

3763

GEOCHEMICAL REPORT
JIG & G.J. CLAIMS, HOMFRAY LAKE, B.C.
50° 120°
FOR
CONSOLIDATED STANDARD MINES LTD. (NPL)
AND
HIGHHAWK MINES LTD. (NPL)
BY
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JUNE 19 to JULY 3, 1972

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3763 MAR

L. J. Manning & Associates Ltd.
310 - 890 West Pender Street
Vancouver, B.C.

July 27, 1972.

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DRAWING

Scale

| Geochemical plan with location of lines with respect to
claim boundaries

1"=400'

In pocket

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INTRODUCTION:

The following report is on a geochemical soil survey over the JIG AND G.J. claims, Homfray Lake, B.C.

GENERAL GEOLOGY AND TOPOGRAPHY:

The claims are underlain by Upper Triassic volcanics of the Nicola Group, with minor sedimentary interbeds.

Area mineralization consists of chalcocite, cuprite, azurite and malachite associated with shear zones.

Topography is flat to moderate with maximum relief of 200'.

SAMPLED SOIL HORIZON:

Soils were taken from the "B" horizon at depths of from 8"-10" below surface.

SAMPLING PROCEDURE:

Samples were taken on a line grid basis. This grid was at a 400' line interval on 200' stations. A mattock was used to reach the "B" horizon where a 30-40 gram sample was placed in standard 4" x 9" soil sample envelopes. Samples were not taken where swampy ground was located, arising in excessive depth to the "B" horizon.

Samples were partially air-dried and then shipped to Crest Laboratories, Vancouver.

SAMPLE PREPARATION AND LABORATORY ANALYSIS:

Crest Laboratories treated the samples in the following manner:

- drying
- sieve to -80 mesh fraction
- hot extraction by $\text{HClO}_4 + \text{HNO}_3$
- atomic absorption analysis for copper in parts per million.

SUMMARY AND CONCLUSIONS:

Background for copper was determined to be 47 p.p.m. with threshold taken as 2 x background or 94 p.p.m.

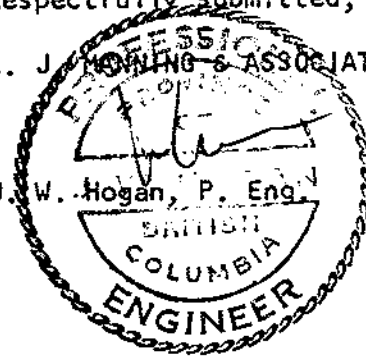
An anomalous soil copper zone extends north-east from at least 28N (baseline) to 44N-16E, a distance of 2200'.

Another possibly anomalous zone extends from 48N-22W to 60E-16E for a distance of 1400'.

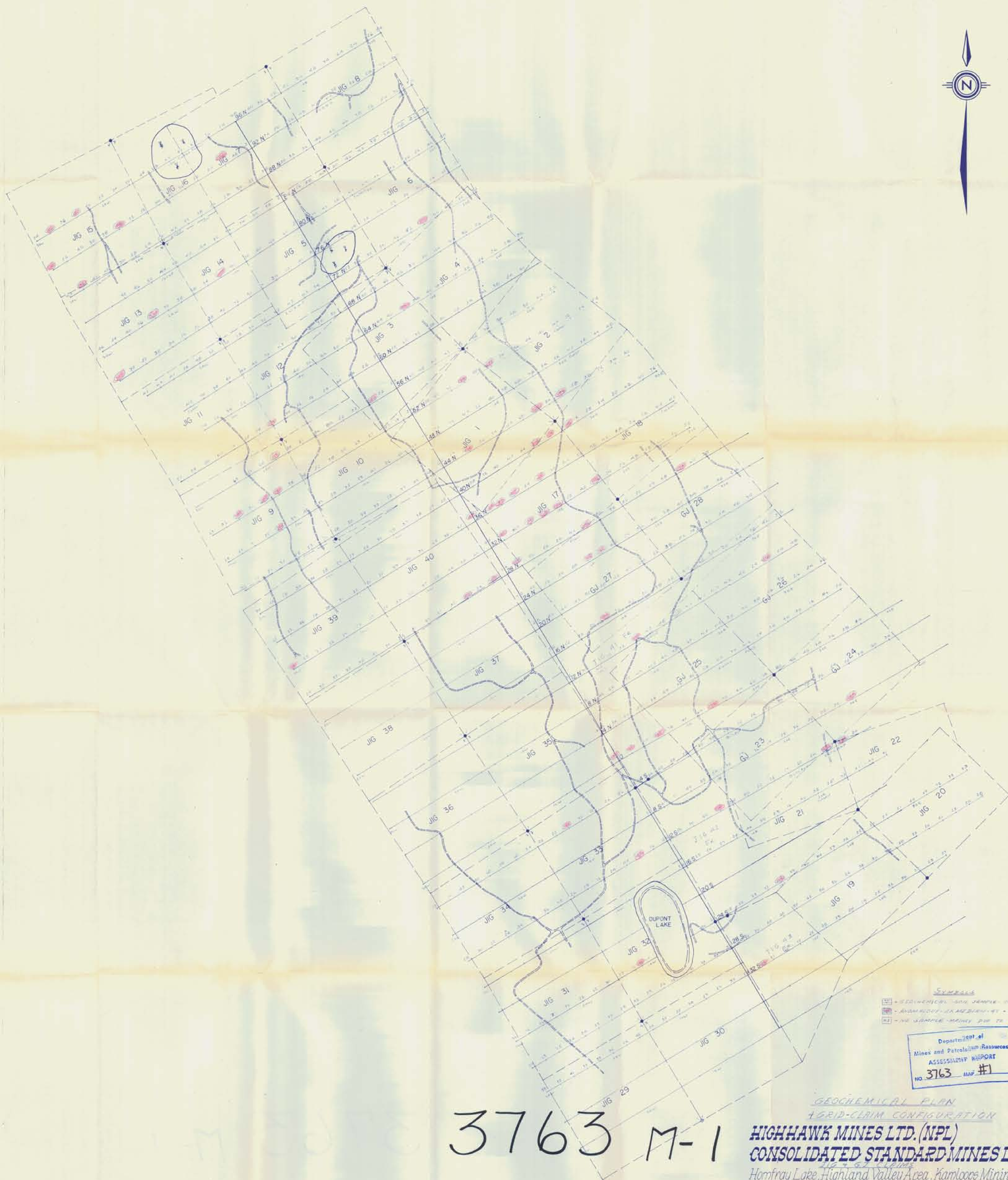
Respectfully submitted,

L. J. MANNING & ASSOCIATES LTD.

J. W. Hogan, P. Eng.



JWH:kd1



SYMBOLS
- 50 GRAMS/TON DRY SAMPLE COPPER PERCENT
- 100 GRAMS/TON DRY SAMPLE COPPER PERCENT
- 100 GRAMS/TON DRY SAMPLE COPPER PERCENT

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
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**GEOCHEMICAL PLAN
& GRID-CLAIM CONFIGURATION**
HIGHHAWK MINES LTD. (NPL)
CONSOLIDATED STANDARD MINES LTD. (NPL)
Homfray Lake, Highland Valley Area, Kamloops Mining Division
Scale: 1" = 400' Ref. Map 921/7