

INTRODUCTION

The Committee Bay area is a large tectonic province, with a complex geological history. The geological map of this area is a key tool for understanding the tectonic and magmatic evolution of the region. This map is based on a synthesis of geological data from a variety of sources, including field observations, geochronology, and geochemistry. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

DESCRIPTION OF NOTES

The map is based on a synthesis of geological data from a variety of sources, including field observations, geochronology, and geochemistry. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

REVISIONS

The map has been revised several times since its first publication. The most recent revision includes new data on the geochronology and geochemistry of the rocks in the area. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

STRUCTURES

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of geological structures. The map shows the distribution of these structures, including faults, folds, and thrust zones. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

ROCKS

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of geological rocks. The map shows the distribution of these rocks, including igneous, sedimentary, and metamorphic rocks. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

MINERALIZATION

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of mineral resources. The map shows the distribution of these resources, including gold, silver, and copper. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

ECONOMIC GEOLOGY

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of economic resources. The map shows the distribution of these resources, including gold, silver, and copper. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

CONCLUSIONS

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of geological features and structures. The map shows the distribution of these features and structures, and provides a comprehensive overview of the geological evolution of the area. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

ACKNOWLEDGEMENTS

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of geological features and structures. The map shows the distribution of these features and structures, and provides a comprehensive overview of the geological evolution of the area. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

REFERENCES

The Walker Lake - Arrowsmith River area is a complex tectonic province, with a variety of geological features and structures. The map shows the distribution of these features and structures, and provides a comprehensive overview of the geological evolution of the area. The map is intended to provide a comprehensive overview of the geological features and structures of the area, and to serve as a reference for future research.

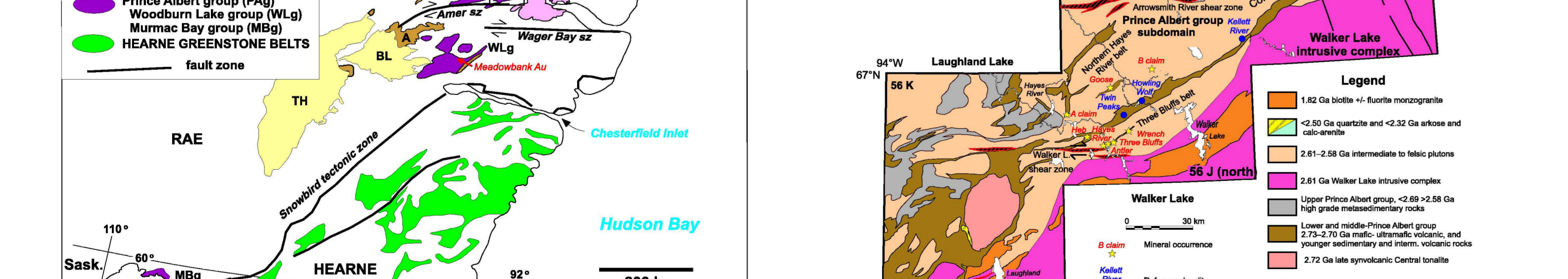


Figure 1. Simplified geological map of the western Churchill Province, showing the location of the Committee Bay project area (Figure 2). The Walker Lake (W.L.) and Arrowsmith River (A.R.) are shown in blue.

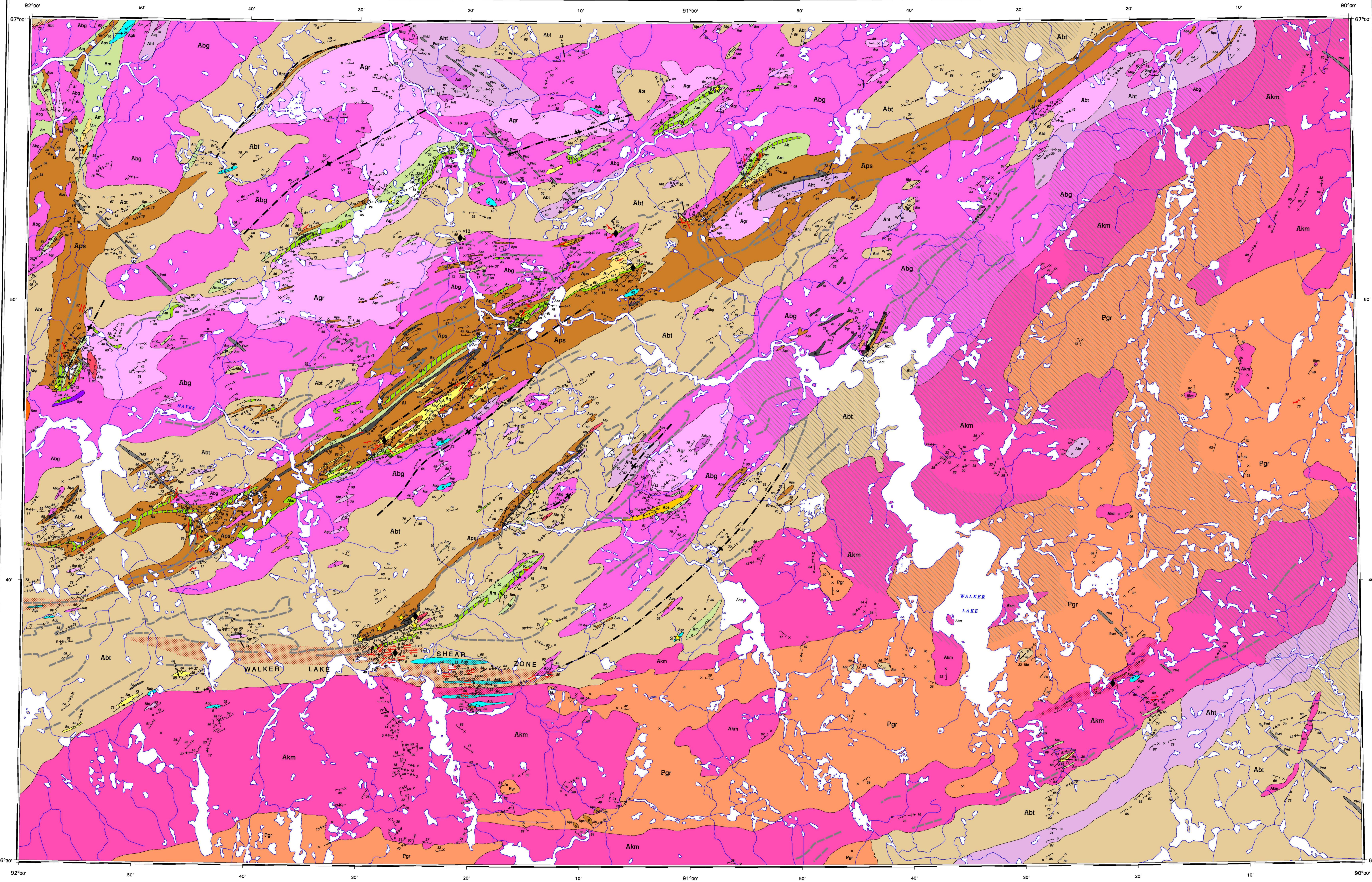


Figure 2. Simplified geological map of the Committee Bay area with principal mineral showings and reference localities for the Walker Lake-Arrowsmith River region. The map shows the distribution of various geological units and structures, and includes a legend and scale bar.

LEGEND

QUATERNARY
 Quaternary cover, predominantly till and glacio-fluvial sediments.

PROTZOIC
 Metasediments, metabasites, and other rocks. Strike-slip faults are indicated by dashed lines with arrows. Faults are defined primarily by distinctive, northwest-trending, positive normal anastomosing structures.

ARCHAIC AND/OR PALEOPROTEROZOIC
 Archean and Paleoproterozoic rocks, including gabbro, granite, and other igneous rocks.

ARCHAIC
 Archean rocks, including gabbro, granite, and other igneous rocks.

PRIME
 Prime rocks, including gabbro, granite, and other igneous rocks.

ARROWSMITH
 Arrowsmith rocks, including gabbro, granite, and other igneous rocks.

WALKER LAKE
 Walker Lake rocks, including gabbro, granite, and other igneous rocks.

Locality	Rock type	Method (s)	Age (Ma)	Interpretation	Reference(s)	Easting	Northing
1	tonalite	SHRIMP	2720	crystal, est.	4	61678	726978
2	quartzite	TRMS	2712 ± 11	detrital	1	61678	726978
3	quartzite	TRMS	2711 ± 23	detrital	1	68204	741652
4	metabasite	SHRIMP	2708 ± 18	detrital	1	68407	747848
5	quartzite	SHRIMP	2698 ± 4	detrital	1	68204	741652
6	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
7	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
8	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
9	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
10	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
11	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652
12	quartzite	SHRIMP	2696 ± 9	detrital	1	68204	741652

Locality	Showing	Easting	Northing	Sample #	Au	Cu	Description	Reference(s)
1	B Chert	88198	748388	2064	790	827	massive Pt, Py, Co	1
2	Gneiss	87869	742049	SAKP149	1800		quartzite	2
3	Quartzite	82784	726219	3076	12	1000	ultraphase Qtz vein	1
4	A Chert	84895	74274	37		80000		3
5	Quartzite	82784	726219	3076	12	1000	ultraphase Qtz vein	1
6	North Wrench	87761	742473	3072	8720		quartzite	2
7	ADZGneiss	82784	726219	3076	12	1000	ultraphase Qtz vein	1
8	Three Bullets	87020	738200	3078	8828			3
9	Archer	86789	726219	3076	12	1000	ultraphase Qtz vein	1
10	Haves River	86690	739125	3076	12	1000	ultraphase Qtz vein	1

Note: (1) Mineral U-Pb ages obtained from the Geological Survey of Canada using the SHRIMP II or TRMS thermal ionization mass spectrometer instrumented with a laser. (2) Age of detrital zircon, zircon, or detrital zircon. (3) Reference: 1) Skulski et al., unpublished; 2) Searles-Barnes and Dyer, unpublished; 3) Carson et al., unpublished; 4) Johnston, 2002. (4) 178° east longitude, zone 18N, datum 1983.

Table 1. U-Pb geochronology of the Walker Lake and Arrowsmith River area, Nunavut, samples shown on map as black diamonds with locality number.

Table 2. Selection of mineralized samples, Walker Lake and Arrowsmith River area, samples shown on map as yellow stars with locality number.

Note: (1) U-Pb zone 18N, datum 1983. (2) All data are from Dyer and Dyer (2002, Geological Survey of Canada, Open File 427) using new assays (samples 2064, 2074 and 2076) and data corrected for common lead (see reference list; reference no. 1) corrected; 2) assessment report #R6000; 3) assessment report #R6078; 4) assessment report #R62146; 5) assessment report #R6346; 6) assessment report #R63201.

Table 3. Selection of mineralized samples, Walker Lake and Arrowsmith River area, samples shown on map as yellow stars with locality number.

Note: (1) U-Pb zone 18N, datum 1983. (2) All data are from Dyer and Dyer (2002, Geological Survey of Canada, Open File 427) using new assays (samples 2064, 2074 and 2076) and data corrected for common lead (see reference list; reference no. 1) corrected; 2) assessment report #R6000; 3) assessment report #R6078; 4) assessment report #R62146; 5) assessment report #R6346; 6) assessment report #R63201.

Table 4. Selection of mineralized samples, Walker Lake and Arrowsmith River area, samples shown on map as yellow stars with locality number.

Note: (1) U-Pb zone 18N, datum 1983. (2) All data are from Dyer and Dyer (2002, Geological Survey of Canada, Open File 427) using new assays (samples 2064, 2074 and 2076) and data corrected for common lead (see reference list; reference no. 1) corrected; 2) assessment report #R6000; 3) assessment report #R6078; 4) assessment report #R62146; 5) assessment report #R6346; 6) assessment report #R63201.