

INTRODUCTION

New geochemical data from re-analysis of archived stream sediment samples have been assessed using weighted sums modeling (WSM) and catchment basin analysis as described in the methodology report that accompanies this map (Mackie et al., 2015). In addition to a series of maps displaying WSM results, a catchment map of stream water pH has also been constructed.

SAMPLING AND ANALYSIS PROGRAMS

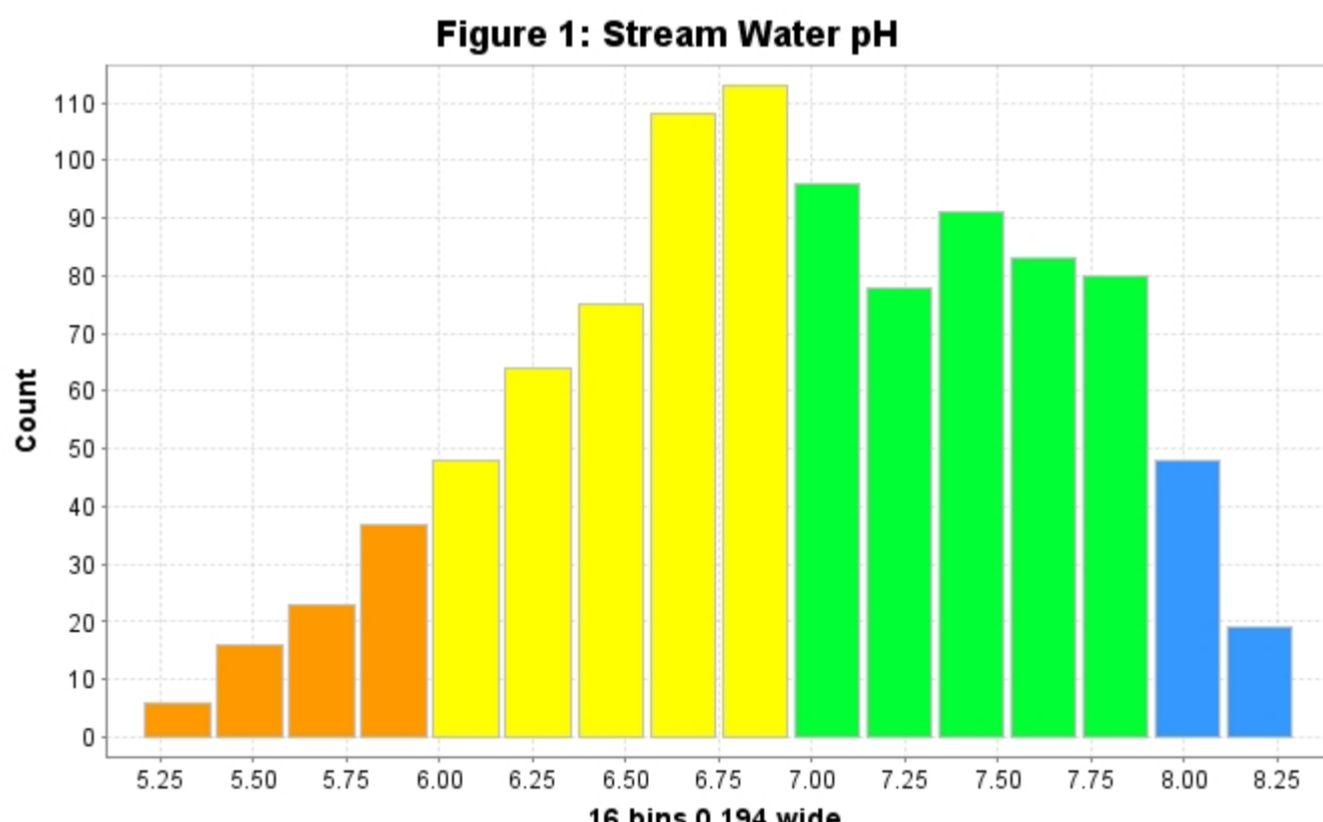
Stream sediment and water samples from the Whitehorse area (NTS 105D) were collected at a reconnaissance scale in 1985 as part of the Canada-Yukon Mineral Development Agreement (Geological Survey of Canada, 1986). Field descriptions and initial geochemical data for 1003 sites were released in Geological Survey of Canada (GSC) Open File 1218. New geochemical data from the re-analysis of archive sample material were released in Yukon Geological Survey (YGS) Open File 2015-12 (Jackman, 2015). Samples from sites located within currently protected areas were excluded from re-analysis. The current assessment examines only data for the 913 sites that are located outside of these protected areas and have been re-analyzed. 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 Whitehorse Area as listed in Table 1 (Yukon MINFILE, 2015). The most significant deposits are classed as Cu skarn (Past Producing Whitehorse Cu deposit), Epithermal Au-Ag (Past Producing Tally-Ho and Mount Skukum deposits), Polymetallic Ag-Pb-Zn±Au (Past Producing Union Mines, Venus and Big Thing deposits) and unclassified quartz-vein related Au (Rose, Charleson, Gold Hill, Arscott and Joe Creek prospects). Many of the unclassified Au prospects contain elevated abundances of various other metals including Ag, Cu, Pb and Zn. Other deposit types within the area include porphyry Cu-Mo (Carcross prospect), porphyry Mo (Lime prospect), magmatic Ni-Cu-PGE (Lavalee and Marsh showings) and Pb-Zn skarn (Deb and Krefst prospects). The Red Mountain porphyry Mo deposit occurs in the adjacent NTS map area to the east supporting the prospectivity of the region for this deposit type.

STREAM WATER pH

As shown in Figure 1, the vast majority of streams have pH values between 6.5 and 7.5 (median pH = 7.0). Regional trends in pH are evident and correspond with lithological variation. Stream water in areas underlain by felsic rocks generally have a lower pH than those underlain by mafic rocks. Stream samples with mineral occurrences in the corresponding catchment are not distinctly acidic suggesting any response from oxidation of near-surface sulphides related to these occurrences has been diluted or neutralized.



LEGEND

Town

- Town

Mineral Occurrence

- ▲ Mineral Occurrence

Stream Water pH

- No pH data
- 0.01 - 5.00
- 5.01 - 6.00
- 6.01 - 7.00
- 7.01 - 8.00
- 8.01 - 9.00
- 9.01 - 10.00

REFERENCES

- Geological Survey of Canada, 1986. Regional Stream Sediment and Water Geochemical Reconnaissance Data, Yukon (105D). Geological Survey of Canada, Open File 1218.
- Jackman, W., 2015. Regional Stream Sediment Geochemical Data, Whitehorse area, southern Yukon (NTS 105D). Yukon Geological Survey, Open File 2015-12.
- Mackie, R., Arne, D. and Brown, O., 2015. Enhanced interpretation of regional stream sediment geochemistry from Yukon: catchment basin analysis and weighted sums modeling, Yukon Geological Survey, Open File Report 2015-10.
- Yukon MINFILE, 2015. Yukon MINFILE – A database of mineral occurrences. Yukon Geological Survey, www.data.geology.gov.yk.ca, accessed May 2015.

RECOMMENDED CITATION

MACKIE, R., ARNE, D. AND PENNIMPEDE, C., 2016. Stream water pH. In: Enhanced interpretation of stream sediment geochemical data for NTS map sheet 105D. Yukon Geological Survey, Open File 2016-26, scale 1:250 000, sheet 13 of 13.

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 obtained 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.

A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: <http://www.geology.gov.yk.ca>.

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

Number	Name	Type	Status	Commodities
1050 001	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 002	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 003	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 004	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 005	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 006	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 007	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 008	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 009	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 010	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 011	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 012	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 013	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 014	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 015	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
1050 016	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
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1050 018	ALBERTA	Ver. Cu-Ag Quartz	Prospect	Copper, Gold, Silver, Lead
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