



BATCH 186-158

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

PROPERTY FILE

007222

ANALYTICAL SERVICES REQUEST

Submitter G.V. White
 Number of samples One
 Special instructions What is the green mineral
 Project _____
 Air photo _____

Date submitted Dec 10¹⁸⁶
 Date required _____
 Area Mt Washington
 Card 1 of 1

Date started Dec 12/86 (N.C. cards)
 Date reported Jan 28/87 (Spec subsequently requested.)
 Chief Analyst W.M. Johnson
 PRINT CLEARLY (use dark pen or pencil)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

NTS FLD NOZ NUTM E UTM N RXYAGS PROPERTY COMMENTS

92F-11/Wash-1 ALRZSOI? MT. WASHINGTON - What is the green mineral - X-Ray

LAB NOOXIDESPECXRD MINPRPAu Ag Cu Pb Zn Co Ni Mo Cr Hg As Sb Ba Sr

32962 C P SQ Q ✓ SEP

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C P SQ Q SEP

SPECTROGRAPHIC REPORT

1	Si >10.0 Al 9.0 Mg 0.5 Ca 0.6 Fe 0.7 Pb T Cu 3.0 Zn T Mn 1.2 Ag T V T Ti 0.1 Ni T Co 0.03 Na 0.5 K 1.8 W —, As 0.8, Mo 0.05, Ba 0.2 TRACE: Cr, B, Y, Zr	2	Si >10.0 Al 8.0 Mg 2.5 Ca 0.5 Fe 5.5 Pb T Cu >10.0 Zn T Mn 0.35 Ag T V T Ti 0.4 Ni 0.013 Co 0.03 Na 0.5 K 1.0 W —, As >5.0, Mo 0.02 TRACE: Sb, Zr, Sr, Ba, Cr	3	Si ___ Al ___ Mg ___ Ca ___ Fe ___ Pb ___ Cu ___ Zn ___ Mn ___ Ag ___ V ___ Ti ___ Ni ___ Co ___ Na ___ K ___ W ___
4	Si ___ Al ___ Mg ___ Ca ___ Fe ___ Pb ___ Cu ___ Zn ___ Mn ___ Ag ___ V ___ Ti ___ Ni ___ Co ___ Na ___ K ___ W ___	5	Si ___ Al ___ Mg ___ Ca ___ Fe ___ Pb ___ Cu ___ Zn ___ Mn ___ Ag ___ V ___ Ti ___ Ni ___ Co ___ Na ___ K ___ W ___	6	Si ___ Al ___ Mg ___ Ca ___ Fe ___ Pb ___ Cu ___ Zn ___ Mn ___ Ag ___ V ___ Ti ___ Ni ___ Co ___ Na ___ K ___ W ___

X-RAY DIFFRACTION REPORT AND COMMENTS

32962 Wash-1 The bluish green coating on the submitted specimen is amorphous. It appears to be some sort of pigment, probably artificial.

Two subsamples dominated by the green coating were subsequently scraped off from the submitted specimen for emission spectrographic analysis. Because the coating is extremely thin, variable amounts of underlying material were unavoidably included in the subsamples. Among these, quartz and muscovite are the only crystalline phases identified. These two minerals account for most of the Si, Al and K contents of the subsamples while Mn and some Fe are probably hosted by the amorphous black hydrated manganese oxide and yellowish brown limonite. Thus, the green coating appears to be a compound or a mixture of compounds of Cu, As and minor Mg ± Fe ± other metals. A mixture of common pigments* consisting dominantly of chrysocolla (Cu₂O₃·nH₂O), emerald green [Cu(C₂H₃O₂)₂·3Cu(AsO₂)₂] and minor green earth (mainly celadonite) would have similar composition and physical properties as the green material. However, whether the coating is really a mixture of such pigments or not is beyond the current capability of our laboratory to confirm.

KEY

COLUMNS 28-31

UMFC	ultramafic
ANDS	andesite
BSLT	basalt
CRBN	carbonatite
DCIT	dacite
DORT	diorite
GBBR	gabbro
GRNT	granite
GRDR	granodiorite

GRNS	greenstone
MNZN	monzonite
OBSD	obsidian
PNLT	phonolite
QZPP	quartz porphyry
RYLT	rhyolite
SRPN	serpentinite
SNKN	shonkinite
SYNT	syenite

TRCT	trachyte
TUFF	tuff
AMPB	amphibolite
CLCC	calc-silicate
GNSS	gneiss
MRBL	marble
PLLT	phyllite
SCST	schist
HRFL	hornfels

SKRN	skarn
GOUG	gouge
ARGL	argillite
CHRT	chert
COAL	coal
DLMT	dolomite
LMSN	limestone
MARL	marl
QRTZ	quartzite

SNDS	sandstone
SHLE	shale
SLSN	siltstone
MRLZ	mineralization
MVSP	massive sulphide
DISS	disseminated
SCKK	stockwork
VEIN	vein
ALRZ	alteration

* See Handbook of Chemistry and Physics.

Also, a compound similar to malachite is not suspected because the green coating was decomposed by 10% HCl without effervescence.

ANALYTICAL METHOD

AA	ATOMIC ABSORPTION
AH	HYDRIDE GENERATION
FA	FIRE ASSAY
ES	EMISSION SPEC
XR	X-RAY FLUORESCENCE
WC	WET CHEMICAL
CL	COLORIMETRIC
CV	COLD VAPOUR

COLUMNS 32 - 33

04	Proterozoic	12	Cambrian	21	Mississippian	34	Jurassic
05	Helikian	14	Ordovician	22	Pennsylvanian	36	Cretaceous
06	Hadrynian	16	Silurian	24	Permian	40	Cenozoic
10	Paleozoic	18	Devonian	30	Mesozoic	42	Tertiary
11	Prot.-Paleozoic	20	Carboniferous	32	Triassic	44	Quaternary
						50	Unknown

COLUMN 34

SAMPLE TYPE

1	Single grab sample
2	Channel/chip
3	Composite sample
4	Drill core
5	Talus or transported
6	Soil
7	Silt
8	Other

COLUMN 35

% SULPHIDE

0	<0.5
1	0.5-1
2	1-10
3	10-50
4	>50

SAMPLE PREPARATION

W	TUNGSTEN CARBIDE
C	CERAMIC
S	STEEL

COLUMNS 36 - 43

Mineral Inventory Number or property name

COLUMNS 44 - 80

Comments