



## Measurements and forecasts

**RM 39:** Saltwater wedge has reached the submarine sill location.

**RM 19 to 24:** Projected location where surface chloride levels expected to exceed 250 parts per million.

**RM 7:** If forecasted conditions hold, projected location of the saltwater wedge in 10 days.

**RM 28.4:** Projected river mile for the toe of the saltwater wedge if forecasted conditions for the next 28 days are realized.

Saltwater Intrusion Measurements and Forecasts, USACE 19 NOV 24

## OPERATIONAL RHYTHM

**Parish and ESFs SITREPS Due:** Thursdays at 1200

**SITREP Published:** Final SITREP for this incident.

- GOHSEP will continue to monitor the situation and if any further development, will begin producing SITREPs again

## INCIDENT OVERVIEW

**WebEOC Incident:** 24-031 Saltwater Intrusion - Region 1 – Aug

**Activation Level:** Crisis Action Team

**USACE Saltwater Markers:**

- Current estimated location of saltwater toe: River Mile 39 (as of 11/19)
- Location of USACE underwater sill barrier: River Mile 63.7

## INCIDENT OBJECTIVES

- Support water supply needs of citizens
- Coordinate and manage all available resources during event
- Maintain ongoing communication to keep public and stakeholders informed

## WEATHER

- Rain over the past 7 days provided some beneficial run-off for the Mississippi River
- The extended rainfall outlook is optimistic for adequate rain to keep the Lower Mississippi River stages near-normal to above-normal into early to mid-December

**Trend Legend:**

- ↑ Improvement Noted
- ↓ Worsening Situation
- No Change

**Lifeline Color Description:**

- Green (GN)** – Minor disruptions or limitations to the community
- Yellow (YL)** – Disruptions affect delivery of services and resources
- Red (RD)** – Severe challenges and obstacles hindering essential services
- Grey (GR)** – Unknown status



Lifelines Summary	
<b>Water Systems</b>	<p><b><u>LDH Engineering:</u></b></p> <ul style="list-style-type: none"> <li>Continuing to monitor the situation</li> </ul> <p><b><u>Plaquemines</u></b></p> <ul style="list-style-type: none"> <li>Chloride levels trended down significantly for PALH and Port Sulphur</li> <li>Boothville: Chloride range 850-470mg/l in the past week, finished water averaged 92.5 mg/L; Ro system is fully running and processing water as needed. Water is blended with Port Sulphur; RO unit to remain on site for the near future</li> <li>Pointe a la Hache: Chloride levels fell from 153-48 mg/L, finished levels averaged 109 mg/L; RO processing was not required last week, intend to demobilize RO based on USACE projections</li> <li>Port Sulphur: fell from 150-50 mg/L; finished chlorides averaged 68 mg/L, RO processing was not required for the last week, intend to demobilize ROs based on USACE projections, water is blended with Belle Chasse</li> <li>The RO contractor has been tasked to begin demobilization at PS and PALH</li> </ul> <p><b><u>St. Bernard</u></b></p> <ul style="list-style-type: none"> <li>Monitoring the situation from week to week</li> </ul> <p><b><u>Jefferson</u></b></p> <ul style="list-style-type: none"> <li>Monitoring the situation from week to week</li> </ul> <p><b><u>Orleans</u></b></p> <ul style="list-style-type: none"> <li>Monitoring the situation from week to week</li> </ul> <p>See slide on page 3 for USACE predicted impact dates of water systems</p>

Lifelines Summary	
Energy	<ul style="list-style-type: none"> <li>No reports of incidents</li> </ul>
Safety and Security	<ul style="list-style-type: none"> <li>No reports of incidents</li> </ul>
Food, Hydration, Shelter	<ul style="list-style-type: none"> <li>No water distribution points related to saltwater intrusion at this time</li> </ul>
Health and Medical	<p><b><u>ESF 8</u></b></p> <ul style="list-style-type: none"> <li>Critical infrastructure intact with no disruption of services. Monitoring the situation at this time.</li> </ul>
Cyber/Comms	<ul style="list-style-type: none"> <li>No reports of incidents</li> </ul>
HazMat	<ul style="list-style-type: none"> <li>No reports of incidents</li> </ul>
Transportation	<ul style="list-style-type: none"> <li>No reports of incidents</li> </ul>



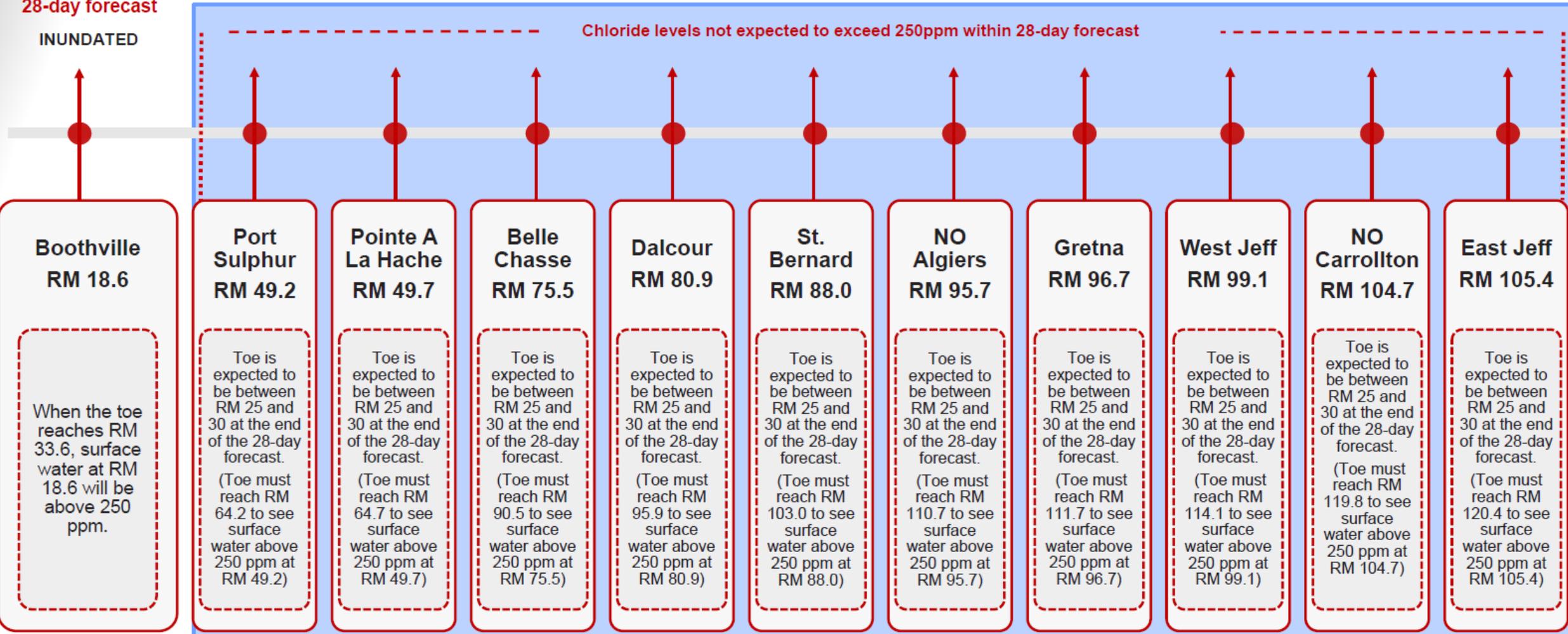
# SALTWATER WEDGE TIMELINE - WITH UNDERWATER BARRIER SILL



U.S. ARMY TIMELINE REPRESENTS CURRENT NWS FORECAST AND SURVEYED MOVEMENT OF THE SALTWATER TOE

Chloride levels expected to exceed 250ppm within the 28-day forecast

DATES ARE OUTSIDE OFFICIAL NATIONAL WEATHER SERVICE LOWER MISSISSIPPI RIVER 28-DAY FORECAST



PROJECTED TIMELINE IS ACCURATE AS OF THE NWS FORECAST FOR 18 NOV 2024 AND IS SUBJECT TO CHANGE.

AS OF 19NOV2024