When buffering ('DISSOLVE':True) a valid GeoPackage Pointlayer and choosing a distance small enough for the resulting bufferlayer to have multiple parts, the resulting GeoPackage Layer (saved in the same GeoPackage) will be of Geometry Type Polygon (where it should be Multipolygon).

Problems with the resulting Layer
- The Layer (or parts of it) are dissappearing when zooming in
- The Layer cannot be used for e.g. spatial selections etc.
- qgis:checkvalidity (with GEOS) shows the whole layer as invalid
- DBManager (or copying the Geometry) shows Geometry Type Polygon (NOT Multipolygon) despite having multiple parts but only one row in the Attribute Table

Executing the fix geometry tool ("native:fixgeometries") and saving the result in the same GeoPackage results in a perfectly fine (Multipolygon)-layer.

From the history window:

- buffer the inputpoints layer in the attached GeoPackage with 200 Meters (with everything dissolved - see processing.run from above)

To reproduce the bug:
- buffer the inputpoints layer in the attached GeoPackage with 200 Meters (with everything dissolved - see processing.run from above)
- the invalid Bufferresult (buffer_200m)
- the repaired (by using "native:fixgeometries") and now valid layer (repariert)
Fixes #21191

Revision f4866402 - 2019-02-11 07:27 PM - Nyall Dawson

[processing] Buffer algorithm should always export multipolygon layers

We can never predict when a buffer will create a multipolygon output (e.g. for negative buffer sizes), so ALWAYS export multipolygons

Fixes #21191

(cherry picked from commit f22f182bcfd7b7f5b5d8f782f3df08ee9d705115)

History

#1 - 2019-02-07 12:15 PM - Giovanni Manghi
- Operating System deleted (Windows 7, 64 bit)

Confirmed also on Linux.

#2 - 2019-02-07 12:22 PM - Giovanni Manghi
- Priority changed from Normal to High

Tagging as high as the results are invalid.

#3 - 2019-02-07 11:37 PM - Nyall Dawson
- Assignee set to Nyall Dawson

#4 - 2019-02-08 07:28 AM - Nyall Dawson
- Status changed from Open to In Progress

#5 - 2019-02-08 09:52 AM - Nyall Dawson
- % Done changed from 0 to 100
- Status changed from In Progress to Closed

Applied in changeset commit: qgis|f22f182bcfd7b7f5b5d8f782f3df08ee9d705115.

Files

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<tr>
<th>bufferbug.gpkg</th>
<th>136 KB</th>
<th>2019-02-06</th>
<th>Andre Sch.</th>
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