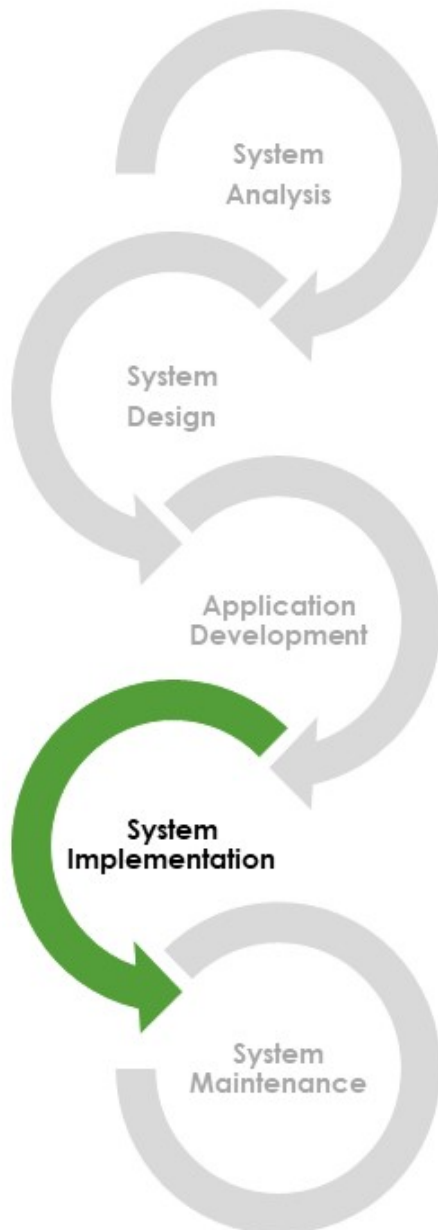


GEOPORTAL PHILIPPINES: MAP BUILDER



SYSTEM USER MANUAL

Geospatial System Development Division
Geospatial Information System Management Branch

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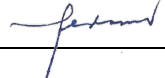
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1 DOCUMENT PROPERTIES

1.1 DOCUMENT ATTRIBUTE

SYSTEM	Geoportal Philippines: Map Builder
TYPE	System User Manual
DATE	07 December 2023
AUTHOR	Melvin O. Perez, Gerardo B. Tanabe
LOCATION	\\N-GISMB-GSDD01\GSDDProjects\GeoportalPhilippines\System Implementation\System User Manual

1.2 DOCUMENT VERIFICATION

VERIFIED BY				
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2 BACKGROUND

The Geoportal Philippines: Map Builder is an online facility for uploading geospatial data and metadata by the Stakeholder Agencies.

3 HARDWARE/SOFTWARE REQUIREMENTS

Minimum hardware requirements:

- Operating System: Windows 7 / Windows 8 / Windows 10/ Windows 11
- Processor: Intel® Core™ 2 Duo or AMD Athlon™ 64 X2 5600+
- Video: NVIDIA® GeForce® 7600 GT or ATI™ Radeon™ HD 2600 XT or Intel® HD Graphics 3000 or better
- Memory: 2 GB RAM
- Internet: Broadband Internet Connection
- Resolution: 1024X768 minimum display resolution

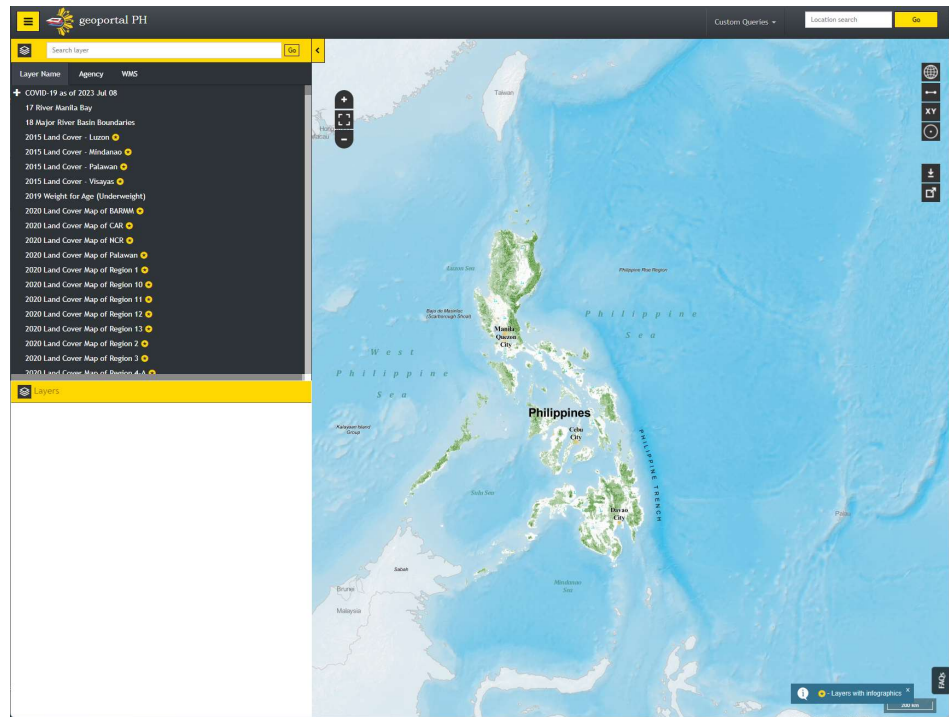
4 GETTING STARTED

4.1 HOW TO LAUNCH THE MAP BUILDER

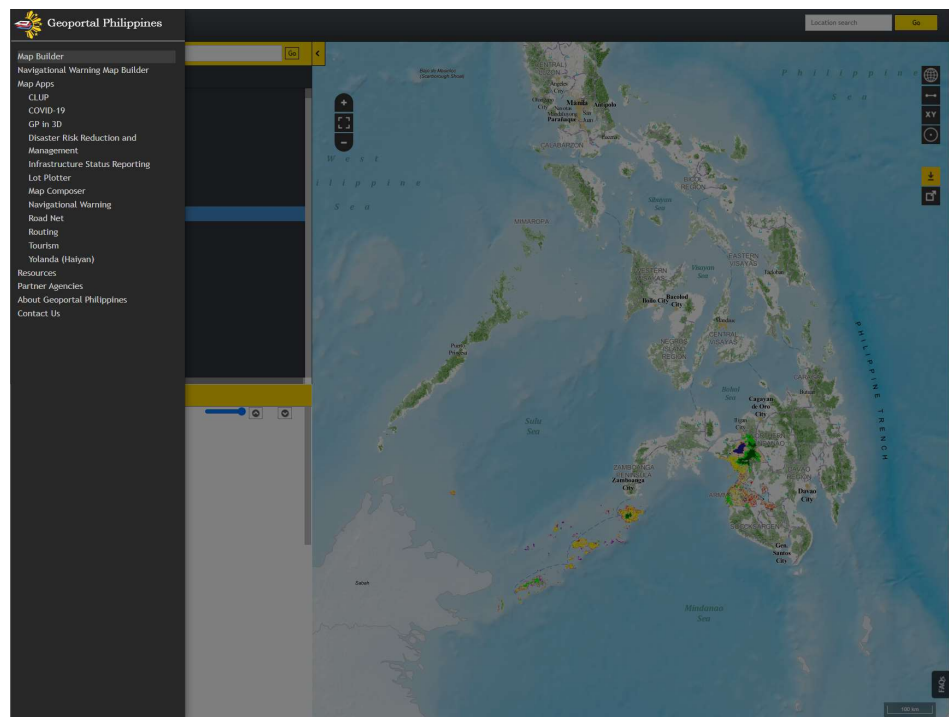
- 4.1.1 Open a web browser and go to <https://www.geoportal.gov.ph>.



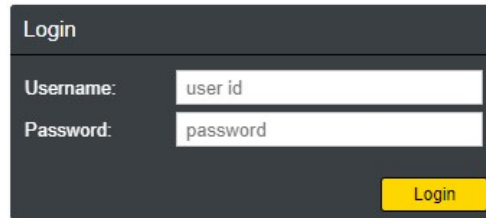
4.1.2 The Geoportal Philippines page will be displayed.



4.1.3 Click the Menu  → Map Builder.

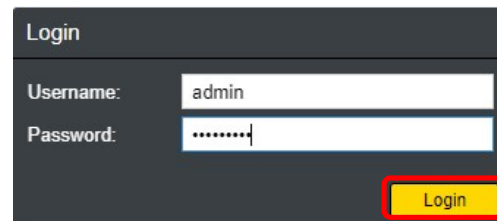


4.1.4 The **Login** screen will be displayed.

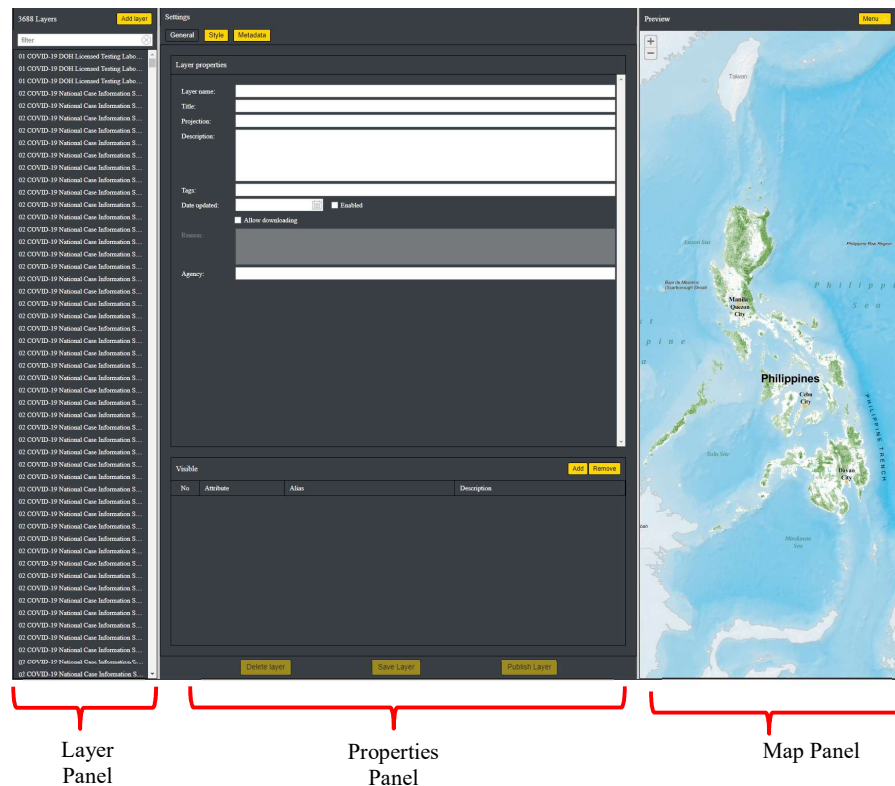


4.2 LOGGING IN

4.2.1 To login, type your username and password and click the **Login** button.



If the credentials entered is valid, the **Map Builder** page will be displayed, otherwise, displays an “*Invalid Username/Password*” message.



Layer Panel

- Displays the list of all uploaded layers

Properties Panel

- Displays the properties of a layer

General tab

Layer name	Unique identifier
Title	Title of the layer that will appear in the Map Viewer
Tags	Keywords to be used to search for a Navigational Warning layer.
Projection	Displays the native projection of the layer
Date updated	Date when the layer was updated
Enabled	When ticked, the layer will be displayed, otherwise, the layer will be hidden in the Map Viewer.
Allow downloading	If ticked, the layer will be available for download in the Map Viewer
Reason	If the allow downloading is not ticked. A reason must be given on why the layer is not available for download.
Agency	Data owner of the layer
Visible attributes	Attributes that will be displayed when the user hovers on a feature.

Style tab – this contains the style that will determine the look of the layer. Pre-defined styles are already available. The user can also perform inline editing of values.

Metadata tab – contains information about layer. The user can also perform inline editing of values.

Map Panel

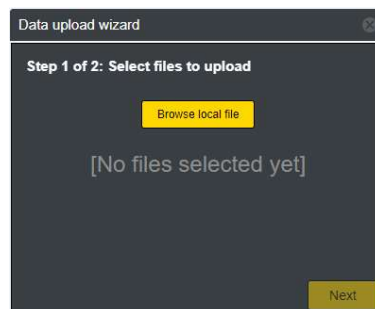
- Displays the basemap and layer overlays.

4.3 HOW TO ADD A LAYER

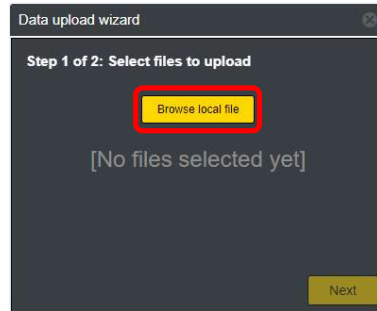
4.3.1 Click the **Add Layer** button in the upper left corner of the **Layer Panel**.



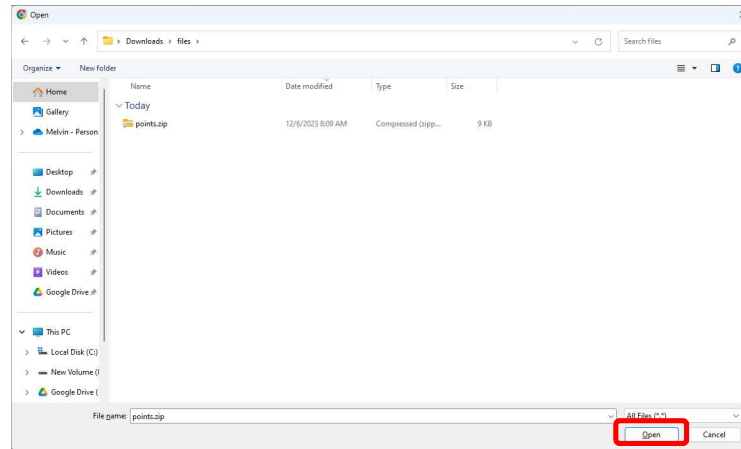
4.3.2 The **Data upload wizard** dialog will be displayed.



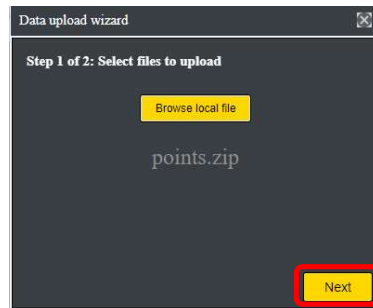
4.3.3 Click the **Browse local file** button.



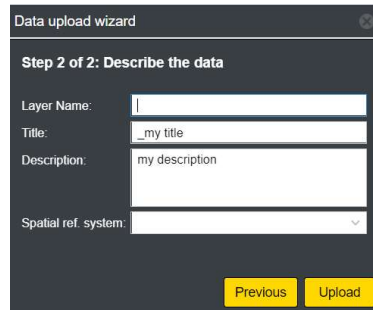
The **Open** dialog window will be displayed. Select the shapefile (compressed shapefile format with .zip extension) to be uploaded and then click the **Open** button.



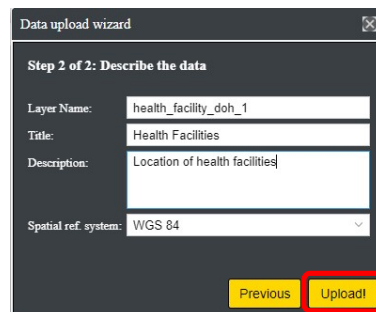
4.3.4 The filename will be displayed in the **Data upload wizard** dialog window. Click the **Next** button.



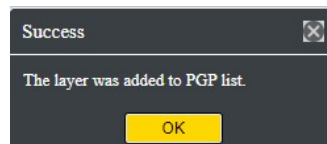
4.3.5 The **Data upload wizard: Describe the data** page will be displayed.



4.3.6 Input the layer name, title, description, and select the spatial reference system of the file. Click the **Upload** button. The file will be uploaded and the layer will be added to the list.

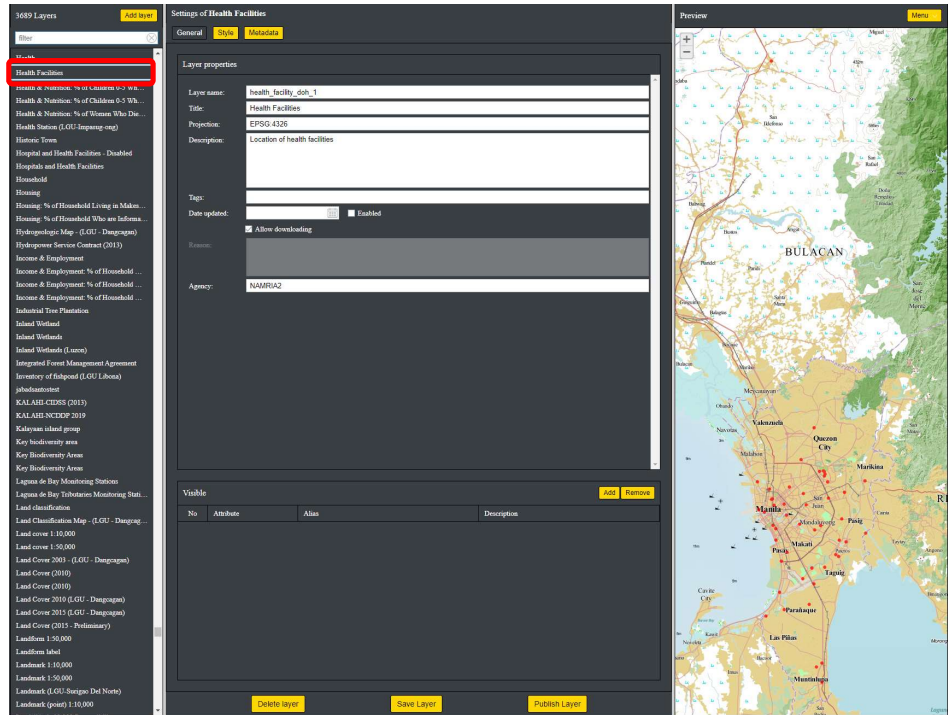


4.3.7 The file will be uploaded and a *“The layer was added to PGP list”* message will appear. Otherwise, it will display an error message.



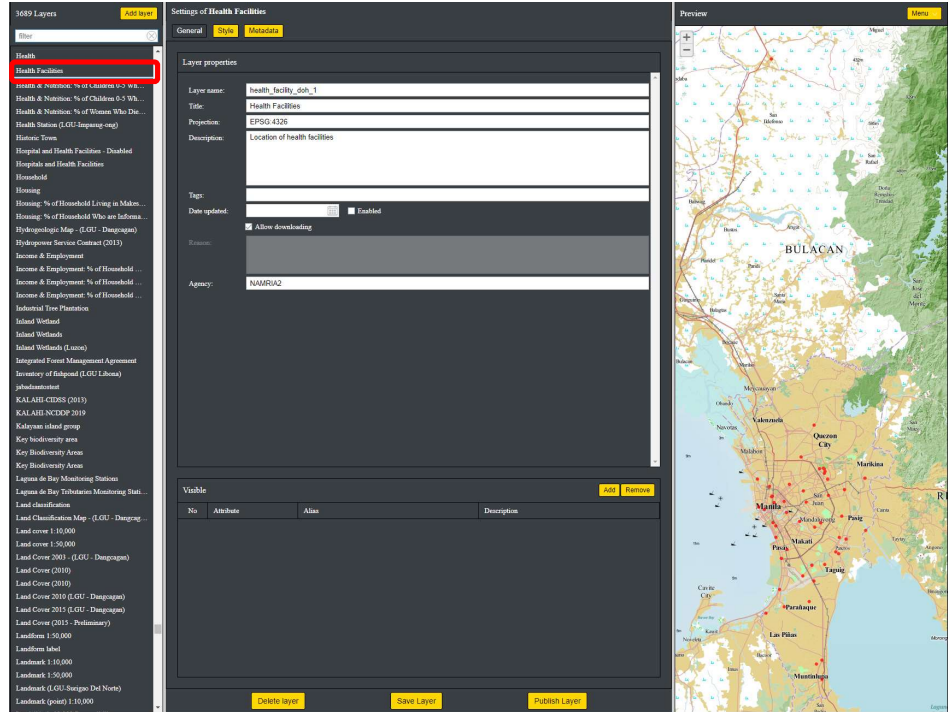
4.4 HOW TO SELECT A LAYER

- 4.4.1 Click a layer from the **Layer Panel**. The settings of the layer will be displayed in the **Settings Panel**, the **Map Panel** will display the layer and will zoom-in full to its full extent.

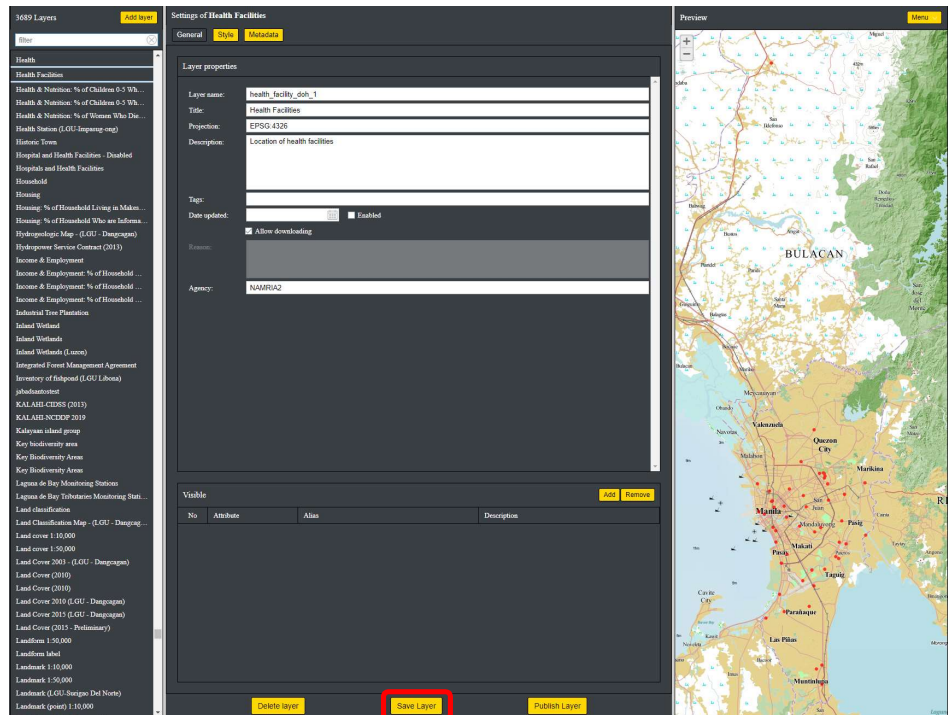


4.5 HOW TO EDIT A LAYER'S PROPERTIES

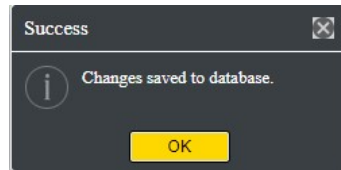
- 4.5.1 Select a layer. If not selected, click the **General** tab.



4.5.2 The properties of the selected layer can be edited. Click the **Save Layer** button.



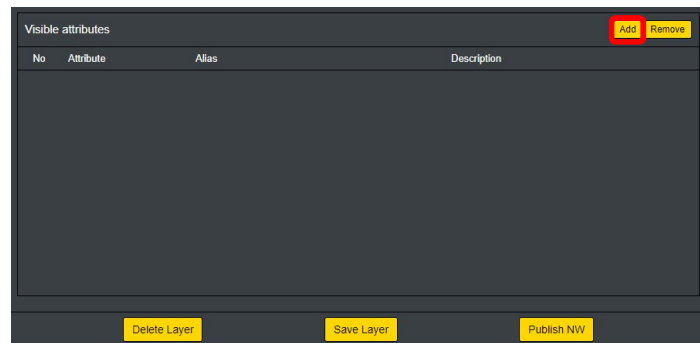
4.5.3 The file will be updated and a “Changes saved to database” message will appear.



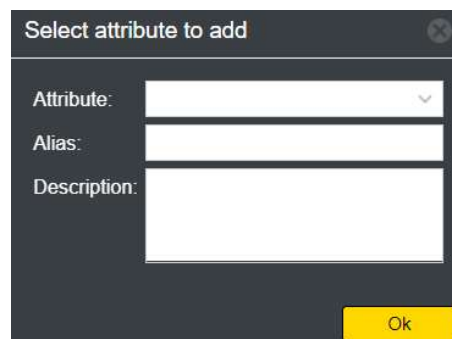
4.6 HOW TO MANAGE A LAYER’S VISIBLE ATTRIBUTES

4.6.1 How to add an attribute

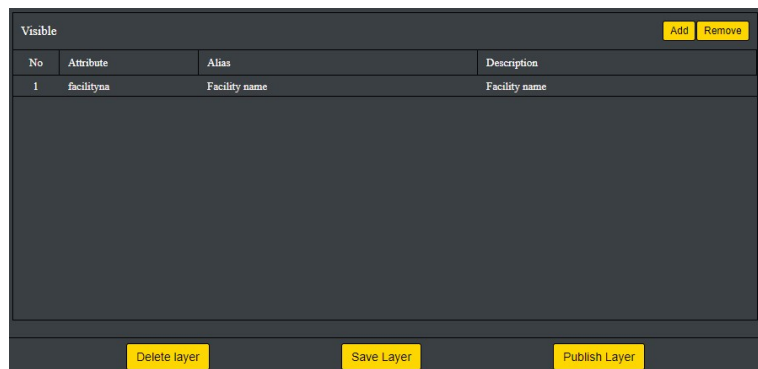
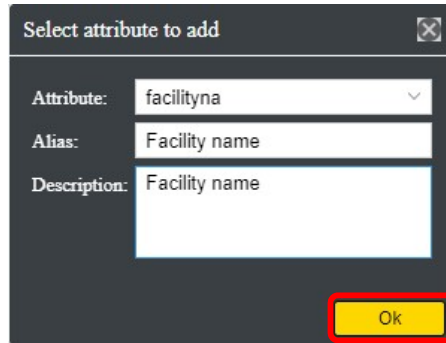
4.6.1.1 Select a layer. In the **Visible attributes** grid, click the **Add** button.



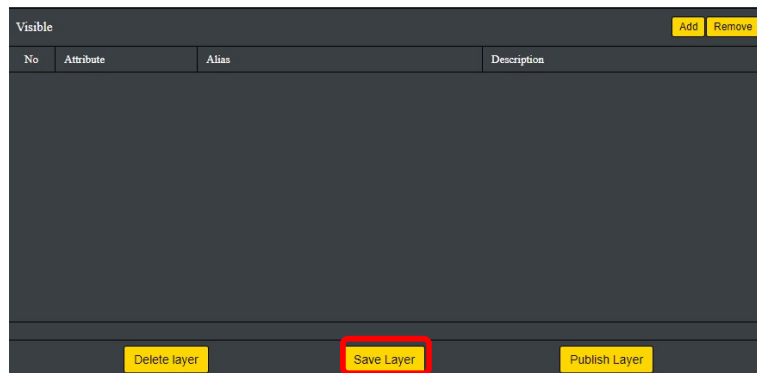
4.6.1.2 The attribute window will appear.



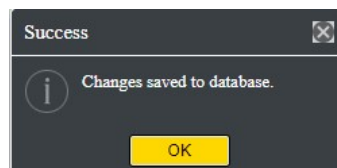
4.6.1.3 Select an attribute in the dropdown list. Input alias and description. Click the **Ok** button. The attribute will be added in the list of visible attributes (to add multiple attributes, repeat steps 3.6.1.1 to 3.6.1.3).



4.6.1.4 Click the **Save Layer** button.

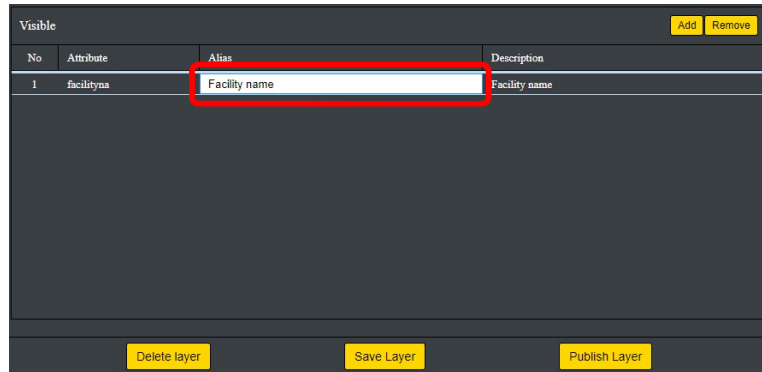


4.6.2 The changes to the visible attributes will be saved and a “Changes saved to database” message will appear.

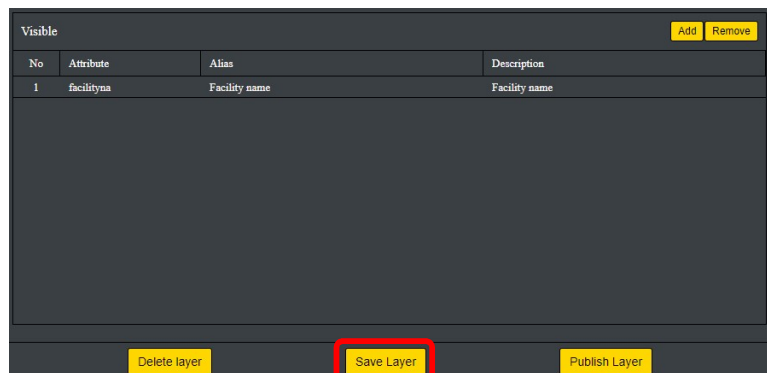


4.6.3 How to edit an attribute

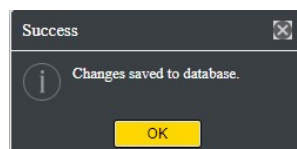
4.6.3.1 Select an attribute from the list. Double click the column to be edited.



4.6.3.2 Make the necessary changes and click the **Save Layer** button.

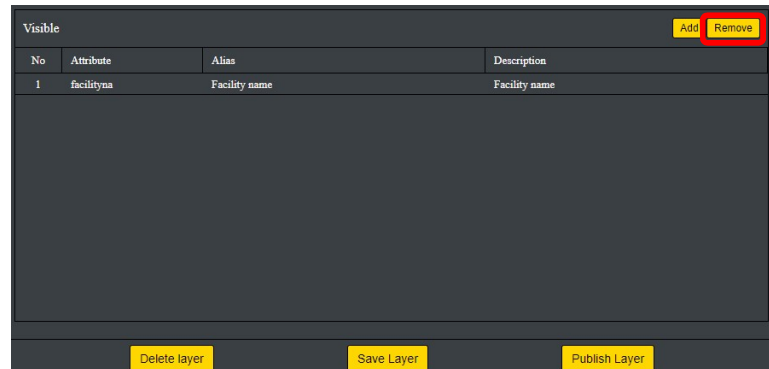


4.6.3.3 The visible attribute changes will be saved and a message “Changes saved to database” will appear.



4.6.4 How to delete an attribute

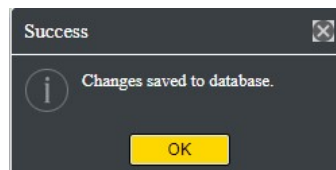
4.6.4.1 Select an attribute from the list. Click the **Remove** button.



4.6.4.2 The selected attribute will be removed from the list.

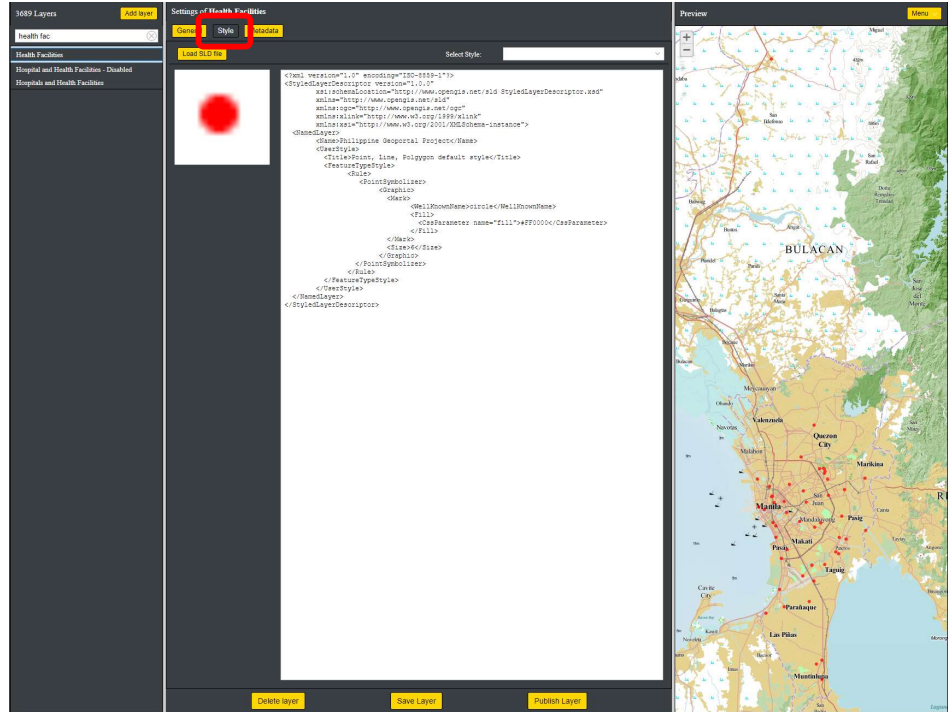
4.6.4.3 Click the **Save Layer** button.

4.6.4.4 The visible attribute changes will be saved and a message “Changes saved to database” will appear.

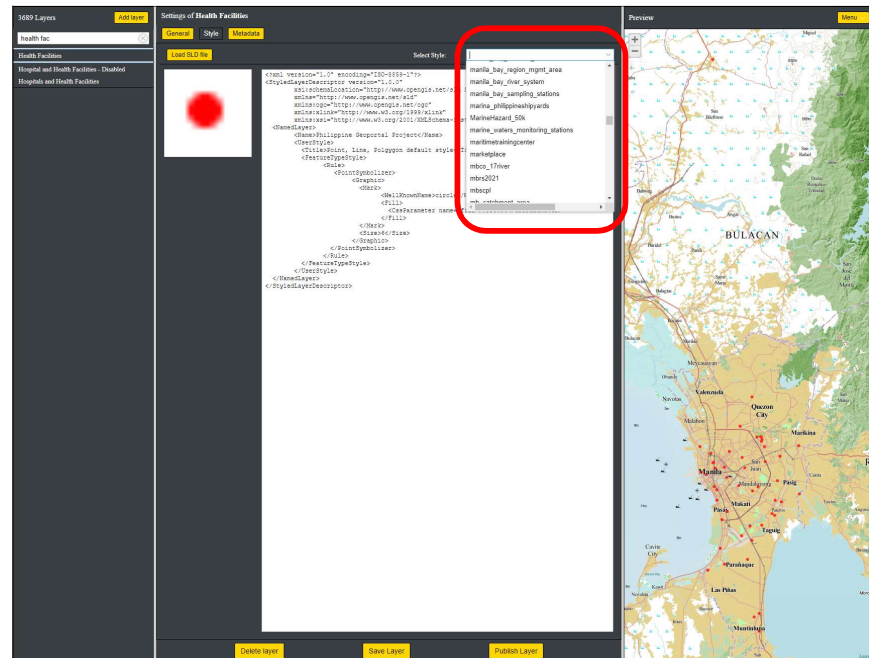


4.7 HOW TO STYLE A LAYER

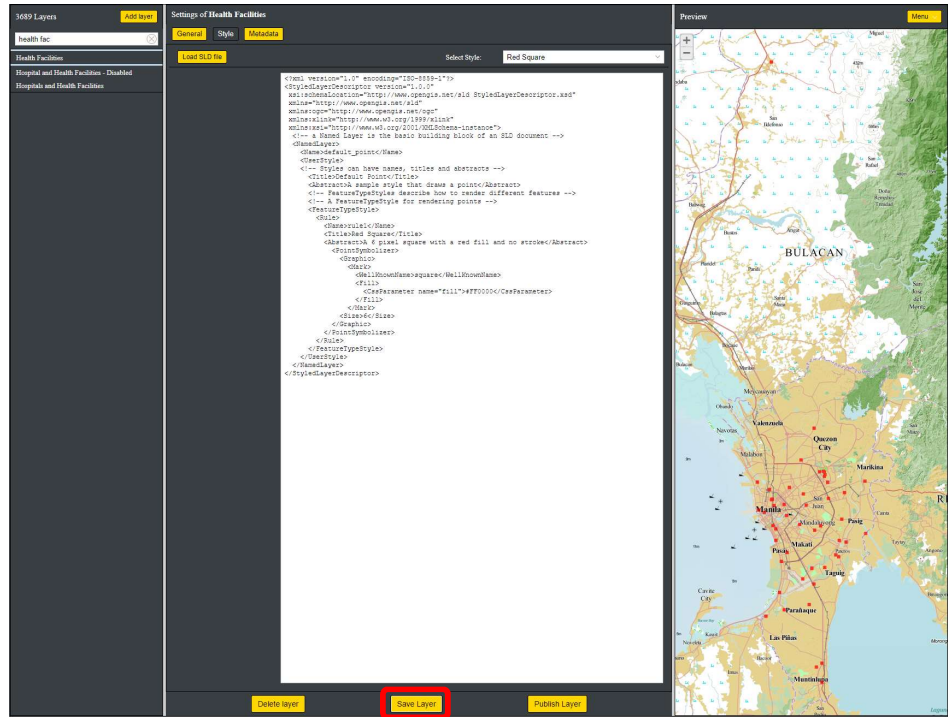
4.7.1 Select a layer from the list. In the **Settings panel**, click the **Style** tab to select it.



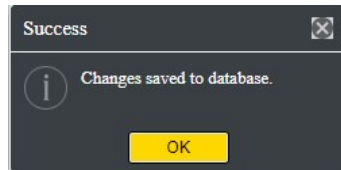
4.7.2 By default, a style is automatically assigned to a layer. To change the style of a layer, select a style from the **Select style** dropdown (keyword can also be used to filter the dropdown content). The textbox will display the selected style.



4.7.3 Click the **Save Layer** button.

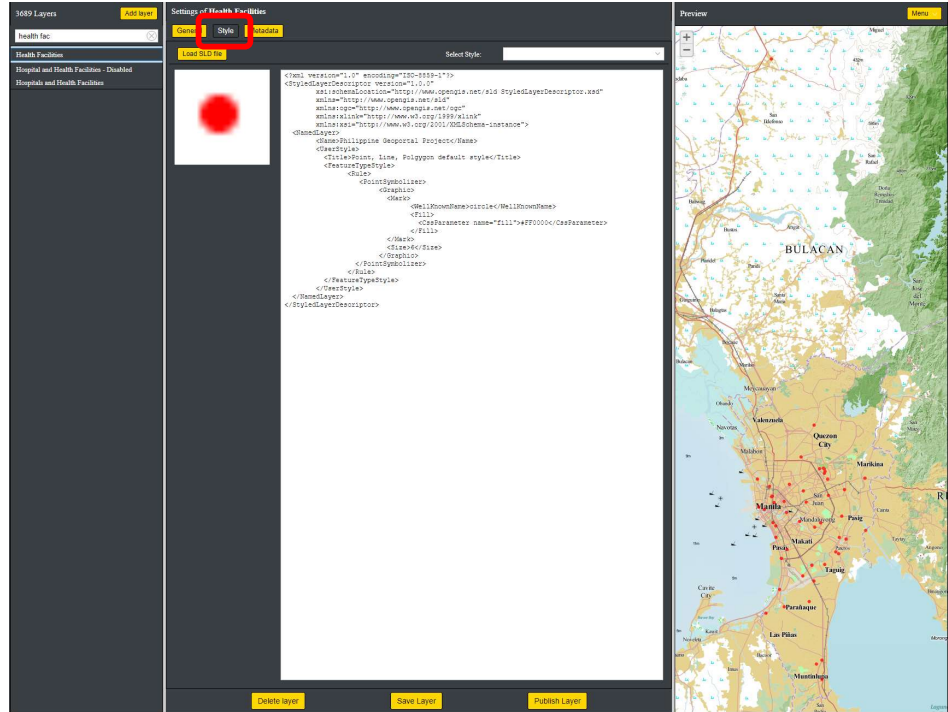


4.7.4 The style will be updated in the Map panel and a “Changes saved to database” message will appear.

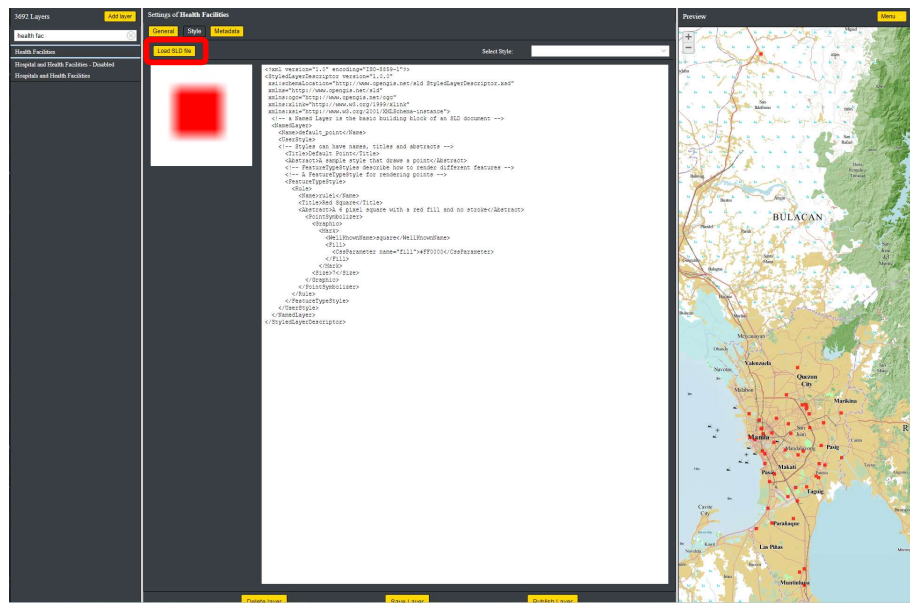


4.8 HOW TO UPLOAD A LAYER’S STYLE

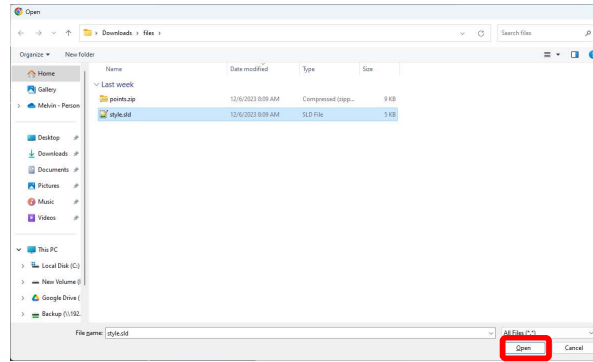
4.8.1 Select a layer from the list. In the **Settings panel**, click the **Style** tab to select it.



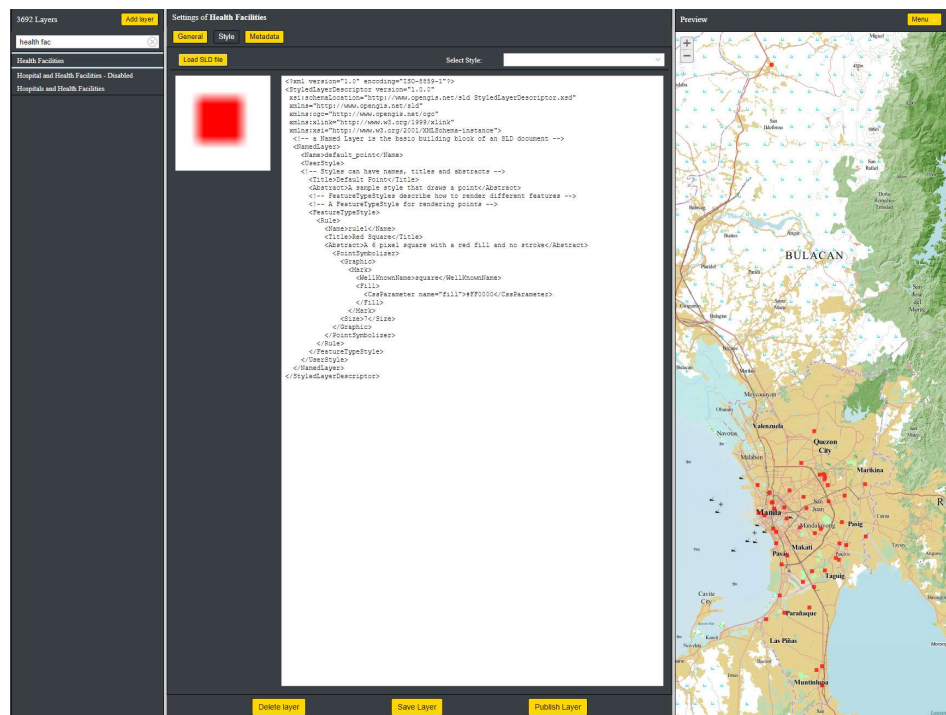
4.8.2 By default, a style is automatically assigned to a layer. To upload a style, click the **Load SLD file** button



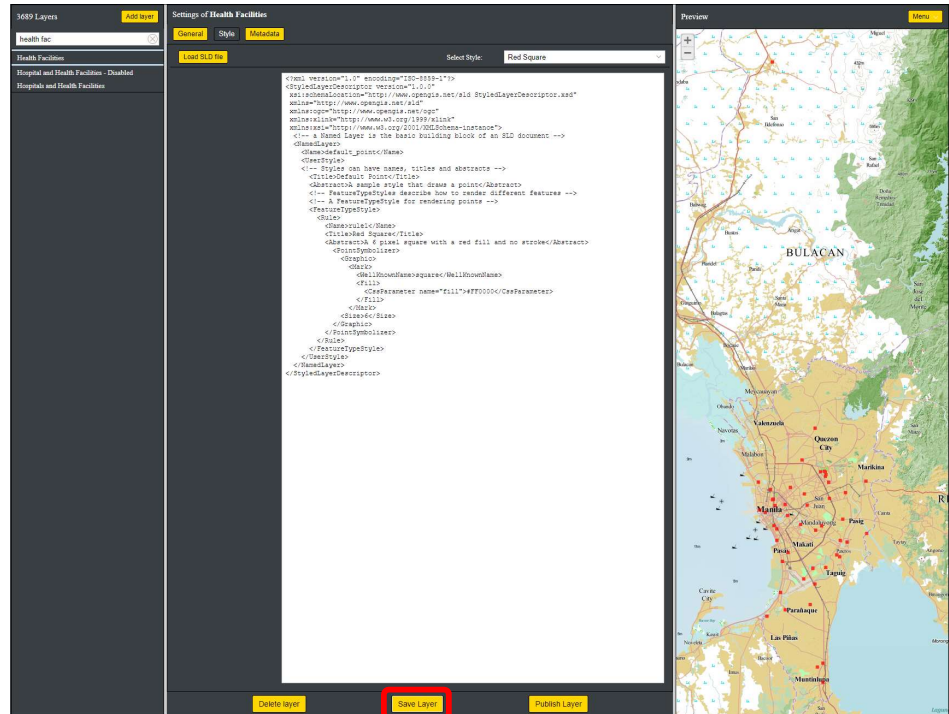
4.8.3 Locate the SLD file and click **Open**.



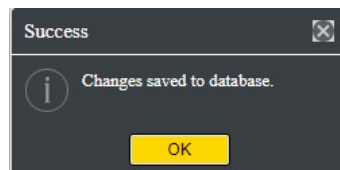
4.8.4 The selected SLD will be displayed.

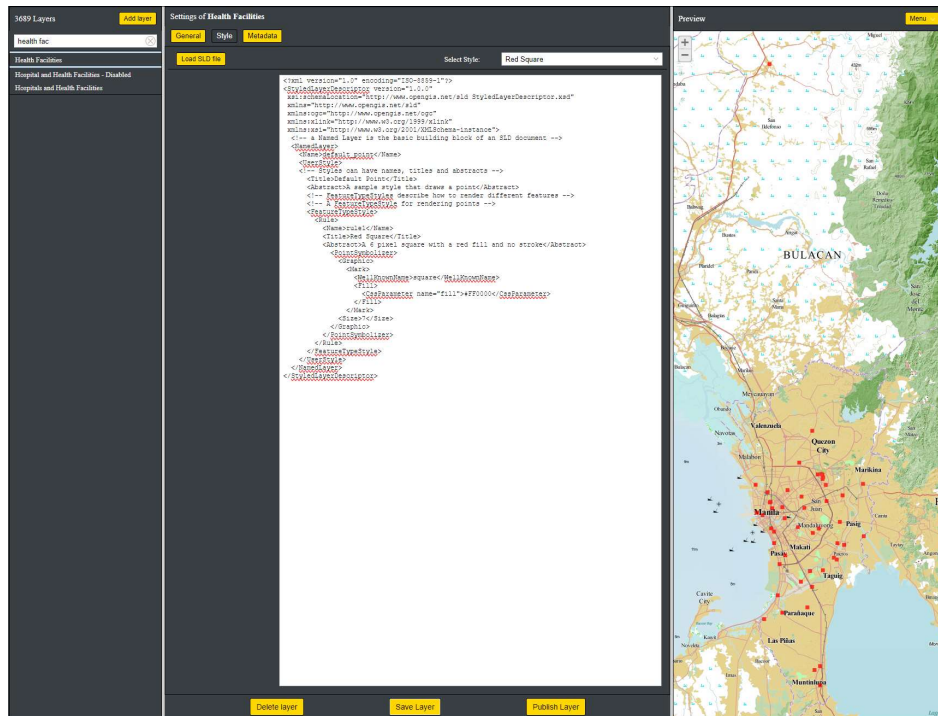


4.8.5 Click the **Save Layer** button.



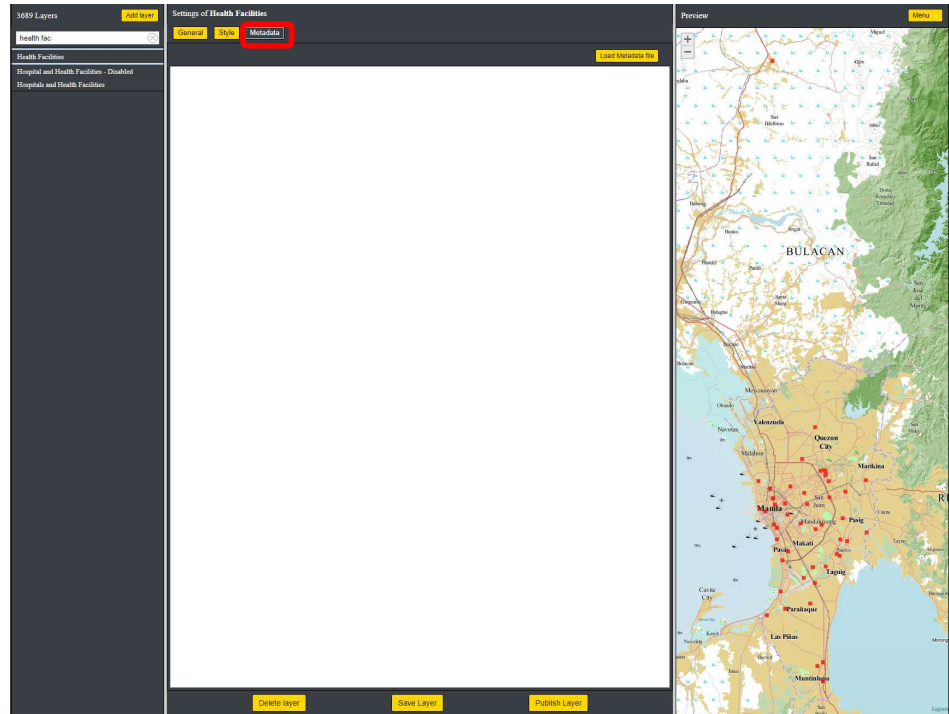
4.8.6 The style will be updated in the Map panel and a “Changes saved to database” message will appear.



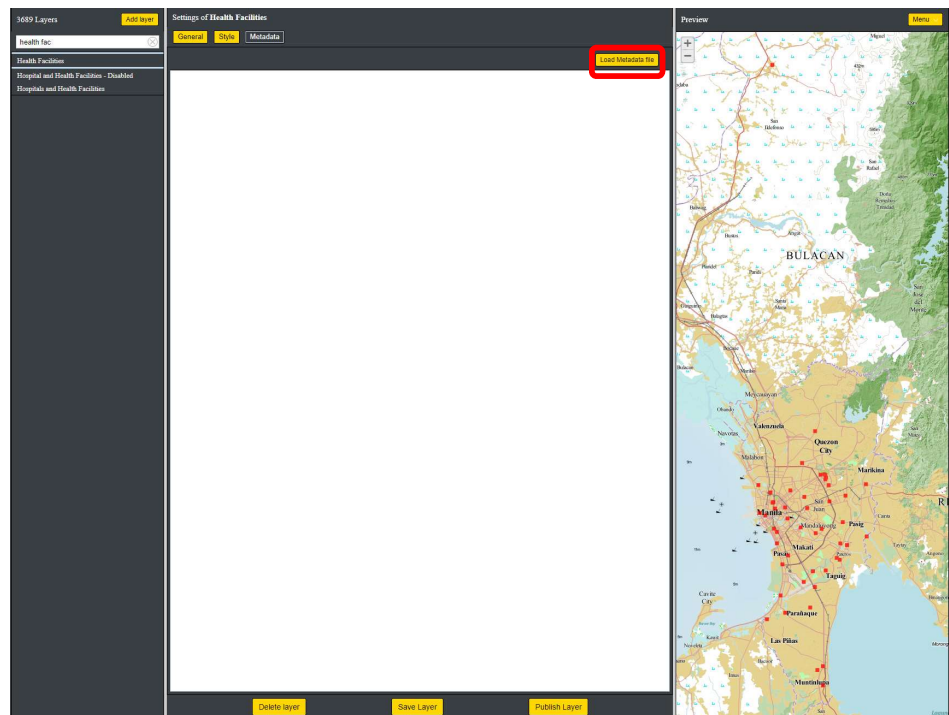


4.9 HOW ADD METADATA TO A LAYER

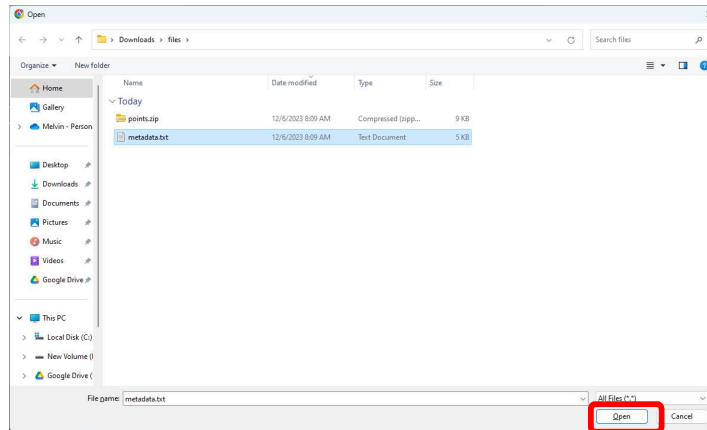
- 4.9.1 Select a layer from the list. In the **Settings panel**, click the **Metadata** tab to select it.



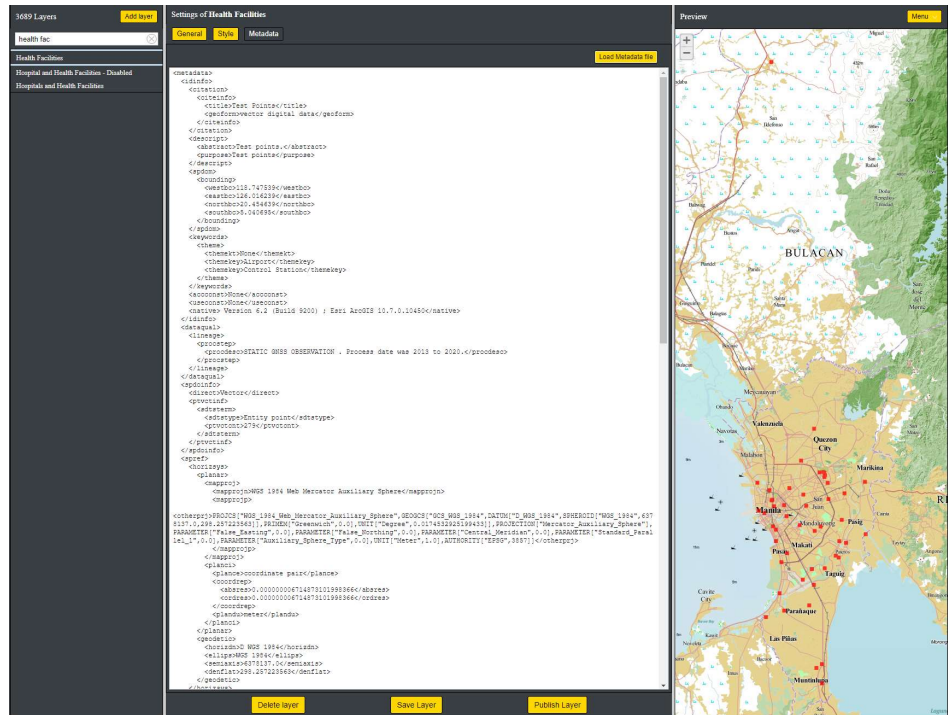
4.9.2 Click the **Load Metadata** button.



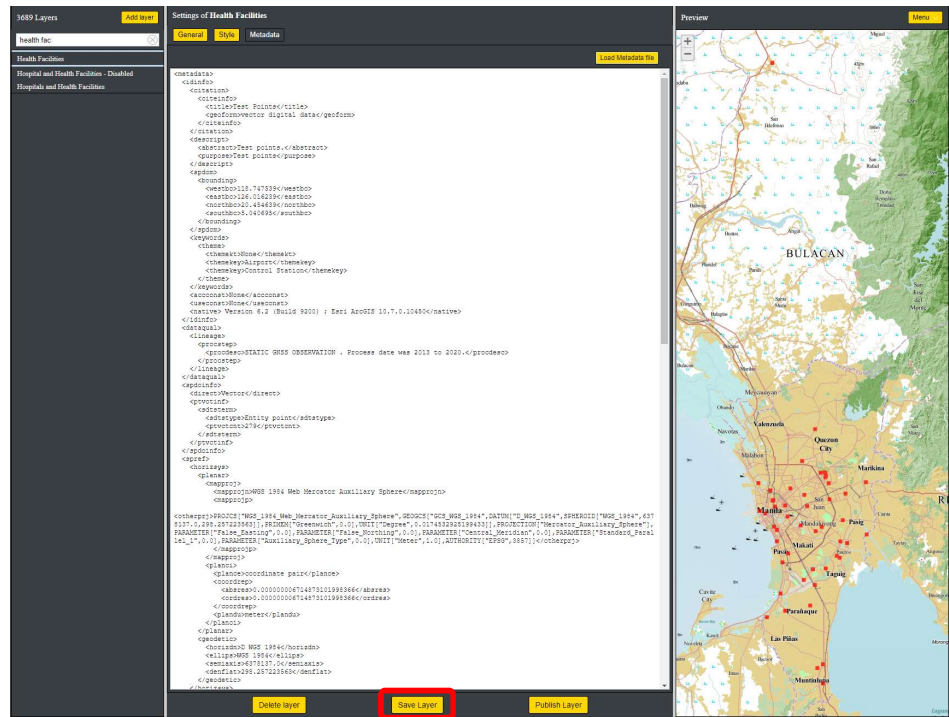
4.9.3 The **Open** file dialog will be displayed. Select the metadata file (xml format) and click the **Open** button.



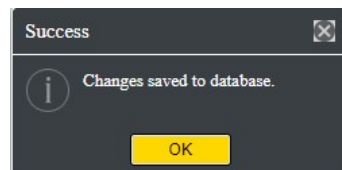
4.9.4 The metadata will be loaded in the metadata textbox.



4.9.5 Click the **Save Layer** button.

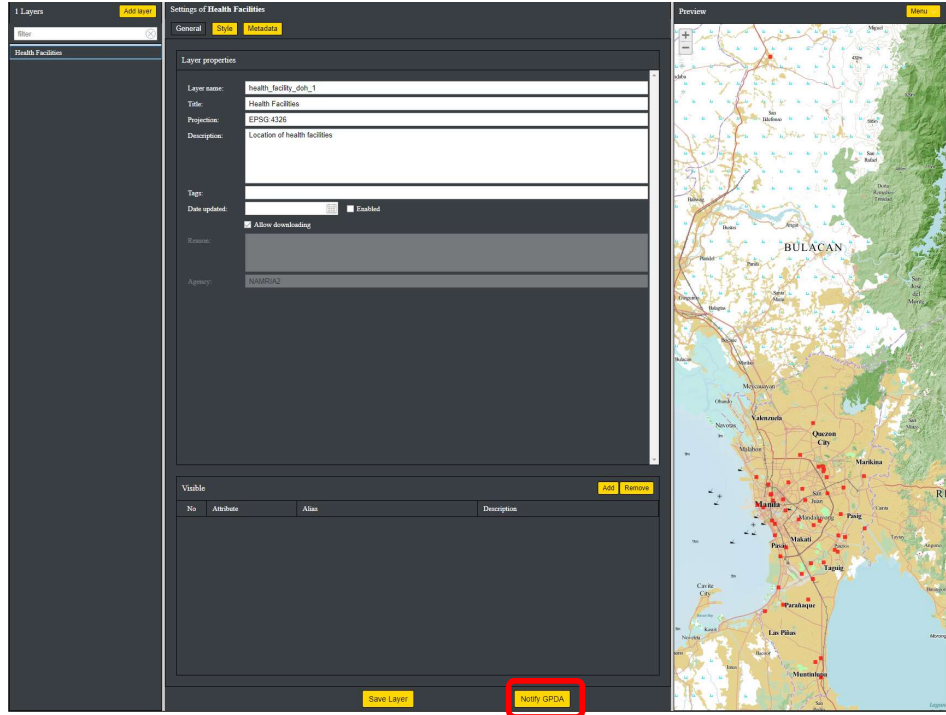


4.9.6 Changes to the metadata will be saved and a “Changes saved to database” message will appear.



4.10 HOW TO PUBLISH A LAYER

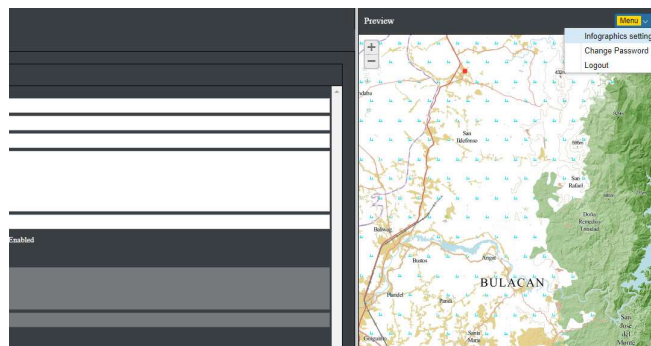
4.10.1 Select / Load a layer from the **Layer Panel**. Click the **Notify GPDA** button.



This will send a notification email to the GPDA that the selected layer is ready for publishing. The GPDA will perform visual, properties, style, and metadata check. If it passes the GPDA verification, the layer will be then published to the production server.

4.11 HOW TO ACCESS INFOGRAPHICS SETTINGS

4.11.1 In the Map Builder screen, click **Menu** → **Infographics Settings** (accessible only to the GPDA)



4.11.2 The Infographics page will be displayed.

Layer Name	Title	SQL Statement	Configuration	Color (RGB)
egdmis_landcover2015_huzon_20210712	2015 Land Cover - Luzon	Select agg12, hectare, hectare/sum(hectare) OVE...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
egdmis_landcover2015_mindanao_20210712	2015 Land Cover - Mindanao	Select agg12, hectare, hectare/sum(hectare) OVE...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
egdmis_landcover2015_palawan_20210712_v1	2015 Land Cover - Palawan	Select agg12, hectare, hectare/sum(hectare) OVE...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
egdmis_landcover2015_visayas_20210712	2015 Land Cover - Visayas	Select agg12, hectare, hectare/sum(hectare) OVE...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_barmm_2020	2020 Land Cover Map of BARMM	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_car_2020	2020 Land Cover Map of CAR	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_ncr_2020	2020 Land Cover Map of NCR	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_palawan_2020	2020 Land Cover Map of Palawan	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r1_2020	2020 Land Cover Map of Region 1	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r10_2020	2020 Land Cover Map of Region 10	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r11_2020	2020 Land Cover Map of Region 11	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r12_2020_2	2020 Land Cover Map of Region 12	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r13_2020	2020 Land Cover Map of Region 13	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r2_2020_2	2020 Land Cover Map of Region 2	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r3_2020	2020 Land Cover Map of Region 3	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r4_2020	2020 Land Cover Map of Region 4	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r4A_2020	2020 Land Cover Map of Region 4A	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r5_2020	2020 Land Cover Map of Region 5	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r6_2020_2	2020 Land Cover Map of Region 6	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r7_2020	2020 Land Cover Map of Region 7	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r8_2020	2020 Land Cover Map of Region 8	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r8A_2020	2020 Land Cover Map of Region 8A	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r9_2020	2020 Land Cover Map of Region 9	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
land_cover_map_r9_2020	2020 Land Cover Map of Region 9	Select class_name, area_ha, area_ha/sum(area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
slab_landcover	Land Cover (2010)	Select agg14, hectare, hectare/sum(hectare) OVE...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
msi_2010_mun_5hgp_wbmsrcator	Municipal Population (2010)	SELECT male, female, total, mun_name FROM...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
msi_2015	Municipal Population (2015)	SELECT male, female, total, mun_name FROM...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
reg_pop2015	Regional Population (2015)	SELECT male, female, total, reg_name FROM...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
reg_pop2015	Regional Population (2015)	SELECT male, female, total, reg_name FROM...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Cloud Forest", "code": "0016300"]
dphc_roadpavement_20201106	Road (Pavement and Surface Type)	Select surface, ty, shape, leng, shape_leng/width...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "Asphalt", "code": "0118190"]
slp_aha	Slope Map of Aha	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_aguian_dtl_south	Slope Map of Aguian dtl South	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_aguian_dtl_nor	Slope Map of Aguian dtl Nor	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_ahoy	Slope Map of Ahoy	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_atsipico	Slope Map of Atsipico	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_ayeyato	Slope Map of Ayeyato	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_bacayan	Slope Map of Bacayan	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_batman	Slope Map of Batman	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_batman	Slope Map of Batman	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]
slp_bayata	Slope Map of Bayata	Select slope_code, slope_desc, area_ha, area_ha...	{ "label": "Area", "type": "sum", "chartHeight": ... }	["prop": "A", "code": "0000000"]

4.12 HOW TO ADD INFOGRAPHICS TO A LAYER

4.12.1 In the infographics page, click the Add button.

Layer Name	Title	SQL Statement
egdmis_landcover2015_huzon_20210712	2015 Land Cover - Luzon	Select agg12, hectare, hectare/sum(hectare) OVE...
egdmis_landcover2015_mindanao_20210712	2015 Land Cover - Mindanao	Select agg12, hectare, hectare/sum(hectare) OVE...
egdmis_landcover2015_palawan_20210712_v1	2015 Land Cover - Palawan	Select agg12, hectare, hectare/sum(hectare) OVE...
egdmis_landcover2015_visayas_20210712	2015 Land Cover - Visayas	Select agg12, hectare, hectare/sum(hectare) OVE...
land_cover_map_barmm_2020	2020 Land Cover Map of BARMM	Select class_name, area_ha, area_ha/sum(area_ha...
land_cover_map_car_2020	2020 Land Cover Map of CAR	Select class_name, area_ha, area_ha/sum(area_ha...
land_cover_map_ncr_2020	2020 Land Cover Map of NCR	Select class_name, area_ha, area_ha/sum(area_ha...

4.12.2 The Add record window will appear.

Add record

Select Layer:

SQL Statement:

Configuration:

Color:

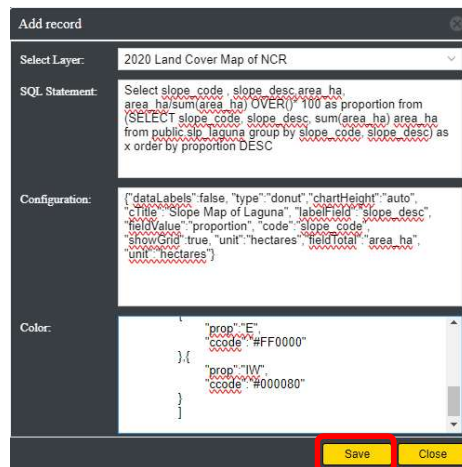
Layer – Layer to be used

SQL Statement – SQL statement to be executed to generate the infographics

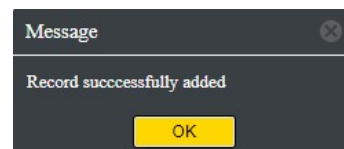
Configuration – this is the settings that will dictate the content, label, and type of infographics (in JSON format)

Color - Colors to be used in the infographics legend (in JSON format)

4.12.3 Input all the required fields and then click the **Save** button.

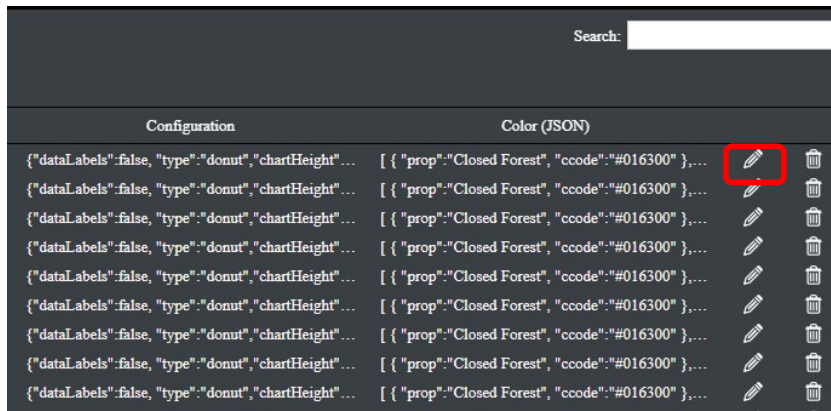


4.12.4 The record will be added and a “Record successfully added” message will appear.

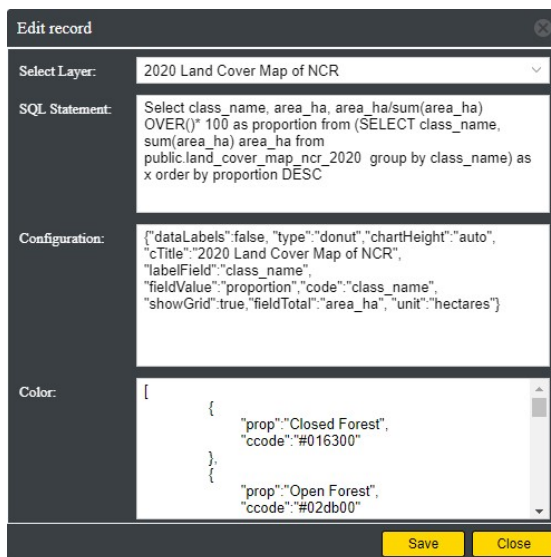


4.13 HOW TO EDIT A LAYER'S INFOGRAPHICS

4.13.1 Click the **Edit** (pencil icon) button.

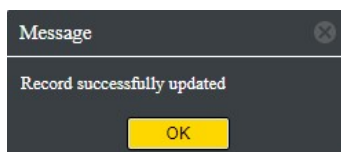


4.13.2 The **Edit record** window will appear.



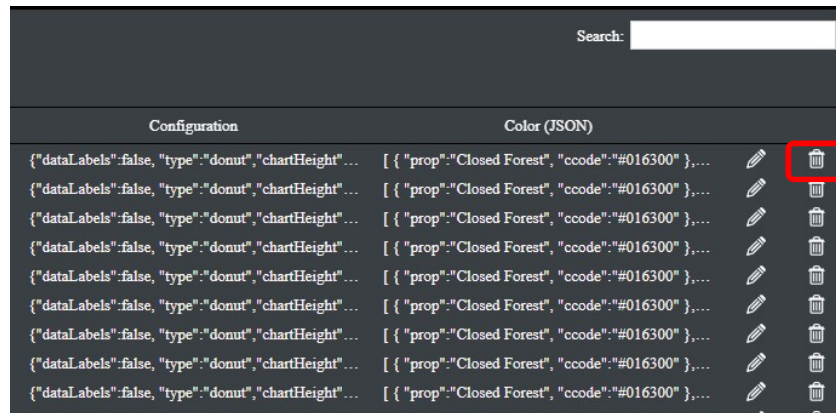
4.13.3 Make the necessary changes and click the **Save** button.

4.13.4 Changes will be saved and *“Record successfully updated”* message will appear.

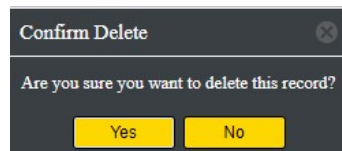


4.14 HOW TO DELETE A LAYER'S INFOGRAPHICS

4.14.1 Click the **Delete** (trash icon) button.



4.14.2 The delete confirmation window will appear.



4.14.3 Click **Yes** to permanently delete the record, otherwise, click **No**.