# Appendix A1 Metadata

# Project and Sample Metadata

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| **Metadata Category** | **OF 8711** |
| Project Lead Name | M.B. McClenaghan |
| Province/Territory | Yukon |
| Project or Activity Name | Mineral markers of porphyry processes-Casino deposit |
| Funding Source | TGI-5 |
| Datum for sample location coordinates | NAD83 |
| Context of current work as it relates to earlier or ongoing work | Part of larger data set that includes stream silt and stream water geochemistry |
| Supporting Publications | Background Information:  GSC Open File 8549  Stream sediment geochemical data:  GSC Open File 8632 |
| Sampling Access Method | helicopter |
| Sampling Design/Pattern | Stream drainage |
| Sampling Method | Bedrock: drill core and surface grab samples  Stream sediment: collected using metal shovel |
| Sample Medium/Media  Number of samples for each medium | Stream sediment: 22  Bedrock: 19  Stream cobble: 5 |
| Sample Density |  |
| Sample Collection Date Range | 06/09/2017 to 10/09/2017 |

Indicator Mineral Metadata

## Part 1 of 4

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| --- | --- | --- | --- | --- | --- | --- |
| Sample Medium/Media | Number of Samples of Each Medium | Processing Laboratory Name | Mineral Picking Laboratory Name | Work Order Number | Date Samples Submitted to Lab for Processing | Date Sample Data Reported to GSC |
| e.g. till, esker sand, beach sand, stream sediment |  | include city and country | include city and country | as assigned by the laboratory |  |  |
| Stream sediment | 22 + 3 blanks | Overburden Drilling Management Ltd., Ottawa, Canada | Overburden Drilling Management Ltd., Ottawa, Canada | 7760 |  | 31/03/2018 |
| Bedrock | 11 | Overburden Drilling Management Ltd., Ottawa, Canada | Overburden Drilling Management Ltd., Ottawa, Canada | 7895 |  | 16/11/2018 |
| Bedrock and cobbles | 10 | Overburden Drilling Management Ltd., Ottawa, Canada | Overburden Drilling Management Ltd., Ottawa, Canada | 7749 |  | 27/04/2018 |
| Bedrock | 3 | Overburden Drilling Management Ltd., Ottawa, Canada | Overburden Drilling Management Ltd., Ottawa, Canada | 7810 |  | 22/08/2018 |

## Part 2 of 4

|  |  |  |  |  |  |  |  |
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| Flow Chart (PDF) | Initial Sample Mass Before Processing (Range) | Grain Size Range Used for Sample Processing | Pre-Concentration Method(s) | Rock Disaggregation Method | Rock Disaggregation Laboratory Name | Name and Density of Heavy Liquid(s) | Ferromagnetic Separation Method |
| PDF of flow chart showing processing steps; indicate location in report | e.g. 10-15 kg | e.g. <2.0 mm | e.g. panning, tabling, jigging, heavy liquids, etc. | e.g. selfrag, EPD | include city and country | e.g. dilute methylene iodide at SG 3.1 and SG 2.98 | e.g. hand magnet, Frantz, roll magnet, etc. |
| Stream sediment:  Figure 8 | 8-16 kg | <2.0 mm | Tabling, panning, heavy liquids |  |  | SG 2.8 and SG 3.2 | Hand magnet, Carpco electromagnet separator |
| Bedrock: Figures 6.7 | 60 to 850 g | <2.0 mm | panning, heavy liquids | EPD | Overburden Drilling Management Ltd., Ottawa, Canada | SG 2.8 and SG 3.2 | Hand magnet, Carpco electromagnet separator |

Part 3 of 4

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| --- | --- | --- | --- | --- | --- | --- |
| Size Fractions Prepared | Size Fraction(s) Examined and Picked for Indicator Minerals | % of Heavy Mineral Concentrate Examined for Each Sample | Mineral Identification Method | Mineral Grain Picking Criteria | Mineral Chemistry Determination Method | Mineral Chemistry Lab Name |
| e.g. <0.25 mm, 0.25-0.5 mm, 0.5-1.0 mm, 1.0-2.0 mm |  | this will usually be 100% | binocular microscope, electron microprobe (EMP), mineral liberation analysis (MLA), SEM or other | e.g. KIM, MMSIM, PCIM, gold, or other custom suites.  Explain criteria details in text of report, e.g. Eclogitic vs. peridotitic garnet  High-Cr vs. low-Cr diopside  Mg-ilmenite - % of Mg  Olivine – forsterite vs. fayalite | e.g. EMP, SEM, MLA, LA-ICP-MS, other | include city and country |
| <0.25, 0.25-0.5, 0.5-1.0, 1.0-2.0 mm | 0.25-0.5, 0.5-1.0, 1.0-2.0 mm | 100% | binocular microscope, SEM | PCIM | none |  |
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## Part 4 of 4

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| Report Mineral Count Data as Raw Data Reported by the Picking Laboratory | Report mineral count data corrected for minerals confirmed by as confirmed by EMP, SEM or other methods | Report mineral count data as values normalized to total mass of sediment processed: (e.g. number of grains per 10 kg table feed) |
| Use separate appendix and indicate file name here | this is optional; indicate file name here | Use separate appendix and indicate file name here |
| Stream sediment- Appendix B4 |  | Stream sediment- Appendix C2 |
| Bedrock – Appendix B1, B2, B3 |  | Bedrock – Appendix C1 |
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