



FEM PARAMETERS – RIVER SAVA

AFPO4

100-year return period

HYDROLOGICAL PARAMETERS

- Design flows $Q_{100} = 3433 \text{ [m}^3/\text{s]}$
 $Q_{\text{bankfull}} = 2494 \text{ [m}^3/\text{s]}$
- Peak reduction

$\Delta Q \text{ [m}^3/\text{s]}$	$\Delta Q_{\text{rel}} \text{ [%]}$	FEM Class
12.16	1.29	3

Flood wave translation $\Delta t \text{ [h]}$	FEM Class
4.00	3

HYDRAULIC PARAMETERS

- Water level

$\Delta h \text{ [m]}$	FEM Class
0.10	1
- Flow velocity

$\Delta v \text{ [m/s]}$	FEM Class
0.00	1
- Shear stress

$\Delta \tau \text{ [N/m}^2]$	FEM Class
0.05	1

ECOLOGICAL PARAMETERS

- Connectivity of floodplain water bodies

Historic Water Bodies	FEM Class
4 - FP Exist, Disconnected $Q=3312\text{m}^3/\text{s} > Q_{\text{bankfull}}$	1
- Existence of protected species and habitats

Protected species	FEM Class
78 species	5

Protected habitats	FEM Class
100% habitats	5
- Ecological water status

Status	No	FEM Class
Status 1 - Very poor	0	5
Status 2 - Poor	0	
Status 3 - Moderate	0	
Status 4 - Good	S	
Status 5 - Very Good	0	

Note:
S = Sava
(main watercourse)

HYDRAULIC PARAMETERS

- Land use

Value	FEM Class
3.96	3
- Potentially affected buildings

No houses / km ²	FEM Class
0.71	5

Need for preservation: YES

RESTORATION PRIORITY High

Legend

- WL gauges
- Affected buildings
- Rivers
- Flood Zone extent (AFP)

0 0.5 1 1.5 2 km
Map projection-HTRS96 TM
Date: July 2020.

N
DATA SOURCE:
Hrvatske vode
Državna geodetska uprava
Other Institutions



Contractor:
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