

# Release to sewer - Assessment Details

Version 8 May 2015

Name of premises Reference 

Where does effluent discharge from STW go?:

To a brook? To a river direct from STW or via a brook? To estuary/coast direct from STW or via a brook or river? 

Data entry:

Average brook flow rate  m<sup>3</sup>/sAverage river flow rate  m<sup>3</sup>/sSewage works Average raw sewage flow rate  m<sup>3</sup>/day Coastal Location Average coastal/estuary exchange rate  m<sup>3</sup>/s 

Population group

STW worker dose at STW

Farming family dose (sewage sludge to land)

Child playing in brook

Angler dose (river)

Irrigated food consumer dose (river water)

Fisherman dose (estuary/coastal)

Worst

Total dose

 μSv/y μSv/y μSv/y μSv/y μSv/y μSv/y μSv/y

Food Dose

 μSv/y μSv/y μSv/y μSv/y μSv/y

FSA consultation required for non-nuclear permit?

Wildlife Group

River wildlife - Worst affected

Estuary wildlife - Worst affected

 μGy/h μGy/h

	Name	Signature	Date
Assessed by	<input type="text" value="Tanja Holter"/>	<input type="text"/>	<input type="text" value="23.04.2020"/>

Reviewed by	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Guidance

1. The spreadsheet is colour coded as follows:

<input style="background-color: #ADD8E6;" type="text"/>	Row and column headings
<input style="background-color: #FFFF00;" type="text"/>	Data entry by user
<input style="background-color: #ADD8E6;" type="text"/>	Data provided in spreadsheet
<input style="background-color: #FFDAB9;" type="text"/>	Results and interim calculations

2. Assessment Details - Enter the relevant data on this sheet. You should answer the questions relating to the route of the treated effluent as this will ensure that doses are only calculated for the appropriate population groups. You may enter the average brook flow rate, river flow rate, raw sewage flow rate and estuary/coastal water exchange rate. Default values are provided if the information is not available.

3. Releases to sewer - Enter the limits for each radionuclide on this sheet. You may need to select surrogate radionuclides or use the other alpha and

other beta gamma categories.

4. Summary total dose - The results are displayed on this page along with the percentage contribution from each nuclide.

5. STW worker dose, farming family dose, child in brook dose, angler dose, irrig food dose and fisherman dose - The dose contribution from each exposure pathway for these population groups are shown.