



SLOVENSKÝ
VODOHOSPODÁRSKY
PODNIK, štátny podnik



Information

of Slovak operator of the waterway Danube, Slovak Water Management Enterprise, State Enterprise, on the status of the fairway in 2024 and on the Program for maintenance work of 2025

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1. Introduction – basic information

Responsibility of the Slovak Water Management Enterprise, state company:

- to operate Danube inland waterway of international importance;
- to ensure maintenance and marking of the Danube fairway from r. km 1880,2 – 1708,2 in total length 172 km of Danube river and 42 km Canal of Waterworks Gabčíkovo, at follows sections:

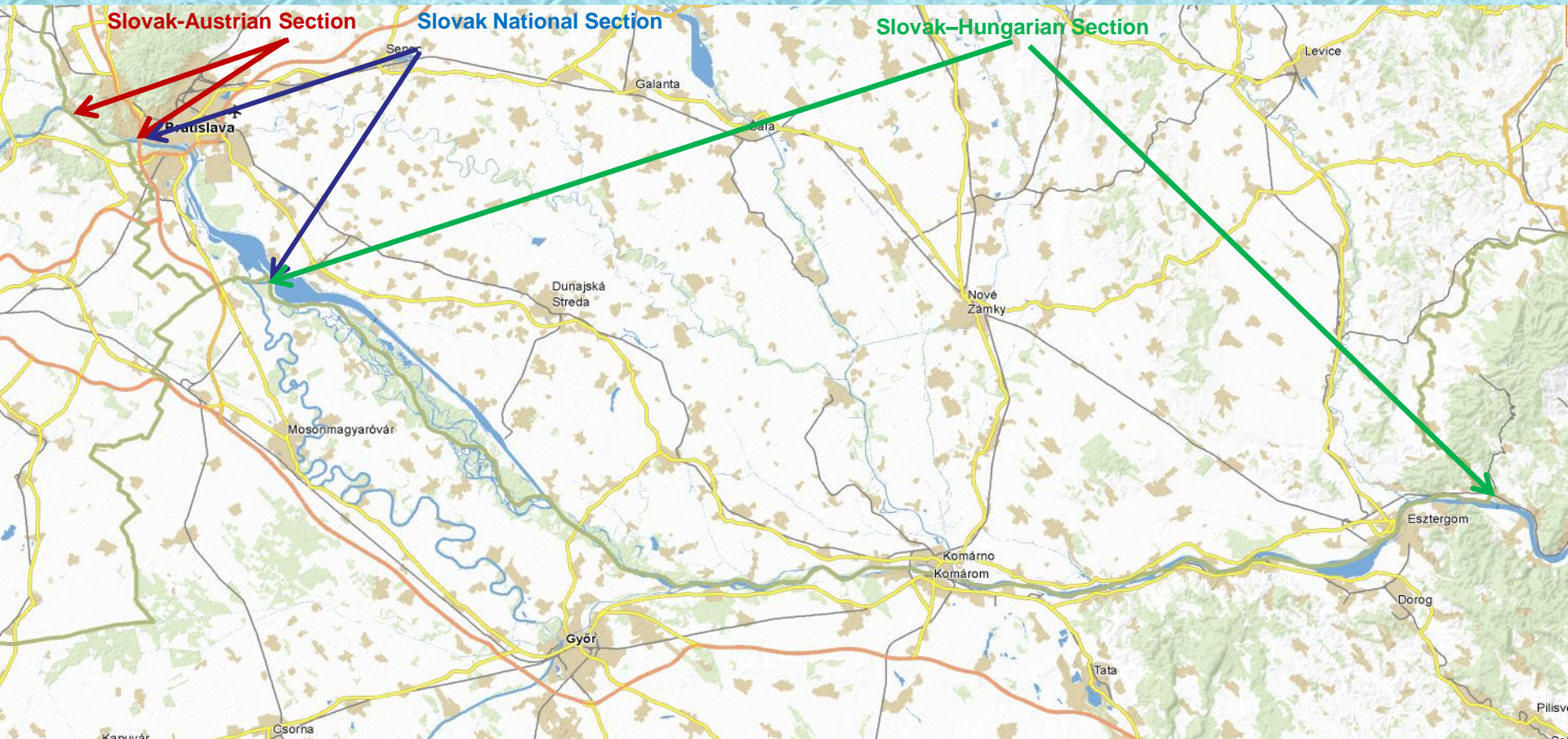
Slovak-Austrian section (7,5 km): r. km 1880,200 – 1872,700

Slovak national section (22,5 km): r. km 1872,700 – 1850,200

Slovak-Hungarian section (142,0 km): r.km 1850,200 – 1708,200

Gabčíkovo waterworks (42 km): r.km 1853,00–1811,00

1. Introduction – situation



2. The state of the main critical sections in 2021 - 2024, including information on the water level

In the monitored sections, there is pay attention to 23 localities, which are defined as critical bottlenecks.

Relevant localities you can see in the table right.

Localities, marked in yellow, are monitored in the framework of the joint Slovak-Austrian and Slovak-Hungarian Commissions for Boundary Waters.

	location	river km	section
1	Devín	1879,6 - 1879,0	SK-AU
2	Kasmacher	1875,7 - 1875,2	SK-AU
3	Lanfranconi	1871,0 - 1870,7	SK
4	Zemník-Vlčie hrdlo	1864,3 - 1863,8	SK
5	Medved'ov	1808,1 - 1807,6	SK-HU
6	Čičov	1799,0 - 1798,7	SK-HU
7	Vének 3	1797,4 - 1796,6	SK-HU
8	Vének 2	1796,3 - 1795,5	SK-HU
9	Vének 1	1795,5 - 1795,2	SK-HU
10	Klišská Nemá 2	1793,9 - 1793,3	SK-HU
11	Klišská Nemá 1	1792,1 - 1791,6	SK-HU
12	Gonyu	1791,4 - 1791,1	SK-HU
13	Veľké Kosihy 2	1789,2 - 1788,3	SK-HU
14	Veľké Kosihy 1	1786,7 - 1785,9	SK-HU
15	Komárno	1764,3 - 1764,0	SK-HU
16	Patince 2	1757,1 - 1756,7	SK-HU
17	Patince 1	1754,3 - 1754,1	SK-HU
18	Kravany	1740,2 - 1739,8	SK-HU
19	Čenkov	1735,2 - 1733,3	SK-HU
20	Mužla	1732,6 - 1732,2	SK-HU
21	Obid	1726,0 - 1724,4	SK-HU
22	Hron sútok	1714,4 - 1713,9	SK-HU
23	Chľaba	1711,5 - 1710,7	SK-HU

3. Overview of monitoring, restoration and maintenance in 2024

From the point of view of navigation, the water conditions of the Danube in 2024 were assessed as good compared to the many last years (not only to 2023), navigation conditions improved due to higher flows. However, during the flood events navigation was prohibited for some time.

Higher flows were reflected in a reduction in the number of days with restricted navigation conditions at fords and bottlenecks.

The created fords enabled 100% utilization of the ship's cargo space during the year 2024 to 73.0% for a duration of 267 days. In 2023, 100% utilization of the ship's cargo space was 66.8% for a duration of 244 days

An overview of the status of the narrow places of the fairway is presented in the next table.

3. Overview of monitoring, restoration and maintenance in 2024

Serial number	Location	Section (rkm)	Width	Number of days			
				2021	2022	2023	2024
1	Devín	1879,60 – 1879,00	120				7
2	Käsmacher	1875,70 – 1875,20	120				6
3	Vlčie hrdlo	1864,30 – 1863,80	120				63
4	Medveďov	1808,10 – 1807,60	120	69			1
5	Čičov	1799,00 – 1798,30	100	73	94	89	17
			110	109	130	87	57
6	Vének 3	1797,40 – 1796,60	80	73	130	89	23
			90	78		87	
			100	31	94		51
7	Vének 2	1796,30 – 1795,50	100	23	26		
			110	159	198	150	74
8	Vének 1	1795,50 – 1795,20	80	84	130	26	12
			90	67		89	
			100	31	94	87	55
9	Klišská Nemá 2	1793,90 – 1793,30	80	151	130	87	19
			100	31	94	89	55
10	Klišská Nemá 1	1792,10 – 1791,60	100	182	224	176	50
11	Veľké Kosihy 2	1789,20 – 1788,30	120	92	151	65	16
12	Veľké Kosihy 1	1786,70 – 1785,90	120	103	170	65	16

3. Overview of monitoring, restoration and maintenance in 2024

Serial number	Location	Section (rkm)	Width	Number of days			
				2021	2022	2023	2024
13	Čenkov (Nyerges)	1735,20 – 1733,30	100	156	207	144	63
14	Mužľa	1732,60 – 1792,20					45
							1
15	Obid	1726,00 – 1724,40	120				2
			130	75	138	77	2
16	Hron	1714,40 – 1713,90	120	29	57	28	
17	Chľaba	1711,50 – 1710,70	100	124	192	121	47

3. Overview of monitoring, restoration and maintenance in 2024

The low discharges were also reflected in the number of days with maximum use of vessels for the transport of goods at 100% utilization of vessel capacity. In 2024, sailing conditions were much better compared to the last years (not only than in 2023).

Depth of fairway	Ship sinking	Use of the ship's cargo space	Usability number of days			
Year			2021	2022	2023	2024
27 dm and more	25 dm and more	100%	240	173	244	267
25 - 26 dm	23 – 24 dm	80 – 90 %	38	54	44	26
23 - 24 dm	21 – 22 dm	70 – 80 %	23	39	34	73
21 - 22 dm	19 – 20 dm	60 – 70 %	35	42	15	
19 - 20 dm	17 – 18 dm	50 – 60 %	18	38	6	
19 - 20 dm	15 – 16 dm	40 – 50 %	11	16	16	
15 - 16 dm	13 – 14 dm	30 – 40 %		3	6	

3. Overview of monitoring, restoration and maintenance in 2024

Monitoring of the fairway status is permanent ensured by relevant expert group. Slovak surveying vessels navigated about 15 000 km.

It includes:

- The control of navigational signs and marks, along all fairway and the navigational depths and widths at bottlenecks / critical sections of the fairway.
- Fairway monitoring of the waterway by bathymetric measurements of the entire section of the Danube at least once a year and selected critical sections several times a year.

In 2024, bathymetric measurements were taken from March to November.

In 2024, maintenance work was concentrated on 3 bottlenecks / critical sections of the Danube fairway.

3. Overview of monitoring, restoration and maintenance in 2024

Regulatory dredging of the national section of the Danube

r. km 1865,50 – 1862,30 - location Vlčie hrdlo

- dredged material in the amount 61 782 m³ of gravel and sand

Navigation km 32,30 – 31,60 – Hrušov reservoir

- dredged material in the amount of 11 012 m³ of gravel and sand

Regulatory dredging of the Slovak-Hungarian section of the Danube

r. km 1792,20 – 1791,40 - location Kližská Nemá 1

- dredged material in the amount of 34 143 m³ of gravel and sand

4. Planned activities to ensure navigation in 2025

DREDGING:

Regulatory dredging of the Slovak-Austrian section of the Danube

Amount of 10.000 m³ of material

Regulatory dredging of the national section of the Danube

Amount of 50.000 m³ of material

Regulatory dredging of the Slovak-Hungarian section of the Danube

Amount of 30.000 m³ of material

Fairway of Hrušov reservoir

Fairway repair and maintenance of the Danube waterway

r. km 1880-1860 and r. km 1810-1709

Bathymetric measurements of the fairway

5. Operating costs for activities implemented in 2024

<u>Regulatory dredging of the national section of the Danube</u> rkm 1865,50 – 1862,30 - location Vlčie hrdlo	1 384 766 €
<u>Dredging of the Fairway of Hrušov reservoir</u>	210 976 €
<u>Regulatory dredging of the Slovak-Hungarian section of the Danube</u> rkm 1792,20 – 1791,40- location Kližská Nemá 1	768 901 €
Repair and maintenance of the Danube waterway 1880-1860 and 1810-1709	625 878 €
Bathymetric measurements of the waterway	274 201 €

5. Budget requirements for 2025

Dredging:

Regulatory dredging of the Slovak - Austrian section of the Danube	644 000 €
Regulatory dredging - national section of the Danube	1 334 000 €
Regulatory dredging of the Slovak - Hungarian section of the Danube	960 000 €
Dredging of the Fairway of Hrušov reservoir	500 000 €
Repair and maintenance of the Danube waterway 1880-1860 and 1810-1709	600 000 €
Bathymetric measurements of the waterway	300 000 €



Thank you for your attention

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