Mineral Resources Tasmania

Department of State Growth
www.mrt.tas.gov.au

Bulk Data Package Notes

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1.0 Introduction

This Bulk data package provides an extract of Minerals Resources Tasmania's (MRT) TIGER Drilling and Samples and Observations databases. The data is organised into a series of related tables, grouped into the following data types:

• Drilling data (Collar and surveys);

• Drill hole sample and analysis data (Sample and geochemistry, and petrophysics);

• Surface sample and analysis data (Sample and geochemistry, and petrophysics).

2.0 About this bulk data package

The geoscientific data in this bulk data package has been captured and compiled by MRT staff from several sources including:

• Departmental reports;

• Company reports – Mineral tenement activity reports and technical reports;

• Collaborative studies.

All data in this data package has been compiled from "Open" file status data in the MRT TIGER Drilling and Samples and Observations databases, added up to 15 February 2023.

The data supplied does not represent an exhaustive record of MRT data holdings. MRT captures, compiles, and distributes geoscience data on an ongoing basis, and is in the early stages of capturing geochemical data from historical mineral exploration activity reports.

Geoscience data are also periodically released when confidentiality provisions no longer apply to company technical reports, with data releases occurring on a quarterly basis.

2.1 Data disclaimer

A disclaimer for this data is attached to this data package (see Appendix 1), and by viewing and using this data, users of the data accept the Licence conditions in the attached file.

2.2 Data dictionary

A data dictionary for field descriptions of Drilling data and Samples and Observations data is attached (see Appendix 2) to this data package.

3.0 Data structure and data integration.

The Drilling data folder contains 3 files:

• DH_DRILLHOLE – export of drillhole metadata includes original X/Y and datum;

• CollarExport – export of collar data, all in GDA94 datum;

• DHSurvey – export of drillhole directional surveys.

3.1 Drilling data

Drill Hole Data	No. of Records
DH_DRILLHOLE	35,564
CollarExport	35,564
DHSurvey	53,167

3.1.1 Drilling data integration

The field 'Drill ID' is a unique TIGER database identifier for each drill hole, that can be used to link drill hole data tables to Samples/observations and geochemical analysis data.

3.2 Samples/Observations data

The Samples/observation data tables have two unique TIGER database identifier numbers included:

• The first field designated 'ID' (Sample/Obs ID) is a unique identifier for each Sample/observation record.

• The second ID field is the 'Drill ID' (drillhole ID), is a unique identifier of the drill hole record , to which the Sample/observation record is linked.

Samples/Observation data	No. of records
SamplesObservations_DH	381,470
SamplesObservations_Surface	249,785

3.2.1 Samples/Observations data integration

The Samples/observation data tables have two unique TIGER database identifier numbers included:

• The first field designated 'ID' (Sample/Obs ID) is a unique identifier for each Sample/observation record.

• The second ID field is the 'Drill ID' (drillhole ID), is a unique identifier of the drill hole record , to which the Sample/observation record is linked.

3.3 Geochemistry Results data

Geochemical analytical data is grouped by analysis type and includes metadata about analysis method and treatments. Each individual element analysed may have up four related data fields:

1. The elemental concentration.

2. Unit the analysis was reported in, eg parts per million.

3. Lower detection limit.

4. Analysis comment.

Below detection limit results have the elemental concentration designated with the value of '0'. When a below detection limit result is reported the corresponding detection limit and analysis unit are reported.

3.3.1 Drillhole Samples/Observations analysis data

The drillhole SamplesObs_analysis folder contains analytical results tables linked to drillhole sample/observation and grouped by analysis type/method.

See table below for list of xlsx files.

3.3.2 Drillhole Sample/Observation and analytical results integration

The analytical results data tables include two unique TIGER database identifiers:

- The first field designated 'ID' is a unique identifier for each Analytical record (or Analysis ID),

- The second identifier is the 'Linked To ID *',which is the unique identifier of a samples/observations record, which the analytical record is linked to (or Sample/Obs ID).

Drillhole SamplesObs_analysis	Records
AAS analysis	149,142
XRF	123,850
Unknown	113,094
Fire Assay	87,538
Emission Spectroscopy	52,307
Thermogravimetric	16,299
ICPMS Analysis	14,820
LECO	8,868
Heavy Mineral content	4,737
Graphite Furnace AAS	2,572
Davis Tube Recovery	1,027
Neutron Activation Analysis	988
Specific ion electrode	948
Rock analyses - Wet chemistry	632
XRD-Semiquantified	606
Ion exchange chromatography	537
Carbon Sulphur Analysis	464
Niton XRF	136
Colorimetry	96
XRD-Quantified	108
Other	38
Electron Microprobe Analysis-oxides	2
IR Spectroscopy	1

3.3.3 Surface Samples/Observations analysis data

The SamplesObs_analysis folder contains a number of analytical results tables linked to drillhole sample/observations and grouped by analysis type/method.

See table below for list of xlsx files.

3.3.4 Surface Samples/Observations analysis data integration

Analytical results data tables have two unique TIGER database id identifiers numbers included:

- The first field designated 'ID' is a unique identifier for each Analytical record (or Analysis ID),

- The second id field is the 'Linked To ID *', is the unique identifier of a Samples/observations record, which the analytical record is linked to (or Sample/Obs ID).

Surface SamplesObs_analysis	Records
AAS analysis	48,875
XRF	42,760
Unknown	26,979
Emission Spectroscopy	14,907
ICPMS Analysis	12,108
Colorimetry	4,416
Fire Assay	3,497
Atomic Fluorescence Spectroscopy	1,933
Electron Microprobe Analysis-oxides	1,269
Hot HCL-XRF	954
Specific ion electrode	825
Carbon Sulphur Analysis	708
Neutron Activation Analysis	650
Other	625
Rock analyses - Wet chemistry	578
Cold HCL-XRF	554
XRD-Semiquantified	392
Laser Ablation ICP-MS	336
Graphite Furnace AAS	229
LECO	107
XRD-Quantified	99
bulk cyanide leach	58
Cold extraction followed by AA	54
Thermogravimetric	4
Ion exchange chromatography	12
Heavy Mineral content	12

3.4 Consolidated Petrophysical data

Petrophysical readings from the Sample/Observation database are provided in a consolidated table format (See xlsx file SamplesObs_Consolidated_Petrophysics). Samples/observations metadata and results data are provided in a single file.

4.0 Notes about the data supplied

The bulk data package supplied does not represent an exhaustive record of MRT data holdings. MRT captures, generates, compiles, and distributes geoscience data on an ongoing basis, and is in the early stages of capturing geochemical and observations data from MRTs own records and historical mineral exploration activity reports.

Geoscientific data is periodically released for public use when confidentiality provisions no longer apply to the data, with data releases occurring on a three monthly basis. A disclaimer for this data is attached as Appendix 1, and by viewing and using this data package, users of the data have indicated they accept the Licence conditions in the attached file.