

Western Australia Exploration Geochemistry Online (wamexgeochem.net.au)

A facility to search for and download open file surface and downhole geochemistry data from exploration company datasets in GSWA's Mineral Drillholes Database.

Data in the 'geochemistry tables' in the database have been harmonised by standardising company analyte names and units.

Use the "Downhole assay" and "Surface assay" pages to execute searches using various criteria. Results will be displayed for viewing on-line. You can also choose to download your search results in a .zip archive.

Retrieved data for download are provided as a set of 'flat' .csv files containing drillhole/sample and assay details (one record per assay with both source and harmonised fields) and as a pivoted table of samples in rows by harmonised analyte assay values in columns, plus related geology / lithology data for DH searches.

[How to use the search/query/download features](#)

The search pages allow you to query the data using specific selection criteria and then download the resulting dataset so that you can further examine the data using your software of choice.

This facility is intended to be used for specific enquiries (using the provided criteria and/or latitude and longitude boundaries). If you wish to work with the complete database, don't try and search/download via these pages – there are "full database" packages and pivoted versions of "All WA" data available for download from the website in various formats.

Both the Downhole (DH) and Surface Sample (SS) search pages have similar features.

These pages allow you to search the database using one or more of the search criteria displayed at the top of each page.

The screenshot shows a search filter interface with the following elements:

- Filter search results** (Section Header)
- Company**: Text input field containing "All". Below it, a note says "Partial or complete company name. Case insensitive".
- Hole type**: Dropdown menu containing "All".
- Tenement ID**: Text input field containing "All". Below it, a note says "format eg: E0401441".
- Mapsheet**: Dropdown menu containing "All".
- Report number**: Text input field.
- Company hole ID**: Text input field.
- Select by location**: Section header.
- Upload a geojson file with polygon boundaries**: Text label.
- Browse...**: Button for file selection.
- No file selected.**: Text label.
- OR**: Text label.
- Set bounding box by clicking the map at two points to set opposite boundary corners**: Text label.
- Limit number of results**: Text label.
- 100**: Value in the limit dropdown menu.
- Clear**: Button.
- Search**: Button.

The search fields work in various ways to filter your search results, as described below:

Limit:

This field is used to restrict the number of Collars/Samples returned by your query. Various values are available in this dropdown list and we recommend that you start with a small number first to ensure you are getting the desired results from your other selection criteria.

Company:

Free-text field. You can enter a partial or complete Company name here. The query will return records where the entered string/value is found. This field is case-insensitive.

Hole Type/Sample Type:

Dropdown list, from which you can choose a single Hole/Sample Type.

Mapsheet:

Dropdown list, from which you can choose a single (250k) Mapsheet.

Report Number:

Free-text field. The 'ANumber' – or WAMEX Report id.

Company Hole/Sample ID:

Free-text field.

Tenement ID:

Start typing your desired Tenement ID in and you will see a list of Tenements matching that value - you can then select the Tenement you wish to search on. Note: Tenement ID's in the database have been standardised to the following format: E0401441 e.g.

Tenement ID

format eg: E0401441

- E4000229
- E4000263
- E4000270
- E4000283

You can use the 'Clear' button to reset your search criteria at any time.

Submit your search using the 'Search' button.

Searching via uploaded polygon:

If you wish to search in a specific / custom polygon, this is possible by using the "Browse..." button to select and upload a file in the .geojson format. These files can be created from within various GIS packages, e.g. QGIS.

ANNUAL REPORT ID

Select by location

Upload a geojson file with polygon boundaries

my_poly1.geojson

The geojson file should contain a single polygon only. The uploaded geojson file must be in the format:

```
{
  "type": "FeatureCollection",
  "name": "my_poly1",
  "features": [
    { "type": "Feature", "properties": { "id": null }, "geometry": { "type": "Polygon",
"coordinates": [ [ [ xx.xxxx, yy.yyy ], [ xx.xxxx, -yy.yyyy], ... ] ] } }
  ]
}
```

For example:

```
{
  "type": "FeatureCollection",
  "name": "my_poly1",
  "features": [
    { "type": "Feature", "properties": { "id": null }, "geometry": { "type": "Polygon",
"coordinates": [ [ [ 117.204050852514371, -30.174921788842042 ], [ 117.144699587924976, -
28.883922377382905 ], [ 118.969753564839309, -28.870929637712234 ], [ 120.141942660868395, -
29.76359786627318 ], [ 119.800672350458058, -30.788697904385355 ], [ 117.574996686217162, -
31.7020488855119 ], [ 117.204050852514371, -30.174921788842042 ] ] ] } }
  ]
}
```

The website will 'remember' your .geojson file selection until you use the "Clear" button to reset your search criteria.

Searching via map bounds:

If you wish to search via certain geographic bounds, you can select the desired search area directly from the map.

Zoom the map in to your approximate area of interest.

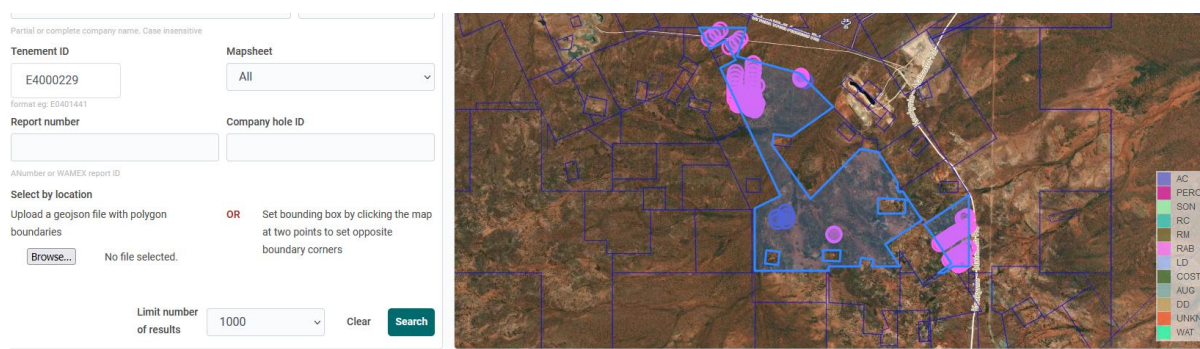
Then click once on the top left corner of your desired area. This will place a marker on the map.

Click again in the bottom right of your desired area. This will place a second marker and show the rectangular bounds.

Search results:

Once you submit your search query, the results will be displayed on-screen. Depending on the nature of your search this may take anywhere from 2-3 seconds to a minute.

The initial results are shown as a 'summary' table of Collars/Samples together with their locations on the adjoining map – see the example below:



Search results - Collars / Sites

Showing 1 to 5 of 166 entries

Hole ID	ANumber	Company Hole ID	Company	Lat	Lng	Type	Azimuth	Dip	Max Depth	ID
108113North KookynieKYA15102	108113	KYA15102	A & C Mining Investment Pty Ltd	-29.23941	121.42399	AC	360	-90	72	3896118
108113North KookynieKYA15103	108113	KYA15103	A & C Mining Investment Pty Ltd	-29.23848	121.42411	AC	360	-90	47	3896119
108113North KookynieKYA15104	108113	KYA15104	A & C Mining Investment Pty Ltd	-29.23764	121.42382	AC	360	-90	45	3896120
108113North KookynieKYA15105	108113	KYA15105	A & C Mining Investment Pty Ltd	-29.23947	121.42188	AC	360	-90	60	3896121

You can see that basic Collar/Sample results are shown in the table. If you search via Tenement ID, as in the example above, the tenement outline is also shown on the map (tenement outlines will also be shown at certain map zoom levels).

In the map display, if you hover the cursor/pointer over a single Hole/Sample, the cursor changes to a "Pointing Finger". Click to see more information about that Hole/Sample – you can also then click on the 'View Assays' button to display more results for that item.



Processing the search results:

From here, you can choose to download the whole of your selected dataset to a local file for further detailed investigation, using the “Download” button.

This will return a zip archive consisting of csv files for your selected Collars/Samples and the associated Assays plus a pivoted assay dataset, plus related geology/lithology data for DH searches.

Note: Creating and downloading the zip archive may take some time. You will be shown a “downloading” message while this takes place.

However – you may wish just to examine the data further online without or before downloading.

If you click on an individual Collar/Sample row, this will highlight the row and the ‘Get Assays’ button beneath the table.

Clicking on ‘Get Assays’ populates and displays detailed results for that Collar/Sample.

The “raw” Assay results for the selected Collar/Sample, in a one line per assay/analyte basis. This can return many rows for a deep hole and/or where there are many analyte results (some holes may have thousands of entries here, so returning them may take a few seconds).

Assays for drillhole: 62530Dalrymple-MelitaMVR064

Showing 1 to 5 of 16 entries

Switch table view

Search:

Company Hole ID	Company Sample ID	From Depth	To Depth	Attribute Column	Attribute Value	Units	Dsc	DH Geochem ID	Aid
MVR064	S33877	0.00	5.00	AUPPB	84	ppb		66184695	2889138
MVR064	S33877	0.00	5.00	AU1	84	ppm		66184695	2889138
MVR064	S33877	0.00	5.00	AG	-1	ppm	LDL	66184695	2889138
MVR064	S33877	0.00	5.00	CU	37	ppm		66184695	2889138
MVR064	S33877	0.00	5.00	MN	210	ppm		66184695	2889138

Previous Next

Show entries

The Assay data can also be shown in a “Pivoted” form – Assays/Intervals are shown as a single row with all recorded analyte results shown across the page. In the event of multiple assay results for the same analyte for an interval/sample, the highest value will be shown in the pivot table. If there are too many elements to display in the grid, a small “+” button will appear – when clicked, this will display the additional analytes/elements.

Assays for drillhole: 62530Dalrymple-MelitaMVR064

Showing 1 to 2 of 2 entries

Switch table view

Search:

Company Hole ID	Company Sample ID	From Depth	To Depth	Ag_ppm	Au_ppm	Cu_ppm	Mn_ppm	Ni_ppm	Pb_ppm	Zn_ppm
MVR064	S33877	0.00	5.00	-1	84	37	210	27	9	24
MVR064	S33878	29.00	34.00	-1	-0.001	31	880	25	3	72

Previous Next

Show entries

You can switch between the “raw” and “pivoted” views as required.

These tables allow you to perform basic analysis before you decide/refine a dataset to download for further investigation.

Analyte names have been standardised to account for the many variances within the original data, and the displayed results have been standardised to 'PPM'.

No Assay results?

There may be occasions when you select a Collar/Sample and click 'Get Assays', but no assay results are found. The 2 most common reasons for this are:

- The selected Collar/Sample appears in multiple 'aNumber' reports, and not all of them have assays. In such cases, there may be multiple entries for the same Collar/Sample in your search results – one (or more) of which will have assays associated with them.
- There is no assay data in the database as collar locations have been extracted manually from PDF copies of older reports. The data assay may be found by looking at the original report.

Data Harmonisation Process:

Company analyte column headings as supplied in submitted datasets were programmatically matched to standard analyte names in a 'match table' (available for download from this website). The 'type' of match for each original value is shown in the table.

Scripts were run on the original database to harmonise the company analyte names to the matched standard analyte names, and to recalculate assay values in the company-supplied units of measure as ppm. Locations are in Lat/Long GDA94.

Important Note

The data in the tables have been extracted from the Mineral Drillholes Database which stores the assay data **as supplied** by mining and exploration companies. There has been no quality control carried out on the actual results.

It is incumbent on the user to check the original reports if there is any doubt about the validity of the harmonised data.

In carrying out this exercise a number of potential data errors have been identified. The most common is with the units of measure that have been supplied by the company. Any suspicious/unexpected units of measure should be checked and disregarded if found to be outside normally expected values.

No corrections have been made to units of measure values at this time. It would be appreciated if any spurious data could be reported to wamexenquiries@dmirs.wa.gov.au

Other Downloads

Also available for download from this website:

- Complete "Open File MDHDB" database (Microsoft SQL Server 2016 .bak format) as supplied by GSWA (current release).
- An "All of WA harmonised & pivoted Assays" dataset (Microsoft SQL Server 2008 onwards .bak format). This dataset provides harmonised and pivoted data (all analytes) for all of WA Downhole (DH) and Surface (SS) assays derived from the current release of the GSWA MDHDB database.
- Postgres format versions of the "All WA Pivoted" data and a Postgres format backup of the tables used by this website.