

Bring Your Own Data (BYOD) to the Health Data Platform BC (HDPBC)

Process for HDPBC Users

HDPBC Desktop provides projects (organizational or academic research) with the ability to import additional data, application code, documentation, etc. All incoming information will be de-identified, linkable when applicable, and human reviewed. Patient and provider names should be excluded from any imports to the platform for your project.

You can import the information into the secure desktop based on file size and content. The table below outlines the three types of import and qualifying criteria for each of the methods.

For any questions, reach out to MOHAnalytics@gov.bc.ca.

Type of Import	Qualifying Criteria	Transfer Method & Other Info
1. File Import – HDPBC File In Portal	Use this method if your file: <ul style="list-style-type: none"> • Is under 24MB AND does not contain personal or sensitive information. • The information will not be linked for analysis 	<ul style="list-style-type: none"> • HDPBC File In/File Out Portal • Imported by requestor
2. Cohort Import – Ministry of Health (MOH) Secure File Transfer Protocol (SFTP)	Use this method if your file: <ul style="list-style-type: none"> • Contains personal or sensitive information (must be encrypted, with patient and provider names <i>excluded</i>) AND/OR is over 24MB. The information may be linked to HDPBC data for project analysis if applicable.	<ul style="list-style-type: none"> • SFTP • Imported by HDPBC Technical Support team • Data file should be .csv format • Data should be extracted with UTF-8 encoding • Metadata information should be included as a .xls file
3. GitHub Repository Imports – Public URL	Use this method to import git Repository. <ul style="list-style-type: none"> • The repository must be public. 	<ul style="list-style-type: none"> • Public URL import • Imported by HDPBC Technical Support team • If application code is included in the Git Repository, the HDPBC Security Threat Risk Assessment (STRA) process may be required, which can delay the import of the repository

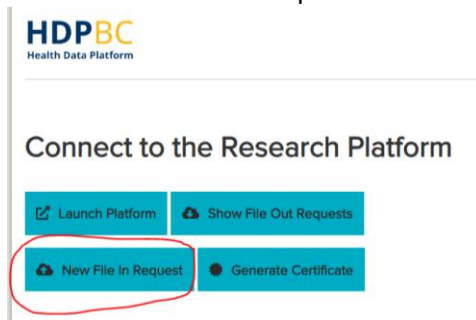
subject to completion of the STRA

1. File Import – HDPBC File In Portal

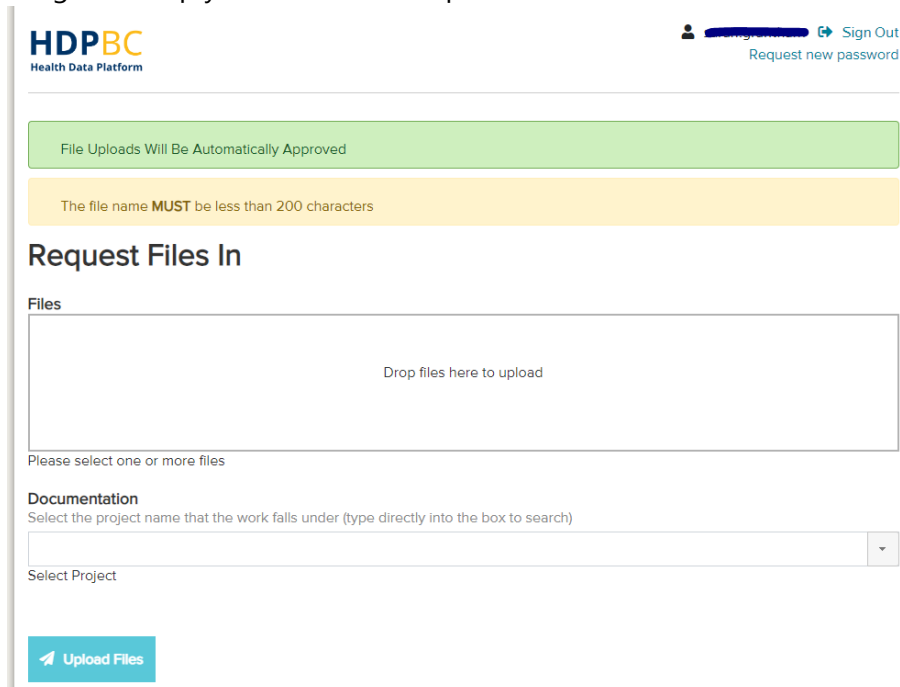
If your file does not contain sensitive personal information and is under 24MB, you may upload it yourself via the File In portal. For files over 24MB or that contain sensitive personal information, use [Cohort Import and Large Files](#).

Step 1

- **Using incognito browsing**, log in to the HDPBC Desktop: <https://portal-hdpbc.healthbc.org>
- Select "New File In Request"



- Drag and drop your file in. Click Upload Files.



Step 2

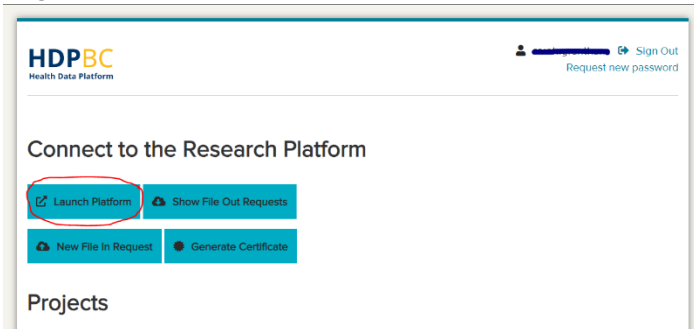
Wait for an email from the HDPBC Support Team.

HDPBC Support will scan the file for viruses and review the data for personal identifiers before releasing them for import to the HDPBC. You will receive an email notification after the files have been reviewed. If they've been approved for release, you can download them from within the HDPBC Desktop.

Step 3

Download the files from within the HDPBC Desktop.

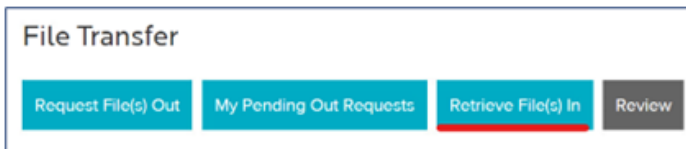
- Log in to the HDPBC Desktop.



- Open the **File In and Out** portal on the Desktop. Log in with your HDPBC credentials.



- Click **Retrieve File(s) In**



- You will see a list of your pending and approved file uploads. Click the view (eye) icon to access the file upload.

HDPBC Health Data Platform

PHSABC\nikheel.premasagar Sign Out

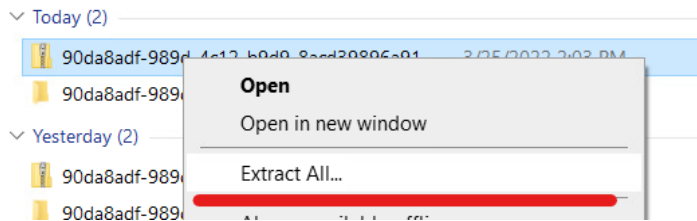
My File Uploads

Pending Requests

Posted	Project	Files	ApplicationStatus	View
02/03/22 15:43		1 (90.8 KB)	Pending	
26/11/21 09:43		1 (14.1 KB)	Pending	

Posted	Project	Files	ApplicationStatus	View
18/03/22 15:40	Testing	6 (868.6 KB)	Approved	
04/02/22 12:40	Testing	1 (95.3 KB)	Approved	
27/01/22 13:06	Testing	1 (27.2 KB)	Approved	

- Download each file individually by clicking the download icon in the request bar or download all the files at once by clicking **Download all as a ZIP**.
 - Your files will download to the "Downloads" folder
- Move the files to your P: drive to save them.
 - ! **Files left in the downloads folder will not be saved once you log off from the HDPBC Desktop**
- If you downloaded all your files a one ZIP, right click the folder, select **Extract All**, and follow the prompts.



Step 4

Access the files in your P: drive.

- Open the File Explorer
- Select **This PC**
- Open your P: drive
(Your P: drive has your name in the folder name. Files saved in the P: drive will be available only to you.)

2. Cohort Import – MOH SFTP

IMPORTANT: Applicants must have obtained approval from the provider of the data being imported into the HDPBC to be used for linking and analysis prior to requesting to import it to the HDPBC for their project.

To apply privacy protection rules to the cohort data being imported to your project, the HDPBC Technical Support team needs to know which columns are **direct identifiers**, and **indirect identifiers**.

Direct identifiers, including those with null or proxy values, will be encrypted to facilitate linking of your cohort with your HDPBC project data in the platform. Please include additional descriptive columns to flag these values for use in your analysis, if appropriate.

Ensure that provider and/or patient names have been excluded from your file prior to transferring.

- **Direct Identifiers** are variables that can directly identify individuals, either individually or in combination. e.g., name, email address, IP address, home address, personal health number (PHN), social insurance number (SIN).
- **Indirect Identifiers** are variables that don't directly identify an individual but can be used for indirect re-identification. Whether a variable is an indirect identifier depends on the nature of the data.

Step 1: Prepare a Metadata Information for your cohort data

File: Cohort Metadata information

Format: .xls

Ensure your data is extracted with UTF-8 encoding to prevent the generation or inclusion of special characters that are not accepted by the HDPBC.

Cohort Metadata Information				
Name of File	Attribute Name	Data Type	Type of Information	Identifier Flag (direct or indirect)

Example populated Metadata Information Table:

Cohort Metadata Information				
Name of File	Attribute Name	Data Type	Type of Information	Identifier Flag
test_cohort_rpt_sample.csv	PHN	varchar(50)	Personal Health Number	Direct Identifier

test_cohort_rpt_sample.csv	Name	varchar(50)	First and Last Name	Direct Identifier
test_cohort_rpt_sample.csv	Diag_Code	int	Code representing diagnosis	
test_cohort_rpt_sample.csv	FSA_location	varchar(250)	First three digits of postal code	Indirect Identifier
test_cohort_rpt_sample.csv	home_address	varchar(250)	Home address	Direct Identifier
test_cohort_rpt_sample.csv	attend_time	float	Time spent on patient	
test_cohort_rpt_sample.csv	ICD_10_code	int	ICD 10 Code	
HDPBC_cohort_rpt.csv	PHN	varchar(50)	Personal Health Number	Direct Identifier
HDPBC_cohort_rpt.csv	Mother Name	varchar(50)	First and Last Name of Mother	Direct Identifier
HDPBC_cohort_rpt.csv	Diag_Code	int	Code representing diagnosis	

Step 2: Notify HDPBC Front Counter of Readiness

When your data is ready to transfer, email HDPBC Front Counter (MOHAnalytics@gov.bc.ca). Include your:

<ul style="list-style-type: none"> • Project name • Principal applicant name • Project number • SFTP/technical contact name 	<ul style="list-style-type: none"> • SFTP/technical contact phone number* • SFTP/technical contact email address • Metadata information table (completed in Step 1)
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The HDPBC Front Counter will review your request and send it on to the HDPBC Support Team, who will support you in completing your import via MOH SFTP*.

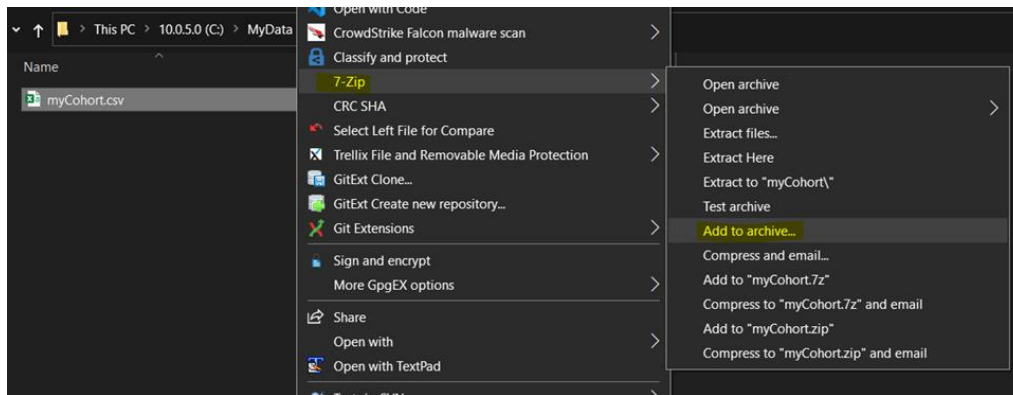
*The MOH SFTP team will contact you via this phone number; please ensure you provide a number you can be reached at.

Step 3: Download Encryption Software

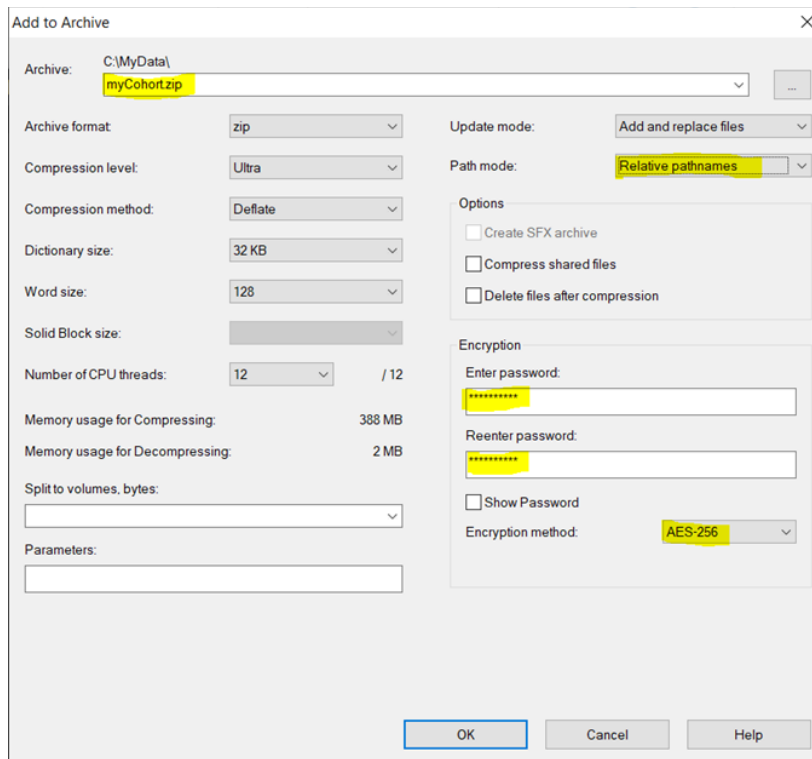
Download [7-Zip](#) to encrypt and compress your file.

Step 4: Encrypt and Compress your file(s)

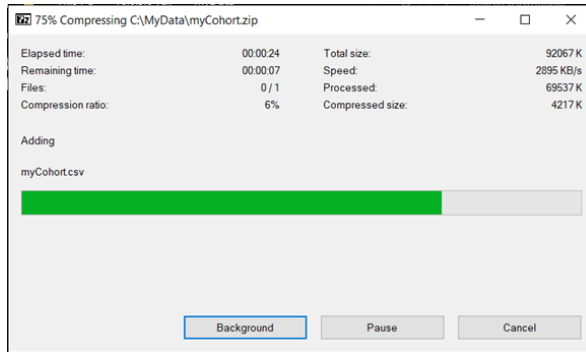
- Right-click on the file and select **7-Zip > Add to archive...** from the 7-zip submenu.



- Enter the file name and ensure **Path mode** is **Relative pathname**.
- In the **Encryption** section, enter a strong password under **Enter password** and under **Re-enter password**.
- Ensure **Encryption method** is **AES-256**.
- Leave the rest of the fields as default.



- Wait for the file to compress.



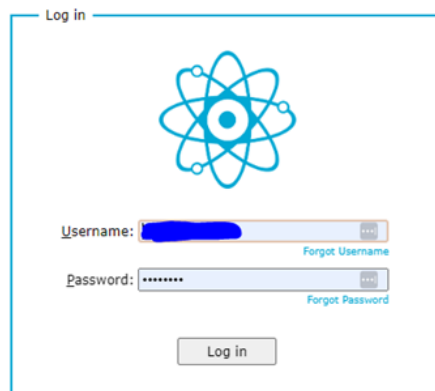
When complete, you will have a new zip file. This is the file you will upload to HDPBC, in addition to your metadata information .xls file.

Step 5: Upload your data and metadata information files to SFTP

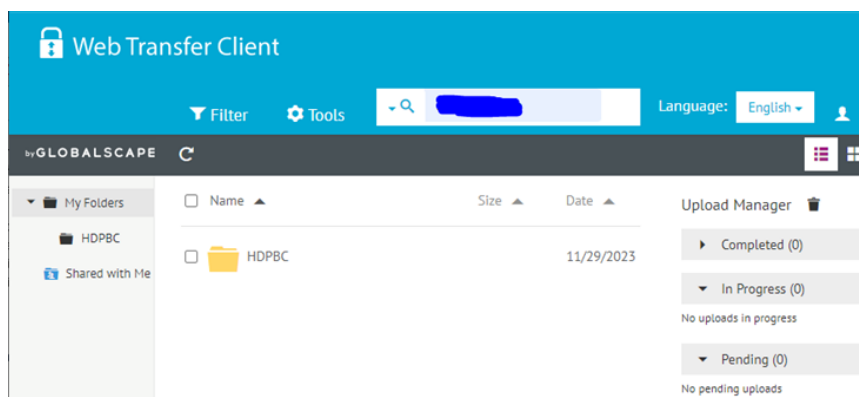
The MOH SFTP Web Client allows for a simplified upload experience as compared to uploading to HDPBC's SFTP server. This method **does not require an SSH key, an HDPBC credential nor an SFTP client**. A browser is all that is required.

1. MOH NETREQUEST will email you a User ID and call you to provide the password. You will need that to complete the following steps.
2. Navigate to the MOH SFTP Web Client and enter the **Username** and **Password** provided.

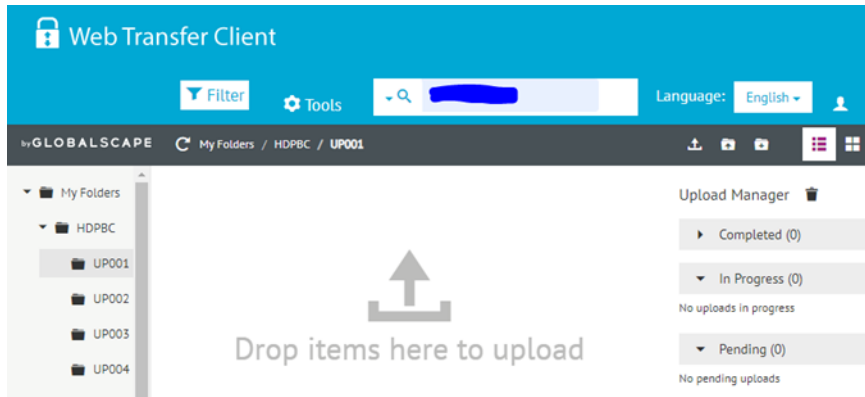
<https://webftpsvcs.hlth.gov.bc.ca>



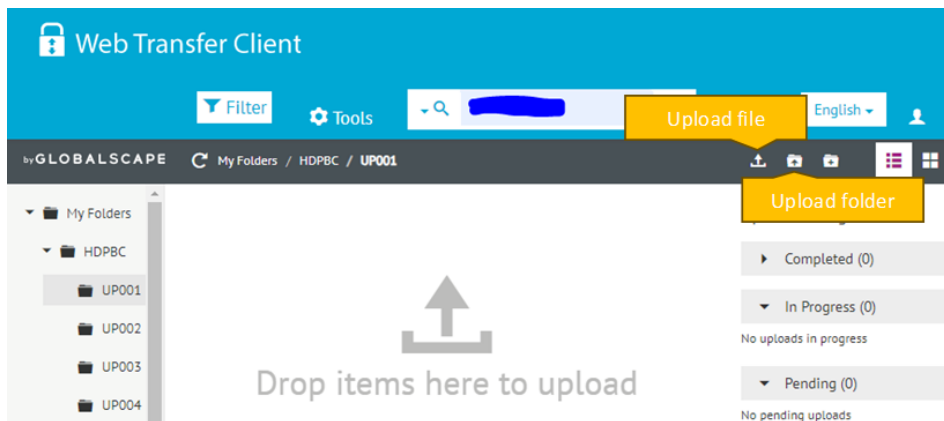
3. You will arrive on the Web Transfer Client web page.



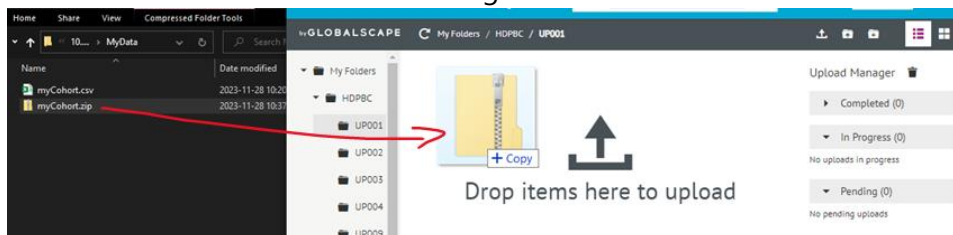
- Click on **HDPBC** in the left-hand navigation pane and then choose a Project folder. Most users will only see one folder that corresponds to their HDPBC Project. In the example below we chose **UP001**.



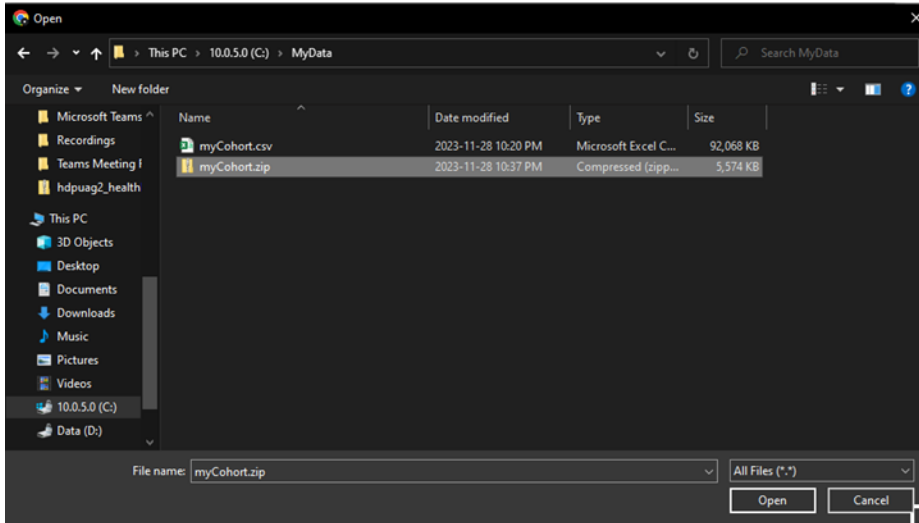
- Now we are going to upload the file(s). To upload, your file must first be compressed and **ENCRYPED WITH MINIMUM AES-256 or RSA-2048 BEFORE UPLOADING**.
- To upload a file, drag and drop the file onto the space where it says **Drop items here to upload** or use the buttons at top right highlighted below. One button uploads a file and the other uploads an entire folder. You likely only need the **Upload file** button, as you will have compressed all your files into one zip.



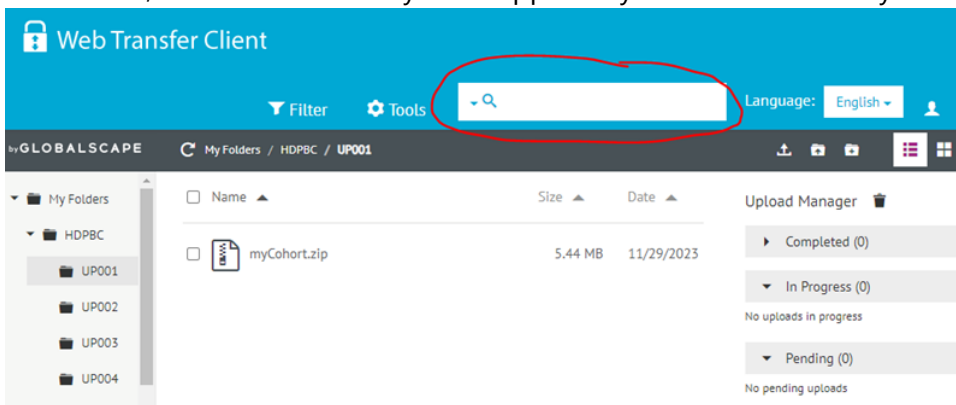
Dragging and dropping your file from Windows Explorer is depicted below. The Explorer window is on the left with black background and the Web Transfer Client is on the right.



Alternatively, you may use the **Upload file** button as depicted below. When presented with the Open dialogue, select your compressed and encrypted file and click **Open**.



7. Whichever method you chose, the file should now be uploaded. If you don't see the file in the middle of the web page, you may have to remove your **userid** from the encircled area below; it is a filter that may be applied by default without any action from you.



8. Notify the HDPBC Front Counter (MOHAnalytics@gov.bc.ca) that the file has been uploaded for the HDPBC Technical Support team to pick up—***please include your encryption password (refer to Step 4 above) for file retrieval.***

3. GitHub Repository Imports – Public URL

PLEASE NOTE: If application code is included in the Git Repository, the HDPBC Security Threat Risk Assessment (STRA) process may be required, which can delay the import of the repository subject to completion of the STRA.

Step 1

Send the following request details to HDPBC Front Counter (MOHAnalytics@gov.bc.ca):

- Project name
- Principal applicant name

- Project number
- Git Repository information
 - Repository name
 - Location (public URL)

Step 2

Wait for an email confirmation that your Git Repository import has been completed.