug/2014



GPS at start
[412,167 - 6,911,903]

Summary

Trench 14TR-29 was located over a 2007 IP line (4800S). No copper mineralization observed.

Appendix IV

Drill Logs

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-01

SECTION :

HOLE # : CN14-01

SECTION :

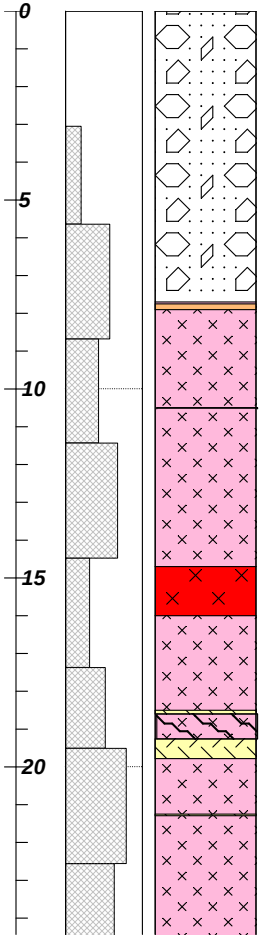
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916686 mN**
Easting : **410788 mE**
Elevation (m) : **876 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **26.85 m**
Azimuth (true) : **22**
Dip : **-45**
Claim :
NTS : 115I/07

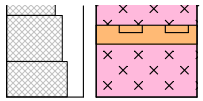
Overburden : **7.70 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 4, 2104**
Date Hole Completed : **Sept 4, 2014**



Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
		0.00	7.70		OVERBURDEN
		7.70	14.70		GRANODIORITE: K feldspar phyric granodiorite and hornblende diorite, foliated. Copper from 9.64 m to 19.78 m.
		14.70	16.00		META-DIORITE: Highly schistose and mafic rich dark bands of rock aligned at 49 degrees to CA, parallel to foliation. Mafics are hbl-bt-chl set in a matrix of plag. Interpreted as highly altered and metamorphosed diorite. Mafic bands are interbanded (intruded by?) on a cm to 10 cm scale with leucocratic granodiorite. Mineralized with copper
		16.00	26.85		GRANODIORITE: Granodiorite to hornblende diorite, locally K spar phyric. Faulted at ~19 m
					Aplite

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
5.60	6.60	1.00	E899551	0.004	0.007	<0.005	<0.5
6.60	7.60	1.00	E899552	0.006	0.009	<0.005	<0.5
7.60	8.60	1.00	E899553	0.012	0.021	<0.005	<0.5
8.60	9.60	1.00	E899554	0.004	0.006	<0.005	<0.5
9.60	10.60	1.00	E899555	0.435	0.509	0.055	2.4
10.60	11.60	1.00	E899556	0.516	0.581	0.057	1.9
11.60	12.60	1.00	E899557	0.987	1.100	0.094	3.4
12.60	13.60	1.00	E899558	0.246	0.308	0.024	1.7
13.60	14.60	1.00	E899559	0.294	0.333	0.062	3.8
14.60	15.60	1.00	E899560	0.621	0.684	0.051	10.7
15.60	16.60	1.00	E899561	0.681	0.812	0.034	19.5
16.60	17.60	1.00	E899562	0.242	0.288	0.011	2.1
17.60	18.60	1.00	E899563	0.190	0.213	0.033	4.1
18.60	19.78	1.18	E899564	0.584	0.606	0.171	9.5
19.78	20.80	1.02	E899565	0.003	0.003	<0.005	<0.5
20.80	21.80	1.00	E899566	0.005	0.006	<0.005	<0.5
21.80	22.80	1.00	E899567	0.003	0.003	<0.005	<0.5
22.80	23.80	1.00	E899568	0.001	0.001	<0.005	<0.5

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
25					Pegmatite								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-02 | **HOLE # :** CN14-02

SECTION : | **SECTION :**

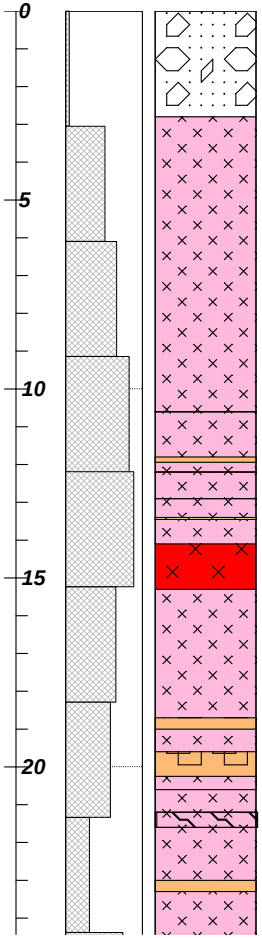
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916686 mN**
Easting : **410788 mE**
Elevation (m) : **876 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **54.86 m**
Azimuth (true) : **22**
Dip : **-70**
Claim :
NTS : 115I/07

Overburden : **2.8 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 4, 2014**
Date Hole Completed : **Sept 4, 2014**



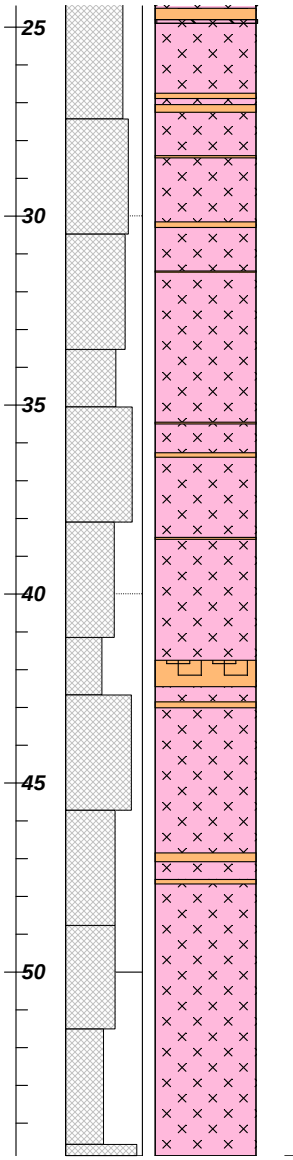
Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
0		0.00	2.80		Overburden: Casing, core loss
5		2.80	14.10		Granodiorite: K-feldspar phyric granodiorite, relatively fresh, biotite altered to chlorite. Phenocrysts up to 3 cm across. Some mafic rich areas. Aplite and pegmatite dykes
10					Pegmatite dyke
					Pegmatite dyke
					Mafic rich band
					Mafic rich band
15		14.10	15.30		Meta-diorite: Highly mafic, schistose, amphibole-porphyroblastic metadiorite (?) contains a highly folded phyric aplite with biotite phenocrysts aligned axial planar to folds and parallel the foliation. Upper contact at 39 degrees to CA. Foliation at 39 degrees to CA. Mineralized with copper.
		15.30	54.86		Granodiorite: Granodiorite as 2.8 m, mineralized with copper to 15.3 to 21.6 m. Cut by faults at 24.8 and 21.2 m.
20					Pegmatite dyke
					Soft, friable green rock (epidotized?) with hematite and malachite.
					gouge, hematite and clay in highly altered rock. Malachite stained
					Pegmatite dyke

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
10.10	11.10	1.00	E899569	0.004	0.007	<0.005	<0.5
11.10	12.10	1.00	E899570	0.004	0.004	<0.005	<0.5
12.10	13.10	1.00	E899571	0.001	<0.001	<0.005	<0.5
13.10	14.10	1.00	E899572	0.008	0.011	<0.005	<0.5
14.10	15.10	1.00	E899573	0.616	0.636	0.077	8.0
15.10	16.10	1.00	E899574	0.634	0.705	0.230	43.6
16.10	17.10	1.00	E899575	0.663	0.697	0.106	67.6
17.10	18.10	1.00	E899576	0.214	0.249	0.023	9.2
18.10	19.10	1.00	E899577	0.372	0.393	0.122	6.9
19.10	20.10	1.00	E899578	0.096	0.099	0.010	5.5
20.10	21.10	1.00	E899579	0.671	0.717	0.541	24.1
21.10	21.60	0.50	E899580	0.136	0.145	0.065	5.3
21.60	22.60	1.00	E899581	0.035	0.047	<0.005	0.7
22.60	23.60	1.00	E899582	0.017	0.022	<0.005	<0.5
23.60	24.60	1.00	E899583	0.002	0.004	<0.005	<0.5

CARMACKS COPPER PROJECT

HOLE # : CN14-02



From (m)	To (m)	Unit	DESCRIPTION
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
	24.60	25.60	1.00	E899584	0.002	0.004	<0.005	<0.5

HOLE # : CN14-03

SECTION :

CARMACKS COPPER PROJECT

HOLE # : CN14-03

SECTION :

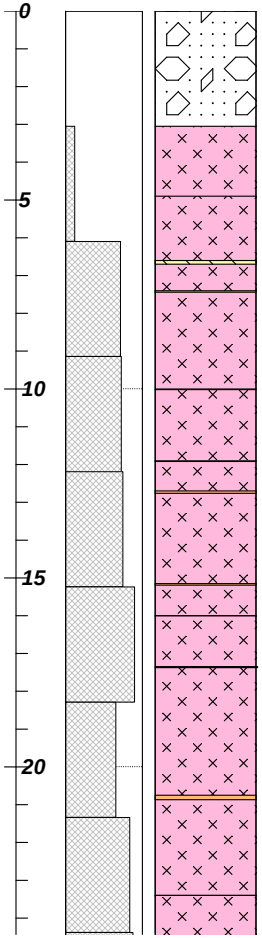
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916665 mN**
Easting : **410847 mE**
Elevation (m) : **872 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **44.20 m**
Azimuth (true) : **22**
Dip : **-46**
Claim :
NTS : 115I/07

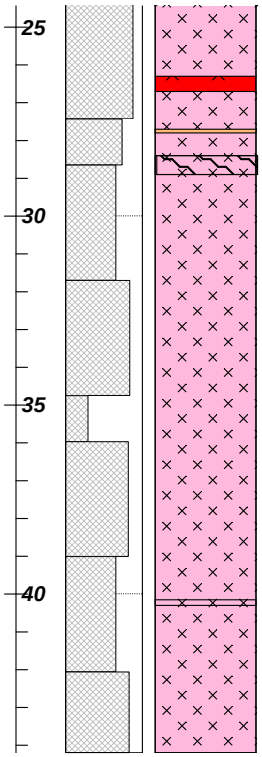
Overburden : **3.05 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 5, 2014**
Date Hole Completed : **Sept 5, 2014**



From (m)	To (m)	Unit	DESCRIPTION
0.00	3.05		OVERBURDEN: Casing, no recovery
3.05	4.90		GRANODIORITE: Broken core, poor recovery, granodiorite, epidote-hematite altered. Some mafic rich areas.
4.90	26.30		Granodiorite: Biotite-granodiorite, weakly foliated with chlorite after biotite. Porphyritic, locally feldspar phenocrysts up to 5 cm. Magmatic disseminated magnetite throughout.
			Pegmatite dyke
			Aplite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Foliation at 44 degrees to CA
			Pegmatite dyke
			Foliation at 38 degrees to CA

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
10.40	11.40	1.00	E899585	0.003	0.006	<0.005	<0.5
11.40	12.40	1.00	E899586	0.005	0.015	<0.005	<0.5
12.40	13.40	1.00	E899587	0.003	0.007	<0.005	<0.5
13.40	14.40	1.00	E899588	0.005	0.009	<0.005	<0.5
14.40	15.40	1.00	E899589	<0.001	<0.001	<0.005	<0.5
15.40	16.40	1.00	E899590	<0.001	<0.001	<0.005	<0.5
16.40	17.40	1.00	E899591	0.010	0.013	0.015	<0.5
17.40	18.40	1.00	E899592	0.001	0.002	<0.005	<0.5
18.40	19.40	1.00	E899593	0.004	0.011	<0.005	<0.5
19.40	20.40	1.00	E899594	0.004	0.008	<0.005	<0.5
20.40	21.06	0.66	E899595	0.019	0.024	<0.005	<0.5
21.06	22.00	0.94	E899596	0.216	0.255	0.014	<0.5
22.00	23.00	1.00	E899597	0.105	0.116	0.006	<0.5
23.00	24.00	1.00	E899601	0.089	0.115	<0.005	<0.5



From (m)	To (m)	Unit	DESCRIPTION
			26.30, 26.70 META-DIORITE: Igneous hornblende-biotite rock (100% hbl-bt); perhaps either a mafic dyke or potassic alteration (intense) or K-alteration of mafic dyke
			Pegmatite dyke
			26.70, 44.20 Granodiorite: Gd as 4.9 m
			Diorite dyke, high in mafics, mineralized.

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
24.00	25.00	1.00	E899602	0.153	0.170	0.031	3.0
25.00	26.00	1.00	E899603	0.194	0.219	0.016	0.9
26.00	27.00	1.00	E899604	0.402	0.441	0.023	0.6
27.00	28.00	1.00	E899605	0.212	0.269	0.008	0.9
28.00	28.40	0.40	E899606	0.138	0.179	0.012	1.5
28.40	28.95	0.55	E899607	1.835	2.000	0.350	30.7
28.95	30.00	1.05	E899608	0.026	0.040	<0.005	0.7
30.00	31.00	1.00	E899609	0.061	0.092	0.007	<0.5
31.00	32.00	1.00	E899610	0.030	0.042	0.011	<0.5
32.00	33.00	1.00	E899611	0.011	0.025	<0.005	<0.5
33.00	34.00	1.00	E899612	0.025	0.054	<0.005	<0.5
34.00	35.00	1.00	E899613	0.015	0.032	0.031	<0.5
35.00	36.00	1.00	E899614	0.003	0.005	0.351	<0.5
36.00	37.00	1.00	E899615	0.074	0.107	0.007	<0.5
37.00	38.00	1.00	E899616	0.055	0.100	<0.005	0.6
38.00	39.00	1.00	E899617	0.011	0.026	<0.005	<0.5
39.00	40.00	1.00	E899618	0.003	0.004	<0.005	1.1
40.00	41.00	1.00	E899619	0.154	0.225	<0.005	6.1
41.00	42.00	1.00	E899620	0.021	0.092	<0.005	3.2
42.00	43.00	1.00	E899621	0.011	0.020	0.048	1.4
43.00	44.20	1.20	E899622	0.007	0.013	<0.005	<0.5

HOLE # : **CN14-04**

SECTION :

CARMACKS COPPER PROJECT

HOLE # : **CN14-04**

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916665 mN**
Easting : **410847 mE**
Elevation (m) : **872 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **68.58 m**
Azimuth (true) : **22**
Dip : **-70**
Claim :
NTS : 115I/07

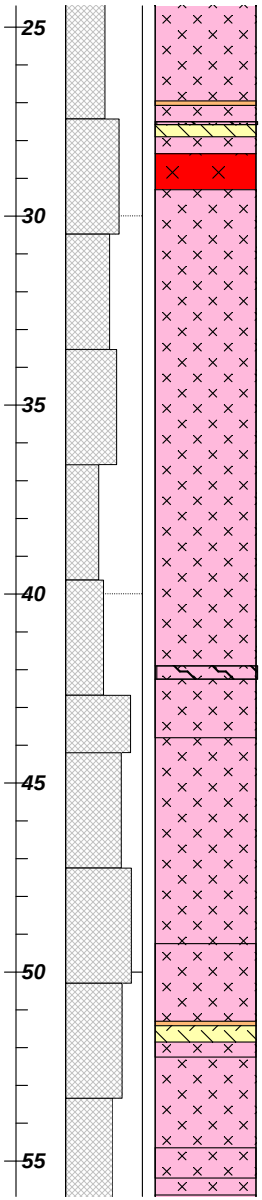
Overburden : **3.05 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 5, 2014**
Date Hole Completed : **Sept 6, 2014**

Depth (m) | R.Q.D. weak strong

From (m)	To (m)	Unit	DESCRIPTION
0.00	4.00		OVERBURDEN
4.00	28.35		Granodiorite: hbl-bt granodiorite, weakly to moderately well foliated, locally porphyritic. Generally quite fresh and hard. Some chlorite after biotite. Magmatic disseminated magnetite.
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Pegmatite dyke
			Aplite dyke
			Aplite dyke

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
4.00	5.00	1.00	E899623	0.007	0.015	<0.005	<0.5
5.00	6.00	1.00	E899624	0.056	0.073	<0.005	0.5
6.00	7.00	1.00	E899625	0.117	0.146	<0.005	1.4
7.00	8.00	1.00	E899626	0.009	0.015	<0.005	<0.5
8.00	9.00	1.00	E899627	0.001	<0.001	<0.005	<0.5
9.00	10.00	1.00	E899628	<0.001	<0.001	<0.005	<0.5
10.00	11.00	1.00	E899629	0.005	0.009	<0.005	<0.5
11.00	12.00	1.00	E899630	0.001	0.002	<0.005	<0.5
12.00	13.00	1.00	E899631	0.007	0.012	<0.005	<0.5
13.00	14.00	1.00	E899632	0.003	0.006	<0.005	<0.5
14.00	15.00	1.00	E899633	0.001	0.002	<0.005	<0.5
15.00	16.00	1.00	E899634	0.002	0.002	0.009	<0.5
16.00	17.00	1.00	E899635	0.005	0.015	0.005	<0.5
17.00	18.00	1.00	E899636	0.003	0.011	0.120	<0.5
18.00	19.00	1.00	E899637	0.001	0.004	<0.005	<0.5
19.00	20.00	1.00	E899638	<0.001	0.001	<0.005	<0.5
20.00	21.00	1.00	E899639	0.014	0.027	<0.005	<0.5
21.00	22.00	1.00	E899640	0.013	0.022	<0.005	<0.5
22.00	23.00	1.00	E899641	0.064	0.085	0.008	0.5
23.00	24.00	1.00	E899642	0.004	0.009	0.085	<0.5



From (m)	To (m)	Unit	DESCRIPTION
			Pegmatite dyke Fault gouge, clay with iron oxides at 77 degrees to CA
			28.35, 29.30 META-DIORITE: Highly mafic, black hbl-bt-chl-plag diorite dyke with bottom contact at 42 degrees to CA. May be a good marker unit to correlate holes 1, 2 and 3
			29.30, 68.58 Granodiorite: Granodiorite as 4m
			Fault gouge, hematite clay with green sheared gouge, some carbonate veins. Sheared up granodiorite and pegmatite, highly altered (hematite + epidote)
			Fine-grained, light grey, biotite-phyric tonalite
			Pegmatite dyke Fine-grained, light grey, biotite-phyric tonalite
			Altered (hematized) tonalite

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
24.00	25.00	1.00	E899643	0.035	0.054	<0.005	<0.5
25.00	26.00	1.00	E899644	0.026	0.039	<0.005	<0.5
26.00	27.00	1.00	E899645	0.048	0.077	<0.005	<0.5
27.00	28.00	1.00	E899646	0.012	0.029	0.006	<0.5
28.00	28.35	0.35	E899647	0.017	0.038	<0.005	<0.5
28.35	28.90	0.55	E899651	0.084	0.111	0.006	0.6
28.90	29.30	0.40	E899652	0.958	1.123	0.049	13.9
29.30	30.30	1.00	E899653	0.342	0.419	0.026	3.3
30.30	31.30	1.00	E899654	0.264	0.313	0.028	2.8
31.30	32.30	1.00	E899655	0.248	0.301	0.036	4.6
32.30	33.30	1.00	E899656	0.370	0.430	0.042	8.3
33.30	34.30	1.00	E899657	0.417	0.466	0.115	5.1
34.30	35.30	1.00	E899658	0.182	0.212	0.047	2.6
35.30	36.30	1.00	E899659	0.416	0.488	0.023	3.4
36.30	37.30	1.00	E899660	0.391	0.450	0.011	2.6
37.30	38.30	1.00	E899661	0.613	0.718	0.054	3.7
38.30	39.30	1.00	E899662	0.463	0.523	0.037	4.9
39.30	40.30	1.00	E899663	0.602	0.705	0.093	6.5
40.30	41.30	1.00	E899664	0.299	0.729	0.079	5.6
41.30	42.20	0.90	E899665	0.144	0.661	0.130	21.6
42.20	43.20	1.00	E899666	0.010	0.018	0.182	<0.5
43.20	44.20	1.00	E899667	0.008	0.018	<0.005	<0.5
44.20	45.20	1.00	E899668	0.016	0.027	<0.005	<0.5
45.20	46.20	1.00	E899669	0.003	0.007	<0.005	<0.5

CARMACKS COPPER PROJECT

HOLE # : CN14-04

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data: From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
60					Zone of hbl-bt (alteration or dyke?) at low angle to CA, diffuse margins Tonalite dykes Some sheared rock								
65					Pegmatite dyke								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-05

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**

Northing : **6916554 mN**

Easting : **411024 mE**

Elevation (m) : **848 m**

Grid Name : **Zone 2**

Core Size: **NTW**

Hole Length : **50.29 m**

Azimuth (true) : **22**

Dip : **-45**

Claim :

NTS : 115I/07

HOLE # : CN14-05

SECTION :

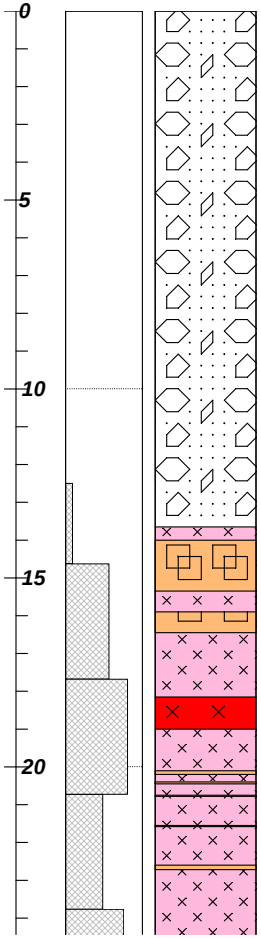
Overburden : **13.65 m**

Contractor : Kluane Drilling Ltd

Logged By : **Jack Milton**

Date Hole Started : **Sept 6, 2014**

Date Hole Completed : **Sept 6, 2014**



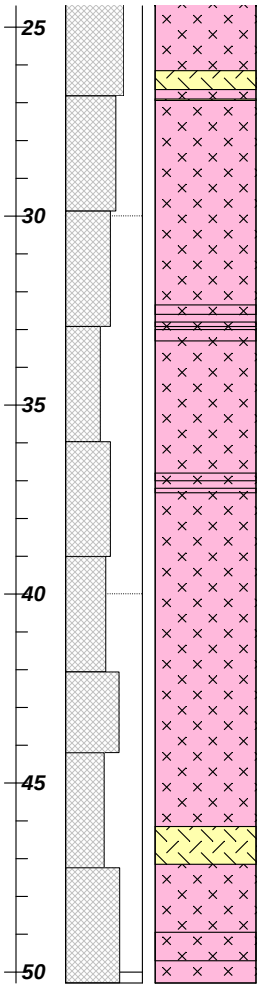
From (m)	To (m)	Unit	DESCRIPTION
0.00	13.65		OVERBURDEN: Casing, poor recovery and much mud/overburden
13.65	18.15		Granodiorite: Granodiorite (biotite-qtz-monzodiorite?) vuggy cavities in granodiorite with malachite biotite-granite pegmatite dyke
18.15	19.00		META-DIORITE: Mafic dyke, amygdaloidal with calcite amygdales. Sharp contacts with granodiorite, fine grained. Likely feeder to the Carmacks Group Cretaceous volcanic rocks. Moderately magnetic. Upper contact 43 degrees to CA, lower contact 41 degrees to CA
19.00	50.29		Granodiorite: Granodiorite with biotite, locally foliated. Massive to porphyritic. Feldspar phenocrysts in point-point contact or in amalgamated masses, floating in coarse mafic (biotite after hbl) matrix. Some chl after bt. Disseminated

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
13.70	14.70	1.00	E899670	0.001	0.003	<0.005	<0.5
14.70	15.50	0.80	E899671	0.008	0.013	<0.005	<0.5
15.50	16.50	1.00	E899672	0.177	0.674	0.297	4.8
16.50	17.50	1.00	E899673	0.071	0.126	0.041	0.9
17.50	18.15	0.65	E899674	0.005	0.010	<0.005	<0.5
18.15	19.00	0.85	E899675	0.009	0.017	<0.005	<0.5
19.00	20.00	1.00	E899676	0.053	0.151	0.033	1.2
20.00	21.00	1.00	E899677	0.023	0.060	<0.005	<0.5
21.00	22.00	1.00	E899678	0.042	0.082	0.021	<0.5
22.00	23.00	1.00	E899679	0.257	0.318	0.041	1.7
23.00	24.00	1.00	E899680	0.413	0.470	0.111	2.0

CARMACKS COPPER PROJECT

HOLE # : CN14-05



From (m)	To (m)	Unit	DESCRIPTION
			magnetite.
			Aplite dyke, pink, with biotite phenocrysts
			Aplite dyke with pegmatitic margins
			Unconsolidated sand or highly decomposed rock. Qtz-mica, angular grains
			Light grey tonalite dyke, biotite-phyric
			Light grey tonalite dyke, biotite-phyric
			Pink aplite dyke
			2 cm thick tonalite dyke runs parallel to CA

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
24.00	25.00	1.00	E899681	0.004	0.011	<0.005	<0.5
25.00	26.00	1.00	E899682	0.013	0.026	<0.005	<0.5
26.00	27.00	1.00	E899683	0.029	0.051	<0.005	<0.5
27.00	28.00	1.00	E899684	0.083	0.168	0.020	0.6
28.00	29.00	1.00	E899685	0.406	0.761	0.076	3.8
29.00	30.00	1.00	E899686	0.040	0.075	0.015	<0.5
30.00	31.00	1.00	E899687	0.160	0.278	0.045	1.3
31.00	32.00	1.00	E899688	0.200	0.291	0.047	2.1
32.00	33.00	1.00	E899689	0.103	0.248	0.019	<0.5
33.00	34.00	1.00	E899690	0.094	0.143	0.025	0.7
34.00	35.00	1.00	E899691	0.068	0.109	0.044	1.1
35.00	36.00	1.00	E899692	0.008	0.018	<0.005	<0.5
36.00	37.00	1.00	E899693	0.004	0.010	<0.005	<0.5
37.00	38.00	1.00	E899694	<0.001	0.002	<0.005	<0.5
38.00	39.00	1.00	E899695	<0.001	0.001	<0.005	<0.5

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-06

SECTION :

HOLE # : CN14-06

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916554 mN**
Easting : **411024 mE**
Elevation (m) : **848 m**

Grid Name : **Zone 2**
Core Size: **NTW**

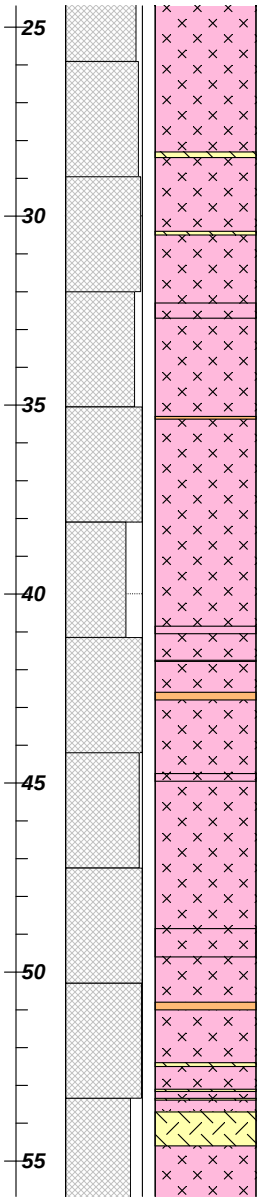
Hole Length : **91.44 m**
Azimuth (true) : **22**
Dip : **-70**
Claim :
NTS : 115I/07

Overburden : **7.7 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 6, 2014**
Date Hole Completed : **Sept 7, 2014**

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample From (m)	Sample To (m)	Sample Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
0		0.00	7.70		OVERBURDEN: Overburden								
5		7.70	8.60		CARMACKS VOLCANICS: Black, mafic amygdaloidal dyke. Cretaceous Carmacks Volcanic feeder structure. Amygdales are filled with calcite.								
10		8.60	91.44		GRANODIORITE: Hornblende-biotite diorite ('granodiorite'), massive to weakly foliated. Mass of feldspar (mostly plag) phenocrysts in matrix of hbl-bt and chlorite after hbl-bt. Coarse grained, some areas coarser than others. Magnetic due to magmatic disseminated magnetite. Cut by aplite, pegmatite and tonalite dykes. In places highly altered and sheared up. Copper mineralization mostly as isolated occurrences within the interval 52.9 to 56.7 m but also more isolated occurrences above and below between 36.7 and 65.25 m.								
15					Fine grained aplite dyke bordered by pegmatite								
20					Fine grained aplite dyke Fine grained aplite dyke Fine grained aplite dyke								

CARMACKS COPPER PROJECT

HOLE # : CN14-06



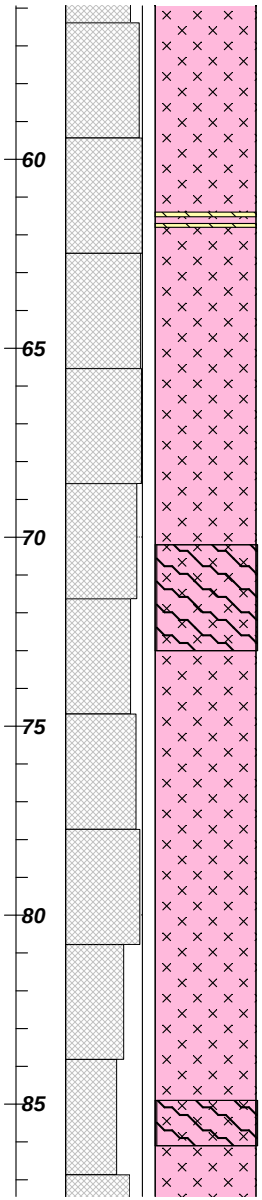
From (m)	To (m)	Unit	DESCRIPTION
			Fine grained aplite dyke bordered by pegmatite
			Fine grained aplite dyke
			Tonalite dyke, light grey
			Granite pegmatite dyke
			Tonalite dyke, light grey
			Tonalite dyke, light grey
			Granite pegmatite dyke
			Tonalite dyke, light grey
			Tonalite dyke, light grey
			Granite pegmatite dyke
			Fine grained aplite dyke
			Fine grained aplite dyke

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
34.70	35.70	1.00	E899696	0.056	0.106	0.012	0.6
35.70	36.70	1.00	E899697	0.064	0.110	0.020	0.6
36.70	37.70	1.00	E899701	0.041	0.068	0.019	<0.5
37.70	38.70	1.00	E899702	0.003	0.009	<0.005	<0.5
38.70	39.70	1.00	E899703	0.021	0.039	0.011	<0.5
39.70	40.70	1.00	E899704	0.009	0.017	0.009	<0.5
40.70	41.70	1.00	E899705	0.092	0.223	0.016	1.1
41.70	42.70	1.00	E899706	0.128	0.181	0.026	0.7
42.70	43.70	1.00	E899707	0.009	0.022	0.005	<0.5
43.70	44.70	1.00	E899708	0.009	0.026	0.006	<0.5
44.70	45.70	1.00	E899709	0.001	0.003	<0.005	<0.5
45.70	46.70	1.00	E899710	0.001	0.005	<0.005	<0.5
46.70	47.70	1.00	E899711	0.038	0.068	0.011	<0.5
47.70	48.70	1.00	E899712	0.009	0.021	<0.005	<0.5
48.70	49.70	1.00	E899713	0.052	0.071	0.030	<0.5
49.70	50.70	1.00	E899714	0.135	0.200	0.048	1.2
50.70	51.70	1.00	E899715	0.002	0.006	<0.005	<0.5
51.70	52.70	1.00	E899716	0.009	0.022	0.005	<0.5
52.70	53.70	1.00	E899717	0.919	3.067	0.500	14.4
53.70	54.70	1.00	E899718	0.034	0.044	0.011	<0.5
54.70	55.70	1.00	E899719	0.336	0.653	0.113	3.6

CARMACKS COPPER PROJECT

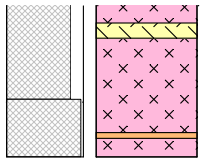
HOLE # : CN14-06



From (m)	To (m)	Unit	DESCRIPTION
			Fine grained aplite dyke
			Highly altered, sheared up granodiorite. Hematized, chloritized and epidotized. Carbonate veins. Cataclasite and fault rock. Gouge at 71.9 m (hematite). Gouge at 56 degrees to CA.
			Fault rock, highly sheared and altered, hematized. Some aplite along fault. Gouge at 86.0 m runs almost parallel to CA

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
55.70	56.70	1.00	E899720	0.149	0.226	0.035	1.2
56.70	57.70	1.00	E899721	0.172	0.240	0.030	2.3
57.70	58.70	1.00	E899722	0.042	0.068	0.014	0.8
58.70	59.70	1.00	E899723	0.016	0.033	0.008	<0.5
59.70	60.70	1.00	E899724	0.251	0.352	0.100	4.6
60.70	61.70	1.00	E899725	0.009	0.019	0.005	<0.5
61.70	62.70	1.00	E899726	0.002	0.008	<0.005	<0.5
62.70	63.70	1.00	E899727	0.002	0.005	<0.005	<0.5
63.70	64.70	1.00	E899728	<0.001	0.001	<0.005	<0.5
64.70	65.35	0.65	E899729	0.002	0.005	<0.005	<0.5
65.35	66.35	1.00	E899730	0.025	0.038	0.024	<0.5
66.35	67.35	1.00	E899731	<0.001	<0.001	<0.005	<0.5

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
90					Fine grained aplite dyke bordered by pegmatite Granite pegmatite dyke								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-07 | **HOLE # :** CN14-07

SECTION : | **SECTION :**

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916526 mN**
Easting : **411095 mE**
Elevation (m) : **861 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **50.79 m**
Azimuth (true) : **22**
Dip : **-45**
Claim :
NTS : 115I/07

Overburden : **9.90 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 7, 2014**
Date Hole Completed : **Sept 7, 2014**

Depth (m) | R.Q.D. weak strong

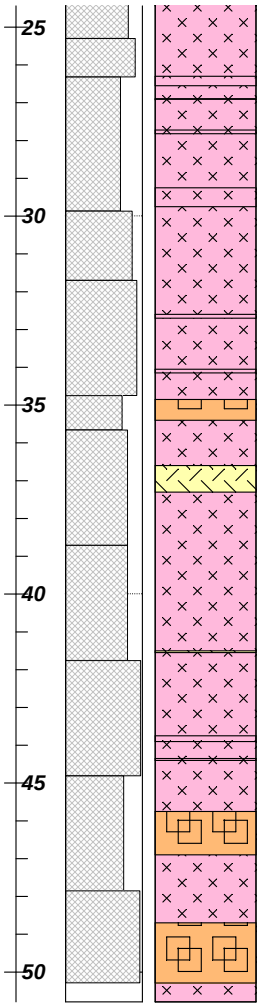
From (m)	To (m)	Unit	DESCRIPTION
0.00	9.90		Overburden: Casing, poor recovery
9.90	50.79		Granodiorite: Plag-porphyritic, with biotite and hornblende. Quite quartz-poor, composition tending towards diorite/qtz-diorite/monzodiorite. Some intervals dominated by mafics. Weakly to moderatley well foliated. Magmatic accessory magnetite. Cross cut by tonalite, aplite and pegmatite dykes. Many low-angle millimetre to submillimetre hematite-carbonate veins that cross cut earlier high-angle veins of epidote-hematite.
19.20	20.20		Mafic-dominated interval with ~80% mafics (Hbl-Bt) and ~20% feldspar. Diffuse margins with granodiorite
23.20	24.20		Aplite dyke, with pegmatitic margins

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
19.20	20.20	1.00	E899732	<0.001	<0.001	<0.005	<0.5
20.20	21.20	1.00	E899733	0.005	0.014	0.009	<0.5
21.20	22.20	1.00	E899734	0.016	0.030	0.029	<0.5
22.20	23.20	1.00	E899735	0.009	0.020	0.011	<0.5
23.20	24.20	1.00	E899736	0.015	0.026	0.006	<0.5

CARMACKS COPPER PROJECT

HOLE # : CN14-07



From (m)	To (m)	Unit	DESCRIPTION
			Mafic-dominated interval with ~50% mafics (Hbl-Bt) and ~50% feldspar. Diffuse margins with granodiorite. Cut in centre by 5 cm tonalite dyke at 67 degrees to C A
			Tonalite, light grey dyke with xenoliths of granodiorite
			Broken and fractured ground, some hematite veins with slicks. Possible faulting. Also rich in mafics
			Rock appears milled - some grain size reduction and feldspar grains with tails. Much hematite. Perhaps a small brittle-ductile fault zone.
			5 cm wide tonalite dyke at 45 CA
			Pegmatite dyke, some epidote on fractures
			Pink aplite dyke
			Pink aplite dyke
			Light grey to white biotite-phyric tonalite dyke
			White, fine grained biotite-phyric tonalite dyke
			Biotite-granite pegmatite one grain of bornite, oxidized to malachite
			Biotite-granite pegmatite interfingered with the granodiorite at the top contact

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
24.20	25.20	1.00	E899737	0.096	0.136	0.040	0.8
25.20	26.20	1.00	E899738	0.018	0.036	0.006	<0.5
26.20	27.20	1.00	E899739	0.140	0.197	0.042	1.0
27.20	28.20	1.00	E899740	0.182	0.232	0.077	1.5
28.20	29.20	1.00	E899741	0.057	0.105	0.026	0.5
29.20	30.20	1.00	E899742	0.032	0.062	0.020	<0.5
30.20	31.20	1.00	E899743	0.133	0.200	0.056	1.1
31.20	32.30	1.10	E899744	0.044	0.073	0.017	0.5
32.30	33.30	1.00	E899745	0.094	0.149	0.081	1.0
33.30	34.30	1.00	E899746	0.001	0.002	<0.005	<0.5
34.30	35.30	1.00	E899747	<0.001	0.001	<0.005	<0.5
35.30	36.30	1.00	E899751	<0.001	0.002	<0.005	<0.5

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-08 | **HOLE # :** CN14-08

SECTION : | **SECTION :**

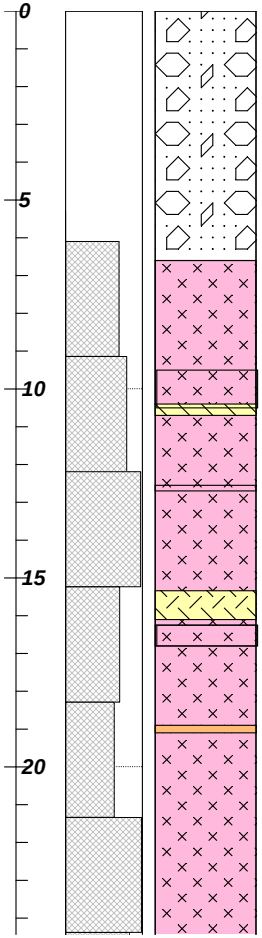
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916526 mE**
Easting : **411095 mE**
Elevation (m) : **861 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **88.39 m**
Azimuth (true) : **22**
Dip : **-70**
Claim :
NTS : 115I/07

Overburden : **6.60 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 7, 2014**
Date Hole Completed : **Sept 8, 2014**



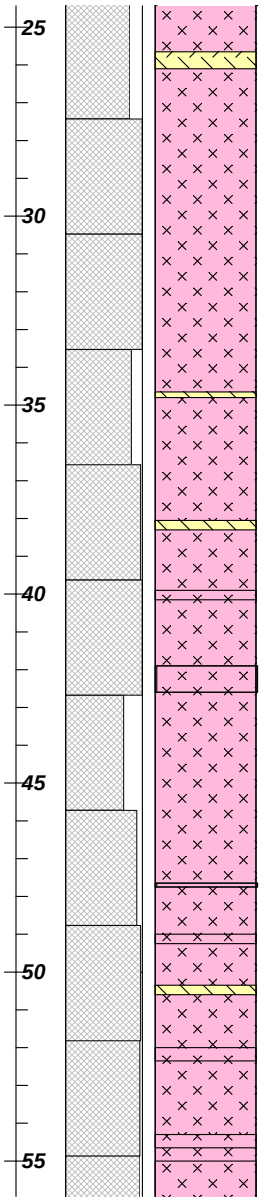
From (m)	To (m)	Unit	DESCRIPTION
0.00	6.60		Overburden: casing poor recovery, some granodiorite
6.60	88.39		Granodiorite: Coarse, biotite-hornblende granodiorite to diorite. Locally porphyritic with plag or more rarely, K-spar, phenocrysts. Contains accessory magnetite (magmatic). Well foliated to massive, with foliation generally 30 to 40 degrees to C A. Cross cut by pink aplite, pegmatite or white/grey tonalite dykes. Locally altered to hematite-carbonate-epidote , either along veins at variable angle to CA or in pervasively hematized intervals. Spotty, minor copper mineralization, as isolated bornite-magnetite-malachite-biotite patches, separated by barren granodiorite between 50 - 58 m
			Mafic rich area within granodiorite (increased biotite-hbl to ~ 60%) with diffuse margins, grading back into regular granodiorite. Mafic rich structure runs parallel to foliation. Perhaps a thick schliere?
			Aplite dyke with pegmatitic margins. Broken core, many fractures
			Coherent rock, cataclasite - brecciated, highly deformed granodiorite in brittle-plastic shear zone, with hematite-chlorite alteration. No gouge, only coherent rock
			Pegmatite dyke, some aplite, broken core.

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

CARMACKS COPPER PROJECT

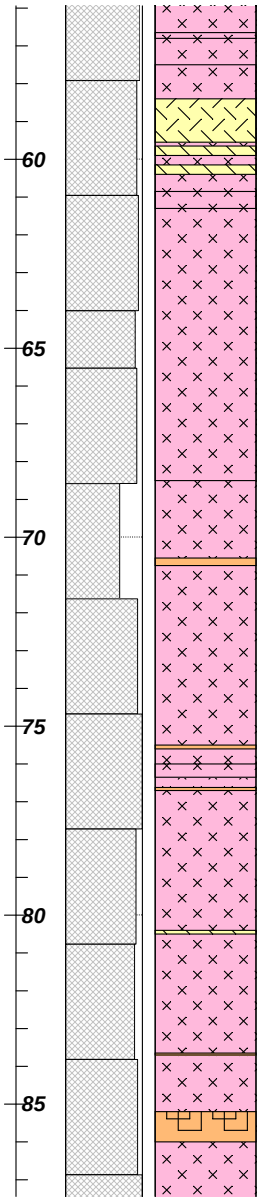
HOLE # : CN14-08



From (m)	To (m)	Unit	DESCRIPTION
			Aplite dyke, fine to medium grained biotite phenocrysts
			Pink aplite dyke, fine grained
			Sheared aplitic fine grained dyke with hematite along fractures, pervasive hematite and some epidote veins
			Light grey, biotite phyric tonalite dyke
			20 cm tonalite dyke and granodiorite cut and brecciated along a bifurcating hematite vein
			Milled and sheared granodiorite along hematite-carbonate vein/fault
			Distinctly more felsic interval of granodiorite
			Aplite=pegmatite dyke
			Biotite phyric tonalite dyke
			Mafic rich area
			Sheared granodiorite, minor displacement along many hematite-filled fractures, pervasive

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
47.80	48.80	1.00	E899753	0.004	0.011	0.005	<0.5
48.80	49.80	1.00	E899754	0.010	0.022	0.006	<0.5
49.80	50.80	1.00	E899755	0.066	0.110	0.021	3.3
50.80	51.80	1.00	E899756	0.072	0.143	0.031	0.8
51.80	52.80	1.00	E899757	0.090	0.145	0.041	3.0
52.80	53.80	1.00	E899758	0.182	0.344	0.065	2.3
53.80	54.80	1.00	E899759	0.011	0.020	<0.005	<0.5
54.80	55.80	1.00	E899760	0.076	0.113	0.021	0.6



From (m)	To (m)	Unit	DESCRIPTION
			hematization and milled fabric
			Grey tonalite dyke, with xenoliths of granodiorite. Hematized
			Mafic rich area
			Pink aplite dyke, fine grained
			Pink aplite dyke, fine grained
			Aplite-pegmatite dyke
			tonalite dyke
			Pegmatite dyke, granitic
			Pegmatite dyke, granitic
			Fine grained, porphyritic granodiorite
			Pegmatite dyke, granitic
			Aplite dyke, bordered by pegmatite
			Pegmatite
			Pegmatite, biotite-granite

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
55.80	56.80	1.00	E899761	0.186	0.271	0.073	3.5
56.80	57.80	1.00	E899762	0.362	0.514	0.088	5.3
57.80	58.80	1.00	E899763	0.021	0.033	0.005	<0.5
58.80	59.80	1.00	E899764	0.001	0.003	<0.005	<0.5

CARMACKS COPPER PROJECT

HOLE # : CN14-08

Depth (m)	R.Q.D. weak	R.Q.D. strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
⊢														

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-09 | **HOLE # :** CN14-09

SECTION : | **SECTION :**

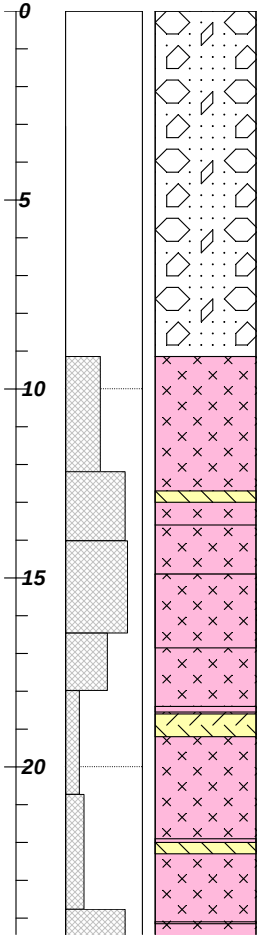
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916493 mN**
Easting : **411193 mE**
Elevation (m) : **878 m**

Grid Name : **Zone 2**
Core Size: **NTW**

Hole Length : **47.24 m**
Azimuth (true) : **22**
Dip : **-45**
Claim : **WAR 25**
NTS : 115I/07

Overburden : **9.14 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 8, 2014**
Date Hole Completed : **Sept 9, 2014**



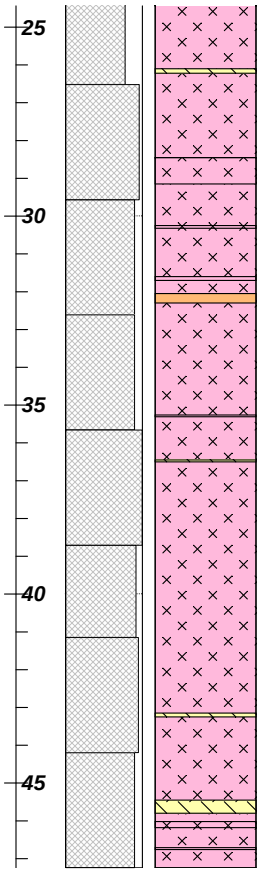
From (m)	To (m)	Unit	DESCRIPTION
0.00	9.14		OVERBURDEN: Overburden, casing, poor recovery, fragments of highly weathered rock and granodiorite
9.14	13.60		GRANODIORITE: Foliated biotite-hornblende granodiorite to diorite, altered with chlorite-epidote-hematite.-carbonate, cut by many minor shears. Non-magnetic (magnetite likely oxidized to hematite). Manganese oxide stain on fractures
			Highly altered, brownish aplite dyke, hematite-carbonate alteration pervasive
13.60	14.90		GRANODIORITE: Highly sheared fault rock, much broken core, gouge at 13.8 to 13.9, much chlorite, epidote and hematite, milled fragments of granodiorite and pegmatite, manganese oxide stain
14.90	47.24		GRANODIORITE: Weakly foliated to well foliated, porphyritic to massive biotite-hornblende granodiorite to diorite. Magmatic accessory magnetite in areas that are not hematized. Some intervals rich in mafics. Much of this interval is affected by many micro-shears and is hematite-epidote-calcite altered, pervasively or in veins. Cut by aplite, tonalite or pegmatite dykes. Copper mineralization occurs as isolated patches within the interval 23.0 to 24.0 m
			Greenish chlorite-albite (scapolite?) vein or alteration feature at approximately 70 degrees to CA

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
21.80	22.80	1.00	E899765	0.017	0.028	0.011	<0.5
22.80	23.80	1.00	E899766	0.378	0.440	0.067	2.4

CARMACKS COPPER PROJECT

HOLE # : CN14-09



From (m)	To (m)	Unit	DESCRIPTION
			Pink aplite dyke
			Fault at 42 degrees to CA, hematite developed on fault plane, vuggy calcite developed above fault plane
			Grey tonalite dyke at 70 degrees to CA
			Grey tonalite dyke at 21 degrees to CA
			Pegmatite dyke
			White tonalite dyke
			Pink aplite dyke
			pink aplite dyke
			Aplite dyke, bordered by pegmatite
			Tonalite dyke, grey

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
23.80	24.80	1.00	E899767	0.093	0.133	0.020	0.5
24.80	25.80	1.00	E899768	0.001	0.004	<0.005	<0.5

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-10 | **HOLE # :** CN14-10

SECTION : | **SECTION :**

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6916493 mN**
Easting : **411193 mE**
Elevation (m) : **878 m**

Grid Name : **Zone 2**
Core Size: **NTW**

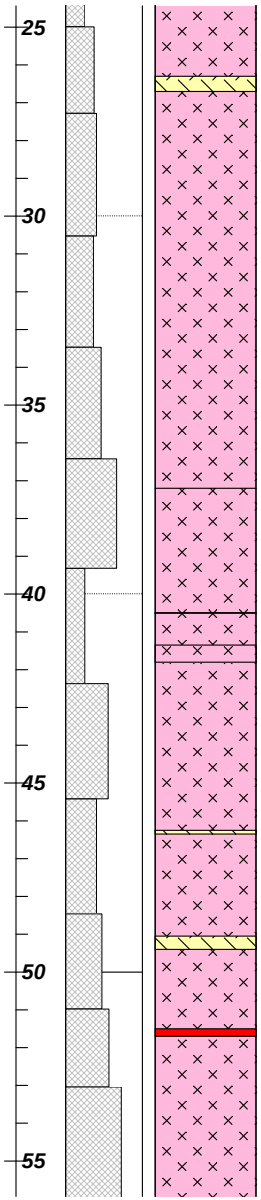
Hole Length : **92.50 m**
Azimuth (true) : **22**
Dip : **-70**
Claim : **WAR 25**
NTS : 115I/07

Overburden : **9.30 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 9, 2014**
Date Hole Completed : **Sept 9, 2014**

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
0		0.00	9.30		OVERBURDEN: Casing, poor recovery, some granodiorite, highly altered, fractured and weathered
10		9.30	37.20		GRANODIORITE: Granodiorite', extremely broken, sheared, faulted and altered rock. Cataclastic in many places. Original fabric of rock is obfuscated. Where protolith is visible, it ranges from massive to porphyritic, well foliated, biotite-hornblende granodiorite to biotite-hornblende diorite, pervasively altered to chlorite-hematite-epidote-calcite with veins of the same assemblage, cross cut by sheared up pegmatite and aplite dykes. Locally wispy albite alteration. Many hematite-carbonate veins at low angle to CA. Much broken core.
20					Highly altered, sheared cataclasite, heavy pervasive hematite stain, protolith is a mix of granodiorite-aplite-pegmatite with intense epidote-chlorite-calcite-hematite alteration

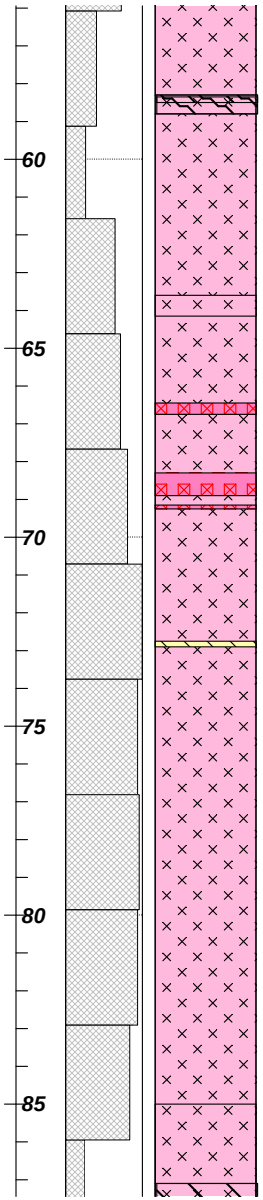
---------- **Sample Data** ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)



From (m)	To (m)	Unit	DESCRIPTION
			Pink aplite dyke
			37.20, 58.30 GRANODIORITE: Foliated biotite-hornblende granodiorite to diorite with moderate chlorite-hematite-calcite-epidote alteration and veining. More competent rock and fewer fractures than 9.3 to 37.2 m. Aplite and pegmatite dykes. Some foliated mafic (bt-hbl) rich intervals with sharp contacts with the granodiorite - perhaps mafic dykes.
			Foliation at 31 degrees to CA
			Mafic rich (>50 % bt-hbl) interval of granodiorite (diorite)
			Pink aplite dyke
			Pink aplite dyke much broken core
			>90% biotite after hornblende, sharp, hematized lower contact at 45 degrees to CA with granodiorite - perhaps a mafic dyke

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
	53.00	54.00	1.00	E899769	0.002	0.007	<0.005	<0.5
	54.00	55.00	1.00	E899770	<0.001	0.001	<0.005	<0.5
	55.00	56.00	1.00	E899771	<0.001	0.001	<0.005	<0.5



From (m)	To (m)	Unit	DESCRIPTION
			58.30, 58.80 GRANODIORITE: Fault gouge, clay and calcite at approx 45 degrees to CA
			58.80, 87.10 GRANODIORITE: Intrusive as 37.2 to 58.3 m but with less alteration. Hematization developed locally. Copper mineralization from 57.1 to 80.9 m occurring as patches or bands separated by barren intervals of granodiorite.
			Granodiorite interval rich in mafics (>50%) (potassic alteration? - biotite)
			Mafic rich interval, perhaps a biotite-altered shear, with fragments or windows of in-tact granodiorite. Aligned to 27 degrees to CA, parallel to foliation
			Mafic rich interval within granodiorite, diffuse margins
			Mafic rich interval, sharp margins, perhaps a mafic dyke with an acicular, whitish mineral, offset by minor shear
			Aplite dyke
			Interval of highly broken core, faulting, sheared up rock and several sections of clay gouge

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
56.00	57.00	1.00	E899772	0.019	0.031	0.006	<0.5
57.00	58.00	1.00	E899773	0.180	0.228	0.104	1.7
58.00	59.00	1.00	E899774	0.572	0.624	0.284	7.0
59.00	60.00	1.00	E899775	0.017	0.034	<0.005	0.7
60.00	61.00	1.00	E899776	0.122	0.162	0.036	1.0
61.00	62.00	1.00	E899777	0.146	0.196	0.022	1.1
62.00	63.00	1.00	E899778	0.332	0.436	0.097	3.3
63.00	64.00	1.00	E899779	0.198	0.270	0.041	1.5
64.00	65.00	1.00	E899780	0.035	0.059	0.009	<0.5
65.00	66.00	1.00	E899781	0.227	0.292	0.042	1.3
66.00	67.00	1.00	E899782	1.590	2.516	0.598	18.9
67.00	68.00	1.00	E899783	0.088	0.122	0.039	<0.5
68.00	69.00	1.00	E899784	0.172	0.223	0.068	1.4
69.00	70.00	1.00	E899785	0.015	0.024	0.005	<0.5
70.00	71.00	1.00	E899786	0.022	0.033	0.007	<0.5
71.00	72.00	1.00	E899787	0.041	0.058	0.008	<0.5
72.00	73.00	1.00	E899788	0.013	0.027	0.005	<0.5
73.00	74.00	1.00	E899789	0.163	0.265	0.229	2.7
74.00	75.00	1.00	E899790	0.059	0.085	0.016	0.5
75.00	76.00	1.00	E899791	0.248	0.483	0.235	5.1
76.00	77.00	1.00	E899792	1.270	1.945	0.449	10.4
77.00	78.00	1.00	E899793	0.136	0.171	0.030	0.7
78.00	79.00	1.00	E899794	0.036	0.060	0.006	<0.5
79.00	80.00	1.00	E899795	0.365	0.439	0.093	2.1
80.00	81.00	1.00	E899796	0.203	0.321	0.057	1.5
81.00	82.00	1.00	E899797	0.010	0.027	<0.005	<0.5
82.00	83.00	1.00	E899801	0.001	0.001	<0.005	<0.5
83.00	84.00	1.00	E899802	<0.001	0.002	<0.005	<0.5
84.00	85.00	1.00	E899803	<0.001	0.002	<0.005	<0.5

Depth (m)	R.Q.D. weak / strong		From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
90			87.10	88.50		GRANODIORITE: Faulted ground, much broken rock								
			88.50	92.50		GRANODIORITE: Granodiorite, well foliated and chlorite-hematite-epidote-calcite altered, cut by aplite dykes.								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-11

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**

Northing : **6912937 mE**

Easting : **412241 mE**

Elevation (m) : **736 m**

Grid Name : **Zone 2000S**

Core Size: **NTW**

Hole Length : **6.90 m**

Azimuth (true) : **247**

Dip : **-50**

Claim : **BOY 24**

NTS : 115I/07

HOLE # : CN14-11

SECTION :

Overburden : **6.90**

Contractor : Kluane Drilling Ltd

Logged By : **Jack Milton**

Date Hole Started : **Sept 9, 2014**

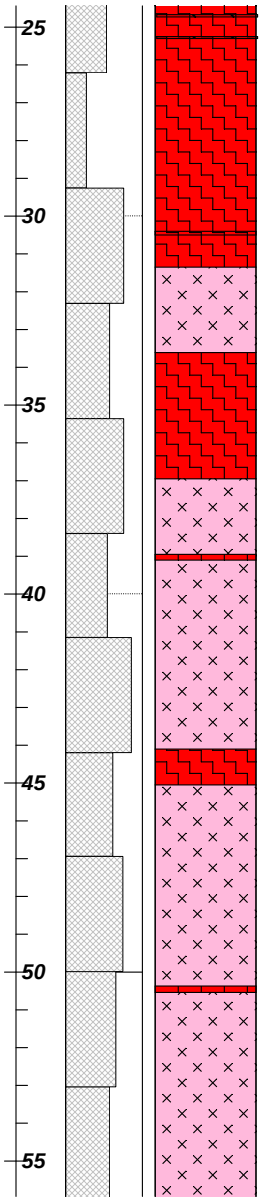
Date Hole Completed : **Sept 9, 2014**

Depth (m) | R.Q.D. weak / strong

From (m)	To (m)	Unit	DESCRIPTION
0.00	6.90		Overburden: Casing, poor recovery, overburden and some weathered, epidotized granite
6.90	21.26		Granodiorite: Moderately well foliated to slightly foliated, biotite-granodiorite with large K-feldspar phenocrysts up to 40 mm. Magmatic, accessory magnetite. Carbonate-hematite veining and hematization of wall rocks, some epidote veining. Many broken, fractured intervals of core. Sharp but slightly irregular bottom contact at 45 degrees to CA.
			irregular calcite vein, cut by planar hematite-calcite vein
			much broken, fractured core, likely faulted, no gouge recovered/visible
			broken core, fracturing much broken core, fracturing, likely faulted
21.26	22.30		Gneiss: Gneiss': dark grey, finely laminated biotite-quartz schist, with schistocity occurring on a mm-scale. Magnetite present. Some mafic rich areas with hornblende or biotite after hbl. Numerous granodiorite foliation-parallel dykes (sills) on cm to 10s of cm scale. With iron oxides and malachite.

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
17.20	18.20	1.00	E899804	0.013	0.023	<0.005	<0.5
18.20	19.20	1.00	E899805	0.029	0.051	<0.005	<0.5
19.20	20.20	1.00	E899806	0.045	0.082	<0.005	2.5
20.20	21.26	1.06	E899807	0.067	0.100	<0.005	0.5
21.26	22.30	1.04	E899808	0.753	0.836	0.545	5.4
22.30	23.15	0.85	E899809	0.078	0.111	0.021	<0.5



From (m)	To (m)	Unit	DESCRIPTION
22.30	23.15		Granodiorite: K feldspar porphyritic granodiorite sill/dyke (foliation-parallel) within an interval of gneiss
23.15	31.35		Gneiss: Gneiss as 21.26 to 22.3
			Altered tonalite dyke? Or more leucocratic gneiss, parallel to foliation
31.35	33.61		Granodiorite: K-feldspar porphyritic granodiorite, well foliated, with hematite-epidote alteration
33.61	36.95		Gneiss: Gneiss as 21.26 to 22.3
36.95	44.10		Granodiorite: Foliated, massive to porphyritic (K-feldpar) fresh-looking granodiorite. Some mafic rich areas
			short interval of dark grey gneiss, fine grained, laminated and schistose, within granodiorite, upper contact at 73 degrees to CA
44.10	45.05		Gneiss: Gneiss as 21.26 to 22.3, top contact 32 degrees to CA, sharp, planar
45.05	73.15		Granodiorite: Fresh, K-feldspar porphyritic biotite-granodiorite with a few hematized intervals. Foliation weakly to moderately developed, generally at approx 40 degrees to CA
			short interval of mafic gneiss within granodiorite

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
~~23.15~~	~~24.80~~	~~1.65~~	~~E899810~~	~~0.942~~	~~1.145~~	~~0.411~~	~~5.9~~
~~24.80~~	~~25.05~~	~~0.25~~	~~E899811~~	~~0.964~~	~~1.160~~	~~0.665~~	~~8.1~~
25.05	26.00	0.95	E899812	0.833	0.942	0.294	3.4
26.00	27.00	1.00	E899813	0.834	0.913	0.320	3.0
27.00	28.00	1.00	E899814	0.573	0.642	0.238	1.8
28.00	29.00	1.00	E899815	0.510	0.571	0.143	1.9
29.00	30.00	1.00	E899816	0.698	0.750	0.157	2.6
30.00	31.00	1.00	E899817	0.381	0.430	0.124	2.0
~~31.00~~	~~31.35~~	~~0.35~~	~~E899818~~	~~0.394~~	~~0.450~~	~~0.110~~	~~1.4~~
31.35	32.35	1.00	E899819	0.113	0.141	0.027	<0.5
32.35	33.61	1.26	E899820	0.004	0.009	<0.005	<0.5
33.61	34.75	1.14	E899821	0.379	0.495	0.120	1.7
34.75	35.85	1.10	E899822	0.920	1.195	0.301	7.2
35.85	36.95	1.10	E899823	0.798	0.903	0.204	2.6
36.95	37.90	0.95	E899824	0.072	0.105	0.028	0.7
37.90	38.90	1.00	E899825	0.009	0.017	<0.005	<0.5
38.90	40.00	1.10	E899826	0.129	0.173	0.057	0.8
40.00	41.00	1.00	E899827	0.004	0.008	<0.005	<0.5
41.00	42.00	1.00	E899828	0.001	0.001	<0.005	<0.5
42.00	43.00	1.00	E899829	0.002	0.005	<0.005	<0.5
43.00	44.10	1.10	E899830	0.001	0.002	<0.005	<0.5
44.10	45.05	0.95	E899831	0.376	0.474	0.202	2.5
45.05	46.00	0.95	E899832	0.004	0.007	<0.005	<0.5
46.00	47.00	1.00	E899833	<0.001	<0.001	<0.005	<0.5
47.00	48.00	1.00	E899834	0.001	0.002	<0.005	<0.5
48.00	49.00	1.00	E899835	<0.001	0.001	<0.005	<0.5
49.00	50.00	1.00	E899836	<0.001	0.001	<0.005	<0.5

CARMACKS COPPER PROJECT

HOLE # : CN14-11

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data: From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
60					short interval of gneiss, highly oxidized and soft - possibly faulted								
65													
70					mafic rich, fine grained granodiorite with diffuse contact with leucocratic granodiorite								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-12

SECTION :

HOLE # : CN14-12

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6912984 mN**
Easting : **412219 mE**
Elevation (m) : **757 m**

Grid Name : **Zone 2000S**
Core Size: **NTW**

Hole Length : **93.57 m**
Azimuth (true) : **247**
Dip : **-45**
Claim : **BOY 24**
NTS : 115I/07

Overburden : **9.45 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 10, 2014**
Date Hole Completed : **Sept 11, 2014**

Depth (m) | R.Q.D. weak / strong

From (m)	To (m)	Unit	DESCRIPTION
0.00	9.45		OVERBURDEN
9.45	78.33		GRANODIORITE: K-feldspar phyric, biotite-hornblende granodiorite with much accessory magnetite. K-feldspar phenocrysts can reach 60 mm in long dimension and contain solid inclusions of biotite and plagioclase, aligned along crystal growth surfaces. Slightly foliated to moderately well foliated throughout. Porphyritic throughout. Mostly fresh, unaltered granodiorite or with some minor chlorite after biotite. A few minor pegmatite dykes and a few more leucocratic, biotite-granite phases. A few sections of pervasively hematized rock and a few minor faults with gouge developed. Minor hematite-carbonate veining. No copper mineralization observed.
12.00	13.00		Leucocratic granite with large biotite crystals. Pegmatitic towards centre. Likely a small dyke
13.00	13.50		Minor fault with clay gouge developed. Oxidized and hematized.
15.00	18.00		Small granite pegmatite dyke
20.00	21.00		granite pegmatite dyke

Sample Data

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

CARMACKS COPPER PROJECT

HOLE # : CN14-12

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data: From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
25					clay gouge and broken core developed around minor fault								
30													
35													
40													
45					Leucocratic coarse granite dyke at low angle to CA								
50													
55					Fault gouge and broken fractured core along minor fault								

CARMACKS COPPER PROJECT

HOLE # : CN14-12

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
					Hematite rich clay fault gougue and broken core around minor fault
60					
65					Hematized clay fault gouge developed along minor fault
					Coarse leucocratic granite intrusion with pegmatitic margins at 39 degrees to CA
70					
					Coarse leucocratic granite intrusion with diffue margins that grade back in to granodiorite. At 71.25 is a biotite rich 0.5 cm band that may be a schliere?
75					
					78.33, 78.93 GNEISS: A poorly schistose fine grained qtz-plag-biotite rock with a bottom contact of 63 degrees to CA.
80					
					78.93, 91.20 GRANODIORITE: K-feldspar porphyritic granodiorite as 9.45 to 78.33
85					

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
90					91.20, 91.35 GNEISS: as 78.33 to 78.93 m 91.35, 93.57 GRANODIORITE: K-feldspar porphyritic granodiorite as 9.45 to 78.33								

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-13 | **HOLE # :** CN14-13

SECTION : | **SECTION :**

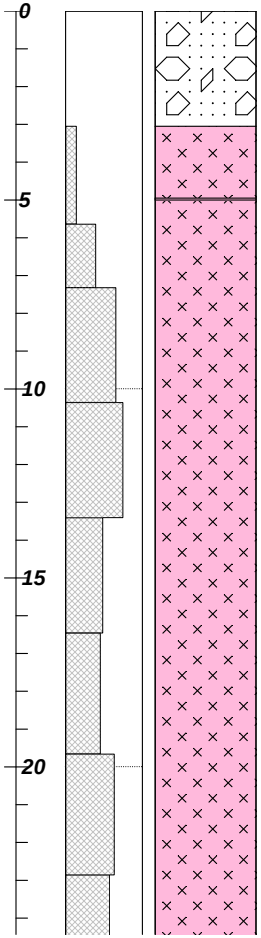
UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6913129 mN**
Easting : **412503 mE**
Elevation (m) : **734 m**

Grid Name : **Zone 2000S**
Core Size: **NTW**

Hole Length : **128.02 m**
Azimuth (true) : **247**
Dip : **-45**
Claim : **BOY 22**
NTS : 115I/07

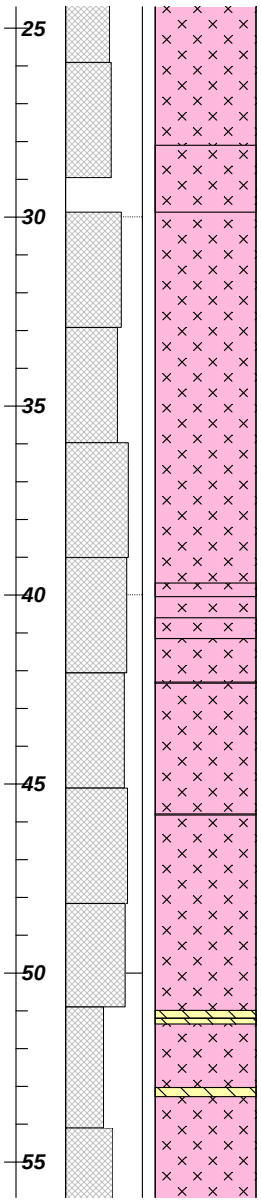
Overburden : **3.05 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 11, 2014**
Date Hole Completed : **Sept 13, 2014**



From (m)	To (m)	Unit	DESCRIPTION
0.00	3.05		Overburden: Casing, no recovery
3.05	128.02		Granodiorite: K feldspar porphyritic biotite-hornblende granodiorite to biotite-granite. Feldspar phenocrysts can reach 50 mm in long dimension. Accessory magmatic magnetite. Weakly to moderately well foliated. Foliation is typically at 35 to 45 degrees to CA. A few mafic xenoliths or autoliths. Very little alteration - most of the hole is very fresh granodiorite. Minor amounts of hematitization occur locally. Cut by uncommon aplite, pegmatite and tonalite dykes.

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

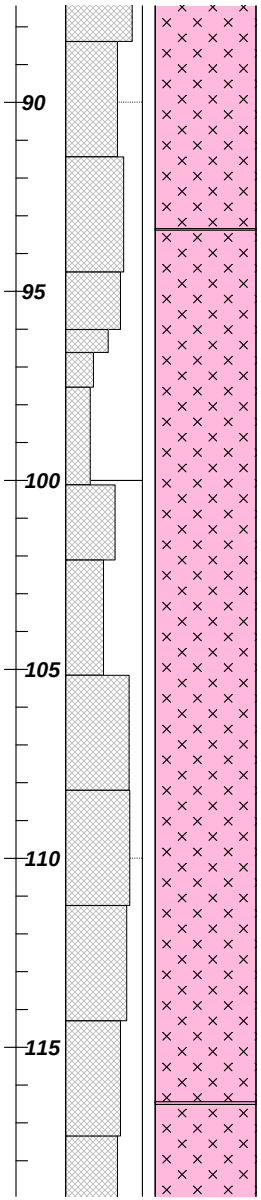


From (m)	To (m)	Unit	DESCRIPTION
			Much broken fractured core, fault gouge at 29.0 m
			Finer grained, medium grey granodiorite, aphyric
			Finer grained, medium grey granodiorite, aphyric
			Mafic rich (biotite), foliated interval, occurs parallel to the foliation.
			Thin pegmatite dyke
			Aplite dyke
			Aplite-pegmatite interval of dyking

Sample Data								
From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
					Pink aplite dyke
60					Aplite dyke
					Biotite-monzonite dyke
65					
70					Coarse to very coarse interval of granite
75					
80					
85					

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)



From (m)	To (m)	Unit	DESCRIPTION
			thin pegmatite dyke
			Hematization developed in the wall rocks of a 4 mm wide hematite fault gouge and breccia

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

CARMACKS COPPER PROJECT

HOLE # : CN14-13

Depth (m)	R.Q.D. weak	R.Q.D. strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
120														
125														

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-14

SECTION :

HOLE # : CN14-14

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**
Northing : **6913064 mN**
Easting : **412390 mE**
Elevation (m) : **747 m**

Grid Name : **Zone 2000S**
Core Size: **NTW**

Hole Length : **83.82 m**
Azimuth (true) : **247**
Dip : **-45**
Claim : **BOY 22**
NTS : 115I/07

Overburden : **2.75 m**
Contractor : Kluane Drilling Ltd
Logged By : **Jack Milton**
Date Hole Started : **Sept 13, 2014**
Date Hole Completed : **Sept 14, 2013**

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data: From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
0		0.00	2.75		Overburden: No recovery, casing								
5		2.75	83.82		Granodiorite: K-feldspar porphyritic biotite-hornblende granodiorite, relatively fresh throughout hole. K spar phenocrysts reach up to 50 mm and have inclusions of plag-biotite aligned along growth zones. Magmatic accessory magnetite throughout. Weakly to moderately well foliated. Some areas rich in phenocrysts. Some areas mafic (hbl-bt) rich. No dykes. Very localized hematite-epidote alteration. No copper mineralization. Much broken fractured core, fault gouge at 7.1 m								
10					Broken core, some hematite-epidote alteration associated with a fault and breccia-gouge at 10.15 m, oriented 22 degrees to CA								
15					Mafic rich, well foliated interval, sharp upper and lower contacts, parallel to foliation. Plag-biotite-qtz schist? Metagranodiorite?								
20													

CARMACKS COPPER PROJECT

HOLE # : CN14-14

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION
25					
					Minor fault gouge and hematized wall rock
					Thin, biotite-phyric tonalite dyke, light grey
30					
35					
40					
45					
50					
55					

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

CARMACKS COPPER PROJECT

HOLE # : CN14-14

Depth (m)	R.Q.D. weak / strong	From (m)	To (m)	Unit	DESCRIPTION	Sample Data: From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
60					Biotite-hornblende rich area within granodiorite. Patchy, with diffuse contacts with the granodiorite that are parallel to the foliation at 26 degrees to CA								
65													
70					thin, (1 cm) pegmatite dykelet								
75					rock composed of 100% K-spar+biotite+hbl ('syenite'), comprising an accumulation of K-feldpar phenocrysts with interstitial mafics. Upper contact sharp at 17 degrees to CA, lower contact diffuse at 17 degrees to CA. thin, bifurcating bands of biotite-hornblende interfingered with granodiorite								
80													

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT

HOLE # : CN14-15

SECTION :

UTM Coordinates NAD 83, Zone 8

Collar Survey Type: **GPS**

Northing : **6913322 mN**

Easting : **412078 mE**

Elevation (m) : **834 m**

Grid Name : **Zone 7**

Core Size: **NTW**

Hole Length : **88.39 m**

Azimuth (true) : **247**

Dip : **-45**

Claim : **BOY 58**

NTS : 115I/07

HOLE # : CN14-15

SECTION :

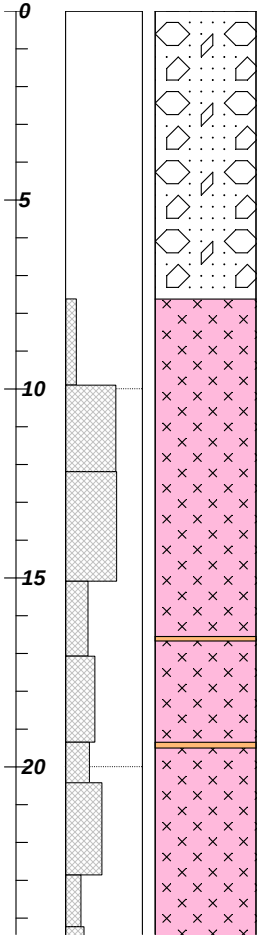
Overburden : **7.62 m**

Contractor : Kluane Drilling Ltd

Logged By : **Jack Milton**

Date Hole Started : **Sept. 14, 2014**

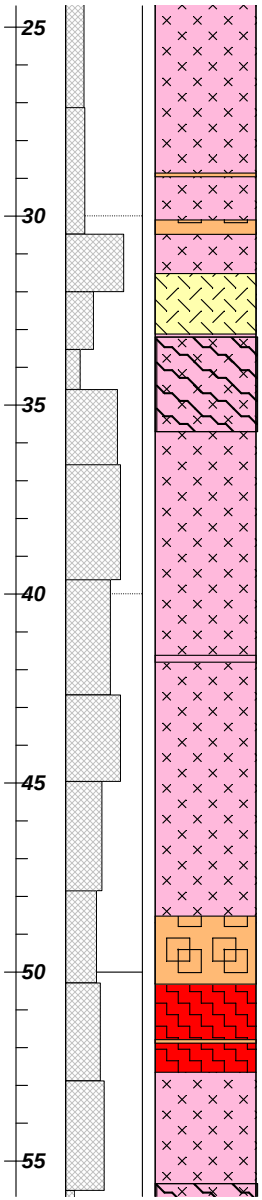
Date Hole Completed : **Sept. 15, 2014**



From (m)	To (m)	Unit	DESCRIPTION
0.00	7.62		OVERBURDEN: Casing, no recovery
7.62	48.70		GRANODIORITE: K-feldspar phyric to massive, hbl-bt granodiorite to hbl-bt diorite with disseminated magmatic magnetite. Weakly to moderately well foliated, with foliation generally at approx 36 degrees to CA. Cut by pegmatite, aplite and medium grained granodiorite dykes. No copper mineralization. Areas of weak to moderate hematite-carbonate veining and pervasive alteration, particularly near faults.
			Biotite-granite pegmatite dyke
			Biotite-granite pegmatite dyke

---------- **Sample Data** ----------

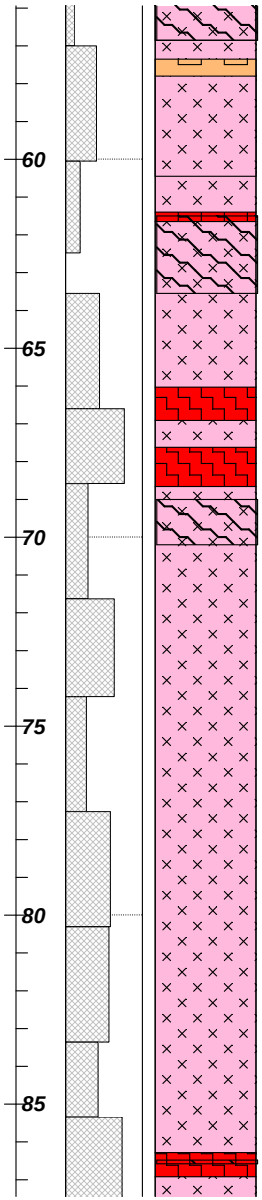
From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)



From (m)	To (m)	Unit	DESCRIPTION
			Biotite-granite pegmatite dyke
			Biotite-granite pegmatite dyke, note core loss here
			Interval of altered aplite dykes, intruded just above fault zone.
			Much broken core, fractures and gouge development. Cataclasite at 35.3-35.5 m. Fault zone oriented at 36 degrees, parallel to the foliation in the granodiorite
			Medium grained granodiorite dyke within coarse granodiorite
			48.70, 50.30 PEGMATITE: Granite pegmatite dyke
			50.30, 52.65 GNEISS: Mafic, fine grained dark grey rock with aligned coarse (4-5 mm) acicular grains of hornblende (phenocrysts or porphyroblasts?). Possibly a mafic dyke or metavolcanic. Much broken core, some clay gouge-like material, contacts obscured by core breaks
			52.65, 61.40 GRANODIORITE: as 7.62 to 48.7

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
52.25	52.65	0.40	E899837	<0.001	0.002	<0.005	<0.5



From (m)	To (m)	Unit	DESCRIPTION
			Granodiorite and some pegmatite, sheared up, altered and gouges developed at 55.78, 55.86 and 56.78 m
			Biotite-granite pegmatite dyke, note core loss here
			Well foliated granodiorite, enriched in biotite relative to less well foliated granodiorite. Contact with granodiorite gradual. Foliation at 58 degrees to CA
			61.40, 61.65 GNEISS: Fine grained black to dark grey, foliated rock with an interval of chlorite-carbonate altered intrusive. Bottom contact ends in fault gouge at ~60 degrees to CA
			61.65, 66.03 GRANODIORITE: as 7.62 to 48.7
			66.03, 66.91 GNEISS: Mafic schistose rock with hornblende porphyroblasts (phenocrysts?) with bottom contact at 31 degrees to CA. Possibly metavolcanic.
			66.91, 67.62 GRANODIORITE: as 7.62 to 48.7
			67.62, 68.66 GNEISS: Mafic to intermediate dark grey rock, weakly schistose with hbl porphyroblasts (phenocrysts?). Potentially metavolcanic.
			68.66, 86.28 GRANODIORITE: Much broken, fractured core, possible faulting
			86.28, 86.92 GNEISS: Dark band of biotite rich mafic schist

---------- Sample Data ----------

From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)
59.75	60.75	1.00	E899838	0.022	0.035	0.008	<0.5
61.40	62.40	1.00	E899839	<0.001	0.003	<0.005	<0.5
66.03	66.91	0.88	E899840	0.003	0.010	0.008	<0.5
67.62	68.66	1.04	E899841	<0.001	0.002	<0.005	<0.5

Depth (m)	R.Q.D. weak	R.Q.D. strong	From (m)	To (m)	Unit	DESCRIPTION
				86.92		
			86.92	88.39		GRANODIORITE

Sample Data	From (m)	To (m)	Wdth (m)	Sample	Copper % Non sulphide	Copper % Total	Au (g/t)	Ag (g/t)

Appendix V

Aurora Geosciences Ltd – IP Geophysical Survey Field Report

AURORA GEOSCIENCES

NORTHERN GEOLOGICAL & GEOPHYSICAL CONSULTANTS

YELLOWKNIFE - WHITEHORSE - JUNEAU

34A Laberge rd. Whitehorse, YT, Y1A 5Y9 (p) 867.668.7672

MEMORANDUM

To: Scott Casselman
Copper North Mining Corp.

Date: October 02, 2014

From: Andre Lebel

Re: Copper North, Carmacks Copper IP 2014 survey field report

This memorandum describes a 2D induced polarization (IP) field survey conducted on Copper North Mining Corporation Carmacks Copper property. On September 8th, 2014 the four person crew drove in to the Williams Creek camp operated by Copper North. All surveys were conducted based out of the Williams Creek camp. The crew and all the equipment was demobilized on September 13, 2014. The survey comprised 4.5 line km of 2D IP surveys. Raw data is included with this report as well as processed data in both ASCII and Geosoft .gdb format. A crew log describing daily operations and production is included with this report.

a. Crew and Equipment

The following personnel conducted the survey:

Andre Lebel	Crew Chief	September 8th, 2014 – September 13th, 2014
Sylvie Gewehr	Field hand	September 8th, 2014 – September 13th, 2014
Laurence Gagnon	Field hand	September 8th, 2014 – September 13th, 2014
Dimitri Spassov	Field hand	September 8th, 2014 – September 13th, 2014

The crew was equipped with the following instruments and equipment:

IP receivers:	2 – ELREC PRO s/n 2315-2023534051-122 and 2345-2758300063-166
IP transmitters:	1 – GDD 3600 w TXII transmitters s/n 267
Other:	5 - Garmin 76cx/78/60/60 csx non-differential GPS receivers 1 - Honda 5 Kw generator

1 - Laptop computer with Prosys II and Geosoft Oasis Montaj
1 – Satellite Phone
1 – 4X4 Truck

b. Survey Location

Copper North's Carmacks Copper property is located approximately 47 km northwest of Carmacks, YT and the grid was accessed daily by truck from the Williams Creek camp at 412000E, 6912750N (NAD83, UTM Zone 8 coordinates). The work described in this report is located within NTS map sheet 115 I/07.

c. Survey Specifications

IP surveys

The modified pole-dipole IP surveys were conducted according to the following specifications:

Array	2D IP Array, modified pole -dipole. 10 receiver channels read with the current injection 25m from the first channel
Dipole Spacing	25 m on all lines, N = 1 – 10.
Line Spacing	75m, or as specified on the grid map.
TX	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Stacks	Minimum 15.
RX error	Standard deviation of 5 mV/V or less, otherwise repeated several times until repeatability assured.
Grid registration	Points were taken at a minimum 250m along the cut lines using a handheld GPS. NAD83, UTM Zone 8N coordinates were used.

d. Data Processing

Data were downloaded nightly from the receiver and imported into the Geosoft Oasis Montaj IP package. Every reading was inspected and readings which did not repeat were rejected from the database. Apparent resistivity was recalculated using a four electrode equation assuming a homogeneous earth. The final apparent chargeability, apparent resistivity and apparent chargeability error were averaged from the repeats.

The ground provided clear and consistent readings. In general the signal was good and data quality was high. On Sept 12th there was a magnetoteluric storm that caused poor data quality and a sizeable

portion of L 14-1 was redone to ensure high data quality. Only the high quality re-collected data is included with this report.

e. UBC 2D-DCIP inversions

2D inversions were performed on every line using DCIP2D; a Program Library for Forward Modeling and Inversion of DC Resistivity and Induced polarization Data over 2D Structures developed at the University of British Columbia – Geophysical Inversion Facility. The software inverts the data on a line by line basis and produces 2D models of true resistivity and chargeability in section view.

The final voltages, currents, and chargeabilities exported from the final databases were used in the UBC DCIP2D inversion. 5% +0.01 V/A errors were assigned to the potential data since the measured resistivity errors are not recorded. The DC inversion was performed first using a chi-fact, a variable that controls the extent that the modelled data matches the observed data, to produce a model that acceptably fits the data. The IP inversion was performed next using the resistivity model as an input file, as well using a chi-fact, producing a good model that fits the data. The chi-fact values used for all the inversions are described in Table3, a chi-fact of 1 is the theoretical value for data with perfectly estimated Gaussian errors. A second set of models were created to investigate the survey's depth of investigation as well as test the model's robustness. These models used the same input data and inversion parameters but varied the initial and reference models with values of 50000 ohm*m for DC inversions and 100 mV/V for the IP inversions. Then the depth of investigation (D.O.I) was applied to the model, which is the ratio of the difference of the model and the second model and itself, and all the data values above the indicated D.O.I value were dummied out. Composite sections of the final data models and the predicted data were created to display the models alongside the final pseudosections.

Line	topo high	start point	End point	Mesh fine cell size	DC Colour	IP Colour
1000S	804.595	-200	525	6.25	Resis,Log-Lin, 500-7500	Colour, Lin, 2.5-6.5
1200S	769.922	-200	525	6.25	Resis,Log-Lin, 250-7000	Colour, Lin, 1-8
1600S	732.695	-200	475	6.25	ResisLog-Lin, 250-7000	Colour, Lin, 1.5-8
L14-1	830.048	-50	525	6.25	Resis,Log-Lin, 500-7000	Colour, Lin, 1.5-6.5
L14-2	872.528	-50	525	6.25	Resis,Log-Lin, 500-2500	Colour, Lin, 3.5-6.5
L14-3	860.965	-50	1625	6.25	Resis,Log-Lin, 500-7000	Colour, Lin, 3-7

DC inversions:

Line	Chi-fact	alphas	Mesh used	Topo used	Errors	D.O.I
1000S	0.5	1e-005,0.3,1	Deep.msh	L-1000_topo.dat	5% +0.01	1.5
1200S	1	1e-005,0.3,1	Deep.msh	L-1200_topo.dat	5% +0.01	1
1600S	1	1e-005,0.1,1	Deep.msh	L-1600_topo.dat	5% +0.01	1
L14-1	2	1e-005,0.3,1	dcinv2d_deep.msh	L141_topo.dat	5% +0.01	0.3
L14-2	1	1e-005,0.3,1	dcinv2ddeep.msh	L142_topo.dat	5% +0.01	0.8
L14-3	1.5	Default	Deep.msh	L143_topo.dat	5% +0.01	1.5

IP Inversions:

Line	Chi-fact	alphas	Mesh used	Topo used	D.O.I
1000S	6	Default	Deep.msh	L-1000_topo.dat	-
1200S	3	1e-005,0.2,1	Deep.msh	L-1200_topo.dat	-
1600S	3	1e-005,0.1,1	Deep.msh	L-1600_topo.dat	1.5
L14-1	0.5	1e-005,0.3,1	dcinv2d_deep.msh	L141_topo.dat	1.5
L14-2	0.5	1e-005,0.3,1	dcinv2ddeep.msh	L142_topo.dat	1.5
L14-3	1	Default	Deep.msh	L143_topo.dat	1.5

f. Products

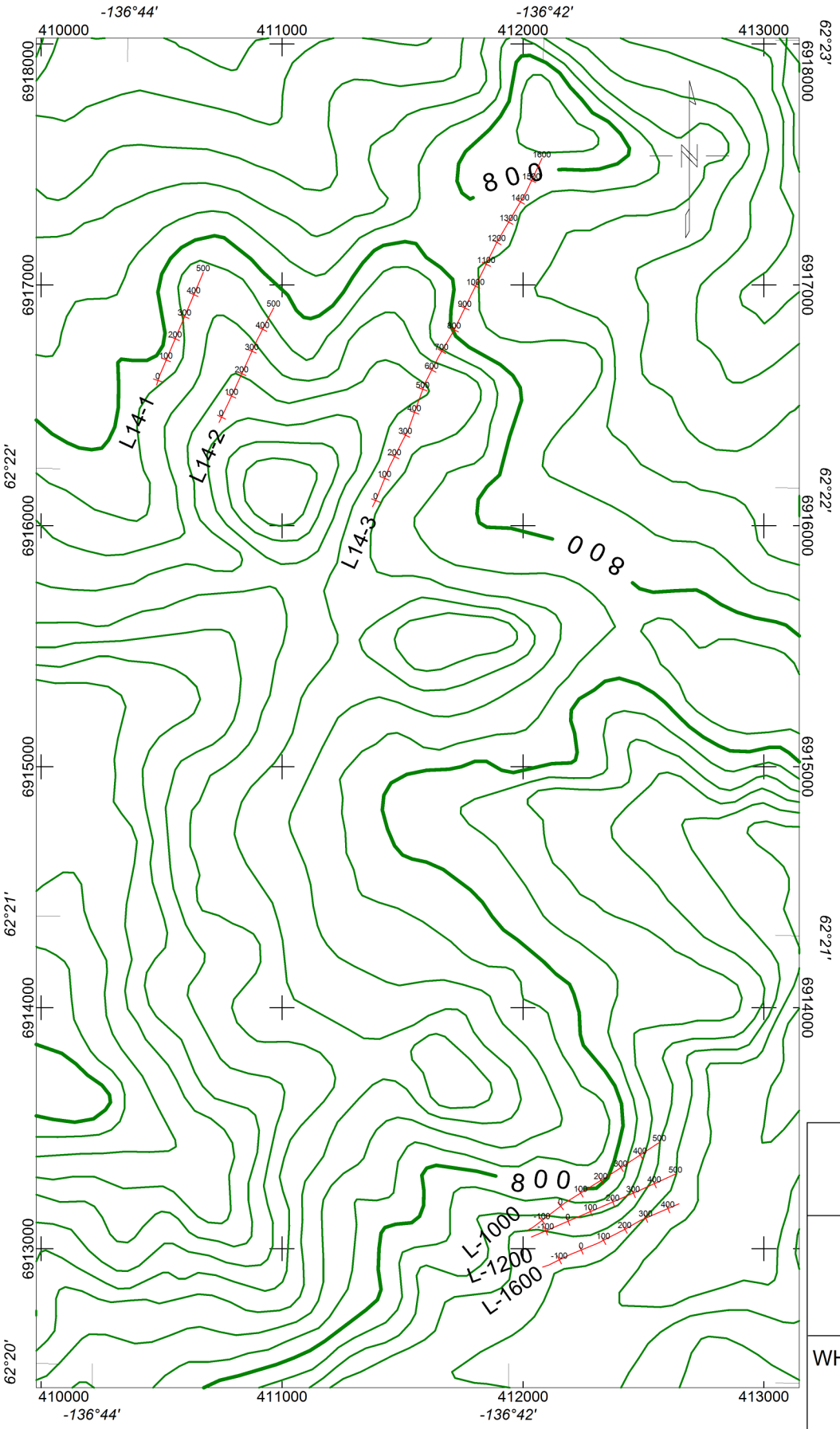
The following files are included in the digital version of this report:

File / Folder name	**Description of contents**
\RAW\IP\	Raw data recorded by the IP and GPS receiver, sorted by date (MMDD).
\Final Data\IP\	Processed and geo-referenced IP data in Geosoft database format and ASCII format.
\Maps\IP\	Composite sections of the final IP data and a grid map.
\2D-DCIPINV\	Images of the UBC 2D-DCIP inversions with and without conversion curves in .jpg format.
\Crew log\	Production summary, daily log and personnel tracking sheet in PDF format.

Respectfully submitted,

Andre Lebel

BSc, G.I.T.
Aurora Geosciences Ltd



250 0 250 500 750

(meters)

NAD83 / UTM zone 8N

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT GRID MAP
Induced Polarization Survey

WHITEHORSE MINING DISTRICT, YUKON, CANADA

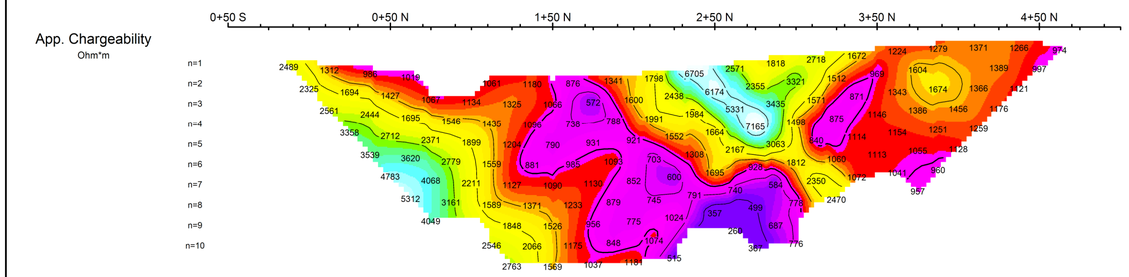
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DATE SURVEYED: SEPT 2014

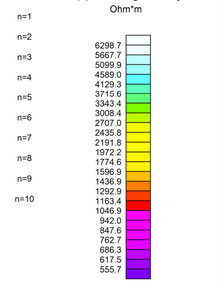
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DATE DRAWN:29/09/2014

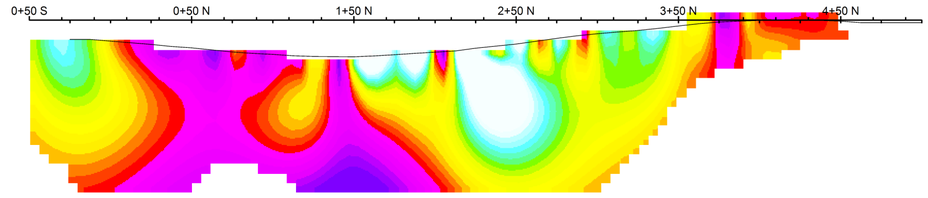
AURORA GEOSCIENCES LTD.



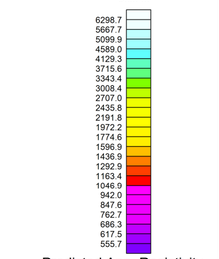
App. Chargeability
Ohm*m



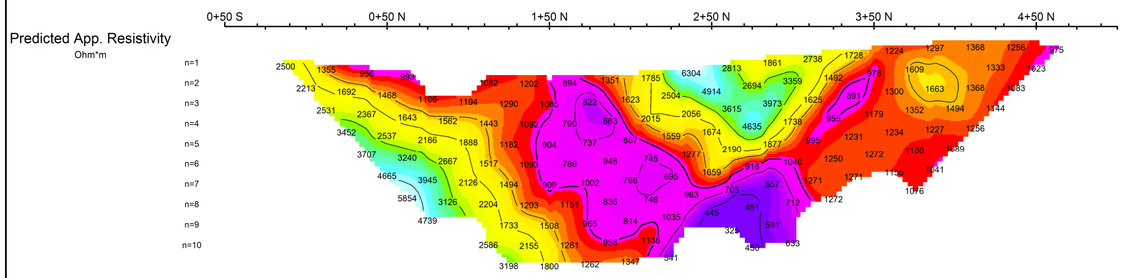
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Ohm*m



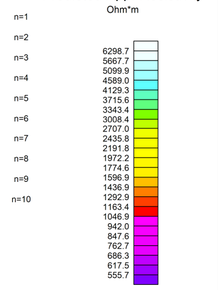
App. Resistivity Model
Ohm*m



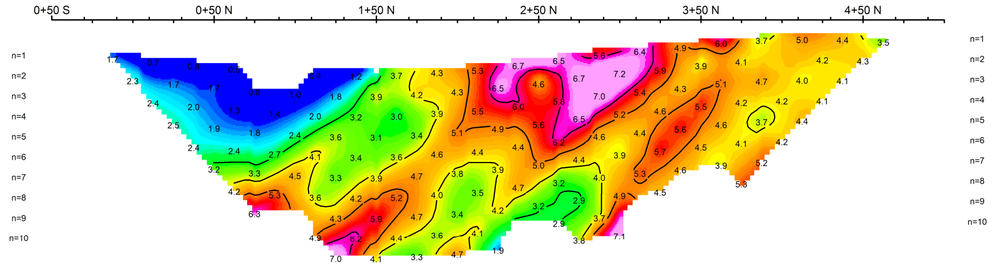
Predicted App. Resistivity
Ohm*m



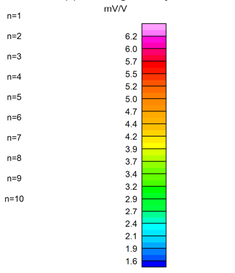
Predicted App. Resistivity
Ohm*m



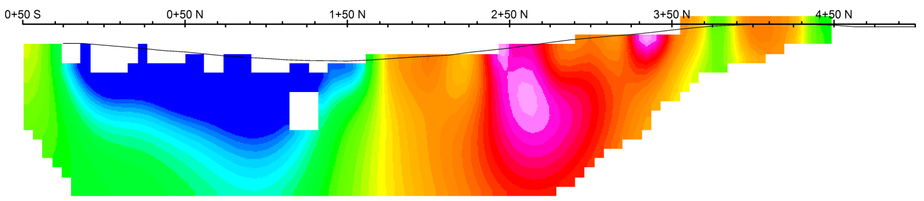
App. Chargeability
mV/V



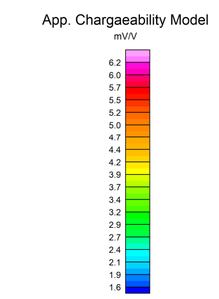
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mV/V



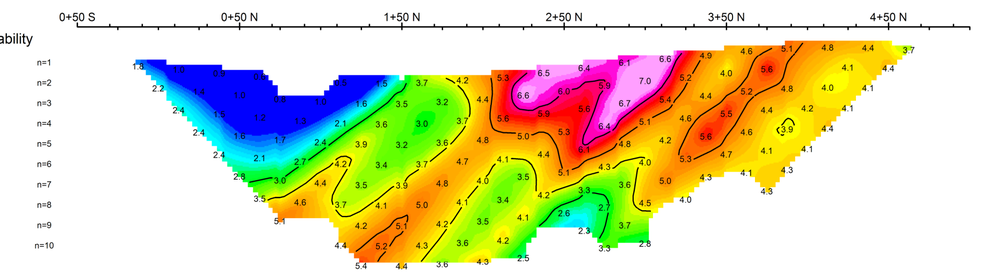
App. Chargeaeability Model
mV/V



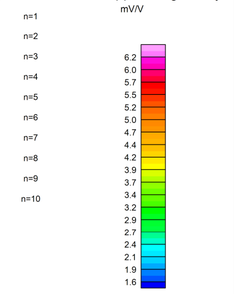
App. Chargeaeability Model
mV/V



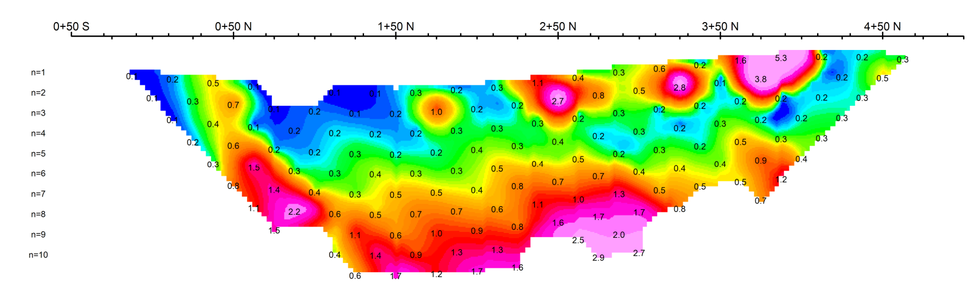
Predicted App. Chargeability
mV/V



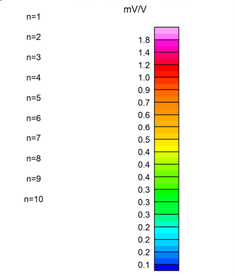
Predicted App. Chargeability
mV/V



Standard Deviation
mV/V

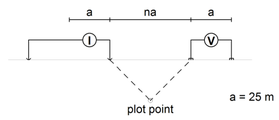


Standard Deviation
mV/V

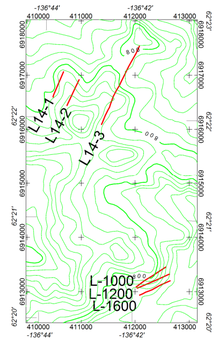


COMPOSITE SECTION PLOTS
14-1

Modified Pole-Dipole Array



Stationary electrode at 50 S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8- 13, 2014



1000 0 1000 2000
(meters)
NAD83 / UTM zone 8N

Scale 1:2500
25 0 25 50 75 100 125 150
(meters)

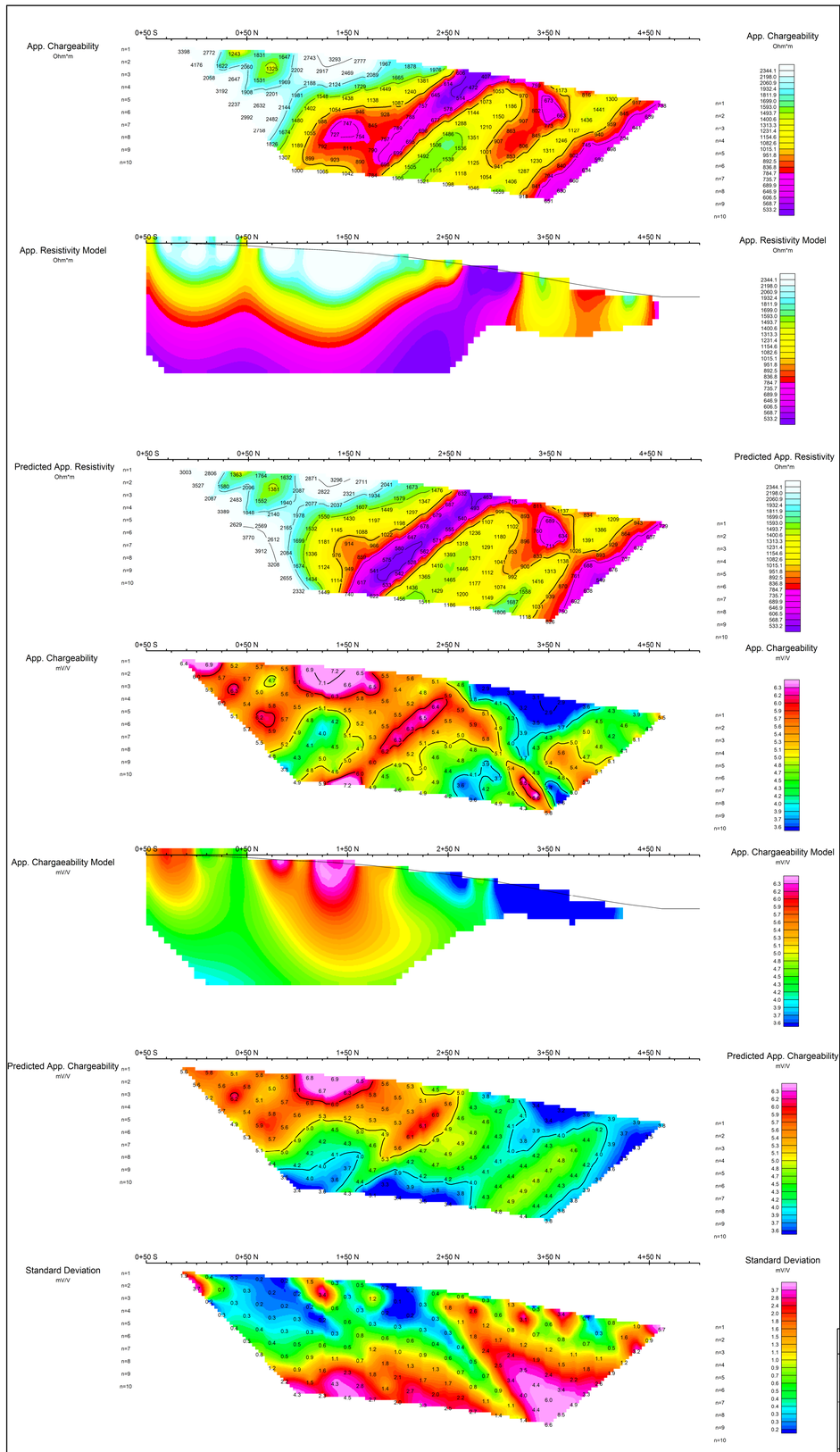
COPPER NORTH CORP.

CARMACKS COPPEFR PROJECT ZONE 2

L14-1 COMPOSITE SECTION PLOTS

WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS: 115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 18/09/2014

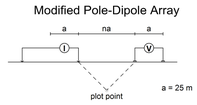
AURORA GEOSCIENCES LTD.



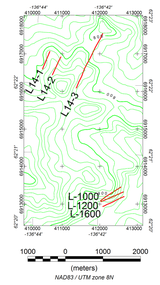
COMPOSITE SECTION PLOTS

14-2

Modified Pole-Dipole Array



Stationary electrode at 50 S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8-13, 2014



Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

COPPER NORTH CORP.

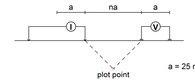
CARMACKS COPPEFR PROJECT ZONE 2

L14-2 COMPOSITE SECTION PLOTS

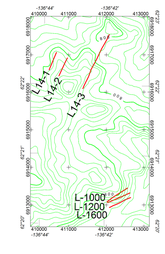
WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS:115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 18/09/2014

AURORA GEOSCIENCES LTD.

COMPOSITE SECTION PLOTS
14-3
Modified Pole-Dipole Array

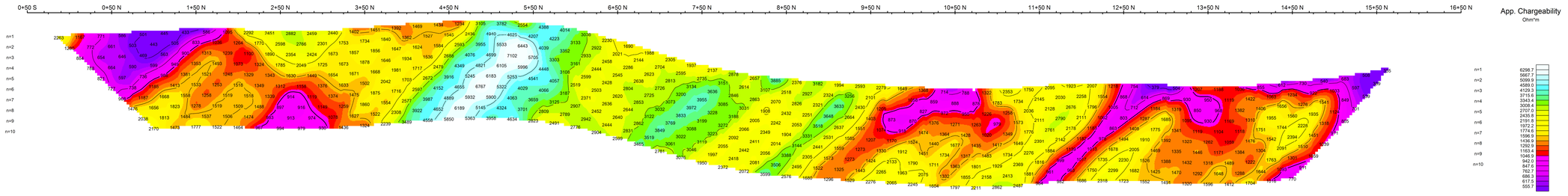


Stationary electrode at 50 S (moving N).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8- 13, 2014



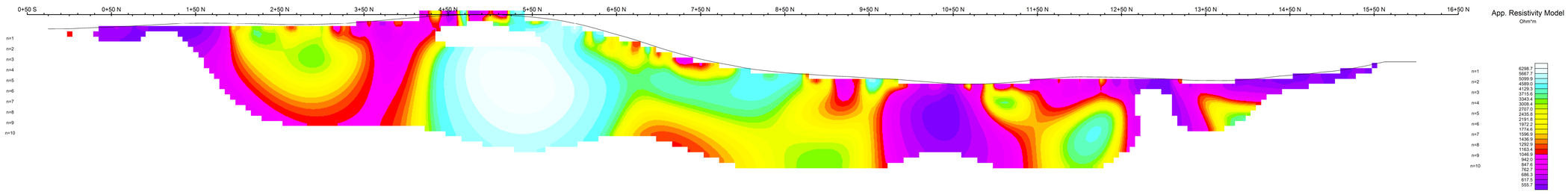
1000 0 1000 2000
(meters)
NAD83 / UTM zone 8N

App. Chargeability
Ohm*m



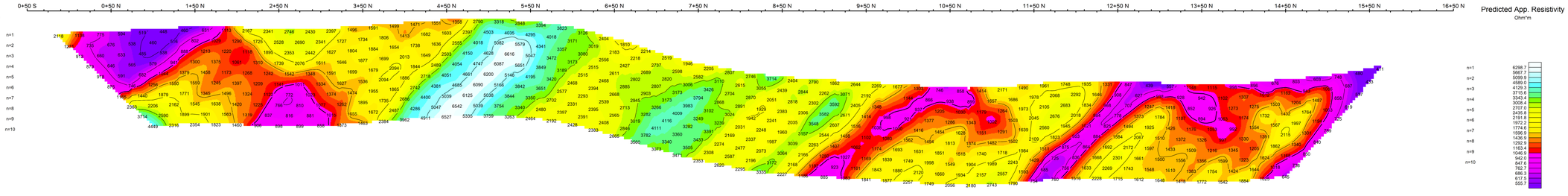
App. Chargeability
Ohm*m

App. Resistivity Model
Ohm*m



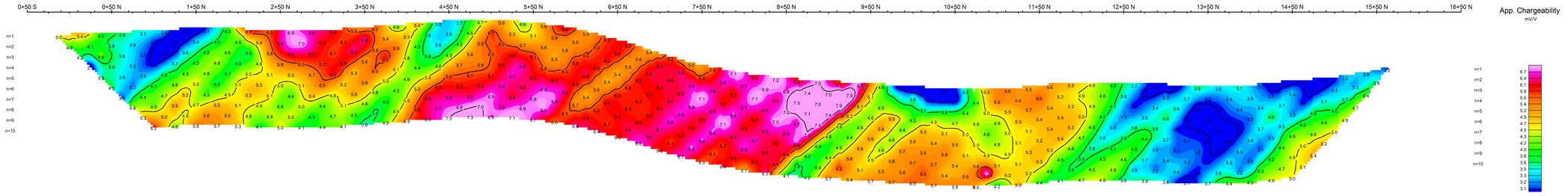
App. Resistivity Model
Ohm*m

Predicted App. Resistivity
Ohm*m



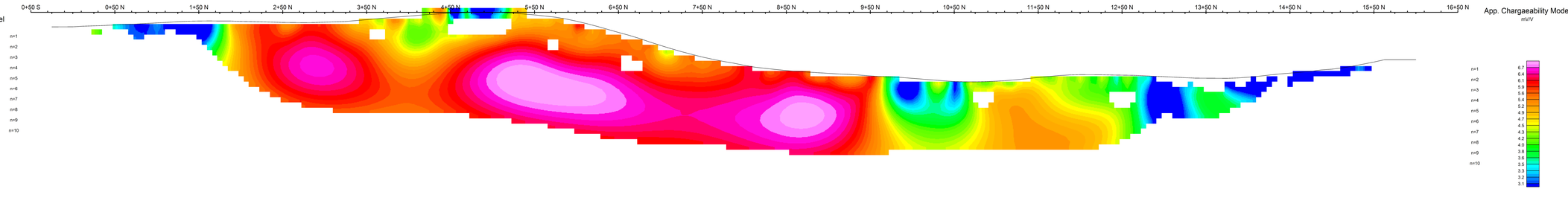
Predicted App. Resistivity
Ohm*m

App. Chargeability
mV/V



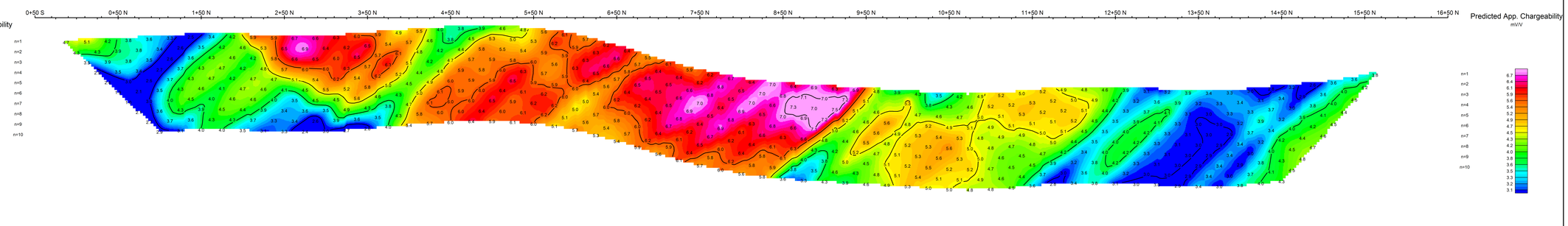
App. Chargeability
mV/V

App. Chargeaeability Model
mV/V



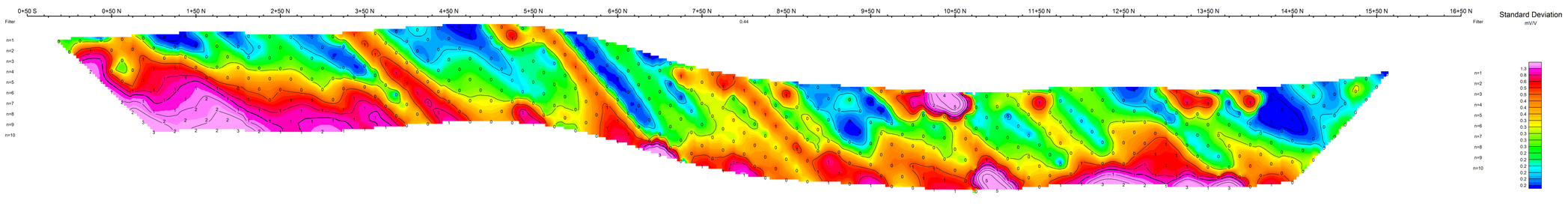
App. Chargeaeability Model
mV/V

Predicted App. Chargeability
mV/V



Predicted App. Chargeability
mV/V

Standard Deviation
mV/V



Standard Deviation
mV/V

Scale 1:2500
25 0 25 50 75 100 125 150
(meters)

COPPER NORTH CORP.

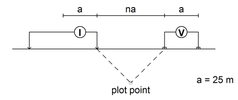
CARMACKS COPPEFR PROJECT
ZONE 2
L14-3 PSEUDOSECTION PLOTS

WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS: 115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 18/09/2014

AURORA GEOSCIENCES LTD.

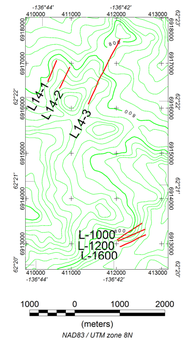
COMPOSITE SECTION PLOTS
10+00 S

Modified Pole-Dipole Array

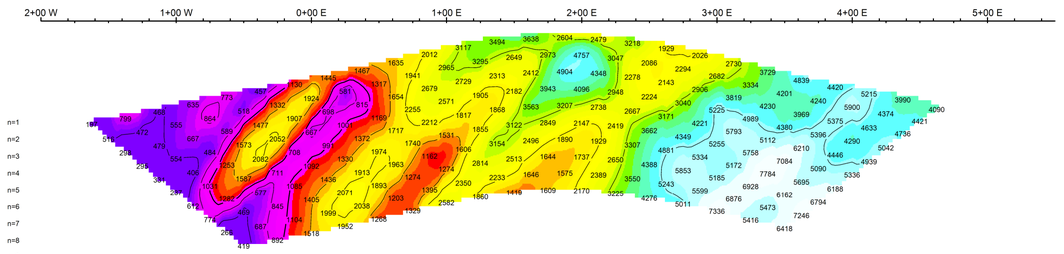


a = 25 m

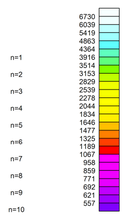
Stationary electrode at 150 W (moving E).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8- 13, 2014



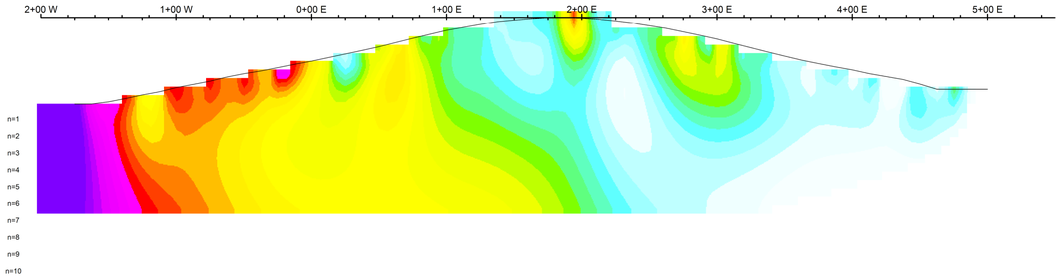
App. Chargeability
Ohm*m



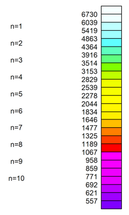
App. Resistivty
Ohm*m



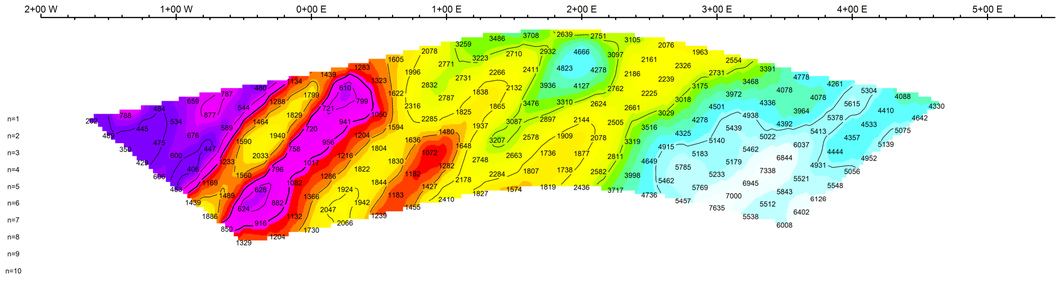
App. Resistivity Model
Ohm*m



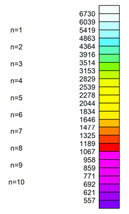
App. Resistivity Model
Ohm*m



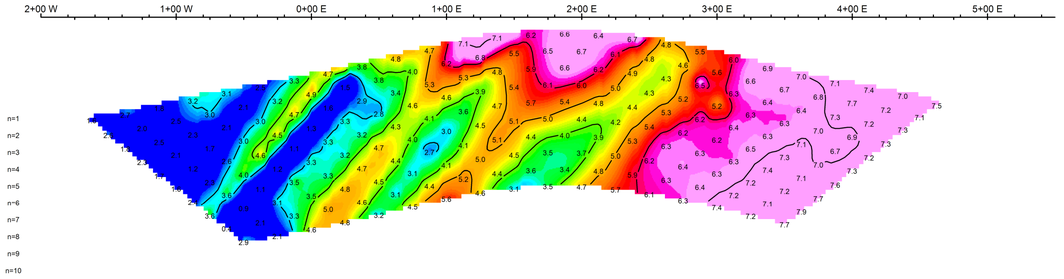
Predicted App. Resistivity
Ohm*m



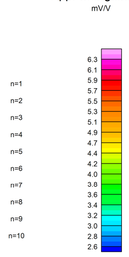
Predicted App. Resistivity
Ohm*m



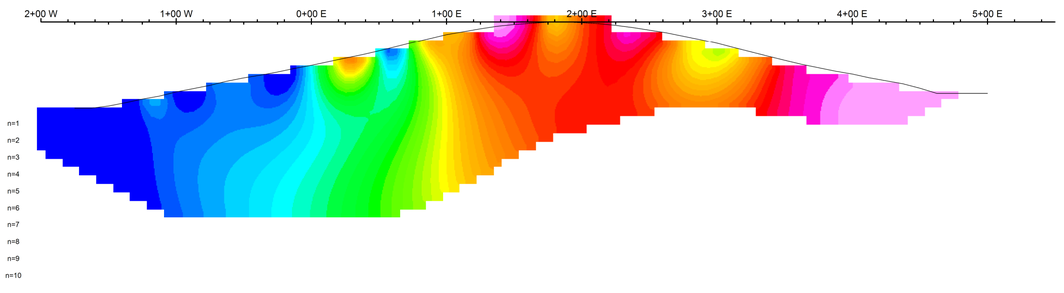
App. Chargeability
mV/V



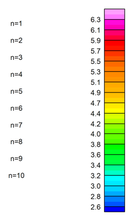
App. Chargeability
mV/V



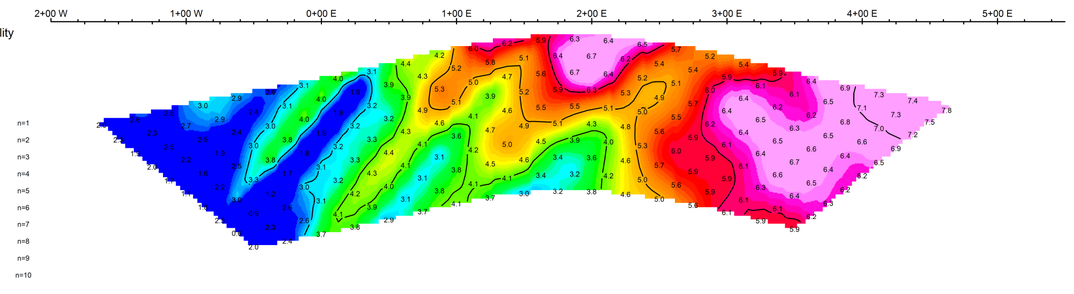
App. Chargaeability Model
mV/V



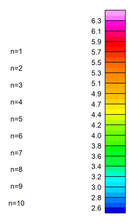
App. Chargaeability Model
mV/V



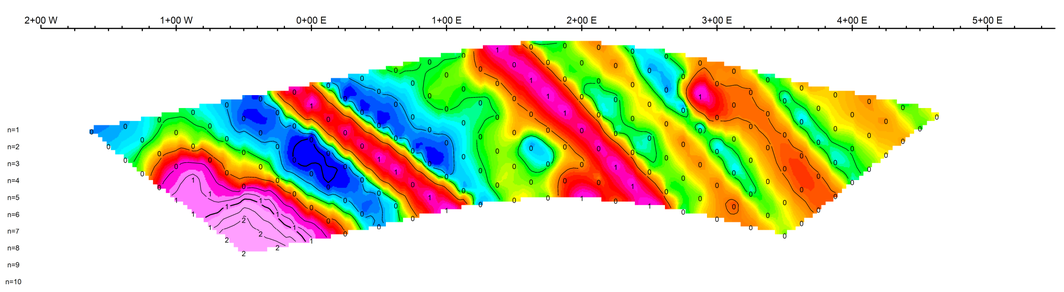
Predicted App. Chargeability
mV/V



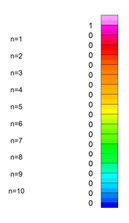
Predicted App. Chargeability
mV/V



Standard Deviation
mV/V



Standard Deviation
mV/V



Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

COPPER NORTH CORP.

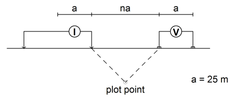
CARMACKS COPPEFR PROJECT
2000S Zone
L10+00 S PSEUDOSECTION PLOTS

WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS: 115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 18/09/2014

AURORA GEOSCIENCES LTD.

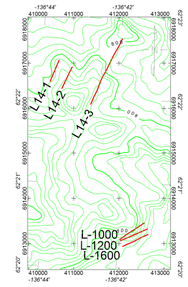
COMPOSITE SECTION PLOTS
12+00 S

Modified Pole-Dipole Array



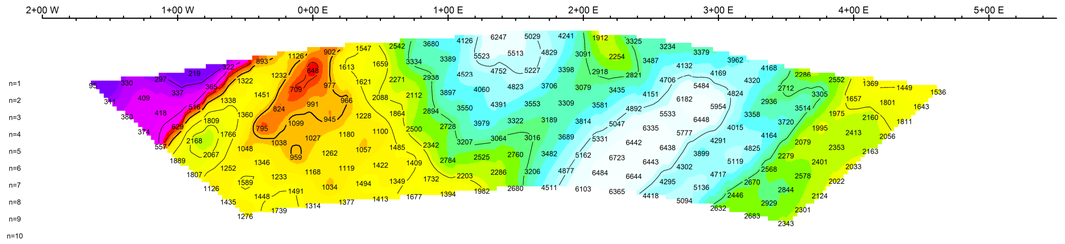
a = 25 m

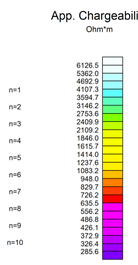
Stationary electrode at 175W (moving E).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8- 13, 2014



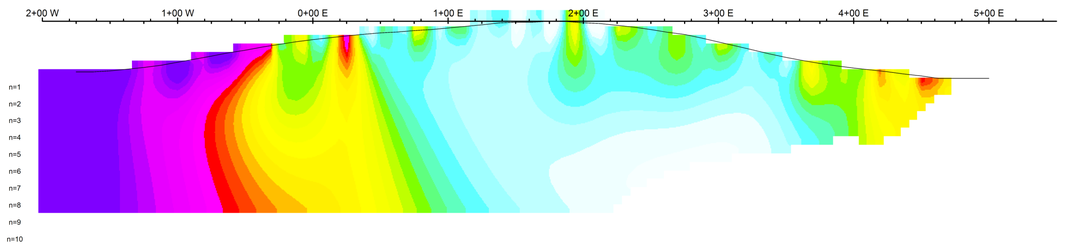
1000 0 1000 2000
(meters)
NAD83 / UTM zone 8N

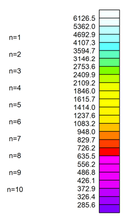
App. Chargeability
Ohm*m



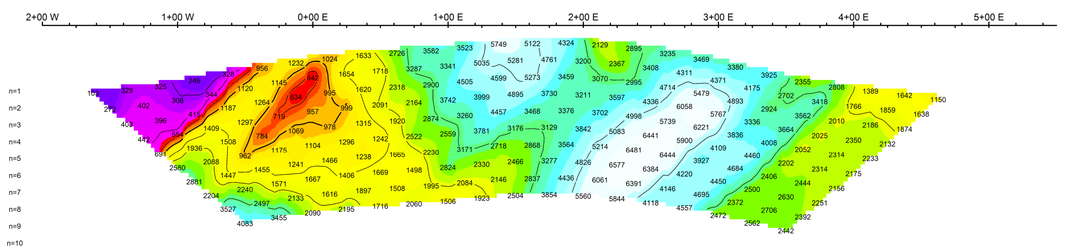


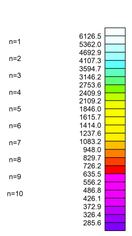
App. Resistivity Model
Ohm*m



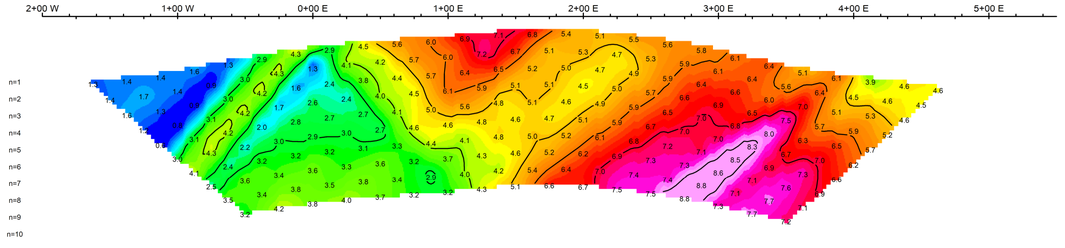


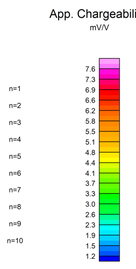
Predicted App. Resistivity
Ohm*m



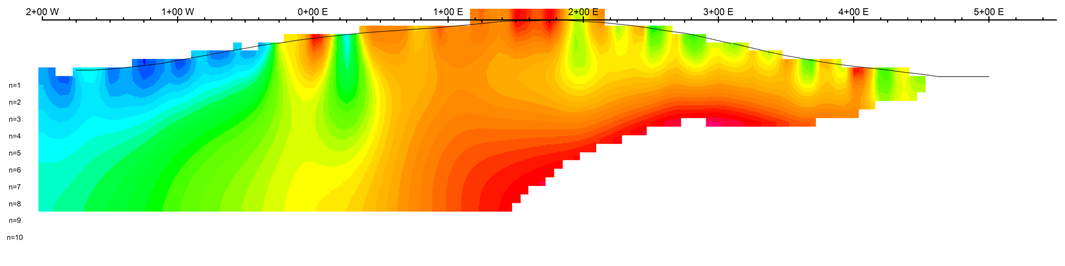


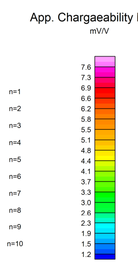
App. Chargeability
mV/V



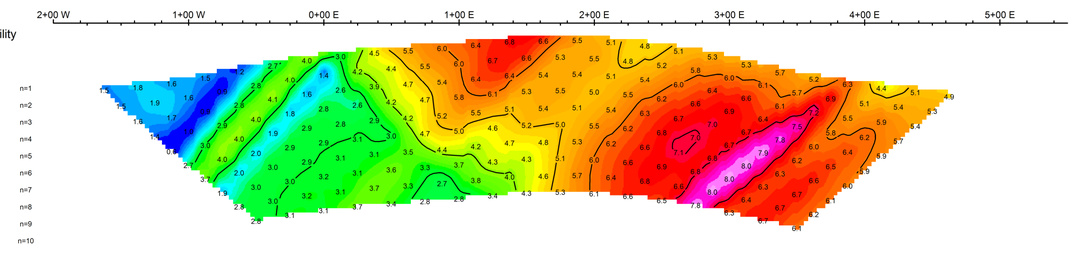


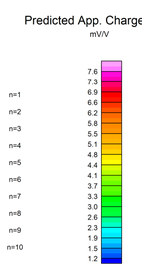
App. Chargeaeability Model
mV/V



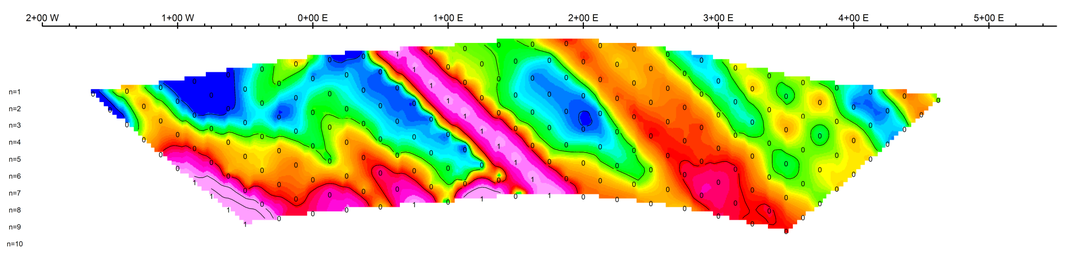


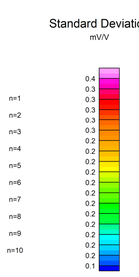
Predicted App. Chargeability
mV/V





Standard Deviation
mV/V





Scale 1:2500
25 0 25 50 75 100 125 150
(meters)

COPPER NORTH CORP.

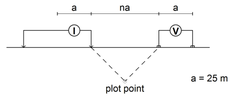
CARMACKS COPPEFR PROJECT
2000S ZONE
L12+00 S PSEUDOSECTION PLOTS

WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS: 115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 18/09/2014

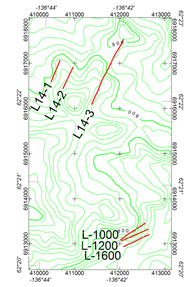
AURORA GEOSCIENCES LTD.

COMPOSITE SECTION PLOTS
1600 S

Modified Pole-Dipole Array

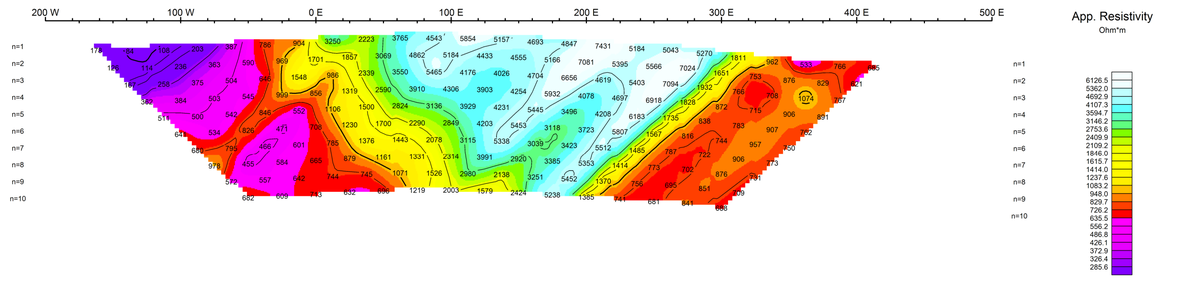


Stationary electrode at 250W (moving E).
Receiver: Iris ElrecPro
Transmitter: GDD Tx-II 3.6kW
Data File: Carmacks Copper 2014 IP.xyz
Dates Surveyed : Sept 8- 13, 2014

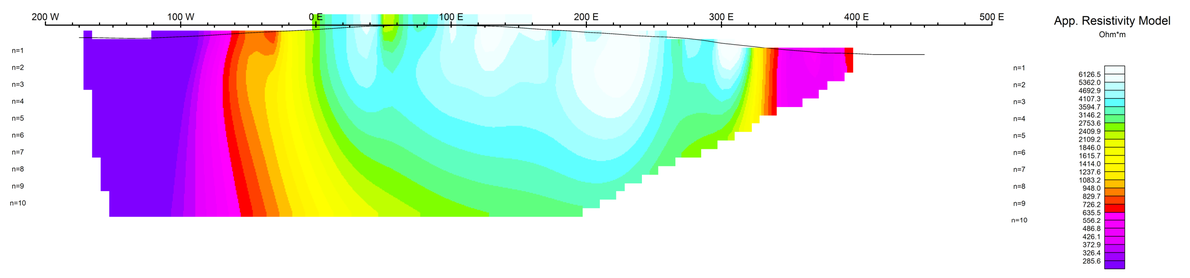


1000 0 1000 2000
(meters)
NAD83 / UTM zone 8N

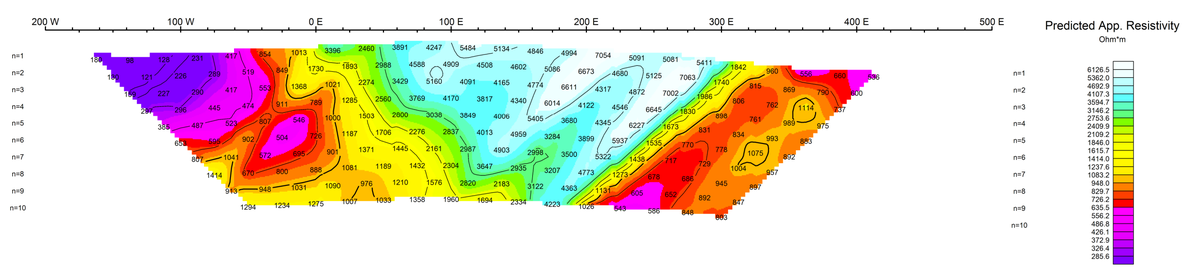
App. Resistivity
Ohm*m



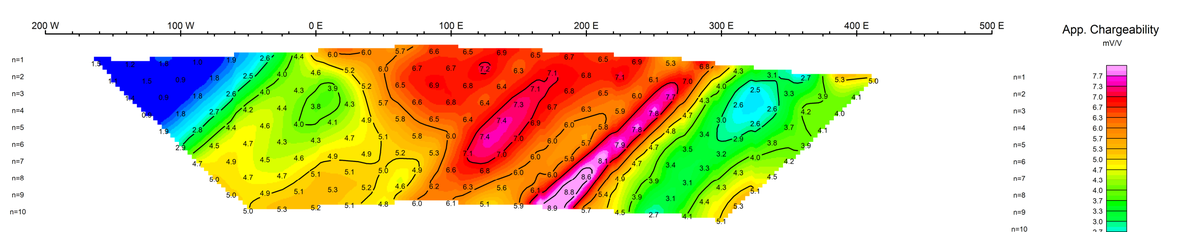
App. Resistivity Model
Ohm*m

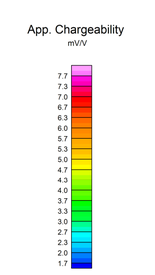


Predicted App. Resistivity
Ohm*m

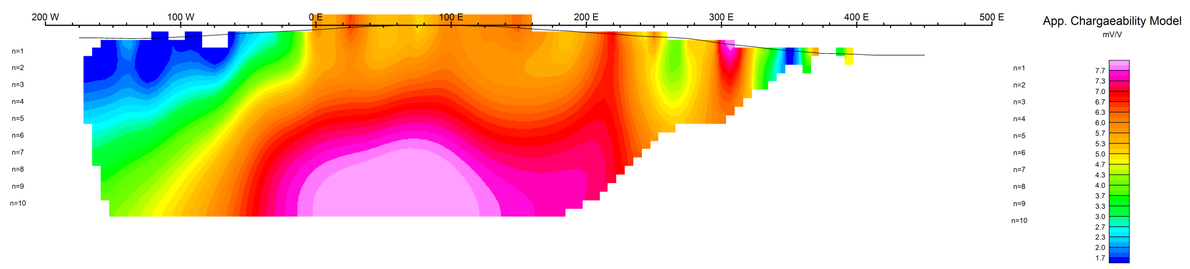


App. Chargeability
mV/V

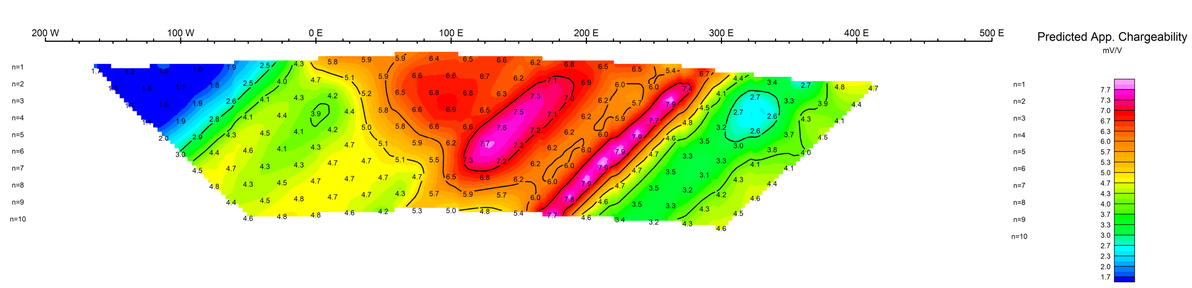




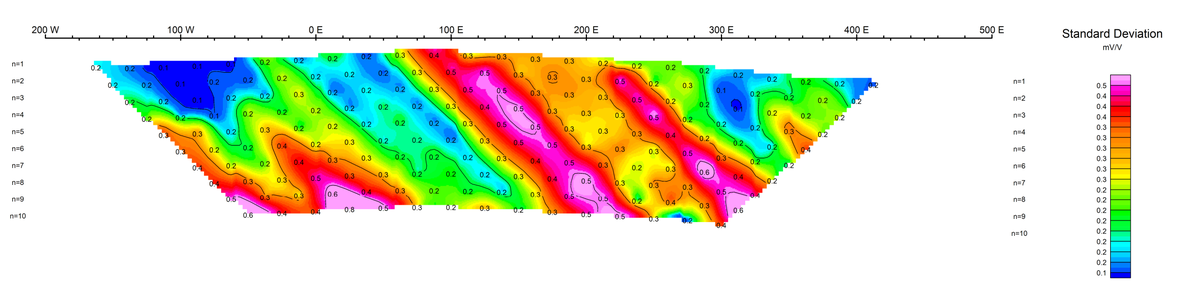
App. Chargaeability Model
mV/V



Predicted App. Chargeability
mV/V



Standard Deviation
mV/V



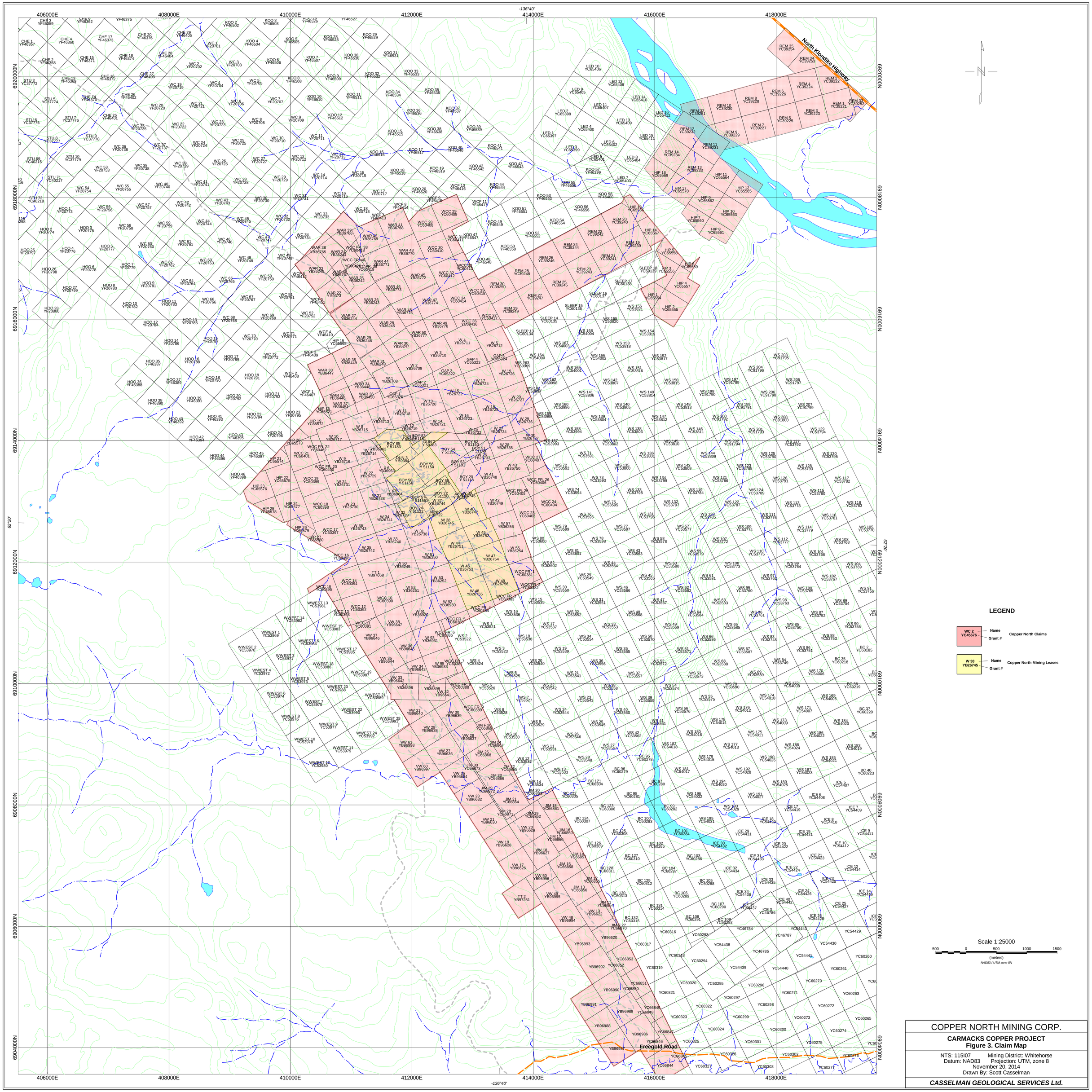
Scale 1:2500
25 0 25 50 75 100 125 150
(meters)

COPPER NORTH CORP.

CARMACKS COPPEFR PROJECT
2000S ZONE
L1600 S PSEUDOSECTION PLOTS

WHITEHORSE MINING DISTRICT, YUKON, CANADA
NTS: 115 I/07
DATE SURVEYED : SEPT 2014
DRAWN BY: AL / DATE DRAWN: 29/09/2014

AURORA GEOSCIENCES LTD.


-136°40'
406000E
408000E
410000E
412000E
414000E
416000E
418000E
6920000N
6918000N
6916000N
6914000N
6912000N
6910000N
6908000N
6906000N
6904000N
62°20'
North Klondike Highway
Freegold Road
LEGEND
WC 2
YC45676
Name
Grant #
Copper North Claims
W 38
YB26745
Name
Grant #
Copper North Mining Leases
Scale 1:25000
500 0 500 1000 1500
(meters)
NAD83 / UTM zone 8N
COPPER NORTH MINING CORP.
CARMACKS COPPER PROJECT
Figure 3. Claim Map
NTS: 115I07
Datum: NAD83
Mining District: Whitehorse
Projection: UTM, zone 8
November 20, 2014
Drawn By: Scott Casselman
CASSELMAN GEOLOGICAL SERVICES Ltd.

406000E 408000E 410000E 412000E -136°40' 414000E 416000E 418000E

6920000N 6916000N 6912000N 6908000N 6904000N

62°20'

North Klondike Highway

Zone 2
Zone 9
Zone 5
Zone 1
Zone 6
Zone 7
7A
Zone 4
GAP Zone
Zone 8
2000 S Zone
Zone 14
(projected to surface)
Zone 13
Zone 12
Zone 10
Freegold Road

62°20'

LEGEND

- uKC — upper Cretaceous; Carmacks Group - intermediate to mafic volcanic flows
- EJgA — Early Jurassic; Granite Mountian Batholith - granodiorite
- Upper Triassic (?); Povoas Group (?) - meta-volcanics and meta-sediments
- uTrP — Upper Triassic; Povoas Group - mafic volcaniclastics and sediments

- faults
- Governement maintained roads
- Property access roads and trails

Scale 1:25000

500 0 500 1000 1500

(meters)

NAD83 / UTM zone 8N

406000E 408000E 410000E 412000E -136°40' 414000E 416000E 418000E

COPPER NORTH MINING CORP.

CARMACKS COPPER PROJECT
Figure 4. Property Geology Map

NTS: 115I07 Mining District: Whitehorse
Datum: NAD83 Projection: UTM, zone 8
December 2, 2014
Drawn By: Scott Casselman

CASSELMAN GEOLOGICAL SERVICES Ltd.

410500 411000 411500 412000 412500 413000 413500 414000 414500

6917500 6917000 6916500 6916000 6915500 6915000 6914500 6914000 6913500 6913000 6912500 6912000

See Figure 7- Soil Geochemistry (Copper)

See Figure 6 - Geology, Drilling and Trenching

L14-1

L14-2

L14-3

Zone 2

14TR-15

14TR-16

14TR-17

Zone 9

Zone 5

Zone 1

See Figure 13 - GAP Zone Plan Map

Zone 6

Zone 7, 7A

Zone 4

L-1000 N

L-1200 N

L-1600 N

GAP Zone

Zone 8

2000 S Zone

14TR-26

14TR-27

Zone 14

Zone 13

14TR-28

14TR-29

Zone 12

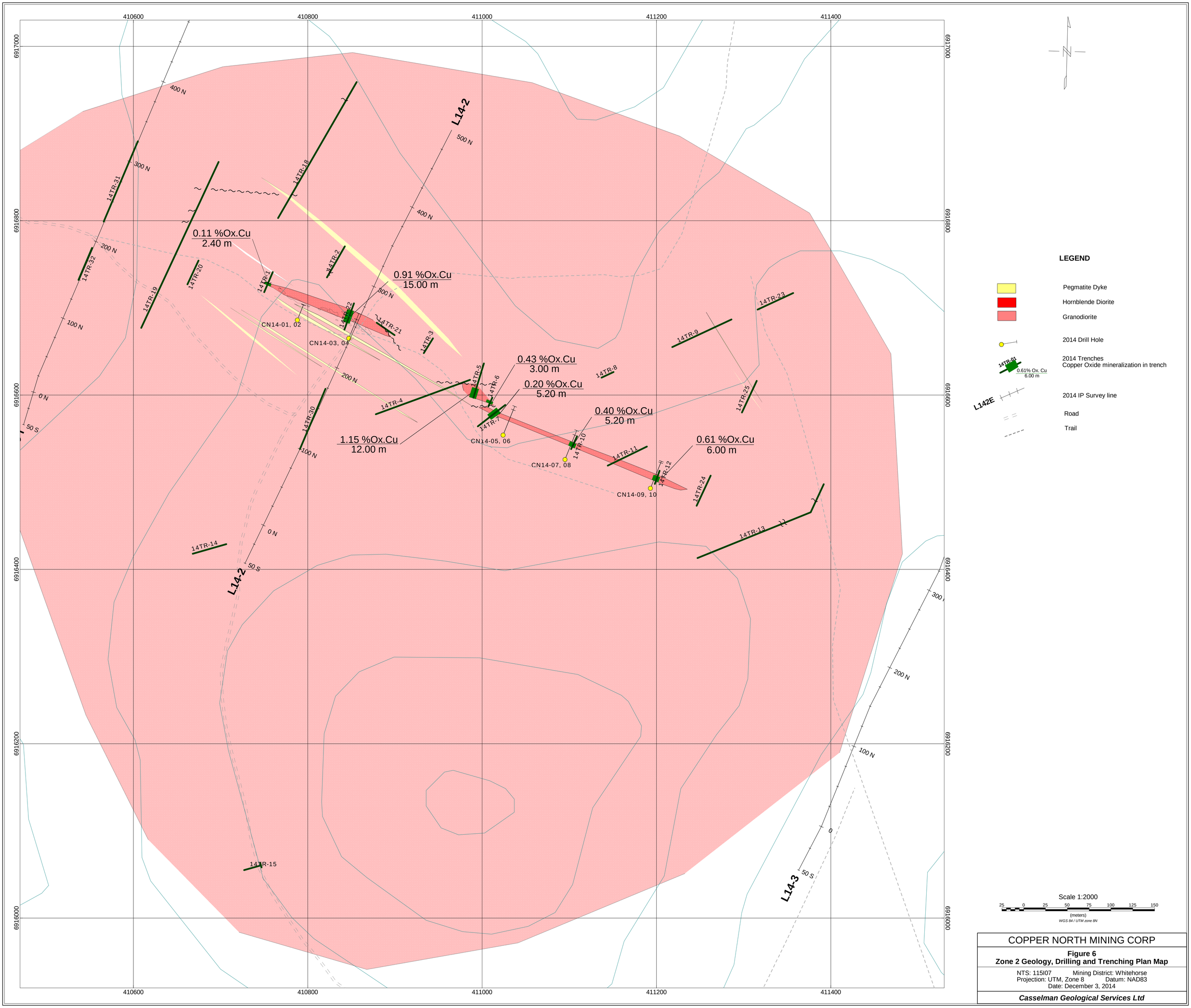
Scale 1:10000

200 0 200 400 600

(meters)

WGS 84 / UTM zone 8N

COPPER NORTH MINING CORP	
Figure 5 - 2014 Work Index Map	
NTS: 115I07	Mining District: Whitehorse
Projection: UTM, Zone 8	Datum: NAD83
Date: December 2, 2014	
Drawn by: Scott Casselman	
Casselman Geological Services Ltd	



COPPER NORTH MINING CORP

Figure 6
Zone 2 Geology, Drilling and Trenching Plan Map

NTS: 115I07 Mining District: Whitehorse
Projection: UTM, Zone 8 Datum: NAD83
Date: December 3, 2014

Casselman Geological Services Ltd

410500
411000
411500
412000
412500
6917500
6917000
6916500
6916000

L14+1
600 N
400 N
300 N
200 N
100 N
0 N
50 S

L14+2
500 N
400 N
300 N
200 N
100 N
0 N
50 S

L14+3
1600 N
1500 N
1400 N
1300 N
1200 N
1100 N
1000 N
900 N
800 N
700 N
600 N
500 N
400 N
300 N
200 N
100 N
0
50 S

Zone 2

LEGEND

2014 Soil Samples

Cu_ppm

- > 106
- 63.6 - 106
- 21.2 - 63.6
- < 21.2

Historic Soil Samples

Cu_ppm

- > 106
- 63.6 - 106
- 21.2 - 63.6
- < 21.2

Zone 2 copper mineralization

4x4 Road

Trail

Scale 1:5000

100 0 100 200 300

(meters)

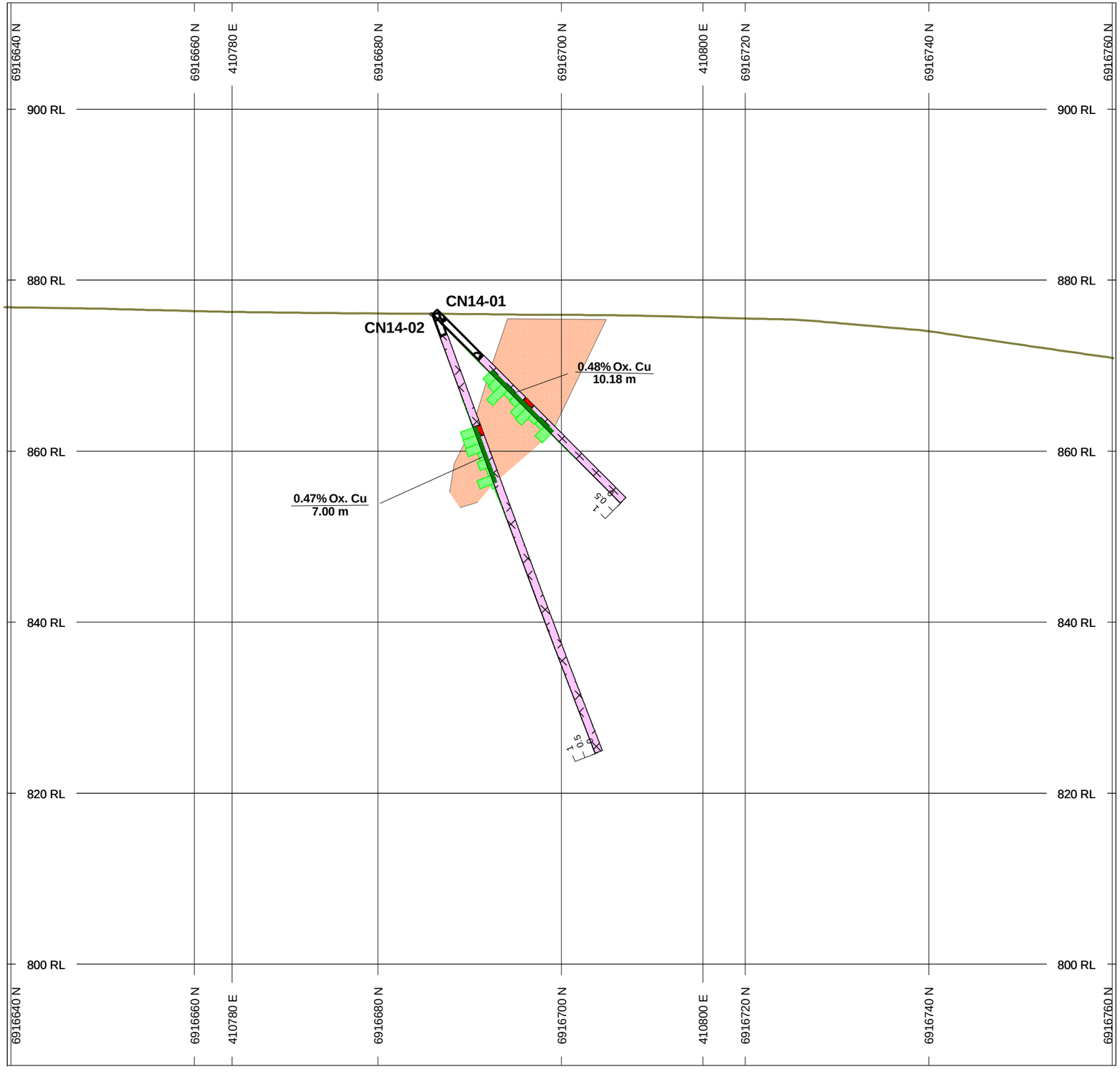
WGS 84 / UTM zone 8N

COPPER NORTH MINING CORP

Figure 7 - Zone 2 Soil Geochemistry (Copper)

NTS: 115I07 Mining District: Whitehorse
Projection: UTM, Zone 8 Datum: NAD83
Date: December 3, 2014
Drawn by: Scott Casselman

Casselman Geological Services Ltd



LEGEND

ROCK CODES

- Overburden
- Granodiorite
- Meta-Diorite

BAR GRAPHS

- Oxide copper percent

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	410794 m	6916700 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	912.4 m	788.2 m
TOLERANCE +/-	6.45 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD 83, UTM Zone 8

AZIMUTH = 21.3°

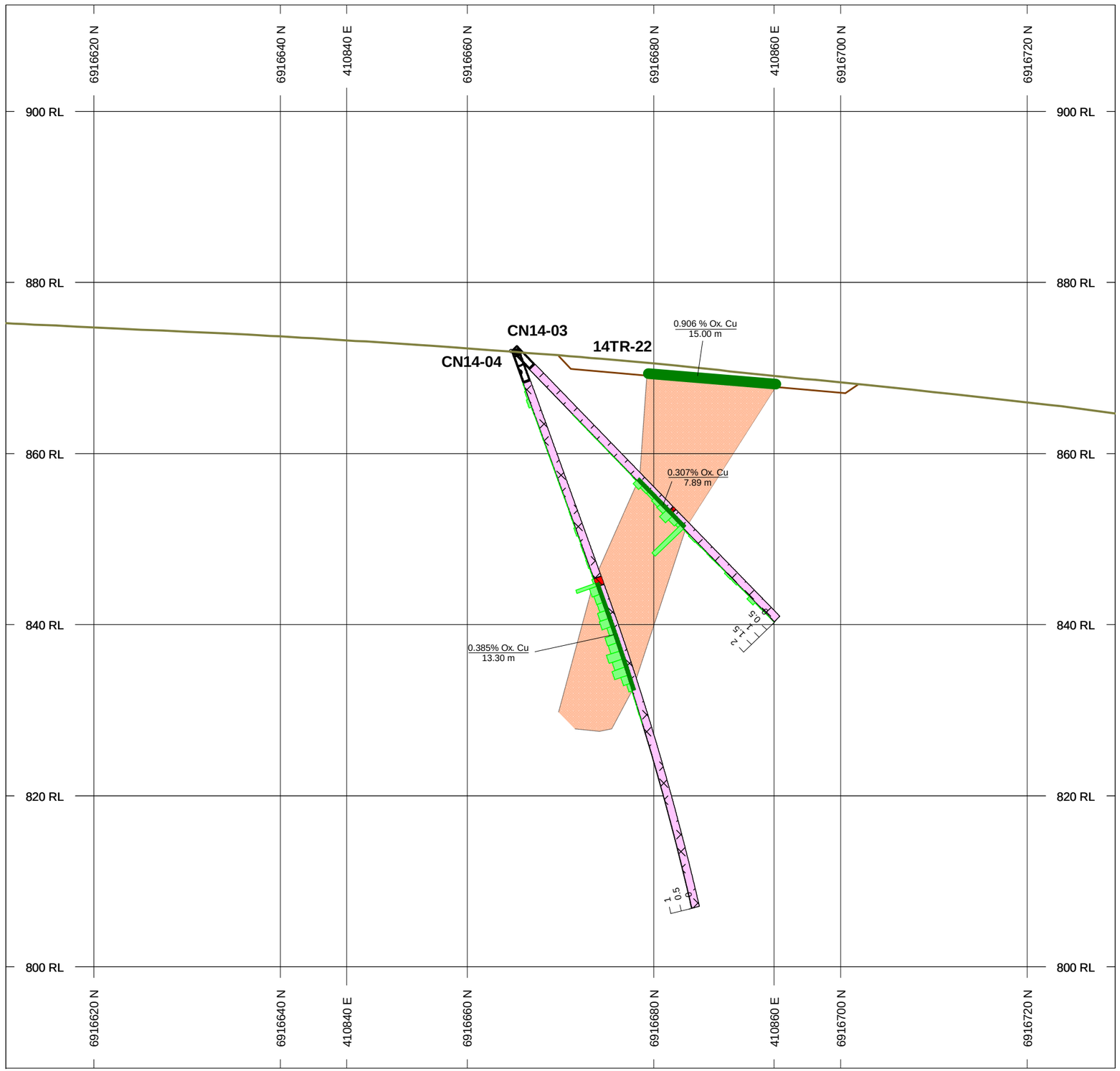
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2

Figure 8. Drill Section - CN14-01 and CN14-02



LEGEND

ROCK CODES

- Overburden
- Granodiorite
- Meta-Diorite

BAR GRAPHS

- Oxide copper distribution (%)

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	410850 m	6916670 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	912.4 m	788.2 m
TOLERANCE +/-	15 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD83, UTM, Zone 8

AZIMUTH = 23.6°

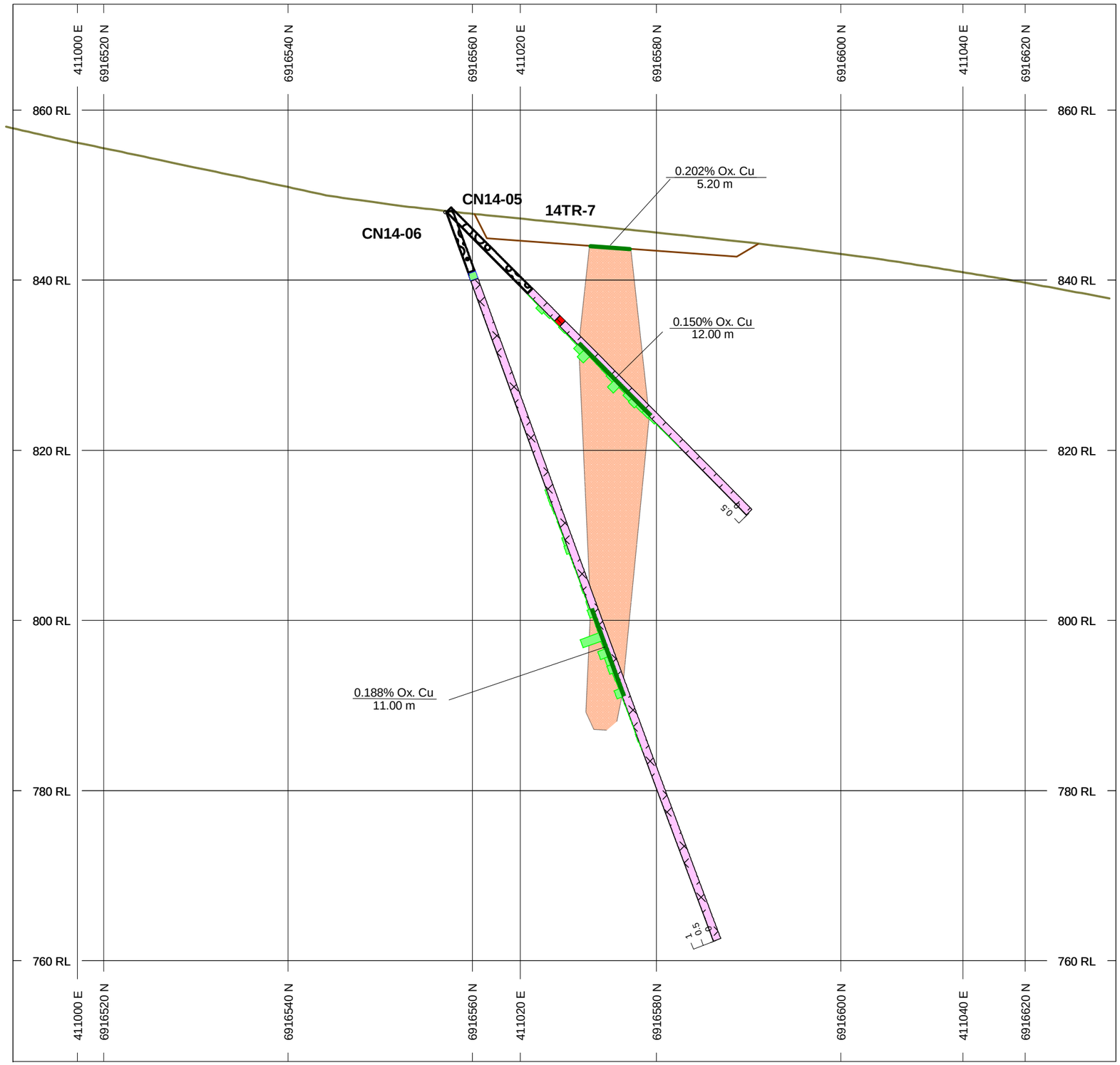
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2

Figure 9. Drill Section - CN14-03 and CN14-04



LEGEND

ROCK CODES

- Overburden
- Carmacks Volcanics
- Granodiorite
- Meta-Diorite

BAR GRAPHS

- Oxide copper distribution (%)

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	411022 m	6916570 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	872.4 m	748.2 m
TOLERANCE +/-	19.65 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD 83, UTM Zone 8

AZIMUTH = 22.6°

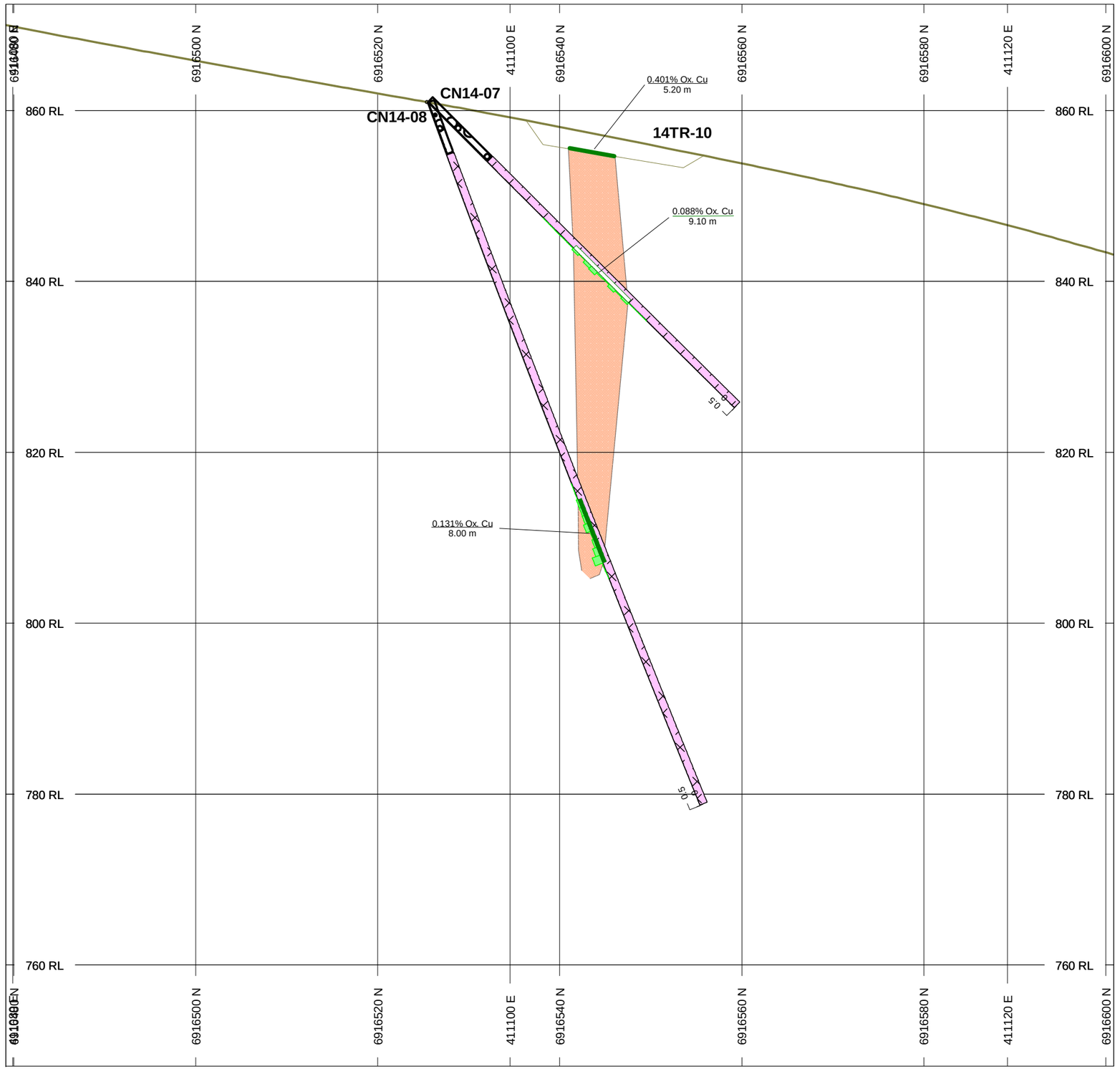
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2

Figure 10. Drill Section - CN14-05 and CN14-06



LEGEND

ROCK CODES

- Overburden
- Carmacks Volcanics
- Granodiorite
- Meta-Diorite

BAR GRAPHS

- Oxide copper distribution (%)

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	411102 m	6916540 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	872.4 m	748.2 m
TOLERANCE +/-	8.55 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD 83, UTM Zone 8

AZIMUTH = 20.1°

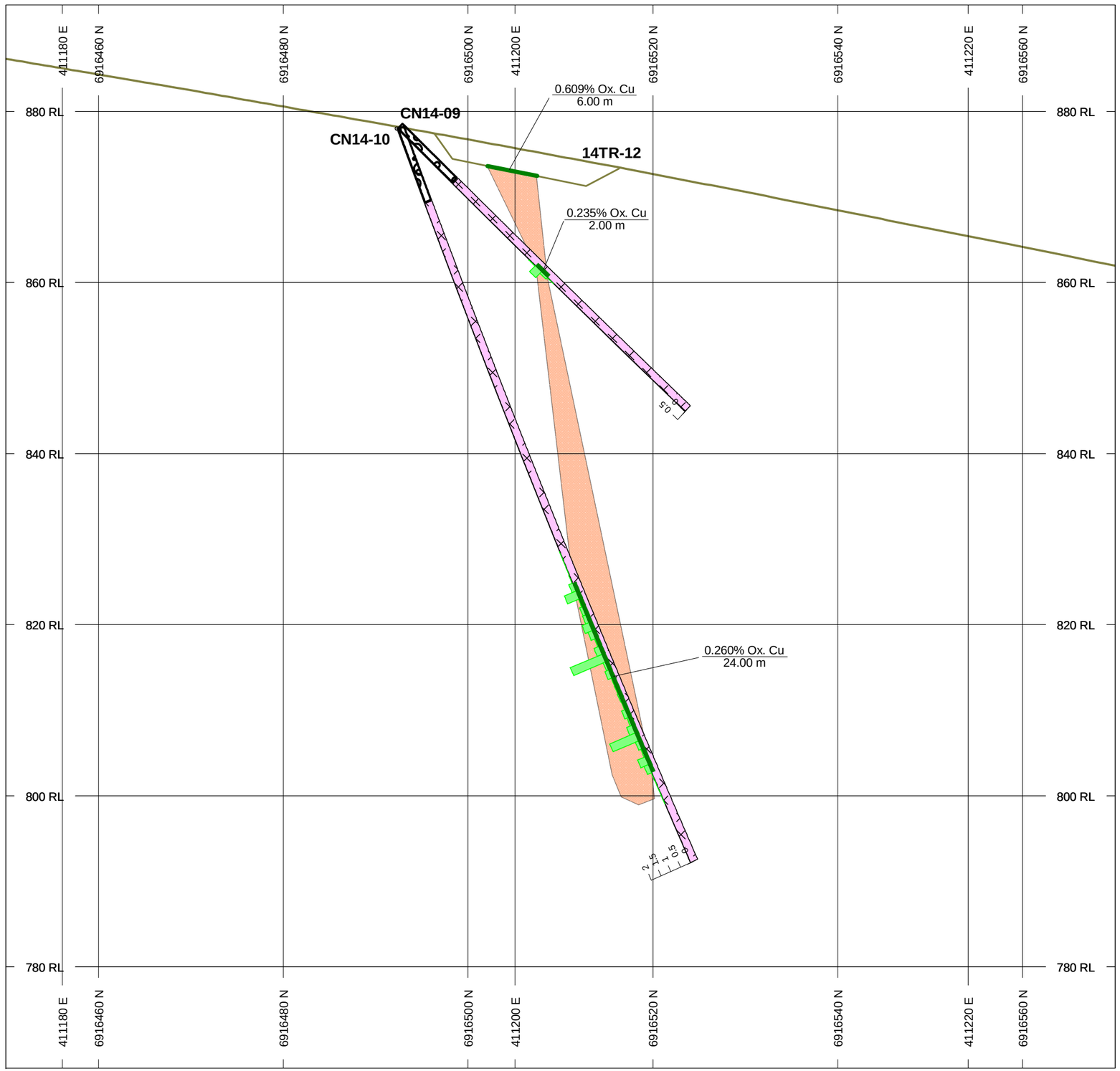
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2

Figure 11. Drill Section - CN14-07 and CN14-08



LEGEND

ROCK CODES

- Overburden
- Carmacks Volcanics
- Granodiorite
- Meta-Diorite

BAR GRAPHS

- Oxide copper distribution (%)

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	411202 m	6916510 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	892.4 m	768.2 m
TOLERANCE +/-	5.85 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD 83, UTM Zone 8

AZIMUTH = 22.2°

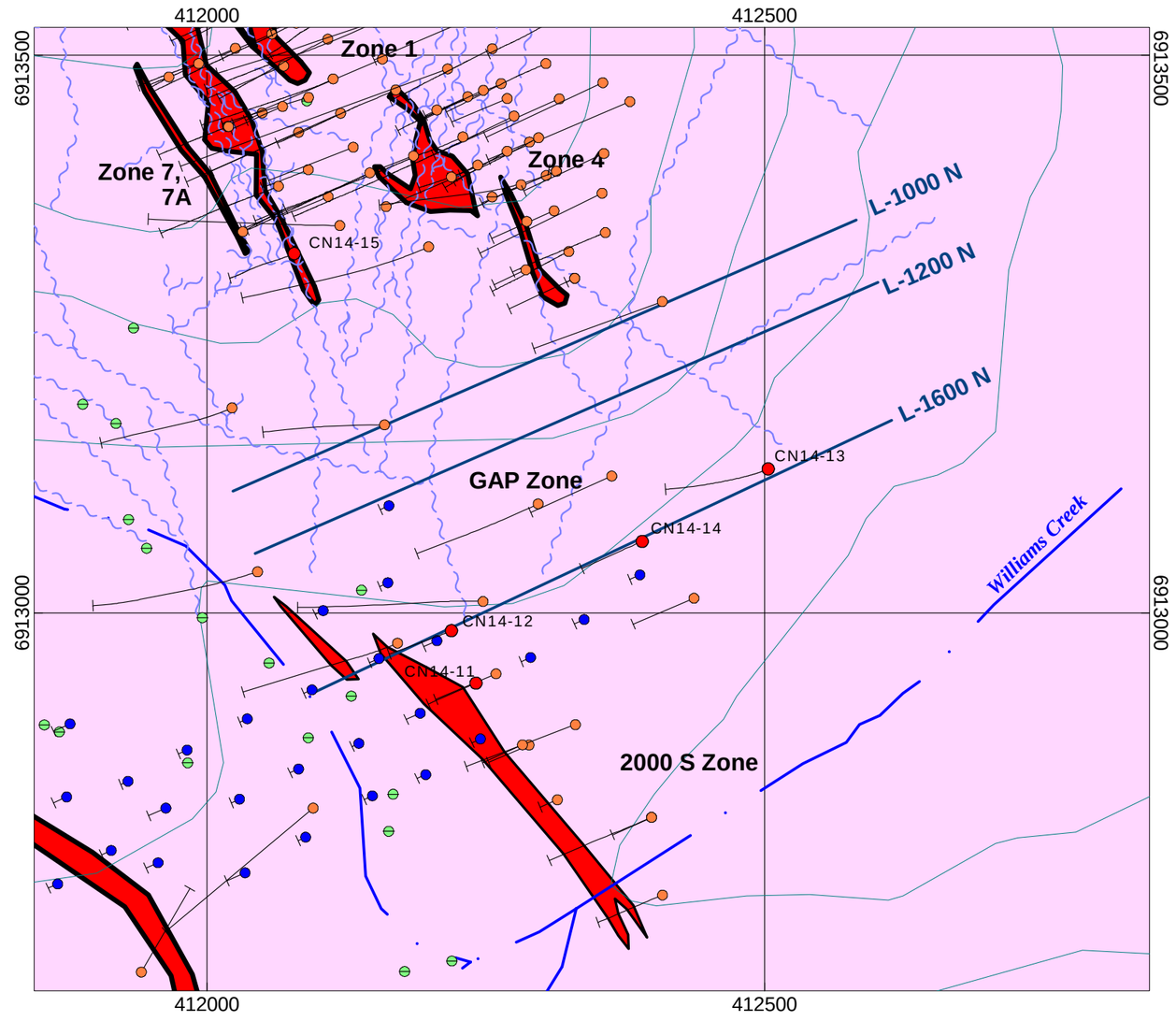
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2

Figure 12. Drill Section - CN14-09 and CN14-10



LEGEND

- Granodiorite
- Gneiss
- faults
- Geotechnical drill holes
- Rapid Air Blast (RAB) holes
- Historic diamond drill holes
- CN14-01 2014 diamond drill holes
- L-1600N 2014 IP Survey Line

Scale 1:5000

50 0 50 100 150 200 250

(meters)

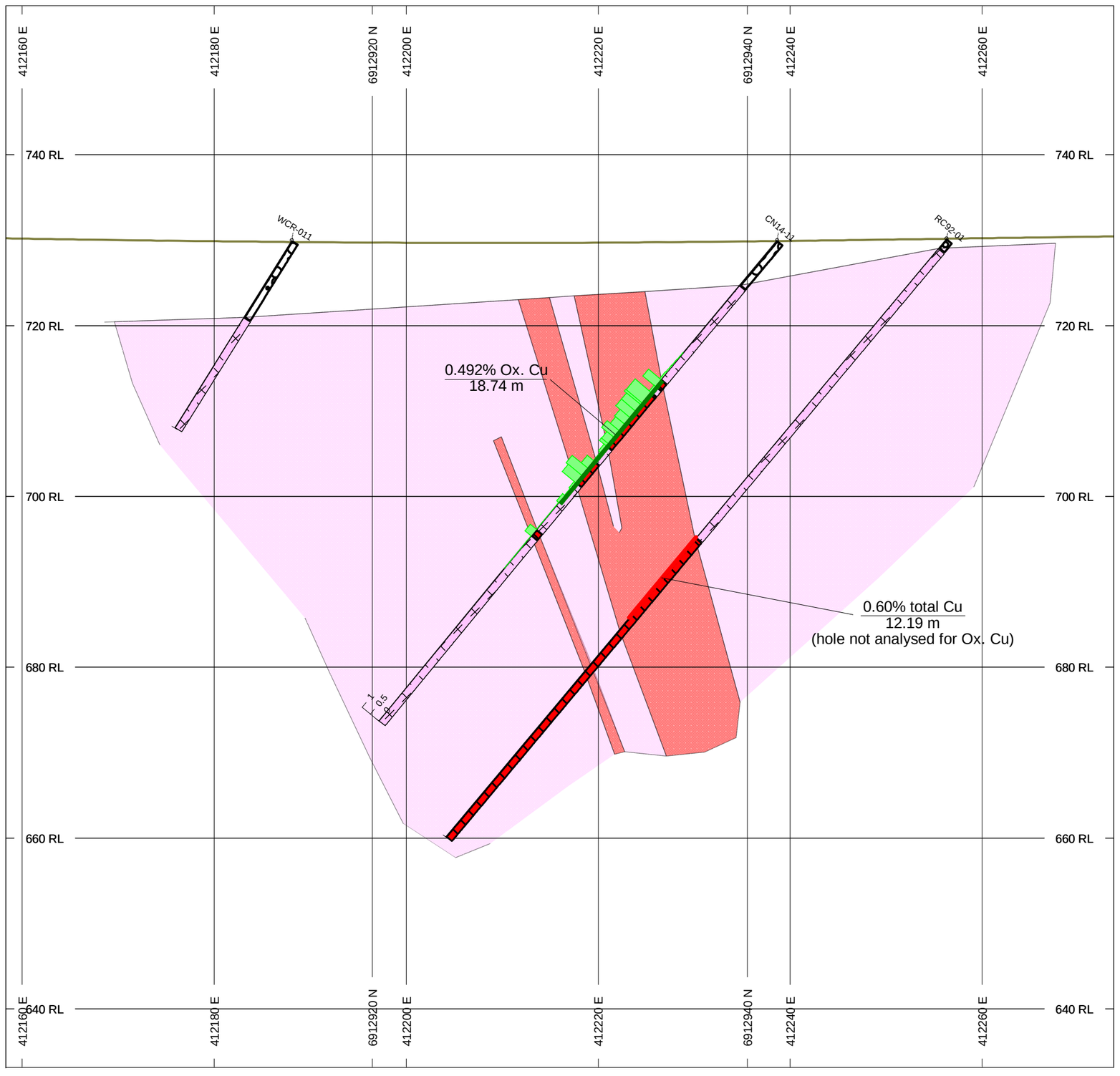
WGS 84 / UTM zone 8N

COPPER NORTH MINING CORP

Figure 13 - GAP Zone Plan Map

NTS: 115I07 Mining District: Whitehorse
Projection: UTM, Zone 8 Datum: NAD83
Date: December 9, 2014
Drawn by: Scott Casselman

Casselman Geological Services Ltd



LEGEND

ROCK CODES

- Overburden
- Granodiorite
- Gneiss

BAR GRAPHS

- Oxide copper percent

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	412216 m	6912930 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	757.4 m	633.2 m
TOLERANCE +/-	13 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD 83, UTM Zone 8

AZIMUTH = 62.9°

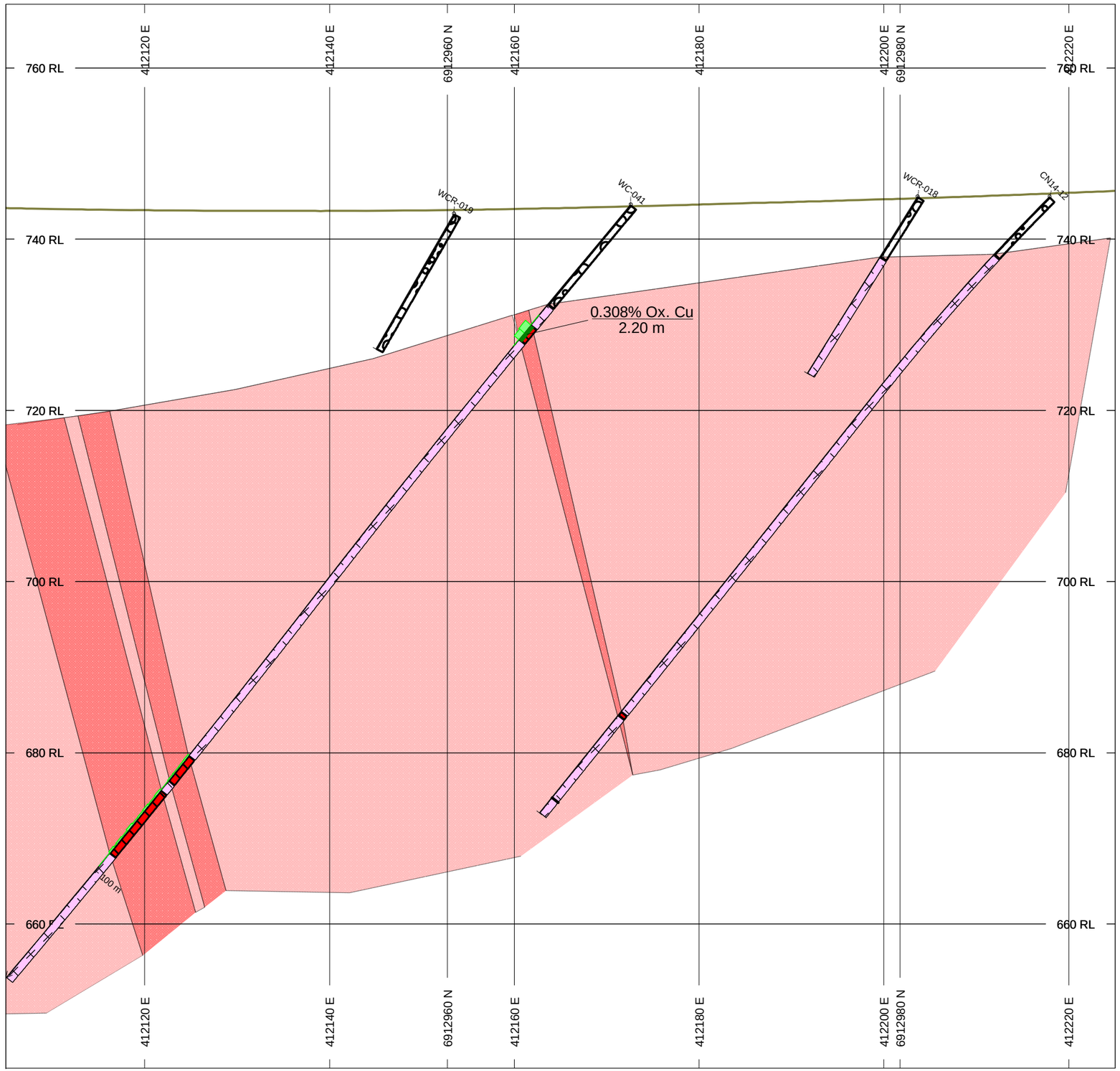
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2000S / GAP Zone

Figure 14. Drill Section - CN14-11



LEGEND

ROCK CODES

- Overburden
- Granodiorite
- Gneiss

BAR GRAPHS

- Oxide copper percent

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	412165 m	6912965 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	767.4 m	643.2 m
TOLERANCE +/-	12.05 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD83, UTM Zone 8

AZIMUTH = 67.8°

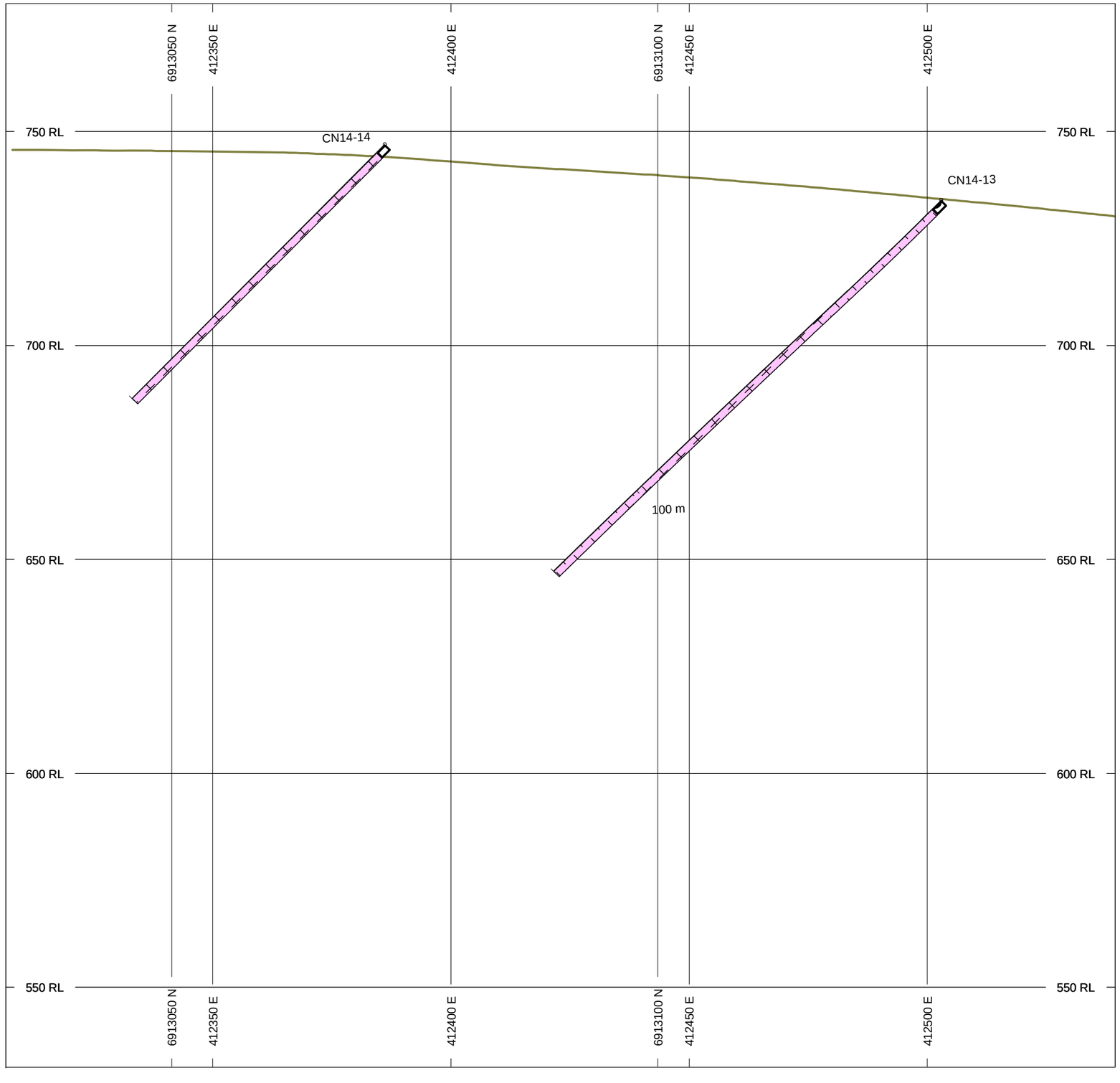
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 2000S / GAP Zone

Figure 15. Drill Section - CN14-12



LEGEND

ROCK CODES

- Overburden
- Granodiorite
- Gneiss

BAR GRAPHS

- Oxide copper percent

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	412423 m	6913090 m
EXTENTS	259.4 m	248.5 m
SECTION TOP, BOT	779.9 m	531.4 m
TOLERANCE +/-	28.45 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

NAD83, UTM zone 8

AZIMUTH = 63.9°

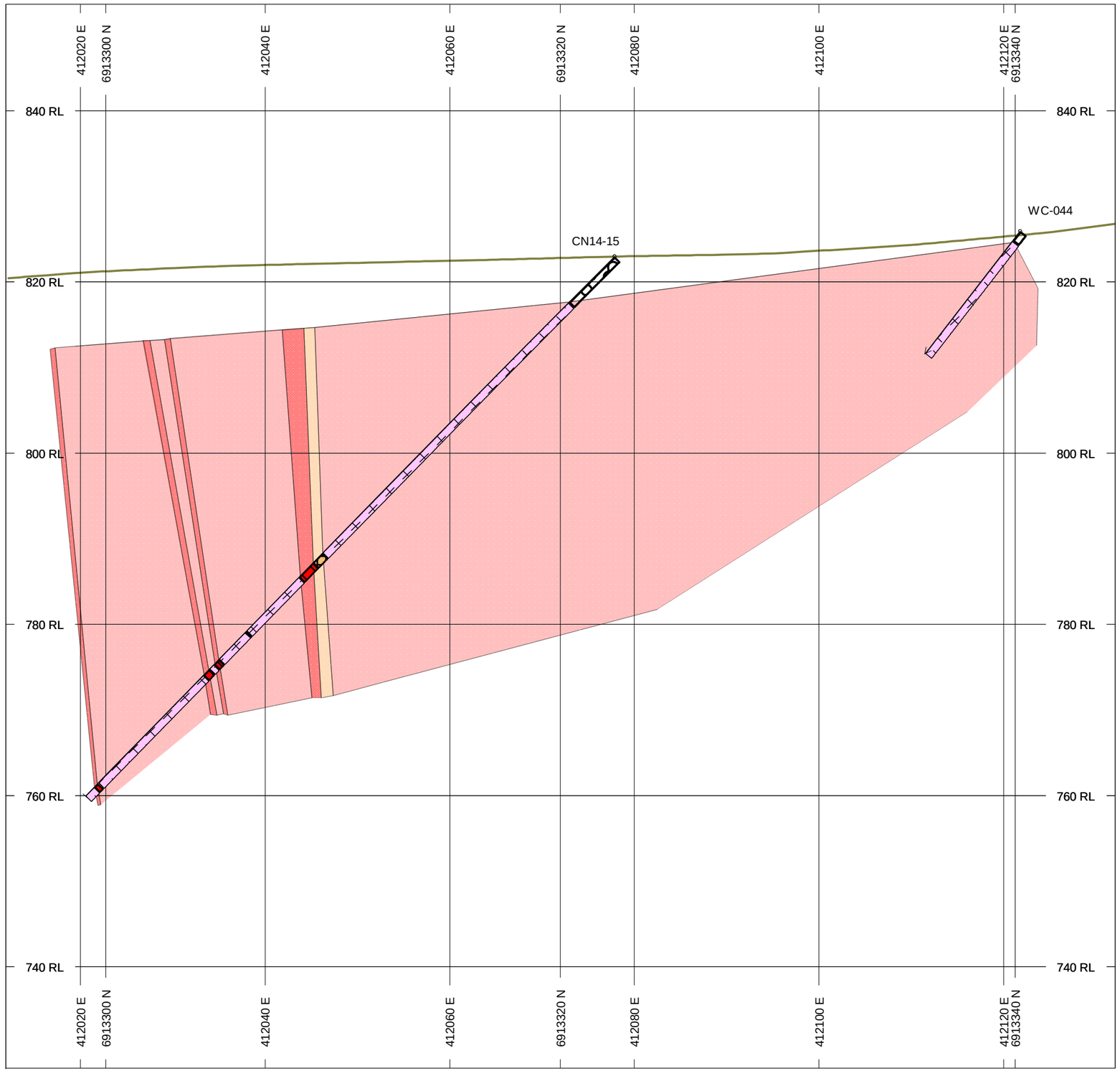
N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

GAP Zone

Figure 16. Drill Section - CN14-13 and CN14-14



LEGEND

ROCK CODES

- Overburden
- Intermediate Dyke
- Pegmatite
- Granodiorite
- Gneiss

BAR GRAPHS

- Oxide copper percent

NUMBER BANDS

- >0.1% composite oxide copper percent with % Ox. Cu over drill width in m

SECTION SPECS:

REF. PT. E, N	412072 m	6913320 m
EXTENTS	129.7 m	124.3 m
SECTION TOP, BOT	852.4 m	728.2 m
TOLERANCE +/-	12.1 m	

SCALE 1 : 500

(m)

-5 0 5 10 15 20

NAD83, UTM zone 8

AZIMUTH = 67.9°

N W E S

COPPER NORTH MINING CORP.

CARMACKS COPPER PROPERTY

Zone 7 / 7A

Figure 17. Drill Section - CN14-15