



## Northwest Territories Geological Survey (NTGS) publications released 2023-2024

Title	Authors	Download Link
Surficial Geology North of Beauparlant Lake, Northwest Territories, part of NTS 86A09	DesRosiers, P.D., Ward, B.C., and Sacco, D.	<a href="#">NWT Open Report 2021-008</a>
Lac de Gras joint venture overburden drilling and kimberlite indicator mineral data	Dominion Diamond Mines ULC and North Arrow Minerals Inc., compiled by Aurora Geosciences Ltd.	<a href="#">NWT Open Report 2022-006</a>
Beaufort Delta climate data, Northwest Territories	Kokelj, S.A., Beel, C.R., Connon, R.F., Graydon, C., King, G., Kanigan, J., Esagok, D., and Kokelj, S.V.	<a href="#">NWT Open Report 2022-007</a>
Surficial geology and till sampling suitability for parts of NTS 086H and 076E/F, Slave Geological Province, Northwest Territories	Sacco, D., McGregor, C., Cronmiller, D., Johnson, C., Wolter, A., and Turner, D.	<a href="#">NWT Open Report 2022-014</a>
Refinement of the Nonacho group sedimentology and stratigraphy: Results of the 2021 field season	Lockie, J., Fischer, B.J., and Ielpi, A.	<a href="#">NWT Open Report 2023-001</a>
Thermal evolution of Phanerozoic sediments of southwestern Northwest Territories: Project Summary – Year Two	Pinto, T.F., Enkelmann, E., Matthews, W., and Terlaky, V	<a href="#">NWT Open Report 2023-003</a>
Enhancements of airborne geophysical data from NWT Assessment Report 084022, Kristin Project, Northwest Territories (parts of NTS 075I and 065L)	Mirza, A.M.	<a href="#">NWT Open Report 2023-007</a>
Enhancements of airborne geophysical data from NWT Assessment Report 084035, Mad 1-3 Claims, McCrea Lake area, Northwest Territories (parts of NTS 085P09/10)	Mirza, A.M.	<a href="#">NWT Open Report 2023-008</a>
Enhancements of airborne geophysical data from NWT Assessment Reports (084049, Lac de Gras Area, and 084104, Carat Property Area), Northwest Territories (parts of NTS 076C/D/E/F and 85P09/10)	Mirza, A.M.	<a href="#">NWT Open Report 2023-009</a>
Enhancements of airborne geophysical data from NWT Assessment Report 084171, Wool Bay Project, Northwest Territories (parts of NTS 075K08)	Mirza, A.M.	<a href="#">NWT Open Report 2023-010</a>
Enhancements of airborne geophysical data from NWT Assessment Report 084225, GEM Property, Lac de Charloit area, Northwest Territories (parts of NTS 075N16)	Mirza, A.M.	<a href="#">NWT Open Report 2023-011</a>
Lake sediment and water geochemistry data donated by Chevron Standard Ltd. in NTS 86B13 and 86C13, Wopmay orogen, Northwest Territories	Ola, S. and Cairns, S.	<a href="#">NWT Open Report 2023-012</a>

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A detailed inventory of retrogressive thaw slump affected slopes using high spatial resolution digital elevation models and imagery, Peel Plateau and Anderson Plain – Tuktoyaktuk Coastlands, Northwest Territories	van der Sluijs, J. and Kokelj, S.V.	<a href="#">NWT Open Report 2023-013</a>
Summary of Exploration Activities 1964 – 1997 and Gold Resource Estimation Treminco Resources Ltd. Yellowknife Greenstone Project Clan Lake Property	Borissova, O.I. and Trenaman, R.T.	<a href="#">NWT Open Report 2023-016</a>
Mackenzie Delta LNG pre-feasibility study	Worley Canada Services Ltd.	<a href="#">NWT Open Report 2023-017</a>
Water quality monitoring in the Slave River at Fort Smith following a spill of treated wastewater effluent from the Al-Pac pulp and paper mill into the Athabasca River, Alberta, October 2020	Cunada, C., Smith, K., Staples, R., and Czarnecki, A.	<a href="#">NWT Open Report 2023-018</a>
Northwest Territories Geological Survey 2022–2023 Compilation of Geoscience Data	Northwest Territories Geological Survey	<a href="#">NWT Open Report 2023-024</a>
2023 Geoscience Forum Abstract Volume	Gervais, S.D. (compiler)	<a href="#">2023 Geoscience Forum Abstract Volume</a>
2023 Northwest Territories Mineral Exploration Summary	Northwest Territories Geological Survey	2023 Northwest Territories Mineral Exploration Overview

## External publications by NTGS and collaborators 2023-2024

Title	Authors	Link
Paleoproterozoic structural evolution of the southwestern margin of the Rae craton, Northwest Territories	Canam, R.	Simon Fraser University Master of Science Thesis
Pressure-temperature constraints on the Neoproterozoic basement in the southern Slave Province	Milkowski, E.	University of British Columbia Undergraduate Honours Thesis
Geology and Geochemistry of the shale hosted vanadium mineralization at the Van property, Northwest Territories	McGill, D.A.	University of Toronto Master of Science Thesis
Physical volcanology, litho-geochemistry, petrology, and tectonic setting of the Neoproterozoic volcanic rocks in the Sunset Lake area, Beaulieu River volcanic belt, Sunset Lake, Northwest Territories, Canada	Austin-Fafard, S.B.	University of Saskatchewan Master of Science Thesis
Discovery of a giant 3.3–3.1 Ga terrane in the Rae craton, Canada: Implications for the timing and extent of ancient continental growth	Neil, B.J.C., Tersmette, D.B., Chacko, T., Heaman, L.M., Kjarsgaard, B.A., Martel, E., Creaser, R.A., Pearson, G.D., Stern, R.A., Dufrane, A.S., and Luo, Y.	<a href="#">Geology</a>
The source of tungsten-associated magmas in the northern Canadian Cordillera and implications for the basement	Rasmussen, K.L., Falck, H., Elongo, V., Reimink, J., Luo, Y., Pearson, G.D., Ootes, L., Creaser, R.A., and Lecumberri-Sanchez, P.	<a href="#">Geology</a>

Title	Authors	Download Link
The Northwest Territories Thermokarst Mapping Collective: A northern-driven mapping collaborative toward understanding the effects of permafrost thaw	Kokelj, S.V., Gingras-Hill, T., Daly, S.V., Morse, P.D., Wolfe, S.A., Rudy, A.C.A., van der Sluijs, J., Weiss, N., O'Neill, H.B., Baltzer, J.L., Lantz, T.C., Gibson, C., Cazon, D., Fraser, R.H., Froese, D.G., Giff, G., Klengenberg, C., Lamoureux, S.F., Quinton, W.L., Turetsky, M.R., Chiasson, A., Ferguson, C., Newton, M., Pope, M., Paul, J.A., Wilson, A.M., and Young, J.M.	<a href="#">Arctic Science</a>
Leaching kinetics of tungsten in scheelite tailings in sodium carbonate solutions at low temperatures (25–75°C)	Cheng, T.C., Soriano, C., Jamieson, H., and Falck, H.	<a href="#">Canadian Metallurgical Quarterly</a>
Beyond visual-line-of-sight (BVLOS) drone operations for environmental and infrastructure monitoring: A case study in northwestern Canada	van der Sluijs, J., Saiet, E., Bakelaar, C.N., Wentworth, A., Fraser, R.H., and Kokelj, S.V.	<a href="#">Drone Systems and Applications</a>
Evidence for preservation of organic carbon interacting with iron in material displaced from retrogressive thaw slumps: Case study in Peel Plateau, western Canadian Arctic	Thomas, M., Monhonval, A., Hirst, C., Broder, L., Zolkos, S., Vonk, J.E., Tank, S.E., Keskitalo, K.H., Shakil, S., Kokelj, S.V., van der Sluijs, J., and Opfergelt, S.	<a href="#">Geoderma</a>
Leslie kimberlite core	Barrett Elliott	<a href="#">GeoExPro</a>
Arctic soil methane sink increases with drier conditions and higher ecosystem respiration	Voigt, C., Virkkala, A.-M., Gosselin, G.H., Bennett, K.A., Black, A.T., Detto, M., Chevrier-Dion, C., Guggenberger, G., Hashmi, W., Kohl, L., Kou, D., Marquis, C., Marsh, P., Marushchak, M.E., Nestic, Z., Nykänen, H., Saarela, T., Sauheitl, L., Walker, B., Weiss, N., Wilcox E.J., and Sonnentag, O.	<a href="#">Nature Climate Change</a>
Geothermal potential of closed underground mines: Resource assessment study of the Con Mine, Northwest Territories, Canada	Ngoyo Mandemvo, D.D., Comeau, F.-A., Raymond, J., Grasby, S.E., and Terlaky, V.	<a href="#">Natural Resources Research</a>
An example of the Middle to Late Devonian marine nitrogen cycle from mudstones of the Horn River Group, Northwest Territories, Canada	LaGrange, M.T., Li, K., Li, L., Kabanov, P., Konhauser, K.O., Harris, B.S., Biddle, S.K., Terlaky, V., and Gingras, M.K.	<a href="#">Palaeogeography, Palaeoclimatology, Palaeoecology</a>
Reprocessing of the Cantung Mine tailings: removal of sulphide minerals	Collins, A., Sauber, M., Di Feo, A., Surrette, A., Jamieson, H., Falck, H., Lambiv Dzemua, G., and Gibson, C.	Proceedings of the 62 <sup>nd</sup> Conference of Metallurgists

## Assessment Reports

Report Number	Owner	Claims	Recorded Date	Release Date
036199	Redbed Resources Corp.	K14824 (CL 31); K14825 (CL32); K14826 (CL 33); K14829 (CL 100); K14831 (CL 102); K14835 (CL 106); K14836 (CL 107); K14837 (CL 108)	15-Nov-2019	15-Nov-2022
036195	New Discovery Mines Ltd.	M11200 (NDM-3); F76520 (NDM-1); F76521 (NDM-2)	16-Dec-2019	16-Dec-2022
036193	Kennady Diamonds Inc.	K16870 (AL 10); K16871 (AL 11); K16872 (AL 12); K16873 (AL 13); K16892 (AL 32); K16893 (AL 33); K16894 (AL 34); K16879 (AL 19); K16905 (AL 45)	5-Nov-2019	11-Sep-2022
036168	Dominion Diamond Mines ULC	M10713 (GW 1); M10714 (GW 2); M10715 (GW 3); M10716 (GW 4)	5-Nov-2019	5-Nov-2022
036151	507140 N.W.T. Ltd.	M10920 (N2)	10-Oct-2019	10-Oct-2022
036136	Rover Metals Corp.	M10076 (CL1)	30-Sep-2019	30-Sep-2022
036140	GGL Resources Corp.	M10413 (YL 13); M10414 (YL 14); M10415 (YL 15); M10416 (YL 16); M10417 (YL 17); M10418 (YL 18); M10419 (YL 19); M10420 (YL 20); M10423 (YL 23); M10421 (YL 21)	30-Sep-2019	30-Sep-2022
036135	GGL Resources Corp.	M10678 (SL 18); M10655 (SL 35); M10681 (SL 21); M10682 (SL 22); M10683 (SL 23); M10656 (SL 36)	30-Sep-2019	30-Sep-2022
036220	BNT Gold Resources Ltd.	K19942 (FL 3); K19943 (FL 4); K19947 (FL 8); K19948 (FL 9); K19949 (FL 10); K19952 (FL 13); K19953 (FL 14); K19950 (FL 11); K16931 (Fox Lake 1); K19941 (FL 2); K19951 (FL 12)	17-Dec-2019	17-Dec-2022
036231	North Arrow Minerals Inc.	M11007 (MM6); M10046 (RED 5); M10231 (SH1); M10234 (SH4); K16825 (RDM-1); M10235 (SH5); M10236 (SH6); K16827 (RDM-3); M10232 (SH2); M10233 (SH3); M11005 (MM4); M11006 (MM5); M11002 (MM1); M11003 (MM2); M11004 (MM3); M10044 (RED 3); K16826 (RDM-2)	21-Jan-2020	21-Jan-2023
036238	Jody Dahrouge	M10230 (MUNN 1); K19673 (MN 3); K19674 (MN 4); K19676 (MN 6); K19378 (MN 8); K19683 (MN 13); K19684 (MN 14)	22-Jan-2020	22-Jan-2023
036254	Darren Bahrey	NP-8462; NP-8460; NP-8461; NP-8457; NP-8459; NP-8443; NP-8458; NP-8456; NP-8463; NP-8454; NP-8442; NP-8455	31-Jan-2020	31-Jan-2023
036255	Silver Range Resources Ltd.	M10077 (SPARTA 1); M10078 (SPARTA 2)	7-Feb-2020	7-Feb-2023
036258	GGL Resources Corp.	M10395 (PGB 1); M10396 (PGB 2); M10397 (PGB 3); M10398 (PGB 4)	24-Feb-2020	24-Feb-2023
036644	James Boylan	M10379 (Eternity 1)	20-Oct-2020	20-Oct-2023