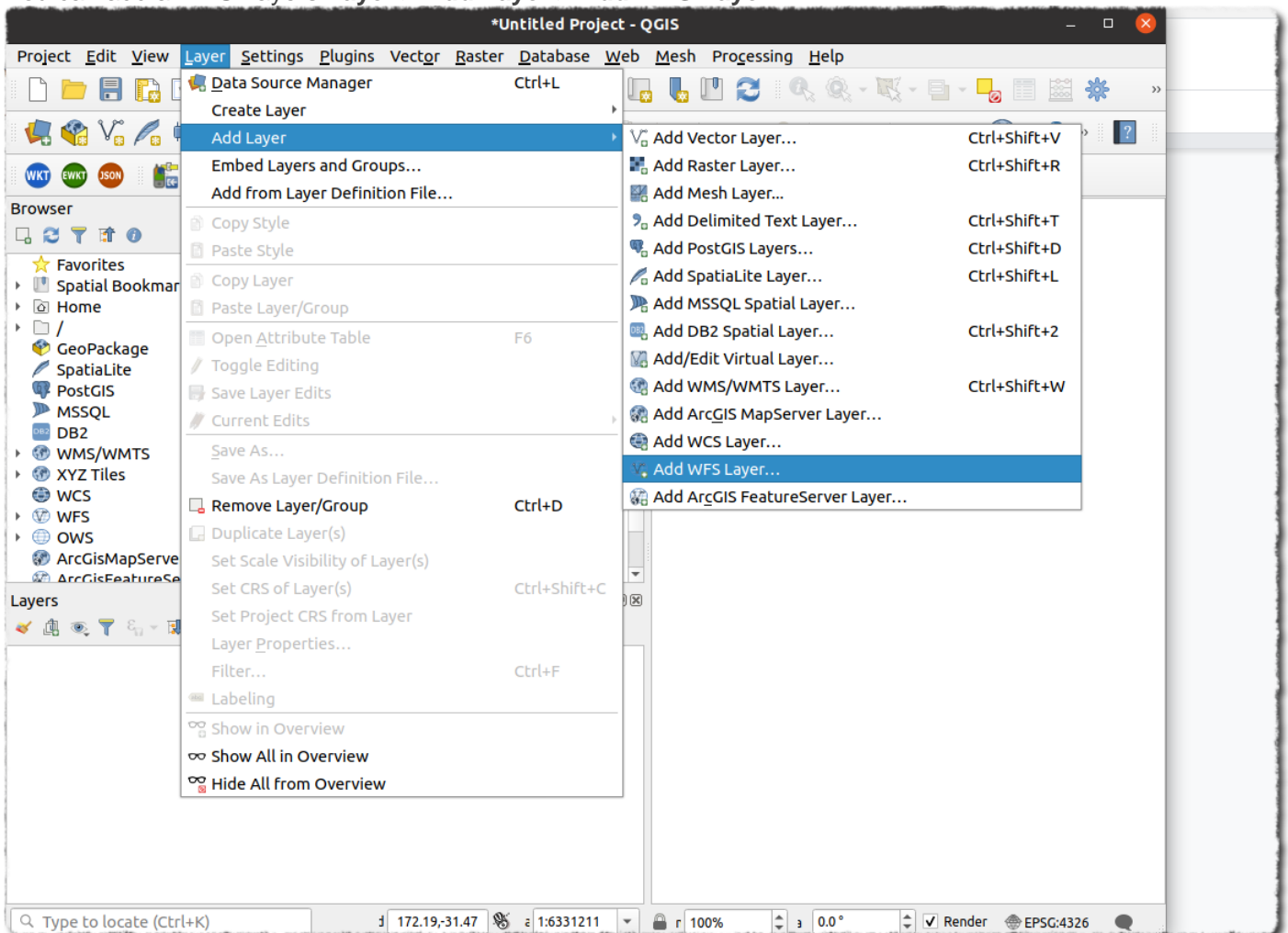


Accessing the Trap.NZ map feeds with QGIS

Accessing layers

You can add a WFS Layers **Layer > Add Layer > Add WFS Layer**



Create a new Server Connection and enter the WFS URL in the format [described here](#)

https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id

The WFS server is set to return a maximum of 10k features per request. If you have more than this number of features you must enable paging and set a page size less than 10,000. We recommend 5000.

Connection Details

Name

URL

Authentication

Configurations

Basic

Choose or create an authentication configuration

No authentication ▾



Configurations store encrypted credentials in the QGIS authentication database.

WFS Options

Version

Maximum ▾

Detect

Max. number of features

☒ Enable feature paging

Page size

5000

☐ Ignore axis orientation (WFS 1.1/WFS 2.0)

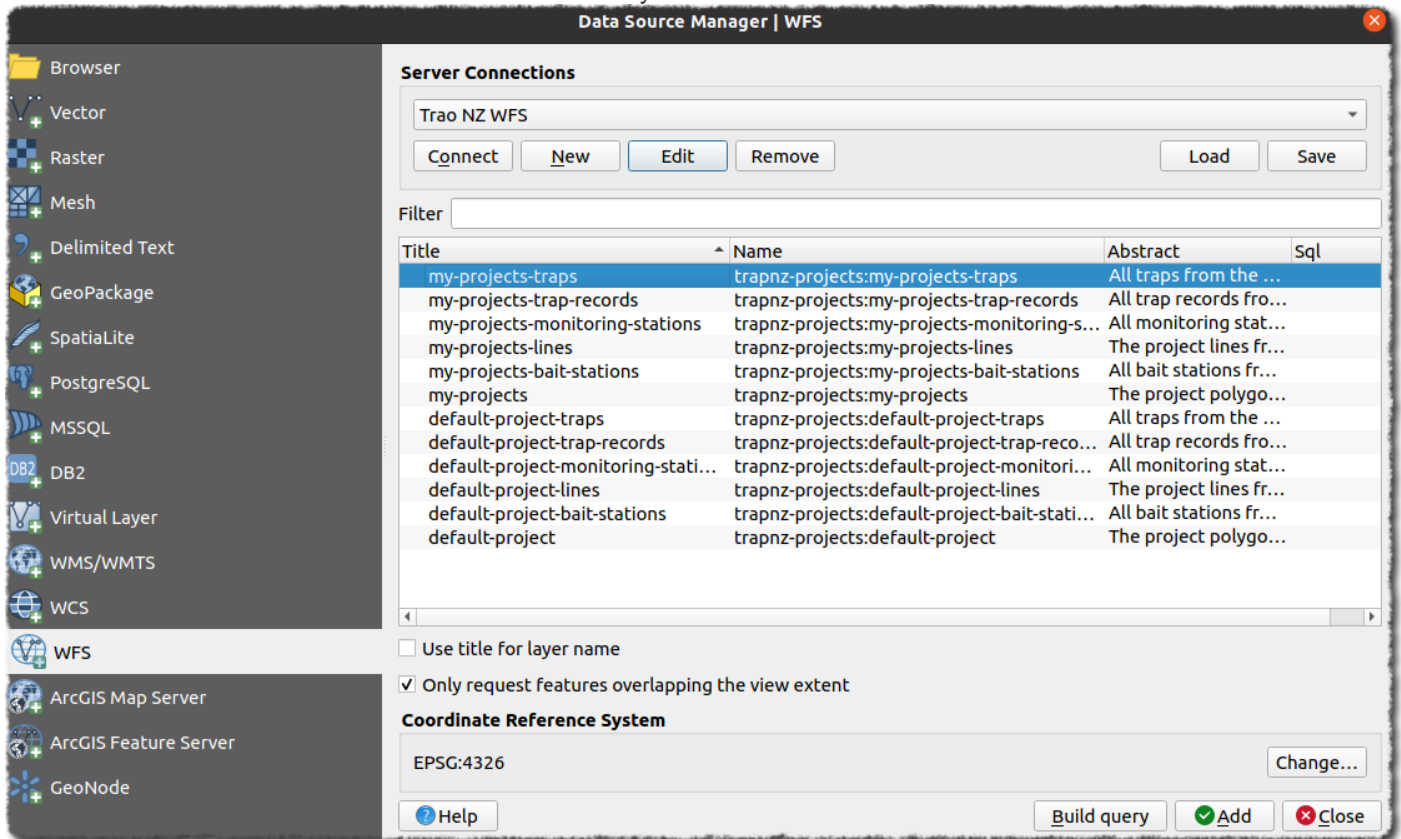
☐ Invert axis orientation

Help

Cancel

OK

Save and then click Connect to see the available layers:



You can then add individual or groups of layers to the map.

Filtering records

You can add a CQL filter to a WFS connection to filter features from the WFS server. This can greatly reduce the amount of data retrieved (speeding up the transfer and improving performance).

For example - if you are only interested in this year's records, you could add a CQL filter to build the query as a filter *before* loading the layer from the server.

1. Connect to the server as above to see the list of available layers.
2. Select the layer you want to query (e.g. default-project-trap-records) and click the Build query button

3. In the dialog that appears, enter the following `SELECT * FROM "default-project-trap-records" WHERE record_date > '2021-01-01'` (or whatever date you wish to use)

SQL Query Composer

SQL Statement: `SELECT * FROM "default-project-trap-records" WHERE record_date > '2021-01-01'`

Columns: *

Table(s): "default-project-trap-records"

Joins:

| Joint layer | ON condition |
|-------------|--------------|
| | |

Where: `record_date > '2021-01-01'`

Order by:

Buttons: Help, Reset, Cancel, OK

4. Press OK. The expression used will appear as the Sql value of the target layer:

Server Connections

Trap NZ WFS

Buttons: Connect, New, Edit, Remove, Load, Save

Filter:

| Title | Name | Abstract | Sql |
|-------------------------------------|---|-------------------------|---|
| my-projects-traps | trapnz-projects:my-projects-traps | All traps from the ... | |
| my-projects-trap-records | trapnz-projects:my-projects-trap-records | All trap records fro... | |
| my-projects-monitoring-stations | trapnz-projects:my-projects-monitoring-s... | All monitoring stat... | |
| my-projects-lines | trapnz-projects:my-projects-lines | The project lines fr... | |
| my-projects-bait-stations | trapnz-projects:my-projects-bait-stations | All bait stations fr... | |
| my-projects | trapnz-projects:my-projects | The project polygo... | |
| default-project-traps | trapnz-projects:default-project-traps | All traps from the ... | |
| default-project-trap-records | trapnz-projects:default-project-trap-reco... | All trap records fro... | <code>SELECT * FROM "default-project-trap-records" WHERE record_date > '2021-01-01'</code> |
| default-project-monitoring-stati... | trapnz-projects:default-project-monitori... | All monitoring stat... | |
| default-project-lines | trapnz-projects:default-project-lines | The project lines fr... | |
| default-project-bait-stations | trapnz-projects:default-project-bait-stati... | All bait stations fr... | |
| default-project | trapnz-projects:default-project | The project polygo... | |

Options: ☐ Use title for layer name, ☒ Only request features overlapping the view extent

Coordinate Reference System

EPSG:4326

Buttons: Help, Build query, Add, Close

When you add the layer now, only the filtered records (features) will be loaded.

Revision #1

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