

An aerial photograph of a flooded field. The water is dark and reflects the sky. In the center of the field, a cow is visible, partially submerged. The field is surrounded by a dark, possibly forested or wooded area. The text 'FLOOD' is overlaid in the top left corner in a bold, black font with a blue outline.

**FLOOD**

**ADJUSTMENT**

**RECOVERY**

## **Emerge:**

### **Fluvial Tapestries from Hurricane Harvey**

Fluvial Tapestries is an art installation exhibiting and interpreting the natural effects of Hurricane Harvey on Buffalo Bayou in the form of sculptural objects, video, and illustrations. The work is an artistic and scientific collaboration between artist Kate Kendall, geologist Jerry Kendall, and their communities with support from the Buffalo Bayou Partnership and funded in part by the City of Houston through the Houston Arts Alliance.

Buffalo Bayou is an ever-evolving fundamental feature of Houston. It has and always will change and adapt to its surroundings. The bayou responds to both natural and artificial changes imposed on it, eroding in one place and depositing sediment somewhere else. Hurricane Harvey was one of thousands of such events that Buffalo Bayou has experienced. Emerge: Fluvial Tapestries presents a natural narrative of Hurricane Harvey in relation to Buffalo Bayou's water levels and the sediment deposits left after the storm.

From October 2017 to June 2018 a team of artists and geologists working in communication with the Buffalo Bayou Partnership and the University of Houston Department of Earth and Atmospheric Sciences collected 12 sand peels from sediment deposits left by Hurricane Harvey in Buffalo Bayou Park. A sand peel is a geologic science tool used to capture and read sediment deposit patterns. These natural sand tapestries are a record of Buffalo Bayou's reactions to Hurricane Harvey. The sedimentary structures and layers visible on each sand peel are the result of the evolving energy levels and sediment load carried by Buffalo Bayou as water unleashed by Hurricane Harvey

flooded and receded from Houston. ***The layers tell the story of flooding, adjustment, and recovery from the storm.*** The frames for the sand peel sculptures are made from recycled wood debris collected after Hurricane Harvey. They are complemented by water marks on the walls of the gallery that illustrate the timeline of events during Harvey flooding and a 2-channel video that documents the efforts to restore the park, the current flow and use of the Bayou, and the surrounding landscape of Houston, Texas.

All 12 sand peel sculptures are exhibited as part of Emerge: Fluvial Tapestries from Hurricane Harvey. The exhibition runs Friday October 26, 2018 through November 6, 2018 in the Buffalo Bayou Park Sunset Coffee Building Gallery.

A special THANK YOU to the Buffalo Bayou Partnership, especially Anne Olson, Trudy Smith and Robbie Robinson, The University of Houston Department of Earth and Atmospheric Sciences, especially Joel Saylor and Erin Miller, Charlie and Linda Beeman, Tom Byrd aka. Buffalo Bayou Air Force, Dixie Friend, Ky "the boxer" Cooksey, Box Superstore, Mina Gaber, and Jan-Claire Phillips for their generous support of this project. This project is funded in part by the City of Houston through the Houston Arts Alliance.



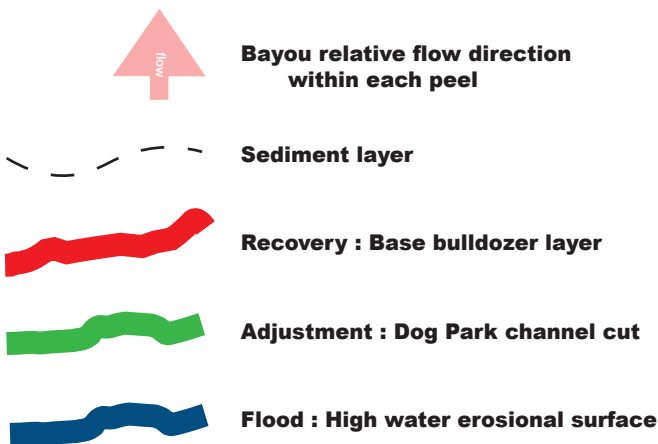
## Definition: Sand peel

From AAPG Wiki - [http://wiki.aapg.org/Sand\\_peel](http://wiki.aapg.org/Sand_peel)

Sand peels are created by applying an adhesive, such as epoxy or resin, to the wall of a trench in modern sand deposits and joined to a backing material such as wood or fabric. When the adhesive sets the backing material can be lifted away leaving a thin layer of the sand adhered to the backing material, with depositional features intact. Peels can also be made from cores or outcrops of unconsolidated sands. Sand peels allow for the capture of details in sedimentary features for analysis away from the field, or for use in teaching.

The following pages include interpretive illustrations of each of the 12 sand peel sculptures in the exhibition. They tell the story of the flood, adjustment and recovery of the Buffalo Bayou due to Hurricane Harvey.

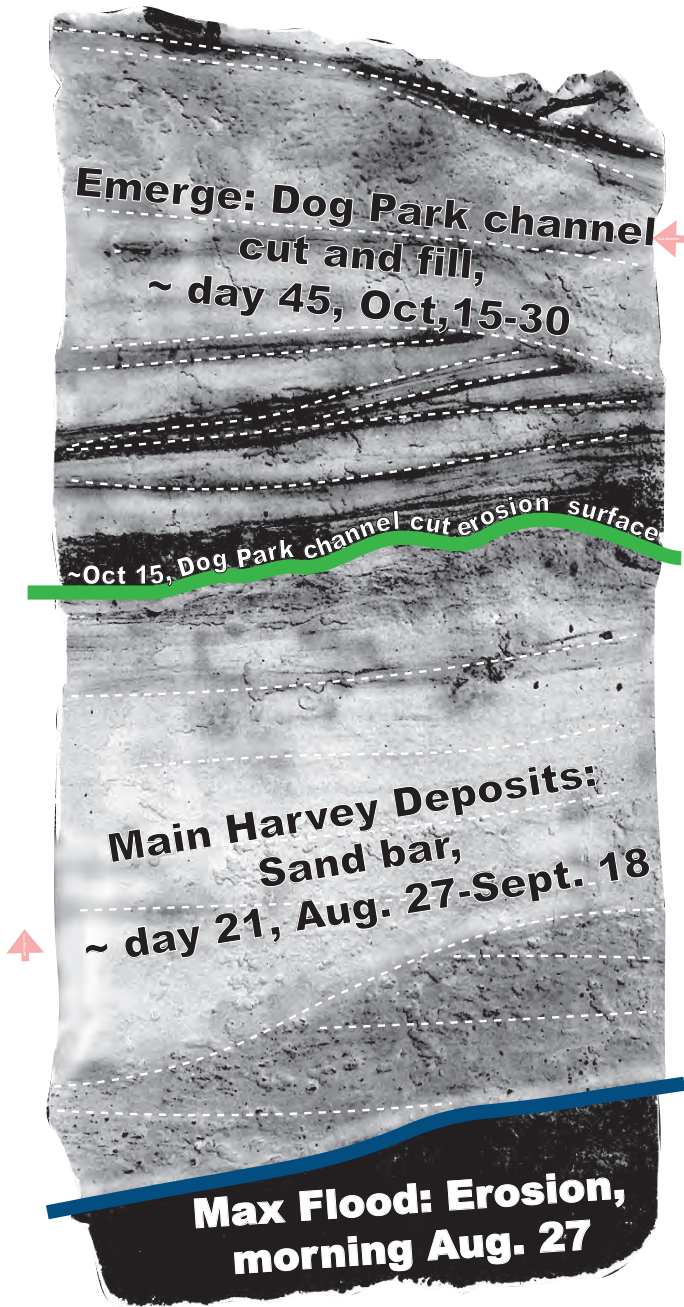
## INTERPRETIVE ILLUSTRATION KEY

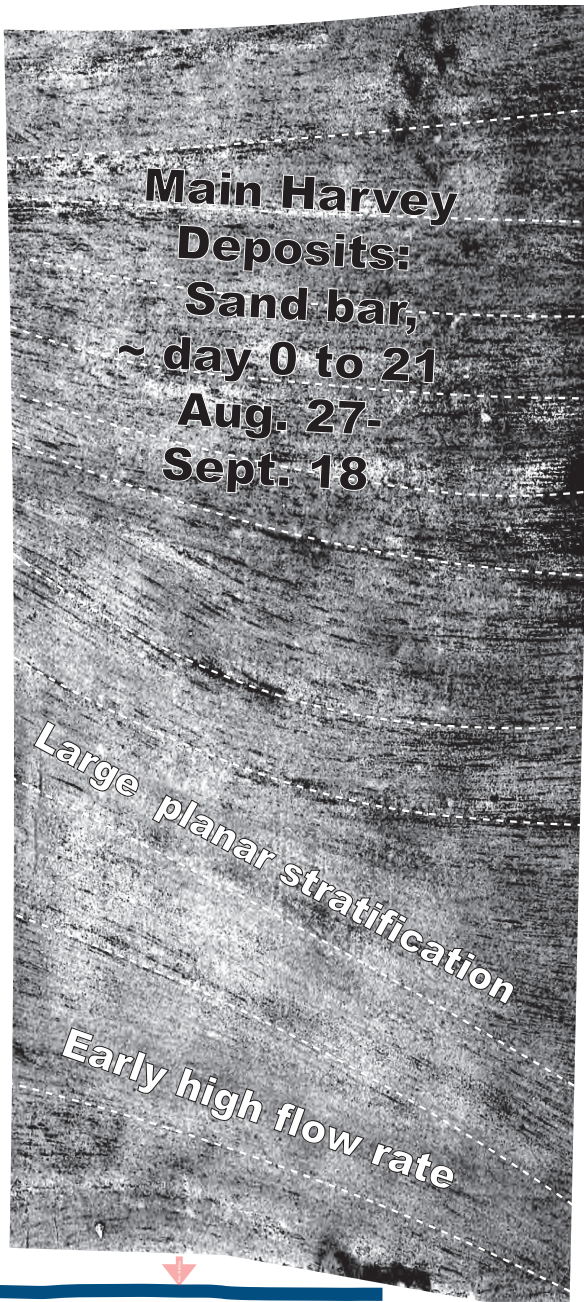




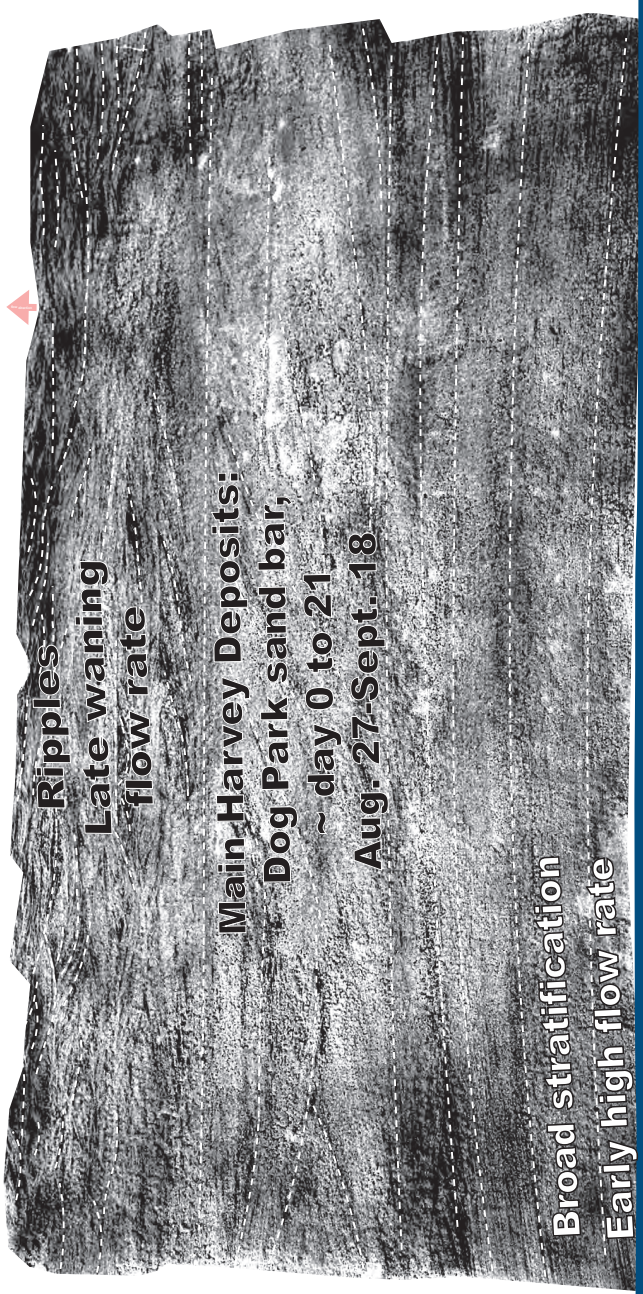
Sand Peel Sculpture A











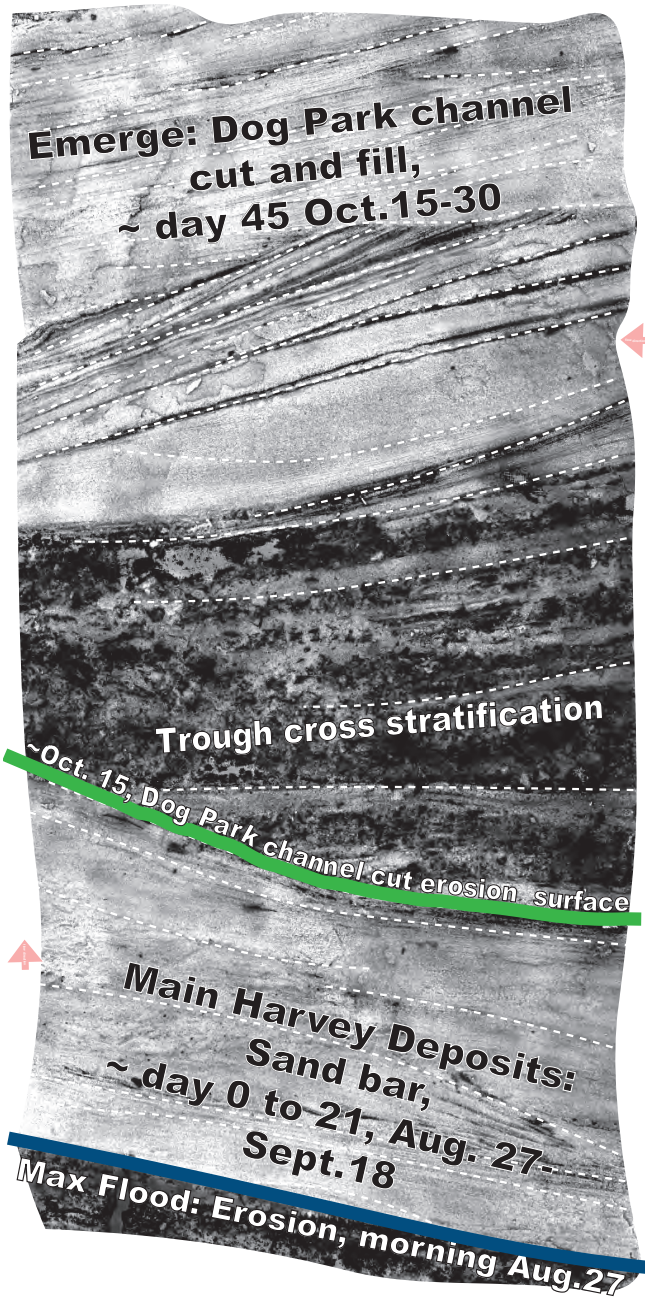
**Ripples**

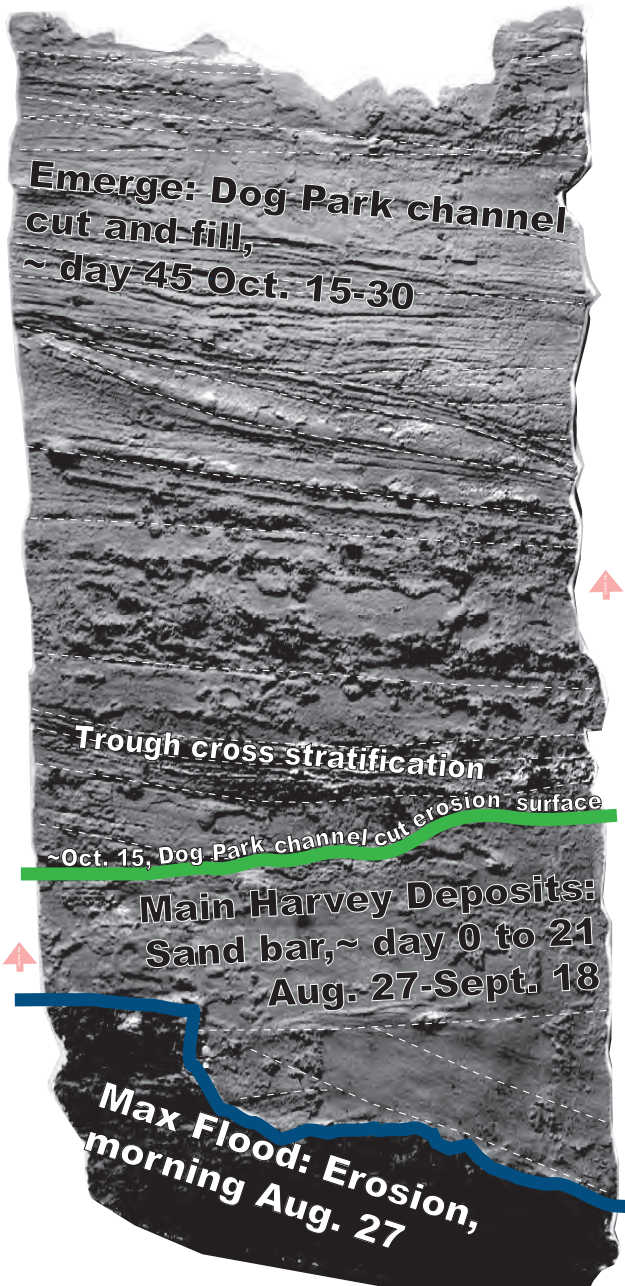
**Late waning  
flow rate**

**Main Harvey Deposits:  
Dog Park sand bar,  
~ day 0 to 21  
Aug. 27-Sept. 18**

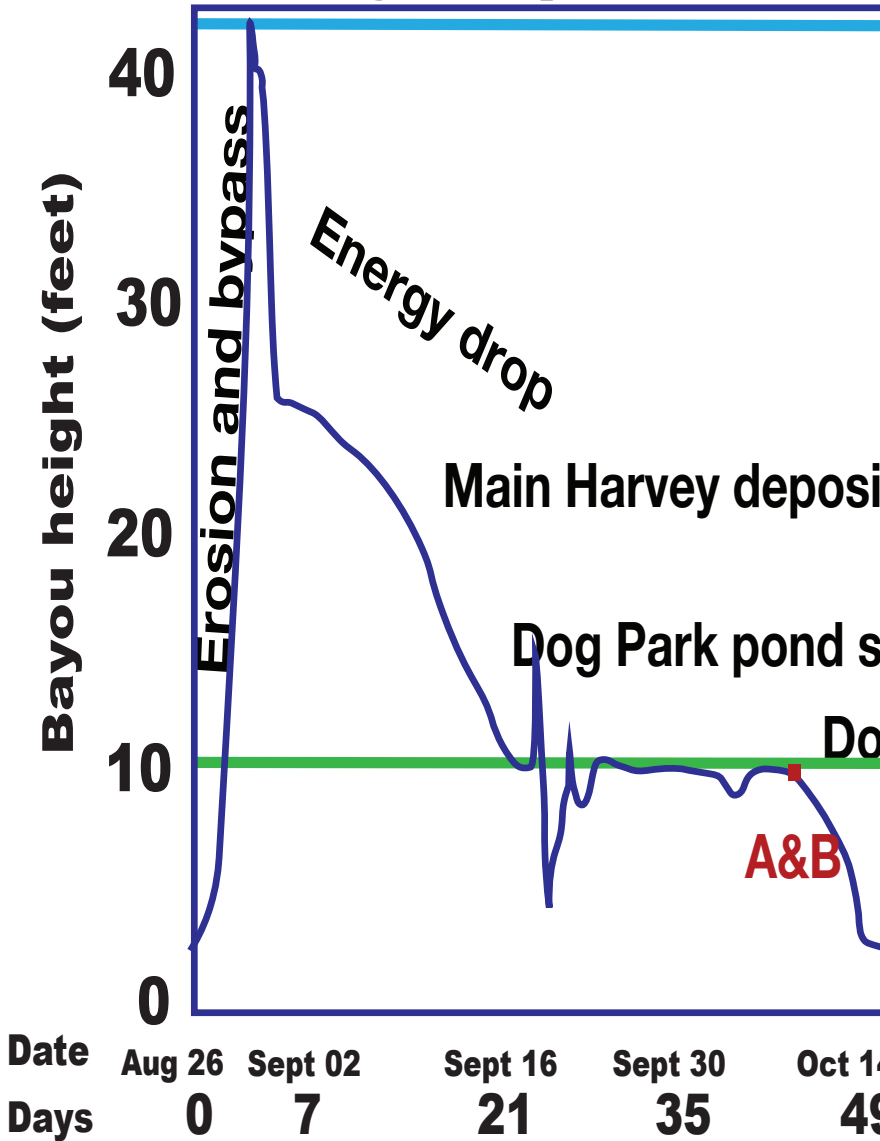
**Broad stratification  
Early high flow rate**

Sand Peel Sculpture C

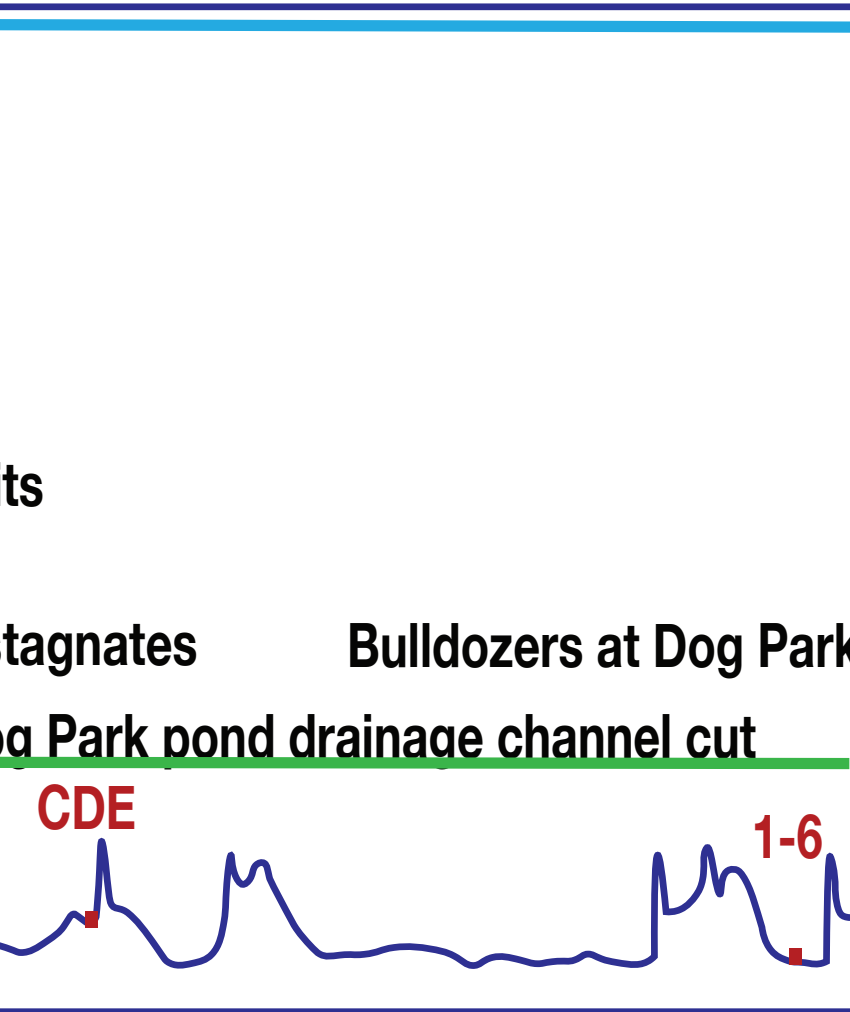




# Harvey impact on L



# Buffalo Bayou level



ts

tagnates

Bulldozers at Dog Park

g Park pond drainage channel cut

CDE

1-6

4  
9  
Oct 28  
63

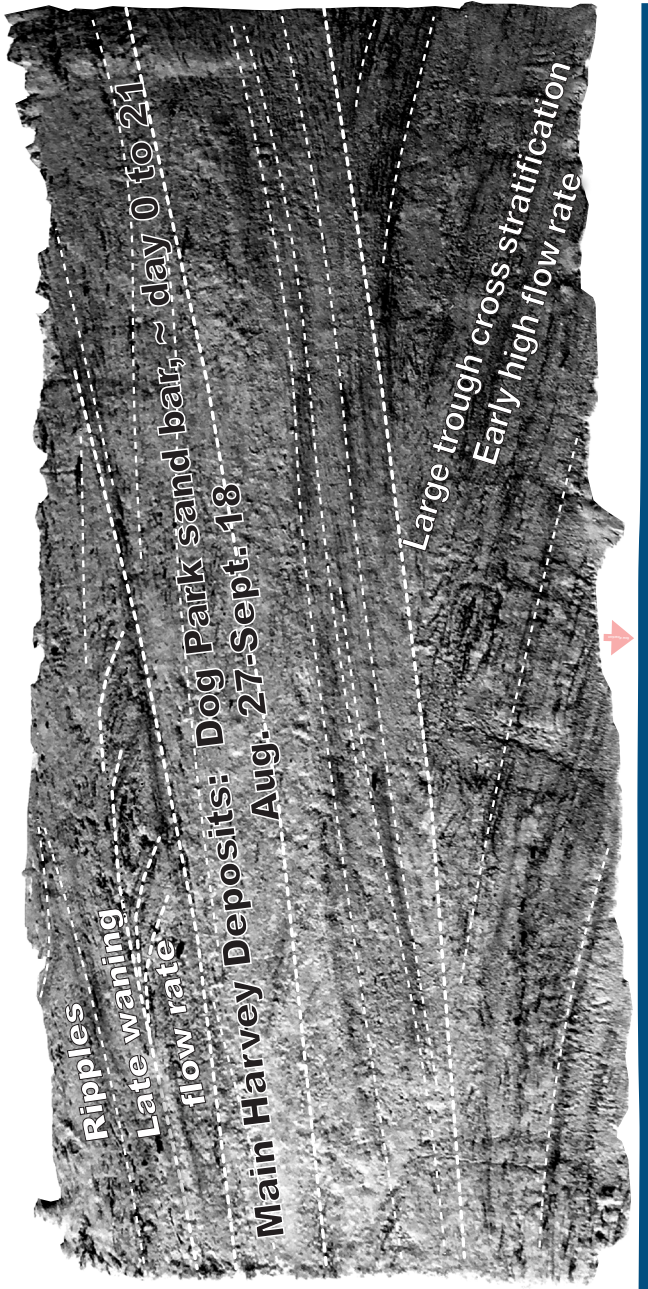
Nov 11  
77

Nov 25  
91

Dec 09  
105

▪ Sand Peel collection date





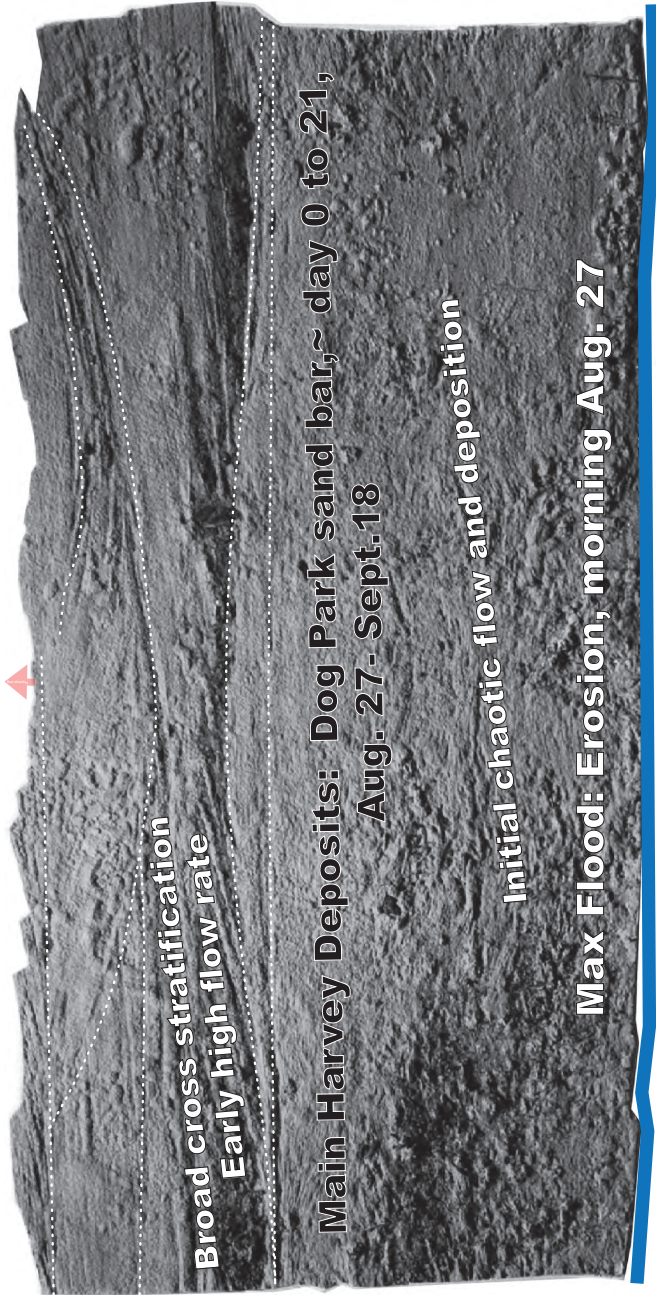
Sand Peel Sculpture B

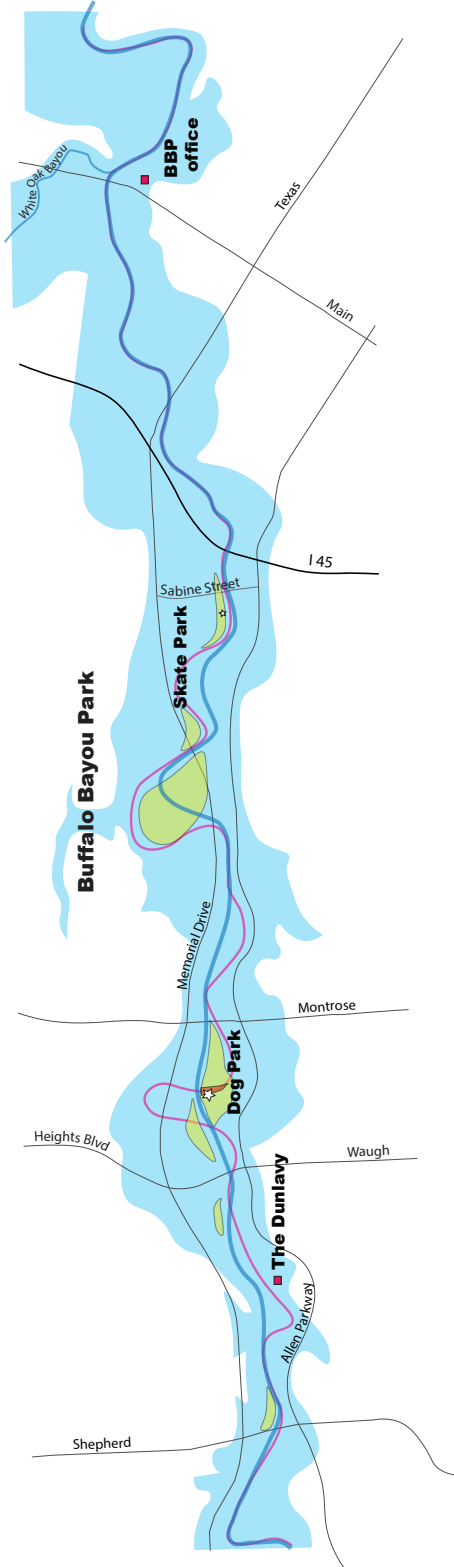
















Sand Peel Sculpture 1

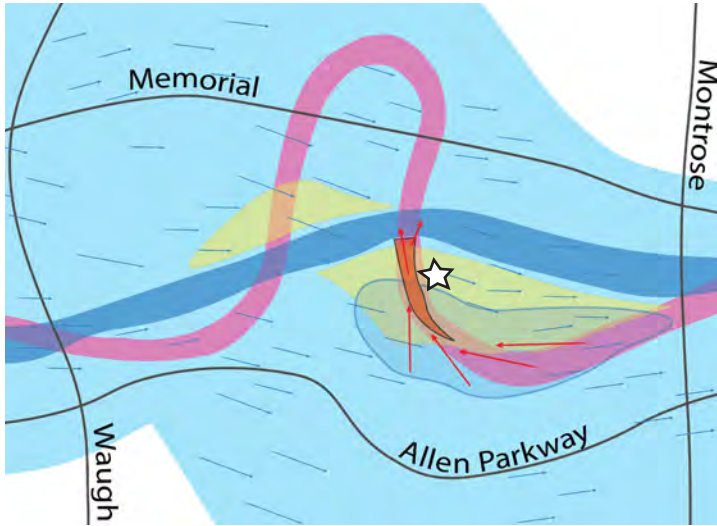













- Key**
-  1944 channel
  -  Active channel
  -  Max Harvey flood; Aug 27, 2017; 42 ft
  -  Dog Park Channel Cut; late drain flow
  -  Dog Park Pond drainage flow
  -  Sand Deposits from Hurricane Harvey; early flow
  -  Sand Peel Sculpture Sites
  -  Dog Park Pond
  -  Harvey flood flow
  -  Dog Park Pond drainage flow

## Buffalo Bayou Park and Dog Park Detail Maps

11 of the 12 sand peels were collected near the dog park in Buffalo Bayou Park. Below is a map of the area in relation to the bayou and the events of Hurricane Harvey that created the sand peels.



### Key

- |                                                                                     |                                                 |                                                                                     |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|
|    | 1944 channel                                    |    | Sand Peel Sculpture Sites   |
|   | Active channel                                  |   | Dog Park Pond               |
|  | Max Harvey flood; Aug 27, 2017; 42 ft           |  | Harvey flood flow           |
|  | Dog Park Channel Cut; late drain flow           |  | Dog Park Pond drainage flow |
|  | Sand Deposits from Hurricane Harvey; early flow |                                                                                     |                             |

## About the Artist

Kate Kendall (b. 1985) looks to the natural world as a less determined space than the human world to soften boundaries and complicate, challenge and enrich the viewer's perspective on reality. As a conceptual artist, she uses many different media ranging from sculpture and installation to video, sound and text

to help communicate ideas and create experiences. Her goal is to promote new narratives and languages that enable mobility and find ways for us to live with complexity and difference together.

Having grown up in the Houston art community, her work mines focused research and personal experiences/history with geology and landscape to consider narrative knots, aiming to expose their construction, stress their complexity and enrich the viewer's perception of their own cultural and political context. The development of the sand peel sculptures in Houston is the result of witnessing Hurricane Harvey's impact on the people and places of her hometown.

Kate Kendall received her MFA from California Institute of the Arts and her BA from the University of Southern California. She has exhibited in Los Angeles, New Mexico, South Africa and various spaces in Houston including DiverseWorks Art Space and Box13 ArtSpace. She has also worked fabricating and installing public art all around the city of Houston, often with public artist Dixie Friend Gay, and has a deep relationship with the cultural landscape of the city.

### **About the Geologist**

**Jerry Kendall** is a global expert on the processes of mountain building. He began his geology career in the Arctic doing field exploration and research in Greenland and Svalbard. He has 40 years of experience in outdoor geology instruction in remote areas to varied groups, including boy scouts, students and professional geologists. He has worked in academia and industry expanding the limits of knowledge on how multiple earth

processes interact to produce mountains and hydrocarbon accumulations. He has a deep passion for understanding the integration of earth systems, how it impacts us, and sharing that understanding with others.

Jerry Kendall has been a resident of Houston Texas for 20 years. He currently advises students at the University of Houston Earth and Atmospheric Science department and maintains an interest in the geology of the region. He lives directly on Buffalo Bayou and has watched it flow, surge and evolve over the last 20 years. He is interested in how the natural processes of the bayous have integrated with the anthropogenic efforts to coexist with it.

### **Making A Sand Peel, October 2017**





