

ASSESSMENT REPORT OF WORK DONE:

MAPPING AND PROSPECTING (AUGUST 26 – 28, 1998)



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September, 1998

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Introduction

Canmine Resources Corporation of London, Ontario under took a mapping and prospecting program on it's Emerald Lake claims between August 23 and September 13, 1998 (Dates include travel time). The property includes three contiguous and three discontiguous claims. The mapping and prospecting was conducted by Kevin G. Murphy, B.A., B.Sc. (Geology), of Canmine Resources Corporation's Winnipeg office. This report deals with claim 1184524.

Location and Access

Claim 1184524 is part of the Emerald Lake cobalt-copper prospect (MDI-41116NW-00054, Mineral Deposit Inventory, Ontario Ministry of Northern Development and Mines) located about 60 kilometers northeast of Sudbury, Ontario in Afton Township (Fig.1)

The property is accessible by road year round by taking Highway 539 west at Sturgeon Falls to Highway 805 north at River Valley. Highway 805 continues north to the northern tip of Emerald Lake, giving complete access to the lake (Fig.2)

The claim is situated in the north central portion of the second main peninsula north of the southeast bay of Emerald lake, and roughly one claim length (400 meters) west of Highway 805 (Fig.3).

Property Status

Claim 1184524 was staked on September 17, 1996 by A.J. Maciejewski of Red Lake, Ontario. The holder of the claim is recorded as William Ferriera, Suite 1605-275 Dundas St., London ON, N6B 3L1. The claim is owned 50-50% by Canmine Resources Corporation and Red Engine Resources Corporation and is a discontiguous part of a group of claims held in the area by the above two companies.

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Exploration History

The exploration history of the claim is summarized in Table 1.



01994 MAGELLAN Gaographix MSanta Barbara, CA (800) 929-4MAP

Figure 1

2.18897





Contour Interval 10 Metres

Figure 3. Claim location Map.

	Table 1: Summary o	f Exploration History	
Year	Company	Type of Work	
1954	Church, T.M.	1 DDH 800 ft. trenching	
1956	Wabico Mines Ltd.	3DDH Geological mapping Self-potential survey Magnetometer survey	

In 1954 T.M. Church undertook trenching and one diamond drill hole (XRL #8) on claim S-52952 in the area now corresponding to the eastern portion of claim 118524. XRL #8 was drilled to the northeast at -50 degrees for a length of 128 feet. The trench was hand drilled and blasted for a length of 800 feet, width of 5 feet and depth of 2 feet in a northwest/southeast direction.

In 1956, Wabico Mines Ltd. conducted geological mapping, geophysical surveying and diamond drilling on the then S-88454 and S-91063 claims in roughly same area as T.M. Church's claim mentioned above. Assays of 0.5 % copper were returned in this area on one of the showings.

Regional Geology

The Emerald Lake property is located about 60 kilometers northeast of the large Sudbury Basin nickel ore bodies and about 70 kilometers southwest of the Cobalt, Ontario, Cobalt-Silver Mining Camp. The property occurs within a small volcanic-sedimentary sequence that is surrounded by the Nipissing Diabase Intrusions. The Golden Rose Gold Mine (145,589 tones @ 0.30 oz/ton Au) is located about 1 kilometer north of the property in the same volcanic-sedimentary sequence.

The property occurs within an outlier of the Temagami Greenstone Belt, Neo- to Mesoarchean (2.5 to 3.4 Ga.) rocks of the Western Abitibi Subprovince (Ontario Geological Survey, 1991). These rocks consist of flow and fragmental metavolcanic rocks, ranging from rhyolite to basalt, chert, iron formation, minor metasedimentary and intrusive rocks, and related migmatites. These rocks have been intruded by coeval tholiitic pyroxenite-gabbro-anorthosite sills, a layered komatiitic dunite-peridotite-gabbro plug, calc-alkalic diorite and quartz diorite sills. Later intrusions include tonalite and granite batholiths, and lamprophyre and pyroxenite dykes (Jackson and Fyon, 1991).

Rocks are generally metamorphosed to greenschist facies, with the exception of rocks near granitiod batholiths, which are metamorphosed to amphibolite facies (Jackson and Fyon, 1991). Rocks of the outlier of the Temagami Grenstone Belt occur in the Emerald Lake area generally strike east-west with near vertical dips, and an easterly penetrative foliation. Block faulting affected the region from Early to Late Precambrian time, and is considered by Meyn (1977) to be the "most important structural element" in the area. Meyn (1977) defines four groups of block faults:

- 1) N20 degrees E to N40 degrees E trending, the most prominent.
- 2) North-south trending.
- 3) Small faults N30 degrees W to N50 degrees W trending.
- 4) S50 degrees E to S70 degrees E, parallel to diabase dykes.

The later set are considered to be late tensional features (Meyn, 1977).

Outliers of the Temagami Greenstone Belt generally are considered different fault blocks; defined stratigraphic-structural assemblages have not been traced from the main Temagami Greenstone Belt proper.

Most of the rocks in the larger Afton Township region are part of the Huronian Supergroup of Paleoproterozoic metasedimentary rocks, specifically the Upper Huronian Cobalt Embayment assemblage, and Paleoproterozoic Nipissing sills. The Cobalt group was deposited between 2200 and 2450 Ma, and uncomformably overlies the Lower Huronian Quirke Lake and Hough Lake Groups (Ontario Geological Survey, 1991). Metamorphic facies in the Huronian Supergroup in this area is subgreenschist facies with diagenetic zones, near a metamorphic facies boundary with low to middle greenschist facies with chlorite and biotite zones. Nipissing sills are 2219 Ma diabase sills, dykes and related granophyres that cover a large part of the Lake Temagami area (Ontario Geological Survey, 1991).

Outliers of the Temagami Greenstone Belt, such as that at Emerald Lake, are several and not well understood. They have alternatively been hypothesized as ancient topographic hills and as small blocks upfaulted through the thick Huronian sedimentary succession; their origin remains unknown (K.Ferriera/W.Meyer pers. comm.).

The shaded total field magnetic map of the area shows a prominent ovoid magnetic anomaly directly to the northeast of the Sudbury magnetic anomaly (Gupta, 1991). This other prominent anomaly is similar in size and shape to the Sudbury structure, and mimics the Sudbury structure in its magnetic characteristics; it has plan dimensions of approximately 60 km x 20 km. This second anomaly is known as the Wanapitei structure, and a hypothesis of a magnetically responsive intrusion at depth is not supported by gravity data (K.Ferriera, Canmine Resources Corporation/W. Meyer, Ontario Geological Survey, pers. comm.). The Wanipitei anomaly is too large, too regional, and too poorly understood to bear a direct cause-effect relationship with the Emerald Lake cobalt occurrence. It is, however, undoubtedly a magnetically prominent structure that is the subject of some scientific and exploration interest because of its similarities with the Sudbury structure.

Most of the Afton Township area consists of Precambrian bedrock either exposed or wit only a discontinuous, thin layer of glacial drift (Barnett et al., 1991).

In the Emerald Lake area, historically known mineralization includes the New Golden Rose Gold Mine, located at the extreme western point of the northernmost peninsula on the east side of Emerald Lake. The New Golden Rose Mine produced 43,359 ounces of gold and 8,296 ounces of silver from 145,589 tons of ore from 1937 to 1941. Gold is associated with pyritized oxide-facies iron formation at this deposit. The iron formation is folded, faulted and brecciated in the vicinity of the former mine (Meyn, 1977).

Property Geology

The geology of the area is reproduced in Figure 4, part of a map by H.D. Meyn of the Ontario Geological Survey (1997). The description of the property geology is summarized from O.G.S. Report 170 by Meyn (1997).

The Emerald Lake copper prospect is hosted by Early Precambrian metasedimentary and felsic to intermediate metavolcanic rocks. Mapping and prospecting only delineated metavolcanics ranging between andesite and rhyolite. Diamond drilling by T.M. Church in 1954 describes encountering greywacke and breccia in hole XRL #8.

Outcrop on the property is scarce, with the claim predominantly till covered. A number of low wooded hills occur on the property and appear to be composed of mixed angular to subrounded boulders. It appears that many of the coarse till boulders were not transported far. No mineralization was noted in the outcrop encountered but some minor sulphides were noted in some angular boulders.

Work Done

Three days were spent mapping and prospecting on the claim. Five north-south lines spaced 100 meters apart and one east-west line were traversed and mapped. Two of the lines comprised the east and west claim lines and the one east-west line was run along the southern boundary of the claim. These traverses formed the basis of a base map to be used while prospecting.

While traversing the claim lines, old blazes were freshened up and new ones added to maintain the integrity of the claim boundary. Claim post locations were more precisely located using a GPS, and are recorded on figure 5.





LEGEND

Figure 4: Geology of Emerald Lake area (Meyn, O.G.S., 1977).



CLAIM No. 1184524

Post 1:

Post 2:

Post 3:

Post 4:

N 46 Degrees 55.127 Minutes W 80 Degrees 18.671 Minutes

N 46 Degrees 54.917 Minutes W 80 Degrees 18.592 Minutes

N 46 Degrees 54.281 Minutes

W 80 Degrees 18.904 Minutes

N 46 Degrees 55.068 Minutes

W 80 degrees 18.974 Minutes



	Outline of outcrop
	Strike and dip
(Contour of Hill or slope
⊬→	Direction of slope
	Claim post
• • • •	Boulders
¥	Swamp
* EL-24-1	Sample location
	Traverse lines

Scale: 1 Cm = 25 m

Figure 5. Property Geology Map.

As historically there are trenches and drill holes located on the property, these locations were attempted to be located in the course of prospecting. Priority was given to find outcrop for sampling.

Results of Work Done

Very little outcrop was located in the process of mapping and prospecting. Some rhyolitic outcrop was located in the north-west corner of the claim, and was found to be barren of sulphides. In the south-east corner of the claim in the vicinity of the number 2 post, outcrop containing andesite and minor gabbro was located. These lithologic units were also found to be barren of sulphides.

The majority of the claim was found to be till covered. Mixed boulders were common in the low till covered hills. On the north slope of a small hill along a dry creek bed, a small east-west trending rubbly boulder train was located. A few boulders contained minor trace pyrite. One sample EL-24-1 was taken on the east side of the of the boulder train. The results are listed below in Table 2.

Table 2: Assay results.

Au oz/t	Ag oz/t	Cu %	Pb %	Zn %	Ni %	Co%	Pt oz/t	Pd oz/t
< 0.001	<0.05	0.02	<0.01	0.01	0.01	<0.01	<0.0006	<0.0003

Attempts to locate both the T.M. Church trenching and drill hole locations and the Wabico Mines Limited drill hole locations were unsuccessful. The area shows signs of past logging activity which may have destroyed the evidence of this previous exploration work. The possibility also exists that the current claim location is not well situated relative to the previous claim locations.

Recommendations

As prospecting and mapping were unsuccessful in locating the occurance of any significant mineralization, a different approach should be taken. A grid should be cut over the property and a geophysical survey should be conducted to locate targets for drilling.

References

Meyn, H.D., 1977. Geology of Afton, Scholes, Macbeth, and Clement Townships, Districts of Sudbury and Nipissing; Ontario Geological Survey Report 170, 77p.

Gupta, V.K., 1991. Shaded image of total magnetic field of Ontario, east-central sheet; Ontario Geological Survey, Map 2586, scale 1:1 000 000.

Jackson, S.L. and Fyon, J.A., 1991. The Western Abitibi Subprovince in Ontario; *in* Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p. 405-484.

Ontario Geological Survey, 1991. Bedrock geology of Ontario, east-central sheet; Ontario Geological Survey, Map 2543, scale 1:1 000 000.

Ontario Geological Survey, 1992. Chart 3 – Proterozoic tectonic assemblages, plutonic suites and events in Ontario; Ontario Geological Survey, Map 2581.

Respectfully Submitted

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Kevin G. Murphy, B.A., B.Sc.



References

Meyn, H.D., 1977. Geology of Afton, Scholes, Macbeth, and Clement Townships, Districts of Sudbury and Nipissing; Ontario Geological Survey Report 170, 77p.

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Respectfully Submitted

Kevin G. Murphy, B.A., B.Sc.

Appendix I

Statement of costs



Appendix II

Assays

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SAMPLE(S) FROM Canmine Resources Corporation 200 - 5 Donald Street Winnipeg, Manitoba R3L 2T4

REPORT No.
57914

INVOICE #: 31873 P.O.:

K. Murphy Project: Temagami

Grab Rock

Sample EL-28-4 was not received

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CCPIES TO: W. Ferreira, T. Ellwood INVOICE TO: Canmine Resources - Winnipeg

Sep 15/98

SIGNED _____

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SAMPLE(S) OF

T S L LABORATORIES

DNISION OF TELIASSAYERS INC.

2 - 302 - 48 th STREET, SASKATOON, SASKATCHEWAN S7K 6A4 306) 931-1033 FAX: (306) 242-4717

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VD, WPC, MARY, IC2COY8 Telephone Number Fax Number Telephone Number Telephone Number Fax Number	ddress		Fax Number
Fax Number Telephone Number Fax Number	ame [0] ST. MARTIM	BLUD, WPG, MARI, Racor	Telephone Number
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	ddress		Fax Number
r Agent Gran do hereby certify that I have personal	KE-VIN G. Address LOI ST. MARTIN Name Address Name	NUMPHY BLUD, WPG, MARY, R2COY older or Agent FERIENS, do hereby certify that I hav	Fax Numb Fax Numb Fax Numb Telephone Fax Numb Fax Numb
	(Print Name) Declaration of Assessment Wo ipletion and, to the best of my	ork having caused the work to be performed or knowledge, the annexed report is true.	or witnessed the same during or after its
ng caused the work to be performed or witnessed the same during or after its ge, the annexed report is true.	gnature of Recorded Hoter or Age	n	Date SEDT 27 100 8
ng caused the work to be performed or witnessed the same during or after its ge, the annexed report is true.	gent's Address	Telephone Num	ber Fax Number
ng caused the work to be performed or witnessed the same during or after its ge, the annexed report is true. Date SEPT 22, 199 8 Telephone Number Fax Number	10007 275 DUNDAS 3	T., LONDON, ONT. (SI9) 858 NGB 3L1	- 4000
ng caused the work to be performed or witnessed the same during or after its ge, the annexed report is true. Date SEPT 22, 1998 Telephone Number (204) 472-0695 0 ~ Date 1-204 284-0130 0 ~ Date SEPT 22, 1998 Fax Number 1-204 284-0130 B 3L1			R I lan



109870.00547.

Statement of Costs and Expenditures (Pro-rated)

SEP 2 3 1998

GEOSCIENCE ASSESSMENT

OFFICE

Mapping and Prospecting	2.18	ଽୢଽ
Gasoline within Ontario (\$431.79 x 0.25)	\$107.95	
Food/Meals within Ontario (\$169.91 x 0.25)	\$42.48	
Hotels while in transit in Ontario (\$230.97 x 0.25)	\$57.74	
Emerald Lake Camp (4 days @ \$63.16 per day)	\$252.63	
Photocopies/ Govt. Reports (\$35.39 x 0.25)	\$8.85	
Sample Shipping from Ontario (of one sample)	\$ 2.57	
Sample Assays (1 Whole rock, 1 multi-assay)	\$61.00	
Geological Services (mapping, prospecting, report preparation	a) <u>\$600.00</u> Total \$1133.23	
TOTAL EXPENDITURES FOR WORK DETAILED IN THIS REPORT	\$1133.23	

I hereby certify that the foregoing represent expenditures that were made by Canmine Resources Corporation for mineral exploration on claim 1184524 detailed in the foregoing report.

É

William S. Ferreira Senior Geologist

Dated September 22, 1998 at Winnipeg, Manitoba

LONDON	275 Dundas Street, Suite 1605, London, Ontario N6B 3L1 Ph: (519) 858-4000 Fax: (519) 858-4825
MONTREAL	3431 Drummond Street, Suite 200, Montreal, Quebec H3G 1X6 Ph. (514) 953-1584 Fax: (514) 695-4323
WINNIPEG	5 Donald Street, Suite 200, Winnipeg, Manitoba R3L 2T4 Ph: (204) 477-0695 Fax: (204) 284-0130
LAC DU BONNET	36B McArthur Avenue, P.O. Box 1349, Lac Du Bonnet, Manitoba R0E 1A0 Ph: (204) 345-1922 Fax: (204) 345-2092

Sec. Sec.

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

November 4, 1998

WILLIAM SCANLON FERREIRA 91 LAKESHORE ROAD WINNIPEG, MANITOBA R3T-4A7



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18897

. . .

 Subject: Transaction Number(s):
 W9870.00547
 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

a the

ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

Work Report Assessment Results

Submission Numb	ber: 2,18897				
Date Corresponde	nce Sent: Novemb	per 04, 1998	Assessor: Steve Bene	eteau	
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date	
W9870.00547	1184524	AFTON	Deemed Approval	October 31, 1998	
Section: 9 Prospecting PRO	SP				
Correspondence t Resident Geologist Sudbury, ON	o:		Recorded Holder(s) WILLIAM SCANLON WINNIPEG, MANITC	and/or Agent(s): N FERREIRA DBA	
Assessment Files L Sudbury, ON	ibrary				



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