

Appendix 4J

GEOLOGICAL SURVEY OF CANADA

Banks Island Samples - Overburden Drilling Management LABORATORY ABBREVIATIONS

SEDIMENT LOG

<p>Largest Clasts Present: G: Granules P: Pebbles C: Cobbles</p> <p>Clast Composition: V/S: Volcanics and/or sediments GR: Granitics LS: Limestone, carbonates OT: Other Lithologies (refer to footnotes) TR: Only trace present NA: Not applicable OX: Very oxidized, undifferentiated</p> <p>Matrix Grain Size Distribution: S/U: Sorted or Unsorted SD: Sand (F: Fine; M: Medium; C: Coarse) ST: Silt CY: Clay Y: Fraction present +: Fraction more abundant than normal -: Fraction less abundant than normal N: Fraction not present</p>	<p>Matrix Organics: ORG: Y: Organics present in matrix N: Organics absent or negligible in matrix +: Matrix is mainly organic</p> <p>Matrix Colour: Primary: BE: Beige PP: Purple BR: Brick Red PK: Pink GY: Grey PB: Pink-Beige GB: Grey-beige GN: Green GG: Grey-green MN: Maroon</p> <p>Secondary (soil): OC: Ochre BN: Brown BK: Black</p> <p>Secondary Colour Modifier: L: Light M: Medium D: Dark</p>
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GOLD GRAIN LOG

<p>Thickness: VG: Visible gold grains M: Actual measured thickness of grain (microns) C: Thickness of grain (microns) calculated from measured width and length</p>

KIM (kimberlite indicator mineral) LOG

<p>GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope) GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked separately) IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces CR: Chromite FO: Forsterite</p>
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MMSIM (metamorphosed or magmatic massive sulphide indicator mineral) and PCIM (porphyry Cu indicator mineral) LOGS

Adr: Andradite	Cpy: Chalcopyrite	Gth: Goethite	Opx: Orthopyroxene	St: Staurolite
Ap: Apatite	Cr: Chromite	Ilm: Ilmenite	Py: Pyrite	Tm: Tourmaline
Ase: Anatase	Fay: Fayalite	Ky: Kyanite	Sil: Sillimanite	Ttn: Titanite
Aspy: Arsenopyrite	Gh: Gahnite	Mz: Monazite	Sp: Spinel	Zir: Zircon
Ax: Axinite	Gr: Grossular	Ol: Olivine	Sps: Spessartine	