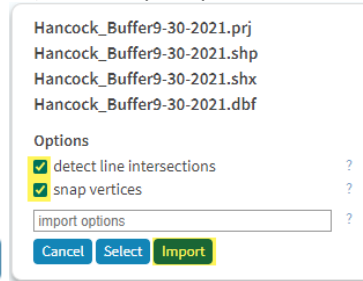


Mapshaper Tools

[Mapshaper](https://mapshaper.org) is a free, open-source editor that can convert geospatial files, edit attribute data, filter, and dissolve features, simplify boundaries to make files smaller, and much more. This document contains a few Mapshaper techniques that can be used to prepare your data for upload to SAE. Keep in mind that these techniques will not fix 100% of data issues especially if your data has lots of geometry errors.

Cleaning & Dissolving:

- Go to <https://mapshaper.org/>
- Drag your geoJSON file or shapefiles (.dbf, .prj, .shp, .shx) into Mapshaper.



- Check the box beside “snap vertices” → Click **Import**
- Select **Console** from the menu in the top right-hand corner of the window
 - Run the commands below in order by typing the command name and pressing Enter ↵
Note: Some of these commands remove insignificant holes, etc. which can help make your geometry more efficient, especially if numerous red Intersections markers are displayed.



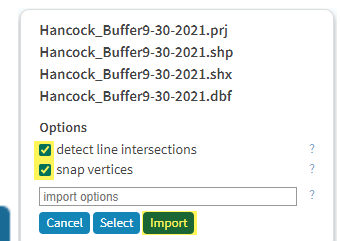
- **clean** - Fixes geometry issues, such as polygon overlaps and gaps
- **dissolve** - Merges features within a layer (If this command returns “Dissolved 1 feature into 1 feature”, skip the *dissolve2* command)
- **dissolve2** - Merges adjacent polygons (repairs overlaps and gaps)

```
Enter mapshaper commands or type "tips" for examples and console help
$ clean
[clean] Removed 54 / 166 slivers using 4+ sqm variable threshold
[clean] Retained 1 of 1 features
$ dissolve
[dissolve] Dissolved 1 feature into 1 feature
```

- **help** - Displays the complete list of map shaper commands

Reprojecting Shapefiles:

- Drag your shapefiles (.dbf, .prj, .shp, .shx) into Mapshaper.



- Check the box beside “detect line Intersections” and “snap vertices” → Click **Import**

- Select **Console**
 - Type: *proj init=shapefile name crs=EPSG:4326*
 - Replace *shapefile name* with the name of your shapefile. DO NOT include the .shp extension
 - ex: MYSA.shp, MYSA.prj, MYSA.dbf have been loaded in mapshaper
 - Type: *proj init=MYSA crs=EPSG:4326*

Exporting Data:

- When you have completed cleaning, reprojecting, etc. you will need to export your data to GeoJSON or Shapefile.
- Select **Export** from the menu in the top right-hand corner of the window
- Select the file format you want to export the data as → Type: *geojson-type=FeatureCollection* → Select **Export**

