

Appendix 2

Geological Survey of Canada
Banks Island KIM samples - KIMBERLITE INDICATOR MINERAL COUNTS BY ODM - SPIKED BLANKS AND DUPLICATE SAMPLES

Sample Number	Sample Material ¹	Sample Type	Base Material	Result Types	Number of Grains																											
					Selected MMSIMs ²									KIMs ³																		
					1.0 to 2.0 mm			0.5 to 1.0 mm			0.25 to 0.5 mm			1.0 to 2.0 mm						0.5 to 1.0 mm						0.25 to 0.5 mm						Total (KIMs)
					Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	Low-Cr diopside	Cpy	Gh	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	GP	GO	DC	IM	CR	FO	
15SUV017	R	Spiked sample	Bathurst blank #98	Lab results	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	6	0	0	0	6	0	0	0	0	0	0	17	
				Expected counts									2	0	0	0	2	3	6	0	0	0	6	0	0	0	0	0	0	19		
				%age recovered									100				0	100	100				100							89.5		
15SUV018	BFm	Primary KIM Sample		Lab results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3		
				Expected counts																												
15SUV019	BFm	Duplicate KIM Sample		Lab results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2		
				Expected counts																												
15SUV029	T	Spiked sample	Linton blank #4	Lab results	0	0	0	0	0	0	4	0	0	3	0	0	0	1	2	3	0	0	0	4	0	0	0	0	0	0	13	
				Expected counts									2	0	0	0	2	2	5	0	0	0	5	0	0	0	0	0	0	16		
				%age recovered									*150				50	100	60				80							81.3		
15SUV031	SS	Primary KIM Sample		Lab results	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1			
				Expected counts																												
15SUV055	SS	Duplicate KIM Sample		Lab results	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
				Expected counts																												
16SUV021	T	Spiked sample	Linton blank #22	Lab results	0	0	0	3	1	0	3	6	0	0	0	0	0	0	3	0	0	1	0	0	0	1	0	0	2	20	27	
				Expected counts									0	0	0	0	0	0	3	0	0	2	0	0	0	0	4	2	4	5	20	
				%age recovered															100			50				*	0	0	50	*400	55	
16SUV029	R	Spiked sample	Bathurst blank #103	Lab results	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	5	3	12		
				Expected counts									0	0	0	0	0	0	4	0	0	1	0	0	0	0	1	5	5	5	21	
				%age recovered															100			0				0	0	100	60	57.1		

¹Sample Material: BFm=Beaufort Formation, R=bedrock (grus), SS=stream sediment, T=till
²Metamorphosed/Magmatic Massive Sulphide Indicator Minerals; Cpy=Chalcopyrite, Gh=Gahnite
³Kimberlite Indicator Minerals: CR=Chromite, DC=Cr-diopside, FO=forsterite, GO=Eclogitic garnet, GP=Peridotitic garnet, IM=Mg-ilmenite