We are committed to providing accessible customer service.
If you need accessible formats or communications supports, please contact us.

Nous tenons à améliorer l’accessibilité des services à la clientèle.
Si vous avez besoin de formats accessibles ou d’aide à la communication, veuillez nous contacter.

REPORT ON
DIAMOND DRILLING CONDUCTED ON
CLAIMS 4275237 AND 4275238
OF THE RIDLEY LAKE (SWAYZE) PROPERTY

ROLLO AND RANEY TOWNSHIPS
NTS Sheet
041O/15

Work Period
July 06 – July 26, 2016

Authors:
Bogdan Nitescu, P.Geo.
Warren Hawkins, P. Eng.

November 03, 2016

Table of Contents

List of Tables

List of Maps and Sections

Notes
1) All UTM coordinates presented in the report are NAD 83 UTM Zone 17.
2) Work period stated on cover page starts with mobilization date of Company supervisor and ends with the date for shipping of all the core samples from the field logging site and demobilisation of remaining personnel.

Introduction

Richmond Minerals Inc. ("the Company") owns 154 contiguous unpatented mining claims comprising a total of 194 mining units in the Rollo and Raney Townships, which form the Ridley Lake (Swayze) Property ("the Property") (Map 1). The initial property comprising 150 mining claims was staked in the 1980's. No exploration was conducted between 1990 and 2014, due to Certificates of Pending Legal Proceedings that were attached to the claims of the Property. The certificates were vacated by court order in February 2014 and the Company resumed exploration in the summer of 2014 (see also section Previous Work).

The current report presents the results of a five-hole diamond drilling program that was conducted in July, 2016 on claims 4275237 and 4275238 of the Property (Map 1). This work represents Phase II of drilling conducted on the Agaura East grid, which covers four claims situated immediately to the east of the Agaura gold occurrence. Phase II of drilling was designed as a continuation of the Phase I drilling program on the Agaura East Grid, which was completed in September-October, 2015 (see section Previous Work).

Location and Access

Ridley Lake (Swayze) Property is located in northern Ontario, Canada, approximately 110 km southwest of the city of Timmins, and 200 km northwest of Sudbury, extending between the Raney Lake and the southern half of the Rollo Lake, within the Raney and Rollo Townships, on N.T.S. Sheet 41O/15 (Map 1). Access is granted by a network of well maintained lumber roads. The Foleyet lumber road can be taken south from highway 101, and the Dore lumber road can be taken north from the Sultan industrial road. A road that loops around Rollo Lake from the Foleyet road passes through claims 4275237 and 4275238 (Map 2). In the area of the Property, the topography is gently undulating and elevations vary from ca. 380 m to ca. 430 m. Most of the Property appears to have been logged over the past 25 years and is currently covered by secondary growth forest that is often dense and difficult to penetrate.

The drill locations of all five holes that were drilled as part of Phase II drilling program were accessed via a path that was initially cut with an excavator in 2015 to access drill locations for Phase I drilling program, starting at 373014E, 5303600N (GPS coordinates) from the main, north-south access road that crosses claims 4275237 and 4275238 (Map 2). Three extensions were cut from the initial pathway at the location of Phase I drill hole RS15-19 (Map 3), in order to reach the actual locations of the drill holes planned for the current drilling program.

Geology

The Property is located within the western part of the Swayze-Deloro greenstone belt, which lies in the western region of the Abitibi Subprovince of the Superior Province. The Abitibi Subprovince is a Neoarchean granitoid-greenstone terrain that formed between 2.8 and 2.6 Ga (Jackson and Fyon, 1991). The Swayze-Deloro greenstone belt trends in a general east-west direction and consists of mafic to felsic metavolcanic and metasedimentary rocks intruded locally by quartz-feldspar porphyry, gabbro and diorite bodies.

Geological data from the Ontario Ministry of Northern Development and Mines (see www.mndm.gov.on.ca/en/mines-and-minerals/applications/ogsearth/bedrock-geology) and the Geological Survey of Canada Open File Report 3384b (Heather and Shore, 1999) indicate that the area covered by the work described in this report is underlain by mafic to intermediate metavolcanic rocks.

Gold mineralization in the Swayze-Deloro greenstone belt is often related to epigenetic vein systems in spatial association with deformation zones, occurring in a wide variety of rock types, but most commonly associated with carbonatized and/ or sericitized mafic volcanic rocks (e.g. Ayer, 1995).

In the Agaura area, the observed gold mineralization is closely associated with quartz-carbonate veining and disseminated iron sulphide in intermediate to mafic metavolcanic rocks and with a feldspar porphyry unit (Hillier, 1989; Nitescu and Hawkins, 2016). Hillier (1989) provides a summary of the geological features associated with the gold mineralization in the Agaura area, based on detailed logging of drill core. He states that "several geological features appear to be of significance in the deposition of gold mineralization in this area:

- Shear zone development producing permeable conditions favourable for hydrothermal fluid circulation;
- Carbonatization of the mafic volcanic possibly releasing gold into the system;
- Development of silicified, carbonatized, chloritized and mineralized fracture zones;
- Development of quartz + carbonate ± chlorite veins, stringers and stockworks generally with sulphide mineralization containing lower grade gold values in the surrounding wallrock;
- Emplacement of the feldspar porphyry sill/ dike creating a "heat engine" for hydrothermal re-concentration;
- Higher concentration of both disseminated and cubic pyrite mineralization;
- Contacts between mafic to intermediate flows and slightly coarser-grained mafic to intermediate flows;
- Contact between mafic flows and felsic to intermediate flows; and
- Proximity to mafic intrusive dikes."

Further details on the geology of the area covered by the Property and the geology, mineralization and history of exploration at the Agaura and Cyril Knight gold occurrences can be

found in the following reports available in the public domain: Rickaby (1935), Thurston et al. (1977), Phendler (1982), Filo (1983), Hillier (1989).

Previous Work

1930's
The Agaura and Cyril Knight gold occurrences were identified and were trenched and sampled by separate companies in the 1930's (Gordon et al., 1979, p. 116).

1930's to 1980
No exploration work was conducted in this time interval.

1980
Carlson Mines Ltd. optioned 20 claims staked by Ingamar Explorations Ltd., covering both gold occurrences. Property examination and prospecting work were conducted to locate and sample the 1930's trenches (Phendler, 1980; 1982).

1982
In May, 1982, the property was inspected and sampled by Newmont Explorations (Phendler, 1982).

1983
During the summer of 1983, Carlson Mines Ltd. conducted geological and geophysical (magnetic, VLF-EM and induced polarization) surveys over the property (Filo, 1983; Bowman, 1983).

1985
During the summer of 1985, Carlson Mines Ltd. carried out mechanical stripping and sampling in the area of the Agaura gold occurrence (Platt, 1986). In November, 1985, Terraquest Ltd. conducted an airborne VLF-EM and magnetometer survey over the property (Barrie, 1986).

1989
In February, 1989, joint-venture partners Carlson Mines Ltd. and Black Gregor Explorations Ltd. drilled 13 BQ-size holes in the area of the Agaura occurrence, for a total of 2,471 meters (Hillier, 1989). Relevant gold mineralization was intersected in 11 holes, which tested the main Agaura shear zone structure. Two holes, which were drilled to test a zone to the south failed to locate any significant mineralization.

1990-2014
No exploration was conducted between 1990 and 2014, due to Certificates of Pending Legal Proceedings that were attached to the claims of the Property.

2014
Richmond Minerals Inc. resumed exploration of the Property on June 04, 2014, by conducting a prospecting traverse in the area covered by the central core of claims of the Property (Nitescu et al., 2014), with the purpose of locating and sampling the historic Agaura and Cyril Knight gold occurrences. Follow-up prospecting work in the Agaura area was conducted in September, 2014 (Nitescu et al., 2015a) with the goal of obtaining new samples from the Agaura gold occurrence.

2015
Richmond Minerals Inc. contracted ClearView Geophysics to conduct in July, 2015 spectral induced polarization (IP)/ resistivity and magnetic surveys on a grid (Agaura East grid) that covers four claims (4275237, 4275238, 4275273, 4275274), immediately to the east of the Agaura gold occurrence. The geophysical surveys were successful in identifying a well-defined induced polarization/ resistivity anomaly characterized by high chargeability and high apparent resistivity extending at depth to at least 50 m and a prominent coincidental magnetic anomaly, having a northeast orientation and a strike length in excess of 825 meters. The details and the results of the geophysical work were reported by Jagodits (2016).

In August, 2015, the Company conducted prospecting work on claim 4275274 of the Property, in an area that lies between 0.6 and 1 km north-east of the Agaura outcrop, along strike with the structures hosting the Agaura occurrence (Nitescu et al., 2015b).

In September-October, 2016, Richmond Minerals Inc. drilled six NQ-size diamond drill holes on the Agaura East grid, for a total of 1,028.9 meters (Nitescu and Hawkins, 2016), in order to test for gold mineralization associated with the identified IP/ resistivity anomaly. Relevant gold mineralization was intersected in four holes, which tested the anomaly close to the western margin of the Agaura East grid, on grid lines 0+00E and 0+75E. Two holes drilled to test the IP / resistivity anomaly towards the north-east of the grid, on lines 4+50E and 5+25E, failed to intersect any significant gold mineralization.

Diamond Drilling Program and Assaying

The purpose of the second phase of drilling on the Agaura East grid was to continue testing the depth extent, the lateral continuity and the lateral extent of the eastward continuation of the Agaura gold mineralization, which was initially encountered in the 1989 drill holes (Hillier, 1989). The positions of the drill holes were selected based on the location of a well-defined induced polarization/ resistivity trend that was delineated by a survey conducted in July, 2015 on the Agaura East grid, immediately east of the Agaura gold occurrence (Jagodits, 2016; see also Map 3), as well as on the information obtained from the first phase of drilling on the Agaura East grid, conducted in September-October, 2015 (Nitescu and Hawkins, 2016).

Diamond drilling was contracted to Chenier Drilling Services Inc. from Val Caron, Ontario. Five NQ-size diamond drill holes were completed between July 08 and July 20, 2016, for a total drilled length of 1,121 m. Four holes (RS16-20, RS16-22, RS16-23, RS16-24) were drilled on

claim 4275237, and one hole (RS16-21) was drilled on claim 4275238 (Map 2). Drill hole RS16-21 was collared between Agaura East grid lines 0+00E and 0+75E, in order to test for the continuity of gold mineralization between these grid lines. Drill holes RS16-20 and RS16-22 were collared along Agaura East grid line 0+75E, north of Phase I hole RS15-19, to test for the extent and concentration of gold mineralization beneath this hole. Drill holes RS16-23 and RS16-24 were positioned between Agaura East grid lines 0+75E and 1+50E, to advance the investigation of the eastward extent of gold mineralization along the delineated induced polarization/ resistivity trend (Maps 2, 3).

Table 1 presents the collar UTM coordinates (determined with a hand-held GPS unit), collar azimuth, collar inclination, length and sampling intervals for each Phase II drill hole. The locations of the drill hole collars and the traces of the drill holes are shown in Map 2.

Table 1 – Drill Hole Summary (Phase II of drilling, Agaura East grid)

Hole	Collar Easting (m)	Collar Northing (m)	Collar Azimuth (deg)	Collar Inclination (deg)	Hole Length (m)	Sampled intervals (m)
RS16-20	372721	5303644	176.0	-43.6	245.05	20-39; 80.6-81; 98.83-123; 125.35-129.75; 132.8-179.42; 185.6-192
RS16-21	372678	5303641	173.5	-44.0	235.52	75.62-78; 96-97.63; 98.5-100; 115.6-138.2; 145.4-145.7; 147.17-147.96; 150-150.72; 155.8-156.2; 157.33-204; 209.28-211; 221-222; 234.09-234.66
RS16-22	372718	5303668	174.8	-44.1	223.44	116.23-117.35; 121.8-123.8; 130.57-136.5; 138.65-152.53; 153.65-154.39; 154.79-210.5; 214.15-219
RS16-23	372760	5303640	175.5	-43.1	189	57.2-58.2; 58.9-59.9; 61.65-63.1; 78.62-79.37; 117.78-154.7; 160.14-169.18
RS16-24	372762	5303680	180.6	-43.1	228	59-71.84; 132-132.7; 137.8-138.78; 158.06-223

Note: The values indicated for collar azimuth and collar inclination represent collar test survey values measured within the top few meters of the bedrock in each drill hole (see drill hole survey results in Appendix 1); the planned values for the azimuth and inclination of each drill hole were 180 degrees and -45 degrees, respectively.

The drilling program was supervised by Warren Hawkins, P.Eng. (Exploration Manager of Richmond Minerals Inc., currently residing at 1803-33 University Avenue, Toronto, Ontario, Canada, M5J 2S7), who was assisted by Bogdan Nitescu, P.Geo. (Geoscience Consultant and

Director of Richmond Minerals Inc., currently residing at 1504–5 Ann Street, Mississauga, Ontario, Canada, L5G 3E8). W. Hawkins and B. Nitescu were also responsible for core logging and sampling. Don Lashbrook was in charge of preparing/ maintaining the core logging facility and its equipment, and prepared the core for logging and sampling. The core cutting was carried out by Yvon Constant. Both Mr. Lashbrook and Mr. Constant worked as external contractors.

The core logging and sampling were completed at the Watershed Core Logging Facility, which is situated behind the Watershed Car & Truck stop on the south-eastern corner of the junction of Highways 144 and 560. A total of 408 core samples were collected for assaying. The core samples were obtained by cutting the drill core in half along its axis with a Vancon core saw. The length of the samples is in the range of 0.3 - 1.5 meters, with 81 % of the samples having a length of 1 ± 0.1 meters. The core samples were placed in clear plastic bags along with corresponding tags and were closed by stapling. Groups of ten sample bags were put in woven, rice-style plastic bags, which were secured with tamper-proof strings. The samples were shipped by commercial truck (Manitoulin Transport) to the Activation Laboratories Ltd. (Actlabs) facility in Sudbury, Ontario, on July 26, 2016, and were received at the destination on July 27, 2016. The sample tag numbers (including those for duplicate analyses and certified reference material samples) are: 154707-155000; 212001-212160.

The core samples were assayed for gold at the Actlabs facility in Sudbury (30 g fire assay with Atomic Absorbtion - AA - finish, with additional 30 g fire assay with Gravimetric finish in the case of samples exceeding 5 g/t, which is the upper detection limit of the AA finish). This laboratory is ISO 17025 accredited.

For the Quality Assurance and Quality Control of the assaying, duplicate analyses were requested for 15 samples and a total of 31 certified standard reference samples (standard blank samples and standards with two different gold concentrations) were introduced regularly in the sample stream (see Appendix 1). The standard reference materials were acquired from CDN Resource Laboratories Ltd. The Certificates of the standard reference materials are provided in Appendix 3. Actlabs also ran their own standards and duplicate analyses.

Results

The drill hole records, which include drill hole information, geological and sample logs and core sample assay results, are presented in Appendix 1. The Actlabs Certificate of Analysis and Assay Report are provided in Appendix 2. The geological units intersected in the drill holes of Phase II of drilling and the assay results are illustrated in Sections 1a, 2a and 3. Sections 1b and 2b include also the drill holes from Phase I of drilling that were drilled along or in the vicinity of those sections.

Relevant gold mineralization was encountered in all holes that were drilled in Phase II of drilling on the Agaura East grid (holes RS16-20 to RS16-24). The gold-bearing intervals are associated

with geological features in mafic to intermediate metavolcanic rocks that include areas of shear zone development, areas of intense carbonate alteration and areas of quartz veining, as well as with areas within or in the vicinity of a feldspar porphyry unit, which was intersected in four of the holes (RS16-20 to RS16-23; see Drill Hole Records in Appendix 1), similarly to the gold mineralization observed in the 1989 historic drill holes (Hillier, 1989) and in the Phase I drill holes (Nitescu and Hawkins, 2016). Table 2 summarizes the more significant gold-bearing intervals that were intersected.

Table 2 – Relevant Au-bearing Intervals in drill holes RS16-20, RS16-21, RS16-22, RS16-23, RS16-24

Hole No.	From (m)	To (m)	Width (m)	Grade (g/t Au)
RS16-20	125.35	129.75	4.40	0.61
	132.80	141.00	8.20	0.38
	145.00	178.00	33.00	1.26
including	166.00	173.00	7.00	4.11
and	168.00	169.00	1.00	7.64
and	171.00	172.00	1.00	11.30
RS16-21	115.60	135.00	19.40	0.90
including	127.85	135.00	7.15	2.05
and	133.00	134.00	1.00	7.55
	157.33	180.00	22.70	0.68
including	172.00	174.00	2.00	2.53
RS16-22	181.00	209.70	28.70	0.33
including	185.00	186.00	1.00	2.74
RS16-23	119.54	144.06	24.52	0.48
including	142.00	144.06	2.06	1.56
RS16-24	178.00	207.12	29.12	0.22
including	197.69	198.57	0.88	1.12

Note: Intervals reported in Table 2 represent core intersection length; true widths are not known.

Map 3 combines the information from the drilling plans for Phases I and II of drilling on the Agaura East grid with the interpretation of the spectral induced polarization/ resistivity and magnetometer survey conducted in July 2015, which was made by F.L. Jagodits (2016). On the basis of line to line correlation of the induced polarization/ resistivity data, Jagodits (2016) has outlined several chargeability/ apparent resistivity trends, the most prominent of which are the centrally located trends labeled RIP-1A and RIP-1B. Jagodits (2016) interpreted trend RIP-1A as the easterly continuation of an induced polarization trend delineated by an earlier survey that covers the Agaura gold showing (see also Jagodits, 2014), and therefore the anomalies

associated with trend RIP-1A are considered to be first priority drill targets. Drill holes RS15-14, RS15-15, RS15-16, RS15-19, RS16-20, RS16-21, RS16-22, RS16-23 and RS16-24 tested the eastern half of geophysical trend RIP-1A, between Agaura East grid easting coordinates 0+00E and 1+13E (see Map 3), and all intersected significant gold mineralization (see Table 2 in the current report and Table 2 in Nitescu and Hawkins, 2016). Drill holes RS15-17 and RS15-18 were drilled to test chargeability/ apparent resistivity anomalies associated with trend RIP-1B, on lines 4+50E and 5+25E of the Agaura East grid, respectively (Map 3), but did not intersect any significant Au mineralization (Nitescu and Hawkins, 2016).

Recommendations

It is recommended that a follow-up induced polarization/ resistivity survey be conducted on Agaura East grid lines 0+00E to 3+75E with adjacent receiver electrode separations ("a" parameter) of 50 m to 100 m. The role of this survey would be to obtain information in the area covered by the geophysical trend RIP-1A from deeper levels than those provided by the initial survey, which was conducted with an adjacent receiver electrode separation of 25 m (Jagodits, 2016). Such information would be relevant for deciding whether drill-testing for the continuation of gold mineralization at depth should be attempted underneath drill holes RS16-21, RS16-22 and RS16-24.

In addition, it is recommended that a new phase of drilling be conducted on the Agaura East grid to test the potential lateral continuation of gold mineralization in the eastern half of the chargeability/ apparent resistivity trend RIP-1A, in the interval between grid line 1+50E and grid line 3+75E.

References

Ayer, J.A. 1995. Precambrian geology, northern Swayze greenstone belt; Ontario Geological Survey, Report 297, 57p.

Barrie, C.Q. 1986. Report on an Airborne Magnetic and VLF-EM Survey, Raney and Rollo Townships, Porcupine Mining Division, Ontario, for Carlson Mines Ltd. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0015)

Bowman, M. 1983. Geophysical Report on the Carlson Mines Ltd., Ridley Lake Property, Rollo Township, Sudbury Mining Division. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0024)

Filo, J.K. 1983. Geological Report on the Ridley Lake Prospect in Rollo Township, Sudbury Mining Division, for Carlson Mines Ltd. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0024)

Gordon, J.B., Lovell, H.L., de Grijs, J. and Davie, R.F. 1979. Gold Deposits of Ontario. Part 2. Ontario Geological Survey, Mineral Deposits Circular 18, 253 p.

Heather, K.B and Shore, G.T. 1999. Geology, Rollo Lake, Swayze Greenstone Belt, Ontario. Geological Survey of Canada, Open File 3384b, scale 1:50,000

Hillier, D. 1989. Diamond Drilling Report on the Swayze Property of Black Gregor Explorations Ltd. and Carlson Mines Ltd. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0001)

Jackson, S.L. and Fyon, A.J. 1991. The western Abitibi Subprovince in Ontario; in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p.404-482.

Jagodits, F.L. 2016. Report on the interpretation of spectral induced polarization/ resistivity and ground magnetic surveys, Agaura East Grid, Ridley Lake Property, Rollo Township. (Submitted to the Ontario Ministry of Northern Development and Mines on behalf of Richmond Minerals Inc.)

Nitescu, B., Hawkins, W., Carter G. 2014. Report on prospecting work conducted on the Ridley Lake (Swayze) Property in the area of the Agaura and Cyril Knight gold occurrences, Rollo Township. (Submitted to the Ontario Ministry of Northern Development and Mines on behalf of Richmond Minerals Inc.)

Nitescu, B., Hawkins, W., Currah L. 2015a. Report on prospecting work conducted on claims 633593, 853165 and 4270945 of the Ridley Lake (Swayze) Property, Rollo and Raney Townships. (Submitted to the Ontario Ministry of Northern Development and Mines on behalf of Richmond Minerals Inc.)

Nitescu, B., Hawkins, W., Currah L. 2015b. Report on prospecting work conducted on claims 853165, 4274854, 4274865, 4274870 and 4275274 of the Ridley Lake (Swayze) Property, Rollo and Raney Townships. (Submitted to the Ontario Ministry of Northern Development and Mines on behalf of Richmond Minerals Inc.)

Nitescu, B. and Hawkins, W. 2016. Report on diamond drilling conducted on claims 4275237, 4275238 and 4275274 of the Ridley Lake (Swayze) Property, Rollo and Raney Townships. (Submitted to the Ontario Ministry of Northern Development and Mines on behalf of Richmond Minerals Inc.)

Phendler, R.W. 1980. Report on the Ridley Lake Property, Sudbury Mining Division, Ontario, for Carlson Mines Ltd. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0027)

Phendler, R.W. 1982. Report on the Ridley Lake Property, Porcupine Mining Division, Ontario, for Carlson Mines Ltd. (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI File: 41O15SE0020)

Platt, R.J. 1986. Report of Work submissions (Available in the Assessment Work Database of the Ontario Ministry of Northern Development and Mines; AFRI Files: 41O15NE5003, 41O15NE5005, 41O15NE5006, 41O15SE0018)

Rickaby, H.C. 1935. Geology of the Swayze Gold Area. Ontario Department of Mines, Annual Report, v. 43, part 3, pp. 1-36. (Available in the Ontario Geological Survey Publications Database of the Ontario Ministry of Northern Development and Mines; Publication No: ARV43-03.001)

Thurston, P.C., Siragusa, G.M. and Sage, R.P. 1977. Geology of the Chapleau Area, Districts of Algoma, Sudbury and Cochrane. Ontario Department of Mines, Geoscience Report 157, 293p. (Available in the Ontario Geological Survey Publications Database of the Ontario Ministry of Northern Development and Mines; Publication No: M2352)

Signatures of the Authors

_____

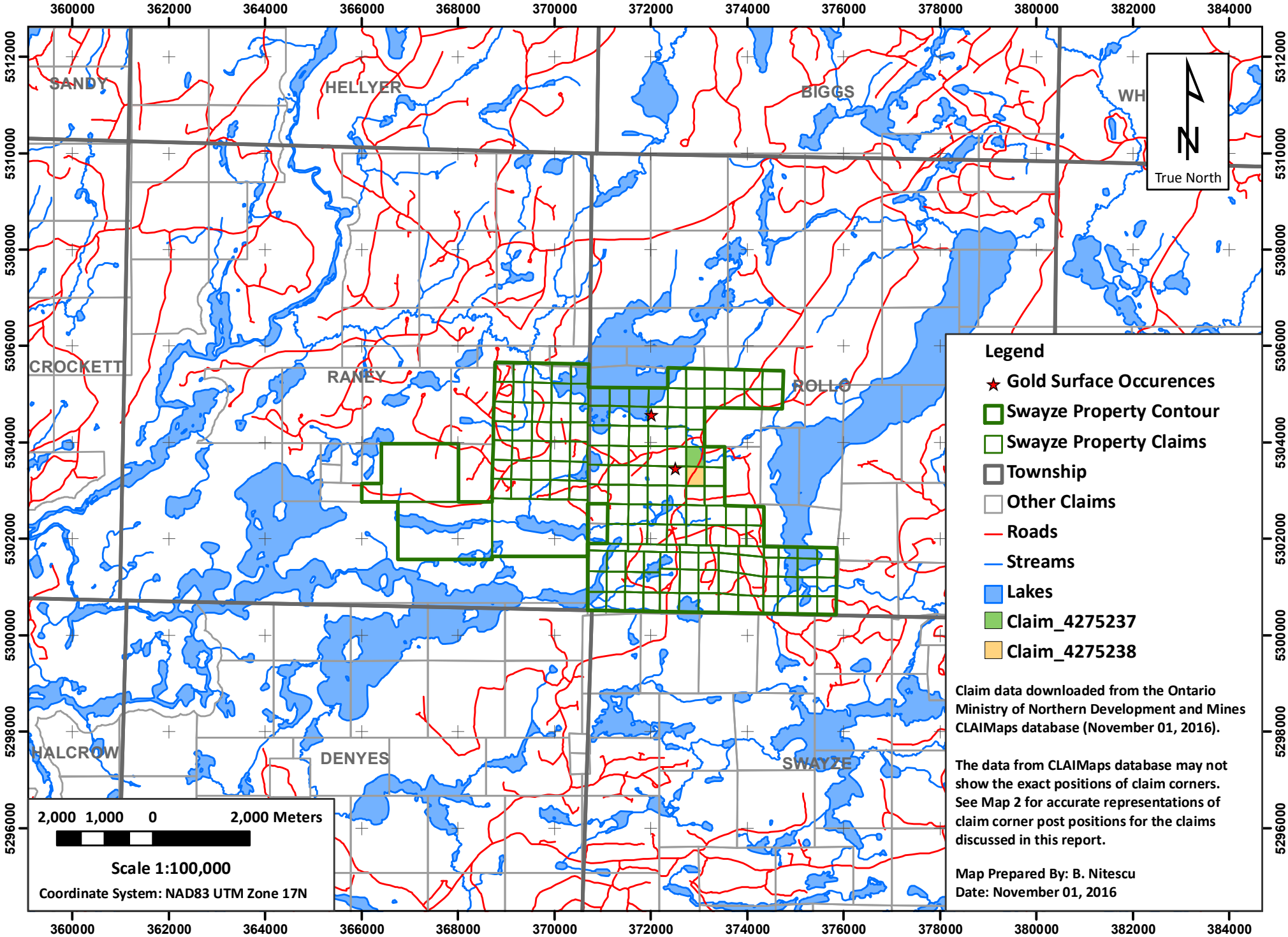
Bogdan Nitescu, P.Geo.

_____

Warren Hawkins, P.Eng.

RICHMOND MINERALS INC.

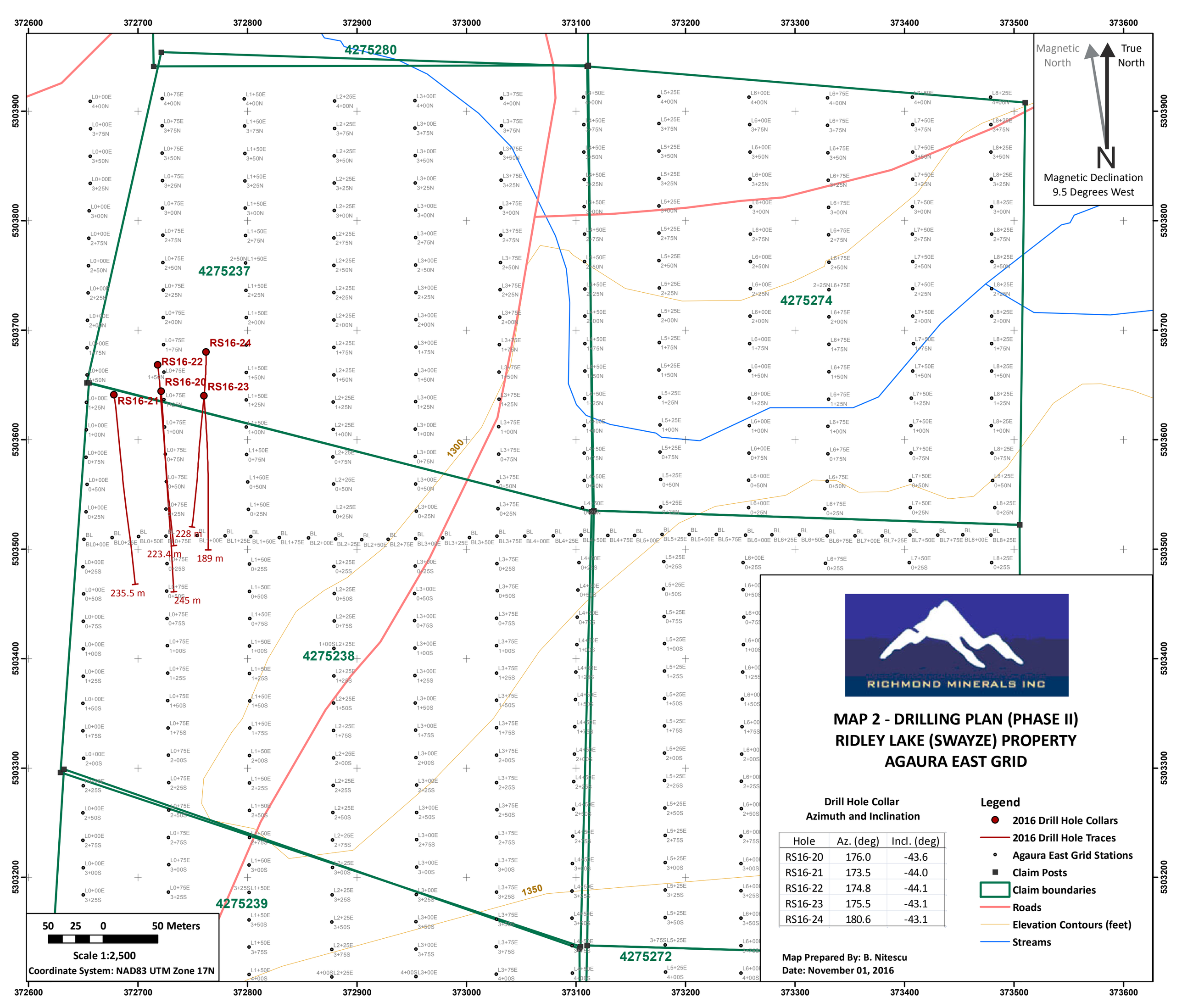
Map 1 - Ridley Lake (Swayze) Property and Location of Claims 4275237, 4275238

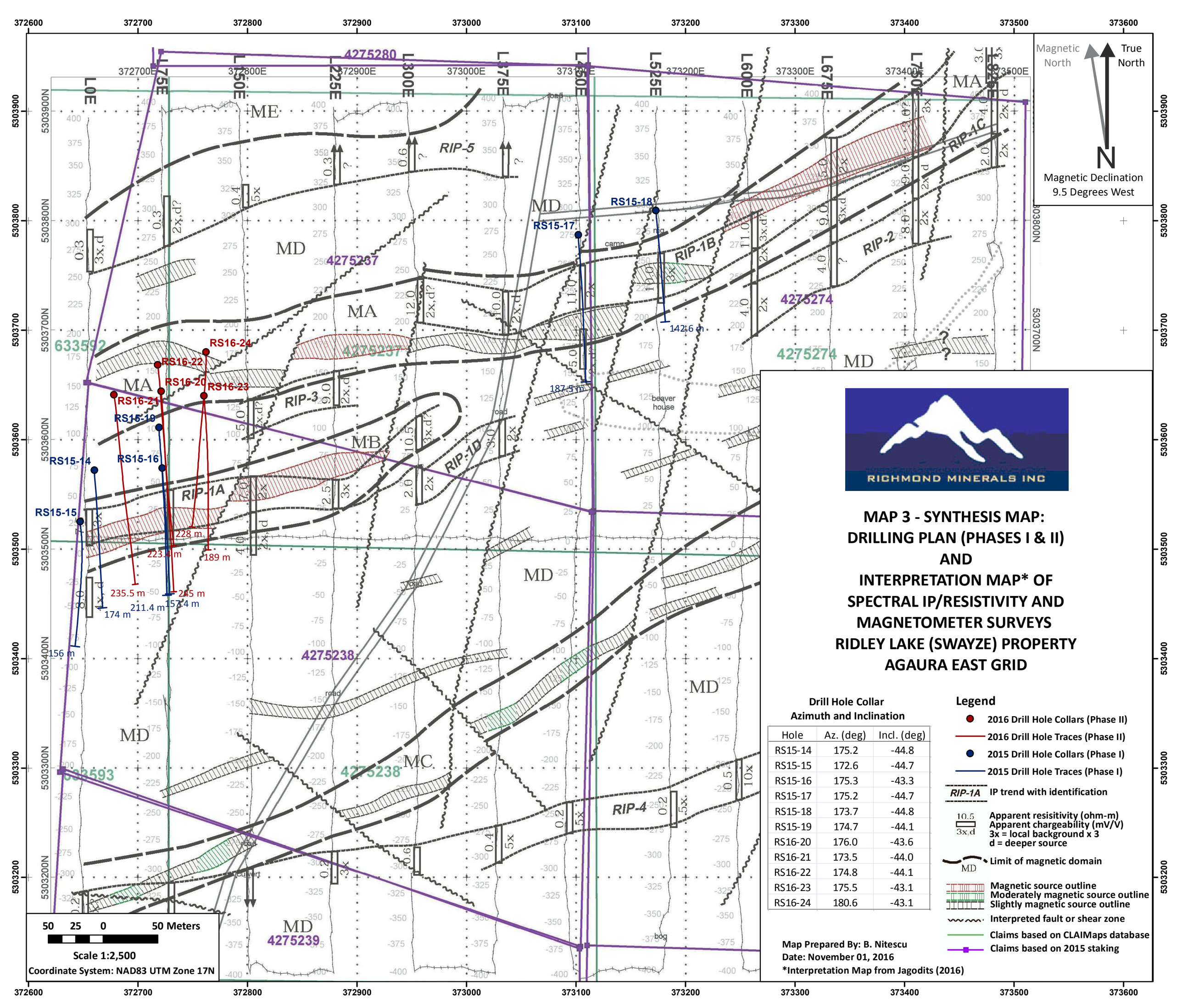


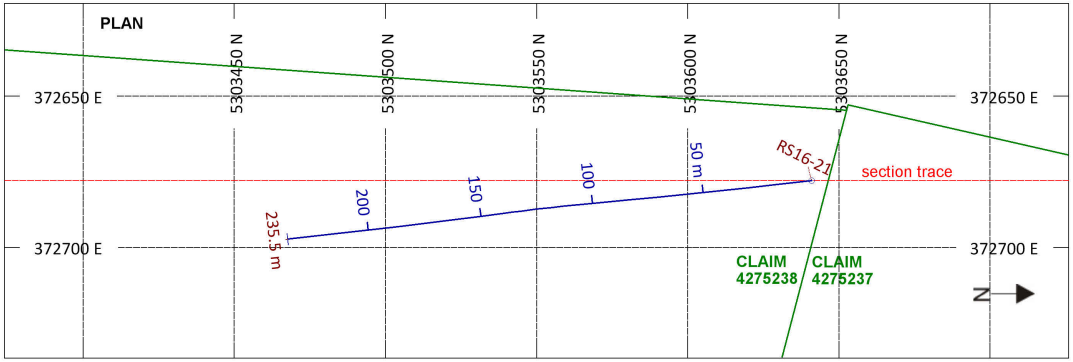
Claim data downloaded from the Ontario Ministry of Northern Development and Mines CLAIMaps database (November 01, 2016).

The data from CLAIMaps database may not show the exact positions of claim corners. See Map 2 for accurate representations of claim corner post positions for the claims discussed in this report.

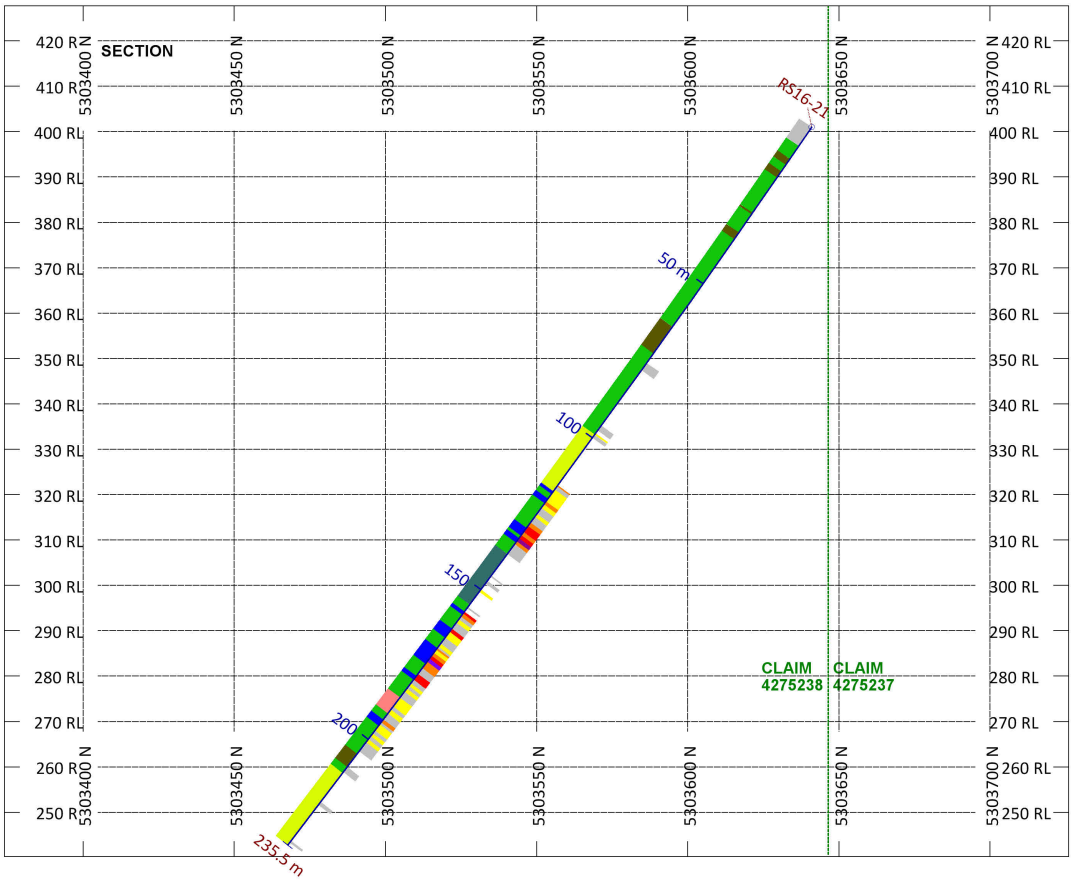
Map Prepared By: B. Nitescu
Date: November 01, 2016


372600
372700
372800
372900
373000
373100
373200
373300
373400
373500
373600
5303900
5303800
5303700
5303600
5303500
5303400
5303300
5303200
4275280
4275237
4275274
4275238
4275239
4275272
1300
1350
RS16-24
RS16-22
RS16-20
RS16-23
RS16-21
228 m
223.4 m
189 m
235.5 m
245 m
Magnetic North
True North
N
Magnetic Declination
9.5 Degrees West
50 25 0 50 Meters
Scale 1:2,500
Coordinate System: NAD83 UTM Zone 17N
RICHMOND MINERALS INC
MAP 2 - DRILLING PLAN (PHASE II)
RIDLEY LAKE (SWAYZE) PROPERTY
AGAURA EAST GRID
Drill Hole Collar
Azimuth and Inclination
Hole | Az. (deg) | Incl. (deg)
RS16-20 | 176.0 | -43.6
RS16-21 | 173.5 | -44.0
RS16-22 | 174.8 | -44.1
RS16-23 | 175.5 | -43.1
RS16-24 | 180.6 | -43.1
Legend
2016 Drill Hole Collars
2016 Drill Hole Traces
Agaura East Grid Stations
Claim Posts
Claim boundaries
Roads
Elevation Contours (feet)
Streams
Map Prepared By: B. Nitescu
Date: November 01, 2016


Magnetic North
True North
N
Magnetic Declination
9.5 Degrees West
RICHMOND MINERALS INC
MAP 3 - SYNTHESIS MAP:
DRILLING PLAN (PHASES I & II)
AND
INTERPRETATION MAP* OF
SPECTRAL IP/RESISTIVITY AND
MAGNETOMETER SURVEYS
RIDLEY LAKE (SWAYZE) PROPERTY
AGAURA EAST GRID
Drill Hole Collar
Azimuth and Inclination
Hole | Az. (deg) | Incl. (deg)
RS15-14 | 175.2 | -44.8
RS15-15 | 172.6 | -44.7
RS15-16 | 175.3 | -43.3
RS15-17 | 175.2 | -44.7
RS15-18 | 173.7 | -44.8
RS15-19 | 174.7 | -44.1
RS16-20 | 176.0 | -43.6
RS16-21 | 173.5 | -44.0
RS16-22 | 174.8 | -44.1
RS16-23 | 175.5 | -43.1
RS16-24 | 180.6 | -43.1
Legend
2016 Drill Hole Collars (Phase II)
2016 Drill Hole Traces (Phase II)
2015 Drill Hole Collars (Phase I)
2015 Drill Hole Traces (Phase I)
RIP-1A IP trend with identification
10.5 / 3x,d Apparent resisitivity (ohm-m)
Apparent chargeability (mV/V)
3x = local background x 3
d = deeper source
MD Limit of magnetic domain
Magnetic source outline
Moderately magnetic source outline
Slightly magnetic source outline
Interpreted fault or shear zone
Claims based on CLAIMaps database
Claims based on 2015 staking
Map Prepared By: B. Nitescu
Date: November 01, 2016
*Interpretation Map from Jagodits (2016)
50 25 0 50 Meters
Scale 1:2,500
Coordinate System: NAD83 UTM Zone 17N



RS16-21
COLLAR AZ. (DEG) 173.5
COLLAR INCL. (DEG) -44.0



RICHMOND MINERALS INC

LITHOLOGY (LEFT SIDE)	PAT	LABEL	DESCRIPTION
		0	overburden
		1	felsic to intermeiate meta-volcanics
		2	intermediate to mafic meta-volcanics
		2i	intermediate to mafic intrusive
		3	altered/ brecciated meta-volcanics, quartz veins
		4	intermediate to mafic/ diabase dyke
		5	feldspar porphyry

ASSAYED INTERVALS AND ASSAY VALUES (RIGHT SIDE)	PAT	LABEL	DESCRIPTION
		I0	0-0.09 g/t
		I1	0.1-0.49 g/t
		I2	0.5-0.99 g/t
		I3	1.0-1.99 g/t
		I4	2.0-2.99 g/t
		I5	3.0-3.99 g/t
		I7	> 5 g/t

SECTION SPECS:

REF. PT. E, N	372678 m	5303550 m
EXTENTS	352 m	187.5 m
SECTION TOP, BOT	427.8 m	240.2 m
TOLERANCE +/-	200 m	
VERTICAL EXAG.	1.5	

Section Prepared By: B. Nitescu Date: October 31, 2016

SCALE 1 : 2500

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 17N

AZIMUTH = 0°

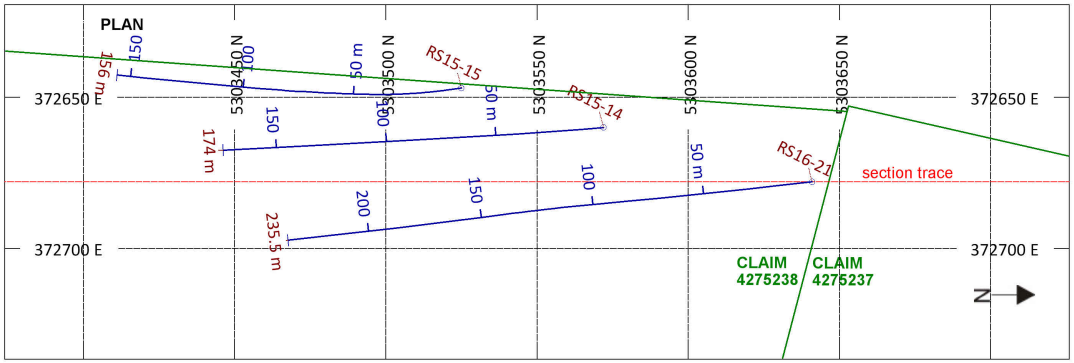
N W E S

SECTION 1a

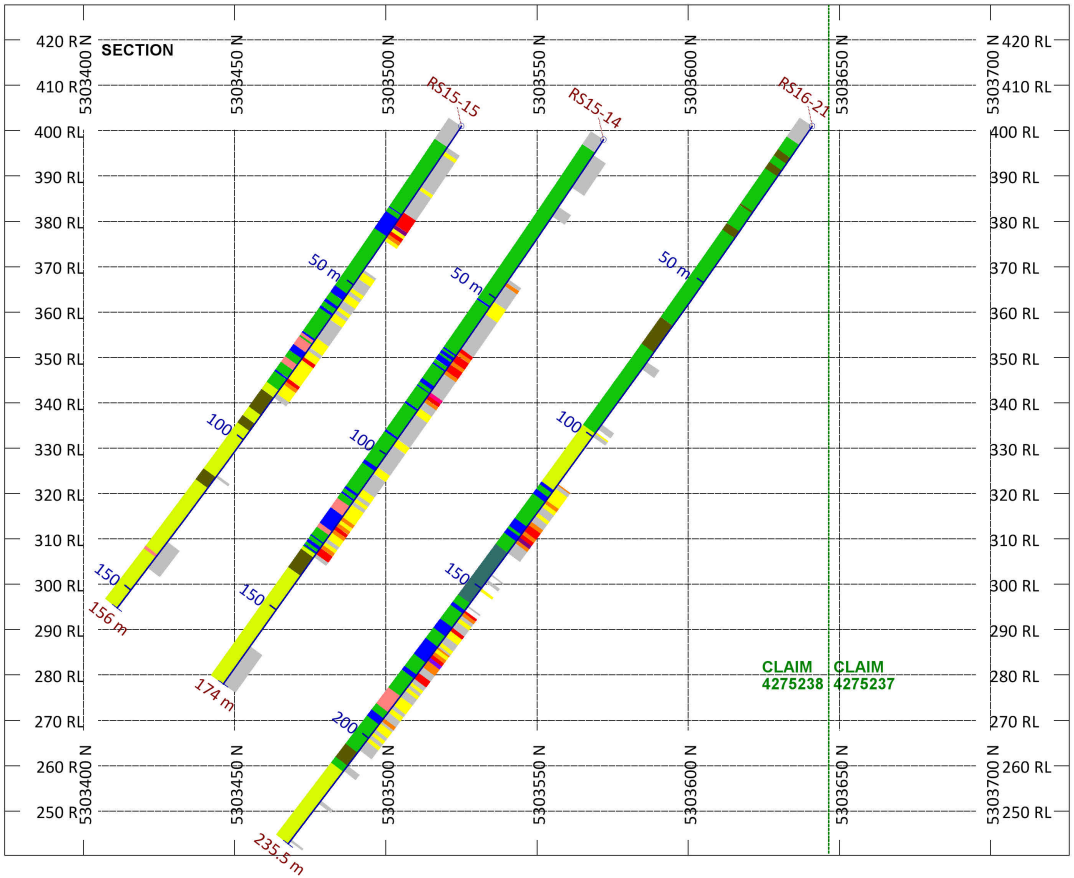
DRILL HOLE RS16-21

RIDLEY LAKE (SWAYZE) PROPERTY

AGAURA EAST GRID (SECTION 0+25E)



	RS15-15	RS15-14	RS16-21
COLLAR AZ. (DEG)	172.6	175.2	173.5
COLLAR INCL. (DEG)	-44.7	-44.8	-44.0



RICHMOND MINERALS INC

LITHOLOGY (LEFT SIDE)	PAT	LABEL	DESCRIPTION
		0	overburden
		1	felsic to intermeiate meta-volcanics
		2	intermediate to mafic meta-volcanics
		2i	intermediate to mafic intrusive
		3	altered/ brecciated meta-volcanics, quartz veins
		4	intermediate to mafic/ diabase dyke
		5	feldspar porphyry

ASSAYED INTERVALS AND ASSAY VALUES (RIGHT SIDE)	PAT	LABEL	DESCRIPTION
		I0	0-0.09 g/t
		I1	0.1-0.49 g/t
		I2	0.5-0.99 g/t
		I3	1.0-1.99 g/t
		I4	2.0-2.99 g/t
		I5	3.0-3.99 g/t
		I7	> 5 g/t

SECTION SPECS:

REF. PT. E, N	372678 m	5303550 m
EXTENTS	352 m	187.5 m
SECTION TOP, BOT	427.8 m	240.2 m
TOLERANCE +/-	200 m	
VERTICAL EXAG.	1.5	

Section Prepared By: B. Nitescu Date: October 31, 2016

SCALE 1 : 2500

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 17N

AZIMUTH = 0°

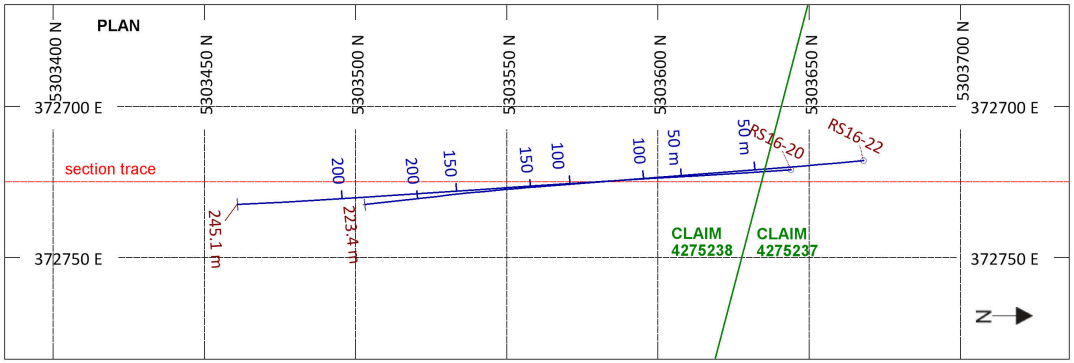
N W E S

SECTION 1b

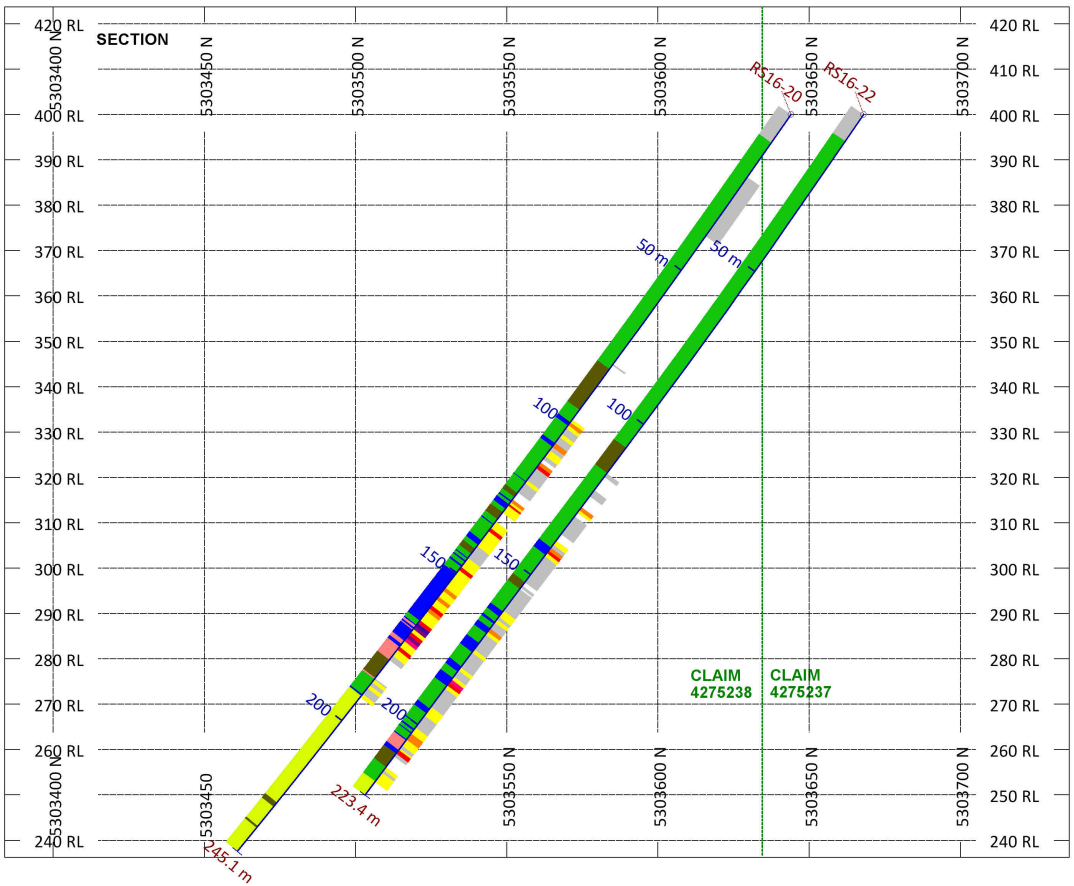
DRILL HOLES RS15-14, RS15-15, RS16-21

RIDLEY LAKE (SWAYZE) PROPERTY

AGAURA EAST GRID (SECTION 0+25E)



	RS16-20	RS16-22
COLLAR AZ. (DEG)	176.0	174.8
COLLAR INCL. (DEG)	-43.6	-44.1



RICHMOND MINERALS INC

LITHOLOGY (LEFT SIDE)	PAT	LABEL	DESCRIPTION
		0	overburden
		1	felsic to intermediate meta-volcanics
		2	intermediate to mafic meta-volcanics
		3	altered/ brecciated meta-volcanics, quartz veins
		4	intermediate to mafic/ diabase dyke
		5	feldspar porphyry
		6	meta-sedimentary rock

ASSAYED INTERVALS AND ASSAY VALUES (RIGHT SIDE)	PAT	LABEL	DESCRIPTION
		I0	0-0.09 g/t
		I1	0.1-0.49 g/t
		I2	0.5-0.99 g/t
		I3	1.0-1.99 g/t
		I4	2.0-2.99 g/t
		I5	3.0-3.99 g/t
		I6	4.0-4.99 g/t
		I7	> 5 g/t

SECTION SPECS:

REF. PT. E, N	372725 m	5303560 m
EXTENTS	352 m	187.5 m
SECTION TOP, BOT	423.8 m	236.2 m
TOLERANCE +/-	200 m	
VERTICAL EXAG.	1.5	

Section Prepared By: B. Nitescu Date: October 31, 2016

SCALE 1 : 2500

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 17N

AZIMUTH = 0°

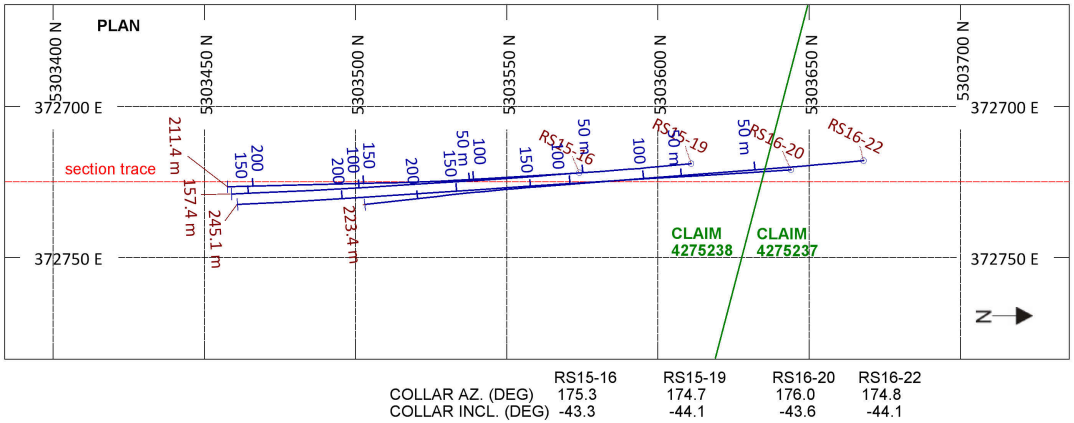
N W E S

SECTION 2a

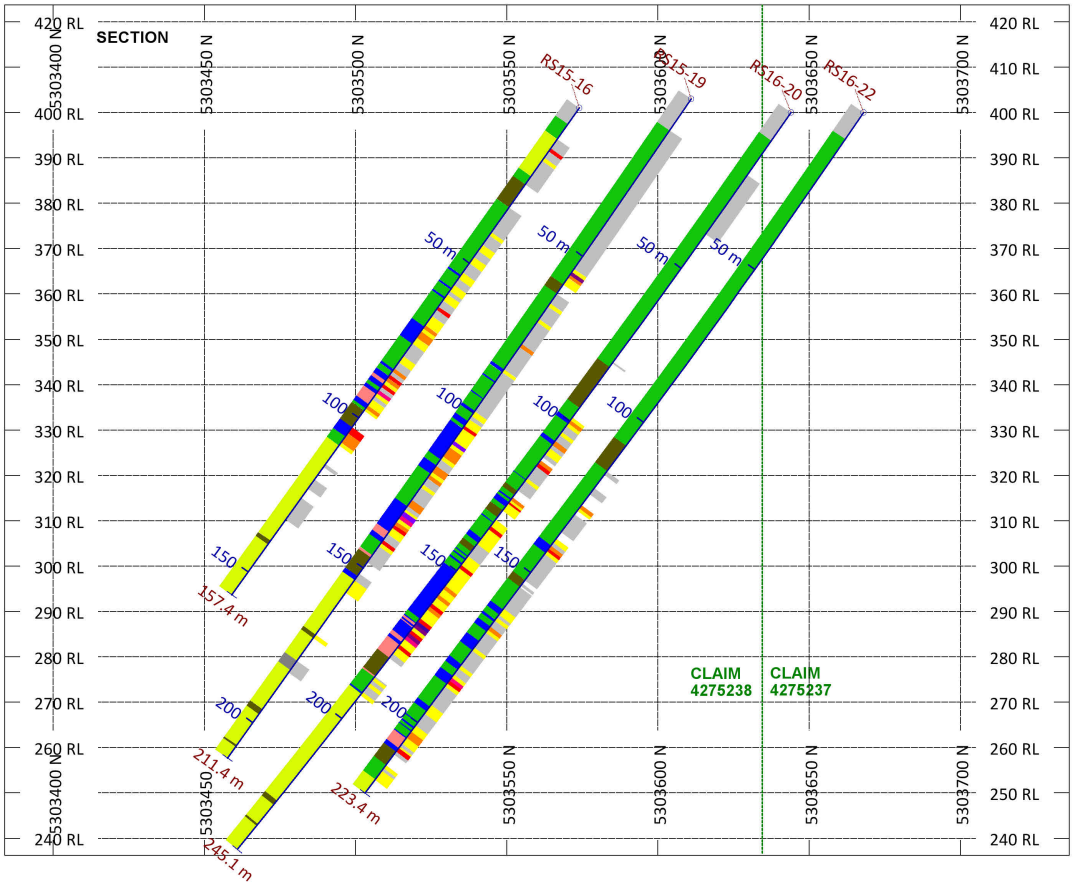
DRILL HOLES RS16-20, RS16-22

RIDLEY LAKE (SWAYZE) PROPERTY

AGAURA EAST GRID (SECTION 0+75E)



	RS15-16	RS15-19	RS16-20	RS16-22
COLLAR AZ. (DEG)	175.3	174.7	176.0	174.8
COLLAR INCL. (DEG)	-43.3	-44.1	-43.6	-44.1



LITHOLOGY (LEFT SIDE)	PAT	LABEL	DESCRIPTION
		0	overburden
		1	felsic to intermediate meta-volcanics
		2	intermediate to mafic meta-volcanics
		3	altered/ brecciated meta-volcanics, quartz veins
		4	intermediate to mafic/ diabase dyke
		5	feldspar porphyry
		6	meta-sedimentary rock

ASSAYED INTERVALS AND ASSAY VALUES (RIGHT SIDE)	PAT	LABEL	DESCRIPTION
		I0	0-0.09 g/t
		I1	0.1-0.49 g/t
		I2	0.5-0.99 g/t
		I3	1.0-1.99 g/t
		I4	2.0-2.99 g/t
		I5	3.0-3.99 g/t
		I6	4.0-4.99 g/t
		I7	> 5 g/t

SECTION SPECS:

REF. PT. E, N	372725 m	5303560 m
EXTENTS	352 m	187.5 m
SECTION TOP, BOT	423.8 m	236.2 m
TOLERANCE +/-	200 m	
VERTICAL EXAG.	1.5	

Section Prepared By: B. Nitescu Date: October 31, 2016

SCALE 1 : 2500

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 17N

AZIMUTH = 0°

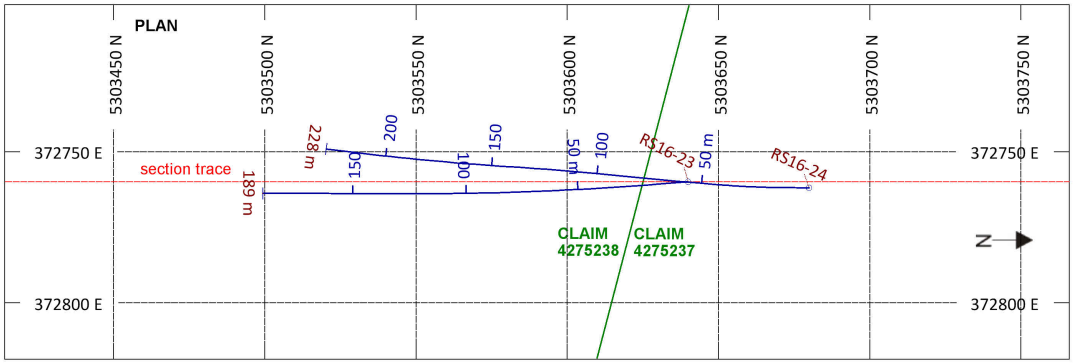
N W E S

SECTION 2b

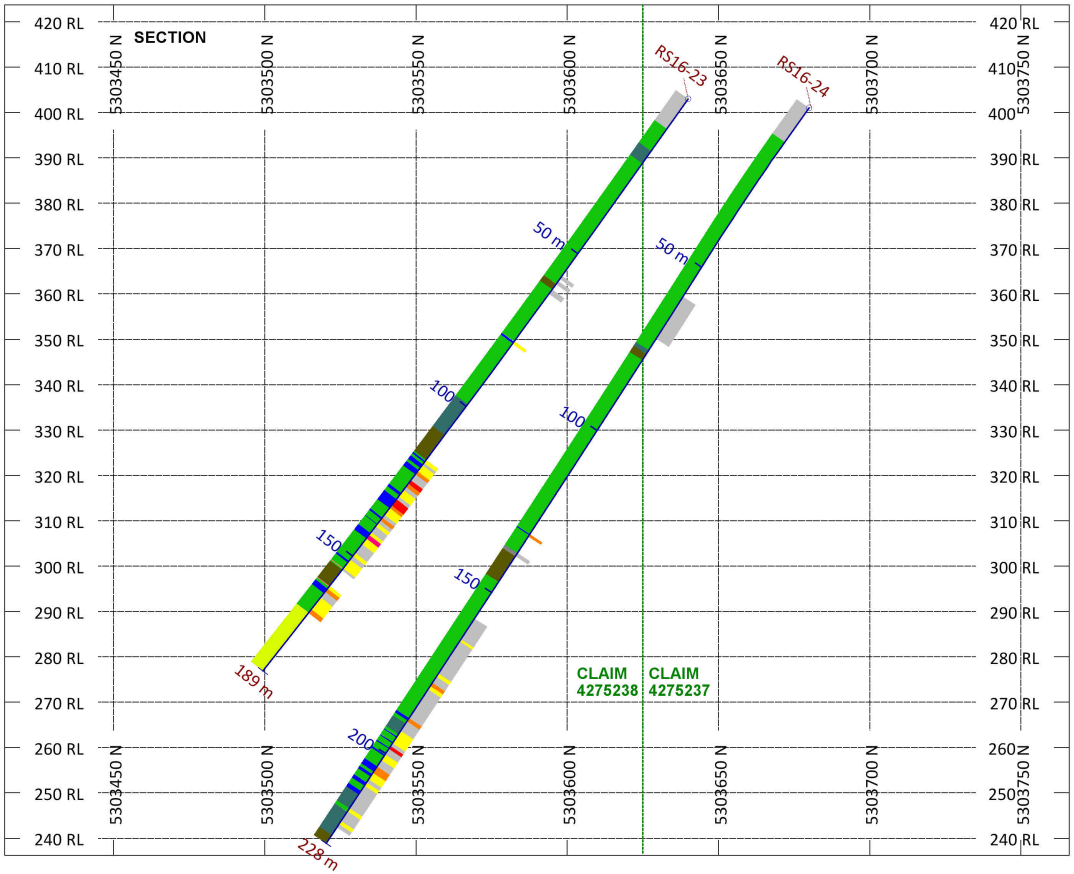
DRILL HOLES RS15-16, RS15-19, RS16-20, RS16-22

RIDLEY LAKE (SWAYZE) PROPERTY

AGAURA EAST GRID (SECTION 0+75E)



	RS16-23	RS16-24
COLLAR AZ. (DEG)	175.5	180.6
COLLAR INCL. (DEG)	-43.1	-43.1



RICHMOND MINERALS INC

LITHOLOGY (LEFT SIDE)	PAT	LABEL	DESCRIPTION
		0	overburden
		1	felsic to intermediate meta-volcanics
		2	intermediate to mafic meta-volcanics
		2i	intermediate to mafic intrusive
		3	altered/ brecciated meta-volcanics, quartz veins
		4	intermediate to mafic/ diabase dyke
		5	feldspar porphyry
		6	meta-sedimentary rock

ASSAYED INTERVALS AND ASSAY VALUES (RIGHT SIDE)	PAT	LABEL	DESCRIPTION
		I0	0-0.09 g/t
		I1	0.1-0.49 g/t
		I2	0.5-0.99 g/t
		I3	1.0-1.99 g/t
		I4	2.0-2.99 g/t

SECTION SPECS:

REF. PT. E, N	372760 m	5303590 m
EXTENTS	352 m	187.5 m
SECTION TOP, BOT	423.8 m	236.2 m
TOLERANCE +/-	200 m	
VERTICAL EXAG.	1.5	

Section Prepared By: B. Nitescu Date: October 31, 2016

SCALE 1 : 2500

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 17N

AZIMUTH = 0°

N W E S

SECTION 3

DRILL HOLES RS16-23, RS16-24

RIDLEY LAKE (SWAYZE) PROPERTY

AGAURA EAST GRID (SECTION 1+10E)

APPENDIX 1

DRILL HOLE RECORDS

REPORT ON
DIAMOND DRILLING CONDUCTED ON
CLAIMS 4275237 AND 4275238
OF THE RIDLEY LAKE (SWAYZE) PROPERTY
Work Period
July 06 – July 26, 2016

Richmond Minerals Inc.

DIAMOND DRILL RECORD

Ridley Lake (Swayze) Property

DRILL HOLE RS16-20

GRID LOCATION East	L0+72E	*COMMENCED*	July 8, 2016
GRID LOCATION North	1+33N	*COMPLETED*	July 11, 2016
SURVEYED	hand-held GPS	*DRILLING CO.*	Chenier Drillling Services Inc.
LENGTH (m)	245.05	*CORE SIZE*	NQ
BEARING (deg)	180 (planned value)	*CASING LEFT (m)*	9
INCLINATION (deg)	-45 (planned value)	*LOGGED BY*	W. Hawkins & B. Nitescu
COLLAR ELEVATION (m)	400	*DATE(S) LOGGED*	July 10-12, 2016
COLLAR EASTING	372721	*CORE LOCATION*	Watershed Core Logging Facility
COLLAR NORTHING	5303644	*DDH surveys:*	Reflex EZ-Shot
Notes:	NAD 83 UTM Zone 17N	*REC. SIGNED BY*	B. Nitescu (page 6)
TOWNSHIP	Rollo		
CLAIM NUMBER	4275237		

SURVEY DATA

Depth (m)	Inclination (deg)	Azimuth (deg)	Azimuth True North (correction -9.5 deg)	MAG (nT)
18.00	-43.6	185.5	176.0	55635
44.00	-43.0	186.4	176.9	55679
141.00	-41.0	185.4	175.9	55609
195.00	-40.4	186.0	176.5	55462
236.00	-39.5	186.5	177.0	55576

DRILL HOLE RS16-20

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
	9.00	9.00	overburden	material of glacial origin (granitic boulders) and metavolcanic rock subcrop						
9.00	79.25	70.25	metavolcanic rock (intermediate)	medium green-grey, foliated / sheared, fine-grained , with quartz-carbonate-(-epidote) veins, generally at 45 degrees to core axis, with some veins up to 70 degrees to core axis; some foliation surfaces with hematite; alteration: chlorite, epidote, calcite, +/- hematite; rock breaks easily along foliation planes; 17.10-21.66 m: numerous intervals of strongly broken rock, in some instances reduced to rubble; 9-20 m: trace to 1% pyrite - fine (sub-mm) sporadic grains; 20-39 m: gradational increase in pyrite mineralization to 1-2%; fine anhedral to coarser (up to 2-3 mm) crystals (anhedral along the foliation planes to cubic); rest of rock interval contains trace pyrite	**154707**	20.00	21.00	1.00	< 5	
					154708	21.00	22.00	1.00	< 5	
					154709	22.00	23.00	1.00	< 5	
					154710	duplicate			< 5	
					154711	23.00	24.00	1.00	< 5	
					154712	24.00	25.00	1.00	< 5	
					154713	25.00	26.00	1.00	< 5	
					154714	26.00	27.00	1.00	< 5	
					154715	27.00	28.00	1.00	< 5	
					154716	28.00	29.00	1.00	< 5	
					154717	29.00	30.00	1.00	< 5	
					154718	30.00	31.00	1.00	< 5	
					154719	31.00	32.00	1.00	< 5	
					154720	standard GS-3L			3260	
					154721	32.00	33.00	1.00	< 5	
					154722	33.00	34.00	1.00	< 5	
					154723	34.00	35.00	1.00	< 5	
					154724	35.00	36.00	1.00	< 5	
					154725	36.00	37.00	1.00	< 5	
					154726	37.00	38.00	1.00	< 5	
					154727	38.00	39.00	1.00	< 5	
79.25	80.60	1.35	metavolcanic rock (intermediate)	rock has pervasive calcite alteration with some vuggy intervals and some rubble intervals; rock is barren of mineralization						
80.60	82.30	1.70	metavolcanic rock (intermediate to mafic)	medium to dark green, foliated rock with calcite-quartz and epidote veins, with a few veins containing also hematite; 80.60-81 m: sheared rock with bands of carbonate alteration and stringers of pyrite mineralization in thin sub-mm stringers and weak disseminations (3-5%); for the rest of unit interval the rock is barren of visible mineralization	**154728**	80.60	81.00	0.40	74	
82.30	95.72	13.42	diabase dike	broken, medium-grained, at the lower contact rock becomes fine-grained and the contact is gradational; strong chloritic alteration; trace pyrite content 89.85-90.60 m: interval of mafic metavolcanic rock, sheared, with quartz-carbonate--(hematite) veins						
95.72	98.80		metavolcanic rock (intermediate to mafic)	dark grey, fine-grained, weak foliation, with mostly thin sub-mm calcite-quartz -(epidote) veins and overall pyrite content up to 1%						
98.80	123.30	24.50	metavolcanic rock (intermediate to mafic)	sheared with pervasive carbonate alteration at 45 degrees to core axis; variable pyrite content throughout the interval up to 10%; intervals of quartz veining and silicification; 99.80-100.90 m: silicified interval with irregular quartz veins and stringers of	**154729**	98.83	99.80	0.97	387	
					154730	blank BL-10			< 5	
					154731	99.80	100.74	0.94	888	
					154732	100.74	101.68	0.94	146	

DRILL HOLE RS16-20

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				pyrite mineralization and bands of carbonate alteration 30-40 degrees to core axis, sharp contacts at same angles;	**154733**	101.68	102.70	1.02	21	
					154734	102.70	103.60	0.90	14	
				106.7-107.8 m - interval with 5-10% pyrite mineralization (fine to 3mm crystals, anhedral to euhedral, disseminations, stringers and blebs);	**154735**	103.60	104.60	1.00	193	
					154736	104.60	105.60	1.00	14	
				111.4-113.4 m: texturally, rock is more massive, with fewer veins; several epidote-quartz veins are conspicuous;	**154737**	105.60	106.60	1.00	97	
					154738	106.60	107.90	1.30	628	
				starting at 113.4 m: intervals of pyrite mineralization 3-5% alternating with intervals with less pyrite content (down to trace);	**154739**	107.90	109.00	1.10	17	
					154740	duplicate			21	
				119.51 m - 13 cm interval of hematized, silicified and possible weak sericitization, with 10-15% pyrite;	**154741**	109.00	110.00	1.00	188	
					154742	110.00	111.00	1.00	111	
				120-123.05 m: dark green-grey, weakly foliated / sheared, fine-grained, with up to cm-scale veins of epidote, calcite and occasional hematite alteration and largely barren of pyrite	**154743**	111.00	112.00	1.00	14	
					154744	112.00	113.00	1.00	12	
					154745	113.00	114.00	1.00	871	
					154746	114.00	115.00	1.00	1690	
					154747	115.00	116.00	1.00	29	
					154748	116.00	117.00	1.00	10	
					154749	117.00	118.00	1.00	5	
					154750	standard GS-1M			1130	
					154751	118.00	119.00	1.00	10	
					154752	119.00	120.00	1.00	358	
					154753	120.00	121.00	1.00	9	
					154754	121.00	122.00	1.00	8	
					154755	122.00	123.00	1.00	14	
123.30	124.60	1.30	dike	medium-grained diabase dike, with sharp upper and lower contacts; chlorite and epidote alteration, barren of mineralization						
124.60	129.73	5.13	metavolcanic rock (intermediate to mafic)	sheared, fine-grained with pervasive quart-carbonate veining, with intervals of hematized, silicified rock and strong pyrite mineralization 10-15%	**154756**	125.35	126.28	0.93	619	
					154757	126.28	126.90	0.62	178	
				127.45-127.85 m: strongly silicified, hematized, carbonatized interval, pyrite mineralization 10-15%	**154758**	126.90	127.45	0.55	1740	
					154759	127.45	128.50	1.05	420	
				127.85-128.48 m: quartz vein with intervals of volcanic wall rock material with sericite, chlorite and carbonate, that are strongly mineralized; overall pyrite content up to 15%	**154760**	standard GS-3L			3140	
					154761	128.50	129.75	1.25	497	
129.73	132.05	2.32	diabase dike	fine to medium-grained, weakly chloritized, sharp upper and lower contacts at 50 degrees to core axis; barren of mineralization						
132.05	139.05	7.00	metavolcanic rock (intermediate)	sheared/ foliated 40-50 degrees to core axis, quartz-carbonate(-albite) stringers and veins	**154762**	132.80	134.00	1.20	306	
					154763	134.00	135.00	1.00	229	
				132.83-134 m: intervals of coarse grained sulfide mineralization with bands of hematite alteration, up to 15% pyrite, typically euhedral crystals;	**154764**	135.00	136.00	1.00	1360	
					154765	136.00	137.00	1.00	106	
				134.45-135.50 m: bands of coarse-grained sulfide mineralization with quartz veining, 5-10% pyrite, typically euhedral crystals	**154766**	137.00	138.00	1.00	150	
					154767	138.00	139.00	1.00	368	
				135.35-139.05 m: bands of fine to coarse-grained sulfide mineralization with						

DRILL HOLE RS16-20

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				occasional cm-scale quartz veining, hematized and mineralized margins, overall pyrite mineralization 3-5%						
139.05	141.92	2.87	metavolcanic rock (intermediate)	rock is intruded by centimeter- and decimeter-scale quartz-veins and has intervals of intense pyrite mineralization (fine to coarse, up to 35%) with stringers, blebs, disseminations and isolated crystals; there are patches of silicification with albite, hematite and possible sericite alteration (smoky, yellowish appearance)	**154768**	139.00	140.00	1.00	232	
					154769	140.00	141.00	1.00	342	
					154770	blank BL-10			< 5	
					154771	141.00	142.00	1.00	67	
141.92	143.65	1.73	dike	fine-grained mafic dyke, sharp upper and lower contacts at approx. 90 degrees to core axis; frequent, thin, randomly oriented quartz-carbonate veins with stringers of pyrite mineralization	**154772**	142.00	143.00	1.00	7	
					154773	143.00	144.00	1.00	11	
143.65	150.26	6.61	metavolcanic rock (intermediate)	rock similar to unit above dike	**154774**	144.00	145.00	1.00	27	
					154775	145.00	146.00	1.00	231	
					154776	146.00	147.00	1.00	200	
					154777	147.00	148.00	1.00	265	
					154778	148.00	149.00	1.00	1490	
					154779	149.00	150.00	1.00	119	
					154780	duplicate			172	
150.26	167.60	17.34	metavolcanic rock (intermediate to mafic)	sharp upper contact at 70 degrees to core axis; rock is intensely foliated and altered, with pervasive quartz-veining, heavily carbonatized, albitized, with sericite-carbonate-albite patches along margins of quartz veins very fine-grained disseminations of sulphide and frequent hematized and mineralized veinlets within bull quartz veins; 159.63-160.80 m, 163.60-167.60 m: intervals with coarse cubic pyrite up to 5 mm, within metavolcanic material; overall pyrite content 20-30%	**154781**	150.00	151.00	1.00	157	
					154782	151.00	152.00	1.00	417	
					154783	152.00	153.00	1.00	281	
					154784	153.00	154.00	1.00	151	
					154785	154.00	155.00	1.00	179	
					154786	155.00	156.00	1.00	782	
					154787	156.00	157.00	1.00	121	
					154788	157.00	158.00	1.00	203	
					154789	158.00	159.00	1.00	951	
					154790	standard GS-1M			1130	
					154791	159.00	160.00	1.00	435	
					154792	160.00	161.00	1.00	322	
					154793	161.00	162.00	1.00	1900	
					154794	162.00	163.00	1.00	874	
					154795	163.00	164.00	1.00	247	
					154796	164.00	165.00	1.00	118	
					154797	165.00	166.00	1.00	498	
					154798	166.00	167.00	1.00	1980	
					154799	167.00	168.00	1.00	4020	
					154800	duplicate			3500	
167.60	179.41	11.81	porphyry	grey-white, medium- to coarse-grained, fine- to medium-grained pyrite throughout, with pyrite content 20-30%; 169.55-170.55 m, 170.90-171.64 m, 171.96-172.48 m, 172.73-172.95 m, 175.75-176.08 m: intervals of heavy sericitization and pyrite mineralization, with intercalated layers (up to 30 cm long) of quartz-volcanic breccia with albitization	**154801**	168.00	169.00	1.00	> 5000	7.64
					154802	169.00	170.00	1.00	351	
					154803	170.00	171.00	1.00	1230	
					154804	171.00	172.00	1.00	> 5000	11.3
					154805	172.00	173.00	1.00	2270	
					154806	173.00	174.00	1.00	126	

DRILL HOLE RS16-20

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
					154807	174.00	175.00	1.00	455	
					154808	175.00	176.00	1.00	1750	
					154809	176.00	177.00	1.00	150	
					154810	standard GS-3L			3460	
					154811	177.00	178.00	1.00	388	
					154812	178.00	179.00	1.00	46	
					154813	179.00	179.42	0.42	59	
179.41	185.60	6.19	diabase dike	black, massive diabase; both contacts sharp at 50 degrees to core axis						
185.60	185.98	0.38	porphyry	layer of coarse-grained unaltered porphyry, with trace pyrite mineralization; lower contact sharp, at 70 degrees to core axis	**154814**	185.60	186.00	0.40	69	
185.98	186.55	0.57	metavolcanic rock (intermediate to mafic)	dark grey-green, foliated, with millimeter-scale quartz-carbonate veins at 45 degrees to core axis, with a few cross-cutting veins; sharp upper contact at 70 degrees to core axis; lower contact is gradational pyrite mineralization is fine to 1 mm-size crystals along certain foliation planes, overall about 1-2% pyrite						
186.55	191.70	5.15	metavolcanic rock (intermediate to mafic)	medium green with intervals of lighter green, foliated/ sheared, chloritized, epidotized, cut by several cm-scale quartz-carbonate(-albite) veins and numerous thin (sub-mm) pyrite mineralization as fine to medium crystals along some foliation planes, with increased content in the wall rocks of some of the veins (e.g. at 188.75 m, 190.3 m) the metavolcanic material appears to have been in some instances albitized (e.g. at 191.15 m in the wall rock of a quartz vein); overall pyrite content 1-2%	**154815**	186.00	187.00	1.00	102	
					154816	187.00	188.00	1.00	25	
					154817	188.00	189.00	1.00	123	
					154818	189.00	190.00	1.00	31	
					154819	190.00	191.00	1.00	86	
					154820	blank BL-10			< 5	
					154821	191.00	192.00	1.00	117	
191.70	207.82	16.12	metavolcanic rock (felsic)	tuffaceous, light green-grey, sheared, epidotized, with pervasive, thin quartz-calcite, -epidote veins along foliation planes, strong fissility; barren of pyrite mineralization						
207.82	213.00	5.18	metavolcanic rock (felsic to intermediate)	tuffaceous, medium to light grey, strongly sheared, with thin mm to cm-scale black, graphite-bearing intervals alternating with tuffaceous silicic intervals, strong fissility; pyrite mineralization occurs as sporadic coarse crystals (1-5 mm), subeuhedral to anhedral along some foliation planes						
213.00	228.12	15.12	metavolcanic rock (felsic)	tuffaceous, light green and grey intervals, sheared, with quartz-calcite-epidote veins along foliation planes, strong fissility; barren of pyrite mineralization						
228.12	229.60	1.48	dike	mafic dike, sharp contacts at 45 degrees to core axis; cut by a few fractures with chlorite, calcite and feldspar; rock has dark mineral sub-mm to 1 mm size phenocrysts, quartz-feldspar(-calcite ?) crystals (up to 1 mm in size) and occasional pyrrhotite crystals						
229.60	236.30	6.70	metavolcanic rock (felsic)	tuffaceous, light green-grey, sheared, chlorite and epidote alteration						

DRILL HOLE RS16-20

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
236.30	236.87	0.57	dike	mafic dike, contacts conformal to the foliation planes of units above and below, at 45 degrees to core axis;						
236.87	245.05	8.18	metavolcanic rock (felsic)	tuffaceous, light green and grey intervals, sheared, strong fissility; barren of pyrite						
245.05				**END OF HOLE**						

Legend - Assay Value Intervals

colour	g/t
	0-0.09
	0.1-0.49
	0.5-0.99
	1-1.99
	2-2.99
	4-4.99
	> 5

Drill Hole Logging completed on: July 12, 2016

Signature B. Nitescu:

Richmond Minerals Inc.

DIAMOND DRILL RECORD

Ridley Lake (Swayze) Property

DRILL HOLE RS16-21

GRID LOCATION East	L0+25E	*COMMENCED*	July 11, 2016
GRID LOCATION North	1+32N	*COMPLETED*	July 14, 2016
SURVEYED	hand-held GPS	*DRILLING CO.*	Chenier Drillling Services Inc.
LENGTH (m)	235.52	*CORE SIZE*	NQ
BEARING (deg)	180 (planned value)	*CASING LEFT (m)*	6
INCLINATION (deg)	-45 (planned value)	*LOGGED BY*	W. Hawkins & B. Nitescu
COLLAR ELEVATION (m)	401	*DATE(S) LOGGED*	July 13-15, 2016
COLLAR EASTING	372678	*CORE LOCATION*	Watershed Core Logging Facility
COLLAR NORTHING	5303641	*DDH surveys:*	Reflex EZ-Shot
Notes:	NAD 83 UTM Zone 17N	*REC. SIGNED BY*	B. Nitescu (page 6)
TOWNSHIP	Rollo		
CLAIM NUMBER	4275238		

SURVEY DATA

Depth (m)	Inclination (deg)	Azimuth (deg)	Azimuth True North (correction -9.5 deg)	MAG (nT)
collar	-44.0	183.0	173.5	55742
96.00	-42.4	184.3	174.8	55667
141.00	-41.8	181.9	172.4	55660
195.00	-41.0	183.0	173.5	56190

DRILL HOLE RS16-21

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY	
									AA Finish Au (ppb)	Grav Finish Au (g/t)
	6.00	6.00	overburden	material of glacial origin (granitic boulders) and metavolcanic rock subcrop						
6.00	10.12	4.12	metavolcanic rock (intermediate)	medium green-grey, foliated / sheared, fine-grained , abundant quartz-carbonate veinlets at 40 to 60 degrees to core axis, chloritized, weakly epidotized; barren to trace pyrite mineralization						
10.12	12.00	1.88	dike	fine-grained, massive, mafic, contacts sharp at 60 degrees to core axis						
12.00	14.09	2.09	metavolcanic rock (intermediate)	similar to interval above dike						
14.09	16.08	1.99	dike	coarse-grained, chloritized, epidotized, sharp contacts at 50 degrees to core axis, interval is broken and blocky; 15.7-15.82 m: fault gouge and rubble						
16.08	27.29	11.21	metavolcanic rock (intermediate)	similar to metavolcanic rock intervals above 16.4-17.48 m: fault interval with gouge and rubble; 17.79-18.00 m: series of minor quartz veins; 18.6-19.96 m: fault interval with broken core and rubble; 21.26-21.43 m: broken, vuggy interval; 22.54-22.64 m: epidote-quartz(-sericite) alteration zone at 50 degrees to core axis, barren of pyrite mineralization						
27.29	27.78	0.49	dike	mafic, coarse-grained, upper contact sharp at 65 degrees to core axis, lower contact sharp at 70 degrees to core axis						
27.78	32.00	4.22	metavolcanic rock (intermediate)	similar to metavolcanic rock intervals above						
32.00	33.58	1.58	metavolcanic rock (intermediate)	strongly sheared at 60 degrees with pervasive quartz-carbonate veining and chloritization						
33.58	35.73	2.15	dike	mafic, medium-grained, sharp upper contact at 50, sharp lower contact at 80 degrees to core axis, with quartz lenses at lower contact, extending down to 36 m.						
35.73	63.90	28.17	metavolcanic rock (intermediate)	foliated, with quartz-carbonate veining at 50 degrees to core axis; trace pyrite mineralization - occasional, random blebs, disseminations and individual crystals up to 1 mm; 39.3-39.58 m: barren quartz veins at 35 degrees to core axis; 42.7-43.28 m: broken blocky core with gouge at the bottom of the interval; 43.28-43.43 m: fault gouge; 43.44-43.60 m: volcanic breccia; 56.10-56.40 m: foliated and brecciated zone with hematite-carbonate-quartz and minor stringers of pyrite; 56.85-57.44: minor dike, medium-grained (about 1 mm crystals) from 57.12 m						

DRILL HOLE RS16-21

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				slightly darker green-grey than metavolcanic rock; sharp upper and lower contacts at 90 degrees to the core axis; 58.40-58.57 m: stringers of pyrite						
63.90	72.55	8.65	dike	mafic, aphanitic at margins, with a medium-grained inner interval (66.75-69.40 m), contains intervals where core is broken or is reduced to rubble (65.27-60 m, 66.65-67.10 m, 70-70.58 m, 71.90-72.40 m); sharp upper contact at 65 degrees to core axis, lower contact broken, angle is unclear, wall rock is brecciated						
72.55	99.00	26.45	metavolcanic rock (intermediate)	medium to dark grey to 75.15 m, medium green-grey for rest of interval, foliated / sheared, chlorite-epidote alteration, with pervasive quartz-carbonate (-epidote) veins at 55-60 degrees to core axis, with hematite occasionally in some veins; quartz veins, brecciated, barren of mineralization at 72.90-73.10 m, 73.15-73.45 m; pyrite mineralization observed as stringers and disseminations mostly along foliation planes, up to 1%	**154822**	75.62	76.00	0.38	< 5	
					154823	76.00	77.00	1.00	< 5	
					154824	77.00	78.00	1.00	< 5	
					154825	96.00	97.00	1.00	< 5	
					154826	97.00	97.63	0.63	5	
					154827	98.50	99.00	0.50	114	
99.00	117.60	18.60	metavolcanic rock (felsic to intermediate)	medium to light green-grey, foliated, sheared, pervasive quartz-calcite (-epidote-hematite) veins at 55-60 degrees to core axis; pyrite mineralization trace to 1% in stringers and disseminations	**154828**	99.00	100.00	1.00	6	
					154829	115.60	116.00	0.40	578	
					154830	duplicate			633	
					154831	116.00	117.00	1.00	83	
					154832	117.00	118.00	1.00	318	
117.60	138.21	20.61	metavolcanic rock (intermediate to mafic)	medium to dark grey-green, sheared at 50 degrees to core axis, chloritized, pervasive carbonate-quartz veinlets throughout, typically at 50 degrees to core axis; 117.60-118.46 m: strong pyrite mineralization with disseminations, cubes and stringers along margins of quartz veinlets; pyrite content 10-15%; 118.46-120 m: 2-3% pyrite; 120-121.6 m: heavily mineralized, pervasive quartz-carbonate veining, patches of sericite and weak epidote alteration; 120.9-121.3 m: intensely mineralized, with a brecciated appearance, pyrite content more than 40%; 120.54-120.8 m: broken core, rubble; 121.6-123 m: 2-3% pyrite; 123-127.86 m: 1-2% pyrite; 127.86-129.65 m: 5% pyrite as cubes, disseminations and stringers; 129.65-132.2 m: heavily mineralized, with patches of quartz,sericite, epidote, albite, hematite alteration; brecciated appearance; sulphide content over 40%; 132.2-133.08 m: 5% pyrite content, stringers, cubes, patches of disseminations; 133.08-134.46 m: bands of quartz-albite-sericite alteration, sulphide content 40%; 136.5-136.56 m: epidotized quartz-carbonate veins with pyrite stringers along margins; 137-138.21 m: epidotized quartz-carbonate veins	**154833**	118.00	119.00	1.00	390	
					154834	119.00	120.00	1.00	118	
					154835	120.00	120.90	0.90	380	
					154836	120.90	121.85	0.95	954	
					154837	121.85	123.00	1.15	116	
					154838	123.00	124.00	1.00	17	
					154839	124.00	125.00	1.00	9	
					154840	standard GS-1M			1310	
					154841	125.00	126.00	1.00	190	
					154842	126.00	127.00	1.00	13	
					154843	127.00	127.85	0.85	14	
					154844	127.85	129.00	1.15	829	
					154845	129.00	130.00	1.00	1440	
					154846	130.00	130.95	0.95	1490	
					154847	130.95	132.00	1.05	843	
					154848	132.00	133.00	1.00	1640	
					154849	133.00	134.00	1.00	> 5000	7.55
					154850	blank BL-10			8	
					154851	134.00	135.00	1.00	757	
					154852	135.00	136.07	1.07	10	
					154853	136.07	137.00	0.93	< 5	
					154854	137.00	138.20	1.20	< 5	

DRILL HOLE RS16-21

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
138.21	155.00	16.79	gabbro	gabbro, medium to coarse-grained, epidotized, sharp broken upper contact, sharp lower contact at 90 degrees to core axis, with infrequent quartz veining and quartz-carbonate-epidote veins, randomly oriented; core is blocky; 145.4-145.72 m: interval with quartz veins with hematized margins that contain cubic and disseminated pyrite, up to 30%; 145.72-145.85 m: broken, blocky core; 147.45-148 m: quartz veining, stringers and epidotized veins with pyrite mineralization along margins, typically stringers	**154855**	145.40	145.70	0.30	78	
					154856	147.17	147.96	0.79	41	
					154857	150.00	150.72	0.72	101	
155.00	169.48	14.48	metavolcanic rock (intermediate to mafic)	medium to dark grey-green, sheared, chloritized, random bands of quartz veins with hematization and minor albite; 155.10-155.63 m, 156-156.20 m: mineralized intervals with smoky quartz-carbonate veins; 157.37-169.48: rock has bands of 10 to 50 cm with quartz veining, hematized margins and carbonate alteration, with pyrite content up to 40%; outside these bands pyrite content is 5%; 163-166 m: patches of albitized, heavily mineralized rock	**154858**	155.80	156.20	0.40	24	
					154859	157.33	158.00	0.67	1130	
					154860	duplicate			1300	
					154861	158.00	159.00	1.00	705	
					154862	159.00	159.90	0.90	18	
					154863	159.90	161.00	1.10	411	
					154864	161.00	162.00	1.00	8	
					154865	162.00	163.00	1.00	44	
					154866	163.00	164.00	1.00	1620	
					154867	164.00	165.00	1.00	372	
					154868	165.00	166.00	1.00	289	
					154869	166.00	167.00	1.00	11	
					154870	standard GS-3L			3150	
					154871	167.00	168.00	1.00	32	
					154872	168.00	169.00	1.00	178	
					154873	169.00	169.50	0.50	5	
169.48	174.00	4.52	mixed zone	zone with bull quartz veining containing patches with carbonate, albite, hematite, sericite, epidote and intense pyrite mineralization (30-40%), intercalated with strongly sheared metavolcanic material	**154874**	169.50	170.00	0.50	565	
					154875	170.00	171.00	1.00	443	
					154876	171.00	172.00	1.00	925	
					154877	172.00	173.00	1.00	1960	
					154878	173.00	174.00	1.00	3090	
174.00	178.77	4.77	metavolcanic rock (intermediate to mafic)	sheared metavolcanic rock with quartz-carbonate veining, pyrite content 3% in fine disseminations and stringers	**154879**	174.00	175.10	1.10	651	
					154880	blank BL-10			5	
					154881	175.10	176.09	0.99	563	
					154882	176.09	177.00	0.91	52	
					154883	177.00	178.05	1.05	24	
					154884	178.05	179.06	1.01	1790	
178.77	180.05	1.28	metavolcanic rock (intermediate to mafic)	interval with intense quartz veining and quartz-carbonate veinlets, veins have albite--sericite-hematite with heavy pyrite mineralization (25-30%)	**154885**	179.06	180.00	0.94	1050	
180.05	186.00	5.95	metavolcanic rock (intermediate to mafic)	meta-volcanic rock with fine sub-mm feldspar phenocrysts, massive, with randomly oriented quartz-carbonate veining, trace-1% pyrite content 181.32-181.80 m: irregular quartz-carbonate veining, weakly hematized and	**154886**	180.00	181.18	1.18	70	
					154887	181.18	182.09	0.91	179	
					154888	182.09	183.00	0.91	35	

DRILL HOLE RS16-21

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				epidotized and abundant pyrite mineralization (25-30%, cubes and disseminations);	**154889**	183.00	184.00	1.00	145	
				182.80-183.05 m: quartz vein, strongly hematized, with wall rock margins that are	**154890**	duplicate			102	
				weakly albitized and with fine pyrite mineralization;	**154891**	184.00	185.10	1.10	9	
				185.25-186 m: strong pyrite mineralization (30%, cubes and disseminations)	**154892**	185.10	186.00	0.90	95	
186.00	191.35	5.35	porphyry	quartz-feldspar porphyry, white-grey(-pink), fresh-looking, with intervals of	**154893**	186.00	187.00	1.00	228	
				hematization and random quartz veining;	**154894**	187.00	188.00	1.00	158	
				upper contact sharp at 80 degrees to core axis, lower contact sharp at 65 degrees	**154895**	188.00	189.00	1.00	106	
				to core axis;	**154896**	189.00	190.00	1.00	53	
				rock has fine to medium disseminated pyrite 5-10%;	**154897**	190.00	191.36	1.36	156	
				189.12-189.53 m: bull quartz vein with crystals of tourmaline; contacts have fine						
				pyrite mineralization;						
				189.55-190.10 m, 191-191.35 m: increased hematite alteration, rock becoming reddish						
191.35	204.90	13.55	metavolcanic rock (intermediate to mafic)	metavolcanic rock with fine sub-mm feldspar phenocrysts to 197.40 m; rock is	**154898**	191.36	192.34	0.98	35	
				mainly massive to 198.40 m (with some intervals of foliated rock), beyond which it is	**154899**	192.34	193.34	1.00	< 5	
				weakly to medium foliated; at upper contact, there is a 7 cm interval of albite-	**154900**	standard GS-1M			1220	
				-sericite--epidote alteration with disseminated mineralization, with pyrite crystals up	**154901**	193.34	194.33	0.99	949	
				to 1 mm in size; the mineralized interval extends to 191.50 m, with a pyrite content of	**154902**	194.33	195.00	0.67	8	
				5-10%; beyond this depth, the mineralization is often fine, disseminated, with	**154903**	195.00	196.00	1.00	134	
				sporadic larger crystals (mm size) and with zones of mineralization intensification in	**154904**	196.00	197.00	1.00	106	
				stringers and patches; overall pyrite content 5%;	**154905**	197.00	198.00	1.00	43	
				193.40-194.20 m: zone of strong foliation, with quartz -carbonate veining and two	**154906**	198.00	199.00	1.00	366	
				zones comprising quartz veins and zones of alteration at the margins of the veins	**154907**	199.00	200.00	1.00	52	
				in the wall rock, with albite-sericite and pyrite mineralization intensification; all veins	**154908**	200.00	201.00	1.00	226	
				are parallel to foliation, at 50-60 degrees to core axis;	**154909**	201.00	202.00	1.00	< 5	
				198.50-198.65 m: quartz vein with epidote, hematite and pyrite mineralization in	**154910**	blank BL-10			5	
				stringers at lower contact, where albite-sericite alteration also occurs;	**154911**	202.00	203.00	1.00	30	
				202.08-202.55 m: brecciated zone, with randomly oriented veins of quartz-carbonate,	**154912**	203.00	204.00	1.00	40	
				strongly chloritized and epidotized, and with some veins containing hematite;						
				202.95-204.9 m: rock becomes mafic						
204.90	209.29	4.39	dike	mafic dike (diabase), aphanitic at contacts, medium-grained, upper contact sharp, at						
				75 degrees to core axis, lower contact sharp at 60 degrees to core axis;						
				rock contains pyrite crystals and blebs, up to 1-2 mm, disseminated, with a pyrite						
				content up to 1%						
209.29	211.30	2.01	metavolcanic rock (intermediate)	medium grey-green, foliated, with fine quartz-carbonate veins at different	**154913**	209.28	210.00	0.72	< 5	
				angles; the rock becomes lighter in colour towards the lower contact;	**154914**	210.00	211.00	1.00	29	
				pyrite mineralization as isolated crystals up to mm size and stringers along veins, with						
				a content of pyrite of up to 1%						
211.30	219.25	7.95	metavolcanic rock (felsic)	tuffaceous, light green-grey, sheared, chlorite and epidote alteration, strong fissility						

DRILL HOLE RS16-21

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
219.25	224.13	4.88	metavolcanic rock (felsic)	tuffaceous, grey, strongly sheared, with graphitic intervals, strong fissility; rock has pyrite as sporadic blebs, isolated crystals and stringers, up to a few mm in size	**154915**	221.00	222.00	1.00	48	
224.13	233.23	9.10	metavolcanic rock (felsic)	tuffaceous, light green-grey, sheared, chlorite and epidote alteration, strong fissility; 231.67-231.79 m: mafic, porphyritic dike, with green crystals (olivine?) in grey-brown aphanitic mass; contacts parallel to foliaion, at 55 degrees to core axis						
233.23	235.52	2.29	metavolcanic rock (felsic)	tuffaceous, grey, strongly sheared, with graphitic intervals, strong fissility; rock has pyrite as sporadic blebs, isolated crystals and stringers, up to a few mm in size, along foliation planes	**154916**	234.09	234.66	0.57	21	
235.52				**END OF HOLE**						

Legend - Assay Value Intervals

colour	g/t
	0-0.09
	0.1-0.49
	0.5-0.99
	1-1.99
	3-3.99
	> 5

Drill Hole Logging completed on: July 15, 2016

Signature B. Nitescu:

Richmond Minerals Inc.

DIAMOND DRILL RECORD

Ridley Lake (Swayze) Property

DRILL HOLE RS16-22

GRID LOCATION East	L0+69E	*COMMENCED*	July 14, 2016
GRID LOCATION North	1+57N	*COMPLETED*	July 16, 2016
SURVEYED	hand-held GPS	*DRILLING CO.*	Chenier Drillling Services Inc.
LENGTH (m)	223.44	*CORE SIZE*	NQ
BEARING (deg)	180 (planned value)	*CASING LEFT (m)*	9
INCLINATION (deg)	-45 (planned value)	*LOGGED BY*	W. Hawkins & B. Nitescu
COLLAR ELEVATION (m)	400	*DATE(S) LOGGED*	July 16-17, 2016
COLLAR EASTING	372718	*CORE LOCATION*	Watershed Core Logging Facility
COLLAR NORTHING	5303668	*DDH surveys:*	Reflex EZ-Shot
Notes:	NAD 83 UTM Zone 17N	*REC. SIGNED BY*	B. Nitescu (page 5)
TOWNSHIP	Rollo		
CLAIM NUMBER	4275237		

SURVEY DATA

Depth (m)	Inclination (deg)	Azimuth (deg)	Azimuth True North (correction -9.5 deg)	MAG (nT)
collar	-44.1	184.3	174.8	55694
41.00	-43.5	185.2	175.7	55660
96.00	-41.8	185.0	175.5	55637
144.00	-41.2	185.0	175.5	55517
191.00	-41.5	183.1	173.6	55554

DRILL HOLE RS16-22

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
	8.50	8.50	overburden	material of glacial origin (granitic boulders) and metavolcanic rock subcrop						
8.50	107.75	99.25	metavolcanic rock (intermediate)	medium green-grey, with intervals of medium-light green-grey felsic-intermediate metavolcanic rock, foliated / sheared, fine-grained, with quartz-carbonate(-epidote) veinlets at 40 to 60 degrees to core axis, chloritized and (weakly) epidotized; intervals of heavily broken core (rubble): 17.38-18 m, 27.18-29.65 m; barren to trace pyrite mineralization, with intervals of up to 1% pyrite and narrow (cm-scale) bands of up to 5% pyrite, disseminated and in stringers along foliation, with crystals up to mm size; 42.70-44.54 m: pyrite stringers, up to 1% pyrite; 49.60 m: 2 cm band of fine veining with pyrite crystals up to 2 mm in size; 50.40-66 m: disseminated, sporadic pyrite crystals, often (sub-)euhedral, up to 5 mm in size, with a pyrite content up to 1%; 65.38 m: 4 cm band of fine veining with pyrite crystals up to 3 mm in size; 68.02-70.48 m, 74.15-74.33 m, 76.15-76.25 m, 77.55-77.94 m: intervals with prominent epidote(-hematite) veining; 75.26 m: 6 cm band with pyrite along foliation planes; 77 m: 13 cm band with pyrite stringers along foliation planes, about 3-5% pyrite; 84.46 m: 2 cm band with pyrite stringers along foliation planes; 89-94 m: numerous sub-intervals of more pervasive quartz-carbonate veining; 95.43 m: 11 cm band with disseminated pyrite crystals along foliation, about 1% pyrite; 96.22 m: 10 cm band with disseminated pyrite crystals along foliation, about 1% pyrite; 96.56-102 m: pyrite crystals up to 5 mm in size, disseminated and in occasional stringers, with an overall pyrite content of 1%; 100.65-101.09 m: interval with pervasive quartz-carbonate veining; 102-106.11 m: more felsic interval, with lighter green colour, quartz-carbonate--epidote veining and sporadic pyrite crystals up to 2 mm in size; 106.89-107.75 m: pervasive quartz-carbonate-epidote veining and disseminated fine (sub-mm) pyrite crystals; about 1% pyrite content						
107.75	116.20	8.45	dike	mafic, upper contact sharp at 75 degrees to core axis, at lower contact core is broken; aphanitic and medium-dark grey close to contacts (107.75-109 m, 114.99-116.2 m), and lighter grey-green, porphyritic with up to 1 mm feldspar phenocrysts, in between; strong chlorite alteration along fracture surfaces; core is broken, blocky or reduced to rubble in several intervals: 108.56-108.76 m, 109-109.54 m, 110.80-111.95 m, 114.30-114.65 m, 116.07-116.20 m; barren of mineralization						
116.20	152.53	36.33	metavolcanic rock (intermediate)	dark grey-green to 117.34 m, medium and medium-light green-grey to approx. 139 m, medium to medium-dark to 152.46 m; variations in colour may reflect variations from intermediate-mafic to intermediate and intermediate-felsic; rock is fine grained, foliated / sheared, with quartz-carbonate(-epidote-hematite) veins, generally at 30 to 60 degrees to core axis; 116.20-117.34 m: pyrite in stringers,blebs, and disseminated sub-mm crystals, up to 3% pyrite content; 116.65-117.14 m: interval with quartz-epidote(-hematite) veins;	**154917**	116.23	117.35	1.12	11	
					154918	121.80	122.76	0.96	5	
					154919	122.76	123.80	1.04	< 5	
					154920	duplicate			< 5	
					154921	127.50	128.55	1.05	552	

DRILL HOLE RS16-22

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				127.50-129.30 m: intensely sheared, with pervasive fine quartz-carbonate veining at 50 degrees to core axis, with stringers of pyrite mineralization close to 5%	**154922**	128.55	129.30	0.75	138	
				130.60-136.5 m: sheared, breaking easily along foliation planes, pyrite content 3%, very fine grained pyrite, with vuggy interval at 131.85-132 m, and occasional larger (sub-)euhedral crystals; veins with epidote becoming more common towards the bottom of the interval;	**154923**	130.57	131.55	0.98	79	
					154924	131.55	132.45	0.90	25	
					154925	132.45	133.50	1.05	96	
					154926	133.50	134.57	1.07	32	
				138.65- 141 m: 3-5% pyrite, with 5-10% pyrite at the bottom;	**154927**	134.57	135.58	1.01	16	
				141-143.42 m: sheared intermediate to mafic, intensely mineralized with bands of -sericite and quartz carbonate veining; overall 20-25% pyrite content;	**154928**	135.58	136.50	0.92	6	
				142-143.45 m: intensely hematized and albitized interval with fine pyrite mineralization and quartz-carbonate veining, pyrite content 40%;	**154929**	138.65	140.00	1.35	240	
					154930	standard GS-3L			2980	
				143.45 m reduction in pyrite content to less than 3%;	**154931**	140.00	141.00	1.00	31	
				148.36-148.52 m: vein with quartz, epidote and hematite;	**154932**	141.00	142.00	1.00	617	
				149.25-149.50 m: interval with quartz-hematite-ankerite veining;	**154933**	142.00	142.85	0.85	1270	
				145-152.53 m: pyrite content 3-5% as disseminations and stringers within quartz-carbonate veinlets;	**154934**	142.85	143.82	0.97	341	
					154935	143.82	144.82	1.00	14	
				at 152.53 m sharp contact at 40 degrees to core axis; contact is brecciated with quartz-carbonate (ankerite) -hematite	**154936**	144.82	146.00	1.18	< 5	
					154937	146.00	147.00	1.00	< 5	
					154938	147.00	148.00	1.00	7	
					154939	148.00	148.94	0.94	14	
					154940	blank BL-10			< 5	
					154941	148.94	150.00	1.06	5	
					154942	150.00	151.13	1.13	7	
					154943	151.13	152.00	0.87	10	
					154944	152.00	152.53	0.53	10	
152.53	153.65	1.12	dike	mafic, medium-grained dike, barren of pyrite mineralization,sharp upper and lower contacts at same angle (40 degrees to core axis)						
153.65	154.40	0.75	metavolcanic rock (intermediate)	similar to unit just above dike, with 3-5% pyrite	**154945**	153.65	154.39	0.74	12	
154.40	154.80	0.40		mafic, medium-grained dike, barren of pyrite mineralization,sharp upper and lower contacts at same angle (40 degrees to core axis); unit contains an irregular bull-quartz vein						
154.80	162.40	7.60	metavolcanic rock (intermediate)	unit has porphyritic intervals with small feldspar phenocrysts up to 1 mm;	**154946**	154.79	156.00	1.21	17	
				154.80-159 m: 3-5% pyrite content;	**154947**	156.00	157.00	1.00	7	
				159-162 m: 1% pyrite content	**154948**	157.00	158.00	1.00	< 5	
					154949	158.00	159.00	1.00	< 5	
					154950	duplicate			< 5	
					154951	159.00	160.00	1.00	< 5	
					154952	160.00	161.07	1.07	5	
					154953	161.07	162.00	0.93	6	
162.40	205.00	42.60	metavolcanic rock (intermediate)	unit with intense alteration zones; there are frequent intervals of quartz-carbonate veining with albitization and sericite alteration along margins or as inclusions and	**154954**	162.00	163.00	1.00	308	
					154955	163.00	164.13	1.13	374	

DRILL HOLE RS16-22

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				sulphide mineralization;	154956	164.13	165.00	0.87	26	
				alteration zones: 162.4-164 m, 165.75-166.46 m, 168-169.7 m, 172.85-174.85 m,	154957	165.00	166.00	1.00	179	
				175.3-175.9 m, 180.62-182.39 m, 184.53-187.2 m, 194.7-196.3 m;	154958	166.00	167.00	1.00	38	
				pyrite mineralization in alteration zones is fine to coarse euhedral crystals and occurs	154959	167.00	168.00	1.00	5	
				as disseminations, blebs, stringers and crystals, up to 40%;	154960	standard GS-1M			1160	
				outside the alteration zones, metavolcanic rock chloritized, epidotized, weakly	154961	168.00	169.07	1.07	782	
				sheared, with random quartz-carbonate veinlets, sulphide content up to 3-5% in	154962	169.07	170.00	0.93	270	
				disseminations;	154963	170.00	171.00	1.00	14	
				184.53-187.2 m: alteration zone with series of bull quartz veins, with albitized	154964	171.00	172.00	1.00	5	
				margins, sericite, carbonate alteration, and intense fine-grained pyrite mineralization;	154965	172.00	173.00	1.00	23	
				there are also inclusions of broken altered material within the bull quartz veins;	154966	173.00	174.00	1.00	14	
				189.40-193 m: massive, porphyritic, with sub-mm feldspar phenocrysts, patches of	154967	174.00	175.00	1.00	12	
				weak epidote alteration, occasional quartz veins, very fine pyrite about 1%;	154968	175.00	176.00	1.00	105	
				202.75-205 m: contact zone; broken and sheared rock, with pervasive high angle	154969	176.00	177.00	1.00	< 5	
				(30 degrees to core axis) quartz-carbonate veining and stringers of pyrite	154970	blank BL-10			< 5	
				mineralization; closer to the bottom the rock has a smokey-grey tint, likely related to	154971	177.00	177.95	0.95	49	
				albitization; pyrite content varies from 5 to 30%;	154972	177.95	179.06	1.11	16	
				205-205.27 m: intercalated albite-pyrite alteration and quartz-feldspar porphyry	154973	179.06	180.00	0.94	< 5	
					154974	180.00	181.00	1.00	93	
					154975	181.00	182.00	1.00	378	
					154976	182.00	183.00	1.00	50	
					154977	183.00	184.00	1.00	74	
					154978	184.00	185.00	1.00	482	
					154979	185.00	186.00	1.00	2740	
					154980	duplicate			2400	
					154981	186.00	187.00	1.00	1380	
					154982	187.00	188.00	1.00	137	
					154983	188.00	189.00	1.00	39	
					154984	189.00	190.00	1.00	6	
					154985	190.00	191.06	1.06	12	
					154986	191.06	192.00	0.94	< 5	
					154987	192.00	193.00	1.00	7	
					154988	193.00	194.06	1.06	11	
					154989	194.06	195.00	0.94	193	
					154990	standard GS-3L			3080	
					154991	195.00	196.00	1.00	212	
					154992	196.00	197.05	1.05	215	
					154993	197.05	198.00	0.95	44	
					154994	198.00	199.00	1.00	84	
					154995	199.00	200.00	1.00	89	
					154996	200.00	201.00	1.00	49	
					154997	201.00	202.00	1.00	225	
					154998	202.00	203.00	1.00	136	
					154999	203.00	204.00	1.00	563	
					155000	blank BL-10			< 5	

DRILL HOLE RS16-22

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
					212001	204.00	205.00	1.00	668	
205.00	208.50	3.50	porphyry	white-grey, quartz-feldspar porphyry, upper and lower contacts very sharp at 60 and 75 degrees to core axis, respectively; fresh-looking, with disseminated fine pyrite mineralization at 5%;	**212002**	205.00	206.00	1.00	131	
					212003	206.00	207.00	1.00	191	
					212004	207.00	207.93	0.93	61	
				205-205.27 m: intercalated albite-pyrite alteration and quartz-feldspar porphyry	**212005**	207.93	208.50	0.57	168	
208.50	209.72	1.22	metavolcanic rock (mafic)	sheared, with pervasive quartz-carbonate veining and albite-sericite alteration, pyrite content varies from 5 to 25% throughout the interval	**212006**	208.50	209.70	1.20	1040	
209.72	214.12	4.40	diabase dike	black, massive diabase; upper and lower contact sharp at 65 and 75 degrees to core axis, respectively	**212007**	209.70	210.55	0.85	5	
214.12	218.90	4.78	metavolcanic rock (intermediate to mafic)	random quartz-carbonate veining and patches of fine disseminated pyrite, 3-5%	**212008**	214.15	215.18	1.03	142	
					212009	215.18	216.00	0.82	29	
					212010	blank BL-10			< 5	
					212011	216.00	217.00	1.00	257	
					212012	217.00	218.00	1.00	281	
					212013	218.00	219.00	1.00	378	
218.90	223.44	4.54	metavolcanic rock (felsic)	gradational contact into felsic metavolcanic rock; epidotized, sheared, barren of pyrite						
223.44				**END OF HOLE**						

Legend - Assay Value Intervals

colour	g/t
	0-0.09
	0.1-0.49
	0.5-0.99
	1-1.99
	2-2.99

Drill Hole Logging completed on: July 17, 2015

Signature B. Nitescu:

Richmond Minerals Inc.

DIAMOND DRILL RECORD

Ridley Lake (Swayze) Property

DRILL HOLE RS16-23

GRID LOCATION East	L1+11E	*COMMENCED*	July 17, 2016
GRID LOCATION North	1+29N	*COMPLETED*	July 18, 2016
SURVEYED	hand-held GPS	*DRILLING CO.*	Chenier Drillling Services Inc.
LENGTH (m)	189	*CORE SIZE*	NQ
BEARING (deg)	180 (planned value)	*CASING LEFT (m)*	10.5
INCLINATION (deg)	-45 (planned value)	*LOGGED BY*	W. Hawkins & B. Nitescu
COLLAR ELEVATION (m)	403	*DATE(S) LOGGED*	July 18-19, 2016
COLLAR EASTING	372760	*CORE LOCATION*	Watershed Core Logging Facility
COLLAR NORTHING	5303640	*DDH surveys:*	Reflex EZ-Shot
Notes:	NAD 83 UTM Zone 17N	*REC. SIGNED BY*	B. Nitescu (page 5)
TOWNSHIP	Rollo		
CLAIM NUMBER	4275237		

SURVEY DATA

Depth (m)	Inclination (deg)	Azimuth (deg)	Azimuth True North (correction -9.5 deg)	MAG (nT)
collar	-43.1	185.0	175.5	55587
41.00	-43.0	186.1	176.6	no data
96.00	-41.9	188.4	178.9	55791
141.00	-41.0	190.0	180.5	57582
180.00	-40.2	189.4	179.9	55564

DRILL HOLE RS16-23

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
	9.69	9.69	overburden	glacial till						
9.69	16.85	7.16	metavolcanic rock (intermediate to mafic)	medium-dark and medium green, foliated / sheared, fine-grained, with quartz -carbonate(-epidote) veinlets at 50-60 degrees to core axis, parallel to foliation, chloritized and with hematite along fractures parallel to foliation; upper contact is sharp, at 45 degrees to core axis; pyrite mineralization occurs in stringers along foliation planes, isolated crystals, disseminations, with crystal sizes from fine to 5+ mm; pyrite content up to 3%; intervals of broken core: 9.70-10.52 m (last 10 cm rubble), 11-11.15 m (rubble), 11.40-11.60 m, 12.80-12.85 m (rubble); 14.38-14.46 m: interval with up to 1 mm feldspar phenocrysts along foliation; 15.68-16.13 m: interval with pervasive epidote veining						
16.85	20.85	4.00	meta-gabbro	foliated / sheared, different texturally from previous unit, with larger crystal sizes, up to medium-grained, and stretched felsic minerals in thin seams; strongly chloritized; rock has (sub-)euhedral pyrite crystals, sub-mm to approx. 2 mm in size, isolated and disseminated along foliation planes; pyrite content up to 2%; 19.30-19.68 m: interval of fine-grained metavolcanic rock, similar to previous unit; 20.60-20.85 m: rock becomes more massive						
20.85	59.85	39.00	metavolcanic rock (intermediate)	medium grey-green to medium-light green-grey metavolcanic rock, foliated / sheared, fine-grained, with quartz-carbonate(-epidote-hematite) veins, fine to cm-scale, 40-60 degrees to core axis, chloritized; unit has intervals with only sporadic occurrences of disseminated fine to mm-scale pyrite crystals and thin pyrite stringers, and intervals with increased pyrite content; intervals of broken core: 22.86-23.38 m, 24.80-24.85 m, 25-25.10 m, 27.09-27.20 m (rubble), 51.10-51.16 m (rubble); 42-42.20 m: interval with lenticular-anastomosing quartz-carbonate veins, along foliation planes; 46.88-47.30 m: interval with fine (but visible) felsic phenocrysts; 47.50-48.49 m: darker green interval, likely intermediate to mafic metavolcanic, with an increased pyrite content, about 1-2% as crystals along foliation planes, with size from fine to about 2 mm; 51.18-54.25 m: medium-light green interval, with pervasive quartz-carbonate-epidote veining; 57.25-59.85 m: increase in pyrite occurences in stringers and cm-scale bands often associated with quartz-carbonate-epidote-hematite veining; at bottom of interval, the last 20 cm contain up tp 15% pyrite mineralization	**212014**	57.20	58.20	1.00	7	
					212015	58.90	59.90	1.00	21	
59.85	61.63	1.78	dike	medium to dark grey, fine to medium-grained, cross-cut by several quartz-carbonate (-hematite) veins; upper contact sharp at 30 degrees to core axis, lower contact at 35 degrees to core axis; barren of pyrite mineralization						

DRILL HOLE RS16-23

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
61.63	99.40	37.77	metavolcanic rock (intermediate)	medium green, with interval variations to medium-light and medium-dark green, foliated / sheared, with frequent quartz-carbonate-epidote veins in certain intervals; unit has pyrite mineralization in stringers, blebs and disseminations, overall about 1% pyrite, with higher content in some intervals; 61.63-63.25 m: interval with frequent stringers and disseminations of pyrite; up to 5% pyrite mineralization; 78.70-79.30 m: smoky quartz vein containing thin seams of volcanic material, with albite and possibly weak sericite alteration, mineralized at margins and with mineralized wall rock; pyrite size from fine to coarse (sub-)euhedral crystals; wall rock intervals that are more intensely mineralized have a dark-grey appearance and are cut by quartz-carbonate veins; mineralized margins extent: 4 cm at upper contact, 30 cm at lower contact; pyrite content up to 5%; 80.86-91 m: interval contains many sub-intervals of broken, blocky core; 88.65-88.80 m: mafic fine-grained dike; 89.42-91 m: interval contains sub-intervals with broken core, hematite observed along some break planes; 95.46-96.92 m: interval with massive texture; 98.28-98.47 m: interval with stringers of pyrite mineralization; 99.23-99.40 m: interval with pervasive quartz-carbonate veining and intense pyrite mineralization along foliation planes; pyrite content 15-20%	**212016**	61.65	63.10	1.45	46	
					212017	78.62	79.37	0.75	390	
99.40	109.54	10.14	mafic intrusive	mafic, fine grained unit, massive, barren of pyrite;						
109.54	117.77	8.23	dike	dark-medium grey diabase, aphanitic at contact, transitioning to medium-grained at 111.50 m; upper contact 70 degrees to core axis; rock becomes aphanitic towards lower contact, which is irregular						
117.77	130.86	13.09	metavolcanic rock (intermediate)	medium green, moderately sheared, chloritized, fine to medium-grained, pervasive quartz-carbonate veinlets throughout the unit typically at 65 degrees to core axis; pyrite mineralization is disseminated, fine to euhedral (cubic) crystals, pyrite content throughout 3-5%; frequent intervals with bull quartz veins having intensely altered margins with albite, epidote, carbonate and sericite and pyrite content of 30-40%: 118.14-118.60 m, 119.30-120.40 m, 121.20-122.60 m, 128.77-129.6 m (+ hematite); 123.40-123.90: brocken, blocky core	**212018**	117.78	118.78	1.00	119	
					212019	118.78	119.54	0.76	30	
					212020	duplicate			31	
					212021	119.54	120.52	0.98	469	
					212022	120.52	121.54	1.02	370	
					212023	121.54	122.54	1.00	624	
					212024	122.54	123.49	0.95	49	
					212025	123.49	124.54	1.05	48	
					212026	124.54	125.68	1.14	1210	
					212027	125.68	126.80	1.12	922	
					212028	126.80	127.78	0.98	21	
					212029	127.78	129.00	1.22	100	
					212030	standard GS-1M			1120	
					212031	129.00	129.95	0.95	125	
					212032	129.95	130.88	0.93	51	
130.86	133.90	3.04	altered rock	interval of bull quartz veining with pyrite, albite, epidote, carbonate and sericite, foliated at 65 degrees to core axis, with mineralized patches of carbonate alteration and quartz veins;	**212033**	130.88	132.00	1.12	1050	
					212034	132.00	133.00	1.00	1230	
					212035	133.00	133.90	0.90	668	

DRILL HOLE RS16-23

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				overall pyrite content is 30-40%						
133.90	141.00	7.10	metavolcanic rock (intermediate)	medium green, moderately foliated, fine- to medium-grained, with pervasive quartz--carbonate veinlets throughout the unit typically at 65 degrees to core axis; disseminated fine to euhedral (cubic) pyrite mineralization throughout, pyrite content 3-5%; bull quartz veins with albite-epidote-carbonate-sericite altered margins with pyrite: 133.60-133.75 m, 137.06-137.60 m, 139.24-139.42 m	**212036**	133.90	135.00	1.10	236	
					212037	135.00	136.10	1.10	173	
					212038	136.10	137.05	0.95	26	
					212039	137.05	138.00	0.95	572	
					212040	blank BL-10			< 5	
					212041	138.00	138.96	0.96	51	
					212042	138.96	140.00	1.04	107	
					212043	140.00	141.00	1.00	15	
141.00	149.43	8.43	metavolcanic rock (intermediate)	dark green, fine-grained porphyry with fine phenocrysts of feldspar (orthoclase?); gradational upper contact, foliated at 65 degrees to core axis, with pervavsive quartz--carbonate veinlets down to 147.45 m; 141-146 m: disseminated pyrite; pyrite content up to 5% (where alteration not present); 142.30-144.1 m: quartz + pyrite-albite-epidote-carbonate-sericite; 147.50-149.40 m: fairly massive interval with 1-2% pyrite content and few quartz--carbonate veinlets	**212044**	141.00	142.00	1.00	43	
					212045	142.00	142.92	0.92	489	
					212046	142.92	144.06	1.14	2420	
					212047	144.06	145.00	0.94	182	
					212048	145.00	146.00	1.00	145	
					212049	146.00	147.00	1.00	8	
					212050	duplicate			8	
					212051	147.00	148.00	1.00	10	
					212052	148.00	149.00	1.00	5	
149.43	154.14	4.71	metavolcanic rock (intermediate to mafic)	dark green, medium to fine-grained, sheared / foliated typically at 50 degrees to core axis, with frequent quartz-carbonate veinlets parallel to shearing; pyrite disseminations, stringers, blebs and crystals throughout, frequent and parallel to shearing; pyrite content 5-10%; 151.65-152.20 m: interval with quartz and weak albitization, epidote, carbonate, sericite and pyrite; last 40 cm of the interval are very fine-grained	**212053**	149.00	150.00	1.00	104	
					212054	150.00	151.18	1.18	45	
					212055	151.18	152.34	1.16	119	
					212056	152.34	153.34	1.00	452	
					212057	153.34	154.14	0.80	183	
154.14	154.42	0.28	porphyry	grey-white, coarse-grained feldspar porphyry, fresh appearance, pyrite as disseminations throughout, pyrite content 3-5%	**212058**	154.14	154.70	0.56	37	
154.42	154.68	0.26	metavolcanic rock (intermediate)	medium green, fine- to medium-grained, moderately sheared, with pervasive quartz-carbonate veinlets throughout, typically at 65 degrees to core axis, and disseminated fine to medium cubic pyrite throughout, pyrite content 3-5%; sharp irregular upper contact; sharp lower contact at 45 degrees to core axis						
154.68	160.14	5.46	mafic dike	black, medium to coarse-grained, weakly chloritized, with some blocky intervals; barren of pyrite mineralization						
160.14	160.43	0.29	porphyry	grey-white, coarse-grained feldspar porphyry, fresh appearance, pyrite as disseminations throughout, pyrite content 3-5%; sharp upper and lower contacts at 45 degrees to core axis; lower contact is heavily mineralized, with pyrite veins and stringers						
160.43	169.18	8.75	metavolcanic rock (intermediate)	medium green, fine- to medium-grained, moderately sheared, with pervasive quartz--carbonate veinlets throughout, typically at 65 degrees to core axis; pyrite mineralization in stringers and as patches of disseminations, fine to	**212059**	160.14	161.06	0.92	401	
					212060	standard GS-3L			2980	
					212061	161.06	162.00	0.94	679	

DRILL HOLE RS16-23

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				medium euhedral crystals, pyrite content 3-5%;	**212062**	162.00	163.00	1.00	86	
				161.1-162.60 m: interval with quartz, albite, epidote, carbonate, sericite and pyrite;	**212063**	163.00	164.00	1.00	97	
				pyrite content 30% along margins	**212064**	164.00	165.00	1.00	225	
					212065	165.00	166.00	1.00	130	
					212066	166.00	167.00	1.00	134	
					212067	167.00	168.00	1.00	185	
					212068	168.00	169.18	1.18	664	
169.18	189.00	19.82	metavolcanic rock (felsic to intermediate)	light to medium green, typically very fine-grained, strongly sheared, with pervasive quartz-carbonate sericite veinlets, gradational upper contact, irregular pyrite stringers, blebs and cubic crystals						
189.00				**END OF HOLE**						

Legend - Assay Value Intervals

colour	g/t
	0-0.09
	0.1-0.49
	0.5-0.99
	1-1.99
	2-2.99

Drill Hole Logging completed on: July 19, 2016

Signature B. Nitescu:

Richmond Minerals Inc.

DIAMOND DRILL RECORD

Ridley Lake (Swayze) Property

DRILL HOLE RS16-24

GRID LOCATION East	L1+13E	*COMMENCED*	July 18, 2016
GRID LOCATION North	1+69N	*COMPLETED*	July 20, 2016
SURVEYED	hand-held GPS	*DRILLING CO.*	Chenier Drillling Services Inc.
LENGTH (m)	228	*CORE SIZE*	NQ
BEARING (deg)	180 (planned value)	*CASING LEFT (m)*	10.5
INCLINATION (deg)	-45 (planned value)	*LOGGED BY*	W. Hawkins & B. Nitescu
COLLAR ELEVATION (m)	401	*DATE(S) LOGGED*	July 20-22, 2016
COLLAR EASTING	372762	*CORE LOCATION*	Watershed Core Logging Facility
COLLAR NORTHING	5303680	*DDH surveys:*	Reflex EZ-Shot
Notes:	NAD 83 UTM Zone 17N	*REC. SIGNED BY*	B. Nitescu (page 5)
TOWNSHIP	Rollo		
CLAIM NUMBER	4275237		

SURVEY DATA

Depth (m)	Inclination (deg)	Azimuth (deg)	Azimuth True North (correction -9.5 deg)	MAG (nT)
collar	-43.1	190.1	180.6	55589
42.00	-46.3	194.1	184.6	55613
96.00	-45.8	195.2	185.7	55868
141.00	-45.5	193.1	183.6	55610
222.00	-45.0	196.7	187.2	56448

DRILL HOLE RS16-24

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
	11.00	11.00	overburden	material of glacial origin (granitic boulders) and metavolcanic rock subcrop						
11.00	44.51	33.51	metavolcanic rock (intermediate to mafic)	dark to medium green(-grey), foliated / sheared, fine-grained, with quartz -carbonate (-epidote-hematite) veinlets at 40-50 degrees to core axis, parallel to foliation, but also occasional veinlets at other orientations, cutting across foliation planes; chloritized and with hematite observed on some fracture planes; core is broken in certain intervals: 11.15-11.36 m, 17.66-17.84 m, 19.10-23 m, 21.20-22.66 m, 23.50-24 m, 33.85-34.40 m, 35.40-35.70 m, 42.42-42.88 m; pyrite mineralization is infrequent, and is observed in certain intervals as stringers along foliation planes, local disseminations, blebs and isolated crystals; overall pyrite content is trace to 1%; 28.12-28.20 m: interval with bands of pyrite stringers; 38.45-39.47 m: interval with massive, fine-grained volcanic rock, barren of pyrite; upper contact irregular, lower contact at 50 degrees to core axis; 39.70-39.80 m: vuggy interval						
44.51	75.43	30.92	metavolcanic rock (intermediate to mafic)	medium green, with more prominent quartz-carbonate veinlets, typically parallel to foliation, and occasional stringers and cubic crystals;	**212069**	59.00	60.00	1.00	< 5	
					212070	blank BL-10			< 5	
				44.90-44.97 m: interval with stringers;	**212071**	60.00	61.00	1.00	< 5	
				53.47-53.59 m: interval with quartz lenses and epidote alteration;	**212072**	61.00	62.00	1.00	< 5	
				54.53-55.64 m: broken core, rubble;	**212073**	62.00	63.00	1.00	< 5	
				56.65-56.70 m: pyrite stringers	**212074**	63.00	64.00	1.00	< 5	
				59.23-71.85 m: interval with pyrite crystals associated with quartz-carbonate veinlets, as well as weak disseminations in the rock; crystals are typically (sub-)euhedral, with size up to 3 mm; overall pyrite content 1-2%;	**212075**	64.00	65.00	1.00	< 5	
					212076	65.00	66.00	1.00	< 5	
					212077	66.00	67.04	1.04	< 5	
				73.13-75.33 m: medium-light green interval, with a few epidote-quartz-carbonate veins, but overall fewer veins than in rest of unit;	**212078**	67.04	68.00	0.96	< 5	
					212079	68.00	68.96	0.96	< 5	
				75.33-75.43 m: quartz vein containing metavolcanic material marking the bottom of unit	**212080**	duplicate			< 5	
					212081	68.96	70.00	1.04	< 5	
					212082	70.00	71.00	1.00	< 5	
					212083	71.00	71.84	0.84	< 5	
75.43	76.52	1.09	metagabbro (intermediate to mafic)	sub-volcanic unit, fine to medium-grained, foliated and chloritized, cut by a few cm-scale quartz veins; barren of pyrite						
76.52	78.42	1.90	dike	grey, mafic, massive, porphyritic, with feldspar phenocrysts; upper contact irregular, marked by a bull quartz lens / vein, lower contact sharp at 40 degrees to core axis; barren of pyrite						
78.42	133.05	54.63	metavolcanic rock (intermediate)	medium green, chloritized, with quartz-carbonate(-epidote) veins, often pervasive, 40-60 degrees to core axis; occasional vuggy intervals, up to 10 cm long; intervals of broken core: 96.70-97.10 m, 98.35-98.60 m, 103.80-104.20 m, 112.60-112.70 m; unit has occasional intervals with pyrite crystals, blebs, disseminations and stringers associated with quartz-carbonate veinlets, with an overall pyrite content for the unit of about 1%;	**212084**	132.00	132.70	0.70	848	

DRILL HOLE RS16-24

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				119.45-119.54 m: small mafic dike, medium grey, aphanitic, sharp contacts at 55 degrees to core axis; 132-133.70 m: interval heavily pervaded by quartz-carbonate veins and with more intense pyrite mineralization, in stringers and disseminations along foliation planes, fine- to medium-grained pyrite, with pyrite content up to 10%						
133.05	137.80	4.75	metavolcanic rock (mafic)	dark grey / black, fine-grained, foliated / sheared, coss-cut by several cm-scale quartz-carbonate-epidote veins, upper contact broken, sharp, at approximately 90 degrees to core axis, lower contact sharp, at 45 degrees to core axis; pyrite mineralization observed mostly in upper half of unit (up to 1%), with the lower half having only trace pyrite ; interval of broken core: 136.80-137.20 m						
137.80	138.80	1.00	cherty formation (banded iron form. ?)	unit is cherty and barren of pyrite to 138.48 m; below, there is a mix of chert, veins and volcanic material, with the last 10 cm of mafic metavolcanic; pyrite mineralization observed in the bottom 40 cm of the unit, as stringers, blebs and crystals, with pyrite content up to 2%	**212085**	137.80	138.78	0.98	48	
138.80	146.80	8.00	dike	diabase dike, aphanitic within 30-35 cm of the margins, medium-grained in between the aphanitic zones, upper contact broken, lower contact sharp at 50 degrees to core axis; barren of pyrite; contains several intervals of broken core						
146.80	190.71	43.91	metavolcanic rock (mafic to intermediate)	medium grey-green, fine-grained;	**212086**	158.06	159.00	0.94	8	
				146.80-150.08 m: interval with a few prominent, up to several cm-thick quartz--carbonate-epidote veins, most at 45 degrees to core axis; pyrite mineralization as sporadic crystals and thin stringers, with an overall trace pyrite content;	**212087**	159.00	160.05	1.05	14	
					212088	160.05	161.00	0.95	8	
					212089	161.00	162.00	1.00	10	
				148.52-150 m: very thin veinlets, at 25-45 degrees to core axis;	**212090**	standard GS-1M			1140	
				150.17 m: starting at this depth the unit has frequent to pervasive quartz-carbonate--epidote veinlets;	**212091**	162.00	163.00	1.00	32	
					212092	163.00	164.50	1.50	16	
				150.08-158 m: pyrite mineralization in occasional stringers, and as sporadic crystals, with pyrite content up to 1%;	**212093**	164.50	165.16	0.66	276	
					212094	165.16	166.10	0.94	8	
				158 m: gradually an increase in pyrite occurrences is observed, with intervals with stronger mineralization as stringers, stringer bands within quartz-carbonate veins and in wall rock of bull quartz veins, disseminations, with crystal size from fine- to medium-grained;	**212095**	166.10	167.08	0.98	9	
					212096	167.08	168.00	0.92	< 5	
					212097	168.00	169.10	1.10	5	
					212098	169.10	170.00	0.90	6	
				170.75-171 m: interval with veins of quartz-carbonate, with albitization, possible weak sericitization and fine pyrite mineralization;	**212099**	170.00	171.00	1.00	9	
					212100	blank BL-10			< 5	
				171.90-172.10 m: cm-scale quartz-carbonate veins, intercalated with dark green metavolcanic material, with sporadic, weak stringers and crystals of pyrite;	**212101**	171.00	172.00	1.00	6	
					212102	172.00	172.85	0.85	< 5	
				173.68-174.24 m: weakly albitized interval, with pervasive quartz carbonate veins; at top of the interval, there is extensive pyrite mineralization in stringers;	**212103**	172.85	173.70	0.85	< 5	
					212104	173.70	174.25	0.55	31	
				174.24-177.34 m: weakly sheared, with random bull quartz veining, and with pyrite in random stringers; pyrite content 3-5%;	**212105**	174.25	175.15	0.90	7	
					212106	175.15	176.10	0.95	151	
				177.34-181 m: pervasive quartz-carbonate veining with more frequent pyrite stringers and disseminations; pyrite content up to 10%;	**212107**	176.10	177.00	0.90	43	
					212108	177.00	178.00	1.00	16	

DRILL HOLE RS16-24

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
				183.43-184.88 m: strongly foliated, with quartz veining and lenses of quartz--carbonate along foliation planes; weakly mineralized, with pyrite as disseminations and blebs, and with a pyrite content of 2-3%;	212109	178.00	179.00	1.00	745	
					212110	duplicate			640	
					212111	179.00	180.00	1.00	191	
				184.88-188.7 m: massive, epidotized, fine- to medium-grained, with random quartz veins and patches of pyrite; pyrite content less than 1%; upper contact sharp at 50 degrees to core axis, lower contact sharp at 30 degrees to core axis;	212112	180.00	181.00	1.00	84	
					212113	181.00	182.00	1.00	7	
					212114	182.00	183.00	1.00	12	
					212115	183.00	184.00	1.00	12	
				188.7-190.71 m: strongly sheared, pervasive quartz-carbonate veining, very well mineralized (coarse pyrite crystals, disseminations, stringers), pyrite content is 25-30%;	212116	184.00	185.00	1.00	11	
					212117	185.00	186.00	1.00	14	
					212118	186.00	187.05	1.05	< 5	
				189-189.75 m: hematized, silicified interval, with tourmaline in the quartz veins	212119	187.05	188.05	1.00	5	
					212120	standard GS-3L			3190	
					212121	188.05	189.00	0.95	25	
					212122	189.00	190.00	1.00	787	
					212123	190.00	191.00	1.00	15	
190.71	193.98	3.27	gabbro	massive, strongly epidotized, with occasional stringers of pyrite	212124	191.00	192.00	1.00	5	
					212125	192.00	192.94	0.94	57	
					212126	192.94	194.00	1.06	145	
193.98	212.25	18.27	metavolcanic rock (mafic to intermediate)	sheared, pervasive quartz-carbonate veining and bands of pervasive pyrite mineralization;	212127	194.00	195.00	1.00	263	
					212128	195.00	196.00	1.00	121	
				196.5-196.84 m: quartz veining with strong mineralization as cubes and blebs parallel to foliation; pyrite content 20%; quartz vein at bottom of interval, with contact sharp at 60 degrees to core axis;	212129	196.00	196.84	0.84	235	
					212130	blank BL-10			< 5	
					212131	196.84	197.69	0.85	10	
				196.84-197.65 m: fine-grained, mafic, massive unit, bottom contact sharp at 60 degrees to core axis;	212132	197.69	198.57	0.88	1120	
					212133	198.57	199.46	0.89	92	
				197.65-198.25 m: interval with quartz veining and pyrite mineralization as stringers, fine disseminations and cubes, pyrite content 20-25%;	212134	199.46	200.26	0.80	9	
					212135	200.26	201.09	0.83	401	
				198.25-198.55 m: silicified interval with albite-hematite alteration and strong pyrite mineralization as stringers, disseminations, crystals, parallel to foliation, pyrite content 35-40%;	212136	201.09	202.07	0.98	107	
					212137	202.07	203.00	0.93	92	
					212138	203.00	204.00	1.00	32	
				200.33-200.75 m: pervasive quartz veining, weak albite alteration, pyrite mineralization as stringers and disseminations, pyrite content 25-30%;	212139	204.00	205.00	1.00	587	
					212140	duplicate			683	
				204-205.6 m, 206.42-207.17 m, 209-210 m: intervals with bull-quartz veining with margins of albite-hematite-carbonate-sericite alteration, pyrite mineralization 35-40%;	212141	205.00	206.00	1.00	900	
					212142	206.00	207.12	1.12	357	
				210.5-210.8 m: strong epidote alteration, weaker albitization, pyrite content 15-20%;	212143	207.12	208.05	0.93	119	
				211.63-212.25 m: interval with albite-hematite-carbonate alteration and bull-quartz veins; stringers, veinlets and disseminations of pyrite mineralization, predominantly parallel to foliation, 50 degrees to core axis	212144	208.05	209.00	0.95	14	
					212145	209.00	210.00	1.00	430	
					212146	210.00	210.90	0.90	7	
					212147	210.90	211.75	0.85	76	
					212148	211.75	212.62	0.87	64	
212.25	217.11	4.86	gabbro	gradational contact; mafic, green, massive, medium-grained, homogeneous, fine pyrite mineralization with pyrite content 2-3%;	212149	212.62	213.80	1.18	< 5	
					212150	standard GS-1M			1250	
				217.08 m: 3 cm-wide grey, aphanitic dike, with sharp contacts at 60 degrees to core axis; high magnetic susceptibility (0.0793 SI units);	212151	213.80	214.95	1.15	< 5	
					212152	214.95	216.00	1.05	< 5	
					212153	216.00	217.00	1.00	< 5	

DRILL HOLE RS16-24

FROM (m)	TO (m)	LENGTH (m)	LITHOLOGY	DESCRIPTION (TEXTURE, STRUCTURE, ALTERATION, MINERALIZATION)	SAMPLE No.	FROM (m)	TO (m)	LENGTH (m)	FIRE ASSAY AA Finish Au (ppb)	FIRE ASSAY Grav Finish Au (g/t)
217.11	218.10	0.99	metavolcanic rock (mafic to intermediate)	medium-dark green, fine-grained, foliated, pervasive quartz-carbonate veining parallel to foliation, sharp lower contact at 50 degrees, pyrite mineralization 3-5%	**212154**	217.00	218.00	1.00	211	
218.10	225.37	7.27	gabbro	similar to previous gabbro interval, but barren of pyrite mineralization;	**212155**	218.00	219.00	1.00	5	
				225.16-225.37 m: interval with strong foliation;	**212156**	219.00	220.08	1.08	< 5	
				225.2-225.3 m: occasional stringers of pyrite and some pyrite dissemination, pyrite content 5%	**212157**	220.08	221.00	0.92	< 5	
					212158	221.00	222.00	1.00	459	
					212159	222.00	223.00	1.00	8	
225.37	228.00	2.63	dike	diabase dike, massive, fine to medium grained, upper contact sharp at 60 degrees, barren of pyrite mineralization	**212160**	blank BL-10			< 5	
228.00				**END OF HOLE**						

Legend - Assay Value Intervals

colour	g/t
	0-0.09
	0.1-0.49
	0.5-0.99
	1-1.99

Drill Hole Logging completed on: July 22, 2016

Signature B. Nitescu:

APPENDIX 2

ACTLABS CERTIFICATE OF ANALYSIS AND ASSAY REPORT

REPORT ON
DIAMOND DRILLING CONDUCTED ON
CLAIMS 4275237 AND 4275238
OF THE RIDLEY LAKE (SWAYZE) PROPERTY
Work Period
July 06 – July 26, 2016

Quality Analysis ... *Innovative Technologies*

Date Submitted: 27-Jul-16
Invoice No.: A16-07357
Invoice Date: 30-Aug-16
Your Reference: Ridely Lake (Swayze)

Richmond Minerals Inc.
133 Richmond Street West, Suite 403
Toronto ON M5H 2L3

ATTN: Bogdan Nitescu

CERTIFICATE OF ANALYSIS

454 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code 1A2-Sudbury Au - Fire Assay AA

REPORT **A16-07357**

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1010 Lorne Street Unit West 4, Sudbury, Ontario, Canada, P3C 4R9
TELEPHONE +705 586-3288 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Sudbury@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154707	< 5	
154708	< 5	
154709	< 5	
154710	< 5	
154711	< 5	
154712	< 5	
154713	< 5	
154714	< 5	
154715	< 5	
154716	< 5	
154717	< 5	
154718	< 5	
154719	< 5	
154720	3260	
154721	< 5	
154722	< 5	
154723	< 5	
154724	< 5	
154725	< 5	
154726	< 5	
154727	< 5	
154728	74	
154729	387	
154730	< 5	
154731	888	
154732	146	
154733	21	
154734	14	
154735	193	
154736	14	
154737	97	
154738	628	
154739	17	
154740	21	
154741	188	
154742	111	
154743	14	
154744	12	
154745	871	
154746	1690	
154747	29	
154748	10	
154749	5	
154750	1130	
154751	10	
154752	358	
154753	9	
154754	8	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154755	14	
154756	619	
154757	178	
154758	1740	
154759	420	
154760	3140	
154761	497	
154762	306	
154763	229	
154764	1360	
154765	106	
154766	150	
154767	368	
154768	232	
154769	342	
154770	< 5	
154771	67	
154772	7	
154773	11	
154774	27	
154775	231	
154776	200	
154777	265	
154778	1490	
154779	119	
154780	172	
154781	157	
154782	417	
154783	281	
154784	151	
154785	179	
154786	782	
154787	121	
154788	203	
154789	951	
154790	1130	
154791	435	
154792	322	
154793	1900	
154794	874	
154795	247	
154796	118	
154797	498	
154798	1980	
154799	4020	
154800	3500	
154801	> 5000	7.64
154802	351	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154803	1230	
154804	> 5000	11.3
154805	2270	
154806	126	
154807	455	
154808	1750	
154809	150	
154810	3460	
154811	388	
154812	46	
154813	59	
154814	69	
154815	102	
154816	25	
154817	123	
154818	31	
154819	86	
154820	< 5	
154821	117	
154822	< 5	
154823	< 5	
154824	< 5	
154825	< 5	
154826	5	
154827	114	
154828	6	
154829	578	
154830	633	
154831	83	
154832	318	
154833	390	
154834	118	
154835	380	
154836	954	
154837	116	
154838	17	
154839	9	
154840	1310	
154841	190	
154842	13	
154843	14	
154844	829	
154845	1440	
154846	1490	
154847	843	
154848	1640	
154849	> 5000	7.55
154850	8	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154851	757	
154852	10	
154853	< 5	
154854	< 5	
154855	78	
154856	41	
154857	101	
154858	24	
154859	1130	
154860	1300	
154861	705	
154862	18	
154863	411	
154864	8	
154865	44	
154866	1620	
154867	372	
154868	289	
154869	11	
154870	3150	
154871	32	
154872	178	
154873	5	
154874	565	
154875	443	
154876	925	
154877	1960	
154878	3090	
154879	651	
154880	5	
154881	563	
154882	52	
154883	24	
154884	1790	
154885	1050	
154886	70	
154887	179	
154888	35	
154889	145	
154890	102	
154891	9	
154892	95	
154893	228	
154894	158	
154895	106	
154896	53	
154897	156	
154898	35	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154899	< 5	
154900	1220	
154901	949	
154902	8	
154903	134	
154904	106	
154905	43	
154906	366	
154907	52	
154908	226	
154909	< 5	
154910	5	
154911	30	
154912	40	
154913	< 5	
154914	29	
154915	48	
154916	21	
154917	11	
154918	5	
154919	< 5	
154920	< 5	
154921	552	
154922	138	
154923	79	
154924	25	
154925	96	
154926	32	
154927	16	
154928	6	
154929	240	
154930	2980	
154931	31	
154932	617	
154933	1270	
154934	341	
154935	14	
154936	< 5	
154937	< 5	
154938	7	
154939	14	
154940	< 5	
154941	5	
154942	7	
154943	10	
154944	10	
154945	12	
154946	17	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154947	7	
154948	< 5	
154949	< 5	
154950	< 5	
154951	< 5	
154952	5	
154953	6	
154954	308	
154955	374	
154956	26	
154957	179	
154958	38	
154959	5	
154960	1160	
154961	782	
154962	270	
154963	14	
154964	5	
154965	23	
154966	14	
154967	12	
154968	105	
154969	< 5	
154970	< 5	
154971	49	
154972	16	
154973	< 5	
154974	93	
154975	378	
154976	50	
154977	74	
154978	482	
154979	2740	
154980	2400	
154981	1380	
154982	137	
154983	39	
154984	6	
154985	12	
154986	< 5	
154987	7	
154988	11	
154989	193	
154990	3080	
154991	212	
154992	215	
154993	44	
154994	84	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154995	89	
154996	49	
154997	225	
154998	136	
154999	563	
155000	< 5	
212001	668	
212002	131	
212003	191	
212004	61	
212005	168	
212006	1040	
212007	5	
212008	142	
212009	29	
212010	< 5	
212011	257	
212012	281	
212013	378	
212014	7	
212015	21	
212016	46	
212017	390	
212018	119	
212019	30	
212020	31	
212021	469	
212022	370	
212023	624	
212024	49	
212025	48	
212026	1210	
212027	922	
212028	21	
212029	100	
212030	1120	
212031	125	
212032	51	
212033	1050	
212034	1230	
212035	668	
212036	236	
212037	173	
212038	26	
212039	572	
212040	< 5	
212041	51	
212042	107	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
212043	15	
212044	43	
212045	489	
212046	2420	
212047	182	
212048	145	
212049	8	
212050	8	
212051	10	
212052	5	
212053	104	
212054	45	
212055	119	
212056	452	
212057	183	
212058	37	
212059	401	
212060	2980	
212061	679	
212062	86	
212063	97	
212064	225	
212065	130	
212066	134	
212067	185	
212068	664	
212069	< 5	
212070	< 5	
212071	< 5	
212072	< 5	
212073	< 5	
212074	< 5	
212075	< 5	
212076	< 5	
212077	< 5	
212078	< 5	
212079	< 5	
212080	< 5	
212081	< 5	
212082	< 5	
212083	< 5	
212084	848	
212085	48	
212086	8	
212087	14	
212088	8	
212089	10	
212090	1140	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
212091	32	
212092	16	
212093	276	
212094	8	
212095	9	
212096	< 5	
212097	5	
212098	6	
212099	9	
212100	< 5	
212101	6	
212102	< 5	
212103	< 5	
212104	31	
212105	7	
212106	151	
212107	43	
212108	16	
212109	745	
212110	640	
212111	191	
212112	84	
212113	7	
212114	12	
212115	12	
212116	11	
212117	14	
212118	< 5	
212119	5	
212120	3190	
212121	25	
212122	787	
212123	15	
212124	5	
212125	57	
212126	145	
212127	263	
212128	121	
212129	235	
212130	< 5	
212131	10	
212132	1120	
212133	92	
212134	9	
212135	401	
212136	107	
212137	92	
212138	32	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
212139	587	
212140	683	
212141	900	
212142	357	
212143	119	
212144	14	
212145	430	
212146	7	
212147	76	
212148	64	
212149	< 5	
212150	1250	
212151	< 5	
212152	< 5	
212153	< 5	
212154	211	
212155	5	
212156	< 5	
212157	< 5	
212158	459	
212159	8	
212160	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
OxD108 Meas	434	
OxD108 Cert	414	
OREAS 203 Meas	890	
OREAS 203 Cert	871.000	
OREAS 203 Meas	895	
OREAS 203 Cert	871.000	
OREAS 203 Meas	891	
OREAS 203 Cert	871.000	
OREAS 203 Meas	874	
OREAS 203 Cert	871.000	
OREAS 203 Meas	877	
OREAS 203 Cert	871.000	
OREAS 203 Meas	913	
OREAS 203 Cert	871.000	
OREAS 203 Meas	914	
OREAS 203 Cert	871.000	
OREAS 203 Meas	923	
OREAS 203 Cert	871.000	
OREAS 203 Meas	900	
OREAS 203 Cert	871.000	
OREAS 203 Meas	917	
OREAS 203 Cert	871.000	
OREAS 203 Meas	914	
OREAS 203 Cert	871.000	
OREAS 203 Meas	926	
OREAS 203 Cert	871.000	
OREAS 203 Meas	912	
OREAS 203 Cert	871.000	
OREAS 203 Meas	892	
OREAS 203 Cert	871.000	
OxK110 Meas		3.51
OxK110 Cert		3.602
OxL118 Meas		5.69
OxL118 Cert		5.828
SF85 Meas	867	
SF85 Cert	848	
154716 Orig	< 5	
154716 Dup	< 5	
154726 Orig	< 5	
154726 Dup	< 5	
154736 Orig	14	
154736 Dup	14	
154751 Orig	11	
154751 Dup	8	
154756 Orig	619	
154756 Split PREP DUP	637	
154761 Orig	525	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154761 Dup	468	
154771 Orig	65	
154771 Dup	68	
154785 Orig	181	
154785 Dup	176	
154795 Orig	249	
154795 Dup	244	
154805 Orig	2140	
154805 Dup	2400	
154806 Orig	126	
154806 Split PREP DUP	134	
154829 Orig	606	
154829 Dup	633	
154839 Orig	8	
154839 Dup	10	
154854 Orig	< 5	
154854 Dup	< 5	
154856 Orig	41	
154856 Split PREP DUP	53	
154864 Orig	8	
154864 Dup	8	
154874 Orig	544	
154874 Dup	586	
154888 Orig	33	
154888 Dup	36	
154898 Orig	40	
154898 Dup	30	
154906 Orig	366	
154906 Split PREP DUP	368	
154908 Orig	245	
154908 Dup	206	
154919 Orig	< 5	
154919 Dup	< 5	
154922 Orig	144	
154922 Dup	132	
154932 Orig	594	
154932 Dup	640	
154942 Orig	7	
154942 Dup	6	
154949 Orig	< 5	
154949 Dup	< 5	
154956 Orig	26	
154956 Split PREP DUP	21	
154957 Orig	194	
154957 Dup	164	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
154967 Orig	12	
154967 Dup	12	
154977 Orig	18	
154977 Dup	129	
154991 Orig	214	
154991 Dup	209	
212001 Orig	695	
212001 Dup	640	
212006 Orig	1040	
212006 Split PREP DUP	916	
212011 Orig	245	
212011 Dup	268	
212025 Orig	52	
212025 Dup	44	
212035 Orig	662	
212035 Dup	674	
212045 Orig	464	
212045 Dup	513	
212056 Orig	452	
212056 Split PREP DUP	417	
212061 Orig	685	
212061 Dup	673	
212071 Orig	< 5	
212071 Dup	< 5	
212080 Orig	< 5	
212080 Dup	< 5	
212094 Orig	9	
212094 Dup	7	
212104 Orig	30	
212104 Dup	32	
212106 Orig	151	
212106 Split PREP DUP	216	
212106 Orig	156	
212106 Dup	146	
212114 Orig	10	
212114 Dup	14	
212128 Orig	123	
212128 Dup	119	
212138 Orig	31	
212138 Dup	32	
212148 Orig	62	
212148 Dup	66	
212156 Orig	< 5	
212156 Split PREP DUP	< 5	
Method Blank	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA-GRA
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.03
Method Blank		< 0.03
Method Blank	< 5	
Method Blank	< 5	

APPENDIX 3

CDN RESOURCE LABORATORIES CERTIFICATES OF STANDARD REFERENCE MATERIALS

REPORT ON
DIAMOND DRILLING CONDUCTED ON
CLAIMS 4275237 AND 4275238
OF THE RIDLEY LAKE (SWAYZE) PROPERTY
Work Period
July 06 – July 26, 2016

CDN Resource Laboratories Ltd.

#2, 20148 - 102nd Avenue, Langley, B.C., Canada, V1M 4B4, Ph: 604-882-8422 Fax: 604-882-8466
(www.cdnlabs.com)

STANDARD REFERENCE MATERIAL: CDN-BL-10

Recommended values:
Gold concentration: ***< 0.01 g/t***
Platinum concentration: ***< 0.01 g/t***
Palladium concentration: ***< 0.01 g/t***

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph. D., P. Geo.
DATE OF CERTIFICATION: November 25, 2011

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-BL-10 was prepared using a blank granitic material.

METHOD OF PREPARATION:

The granitic material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 (<53 micron) material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 12 commercial laboratories for round robin assaying. Round robin results are displayed on the next page.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent			Percent
SiO2	69.7		Na2O	3.1
Al2O3	12.3		MgO	2.3
Fe2O3	5.2		K2O	0.9
CaO	3.8		TiO2	0.6
MnO	0.1		LOI	1.9
			S	<0.1

Statistical Procedures: There was no statistical analysis performed on the data.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver
Actlabs, Ancaster, Ontario
Actlabs, Thunder Bay, Ontario
ALS Chemex Laboratories, North Vancouver
AGAT, Mississauga, Ontario
AHK, Alaska, USA
Alex Stewart, Mendosa, Argentina
TSL Laboratories, Saskatoon
Genalysis, Perth, Australia
Labtium, Finland
SGS, Lima, Peru
Ultra Trace, Perth, Australia

Assay Procedure: assays were fire assay, AA or ICP finish on 30g samples.

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12
Sample	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm	Au ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm	Pt ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm	Pd ppm
CDN-BL-10-1	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-5	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-9	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
CDN-BL-10-10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01

Certified by 

Duncan Sanderson, Certified Assayer of B.C.

Geochemist 

Dr. Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-GS-1M

Recommended value and the "Between Laboratory" two standard deviations

Gold concentration: 1.07 ± 0.09 g/t (30g Fire Assay / AA or ICP)

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: May 27, 2013

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-1M was prepared using 793 kg of a blank granitic ore and 7 kg of a high grade gold ore.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
Sample	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-1M-1	1.10	1.09	1.00	1.03	1.07	1.09	1.11	1.12	1.23	1.14	1.05	1.06	1.12	1.00	1.08
GS-1M-2	1.01	1.10	1.01	1.06	1.20	1.18	0.99	1.07	1.11	1.12	0.99	1.04	1.09	1.07	1.09
GS-1M-3	0.99	1.11	1.04	1.09	1.15	1.10	0.81	1.05	1.13	1.15	1.06	1.01	1.08	1.01	1.06
GS-1M-4	1.00	1.15	1.12	1.04	1.12	1.14	1.10	1.08	1.08	1.15	1.03	1.08	1.06	1.01	1.04
GS-1M-5	1.07	1.13	1.08	1.13	1.13	1.17	1.01	1.02	1.17	1.11	0.99	1.01	1.06	1.04	1.04
GS-1M-6	1.04	1.05	1.03	1.13	1.19	1.19	0.87	1.09	1.06	1.09	0.99	1.10	1.09	1.06	1.04
GS-1M-7	1.10	1.08	1.01	1.07	1.16	1.12	1.03	1.06	1.15	1.07	1.06	1.08	1.14	0.98	1.09
GS-1M-8	1.04	1.04	1.06	1.10	1.13	1.04	1.05	1.11	1.20	1.15	1.02	1.09	1.05	0.99	1.07
GS-1M-9	1.08	1.08	1.09	1.07	1.12	1.05	1.11	1.07	1.10	1.09	1.05	1.09	1.15	1.01	1.05
GS-1M-10	1.09	1.10	1.13	1.02	1.11	1.11	1.03	1.13	1.05	1.07	1.05	1.05	1.09	0.97	1.09
Mean	1.05	1.09	1.06	1.07	1.14	1.12	1.01	1.08	1.13	1.11	1.03	1.06	1.09	1.01	1.06
Std. Dev'n	0.0418	0.0321	0.0451	0.0382	0.0380	0.0502	0.1003	0.0337	0.0596	0.0327	0.0296	0.0341	0.0340	0.0323	0.0209
%RSD	3.98	2.94	4.26	3.56	3.35	4.50	9.92	3.12	5.28	2.94	2.88	3.22	3.11	3.19	1.96

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent			Percent
SiO2	65.6		Na2O	3.2
Al2O3	14.0		MgO	2.5
Fe2O3	6.4		K2O	1.2
CaO	4.6		TiO2	0.6
MnO	0.1		LOI	1.5
Total S	0.1			

REFERENCE MATERIAL: CDN-GS-1M

Statistical Procedures:

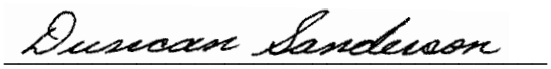
The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Acme Analytical Laboratories Ltd., Santiago, Chile
Activation Laboratories, Ancaster, Ontario, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada
AGAT, Mississauga, Ontario, Canada
ALS Chemex, North Vancouver, B.C., Canada
ALS, Loughrea, Ireland
Alex Stewart Argentina SA
Certimin, Lima, Peru
Intertek - Genalysis Lab Services, Perth, Australia
SGS, Lakefield, Ontario, Canada
SGS, Lima, Peru
Skyline Laboratoreis, Arizona, USA
TSL Laboratories Ltd., Saskatoon, SK, Canada
Ultra Trace Laboratories Ltd., Perth, Australia

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by 

Duncan Sanderson, Certified Assayer of B.C.

Geochemist 

Dr. Barry Smee, Ph.D., P. Geo.

CDN Resource Laboratories Ltd.

#2, 20148 – 102nd Avenue, Langley, B.C., Canada, V1M 4B4, 604-882-8422, Fax: 604-882-8466 (www.cdnlabs.com)

REFERENCE MATERIAL: CDN-GS-3L

Recommended value and the "Between Laboratory" two standard deviations

Gold concentration: 3.18 ± 0.22 g/t (30g Fire Assay / Instrumental finish)

PREPARED BY: CDN Resource Laboratories Ltd.
CERTIFIED BY: Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia
INDEPENDENT GEOCHEMIST: Dr. Barry Smee., Ph.D., P. Geo.
DATE OF CERTIFICATION: June 24, 2013

ORIGIN OF REFERENCE MATERIAL:

Standard CDN-GS-3L was prepared using 780 kg of a blank granitic ore and 22 kg of a high grade gold ore.

METHOD OF PREPARATION:

Reject ore material was dried, crushed, pulverized and then passed through a 270 mesh screen. The +270 material was discarded. The -270 material was mixed for 5 days in a double-cone blender. Splits were taken and sent to 15 commercial laboratories for round robin assaying. Round robin results are displayed below:

	Lab 1	Lab 2	Lab 3	Lab 4	Lab 5	Lab 6	Lab 7	Lab 8	Lab 9	Lab 10	Lab 11	Lab 12	Lab 13	Lab 14	Lab 15
Sample	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t	Au g/t
GS-3L-1	2.80	3.34	3.09	3.47	3.18	3.17	2.98	3.33	3.15	3.11	2.99	3.20	3.15	3.03	3.04
GS-3L-2	2.83	3.28	3.21	3.23	3.35	3.25	3.21	3.45	3.04	3.05	3.20	3.31	3.24	3.09	3.04
GS-3L-3	2.86	3.28	2.97	3.45	3.24	3.28	3.16	3.23	3.03	3.17	3.21	3.31	3.15	3.18	3.07
GS-3L-4	3.05	3.27	3.40	3.24	3.15	3.20	3.28	3.30	3.14	3.13	2.97	3.22	3.32	3.08	3.04
GS-3L-5	2.90	3.23	3.12	3.20	3.40	3.15	3.15	3.32	2.83	3.18	3.08	3.24	3.32	3.23	3.07
GS-3L-6	3.08	3.24	3.15	3.38	3.16	3.25	3.05	3.21	3.14	3.03	3.13	3.25	3.23	2.90	3.13
GS-3L-7	3.05	3.34	3.08	3.41	3.34	3.16	3.14	3.26	3.04	3.16	3.24	3.27	3.24	3.28	3.11
GS-3L-8	3.05	3.39	2.99	3.23	3.25	3.13	3.02	3.26	3.10	3.09	2.99	3.37	3.22	3.24	3.05
GS-3L-9	2.96	3.29	3.42	3.22	3.19	3.11	3.02	3.14	3.03	3.18	3.32	3.22	3.11	3.10	3.13
GS-3L-10	2.96	3.36	3.34	3.22	3.30	3.11	3.24	3.31	3.00	3.06	3.20	3.19	3.15	3.14	3.08
Mean	2.95	3.30	3.18	3.31	3.26	3.18	3.13	3.28	3.05	3.12	3.13	3.26	3.21	3.13	3.08
Std. Dev'n	0.1024	0.0529	0.1605	0.1080	0.0886	0.0614	0.1029	0.0831	0.0946	0.0566	0.1209	0.0560	0.0724	0.1130	0.0368
%RSD	3.47	1.60	5.05	3.27	2.72	1.93	3.29	2.53	3.10	1.82	3.86	1.72	2.25	3.62	1.20

Note: Results from laboratory 1 were excluded for failing the t test.

APPROXIMATE CHEMICAL COMPOSITION (by whole rock analysis):

	Percent			Percent
SiO2	66.8		Na2O	2.9
Al2O3	13.0		MgO	2.4
Fe2O3	6.9		K2O	1.1
CaO	4.4		TiO2	0.6
MnO	0.1		LOI	1.6
Total S	0.1			

REFERENCE MATERIAL: CDN-GS-3L

Statistical Procedures:

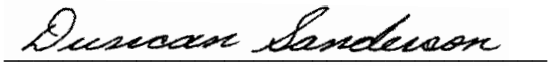
The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The mean and standard deviation were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

Participating Laboratories: (not in same order as table of assays)

Acme Analytical Laboratories Ltd., Vancouver, B.C., Canada
Acme Analytical Laboratories Ltd., Santiago, Chile
Activation Laboratories, Ancaster, Ontario, Canada
Activation Laboratories, Thunder Bay, Ontario, Canada
Activation Laboratories, Kamloops, B.C., Canada
Alex Stewart Argentina S.A.
ALS Chemex, North Vancouver, B.C., Canada
ALS, Loughrea, Ireland
Certimin, Lima, Peru
Genalysis Lab Services, Australia
Labtium, Finland
SGS, Lima, Peru
SGS, Lakefield, Ontario, Canada
TSL Laboratories Ltd., Saskatoon, SK, Canada
Ultra Trace Laboratories Ltd., Australia

Legal Notice:

This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. nor Barry Smee accept any liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by 

Duncan Sanderson, Certified Assayer of B.C.

Geochemist 

Dr. Barry Smee, Ph.D., P. Geo.