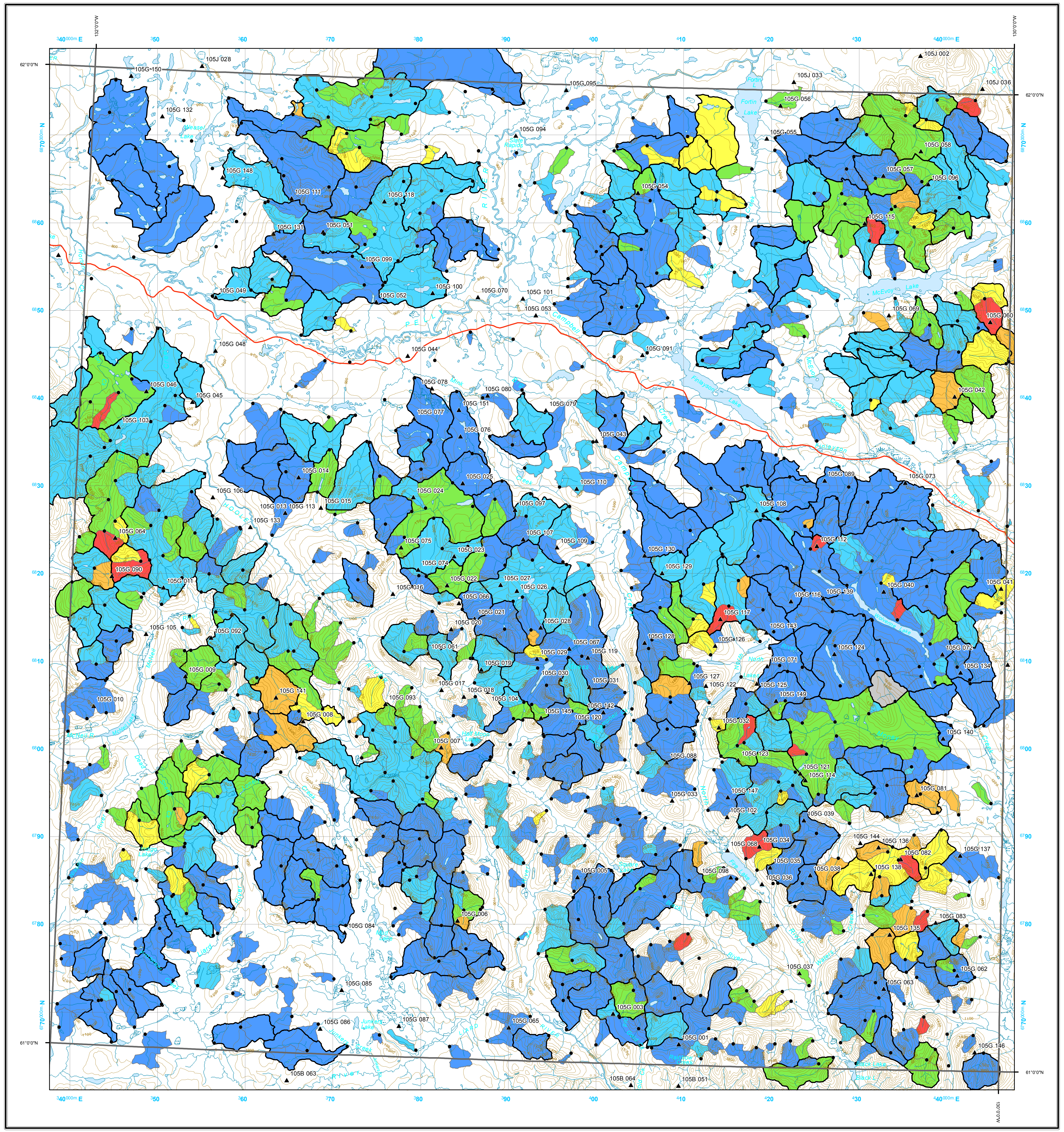

INTRODUCTION

New geochemical data from re-analysis of archived stream sediment samples have been assessed using weighted sums modeling and catchment basin analysis, as described in the methodology report that accompanies this map (Mackie *et al*., 2015). Both commodity and pathfinder element abundances are evaluated to highlight areas that show geochemical responses consistent with a variety of base- and precious-metal mineral deposit types. The results of modeling, completed using two approaches, are presented as a series of catchment maps and associated data files. This release is part of a regional assessment of stream sediment geochemistry that covers a large part of Yukon.

SAMPLING AND ANALYSIS PROGRAMS

Regional stream sediment and water samples from the Finlayson Lake map area (105G) were collected at a reconnaissance scale in 1987 as part of the National Geochemical Reconnaissance program. Field data for 914 sites and initial geochemical data were released in Geological Survey of Canada ("GSC") Open File 1648 (Friske and Hornbrook, 1988). In 2008, new geochemical data (ICP-MS) was released in GSC Open File 5696 (Friske *et al*., 2008a) and Yukon Geological Survey ("YGS") Open File 2008-3 (Friske *et al*., 2008b). The reader is referred to these open files for details regarding sampling techniques, analytical procedures and quality control and assurance. While the database contains information for 914 sample sites, only 871 have been included in this assessment as catchment basins (provided by the YGS) were only generated for those samples that could be reasonably assigned to a specific stream polyline. This unusually high proportion of 'omitted' sample sites is due to the difficulty of defining drainage basins in regions of subdued topography.

MINERAL OCCURRENCES

A variety of types of base and precious-metal mineralization have been documented in the map sheet as summarized in Table 1 (Yukon MINFILE, 2015). Several volcanogenic massive sulphide deposits have been discovered and encompass the Finlayson Lake VMS district. Various sub-classes or types have been documented including: volcanic-sediment hosted Wolverine-Lynx (Fetish Occurrence), Kuroko-type Kudz Ze Kayah (Tag Occurrence) and GP4F deposits, Besshi-type Fyre Lake deposit and Cyprus-type Ice deposits. Other notable occurrences in the region include the Tintina (105G), Groundhog, Ketzakey and Stumpy (105F) polymetallic Ag-Pb-Zn deposits (105G), Ketsa River Au deposit (105F), Anvil district Pb-Zn-Ag SEDEX (105K) and Grew Creek epithermal Au-Ag deposits (105K).

WEIGHTED SUMS MODELING

As described in the report accompanying this map (Mackie *et al*., 2015), two approaches have been used to subdue the influence of background lithological variation and secondary absorption on the composition of stream sediments. One uses data levelled by the dominant geology mapped within each catchment. The other uses residuals calculated from regression against selected principal components. Weighted sums models (WSM) have been generated using the processed data. Importance rankings used in the WSM for a variety of deposit types are summarized in Table 2. Each model is optimized for a specific deposit type however multiple deposit types may be represented in a given model due to similarities in elemental abundances and associations. A WSM model is also presented for potential hydromorphic anomalies related to scavenging of metal ions by secondary Fe and Mn-oxides.

Exploratory data analysis of both raw element data and principal components indicates that the distribution of many commodity and pathfinder elements is strongly controlled by lithological variation. The first principal component, accounting for ~30% of the total variation, shows high positive loadings for Cd, Se, Sb, Hg, Ba, Ag, Mo and Zn, and forms a coherent spatial trend that follows stratigraphy (*i.e.*, Earn, Askin and Jones Lake groups). The second principal component with high positive loadings in Ni, Cr, Co, Mg and Cu matches the distribution of mafic and ultramafic rocks. Regression analysis of selected metals against the relevant principal component(s) effectively removes these terrane-effects while preserving and in some cases enhancing, responses related to know occurrences. Levelling by dominant mapped lithology has a more subdue effect on filtering these the interpreted lithological control for certain elements (*e.g.,* Ag, Cd, Sb, Hg, Ba and Mo). In order to reduce this impact in the WSM these elements were given low importance rankings (or were omitted) for certain deposit types. Additionally, strong responses for Zn, Pb and Ag related to VMS and polymetallic Ag-Pb-Zn vein mineralization prevented using these elements as pathfinders for other deposit types. Negative rankings were assigned to certain variables to help differentiate deposit types with similar metal associations. For example, negative rankings for Pb and Zn are used in the WSM for Epithermal Au-Ag in order to reduce the contribution of Ag related to VMS mineralization.

The effectiveness of historical sampling coverage has been assessed empirically using graphs of WSMs plotted against catchment surface area to determine the ideal maximum catchment size (10 km^2). Catchments that cover larger areas (shown on the map with bold outlines) are interpreted to have been under-sampled and thus require further sampling to properly evaluate the area for geochemical anomalism. Given the likelihood that a mineralization 'signal' would be progressively diluted with increasing catchment size, marginally high WSM scores for samples in large catchments are also of interest.

Table 2: Importance rankings for weighted sums models using data levelled by dominant mapped geology.

Target Deposit Type[a]	Other Deposit Types[a]	Mn	Fe	Co	Ni	Cu	Mo	Zn	Pb	Ag	Au[1]	As	Ba	Cd	Sn	Sb	Te	Hg	Tl	Bi	W
Polymetallic Ag-Pb-Zn	SEDEX (high Ag); VMS							2	4	1		2									
VMS (Zn-rich)	SEDEX (low Ag); Pb-Zn skarn					2		4	3	1				2					1		
VMS (Cu-rich)				2		4	-2		-1	-1											
Intrusion-related Au	Epithermal Au-Ag							-1	-1		4	1					2			2	
Epithermal Au-Ag	High and low sulphidation							-1	-1	3	4					1		2			
Porphyry Cu-Mo	Cu-Au porphyry; Cu skarn					4	2	-1	-1	3	1										
W Skarn	W skarn and vein											1								2	3
Hydromorphic Anomaly		4	4	2								4									

[a] Polymetallic Ag-Pb-Zn type includes vein and manto styles; SEDEX = sedimentary exhalative; VMS = volcanic-hosted/associated massive sulphide deposits

[1] Au data are not levelled by dominant geology, instead $\log_{10}$ transformed raw data are used.

LEGEND

- ■ Town
- ▲ Mineral Occurrence
- Road
- Contour
- River
- NTS Map Sheet
- Water Body
- Wetland
- ● Sample_Location
- Catchment
- Catchment > 10 km²

Table 1: List of Mineral Occurrences for NTS map sheet 105G (Yukon MINFILE, 2015)

Number	Name	Type	Status	Commodities
105G 001	MONT	Vein Polymetallic Ag-Pb-Zn±Au	Prospect	Copper, Silver
105G 003	BLUEBERRY	Vein Polymetallic Ag-Pb-Zn±Au	Drilled Prospect	Copper, Silver, Zinc, Tungsten, Gold, Lead
105G 005	SLAM	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Copper, Zinc
105G 006	TINTINA	Manto Polymetallic Ag-Pb-Zn	Deposit	Bismuth, Gold, Silver, Zinc, Lead, Cadmium, Copper
105G 007	PLUMB	Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)	Showing	Lead, Silver, Zinc
105G 008	HASSELBERG	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Deposit	Silver, Lead, Zinc, Copper, Barite, Gold
105G 009	MCNEIL	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Showing	Copper
105G 010	HILLER	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Copper
105G 011	AXE	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Barite, Copper, Silver
105G 013	HOO	Skarn Pb-Zn	Drilled Prospect	Lead, Silver, Zinc
105G 014	CHER	Unknown	Anomaly	
105G 015	NAN	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Anomaly	
105G 016	EL	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Prospect	Arsenic, Silver, Zinc, Lead, Asbestos, Gold, Barite
105G 017	PICK	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Lead, Silver
105G 018	GRASS	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Molybdenum, Tungsten
105G 019	BOOT	Skarn W	Drilled Prospect	Copper, Lead, Zinc, Tungsten
105G 020	RILEY	Unknown	Anomaly	Arsenic, Beryllium, Lead, Tungsten, Copper
105G 021	ZIELINSKI	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Arsenic, Beryllium, Fluorite, Lead, Zinc, Silver, Copper
105G 022	OUR	Unknown	Unknown	
105G 023	GIL	Unknown	Unknown	Copper, Zinc
105G 024	GOD	Unknown	Anomaly	Copper, Zinc
105G 025	CHISHOLM	Unknown	Anomaly	
105G 026	RIVIERA	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Drilled Prospect	Copper, Zinc
105G 027	LEO	Vein Polymetallic Ag-Pb-Zn±Au	Prospect	Arsenic, Gold, Zinc, Lead, Copper
105G 028	GYP	Manto Polymetallic Ag-Pb-Zn	Prospect	Copper, Lead, Zinc
105G 029	GEE	Vein Polymetallic Ag-Pb-Zn±Au	Showing	
105G 030	PIT	Unknown	Showing	Copper, Silver, Gold, Uranium, Zinc
105G 031	ROB	Vein Au-Quartz	Showing	Copper, Zinc, Lead, Silver
105G 032	PAC	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Beryllium, Chromium, Gold, Lead, Zinc, Silver, Copper
105G 033	TAK	Unknown	Anomaly	Copper, Zinc
105G 034	FYRE	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Deposit	Cobalt, Copper, Zinc, Silver, Gold
105G 035	TOP	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Cobalt, Copper, Lead, Silver, Zinc, Gold
105G 036	DUB	Skarn Cu	Anomaly	Cobalt, Gold, Lead, Zinc, Silver, Copper
105G 037	BLACK	Unknown	Anomaly	Cobalt, Copper, Molybdenum, Zinc
105G 038	NORTH RIVER	Skarn Cu	Showing	Copper, Zinc, Lead, Silver
105G 039	VINCENT	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Copper, Zinc, Silver, Lead
105G 040	JAY	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Barite, Zinc, Lead
105G 041	FINLAYSON	Unknown	Anomaly	Copper, Nickel, Zinc
105G 042	MCEVOY	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Anomaly	
105G 043	BOT	Ultramafic-hosted asbestos	Showing	Asbestos
105G 044	MINK	Unknown	Unknown	
105G 045	STARR	Unknown	Anomaly	
105G 046	TAG	Unknown	Unknown	
105G 048	PUP	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Showing	Asbestos, Gold, Zinc, Lead, Copper
105G 049	COW	Unknown	Anomaly	
105G 051	CHOW	Volcanogenic Sulphide - type not determined	Prospect	Copper, Zinc, Gold, Lead
105G 052	DOL	Volcanogenic Sulphide - type not determined	Prospect	Copper, Zinc, Silver
105G 053	CAMPBELL	Coal	Anomaly	Coal
105G 054	SUN	Unknown	Anomaly	Zinc
105G 055	PHIL	Vein Polymetallic Ag-Pb-Zn±Au	Drilled Prospect	Copper, Lead, Zinc, Silver, Gold
105G 056	PAY	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Drilled Prospect	Gold, Silver, Zinc, Lead
105G 057	RIS	Vein Cu±Ag Quartz	Showing	Copper
105G 058	SPUD	Skarn Pb-Zn	Showing	Lead, Zinc
105G 060	JAKE	Skarn Pb-Zn	Showing	Copper, Zinc, Silver, Lead
105G 061	HOOLE	Skarn Pb-Zn	Showing	Arsenic, Lead, Zinc, Silver, Gold
105G 062	MAP	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Lead, Silver
105G 063	WATERS	Vein Polymetallic Ag-Pb-Zn±Au	Showing	Copper, Lead, Zinc
105G 064	ZIMMER	Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)	Showing	Copper, Lead, Zinc
105G 065	INGS	Vein Cu±Ag Quartz	Showing	Copper
105G 066	CW	Unknown	Anomaly	
105G 067	LAWN	Unknown	Unknown	
105G 068	ASH	Unknown	Drilled Prospect	Copper, Lead, Zinc
105G 069	HARMAN	Skarn Pb-Zn	Prospect	Barium, Silver, Zinc, Copper, Lead
105G 070	RENO	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Prospect	Copper, Lead, Zinc, Silver
105G 071	MYDA	Skarn W	Prospect	Beryllium, Tin, Tungsten, Gold
105G 072	WOLVERINE	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Producer	Copper, Gold, Zinc, Silver, Lead
105G 073	QUANDARY	Unknown	Anomaly	Copper, Nickel, Zinc, Silver, Gold
105G 074	BEV	Unknown	Anomaly	Chromium, Lead, Silver, Zinc, Nickel, Copper, Gold
105G 075	MCINTOSH	Unknown	Anomaly	
105G 076	FREBERG	Unknown	Anomaly	Copper, Zinc
105G 077	FLIN	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Lead, Zinc
105G 078	FLON	Unknown	Anomaly	
105G 079	HUDSON	Unknown	Anomaly	Copper, Zinc
105G 080	AIRBORNE	Unknown	Drilled Prospect	
105G 081	MONEY	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Copper, Silver, Zinc, Lead
105G 082	AKHURST	Volcanogenic Sulphide - type not determined	Drilled Prospect	Barite, Copper, Silver, Zinc, Lead
105G 083	PY	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Gold, Silver, Zinc, Lead
105G 084	BARK	Unknown	Drilled Prospect	
105G 085	GENUFLECT	Unknown	Anomaly	
105G 086	BEND	Unknown	Anomaly	
105G 087	KNOT	Unknown	Drilled Prospect	
105G 088	COOKIE	Volcanogenic Sulphide - type not determined	Anomaly	Chromium, Copper, Zinc, Lead
105G 089	HENNEL	Unknown	Anomaly	Copper, Zinc, Gold, Lead
105G 090	FAIRBANK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Barite, Fluorine, Zinc
105G 091	BOX	Volcanogenic Sulphide - type not determined	Anomaly	Copper, Lead
105G 092	COOPE	Unknown	Anomaly	Zinc
105G 093	NEBOCAT	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Drilled Prospect	Lead, Zinc
105G 094	DWONK	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Drilled Prospect	Barite
105G 095	PEANUT	Unknown	Unknown	
105G 096	WAD	Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)	Showing	Barium, Zinc, Lead, Silver
105G 097	FOG	Skarn W	Showing	Tungsten
105G 098	ANT	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Zinc, Silver, Lead
105G 099	BRENDEX	Volcanogenic Sulphide - type not determined	Prospect	Barite, Copper, Lead, Silver, Zinc, Gold
105G 100	HARRIS	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Prospect	Copper, Silver, Zinc, Gold, Lead
105G 101	ADDISON	Unknown	Drilled Prospect	Copper, Lead, Zinc
105G 102	HOWDEE	Skarn W	Showing	Copper, Silver, Tungsten, Gold
105G 103	RUSH	Unknown	Unknown	
105G 104	SANDERS	Skarn W	Drilled Prospect	Beryllium, Copper, Tungsten, Zinc, Lead, Chromium
105G 105	WHIT	Unknown	Anomaly	Copper, Zinc, Lead
105G 106	ST. CYR	Unknown	Anomaly	
105G 107	RIVIER	Unknown	Anomaly	Copper, Lead, Gold, Molybdenum, Zinc
105G 108	WOLV	Unknown	Unknown	
105G 109	COPLAND	Unknown	Unknown	
105G 110	ETS	Unknown	Anomaly	
105G 111	TOR	Unknown	Unknown	
105G 112	DESOTO	Unknown	Drilled Prospect	Copper, Lead, Zinc, Silver
105G 113	AZZUS	Unknown	Anomaly	
105G 114	LADY LEE	Ultramafic Mafic Jade (Nephrite)	Showing	Jade/Nephrite
105G 115	JEFF	Vein Polymetallic Ag-Pb-Zn±Au	Prospect	Lead, Zinc, Silver
105G 116	CHARLIE	Unknown	Anomaly	Copper, Lead, Zinc, Silver
105G 117	KUDZ ZE KAYAH	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Deposit	Copper, Gold, Zinc, Silver, Lead
105G 118	ICE	Volcanogenic Massive Sulphide (VMS) Cyprus Cu-Zn	Deposit	Copper, Silver, Gold, Cobalt
105G 119	SHOT	Skarn Pb-Zn	Showing	Copper, Zinc, Lead, Silver
105G 120	BLUE LINE	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Copper, Gold, Lead, Silver, Zinc
105G 121	NET	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Copper, Silver, Zinc, Lead
105G 122	OVERTIME	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Copper, Silver, Lead, Zinc
105G 123	GOAL	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Prospect	Copper, Lead, Zinc, Silver
105G 124	RED LINE	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Lead, Zinc, Silver
105G 125	GOON	Skarn Pb-Zn	Drilled Prospect	Copper, Zinc, Silver, Gold, Lead
105G 126	RBI	Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn	Drilled Prospect	Copper, Silver, Zinc, Lead, Nickel
105G 127	COBB	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Showing	Barium, Lead, Copper, Zinc, Silver
105G 128	DOG	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	
105G 129	MAJOR	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	
105G 130	LEAGUE	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Zinc, Lead, Silver
105G 131	DOT	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	Copper
105G 132	NECK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	Barium, Copper, Lead, Zinc
105G 133	AREA 18	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	
105G 134	PUCK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Lead, Zinc
105G 135	ELLEN CREEK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Lead, Zinc
105G 136	WHITE CREEK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Barite, Lead, Silver, Zinc, Copper
105G 137	MASK	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	Copper, Silver
105G 138	POP	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Silver, Zinc, Lead
105G 139	ON	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Copper, Zinc, Lead
105G 140	NAD	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Prospect	Copper, Lead, Zinc, Silver
105G 141	VERMILLION	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Drilled Prospect	Lead, Zinc
105G 142	BLAKE	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Anomaly	Copper, Lead, Zinc
105G 143	GP4F	Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn	Deposit	Copper, Gold, Zinc, Silver, Lead
105G 144	ARENA	Unknown	Anomaly	Copper
105G 145	WINGER	Skarn Pb-Zn	Anomaly	Lead, Silver, Zinc
105G 146	IC	Volcanogenic Sulphide - type not determined	Showing	Copper, Lead, Zinc, Silver, Gold
105G 147	TSA DA GLISZA	Gemstone Schist-hosted emerald	Drilled Prospect	Emerald, Tungsten, Silver, Copper, Gold
105G 148	ASSIST	Unknown	Anomaly	Arsenic, Zinc, Copper, Lead
105G 149	NHL	Volcanogenic Sulphide - type not determined	Showing	Copper, Zinc, Silver, Lead, Gold
105G 150	SPICE	Epithermal Au-Ag: Low Sulphidation	Anomaly	Antimony, Silver, Mercury, Gold, Arsenic
105G 151	GOOD GRIEF	Volcanogenic Sulphide - type not determined	Showing	Copper, Gold

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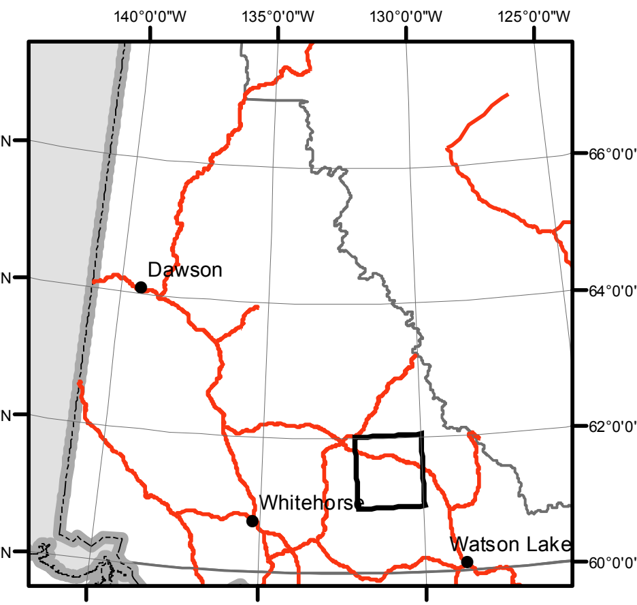
RECOMMENDED CITATION

MACKIE, R., ARNE, D. AND PENNIMPEDE, C., 2015. Weighted sums model for VMS Zn-rich deposits levelled by geology. In: Enhanced interpretation of stream sediment geochemical data for NTS 105G. Yukon Geological Survey, Open File 2015-26, scale 1:250 000, sheet 6 of 17.

Catchment basin polygons generated by the Yukon Geological Survey (J. O. Bruce).

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map and the accompanying report may be purchased from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3201, Email geology@gov.yk.ca.



1:250 000-scale topographic base data produced
by
CENTRE FOR TOPOGRAPHIC INFORMATION,
NATURAL RESOURCES CANADA

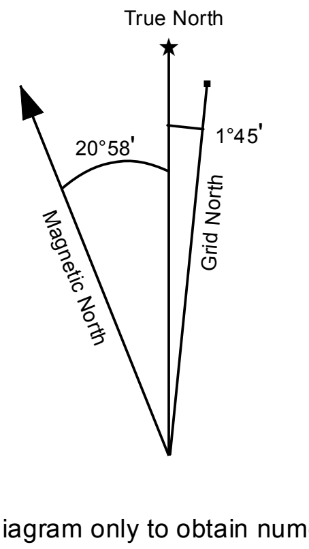
ONE THOUSAND METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 9

CONTOUR INTERVAL 100 FEET
Elevations in metres above Mean Sea Level

VMS Zn-rich Deposits
Weighted sums model
(Geology Levelled)
Sheet 6 of 17

SCALE 1:250 000

0 1 2 3 4 5
kilometres



Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 2015
FOR CENTRE OF MAP

105K TAY RIVER	105J SHELDON LAKE	105I LITTLE NAHANNI RIVER
105F QUIET LAKE	105G THIS MAP	105H FRANCES LAKE
105C TESLIN	105B WOLF LAKE	105A WATSON LAKE

Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2015-26

Weighted sums model for VMS Zn-rich deposits levelled by geology (NTS 105G)

Sheet 6 of 17

by

Rob Mackie, Dennis Arne,
and Chris Pennimpede