

# Selected mineralization sites of Western Australia

by

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## Abstract

The provision of known mineralization sites for selected commodities assists with mineral exploration and other mineral-related studies. These sites provide further insight into the known spatial distribution of mineralized localities for specific commodities than has previously been readily available.

Many mineralized sites contain multiple commodities. These layers highlight where mineralization sites are known for specific commodities, even if they are a relatively minor component of the mineralization. Thus, they reflect the presence of mineralization for a commodity, not its endowment.

The mineralization sites are extracted from the MINEDEX database, which provides a coordinated, project-based inquiry system for textual information on mine, deposit, prospect and occurrence locations, as well as mineral resources and mine production. Data are collated from ASX reports, statutory exploration reports, mining proposals and production returns.

Mineralization sites are selected to exclude exploration targets and infrastructure not directly related to mineralization, such as tailings storage facilities and processing plants. They are derived from the SITE\_COMMODITY field and are filtered to ensure that only the relevant commodities are selected.

The order of listing of the commodity in the SITE\_COMMODITY field reflects its relative importance at that site. Only those identified as target commodities and listed in the TARGET\_COMMODITY\_GROUP field are classified in MINEDEX into four groups: mine, deposit, prospect and occurrence. Therefore, the SITE\_TYPE\_DESCRIPTION (i.e. mine, deposit, prospect or occurrence) is only applicable to the selected commodity if it is also listed in the TARGET\_COMMODITY\_GROUP field. If the commodity for a mineralization site is not listed in the TARGET\_COMMODITY field then it is not possible to allocate the relevant SITE\_TYPE\_DESCRIPTION without further investigation of the source data. In these instances, the site remains unclassified with respect to SITE\_TYPE\_DESCRIPTION.

<i>Site type</i>	<i>Definition</i>
Mine	A deposit which is being mined, was previously mined, or is proposed to be mined
Deposit	A mineral occurrence with probable economic value and for which there is an established resource
Prospect	Any mineral occurrence where economic grades have been intersected over a significant width and strike length but for which there is not yet a resource, or any working or exploration activity that has found subeconomic mineral occurrences and from which there is no recorded production
Occurrence	An occurrence (excluding those defined as mines, deposits or prospects) can be defined if an economic mineral has been identified in outcrop, or if assay results exceed an agreed concentration and size.
Unclassified	Mineralization site for which the TARGET_COMMODITY_GROUP does not reflect the specified commodity, and hence the SITE_TYPE_DESCRIPTION is not applicable

## How to access

The data layer is best accessed using [GeoVIEW.WA](#). This online interactive mapping system allows data to be viewed and searched together with other datasets, including Geological Survey of Western Australia and Geoscience Australia geochronology data, geological maps and mineral exploration datasets. The **Selected mineralization sites** digital data are also available as a free download from the [Data and Software Centre](#) via Datasets – Statewide spatial datasets – Mineral information – Selected mineralization sites, as ESRI shapefiles and CSV files.

## Recommended reference

Morin-Ka, S, Ormsby, W and Beardsmore TJ 2021, Selected mineralization sites of Western Australia: Geological Survey of Western Australia, digital dataset, <[www.dmirs.wa.gov.au/geoview](http://www.dmirs.wa.gov.au/geoview)>.

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