

## **Katrina - Scenario B2: Flooding in St. Bernard Parish**

- As depicted in the next set of slides (Figures 34-36), the maximum water elevations in the Lower Ninth Ward and in St. Bernard Parish west of Paris Road in Scenario B2 vary little from the maximum flooding levels modeled in Scenario B1, and are only a few feet lower than those experienced during the actual Hurricane Katrina event.
- East of Paris Road, maximum water elevations in Scenario B2 are more significantly diminished relative to Scenario B1, and are similar to the flood levels modeled for these areas in Scenario A1.
- These results again reflect the greater influence of the Reach 2 levee breaches on the flooding that actually took place east of Paris Road, where the 40 Arpent levee overtopped along much of its length with water flowing through the Central Wetlands through the Reach 2 breaches.
- The B2 Scenario modeling results also confirm that significant flooding would have taken place throughout the Lower Ninth Ward and the portion of St. Bernard Parish west of Paris Road during Hurricane Katrina even absent the Reach 2 levee breaches, and even with MRGO at its original completed dimensions and the surrounding wetlands in their 1956 condition.

**Maximum B2**

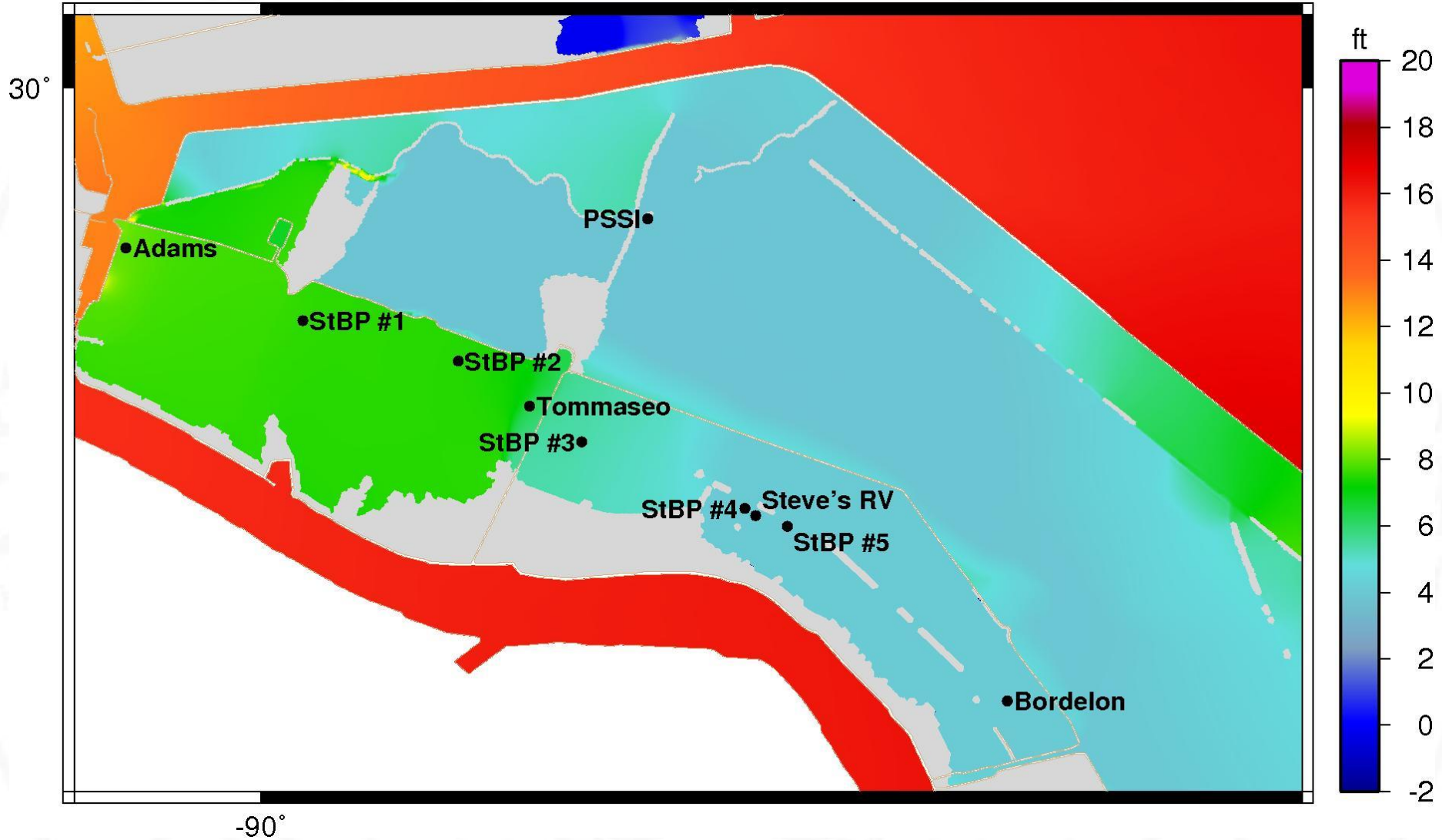


Figure 34

### Maximum A2

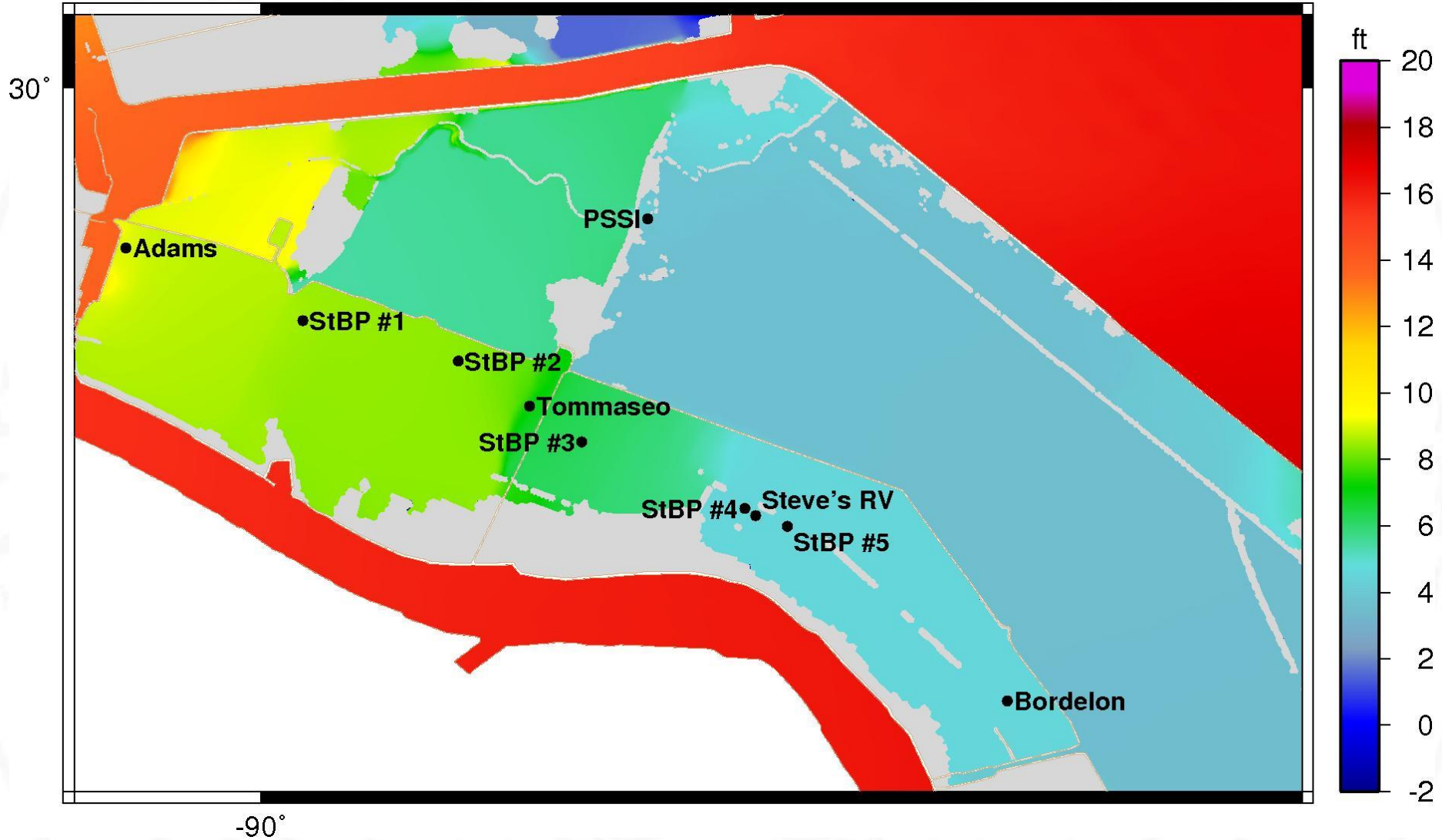


Figure 35

**Maximum A2 less Maximum B2**

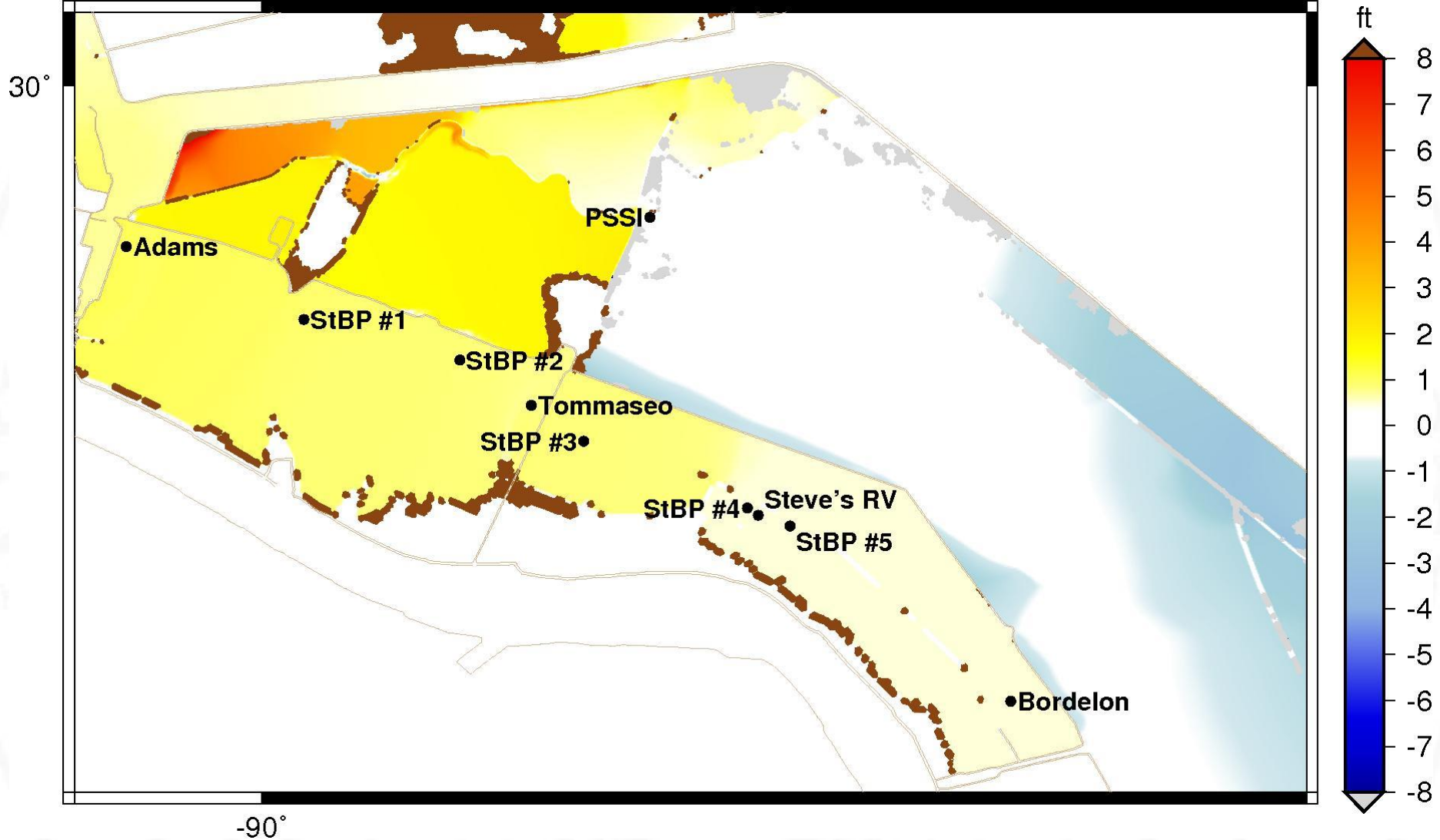


Figure 36

## Properties

- The following hydrographs depict the maximum flood elevations and the timing of the flooding at each Trial Property in Scenarios A1 (red), A2 (green), B1 (blue) and B2 (pink).
- The hydrographs also indicate the geographic location of each Trial Property inside the Polder.

Case 2:05-cv-01119-SGB Document 241-10 Filed 11/12/13 Page 6 of 17

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

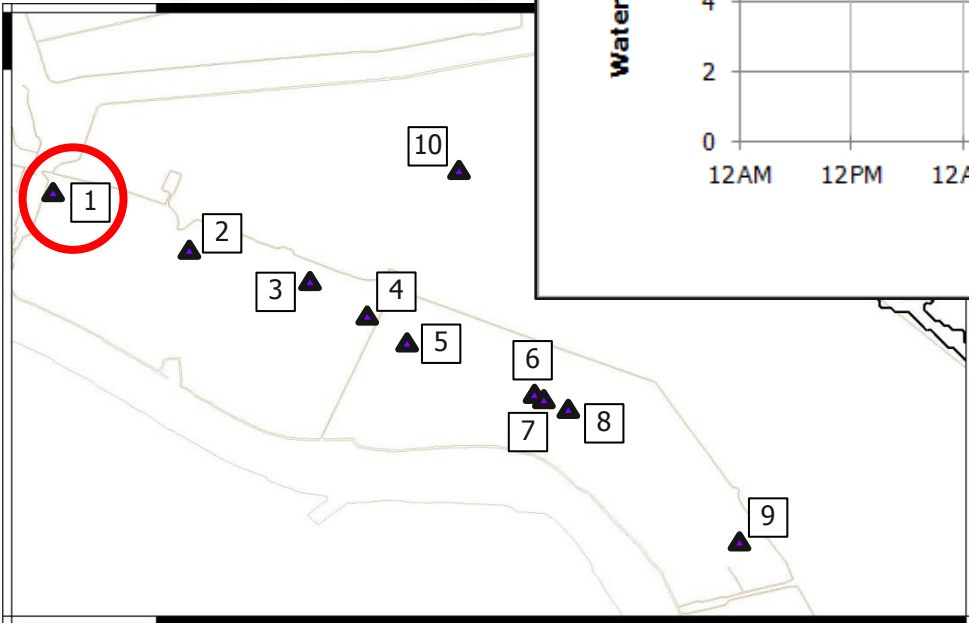
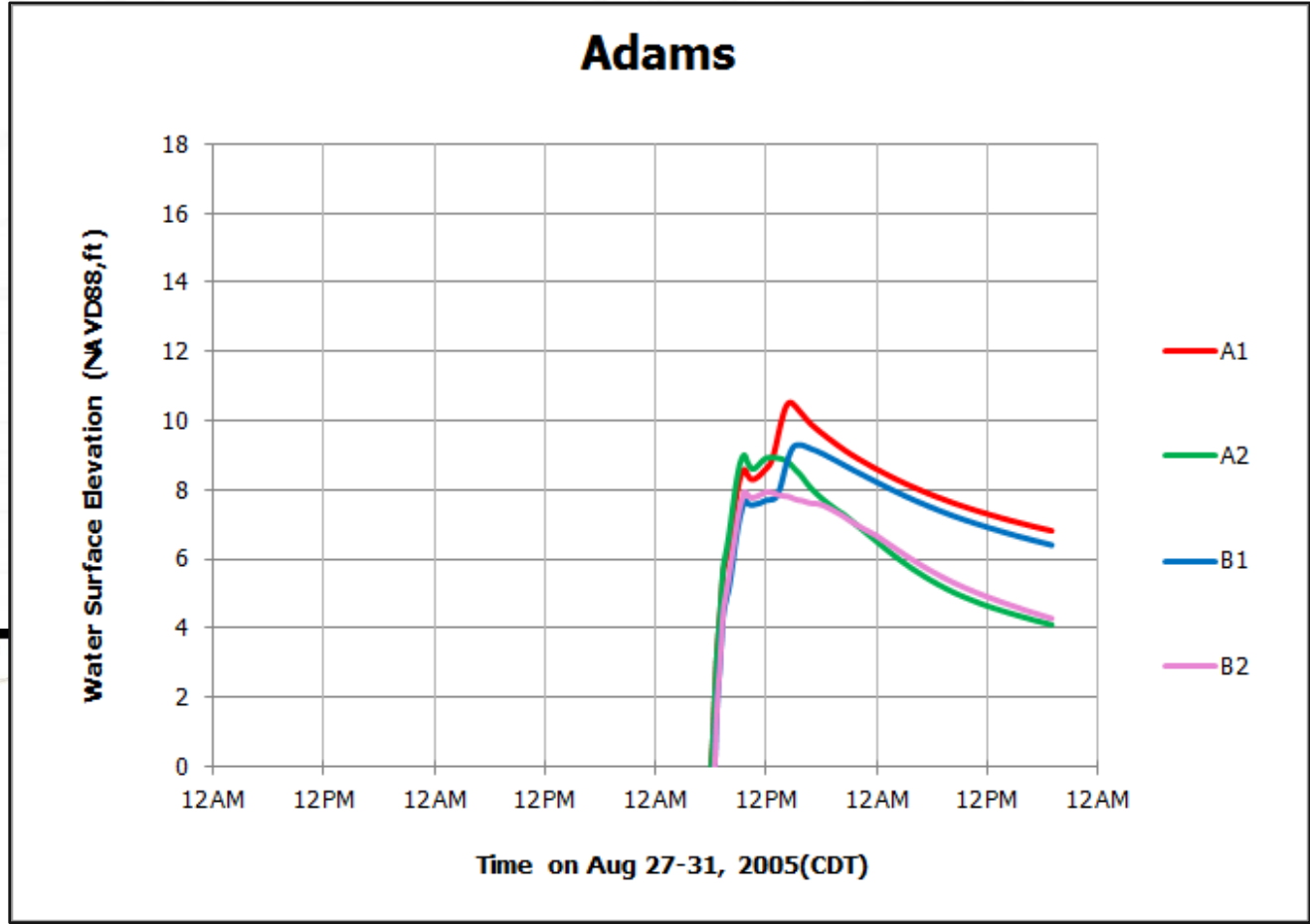


Figure 37a

Case 2:05-cv-01119-SGB Document 241-10 Filed 11/12/13 Page 7 of 17

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

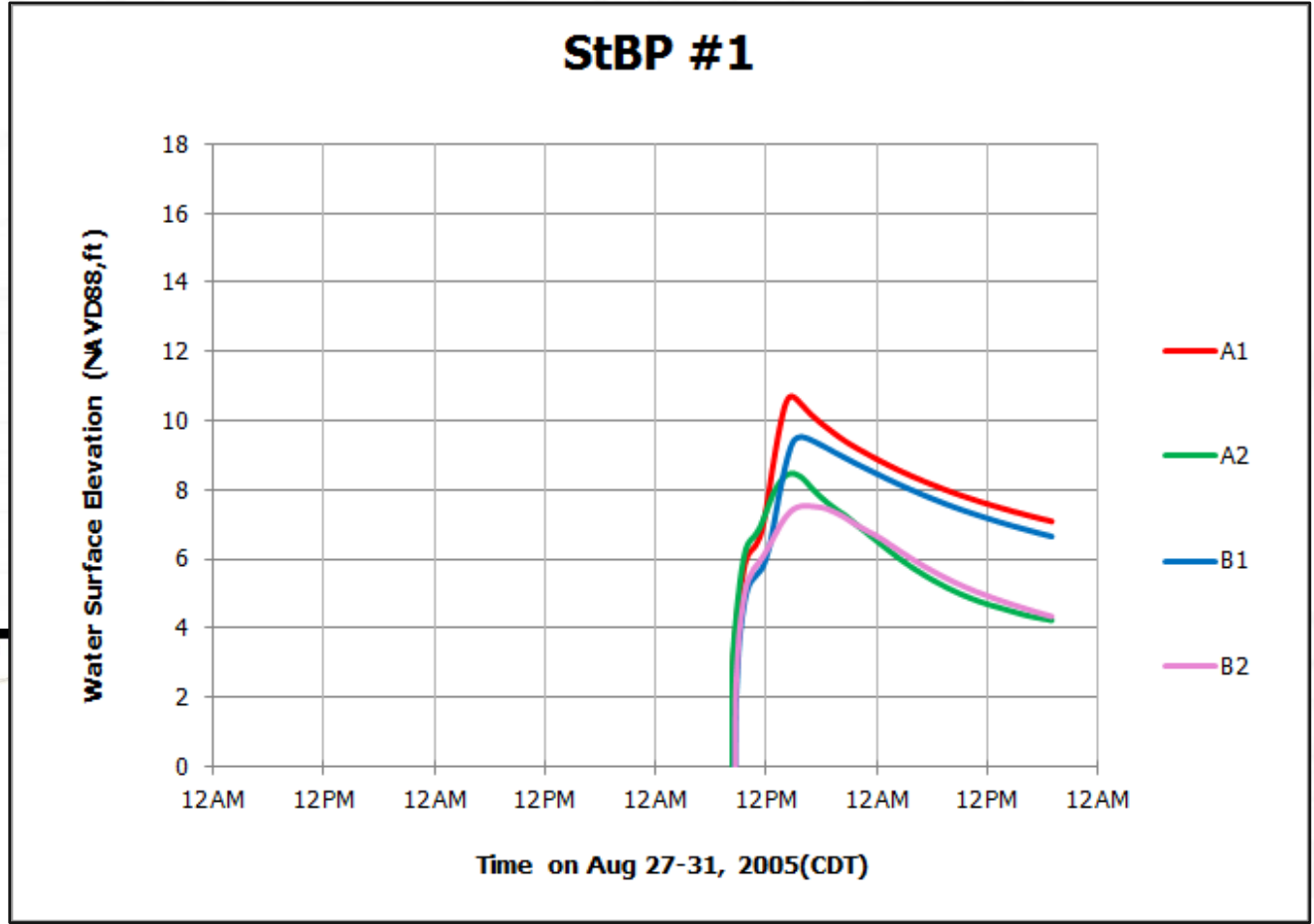
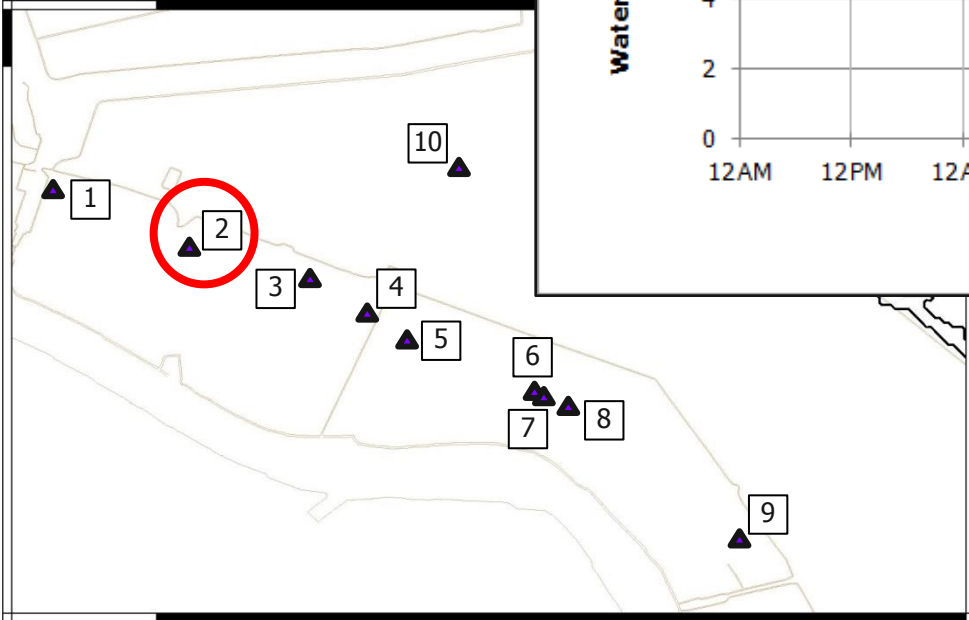


Figure 37b



Case 2:05-cv-01119-SGB Document 241-10 Filed 11/12/13 Page 8 of 17

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

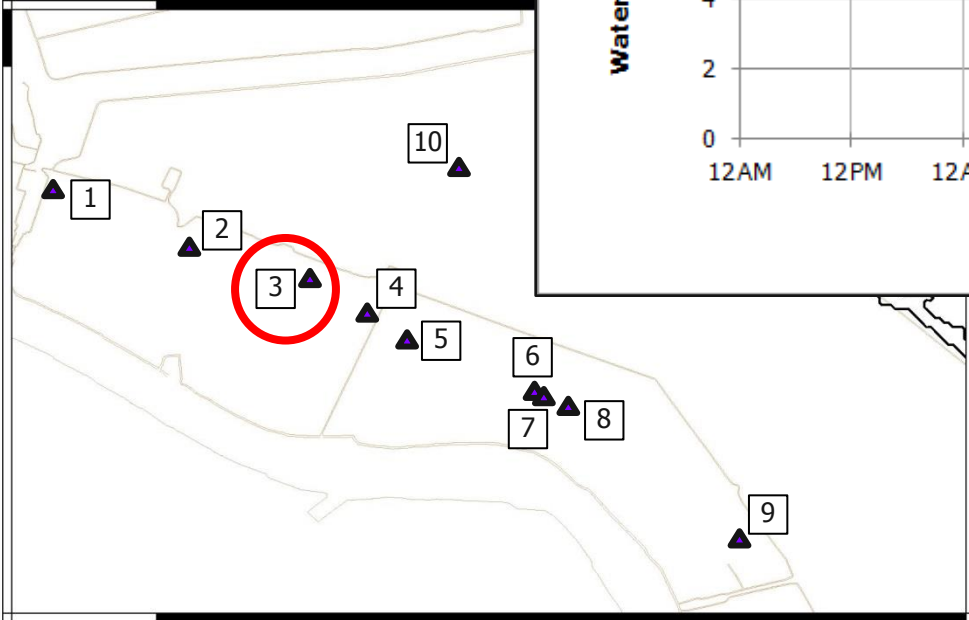
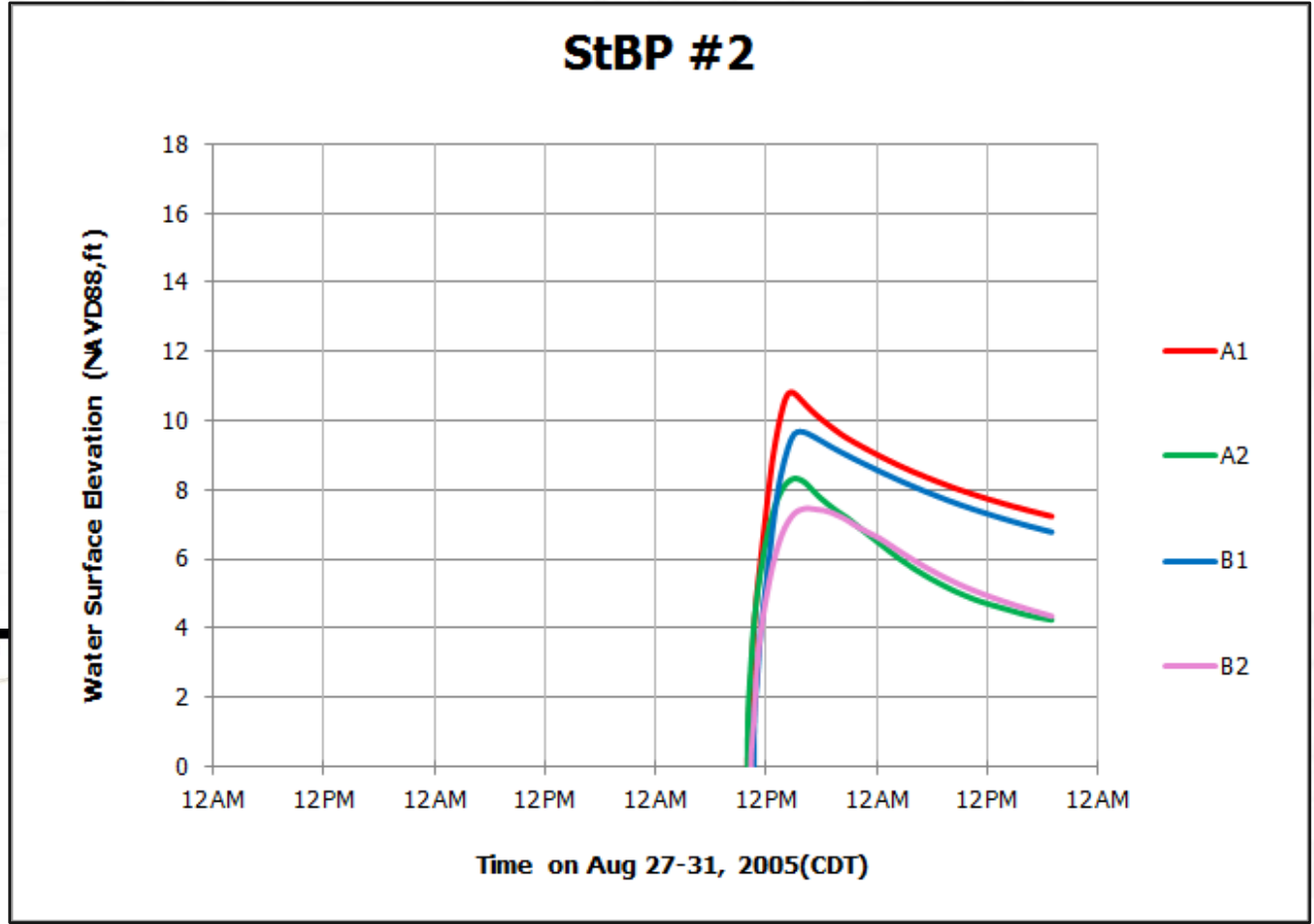


Figure 37c



Case 2:05-cv-01119-SGB Document 241-10 Filed 11/12/13 Page 9 of 17

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

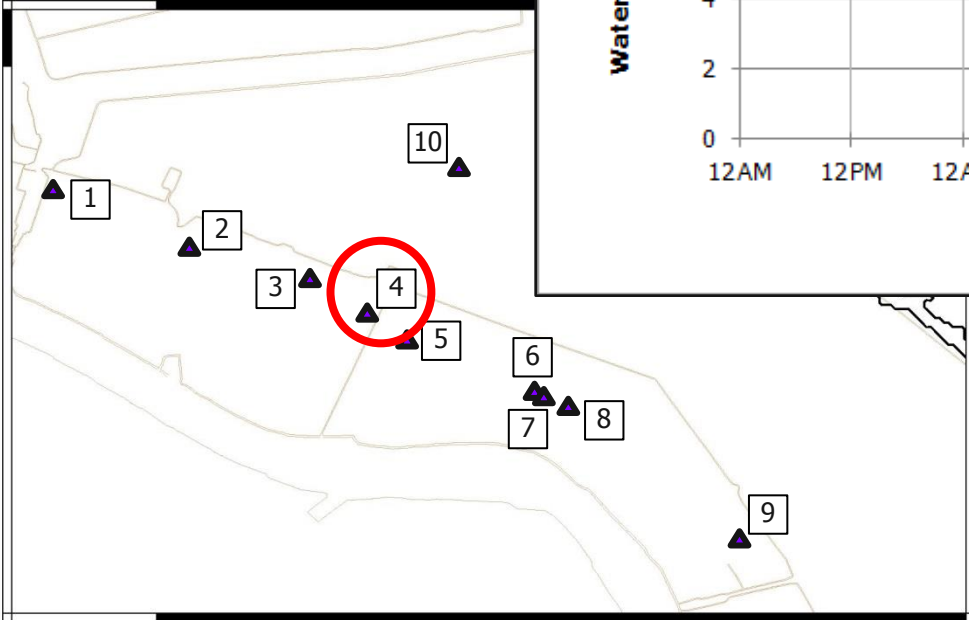
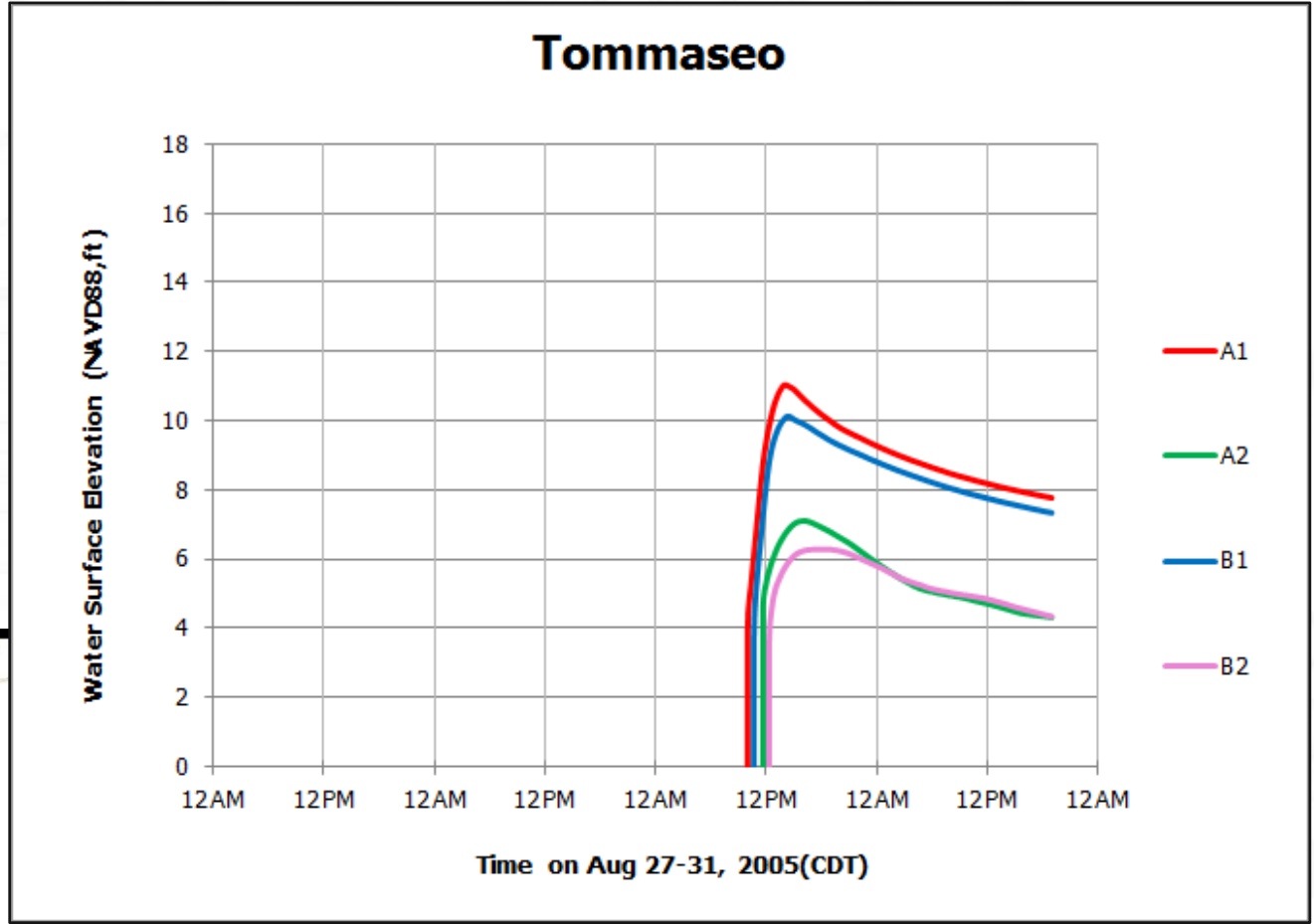


Figure 37d

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

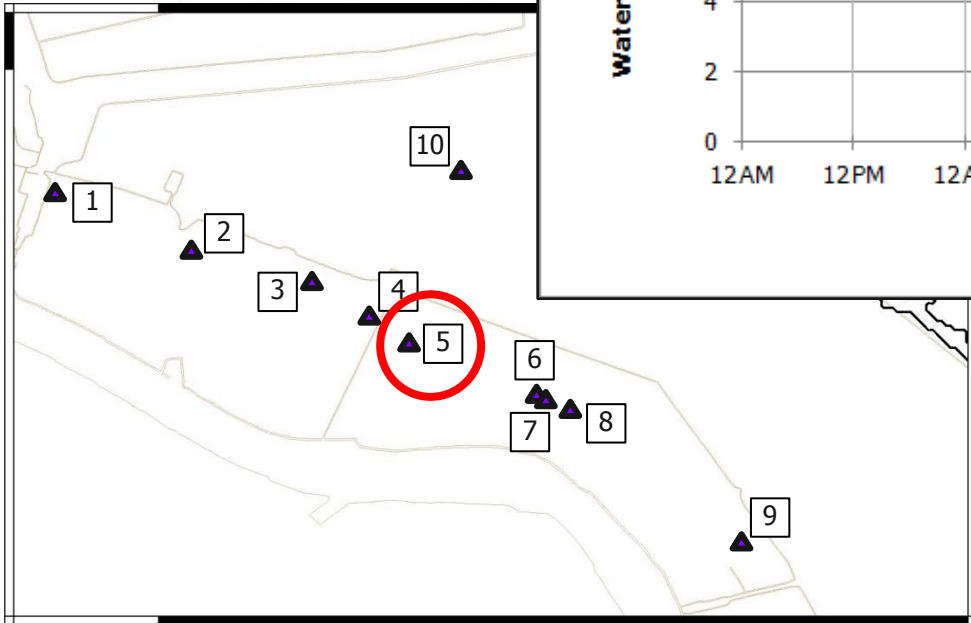
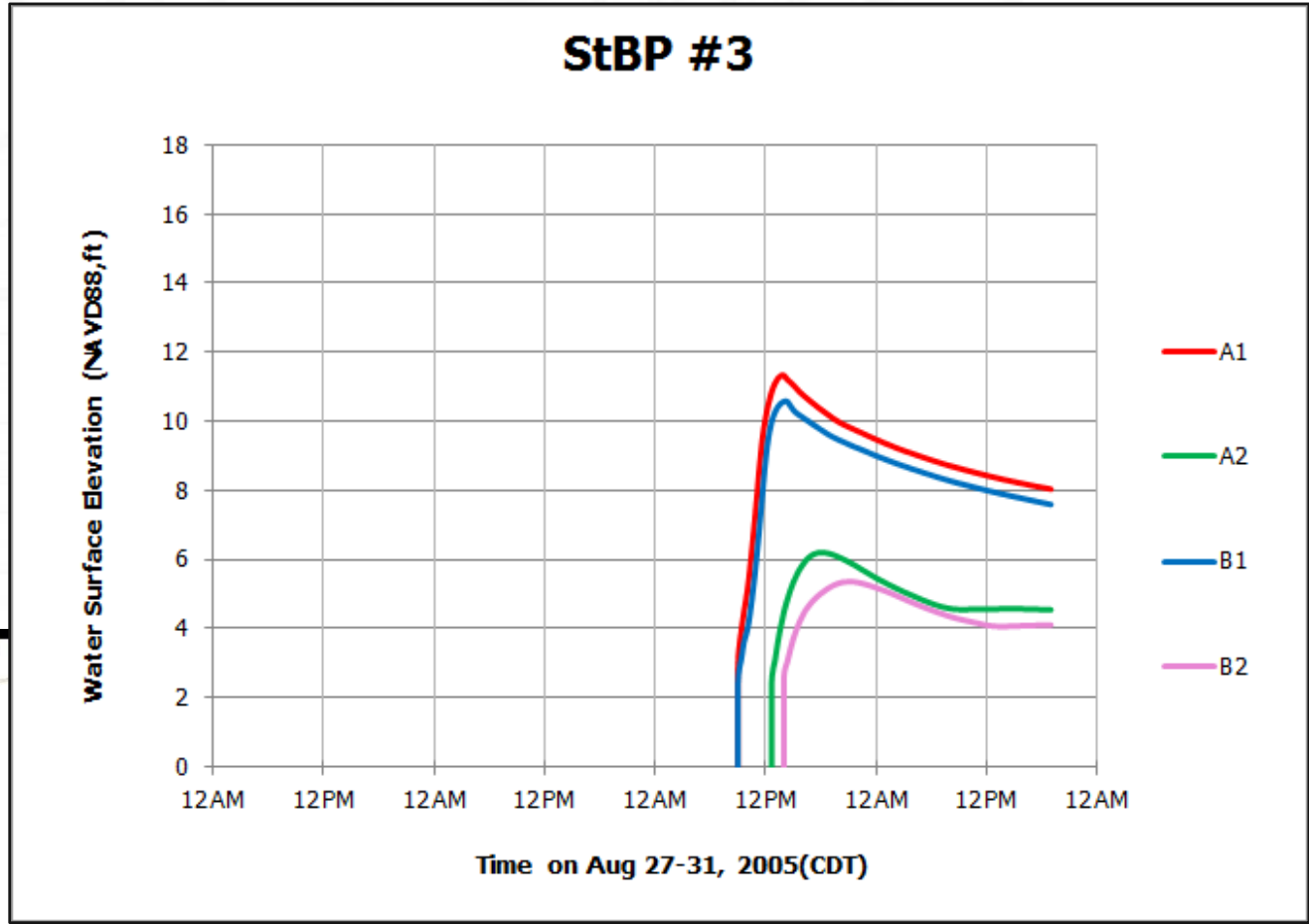


Figure 37e

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

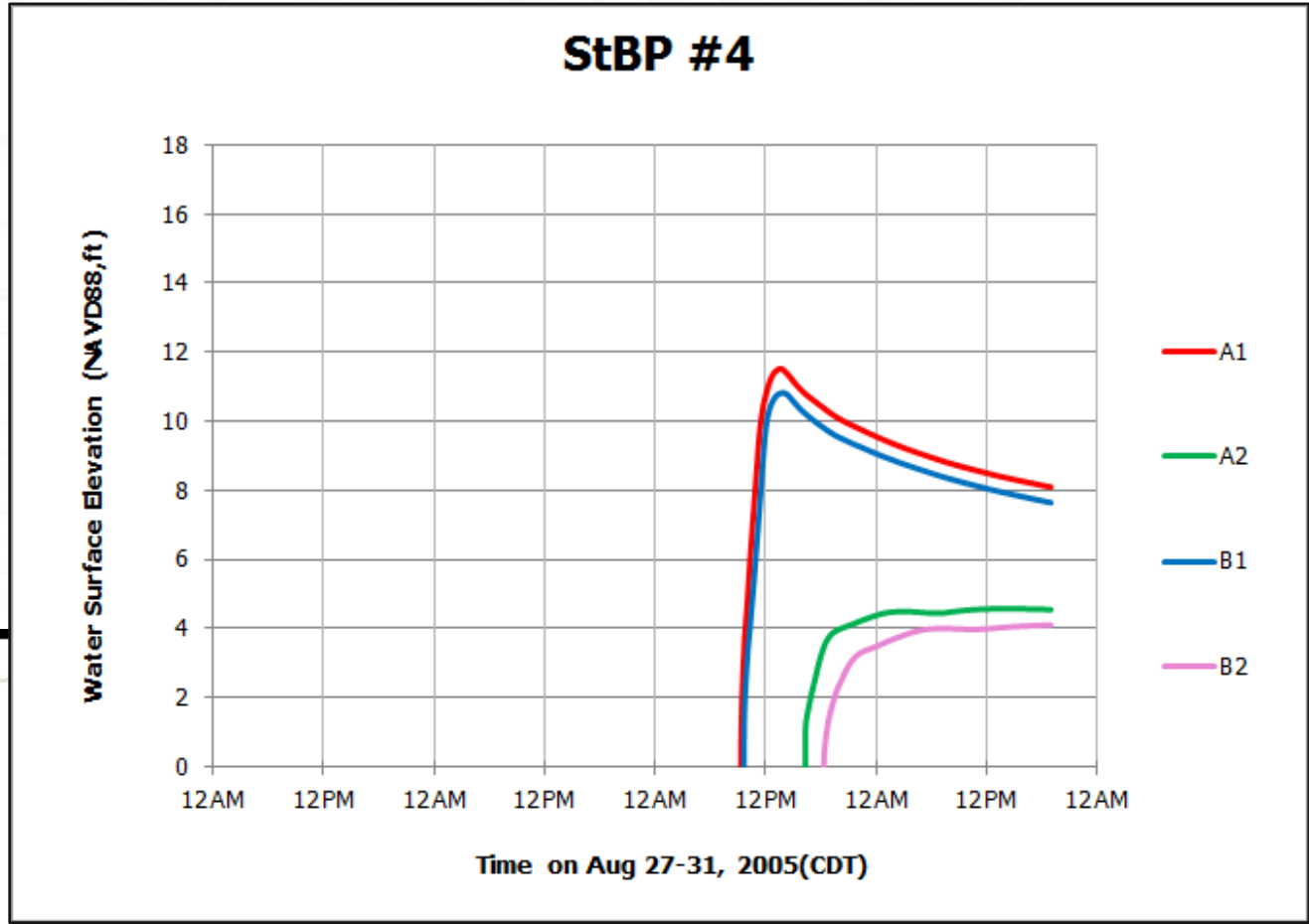
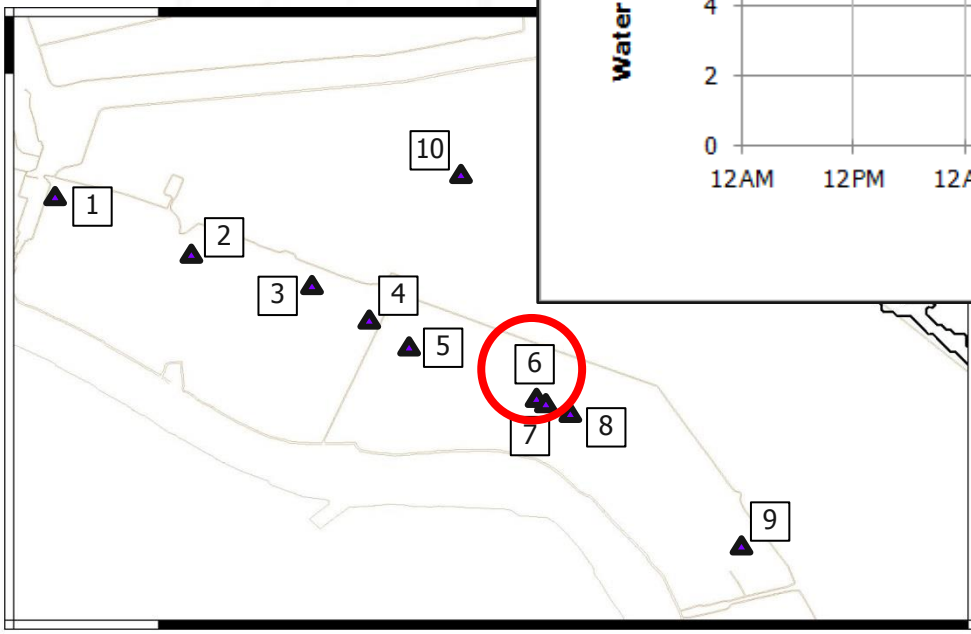


Figure 37f



-90°

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

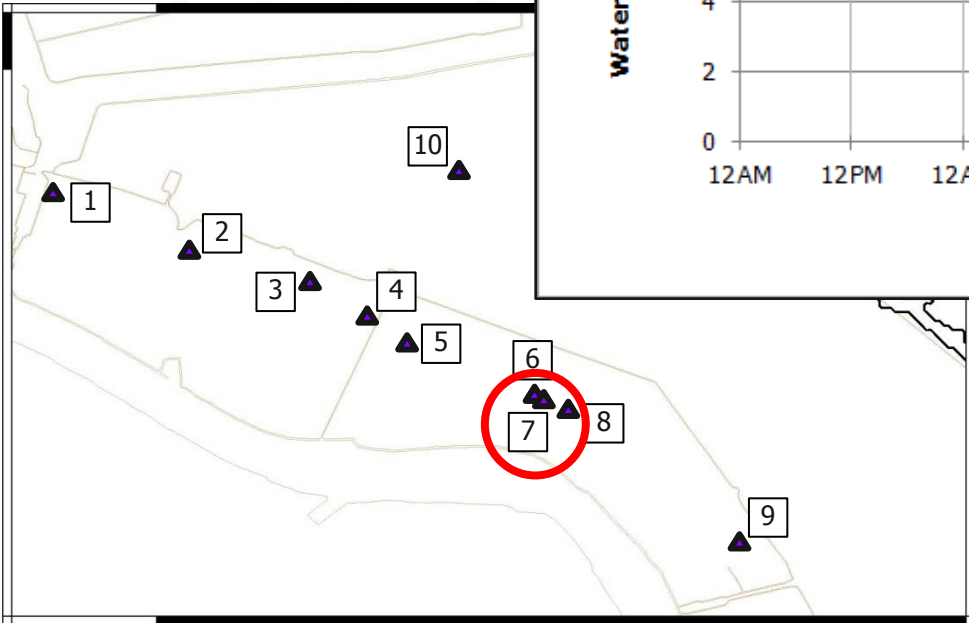
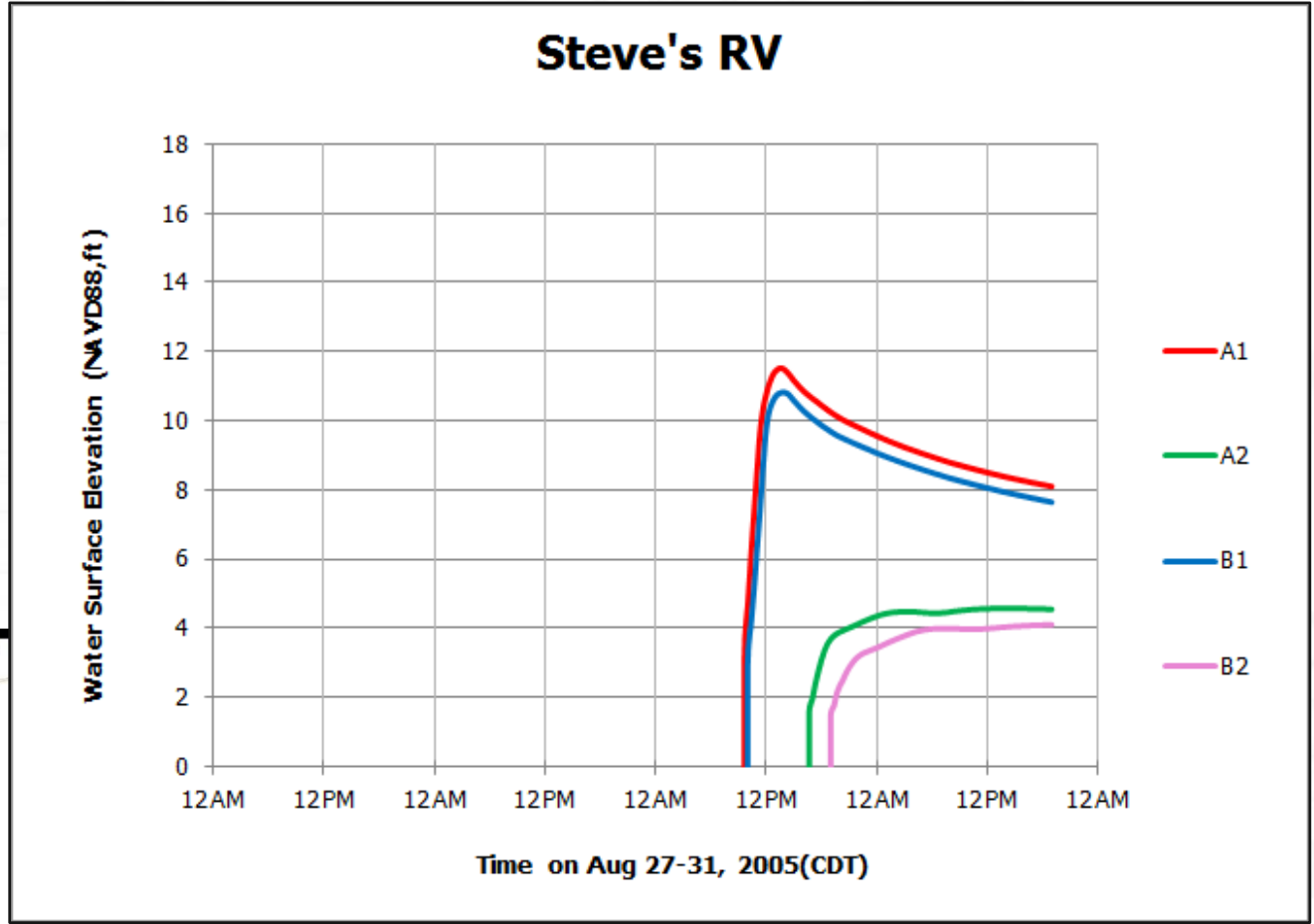


Figure 37g

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

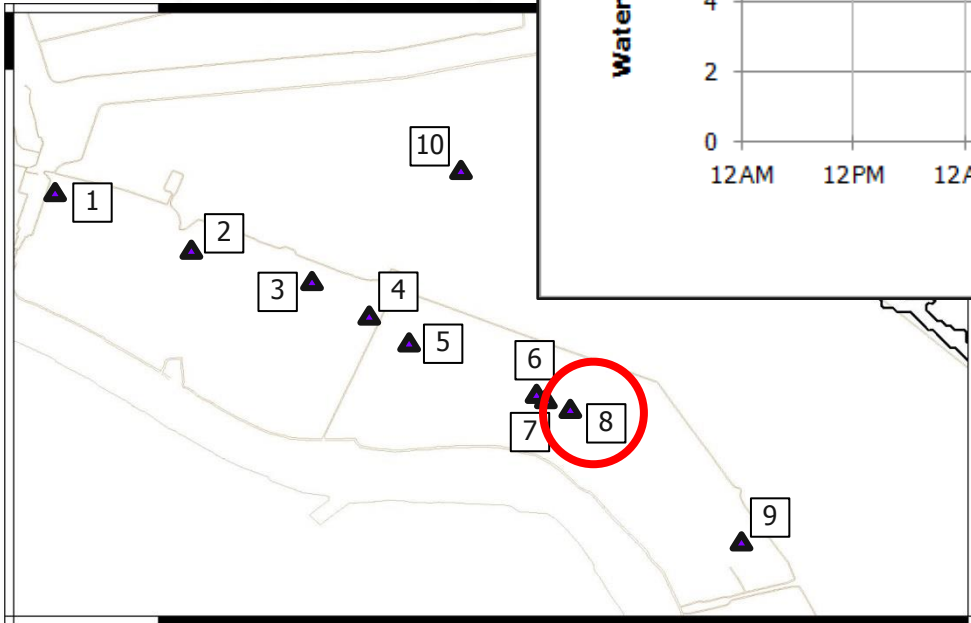
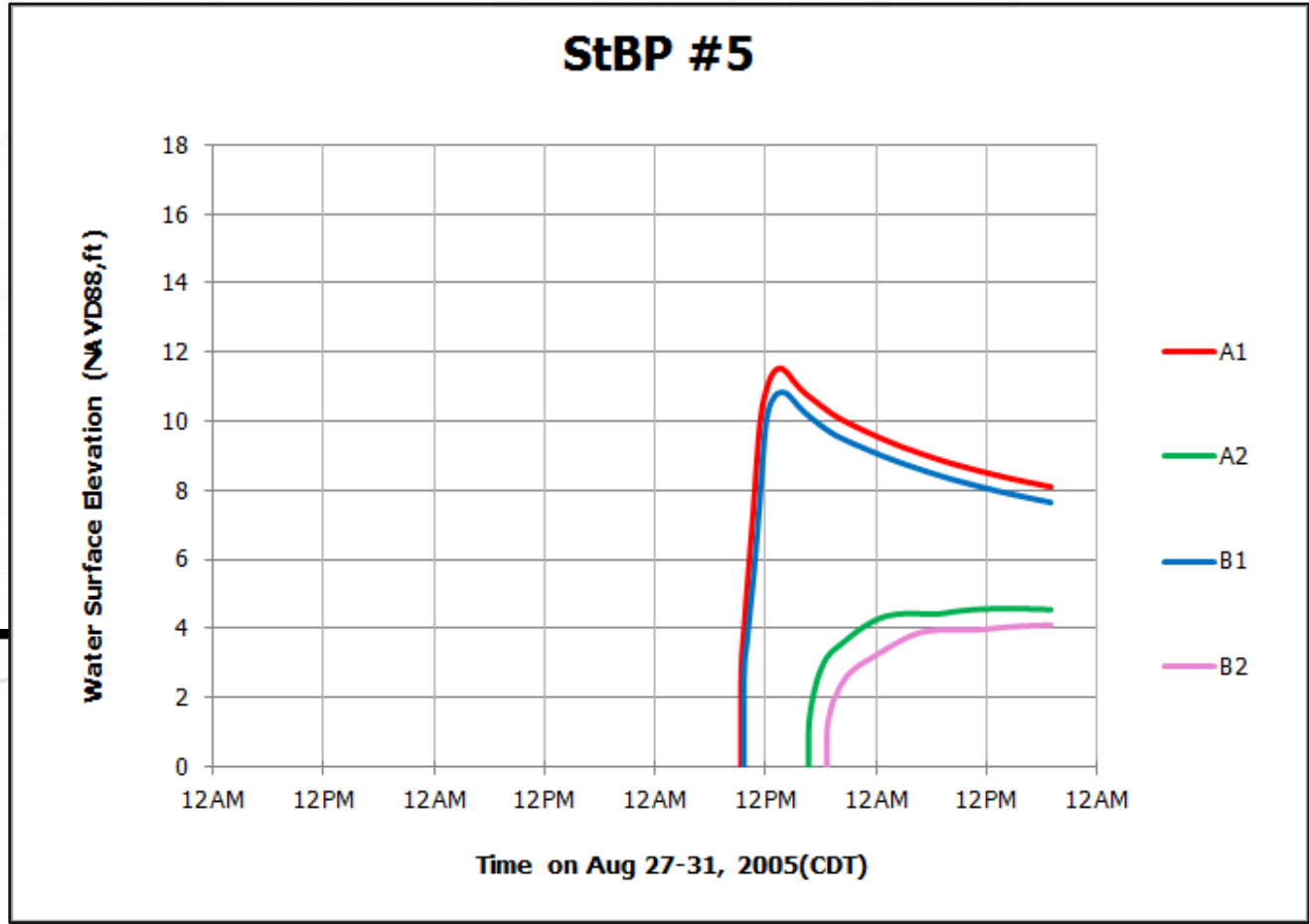


Figure 37h

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

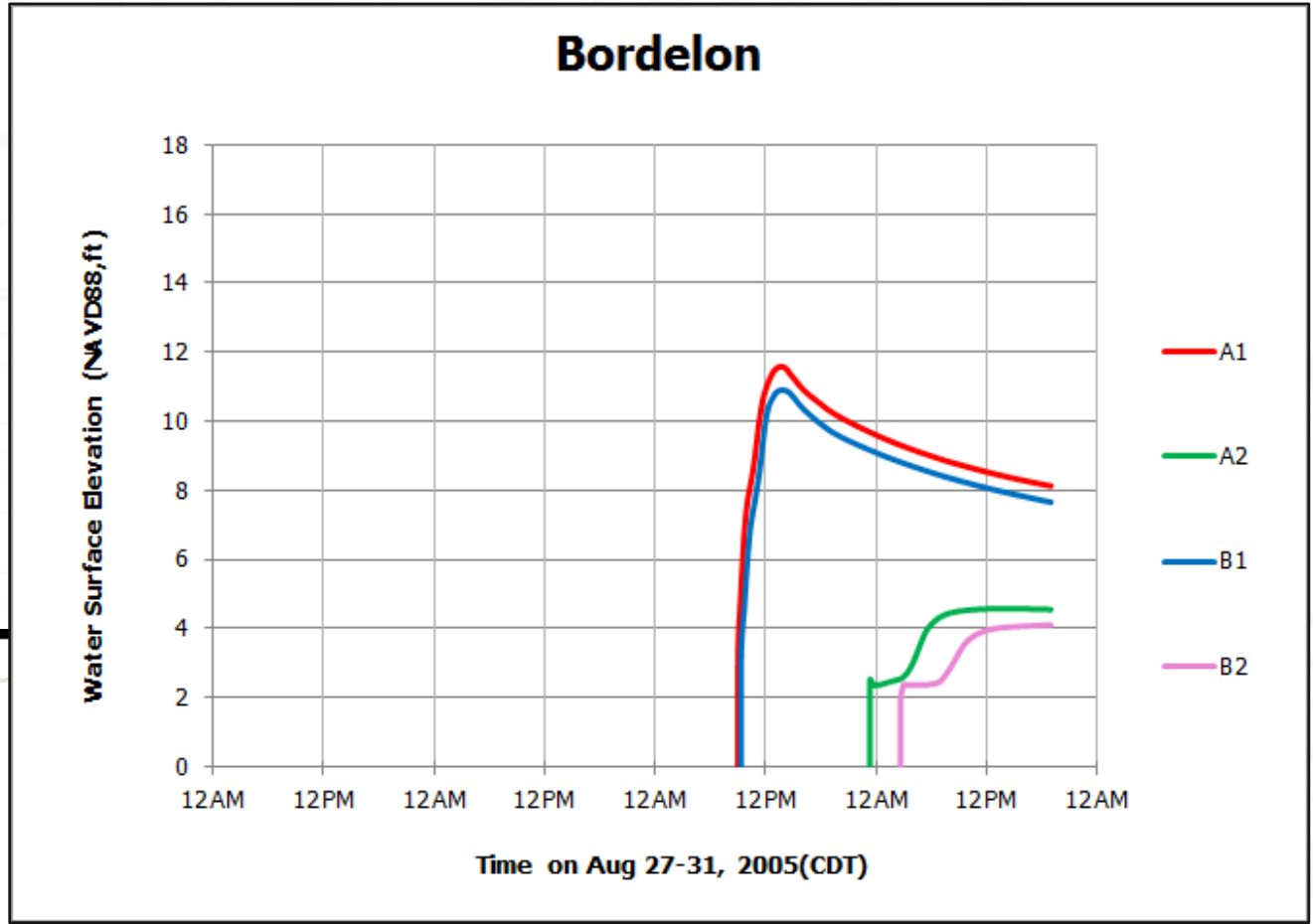
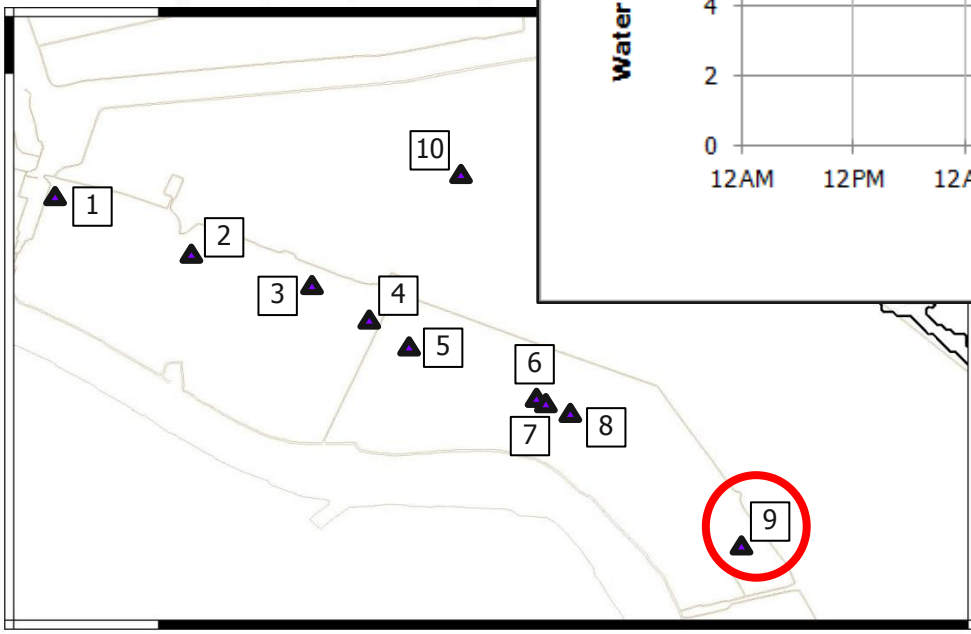


Figure 37i



-90°

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

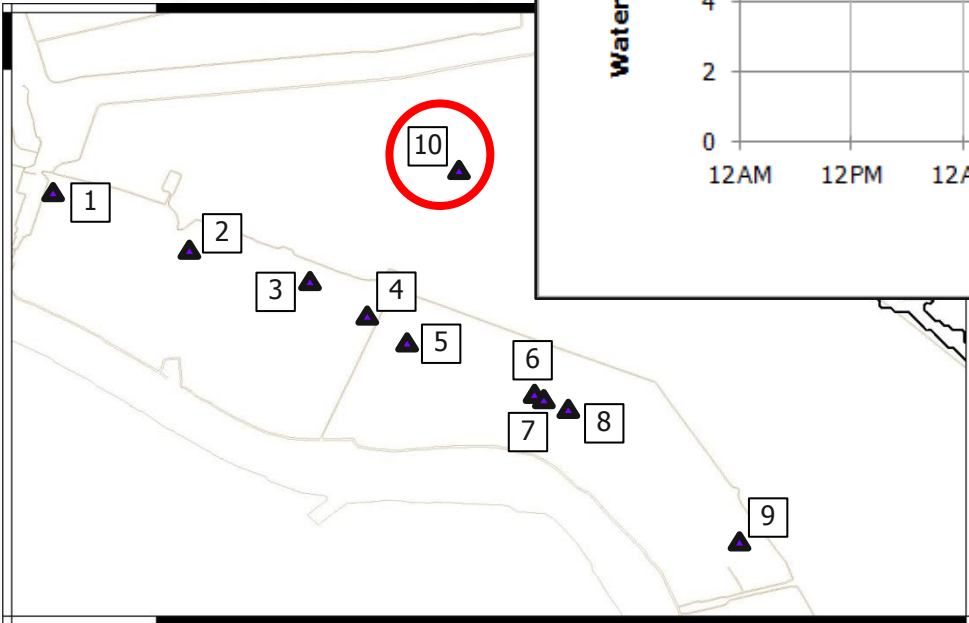
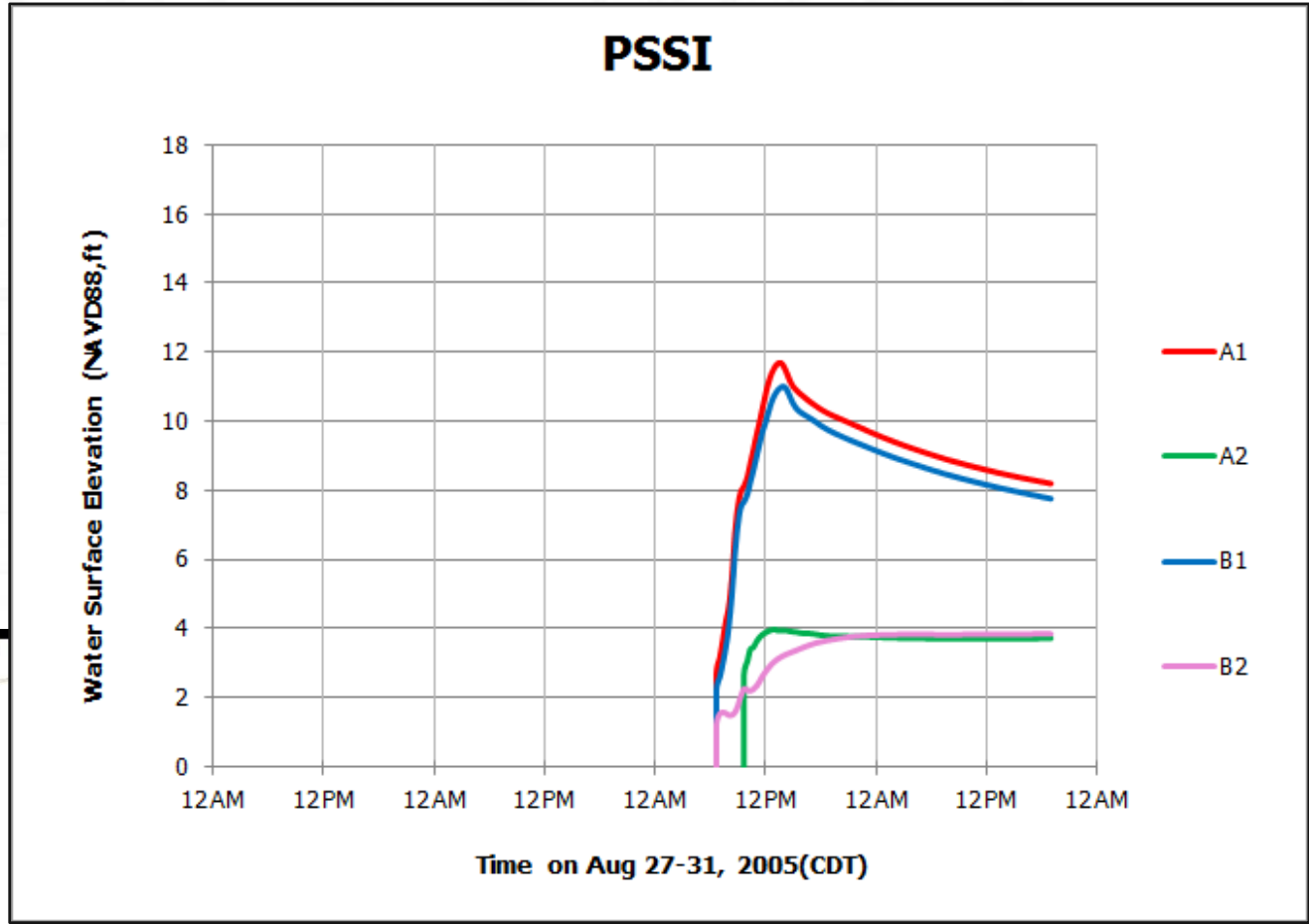


Figure 37j

# Katrina - Scenario B2: Interior water surface time series at Plaintiff Properties

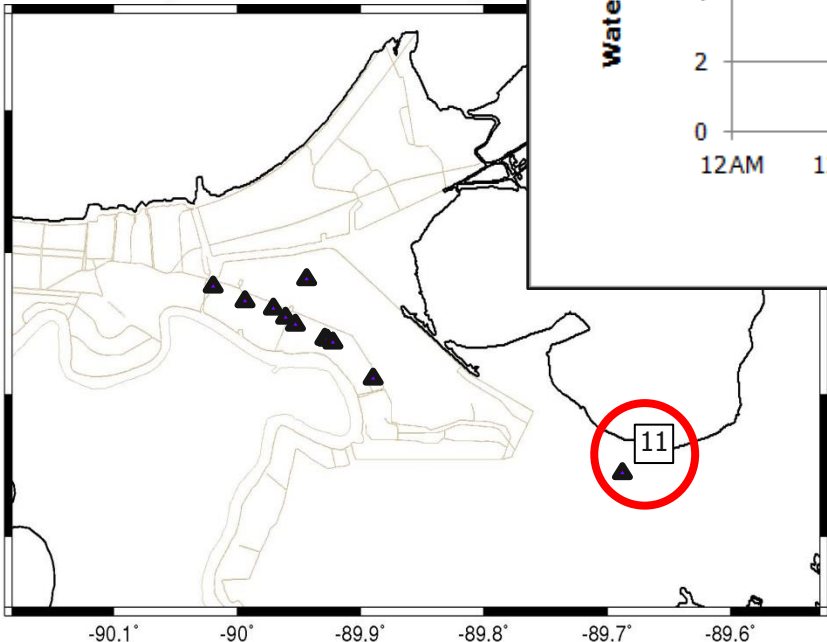
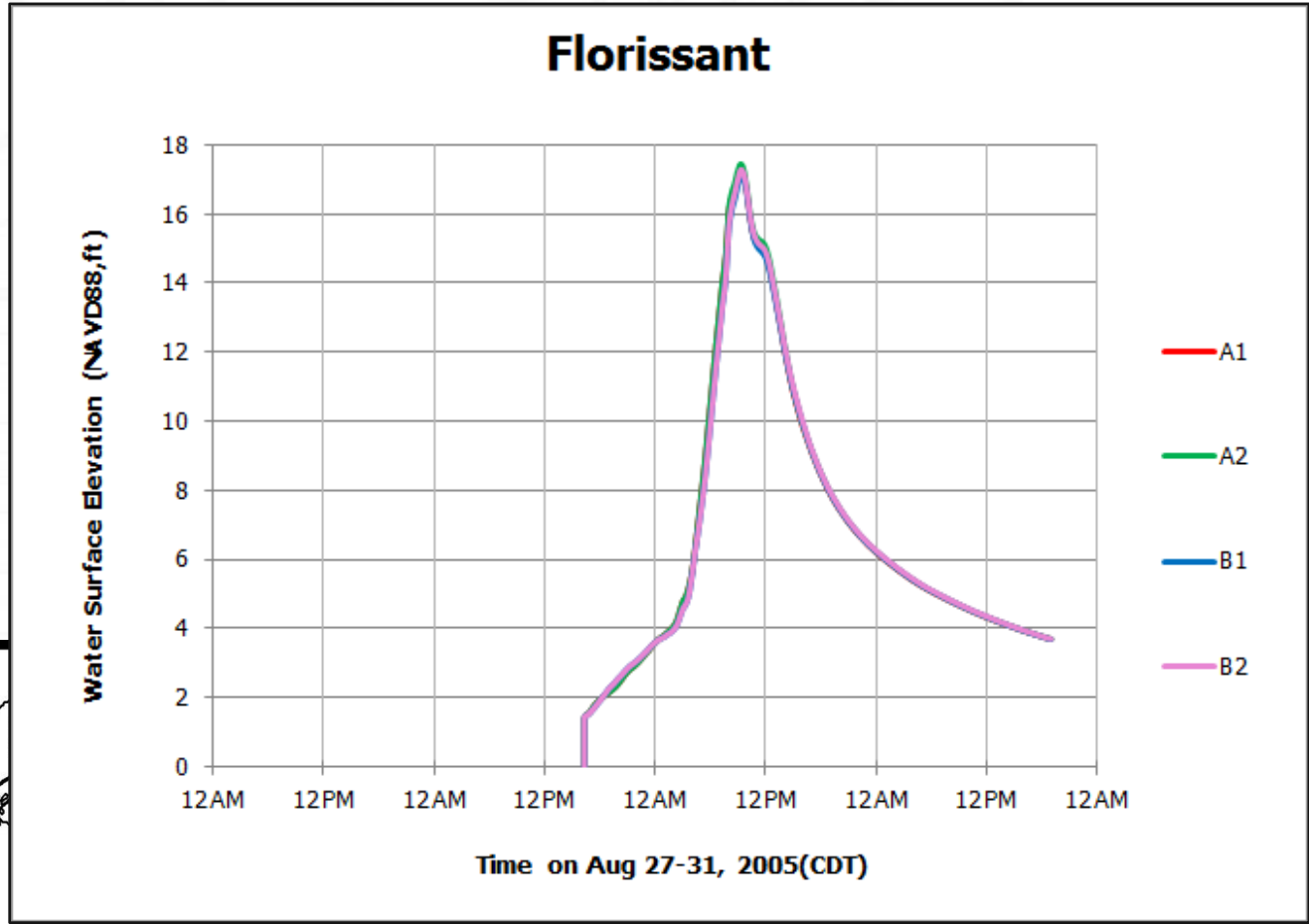


Figure 37k



## Katrina - Scenario B2: Flooding conclusions for Plaintiff Properties

- The maximum water surface elevations (in ft) at each Trial Property in the Scenario B2 “MRGO as Designed/1956 Wetlands/IHNC Breaches Only” are summarized in the table below.

Location	Scenario A1	Scenario A2	Scenario B1	Scenario B2
Adams	10.5	9.0	9.3	8.0
SBP #1	10.7	8.5	9.5	7.5
SBP #2	10.8	8.3	9.7	7.5
Tommaseo	11.0	7.1	10.1	6.3
SBP #3	11.3	6.2	10.6	5.4
SBP #4	11.5	4.6	10.8	4.1
Steve’s RV	11.5	4.6	10.8	4.1
SBP #5	11.5	4.6	10.8	4.1
Bordelon	11.6	4.6	10.9	4.1
PSSI	11.7	4.0	11.0	3.8
Florissant	17.3	17.5	17.2	17.3

Table 10