QGIS Application - Bug report #19615 Concave hull fails for some input data

2018-08-13 10:10 PM - Rudi von Staden

Status: Open Priority: Normal

Assignee:

Category: Processing/QGIS

Affected QGIS version:3.3(master)Regression?:NoOperating System:Windows 10Easy fix?:No

Pull Request or Patch supplied: Resolution:

Crashes QGIS or corrupts data: Copied to github as #: 27442

Description

Concave hull fails for certain input data. It seems that when there are a limited number of points and two of them are on or close to a straight line, the algorithm fails when threshold is not 1. The attached image shows the pink hull as the output for threshold = 1, and the brown hull when threshold is between 0.96 and 0.99. For anything less than 0.96 it fails with the message below. I have attached a project with sample data demonstrating the issue.

Processing algorithm...

Algorithm 'Concave hull' starting...

Input parameters:{ 'ALPHA' : 0.3, 'HOLES' : True, 'INPUT' : 'C:/Users/rudi/Dropbox/GIS/shared/concave_hull_test/input.shp', 'NO MULTIGEOMETRY' : False, 'OUTPUT' : 'memory:' }

Creating Delaunay triangles...

Results: {'OUTPUT': 'output_d516bb08_2edb_46c0_9204_cfa079c0462d'}

Computing edges max length...

Removing features...

Dissolving Delaunay triangles...

Feature could not be written to output_40dd6fbb_5c35_42aa_9c35_436e07335e57

Results: {'OUTPUT': 'output_40dd6fbb_5c35_42aa_9c35_436e07335e57'}

Saving data...

Execution completed in 0.08 seconds

Results:{'OUTPUT': 'output_6fcbb10c_d7fe_48e2_b01e_0f93f29f3b64'}

Loading resulting layers

Algorithm 'Concave hull' finished

QGIS 2.18 also had the same behaviour, although it did include the following exception information:

Uncaught error while executing algorithm

Traceback (most recent call last):

File "C:/OSGeo4W64/apps/qgis-ltr/./python/plugins\processing\core\GeoAlgorithm.py", line 203, in execute self.processAlgorithm(progress)

File "C:/OSGeo4W64/apps/qgis-ltr/./python/plugins\processing\algs\qgis\Dissolve.py", line 125, in processAlgorithm outFeat.setAttributes(attrs)

UnboundLocalError: local variable 'attrs' referenced before assignment

Files

concave_hull_bug.PNG 18.5 KB 2018-08-13 Rudi von Staden

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