

User Manual for CA Water Board's Tribal Water Data Map

CA Water Board's Office of Information Management and Analysis (OIMA)

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Welcome!

This is an online User Manual for the [California Water Board's Tribal Water Data Map](#) (Map), written by the California State Water Resources Control Board's ([State Water Board](#)) Office of Information Management and Analysis ([OIMA](#)).

The purpose of the Map is to increase awareness of and access to the Water Board's water data resources that intersect with Tribal matters and needs. The interactive Map includes curated data layers that have been requested by tribal partners and that may be useful for California Native American Tribes (tribes) doing environmental or water related work.

The purpose of this User Manual is to provide guidance and context so it's easier for all audiences to use the Map. Content in this User Manual includes curated information that has been requested by tribal partners and/or that the development Team thinks may be helpful to reference when using the map.

To view the status of ongoing Map and User Manual development, visit the [Project Management Board](#).

This [Quarto book](#) is an open, living, and continuously iterating resource. If you have suggestions for additions or revisions you think should be incorporated into this book, please follow the guidance provided in the [Contributing](#) chapter.

1 About OIMA

1.1 Overview

The California State Water Resources Control Board's ([State Water Board](#)) Office of Information Management and Analysis ([OIMA](#)), serves as an advocate for data management, a bridge between data collectors and users, and provides transparency of the Water Board's information management infrastructure.

OIMA's goal is to collaborate monitoring efforts, accurately analyze data, make our data easily accessible, and create visualizations and reports that make data understandable across all audiences.

1.2 Tribal Water Data Initiatives

OIMA is committed to [advancing equity](#), inclusion, and belonging in our work, our office, and at the Water Boards. Meaningful engagement and partnership with California Native American Tribes (tribes) is fundamental to this work.

OIMA has begun to work with Tribal partners on a series of water data initiatives – including the [Tribal Water Data Map](#) and this [User Manual](#) – to build relationships and work together to better understand, streamline, and improve the interactions between Water Board data systems and those of our Tribal government partners.

Visit our [Tribal Water Data Initiatives](#) website for information on other initiatives.

2 Map Guide

This guide serves to provide greater detail about functions within the Tribal Water Data Map.

2.1 Opening the Web Map

The [link](#) will take you to the main Portal of the map where you will find basic information like:

1. Map viewing options:

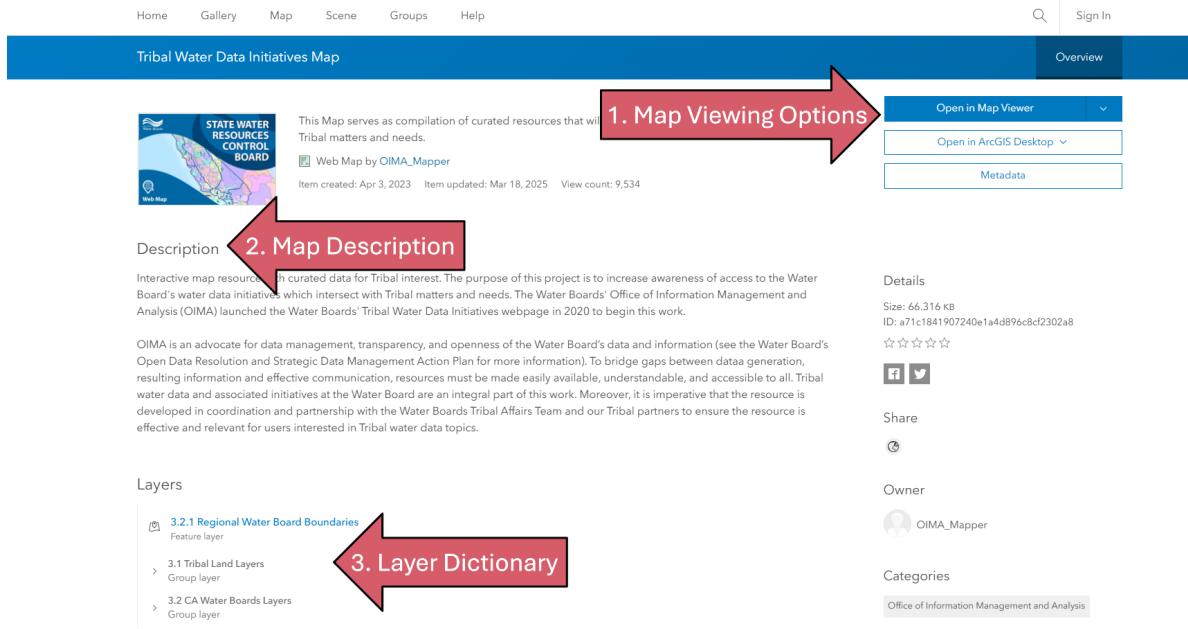
- If you have ArcGIS Desktop installed on the computer you are working on, you can opt to open the map directly on the App, otherwise just **click on “Open Map Viewer”** to open it.

2. Map description:

- A description of the map that highlights the purpose and goals.

3. Layer dictionary:

- You can click on each of the layers and find out more detailed information, including the source, a description of the source and the data, and the type of layer.
- If you only want to visualize one specific layer, you can click on the layer name in the Layer Dictionary and choose “Visualization” in the top right corner



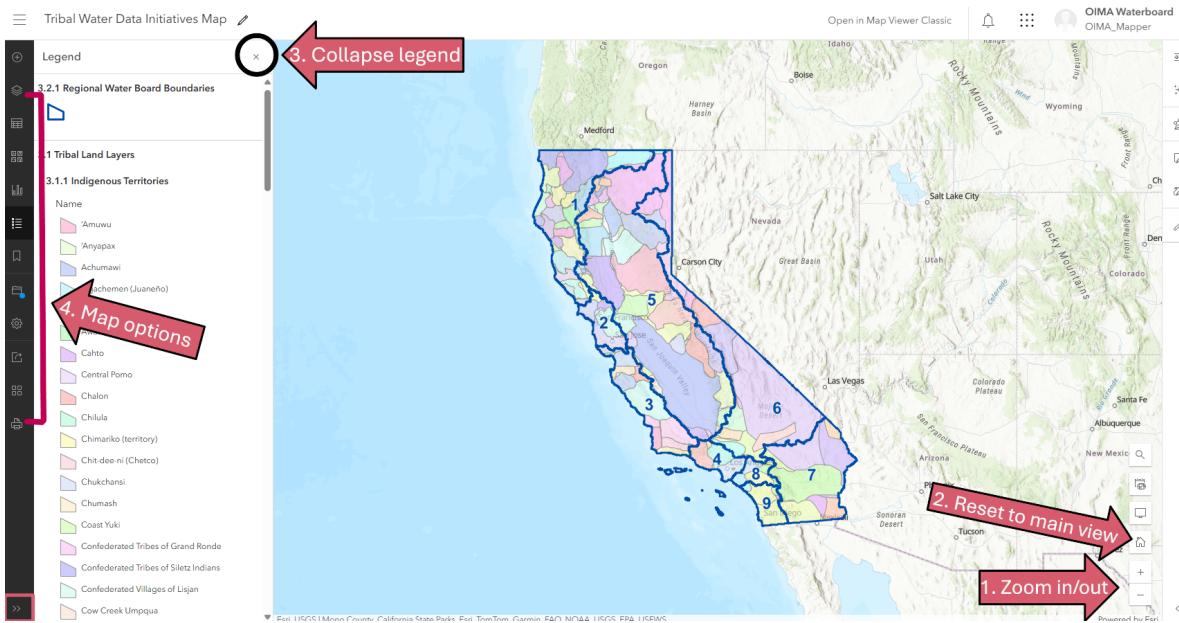
2.2 Navigating the Map

After you have clicked on ‘Open in Map Viewer’, the web map will open with two default layers being displayed: Regional Board Boundaries and Indigenous Territories.

To navigate the map:

1. To zoom you can use the **Zoom in** and **Zoom out** buttons on the bottom right of map, the mouse and wheel button, or press Shift + Plus Sign (zoom in) and Shift + Minus Sign (zoom out) on the keyboard. To zoom in, you can also press the Shift key while dragging a box on the map.
2. To go back to the main view, press the **house icon**.
3. **Collapse the legend** pane by clicking on the arrow on the upper-right corner of the menu.
4. Scroll through the **map options** in the sidebar on the left
 - Map options include Layers, Tables and Charts, viewing the BaseMap, Viewing the Map Properties, and more.
 - To expand the map options to see icons and words, click on the ‘»’ arrows in the bottom lefthand corner (see Navigating Legend and Layers section below for picture).

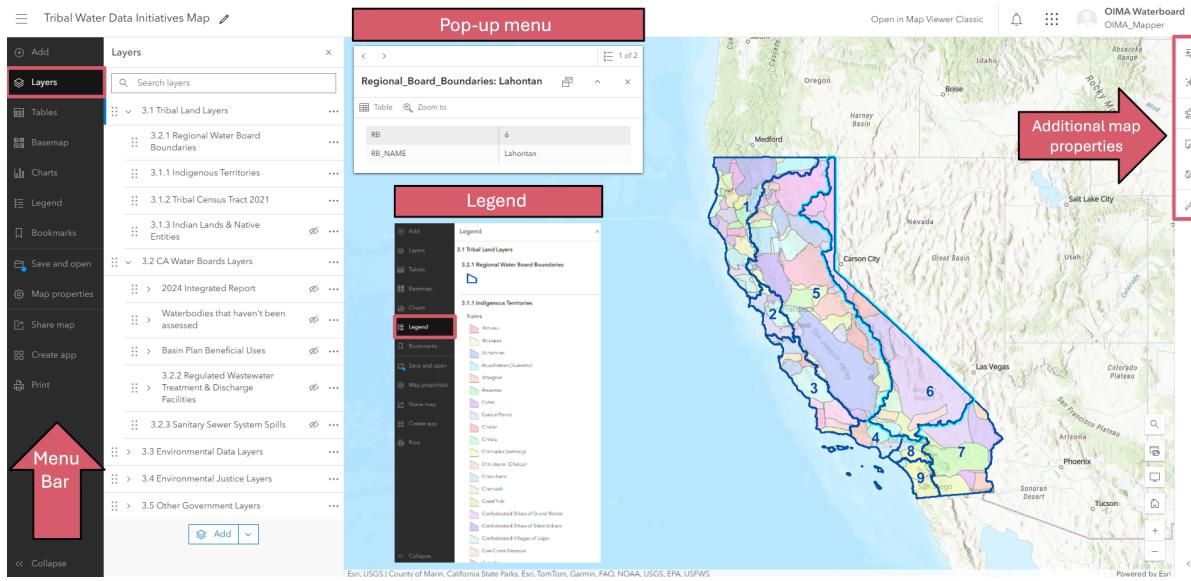
- To pan the map, use the mouse or the arrow keys on your keyboard.
- If you're using a Mac with OS X 10.6 or later, you can use multitouch gestures by dragging two fingers to pan and zoom the map. The default behavior is to pan. To zoom in or out, press Shift while dragging two fingers toward you to zoom in or dragging two fingers away from you to zoom out.



2.3 Navigating Legend and Layers

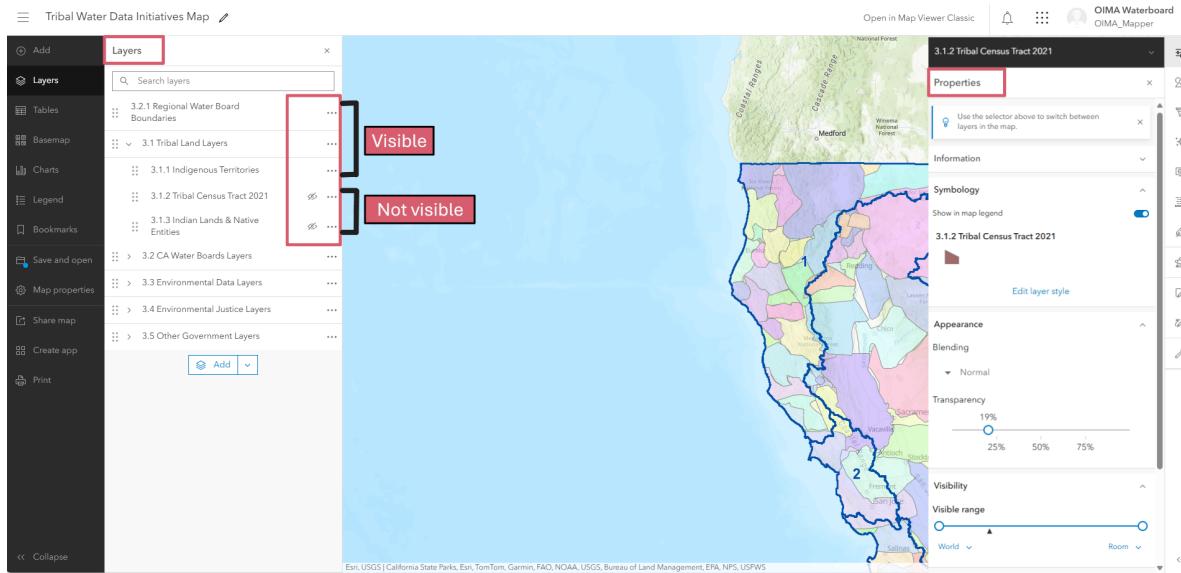
- To see information on the map, click on any of the items in the **menu bar** on the left side of the screen. For example, to view other layers you can click on the **Layers** icon, which is displayed directly to the right of the menu bar.
- Also in the menu bar, is the **legend** (shown in the inset below the pop-up menu). The legend gives more details about each layer that is currently selected. For example, the blue outlines and numbers are the Regional Board Boundaries and Designations, and the different Indigenous Territories are color coded and defined on that menu.
- You can also click on a map area of California to find out what Regional Board, or Indigenous Territory is in a specific location. The information will be shown in a **pop-up menu**.
 - In this example, the right border of California was clicked and a pop-up showed that the area belongs to Region 6 of the Regional Boards.

- Additional map properties for exploration and analysis can be found on the panel on the right side of the screen for map properties and effects, to add a sketch, or to use measurement tools.



2.4 Displaying/Removing View of Layers

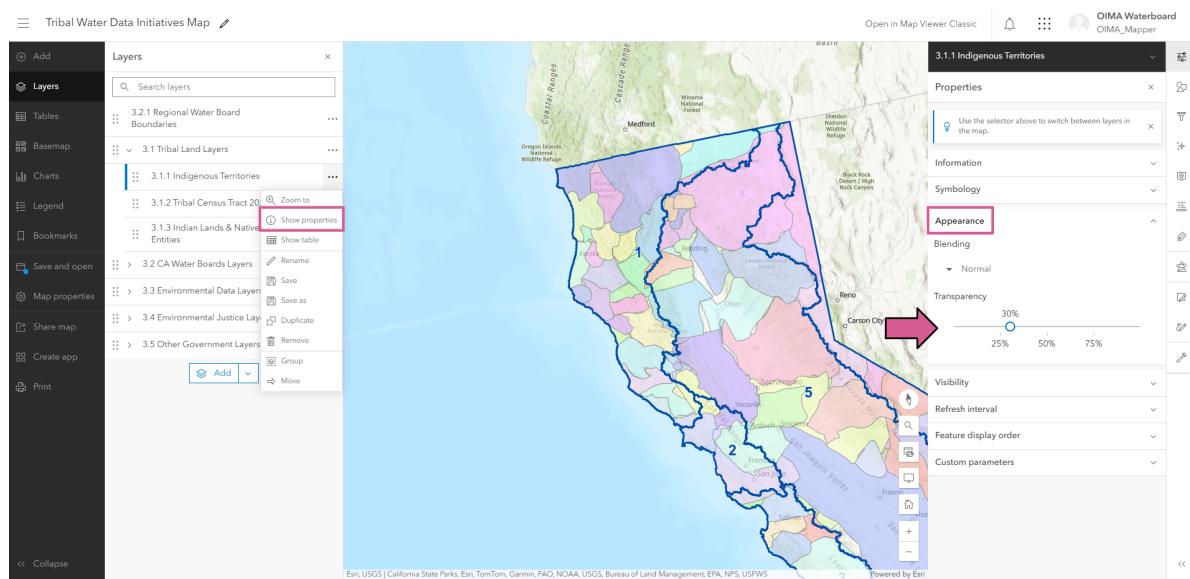
- On the **Menu Bar**, click **Layers**. All the layers of the map will be listed (but not yet displayed). The layer categories (3.1, 3.2, 3.3, 3.4, 3.5, and 3.6) are coordinated with the section in the [Layer Guide](#) that outlines each layer and its important/relevant information.
- Upon opening the map, only Regional Boards Boundaries and Indigenous Territories will be displayed. You can confirm this by looking at the layer name and seeing an eye icon (you may need to hover over the layer to see the eye icon). If the eye icon has a slash through it, that means the layer is not currently visible on the map. You need to click on the eye icon specifically to display/remove the layer.
 - If you just click the layer name and not the eye icon, you will pull up the **properties** information about that layer on the right side of the map (shown on the right hand side for Tribal Census Tract 2021 layer).



2.5 Adjusting Layer Transparency

To change the transparency of the layers:

- Select the layer of which you'd like to change the transparency:
 - You can either click on the three dots next to the layer name and select “Show properties” or
 - You can click on the layer name and the properties panel will pop up on the right side of the screen.
- Scroll down to **Appearance**
- Select **Transparency**, and slide the button to the desired transparency
 - The more transparency, the less visible the layer will be.



3 Layer Guide

This guide serves to provide greater detail about each layer included in the Tribal Water Data Map.

Note on default map settings

When opening the map in Map Viewer, the **default** layers that will be displayed include all 7 (seven) of the Bureau of Indian Affairs layers and the California Regional Boards Boundaries. To see more details about these layers, read below or click on the layer in the [Layer Dictionary](#) (see instructions on [Map Guide](#) page)

3.1 Tribal Land Layers

3.1.1 Bureau of Indian Affairs (BIA)

Layer displaying areas of XXXX .

Source: [Bureau of Indian Affairs](#), from the [Pacific Regional Office \(PRO\)](#)

Data Update Frequency: As needed

Last Updated: June 29th, 2021, added to Tribal Water Data Map in May 2025

Contact: [BIA](#)

BIA's mission is to "enhance the quality of life, promote economic opportunities, and to carry out the federal responsibilities entrusted to us to protect and improve the trust assets of American Indians and Alaska Natives. We accomplish this by directly empowering Tribal governments through self-governance agreements."

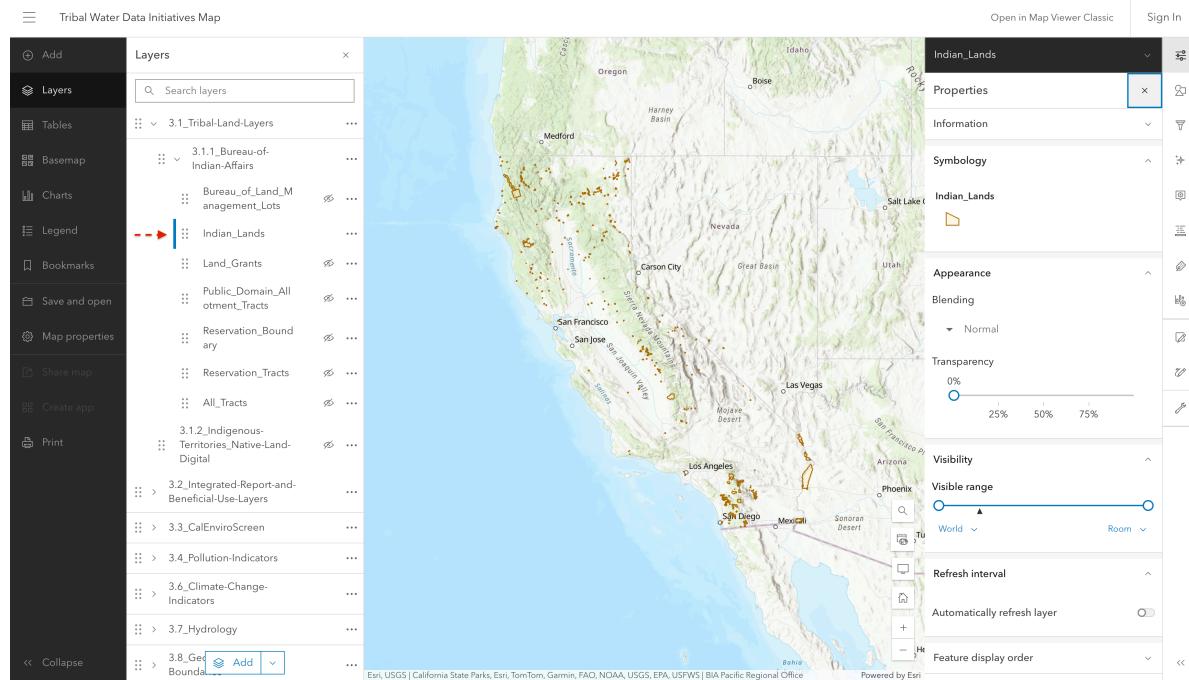
3.1.1.1 Bureau_of_Land_Management_Lots

This sublayers includes data about Bureau of Land Management (BLM) lands that are managed within the boundaries of BIA lands.

screenshot here - layer not appearing

3.1.1.2 Indian_Lands

“The term “Indian land” means: (A) Any land located within the boundaries of an Indian reservation, pueblo, or rancheria; (B) Any land not located within the boundaries of an Indian reservation, pueblo, or rancheria, the title to which is held: (i) In trust by the United States for the benefit of an Indian tribe or an individual Indian; (ii) By an Indian tribe or an individual Indian, subject to restriction against alienation under laws of the United States Definition: Indian land from 25 USC § 3501(2) | LII / Legal Information Institute”, [BIA Tract Viewer - Catalog](#)



3.1.1.3 Land_Grants

screenshot here

3.1.1.4 Public_Domain_Allotment_Tracts

These are parcels of Tribal lands, typically up to 160 acres, that were divided up and “allotted” to individual Tribal members, see: [Allotment Act of 1887](#).

screenshot here

3.1.1.5 Reservation_Boundary

This sublayer refers to the outer limits or perimeter of federal American Indian reservations. These boundaries are established by treaties, agreements, executive orders, or other federal actions and define the land reserved for a Tribe or Tribes.

3.1.1.6 Reservation_Tracts

screenshot here

3.1.1.7 All_Tracts

screenshot here

3.1.2 Indigenous Territories

Layer displaying historic Indigenous Territories within California.

Source: [Water Boards ArcGIS Portal](#), data used in this layer was accessed and downloaded from [native-land.ca](#)

Data Update Frequency: As needed

Last Updated: May 2024

Contact: [Native Land Digital](#)

[Native Land Digital](#) “strives to create and foster conversations about the history of colonialism, Indigenous ways of knowing, and settler-Indigenous relations, through educational resources such as our map and Territory Acknowledgement Guide. We strive to go beyond old ways of talking about Indigenous people and to develop a platform where Indigenous communities can represent themselves and their histories on their own terms. In doing so, Native Land Digital creates spaces where non-Indigenous people can be invited and challenged to learn more about the lands they inhabit, the history of those lands, and how to actively be part of a better future going forward together.”

3.1.3 Other Sources of American Indian and Tribal Land

3.1.3.1 Tribal Census Tract 2021

Layer showing Tribal areas identified by the U.S. Census Bureau. You can zoom in further to see specific areas more closely.

Source: [U.S. Census Bureau, TIGER/Line Shapefiles](#)

Data Update Frequency: Every 10 years

Last updated: 2024

Contact: [U.S Census Bureau](#)

3.1.3.2 Tribal and Native Entities

Layer showing American Indians Reservations/Federally Recognized Tribal Entities.

Source: [California Governor's Office of Emergency Services \(Cal OES\)](#)

Data Update Frequency: As needed

Last updated: 2019

Contact: [Cal OES](#)

The American Indians Reservations/Federally Recognized Tribal Entities data set depicts feature location, selected demographics and other associated data for the 561 Federally Recognized Tribal entities in the contiguous U.S. and Alaska. Categories included are: American Indian Reservations (AIR), Federally Recognized Tribal Entities (FRTE) and Alaska Native Villages (ANV).

3.2 Integrated Report and Beneficial Use Layers

3.2.1 2024 Integrated Report

! Important

What is the Integrated Report?

Waterbodies assessed in the Integrated Report (IR) include surface waterbodies, such as rivers, lakes, and beaches.

Assessed waterbodies are placed into one of five Integrated Report Condition Categories based on the waterbody's ability to support beneficial use(s).