



# TUKES-GTK GEODATAFLOW

System updates and new features

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# Tukes-GTK Geodataflow

- Geodataflow system is maintained and controlled by Mining Authority of Finland (Tukes). Reporting of the exploration activities to Tukes is carried out via web-based system.
- Reporting covers both annual and relinquishment exploration reports.
- System was launched in July 2020 and has replaced all the old reporting practices.
- Data is public after exploration permit is relinquished, GTK's responsibility is to manage and deliver public exploration data.

<https://geotietovirta.tukes.fi>



The screenshot shows the homepage of the Tukes Geotietovirta system. At the top left is the 'tukes' logo. To the right are language options: 'IN ENGLISH' and 'PÅ SVENSKA'. The main heading is 'Geotietovirta'. Below it is a descriptive paragraph in Finnish: 'Tukes geotietovirta -järjestelmällä luovutetaan ja hallinnoidaan keskitetysti valtaus- ja malminetsintäraportteihin liittyvää vuosi- ja loppuraportointitietoa.' Below this is the text 'TUNNISTAUDU SUOMI.FI-PALVELUSSA'. There are two prominent teal buttons: 'YRITYSKÄYTTÄJÄNÄ' (for business users) and 'YKSITYISHENKILÖNÄ' (for individual users). At the bottom, there is a white button with a teal border that says 'TUNNISTAUDU KÄYTTÄEN VIRTU-TUNNISTUSTA'.

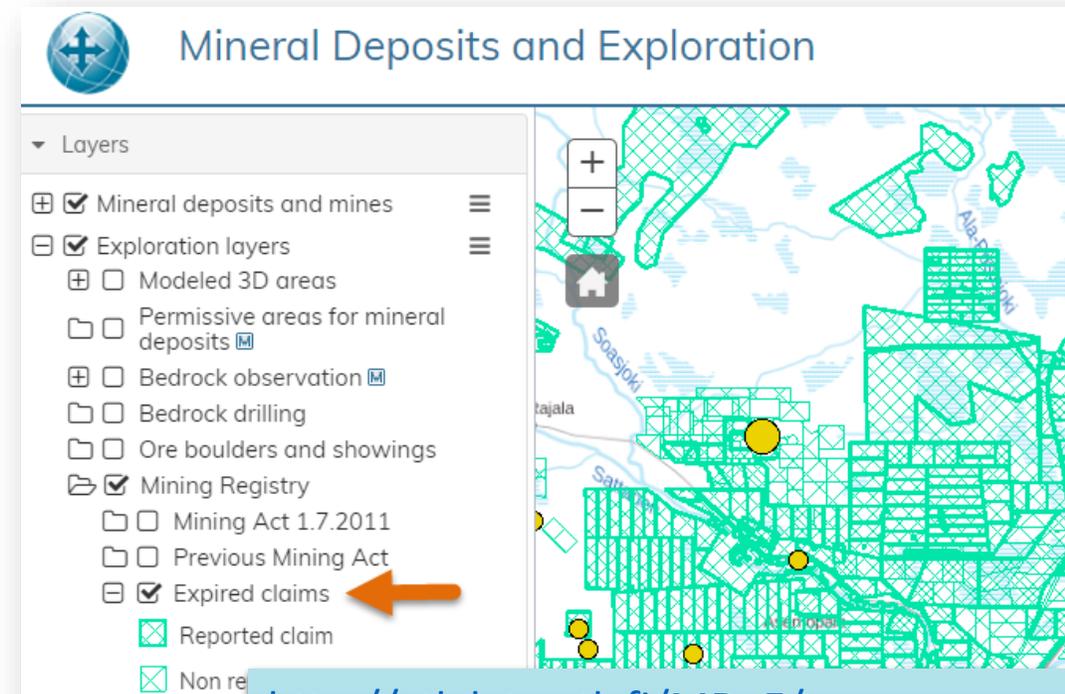
# Tukes-GTK Geodataflow, status



<https://hakku.gtk.fi/>

Search by exploration permit ID / Name

- By May 2025, 87 relinquishment reports have been reported via GTV
  - Data from these is available in Hakku and MDaE-services as downloadable zip files
- Reports delivered by email have decreased.
- Old annual reports are still being delivered as zip file attachments to the final report
  - This is fine, but if the annual reports were created after the introduction of GTV, the only correct way is to import the templates directly into the system

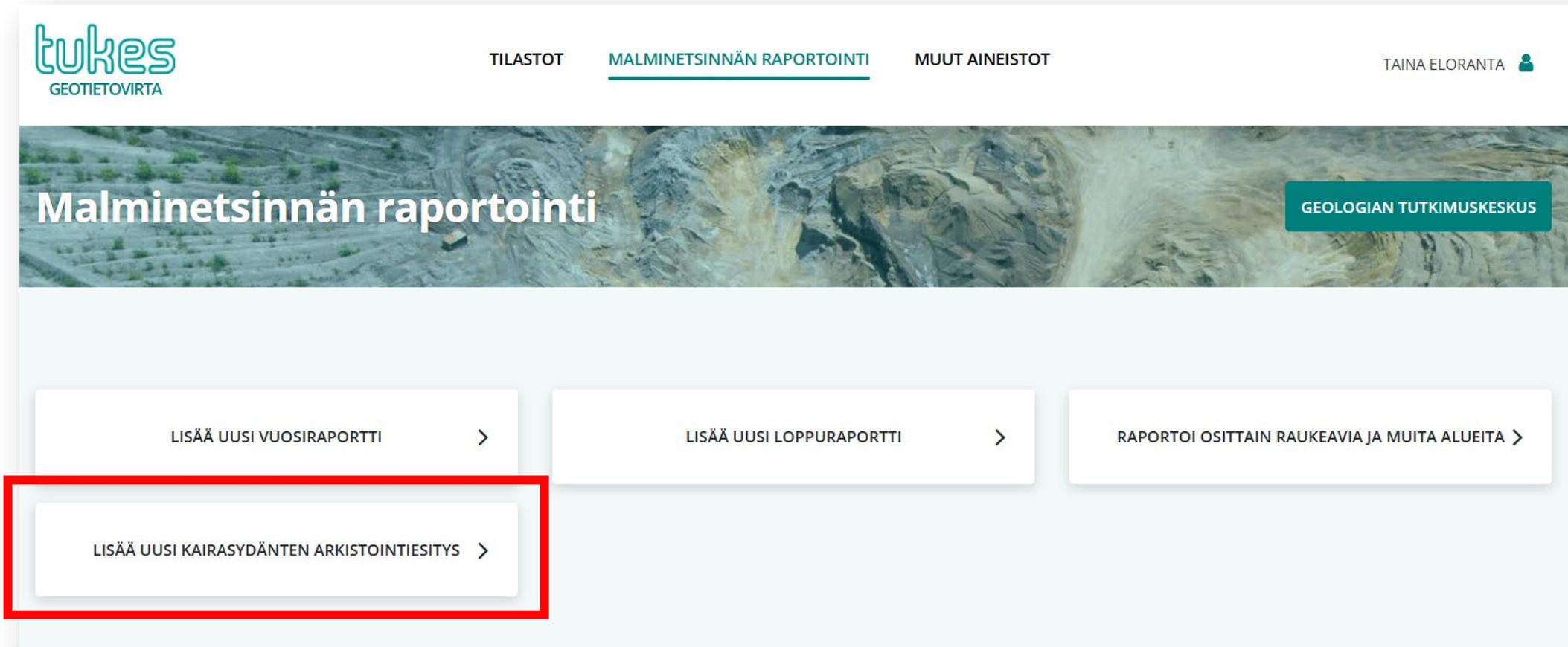


<http://gtkdata.gtk.fi/MDaE/>

Search by location, reports and data are linked to exploration permit polygons

# Drillcore archiving proposals

- Development work for the first version of the Drillcore archiving proposal was completed in spring 2025, and this section can now be used!



tukes  
GEOTIETOVIRTA

TILASTOT MALMINETSINNÄN RAPORTOINTI MUUT AINEISTOT

TAINA ELORANTA

## Malmineitsinnän raportointi

GEOLOGIAN TUTKIMUSKESKUS

LISÄÄ UUSI VUOSIRAPORTTI >

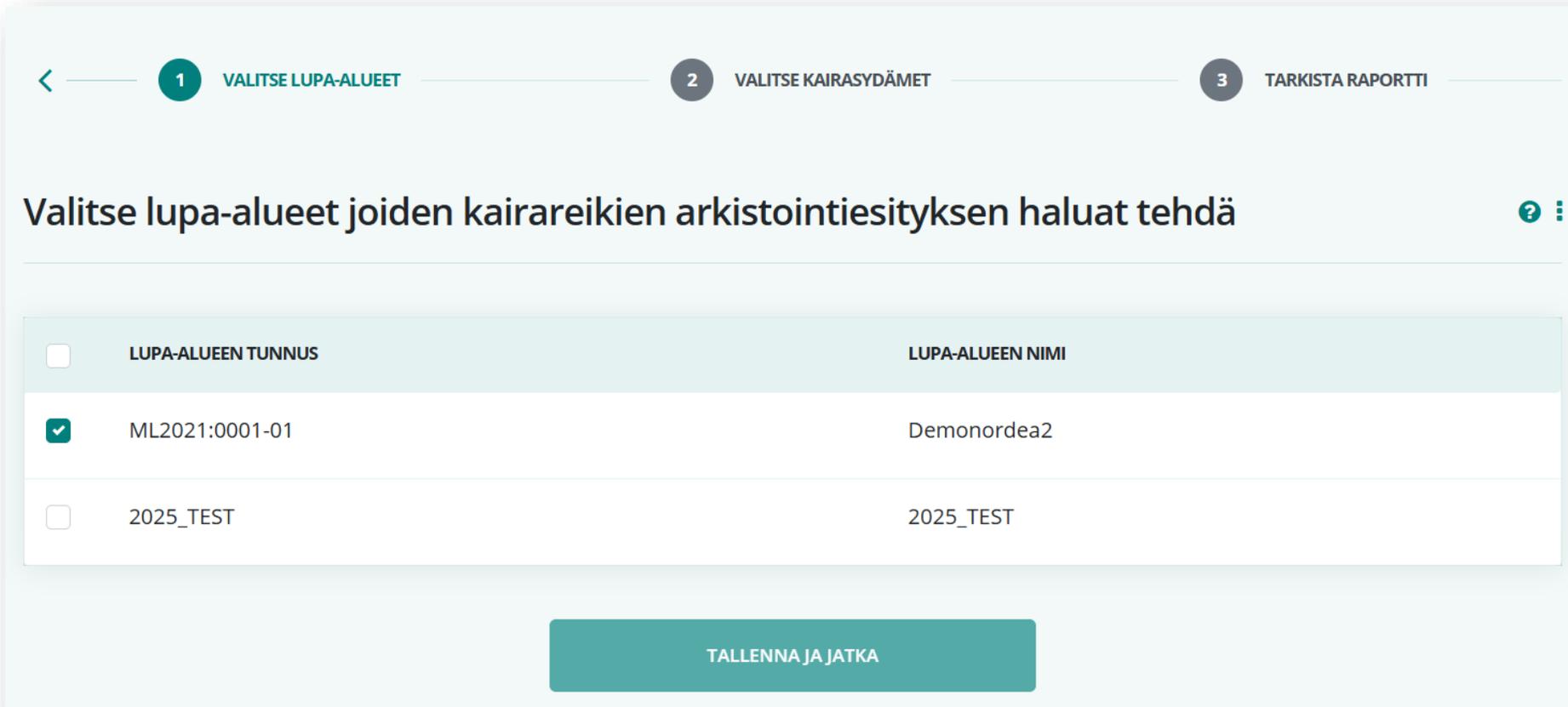
LISÄÄ UUSI LOPPURAPORTTI >

RAPORTOI OSITTAIN RAUKEAVIA JA MUITA ALUEITA >

LISÄÄ UUSI KAIRASYDÄNTEN ARKISTOINTIESITYS >

# Drillcore archiving proposals

- First, select the area for which you want to make an archiving proposal
  - Only areas with a submitted final report are visible here



The screenshot shows a three-step process for selecting archiving areas. Step 1, 'VALITSE LUPA-ALUEET', is active. The main heading reads 'Valitse lupa-alueet joiden kairareikien arkistointiesityksen haluat tehdä'. Below this is a table with two columns: 'LUPA-ALUEEN TUNNUS' and 'LUPA-ALUEEN NIMI'. The first row is selected with a checkmark, showing 'ML2021:0001-01' and 'Demonordea2'. The second row is unselected, showing '2025\_TEST' and '2025\_TEST'. A teal button at the bottom is labeled 'TALLENNA JA JATKA'.

LUPA-ALUEEN TUNNUS	LUPA-ALUEEN NIMI
<input checked="" type="checkbox"/> ML2021:0001-01	Demonordea2
<input type="checkbox"/> 2025_TEST	2025_TEST

# Drillcore archiving proposals

- Drillcore archive proposal document will be attached to the proposal

## Valitut kairasydämet ? ⋮

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**ARKISTOINTIESITYKSEN LIITETIEDOSTOT**

 Raahaa tiedostot tähän tai
 VALITSE TIEDOSTOJA
VALITSE KANSIO

TIEDOSTON NIMI	KOKO	TUONTIPÄIVÄMÄÄRÄ	
2025_arkistointiesitys.docx	11,6 kB	9.5.2025	⋮

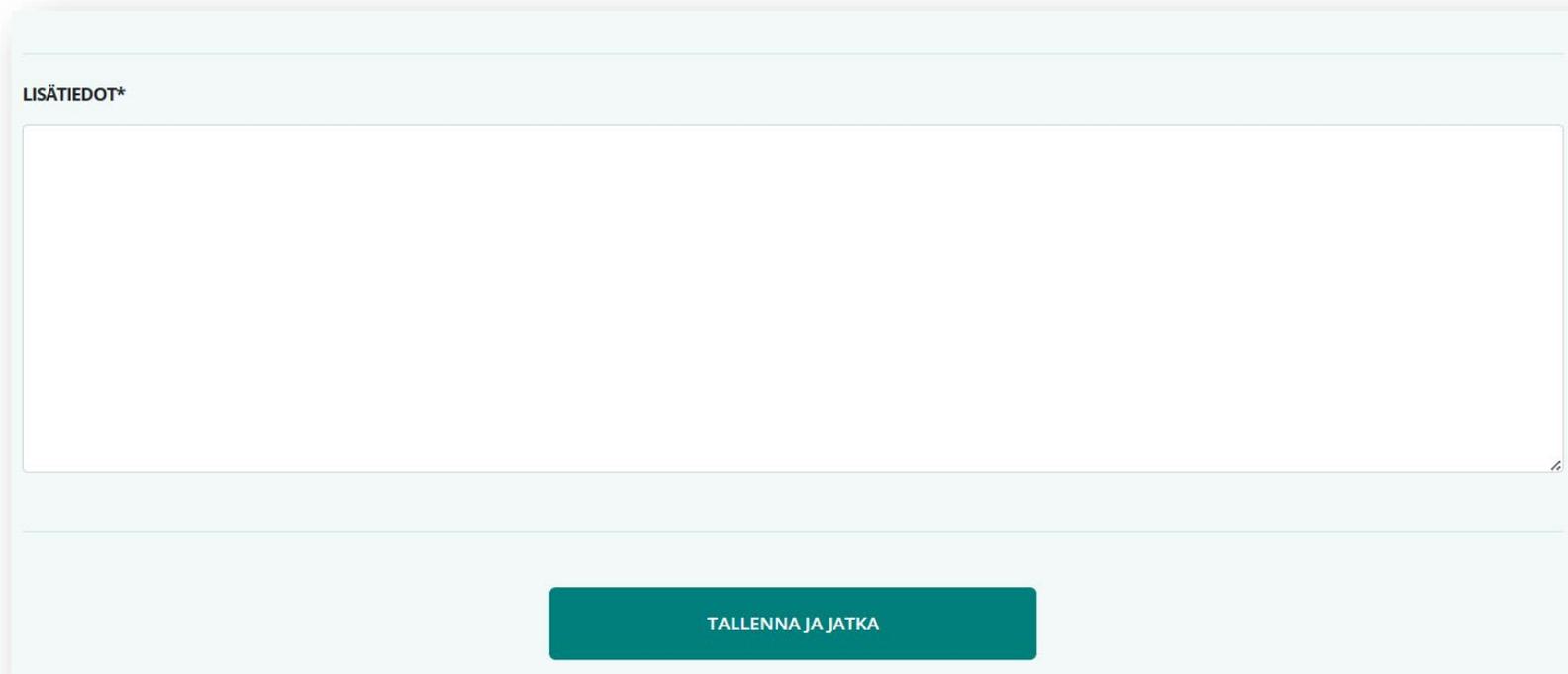
# Drillcore archiving proposals

- Then select the drillholes you want to propose to be archiving
- There is no need to provide excel sheet with collar information for the selected holes, all necessary data is already stored to the GTV.

<input type="checkbox"/>	KAIRAREIÄN TUNNUS	LUPA-ALUEEN TUNNUS	LUPA-ALUEEN NIMI
<input type="checkbox"/>	HoleID003	ML2021:0001-01	Demonordea2
<input checked="" type="checkbox"/>	HoleID002	ML2021:0001-01	Demonordea2
<input checked="" type="checkbox"/>	HoleID001	ML2021:0001-01	Demonordea2
<input type="checkbox"/>	Ei esitetä mitään arkistoitavaksi		

# Drillcore archiving proposals

- There is field for additional information (not mandatory)

A screenshot of a web form interface. At the top left, the text 'LISÄTIEDOT\*' is displayed in a small, dark font. Below this is a large, empty rectangular text input field. At the bottom center of the form, there is a teal-colored button with the white text 'TALLENNA JA JATKA'. The entire form is set against a light teal background with a thin border.

TIEDOSTON NIMI	KOKO	TUONTIPÄIVÄMÄÄRÄ
2025_arkistointiesitys.docx	11,6 kB	9.5.2025

## Lisätiedot

## Valitut kairasydämet

HoleID001: ML2021:0001-01 - Demonordea2

HoleID002: ML2021:0001-01 - Demonordea2

### HYVÄKSY JA LÄHETÄ\*

Olen tarkastanut raportoitavat tiedot. Lähetetyn raportin tietoja ei voi muokata.

- Check the provided information, confirm it, and press 'Send'
- The archiving proposal will then be transferred to the interface for GTK to process

# Drillcore archiving proposals

- GTK will review the archiving proposal
- If not all drillcores are approved for archiving, GTK can modify the selection of drillholes

## Yleistiedot

Raportoijan nimi	Raportointivuosi	Lähettänyt	Raportti lähetetty
Demo Nordea	2024	Demo Nordea	09.5.2025 13.08

## Valitut kairasydämet

HoleID001: ML2021:0001-01 - Demonordea2  
HoleID002: ML2021:0001-01 - Demonordea2

[VAIHDA ARKISTOITAVIEN KAIRASYDÄNTEN VALINTAA](#)

## Drillcore archiving proposals

- At the moment, GTK is unable to attach its statement to the system, so these will still be delivered by email via Tukes after the processing of the archiving proposal.
- Drillcore archiving proposals can also be sent via email to Tukes
  - Note, that GTK cannot process archiving proposals without data!

# Corrected flaws in the GTV system

- Sampling: GTV did not allow duplicate SampleIDs meaning that samples which have been assayed in two laboratories with different BatchIDs caused problems when importing data.
  - This flaw is now fixed and GTV allows to report duplicate sample\_IDs!

sample:

Hole_ID	From_m	To_m	Sample_ID	Assay_batch_ID
HoleID001	20	21	1001	111
HoleID001	21	22	1002	111
HoleID001	20	21	1001	222
HoleID001	21	22	1002	222



Hole_ID	From_m	To_m	Sample_ID	Assay_batch_ID
HoleID001	20	21	1001	111, 222
HoleID001	21	22	1002	111, 222

assay\_batch\_header:

Assay_batch_ID	Laboratory	Batch_status	Report_date	Remarks
111	Labtium	Completed	5.8.2023	
222	ALS	Completed	14.9.2023	



Assay_batch_ID	Laboratory	Batch_status	Report_date	Remarks
111, 222	Labtium, ALS	Completed	5.8.2023	Batch 111 Labtium, Batch 222 ALS (report_date 14.9.2023)

## New data from already reported drillholes

- If new data is produced related to drilling (e.g., downhole survey or thin sections), but the annual report for drilling data has already been submitted earlier, how to proceed?
  - GTV is designed so that if the same drillholes are reported again the following year, the old data in the database will be replaced with the new data. This way, corrections and additions made to the company's databases will overwrite the old information, and duplicates will not be created.
  - To prevent the existing data from being overwritten, there is two way of reporting the new studies:
    1. Include the new studies into the template reported earlier and import everything again.
    2. Submit new studies as a separate file, attach it to the 'Other files' section covering the whole permit area
      - Use the corresponding sheets from the template file for reporting, rename the file according to studies made
      - HoleID must be written the same way as in the previously reported data
      - Include also all the necessary attachments, such as borehole measurement data

## Re-logged drillholes

- If you have re-logged drillcores at Loppi and these are located within permit area, these re-logs should also be attached to the final report.
  - There is no need to import re-logs with template, you can attach them as file to the 'Other files' section

RAPORTOITAVAT OSIOT

KALLIOPERÄKAIRAUUS

KALLIOPERÄHAVAINNOT JA LOHKAREHAVAINNOT

MAAPERÄKAIRAUUS

MAAPERÄHAVAINNOT

AEROGEOFYSIIKKA

MAASTOGEOFYSIIKKA

 MUUT TIEDOSTOT



**GTK**

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