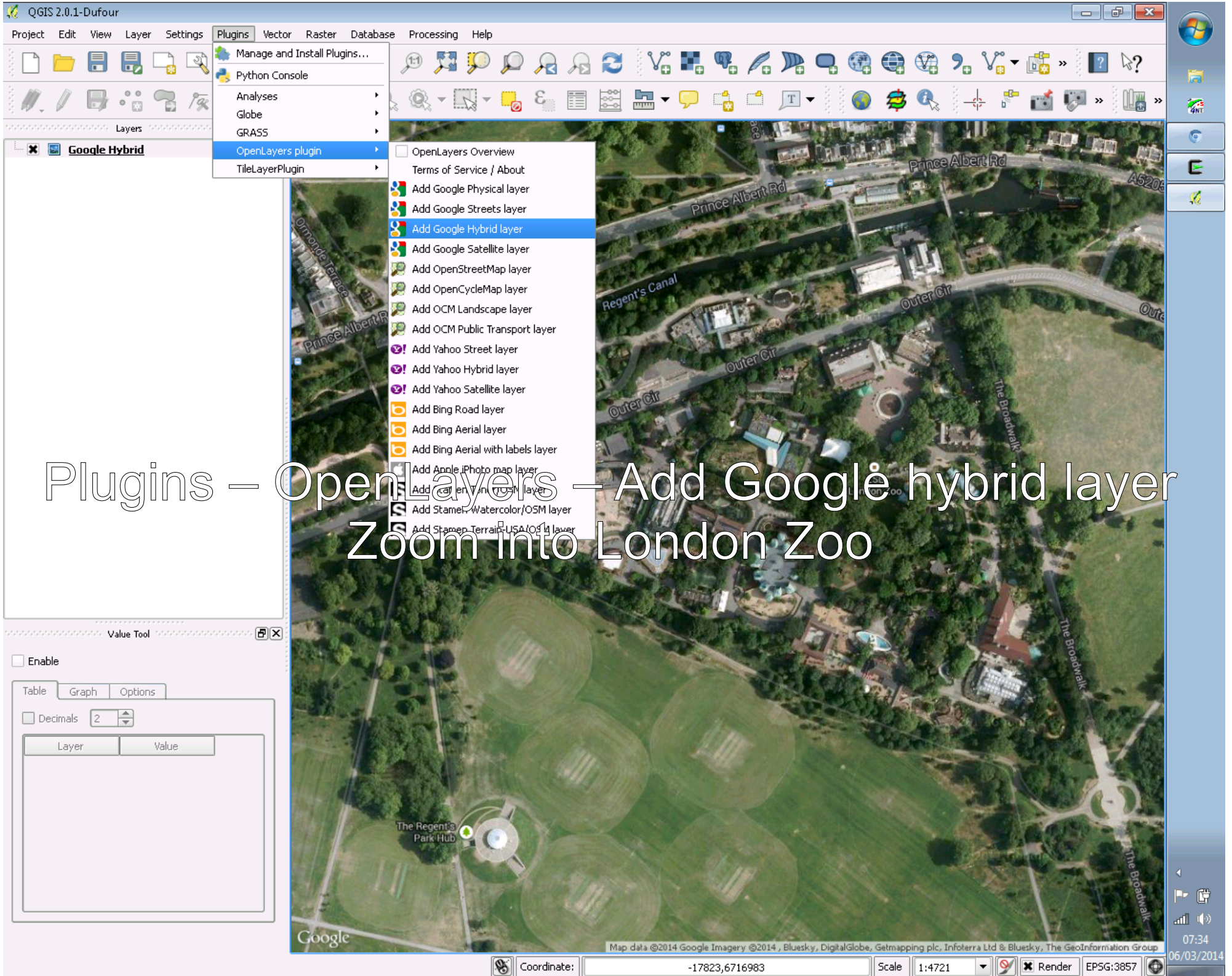
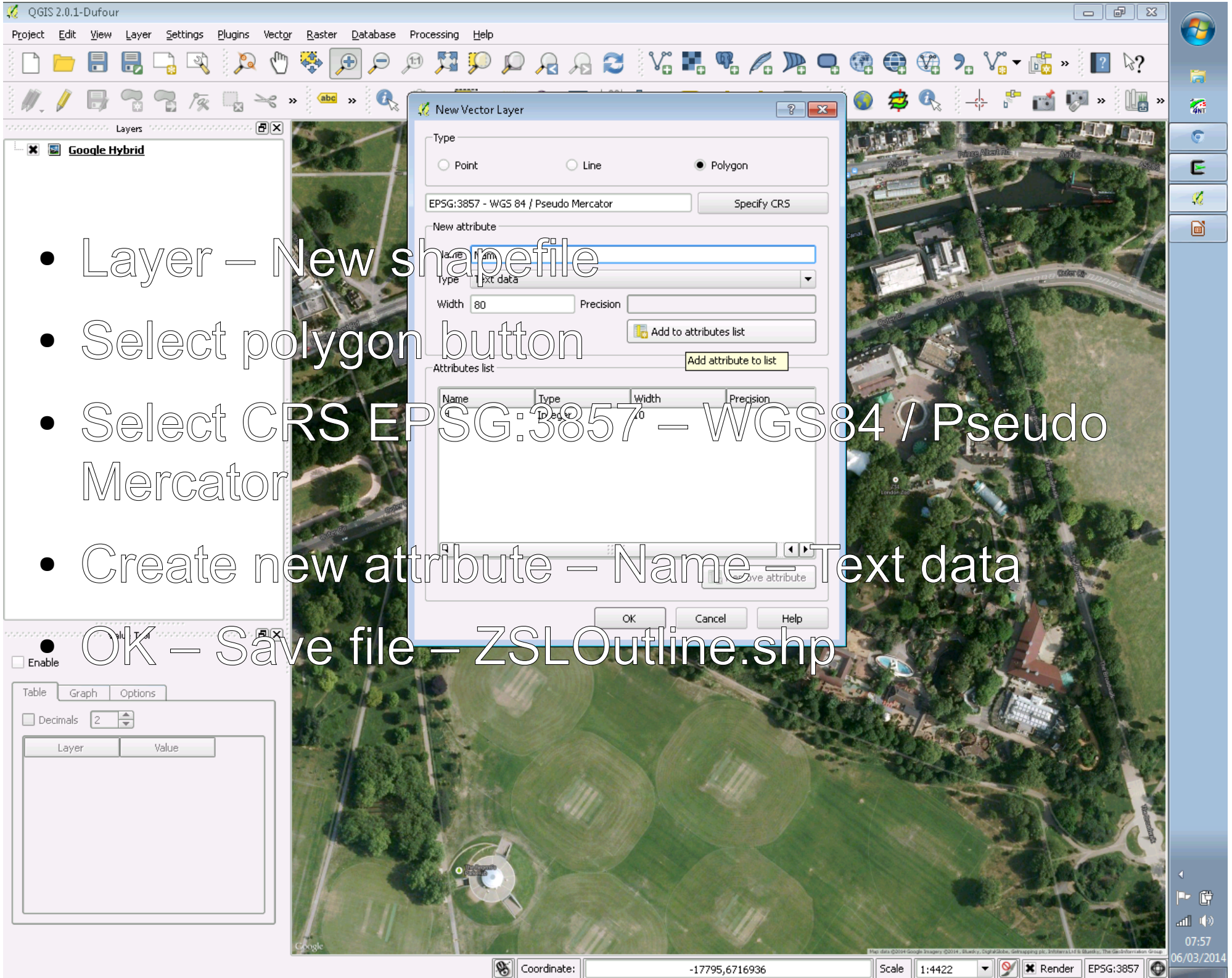
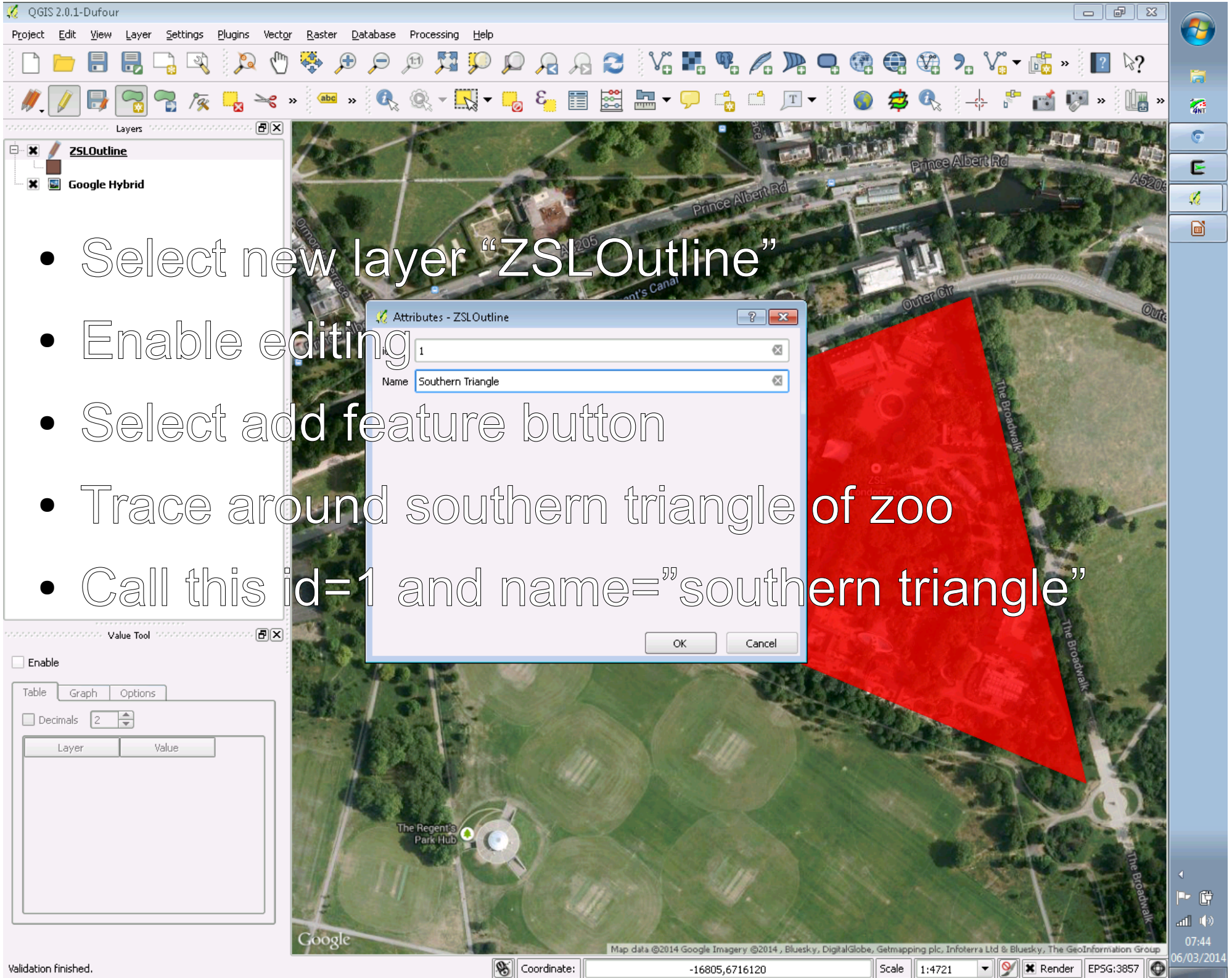


Plugins – OpenLayers – Add Google hybrid layer

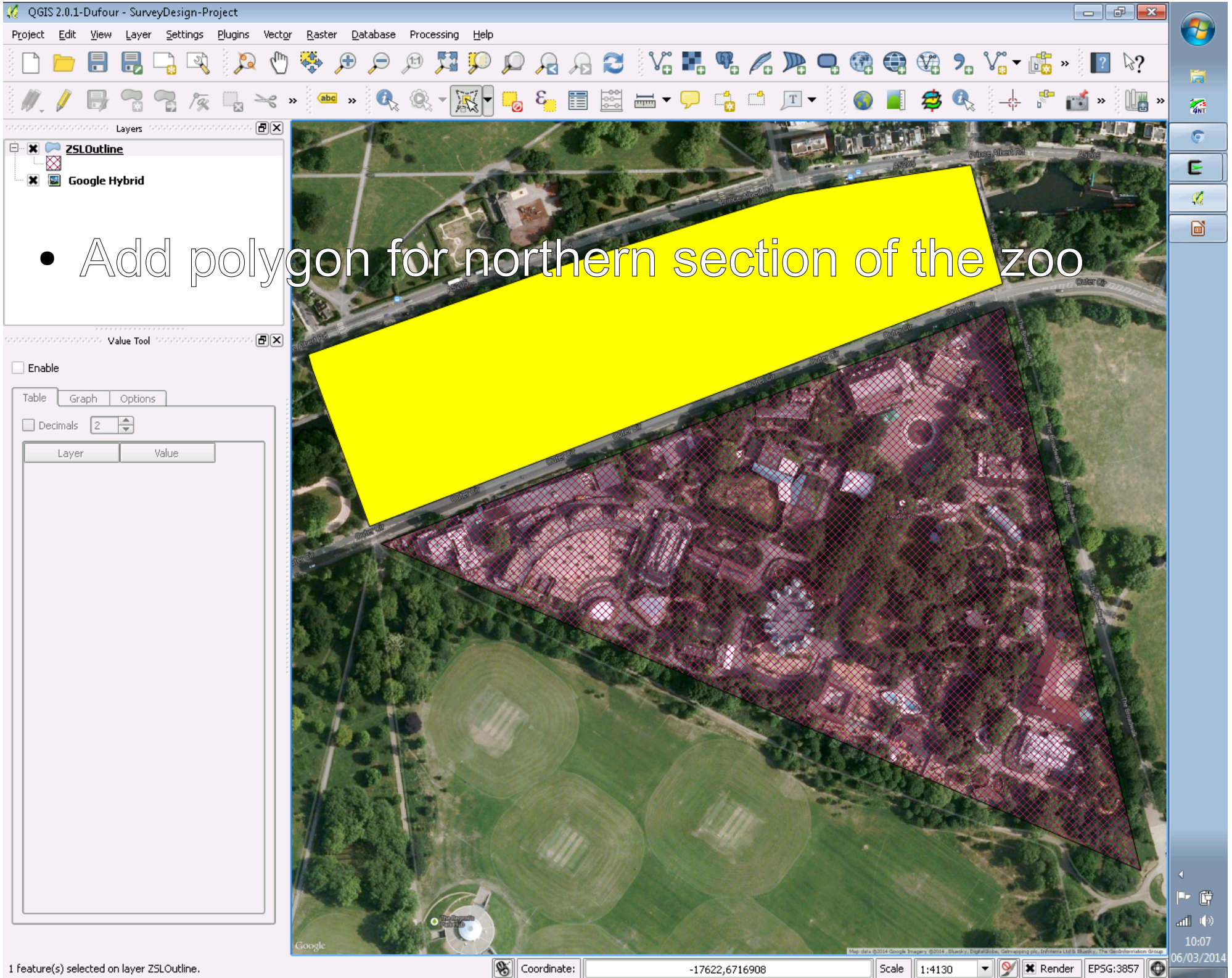
Zoom into London Zoo

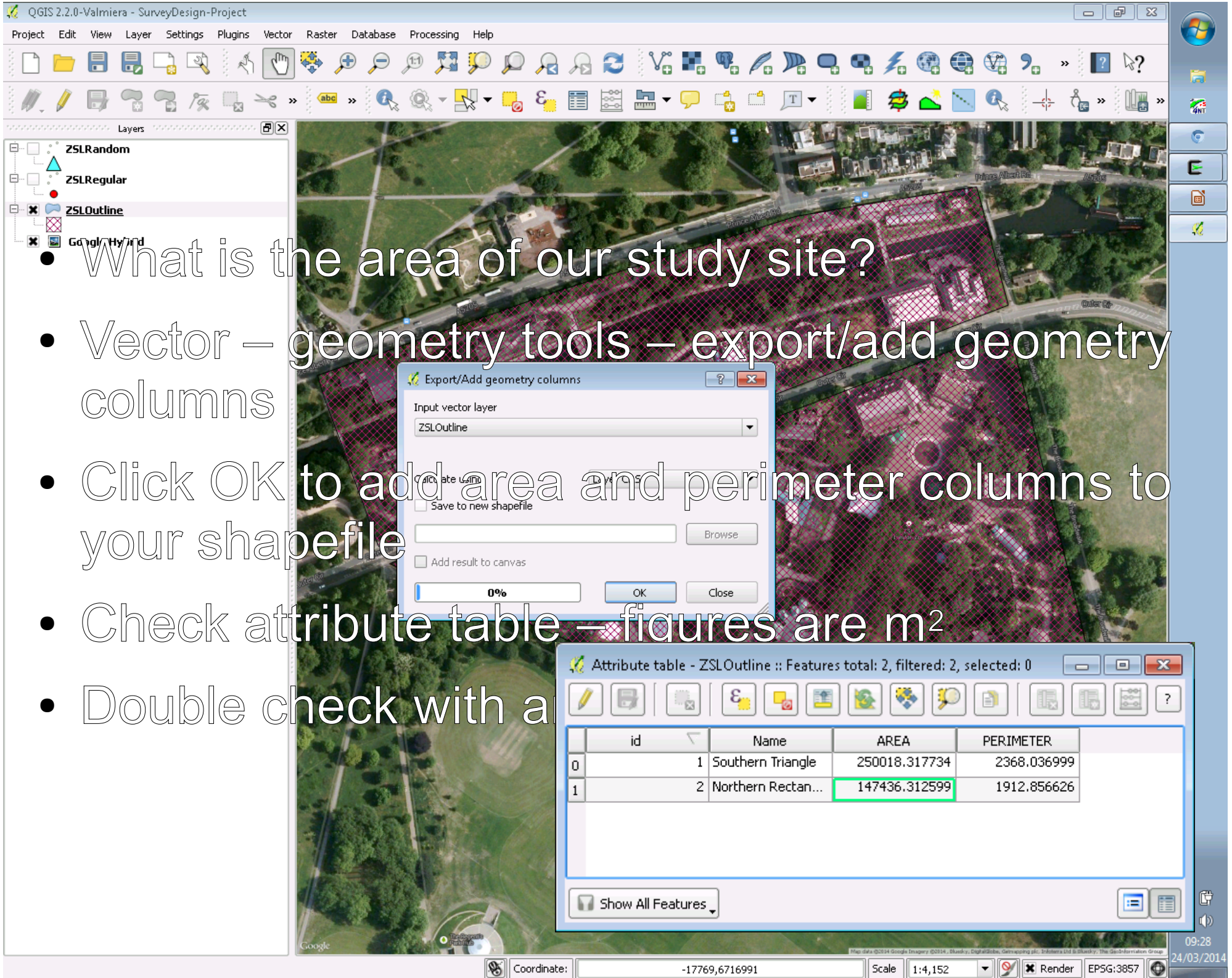


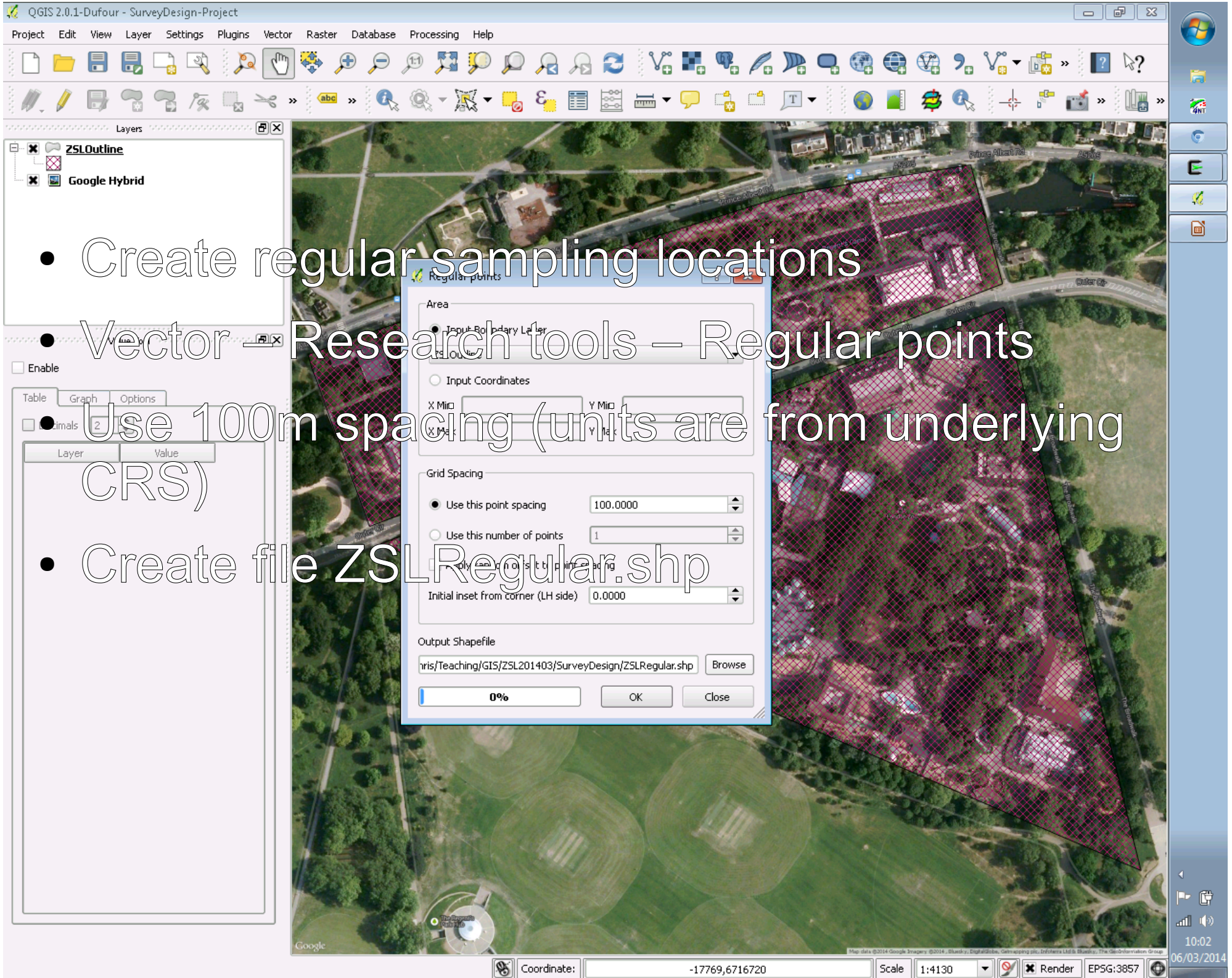
- Layer – New shapefile
- Select polygon button
- Select CRS EPSG:3857 – WGS84 / Pseudo Mercator
- Create new attribute – Name – Text data
- OK – Save file – ZSLOutline.shp



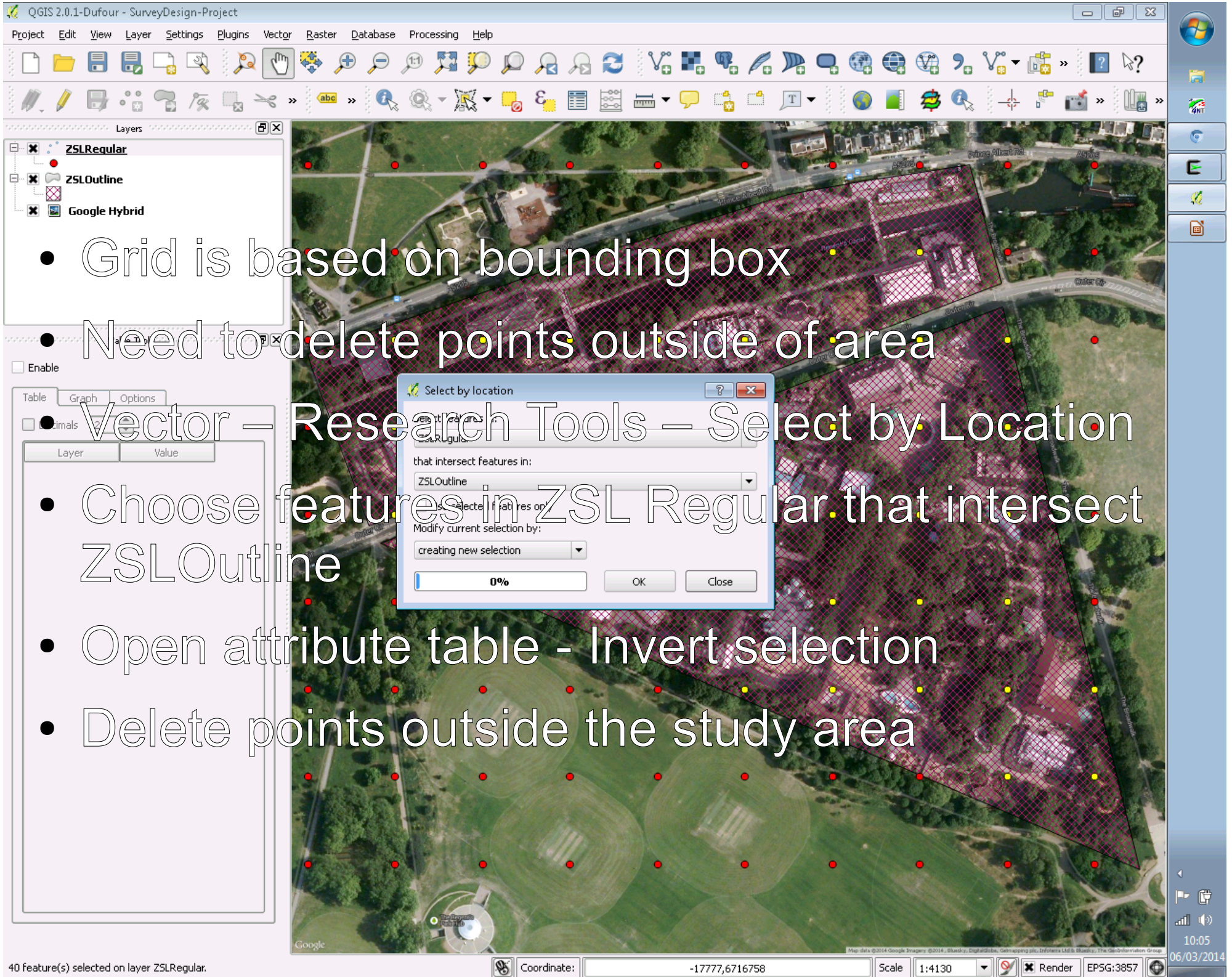
- Select new layer "ZSLOutline"
- Enable editing
- Select add feature button
- Trace around southern triangle of zoo
- Call this id=1 and name="southern triangle"


QGIS 2.0.1-Dufour - SurveyDesign-Project
Project Edit View Layer Settings Plugins Vector Raster Database Processing Help
Layers
ZSLOutline
Google Hybrid
Value Tool
Enable
Table Graph Options
Decimals 2
Layer Value
• Add polygon for northern section of the zoo
1 feature(s) selected on layer ZSLOutline.
Coordinate: -17622,6716908
Scale 1:4130
Render EPSG:3857
10:07
06/03/2014


QGIS 2.2.0-Valmiera - SurveyDesign-Project
Project Edit View Layer Settings Plugins Vector Raster Database Processing Help
Layers
ZSLRandom
ZSLRegular
ZSLOutline
Google Hybrid
What is the area of our study site?
Vector – geometry tools – export/add geometry columns
Click OK to add area and perimeter columns to your shapefile
Check attribute table – figures are m2
Double check with a
Export/Add geometry columns
Input vector layer
ZSLOutline
Save to new shapefile
Browse
Add result to canvas
0%
OK
Close
Attribute table - ZSLOutline :: Features total: 2, filtered: 2, selected: 0
id Name AREA PERIMETER
0 1 Southern Triangle 250018.317734 2368.036999
1 2 Northern Rectan... 147436.312599 1912.856626
Show All Features
Coordinate: -17769,6716991
Scale 1:4,152
Render
EPSG:3857
09:28
24/03/2014



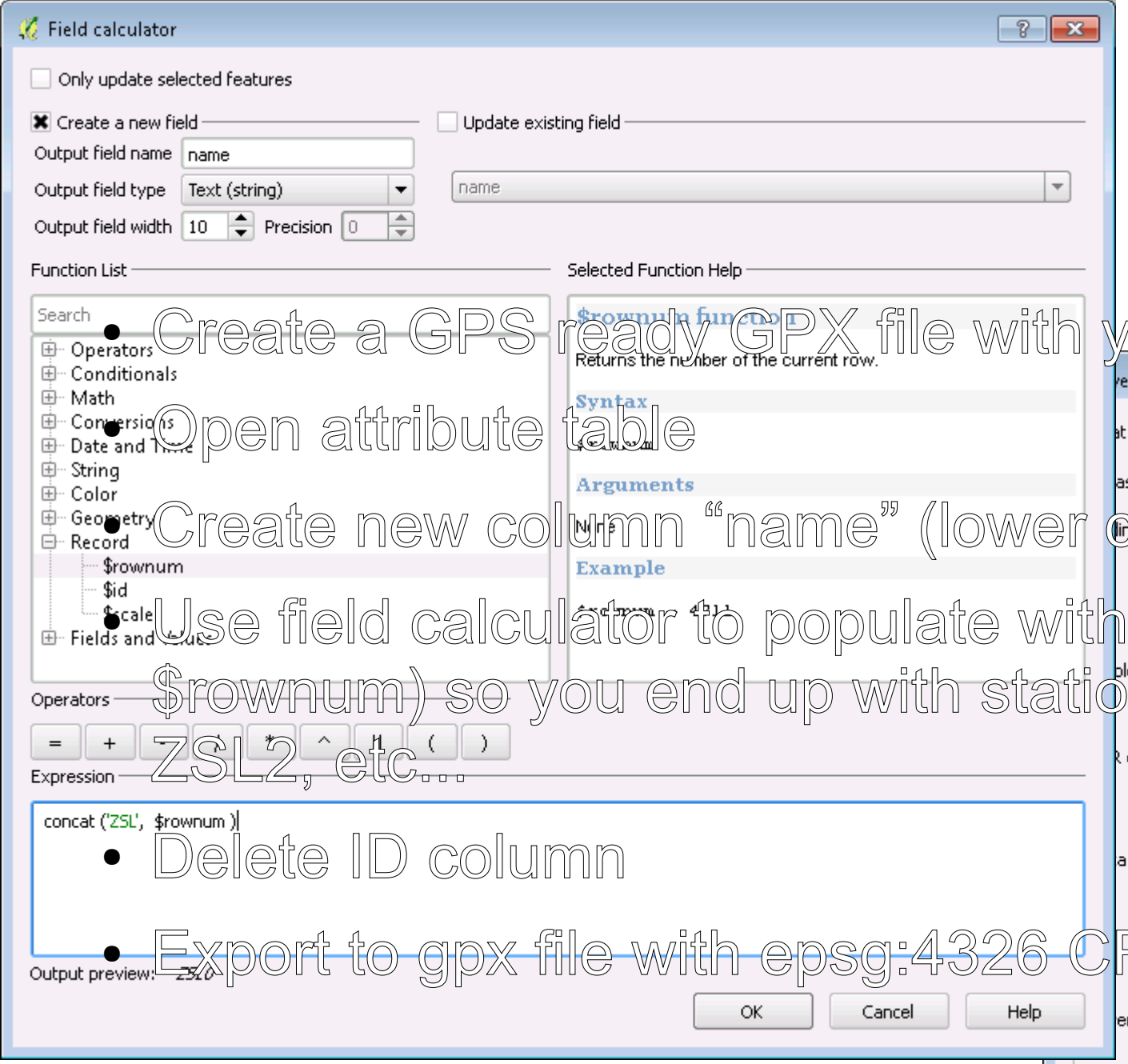
- Create regular sampling locations
- Vector – Research tools – Regular points
- Use 100m spacing (units are from underlying CRS)
- Create file ZSLRegular.shp

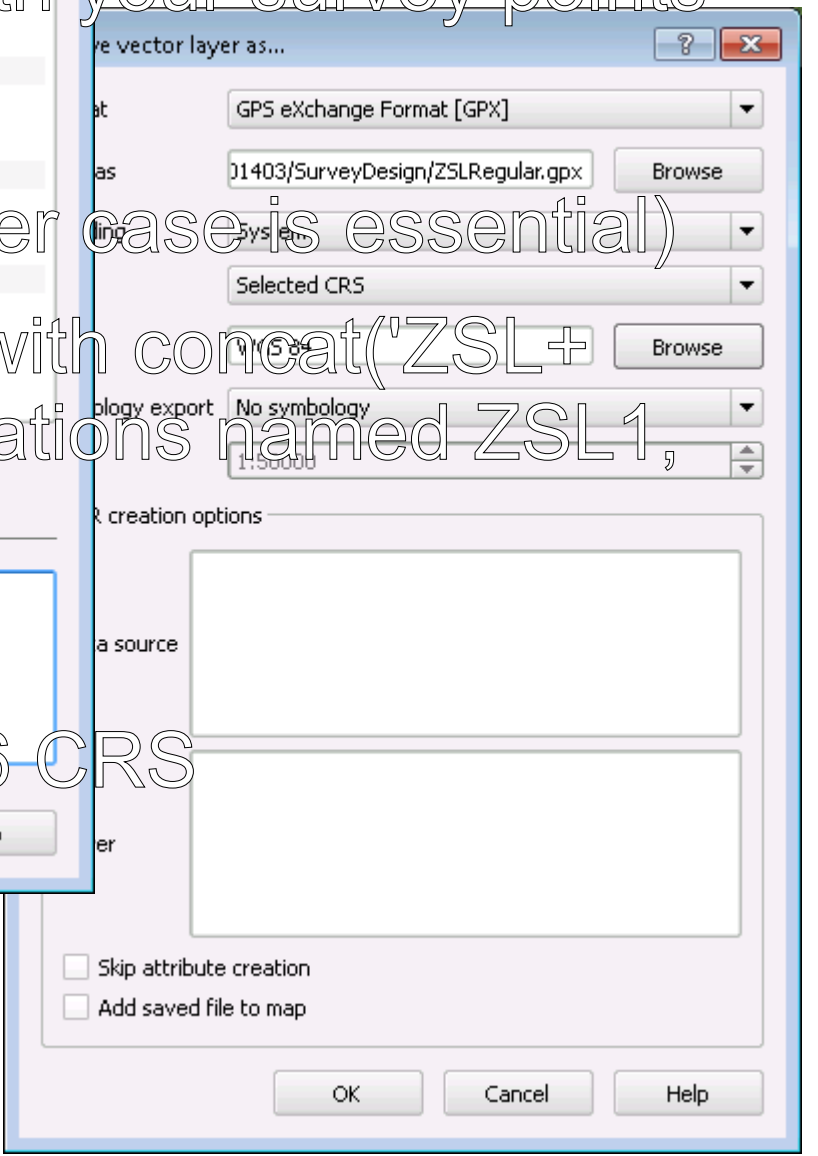


- Grid is based on bounding box
- Need to delete points outside of area

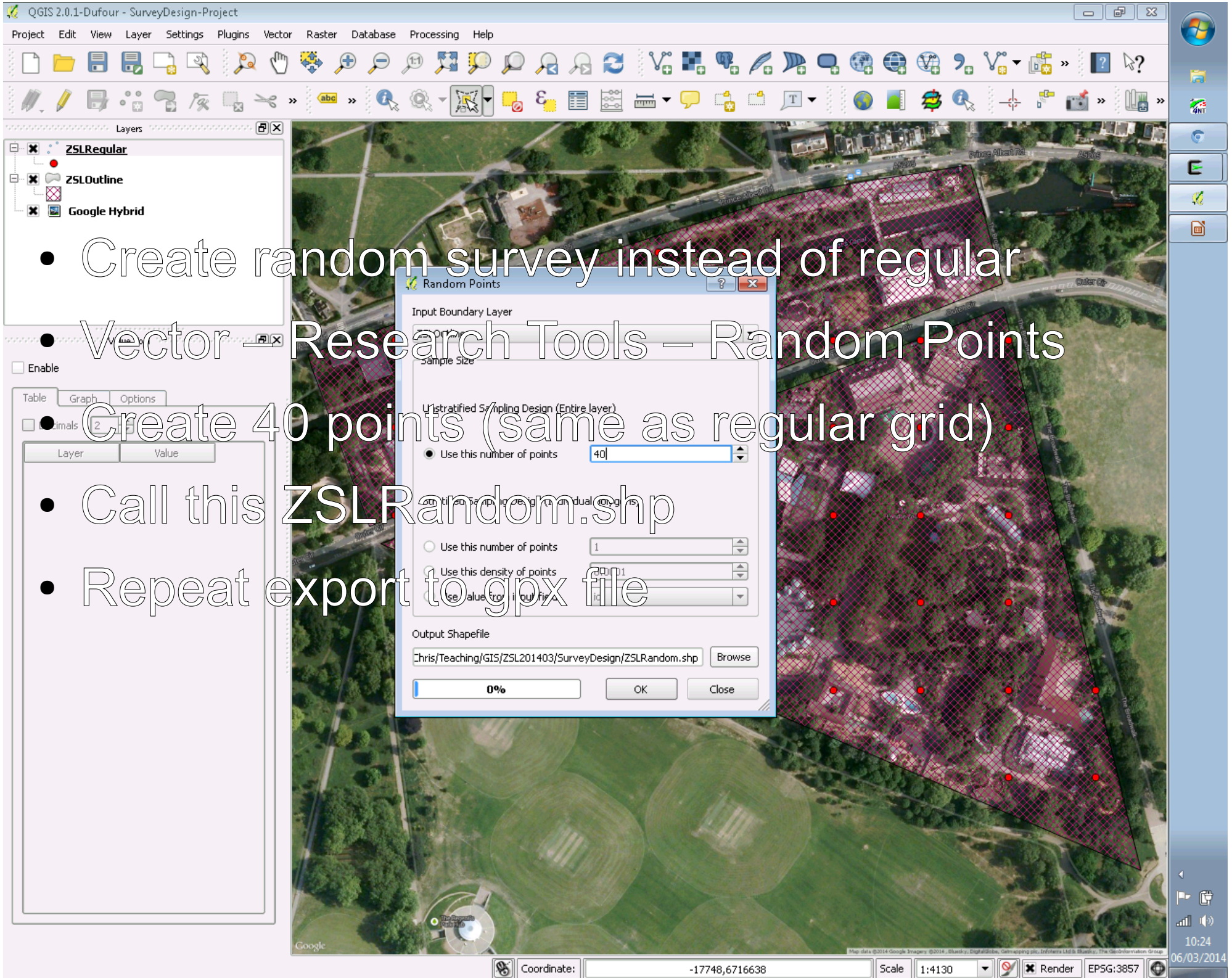
Vector – Research Tools – Select by Location

- Choose features in ZSL Regular that intersect ZSLOutline
- Open attribute table - Invert selection
- Delete points outside the study area





- Create a GPS ready GPX file with your survey points
- Open attribute table
- Create new column “name” (lower case is essential)
- Use field calculator to populate with concat('ZSL+ $rownum) so you end up with stations named ZSL1, ZSL2, etc…
- Delete ID column
- Export to gpx file with epsg:4326 CRS



- Create random survey instead of regular
- Vector – Research Tools – Random Points
- Create 40 points (same as regular grid)
- Call this ZSLRandom.shp
- Repeat export to gpx file