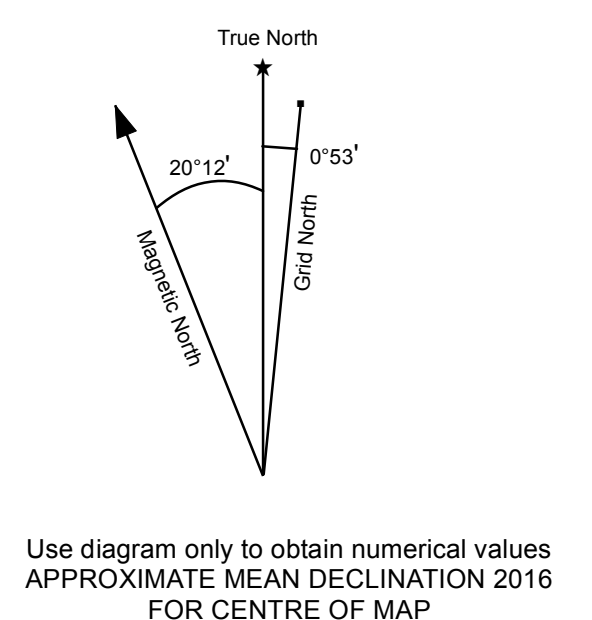


**W skarn
Weighted sums model
(Geology Levelled)
Sheet 6 of 13**

SCALE 1:250 000

0 1 2 3 4 5
kilometres



116C	116B	116A
PART OF 116B	DAWSON	LARSEN CREEK
115N	115O	115P
THIS MAP	THIS MAP	MOUSTEN
115K	115J	115I
PART OF 115J	STENHORN RIDGE	GARBACKS

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

Stream sediment and water samples from the Stewart River Area (NTS 1150 and part of 115N) were collected at a reconnaissance scale in 1986 as part of the Canada-Yukon Mineral Development Agreement (Friske *et al.*, 2001). Field descriptions and initial geochemical data for 1392 sites were released in Geological Survey of Canada (GSC) Open File 1364 / Indian and Northern Affairs Canada, Exploration and Geological Services Division Open File 2001-13D. New geochemical data from the re-analysis of archive sample material were released in Yukon Geological Survey (YGS) Open File 2016-4 (Jackman, 2016). The reader is referred to these reports for detailed descriptions of sampling techniques, analytical procedures, and quality control measures.

MINERAL OCCURRENCES

A variety of types of base and precious-metal mineralization have been identified in the Stewart River Area as listed in Table 1 (Yukon MINFILE, 2015). The most significant deposits are classified as orogenic Au (Golden Saddle deposit and O.V. prospect), polymetallic Ag-Pb-Zn (Connaught and Lerner deposits), intrusion-related Au (Moosehorn deposit and Flume prospect), quartz-vein hosted Au (Lone Star and Violet deposits, and Eureka prospect) and Cu-Zn-Pb volcanogenic massive sulphide (Toulary prospect). The Casino Cu-Mo-Au porphyry deposit and Coffee orogenic Au deposit occur in the adjacent map area to the south supporting the prospectivity of the region for these deposit types.

WEIGHTED SUMS MODELING

As described in the methodology report (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, while the other uses residuals calculated from regression against selected principal components. Weighted sums models (WSM) have been generated using the processed data.

Table 1: List of Mineral Occurrences for NTS map sheet 115N and 115O (Yukon MINFILE, 2015)

Number	Name	Type	Status	Commodities
115N 119	BUCKET	Unknown	Showing	Gold
115N 120	BELMUCK	Vein Au-Quartz	Showing	Copper, Gold, Silver
115N 152	BERRY MILE	Coal	Showing	Coal
115N 153	BEAR LAKE	Stannic Cu	Showing	Copper, Silver
115O 014	BLACK FOX	Vein Polymetallic Ag-Pb-Zn	Showing	Ag, Pb, Zn, Cu, Au
115O 015	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 016	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 017	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 018	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 019	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 020	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 021	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 022	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 023	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 024	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 025	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 026	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 028	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 031	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 032	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 037	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 038	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 039	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 040	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 041	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 050	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 067	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 101	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 124	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 125	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 127	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 128	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 129	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 130	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 131	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 132	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 133	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 134	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 135	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 136	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 137	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 138	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 139	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 140	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 141	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 142	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 143	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 144	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 145	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 146	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 147	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 148	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 149	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 150	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 151	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 152	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 153	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 154	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 155	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 156	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
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115O 177	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 178	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 179	BALDWIN	Plutonic Related Au	Showing	Copper, Silver
115O 180	BALDWIN	Plutonic Related Au	Showing	Copper, Silver

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

Target Deposit Type*	Other Deposit Type*	Mn	Fe	Co	Ni	Cu	Mo	Zn	Pb	Ag	Au	As	Ba	Cd	Sr	Sb	Te	Hg	Tl	Bi	W	
Porphyry Cu-Mo	Cu skarn; Porphyry Mo; VMS (Cu-rich)					1	4	2		1	2											
Polymetallic Ag-Pb-Zn	VMS; SEDEX; Pb-Zn skarn					1	3	4	3	2	1											
Epithermal Au-Ag	Polymetallic Ag-Pb-Zn					1	4	3		1	2											
Druggist Au	Intrusion-related Au</																					