

## QGIS dozer line how-to.txt

The following will use the Dixie Fire package available as of 8/22/2021 as an example.

### 1. Download data package

In web browser, go to (without the quotes)

"[https://ftp.wildfire.gov/public/incident\\_specific\\_data/calif\\_n/!CALFIRE/!2021\\_Incidents/CA-BTU-009205\\_Dixie/GIS/IncidentData/20210822/](https://ftp.wildfire.gov/public/incident_specific_data/calif_n/!CALFIRE/!2021_Incidents/CA-BTU-009205_Dixie/GIS/IncidentData/20210822/)"

Download file "20210821\_2022\_Dixie\_CA-BTU-009205\_Master\_ArcPro\_2\_7.gdb.zip"

Note the file is date stamped a day earlier than the folder it is in.

### 2. Extract data package.

Right-click file you downloaded, choose "extract all...", click on "Extract".

A new sub-folder will be created in the same folder the zip file was located with the same name, "20210821\_2022\_Dixie\_CA-BTU-009205\_Master\_ArcPro\_2\_7.gdb"

### 3. Download and install QGIS from QGIS.ORG.

### 4. Open QGIS Desktop app.

Click Project > New Project (or press CTRL-N)

### 5. Add data to QGIS.

in QGIS, drag and drop the

"20210821\_2022\_Dixie\_CA-BTU-009205\_Master\_ArcPro\_2\_7.gdb" folder into the larger empty window inside QGIS.

A "Select Vector Layers to Add..." window will pop up. Everything is selected by default.

To get dozer lines, click on the layer named "Event\_Line". Everything else will become unselected.

Click on OK.

You should now see lots of lines, over 3,000 of various lengths.

These lines represent finished dozer lines, planned dozer lines, contained lines, completed hand lines, planned hand lines, retardant drops, etc.

### 6. Filter data to only show dozer lines.

In lower left window, right-click on the layer, should only be one listed for this example, and choose "Filter..."

Now you can either:

Double-click "Feature Category" to add it to the Filter Expression at the bottom.

Double-click the equal (=) sign to add it to the Filter Expression.

Click "FeatureCategory" again and click on the All button in the Values area on the right.

A list of values used in this data set will show.

Double-click "Completed Dozer Lines".

Click OK.

Or just type the filter expression:

In the box for Provider Specific Filter Expression, type (with quotes):

"FeatureCategory" = 'Completed Dozer Line'

Click OK.

### 7. Export the filtered results.

Right-click the layer under Layers.

Choose "Export" > "Save Features As..."

Make sure Format is set to "Keyhole Markup Language (KML)."

Next to File name, Click on the 3 dots to choose a folder to save the file and type a file name.

At the bottom, check the "Add saved file to map" if you want to see the filtered results as its own layer.

Click OK.

Next a heads up. Working with this much data made my browser very sluggish and sometimes say the page was not responding.

The page even crashed occasionally.

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### 8. Import the results into CalTopo.

Make an account in CalTopo if you haven't already and log into it within caltopo page.

Click on "Import" under "Map Objects" at upper left.

Click on "Choose Files".

Browse to the KML file you exported from QGIS, select it and choose "Open". It may take a minute or more before the next "Import Data" window appears.

Click on Import. Expect some sort of delay.

Give the map a name next to "Map Name". Select whatever sharing option you want.

Click "Save".

Your dozer lines will appear in CalTopo as thin red lines by default.

### 9. Change how lines appear in CalTopo.

At the left where it says Lines and Polygons, scroll all the way to the end of the list.

Click on Bulk Ops. wait for next window to appear, can take a while.

Click on the first line then scroll down to the end and hold shift while clicking on the last line.

Be really patient while it chews on what you told it to do (select every line in the list).

When it's done it will highlight every row and say xxxx rows selected. Mine said 2,351 rows.

At the bottom click on "Change Attributes".

Click on "Line weight and change it. I used 2.

Click on Color and change it. I used purple because it stands out against the black and red lines on many maps.

Click on Style.

Now pay attention!!!

If you choose the typical xxxxx used for dozer lines, CalTopo may run really slow as it draws all those X's when you scroll or zoom the map.

Plus those X's really cover up other details on the map.

I chose a solid line because CalTopo can draw that a lot faster. Along with the thicker purple it shows really well and doesn't cover up other stuff.

But feel free to play with the options :)

Click on "Update".

The change is slow. You can see the lines change from thin red to whatever you chose one by one on the map.