



Ministry of
Energy, Mines and
Low Carbon Innovation



ASSESSMENT REPORT CHECKLIST

(revised December 2020)

OIC 1161-04 repeals the Mineral Tenure Act Regulations and outlines the requirements for submission of technical assessment work reports. To assist authors of assessment reports, a summary of the requirements is presented herein.

https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/96292_01

General Information

- The described work must consist mainly of original studies rather than compilation of previous work. Accounts based on brief property visits and scanty data are not acceptable as technical reports.
- All work must comply with the relevant requirements of the *Mines Act* (Notice of Work and Reclamation).
- The BC Geological Survey reviews the reports for compliance with the *Mineral Tenure Act Regulation*. Rejection of submissions not conforming to the *Mineral Tenure Act Regulation* may cause forfeiture of title to the mineral claim(s).
- Reports submitted in conformity with these regulations will have confidential status for a period of one year from the date of submission of the statement to record work.
- Preparatory physical work is acceptable for credit when directly related to and submitted with technical surveys.
- Physical work only may be submitted directly to the Gold Commissioner's office; a technical report is not required.

ALL REPORTS

- [Title Page Summary Form](#) fully filled out.
- A Title Page: general nature of the report / claims worked / mining division / NTS map sheet / latitude / longitude / owner of claims / operator (who paid for the work) / author(s) of the report / date submitted.
- Table of Contents cross-indexed to pages, numbers and titles.
- Introduction: New work / quantities / dates
- Location / Physiography / Access / Infrastructure
- Index map (property and regional geography and infrastructure) / labelled Mineral Claim location map(s)
- Exploration History / Economic Assessment
- Geology: Regional / Property / Lithology / Mineralization
- Geology Map with appropriate legend
- Program Objective / Results / Discussion / Interpretation / Conclusions
- References (standard bibliographic format)
- Statement of Qualifications (must state pertinent training and experience)
- Statement of Costs (see below)
- The described work must consist mainly of original studies rather than compilation of previous work. Accounts of brief property visits are not acceptable

FORMAT

- Reports and data can be uploaded through the [Assessment Report and Digital Data Submission portal](#) or e-mailed to ARIS.digital@gov.bc.ca.
- PDF reports are preferred. No locks or restrictions to be placed on the PDF files or analytical certificates
- Paper copies are accepted but not preferred. Must be letter-size (8-1/2" x 11") pages bound/removable in firm covers, reproducible with legible print; text and maps clearly readable and understandable. Supporting maps/figures larger than letter-sized pages may be submitted (maximum 1.0 x 1.3 m)
- Digital data should be included whenever available. Data types to be submitted include:
 - Geochemical data: sample location information, sample descriptions/notes, analytical certificates (e.g. .csv, .xlsx, .accdb)
 - Geological data: station location information, station descriptions/notes, structural measurements, mapping polygons and features (e.g. .csv, .xlsx, .shp)
 - Drilling data: collar location information, azimuth/dip, depth, downhole orientation surveys, core logs, sample intervals, geotechnical measurements, analytical certificates (e.g. .csv, .xlsx, .accdb)
 - Geophysical data (ground and airborne): raw data, processed data (e.g. .gdb, .xyz, .csv, .grd)
 - Imagery data: LiDAR, orthophotos, DEMs, ASTER (e.g. .tif, .dem, other raw data files)
 - GIS Products
 - Any other raw or processed digital files used in the creation of the report

ALL MAPS

- Maps require: Figure# / title / scale bar / north arrow / coordinates / legend / legible image quality / units of measure if applicable

- Mineral claim boundaries on plan maps

STATEMENT OF COSTS (*directly applicable to assessment work*)

- A [cost statement template](#) is available for download.

Cost statements must include;

- number of days, rates per day, specific date and total wages paid every person employed
- number of days, rates per day, specific dates documenting food and accommodation
- number of days, rates per day, specific dates and specific information on costs incurred from all forms of transportation and instrument rentals
- number of days, unit rates, specific dates, specific information on all charges incurred by surveys conducted and total cost for all analyses performed during and subsequent to the investigation
- GST may be included in approved costs, where it has been paid in the purchase of goods and services.

Specific Work Types

PROSPECTING

Prospecting activities are only acceptable for exploration and development credit by the same owner or operator during the first 3 years of the holding of the claim.

- An accurate map showing location of traverses with respect to claim boundaries, location and description of rock outcrops/float, sample locations, analytical results, and instrument readings described and plotted.

GEOLOGICAL MAPPING

- Describe Lithology / structure / specific ore minerals
- Map of location and outline of outcrops with rock types identified

GEOPHYSICAL

- Method / procedure / make and model of equipment
- Report by geophysical contractor as Appendix if applicable
- Map(s): location of data collected / numerical values / units of measurement
- Magnetic survey: component measured identified, absolute/relative values and diurnal correction specified.
- Electromagnetic or Induced polarization survey: specific method and array described.
- Very low radio frequency (VLF) survey: location of the transmitter must be stated.
- Airborne survey: results in contour form, 1:50 000 scale or more detailed, noting physiography, claim boundaries, flight lines, terrain clearance, speed, weather/wind vector.

GEOCHEMICAL

- Describe: number of samples / type of samples / description / sampling method
- Describe where applicable: full lithology / mineralization / soil horizon and depth / vegetation species / plant part / silt type
- Table of location coordinates for each sample (UTM coordinates preferred with Zone identified)
- Map(s) must plot the numerical value (in text) of each sample (not just highlights) for elements of interest. Unit of measurement must be stated.
- Analytical laboratory / chemist / mesh fraction analyzed / strength of reagents and time of digestion / testing instruments / ashing technique for bio-surveys
- Analytical certificates from the laboratory included in report (as non-protected .pdf files).
- Results of work done during separate periods should be clearly differentiated

DRILLING

- Plan map showing the location of all drill holes in relation to claim boundaries
- Drill hole collar location / elevation / inclination / azimuth / dip test results (note if not done) / hole or core diameter
- Core/cuttings logs described by geologists (qualifications included in report).
- Location of core/cuttings storage if applicable.
- Assay results correlated with logs (note if assays not done)
- Table of sample identification numbers correlated with drill hole number and depth from/depth to (m)
- Cross-sections: Depths / Lithology / Mineralization / Assays (correlate between holes if reasonable)
- Laboratory Assay Certificates (PDF format – unlocked; not table exports)

Short holes for blasting do not constitute drilling.

GEOLOGICAL STUDIES

- Structural analysis or photo-interpretation must be accompanied by a comprehensive description of the underlying data source(s), any data-preparation methods, and a detailed description of the interpretive approach/analysis used. The types of software used, and any digital manipulators or filters used must also be described.
- Photo-geological interpretations should be accompanied by ground surveys, as per the definition of 'technical exploration and development' of the Mineral Tenure Act Regulation.
- Estimates of mineral resources or mineral reserves must conform with standards, set by the Canadian Securities Administrators, known as National Instrument 43-101.

PHYSICAL WORK

- Lines/grid, local trail/road, topography, trenches, open cuts, underground cuts, reclamation, helipad, legal claim post-boundary survey, etc. must be shown on maps with metric dimensions noted. Upon request by an official of the Ministry, the recorded owner of the mineral claim must show where the work has been performed on the ground.

ARCHAEOLOGICAL, ENVIRONMENTAL BASELINE, AND OTHER TECHNICAL STUDIES

- Provide the full report (Objectives and Findings)

Archaeological work completed under the requirement of a *Mines Act* permit is acceptable toward assessment credit.

Archeology Reports should be included as an appendix only and will be removed from the version of the report made available for public download.

Common Deficiencies

- Missing a description of the geological setting and the accompanying geological map
- Missing location coordinates for all samples taken
- Missing plots of all samples labelled with their sample identification number
- Missing plots of numerical values of geochemical results (for elements of interest) for all samples taken
- Missing detailed descriptions of sampling procedures
- Missing cross-sections for new drilling showing how new holes can be interpreted along historical section lines
- Missing unique symbols to delineate different sampling periods or sampling types
- Missing outcrop outlines on geological maps
- Missing lithological sample descriptions and coordinates to support geological maps
- Cost statement is not of sufficient detail; tabulation errors in cost statement