

## STUDY VISIT

**Blue-green infrastructures (storm water garden  
& rainwater ponds) in San Javier and  
Storm tank in the city of Torre-Pacheco.**

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# CONTEXT OF THE AREA

- Touristic municipalities surrounding **Salty Lagoon** called **Mar Menor**:
  - Distance <3 km (Salt content of 55 g/l and 4-6° of T° > Mediterranean sea) → Unique ecosystem but also very vulnerable.
- High pressure of the **touristic sector and agricultural** activity
- **Catchment Area weakly defined**: Heavy rains can modify the overflow direction.
- **Water table very superficial** and with saltwater marine intrusion.

# CONTEXT OF THE AREA

## Main goals

- Avoid 1st flush flow reaches vulnerable water bodies.
- To reduce overflow.

## Features

- They're complementary → Overflow reduction → close to the beginning of the catchment basin.
- High effectiveness reducing 1st flush flow pollution



1h 31m

22 h

6 h

- C. Cartagena, 80, 30002 Murcia
- Av. Patrulla Águila, 30720 Santiago de la
- E.D.A.R. San Javier., Paraje los buenos, 20
- E.D.A.R. Torre-Pacheco., Diseminado Oln
- C. Cartagena, 80, 30002 Murcia

⊕ Añadir destino

Opciones

Enviar indicaciones al teléfono

Copiar enlace

por A-30 y RM-19  
1 h 32 min sin tráfico

1 h 32 min  
114 km

Detalles



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Stop 1: Raingarden

Stop 2: Detention / Retention Pond

Stop 3: Storm tank in CSS

# CONTENT OF THE VISIT

## Separative networks

- **1<sup>st</sup> Stop** → San Javier → Raingarden that only collects rainwater.
  - Reduction the visual impact of the facilities and social perception
  - Maintenance of these facilities
  
- **2<sup>nd</sup> Stop** → San Javier WWTP → Detention/Retention catchment basin
  - Triple function:
    - 1) Reduce overflow
    - 2) Improvement of the WWTP management
    - 3) Utilization for agricultural purposes.

# CONTENT OF THE VISIT

## Combine Sewer System (CSS) or Unitary networks

- **3<sup>rd</sup> Stop** → Torre-Pacheco → Storm Tank in 2 steps:
  1. Pre- tank with autocleaning
  2. Pond to save water before entrance to the WWTP
  
- **Goals of the facility:**
  - Avoid discharges of the flow excess without any treatment to the Mar Menor
  - ↓ maintenance costs

# CONTENT OF THE VISIT

**On the spot, we deal with several related issues of the facilities for example:**

- Social rejection of some facilities based on citizens experience in the area.
- Management of superficial water table and salty.
- SuDS are a key point for building Water Resilience but their difficulties to implement in older cities



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**Thank you!**