**A new place is open for Vilnius residents - Šeškinė Park**

[A new place is open for Vilnius residents - Šeškinės park - MadeinVilnius.lt - Vilnius news diary](https://madeinvilnius.lt/en/naujienos/miestas/vilnieciams-atverta-nauja-vieta-seskines-parkas/)

The complex terrain, the mistakes of the Soviet-era city planners, intensive urbanization and climate changes led to the fact that every heavy rain meant inevitable flooding for part of the streets of Vilnius, thus - disrupted traffic and constantly destroyed roads.

Today, a 22-month intensively implemented project - EU Cohesion Funds, [**Vilnius city municipalities**](https://madeinvilnius.lt/en/theme/Vilnius-city-municipality/) and companies[**Beam**](https://madeinvilnius.lt/en/theme/beam/)" main surface sewage networks were built in Šeškina with funds that will collect rainwater from the northern part of the city. At the same time, Lithuania's largest rainwater treatment plant and purified water reservoir have been installed, which is indeed another attractive recreational area where Vilnius residents can spend their free time or use as an additional green route for pedestrians or cyclists traveling from Šeškina to Žvērynas.

"This project is an excellent example of how one project can achieve many goals: the risk of flooding the streets of the central part of the city has been resolved, a recreational rainwater storage facility has been installed in Šeškinė and a great recreation space where Vilnius residents can spend their free time. After the municipality made additional investments, we installed pedestrian and bicycle paths, a children's playground, and benches here. Finally, at the same time, the infrastructure of the northern part of Žvērynas was also repaired - the pavements and sidewalks of Migla, Paribis, Lūšii, Elnių streets, and the benefits of this will be felt by even more Vilnius residents every day," said the mayor of Vilnius. [**Valdas Benkunskas**](https://madeinvilnius.lt/en/theme/estate-benkunskas/).

Several decades ago, the Geležinios Vilkas street collector was installed, which collects surface water **[waters](https://madeinvilnius.lt/en/horoscopes/%22%20%5Ct%20%22_blank)** from the 648 ha territory, which includes Baltupius, Fabijoniškes, Šeškinė, Pašilaičius, it became the most heavily loaded part of the Vilnius surface sewage network, as the city grew, it could no longer contain rainwater flows, therefore, during heavy rains, the water that erupted flooded the sections of the street at the intersection with Žalgiris street and in the lowlands below **[Constitution Avenue](https://madeinvilnius.lt/en/theme/constitution-prospectus/%22%20%5Ct%20%22_blank)** ring

In search of optimal solutions, the strategy with the least impact on the environment was chosen:

* [**Ukmergė st.**](https://madeinvilnius.lt/en/theme/ukmerges-street/) and Šiaurinė st. the distribution chamber installed at the intersection directs part of the rainwater flow through the newly installed Ozo Street pipeline;
* Ozo-Siesikai st. a new 3000 l/s surface wastewater treatment plant is being installed in the green zone;
* Cleaned water enters the storage tank, from which it is discharged after the rain at a regulated flow rate of 1000 l/s and reaches the Neris River through another route of surface sewage.

During the implementation of the project, the organization of work in an urbanized area was a big challenge. Ukmergė and Ozo streets in the capital have extremely intense traffic, and electricity, water supply and gas, domestic sewage and communication networks are intertwined under their surface. In order for the works to disrupt traffic as little as possible, underground drilling technology was used in these areas - for the first time in Lithuania, a pipeline with a diameter of 15 m was laid at a depth of 2,2 meters under these streets.

Surface wastewater treatment plant, installed in the green zone between [**Ozo str.**](https://madeinvilnius.lt/en/theme/ozo-st/) and Miglos St., capable of cleaning 3000 l/s. For comparison, in the summer, so much water flows through the Vilnius river per second. The treatment plant will clean the water discharged into Neris and thus ensure a stable ecosystem. The necessary infrastructure to service the treatment plant has also been installed, and above it there is a site with an amphitheater that can be used for community events.

There, near the treatment plant, there is a storage facility for treated surface wastewater. This territory was not maintained for a long time, so some of the residents of Vilnius did not even know about it. During the implementation of the project, the plot was arranged and adapted for residents' recreation. There is a children's playground, benches, and paths for both pedestrians and cyclists.

The project was developed by the specialists of the leading European engineering and architecture company "Sweco", the contract work was performed by UAB "Instita".

The water management project of the surface sewage networks, treatment plant and storage infrastructure of Geležinis Vilka street was evaluated as the best engineering communications project in the "Lietuvos BIM projektai 2021" awards.

The project was implemented with the funds of the EU cohesion funds, Vilnius City Municipality and Grinda company. Its value is 18,75 million. Eur. The contract duration is 22 months.

**In short**

Šeškinė-Geležinio Vilko str. rainwater drainage reconstruction is an exceptional project adapted to the needs of society, increasing biodiversity and reducing the risk of flooding caused by rain, unique in that it implements sustainable wastewater management solutions:

* after the newly installed surface sewage network directs part of the rainwater flow collected in the northern part of the city, the load on the networks built several decades ago is reduced and flooding in Geležinis Vilkos and Žalgiris streets is avoided;
* rainwater is cleaned in a newly installed 3000 l/s surface wastewater treatment plant;
* purified rainwater enters an artificially formed reservoir, which allows to reduce the instantaneous discharge of rainwater into sewage networks:
* part of the treated rainwater is naturally infiltrated into the ground, thus further reducing the load on the networks;
* walking paths, a children's playground, and an event space for the public are provided in the territory of the warehouse;
* enriched biodiversity: about 60 different types of vegetation, capable of cleaning residual micropollutants, have been planted in the water tank - in the pond, and around the pond - about 40 more.

**Figures and facts:**

* During the implementation of the project, 3,16 km of new main pipeline is laid.
* Ukmergės-Ozo str. the diameter of the newly laid pipeline is 2,2 m; maximum throughput - up to 9000 l/s.
* The surface wastewater treatment plant can clean a water flow of 3000 l/s - it is the largest capacity surface wastewater treatment plant installed in Vilnius.
* The maximum possible storage depth is 4 m, the minimum is 1 m.
* The purified rainwater reservoir has a capacity of 20 cubic meters. m of water. In case of natural rain, it would fill up in 000 minutes.
* Surplus water is released from the reservoir gradually, with an adjustable flow rate of 1000 l/s and subsides to the design level of 1 m in 5 h.
* The bottom and slopes of the warehouse are planted with 100 types of plants, which additionally clean the water and enrich the city's biodiversity.
* The project was implemented with the funds of the EU cohesion funds, Vilnius City Municipality and Grinda company. Its value is 18,75 million. Eur.