

The **Riachuelo System** is the infrastructure work which will enable us to provide a comprehensive solution to the sewage effluents transportation capacity limitations, improving service quality in a large part of the company's concession area and opening the way for future service expansion in the Southwest of the Province of Buenos Aires.

This system will have a major positive impact on the sustainability of the receiving rivers, introducing a concrete benefit in terms of public health and environment for the entire basin.



Riachuelo System



For further information or complaints about the works



Commercial Assistance
6333 - **AGUA** (2482)
Work days, 8 to 6 p.m.



Technical Assistance
0800 - 321 - **AGUA** (2482)
Every day, round the clock.



For further information,
visit our website
www.aysa.com.ar/sistema_riachuelo

#sistemariachuelo



Lo bueno del agua llega.

Argentina **unida**



Ministerio de Obras Públicas Argentina



Lo bueno del agua llega.



1,500
positions

of workers, technicians and professionals of different areas

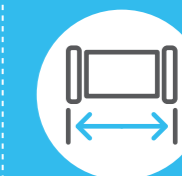
Once it starts operating, it will benefit

4,300,000
inhabitants



1,500
positions

of workers, technicians and professionals of different areas



Over
40 km
of tunnels

The works of the system

On the whole, the system is formed by collectors, a pretreatment plant, uplifting stations, pumping stations, and an outfall.

LEFT-MARGIN COLLECTOR

The Left-Margin Collector will be used to transport effluents coming from the served area in the South of the City of Buenos Aires and part of the Province of Buenos Aires. It will intercept flows from storm-water drainage and streams which discharge in the Riachuelo in dry weather, **allowing for alleviation of the Main Sewers** and introducing operating flexibility into the current transportation system.



diameter pipe jacking system, and the other one with a 3,200 mm-diameter TBM system (which was named Elisa), at a variable depth between 14 and 24 meters.

To build the collector, we used **two tunnelers** imported from Germany. **One of them works with an 800 mm-**

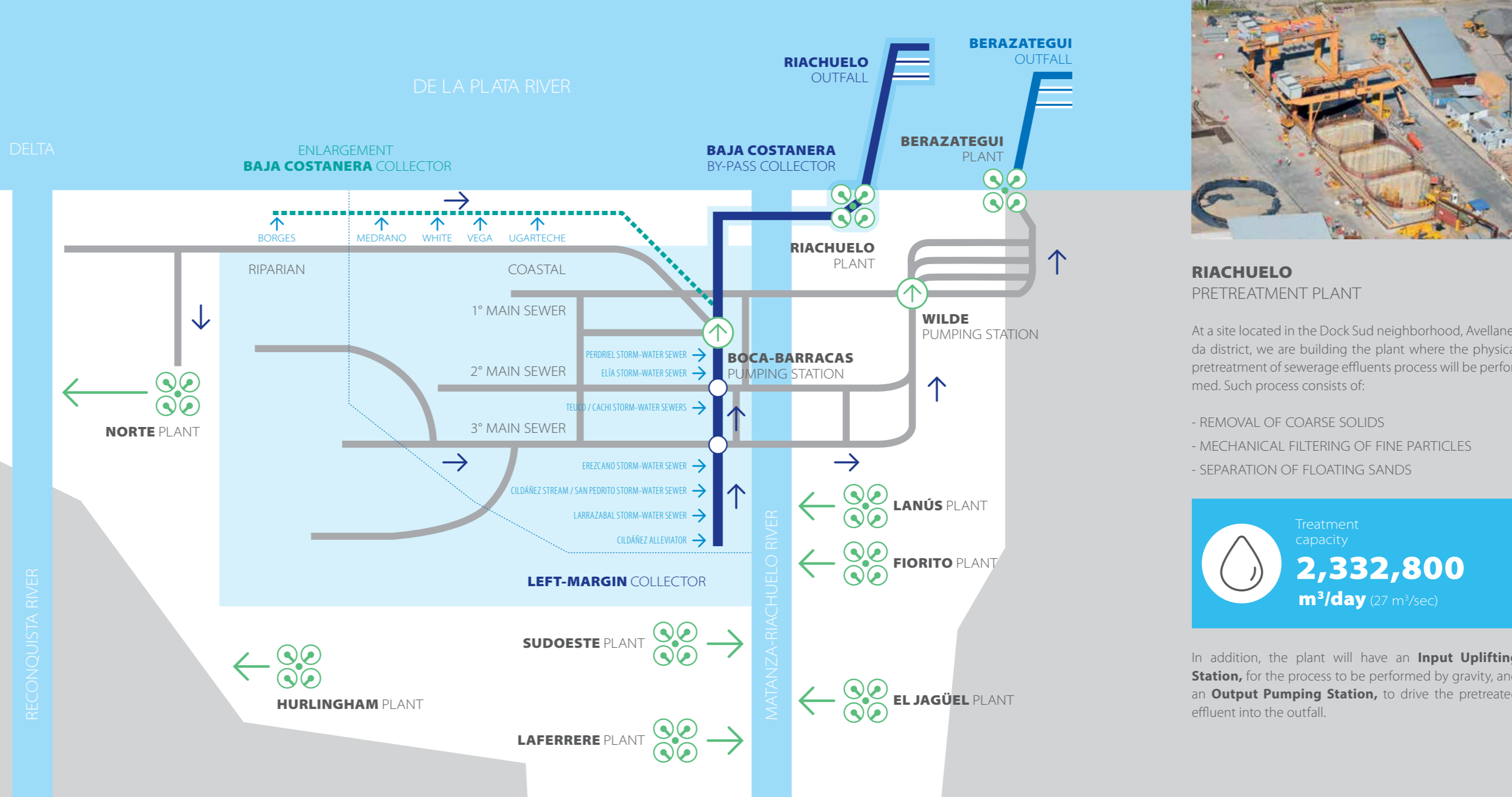


BAJA COSTANERA BY-PASS COLLECTOR

The Baja Costanera By-Pass Collector will transport the Left-Margin Collector effluents, from the current Baja Costanera Collector and the future enlargement of the Baja Costanera Collector to the Riachuelo pretreatment plant. **For these purposes, a 5,200 m-long tunnel was built at a variable depth between 24 and 34 meters.**

Total length of the tunnel
5,200 meters

DELTA



RIACHUELO PLANT OUTFALL

This outfall will allow for the correct disposal of the effluents treated in the De la Plata River, ensuring environmental quality in accordance with the levels established. Works were carried out in two stages.

The first stage has been completed. It included the construction of a **12 km tunnel beneath the river bed**, through navigation channels.

RIACHUELO PRETREATMENT PLANT

At a site located in the Dock Sud neighborhood, Avellaneda district, we are building the plant where the physical pretreatment of sewerage effluents process will be performed. Such process consists of:

- REMOVAL OF COARSE SOLIDS
- MECHANICAL FILTERING OF FINE PARTICLES
- SEPARATION OF FLOATING SANDS

Treatment capacity
2,332,800 m³/day (27 m³/sec)

In addition, the plant will have an **Input Uplifting Station**, for the process to be performed by gravity, and an **Output Pumping Station**, to drive the pretreated effluent into the outfall.

12 km of tunnel have been completed

The second stage, called Diffusion Stage, consisted in pipe jacking **34 stainless steel pipes (diffusers or risers) distributed within the last 1,500 m of the tunnel.** They were built vertically from the inside to the bed of the De la Plata River. **They are 30 meters high, separated approximately by a 45 - meter distance.**

Within the last **1,500 meters of the tunnel** **34 diffusers** have been built and mounted

