# informal level 1-2 sand unit (Mol Formation)

**Unit name:** informal level 1-2 sand unit

**Hierarchical unit name**: Mol Formation

**Type:** informal unit

**Code**: -

**Author(s)**:

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**Alternative names: -**

**Origine of the name: -**

**Status:** Informal

**Date**: 01/05/2022

**How to refer:** Vandenberghe, N., Berwouts, I. & Vos, K., 2023. The informal level 1-2 sand unit, 01/09/2023. National Commission for Stratigraphy Belgium. http://ncs.naturalsciences.be/lithostratigraphy/informal-level-1-2-sand-unit

## Characterizing description

In the Poppel-Mol Rauw Fault zone and east of it a coarsening downwards interval is observed below or in the base of (?) the fine-grained Retie Member. It is situated between the levels 1-2 in Vandenberghe et al. (2020) and therefore labelled informally as 'level 1-2 sand unit' (see also Kasterlee Formation Lithostratigraphic Information Sheet).

Limited sediment information from the top of the unit in the boreholes ZEH08/05 and RUS04/03 shows this informal unit is sand, has the same colour as the Retie Member and is slightly coarser than the Retie Member. However the downwards increasing gamma-ray together with a decreasing resistivity signal as observed in the SCK13/Postel2 (032W0415 / kb17d32w-B385) logically would suggest a fining downwards.

## Type section, type locality, type borehole, or type geophysical borehole

The Postel SCK 13 borehole (032W0415 / kb17d32w-B385) is suggested as a reference for the informally named 'level 1-2 sand' unit between 92 and 107 m.

## Description upper boundary

The upper boundary is defined where the trend in gamma-ray signal starts to increase below the stable signal in the overlying Retie Member.

## Description lower boundary

The lower boundary is defined by the sharp increase of the gamma ray signal at the top of the clayey Heist-op-den-Berg Member of the Kasterlee Formation.

## Thickness

The thickness is about 15 m in the Postel SCK 13 borehole (032W0415 / kb17d32w-B385).

## Occurrence

The informal 'level 1-2 sand unit' occurs in the subsurface of Poppel-Mol Rauw Fault zone and east of it; it is limited in the east by the Reppel Fault east of which occurs the Kieseloolite Formation.

## Regional correlations

The informally 'level 1-2 sand unit' occurs between the Retie Member and the Heist-op-den-Berg Member.

## Age

See LIS file Mol Formation for information on the age of the Mol Formation units.

## Dataset

Data in the LIS are part of the DOV-Neogene data collection , including links to the GSB-collection data sheets.

| Name | GSB name | DOV name | GSB Collections URL | DOV URL |
|---|---|---|---|---|
| SCK 13/Postel2 borehole | 032W0415 | kb17d32w-B385 | https://collections.naturalsciences.be/ssh-geology-archives/arch/032w/032w0415.txt | https://www.dov.vlaanderen.be/data/boring/1982-022507 |
| ZEH08/05 | - | ZEH08/05 | - | https://www.dov.vlaanderen.be/data/boring/2018-158884 |
| RUS 04/03 | - | RUS04/03 | - | https://www.dov.vlaanderen.be/data/boring/2018-158885 |

## References

Vandenberghe, N., Wouters, L., Schiltz, M., Beerten, K., Berwouts, I., Vos, K., Houthuys, H. Deckers, J., Louwye, S., Laga, P., Verhaegen, J., Adriaens, R. & Dusar, M., 2020. The Kasterlee Formation and its relation with the Diest and Mol Formations in the Belgian Campine. Geologica Belgica [En ligne], Volume 23, number 3-4 - The Neogene stratigraphy of northern Belgium, 265-287 URL : . https://popups.uliege.be/1374-8505/index.php?id=6530