

# Sample: 4(46)

**Grain 1:**  
**Grain colour/transparency:**

- Colourless/Transparent

**Grain shape/texture:**

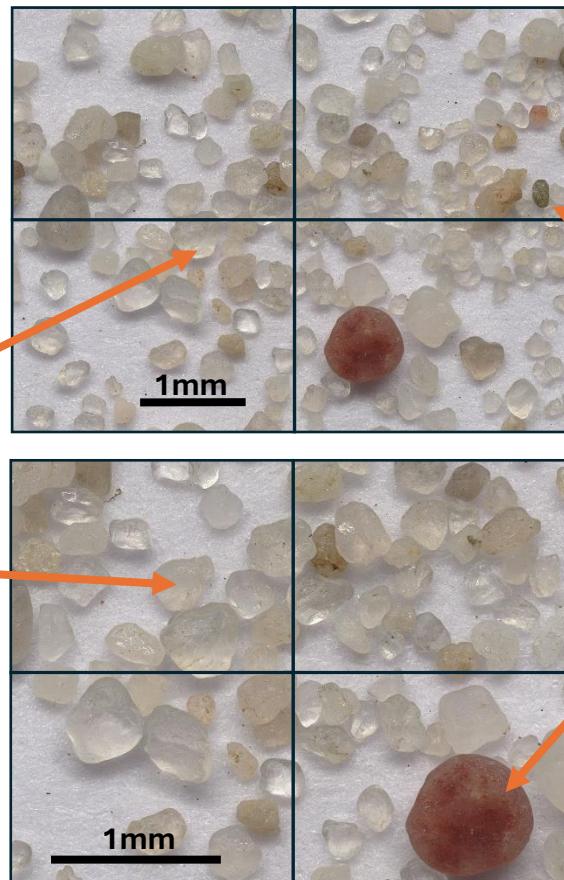
- Sub-rounded
- Spherical
- Angular fractures, polished

**Modal abundance and grain size (estimated):**

- ~90%, 0.1 – 0.5 mm

**Mineral/rock identification:**

- Quartz (mineral)



**Grain 2:**  
**Grain colour/transparency:**

- Green/Opaque

**Grain shape/texture:**

- Sub-rounded, Sub-spherical
- Smooth surface.

**Modal abundance and grain size (estimated):**

- <1%, 0.1mm

**Mineral/rock identification:**

- Lithic (rock)

**Grain 3:**  
**Grain colour/transparency:**

- Pink/opaque

**Grain shape/texture:**

- Sub-rounded
- Spherical

**Modal abundance and grain size (estimated):**

- <1%, 1.0mm

**Mineral/rock identification:**

- Feldspar (mineral)

Images courtesy of Jordan Poole  
The University of Liverpool

## Summary:

### Sediment maturity:

- **Texturally mature:** the grains are generally rounded and spherical with polished edges. **Mineralogically mature:** Primarily quartz grains.

### Provenance:

- **Distal to the source:** grains are texturally and mineralogically mature.

### Transport history:

- Non-abraded surfaces demonstrate likely **fluvial transport**. Primarily grain similar size 0.1 – 0.5mm: transport via steady flow velocity.

## Source:

Liverpool

Washed sample of Late Devensian Shirdley Hill Sand.  
Derived almost exclusively from fluvioglacial debris.

Formal grain sample name:

Well sorted, mineralogically and texturally mature sand.