

US Army Corps of Engineers Saltwater Wedge Map (as of 10/8/2024)

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 63.2 (as of 10/8)
- Location of USACE underwater sill barrier: River Mile 63.7

INCIDENT OBJECTIVES

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

WEATHER

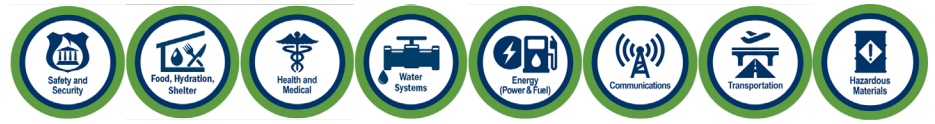
- Forecast is that the saltwater toe could be pushed back 5 river miles from surge of freshwater from Hurricane Helene precipitation that will arrive in the next few days
- After the surge the River stages are still forecasted to resume declining trend for next 30 days
- Precipitation for the next 30-90 days is expected to be normal or below average

OPERATIONAL RHYTHM

Parish and ESFs SITREPS Due: Wednesdays at 1200

SITREP Published: Wednesdays at 1400

Trend Legend:	Lifeline Color Description:
↑ Improvement Noted	Green (GN) – Minor disruptions or limitations to the community
↓ Worsening Situation	Yellow (YL) – Disruptions affect delivery of services and resources
→ No Change	Red (RD) – Severe challenges and obstacles hindering essential services
	Grey (GR) – Unknown status



Lifelines Summary	
Water Systems ↓	<p><u>LDH Engineering:</u></p> <ul style="list-style-type: none"> Working with the Parish, State and Federal partners to facilitate permitting of the reverse osmosis treatment systems and barging operations Conducting water testing operations for Reverse Osmosis Purification Units (ROPU) <p><u>Plaquemines</u></p> <ul style="list-style-type: none"> See slide on page 3 for USACE predicted impact dates of water systems Working with Corps for water model Boothville: Chloride levels fluctuated between 620 to 570 mg/l in the past week, finished water averaged 80 mg/l Pointe a la Hache: Chloride levels at ranged from 237-164 mg/l, finished levels averaged 147 mg/l Port Sulphur: Port Sulphur raw water fluctuated from 168 to 122 mg/l; finished chlorides averaged 107 mg/l ROPUs: <ul style="list-style-type: none"> Boothville ROPU is fully running and processing water as needed. Water is blended with Port Sulphur reservoir water. Pointe a la Hache ROPU system is fully running and processing water as needed. Port Sulphur: One ROPU spread is processing water as need. The second ROPU failed tests again last week, awaiting results from earlier this week. Water is blended with Belle Chasse reservoir water. <p><u>St. Bernard</u></p> <ul style="list-style-type: none"> Monitoring the situation from week to week <p><u>Jefferson</u></p> <ul style="list-style-type: none"> Monitoring the situation from week to week <p><u>Orleans</u></p> <ul style="list-style-type: none"> Monitoring the situation from week to week

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



SALTWATER WEDGE TIMELINE - WITH UNDERWATER BARRIER SILL

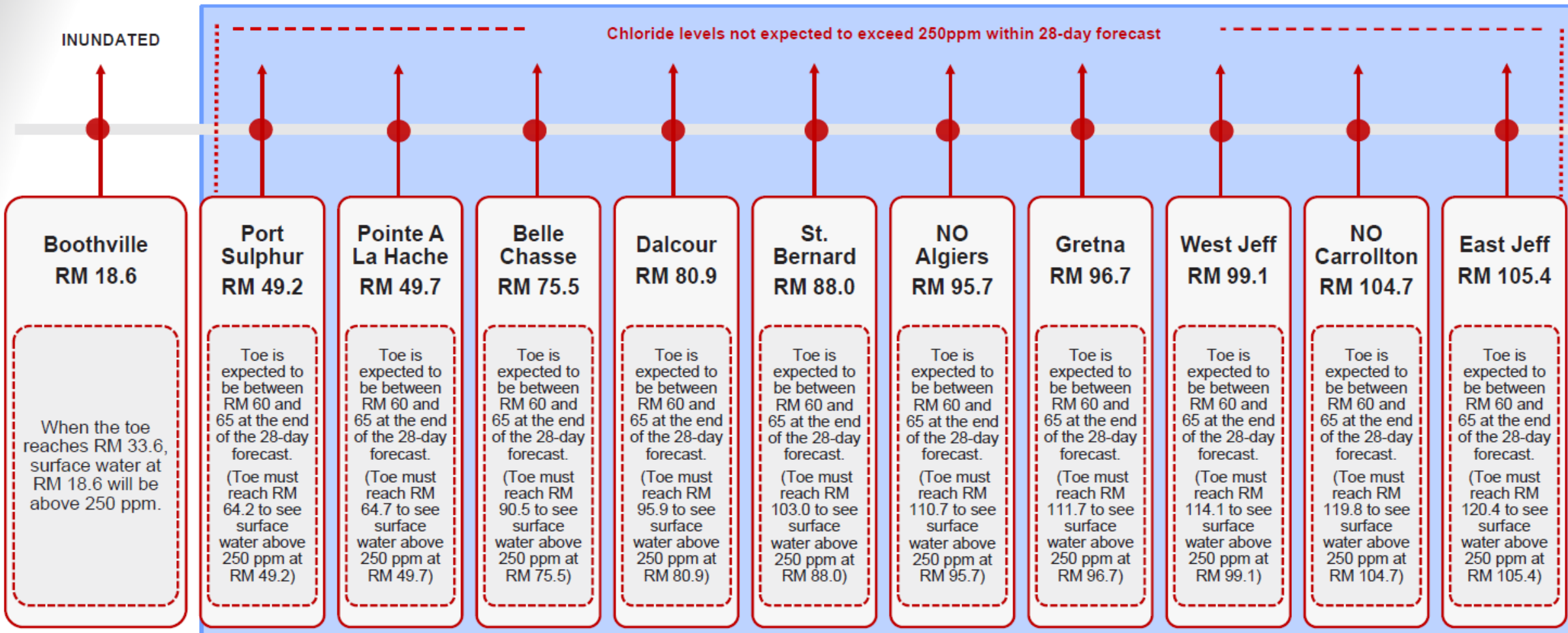


U.S. ARMY

TIMELINE REPRESENTS CURRENT NWS FORECAST AND SURVEYED MOVEMENT OF THE SALTWATER TOE

Chloride levels expected to exceed 250ppm through 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 04 OCT 2024 AND IS SUBJECT TO CHANGE.

AS OF 08OCT2024