

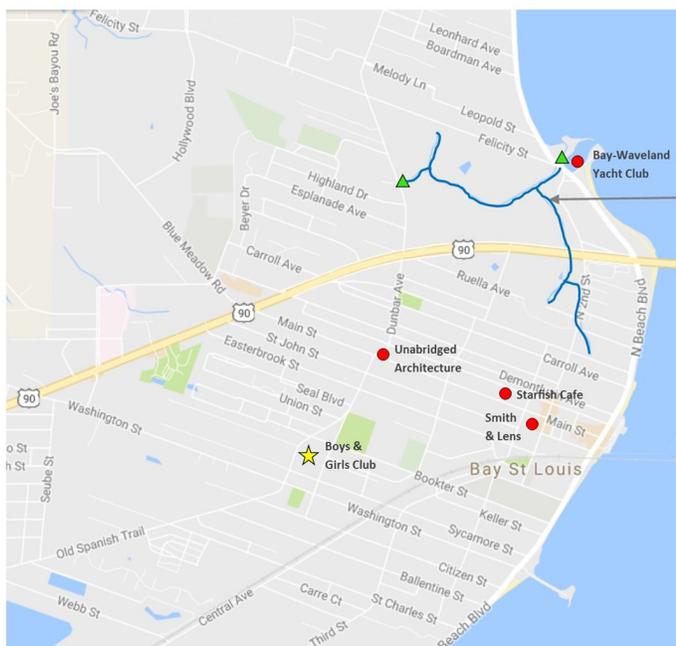
# NOAA-21<sup>st</sup> CCLC Watershed STEM Education Partnership Grant

## Magnolia Bayou, Bay St. Louis, MS



The Gulf Coast Community Design Studio will lead a summer watershed education program with students at the Hancock County Unit of Boys and Girls Club. Students will learn about watershed dynamics, impacts of stormwater runoff on water quality and quantity, and the important role of watershed planning and action. Programming will go beyond STEM to STEAM and will connect students with NOAA and other science professionals, as well as local art, design and service professionals. The project will focus on Magnolia Bayou, an important local urban waterway located close to the Hancock County Unit of the Boys and Girls Club. This project was made possible by support from the National Marine Sanctuary Foundation ([www.marinesanctuary.org](http://www.marinesanctuary.org)).

*Rainwater that runs off the earth's surface can cause flooding and carry sediments, litter and other pollutants into our waterways. How we build and what we do on our properties affects what ends up in our bays and bayous impacting water quality, habitats and our ability to enjoy the things we love like boating and fishing.*

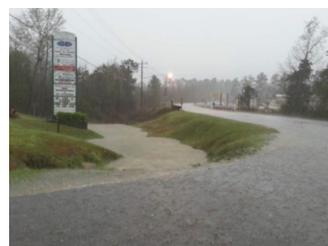


Magnolia Bayou, Bay St. Louis

Magnolia Bayou is a coastal stream in eastern Hancock County. The roughly 800 acre watershed lies completely within the Bay St. Louis city limits. One fork of the stream flows northeast from downtown Bay St. Louis and the other southeast, joining shortly before they enter the Bay of St. Louis at the Bay-Waveland Yacht Club

▲ MDEQ Water Quality Monitoring Site—Coastal Streams and Habitat Initiative

STORMWATER RUNOFF



SOIL & SEDIMENT



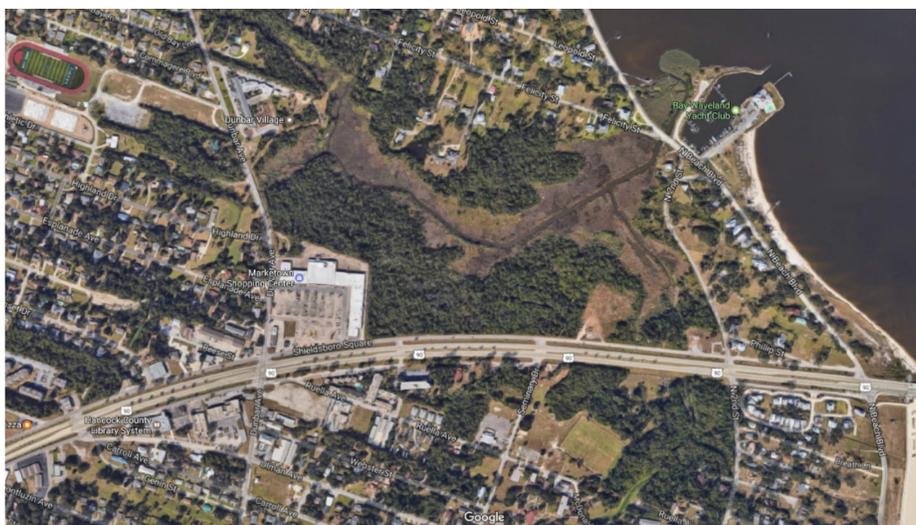
TRASH & LITTER



POLLUTANTS



CREEKS, BAYOUS & BAYS



# PROGRAM CALENDAR

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>JUNE</b>				1	2	3
4	5	6	7	8	9	10
11	12 Program Overview & STORMWATER	13	14 Intro to MAGNOLIA BAYOU & Bayou Bucks	15	16	17
18	19	20	21 FIELD TRIP 1: DRONE & H <sup>2</sup> O Testing at the Bayou	22	23	24
25	26 Debrief: DRONES	27	28 Debrief: H <sup>2</sup> O Testing	29	30	

<b>JULY</b>						1
2	3	4	5	6	7	8
9	10	11	12 FIELD TRIP 2: Art, Culture & the Bayou	13	14	15
16	17	18	19	20	21 ARTIST-LEAD PROJECT	22
23	24 ARTIST-LEAD PROJECT	25	26 ARTIST-LEAD PROJECT	27	28 ARTIST-LEAD PROJECT	29
30	31	Notes:				

<b>AUGUST</b>						
		1	2	3	4	5 EXHIBITION OPENING & PRIVATE EVENT
6 EXHIBITION OPEN TO THE PUBLIC	7	8	9	10	11	12 Second Saturday in the Bay

## Program Contact:

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# PARTNERS



**Innovative Imaging & Research (I<sup>2</sup>R)** is a small, women-owned research and development company based out of Stennis Space Center that specializes in remote sensing, geospatial, and optics-based products and services. They will be manning a drone flight over Magnolia Bayou at our first field trip on Wednesday, June 21st!



**unabridged Architecture** is a local LEED certified architecture group involved in many coastal restoration projects. We will be visiting their office on our second field trip on July 12th.



**Starfish Café** is an experiential learning café and one of the first participants in the Plastic Free Initiative. We will be visiting the café to make an edible project on our second field trip on July 12th.



**Smith & Lens** is a local artist group and gallery also involved in many creative downtown economic development initiatives.



**Steve Barney** is a local artist and founder of the STEAMPunk Pottery Project that integrates art into STEM. He is also the founder of the BSL Creative Arts Center; a multidisciplinary community makerspace.

He will guide us through the process of making art and a community exhibition from what we learn about Magnolia Bayou.