

## Appendix 4J

### GEOLOGICAL SURVEY OF CANADA

#### Banks Island Samples - Overburden Drilling Management LABORATORY ABBREVIATIONS

##### SEDIMENT LOG

<p><b>Largest Clasts Present:</b></p> <p>G: Granules P: Pebbles C: Cobbles</p> <p><b>Clast Composition:</b></p> <p>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><b>Matrix Grain Size Distribution:</b></p> <p>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><b>Matrix Organics:</b></p> <p>ORG: Y: Organics present in matrix N: Organics absent or negligible in matrix +: Matrix is mainly organic</p> <p><b>Matrix Colour:</b></p> <p>Primary:</p> <table border="0"> <tr> <td>BE: Beige</td><td>PP: Purple</td></tr> <tr> <td>BR: Brick Red</td><td>PK: Pink</td></tr> <tr> <td>GY: Grey</td><td>PB: Pink-Beige</td></tr> <tr> <td>GB: Grey-beige</td><td></td></tr> <tr> <td>GN: Green</td><td></td></tr> <tr> <td>GG: Grey-green</td><td></td></tr> <tr> <td>MN: Maroon</td><td></td></tr> </table> <p>Secondary (soil):</p> <p>OC: Ochre BN: Brown BK: Black</p> <p><b>Secondary Colour Modifier:</b></p> <p>L: Light M: Medium D: Dark</p>	BE: Beige	PP: Purple	BR: Brick Red	PK: Pink	GY: Grey	PB: Pink-Beige	GB: Grey-beige		GN: Green		GG: Grey-green		MN: Maroon	
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##### GOLD GRAIN LOG

<p><b>Thickness:</b></p> <p>VG: Visible gold grains M: Actual measured thickness of grain (microns) C: Thickness of grain (microns) calculated from measured width and length</p>
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##### 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	Spi: Spinel	Zir: Zircon
Ax: Axinite	Gr: Grossular	Ol: Olivine	Sps: Spessartine	