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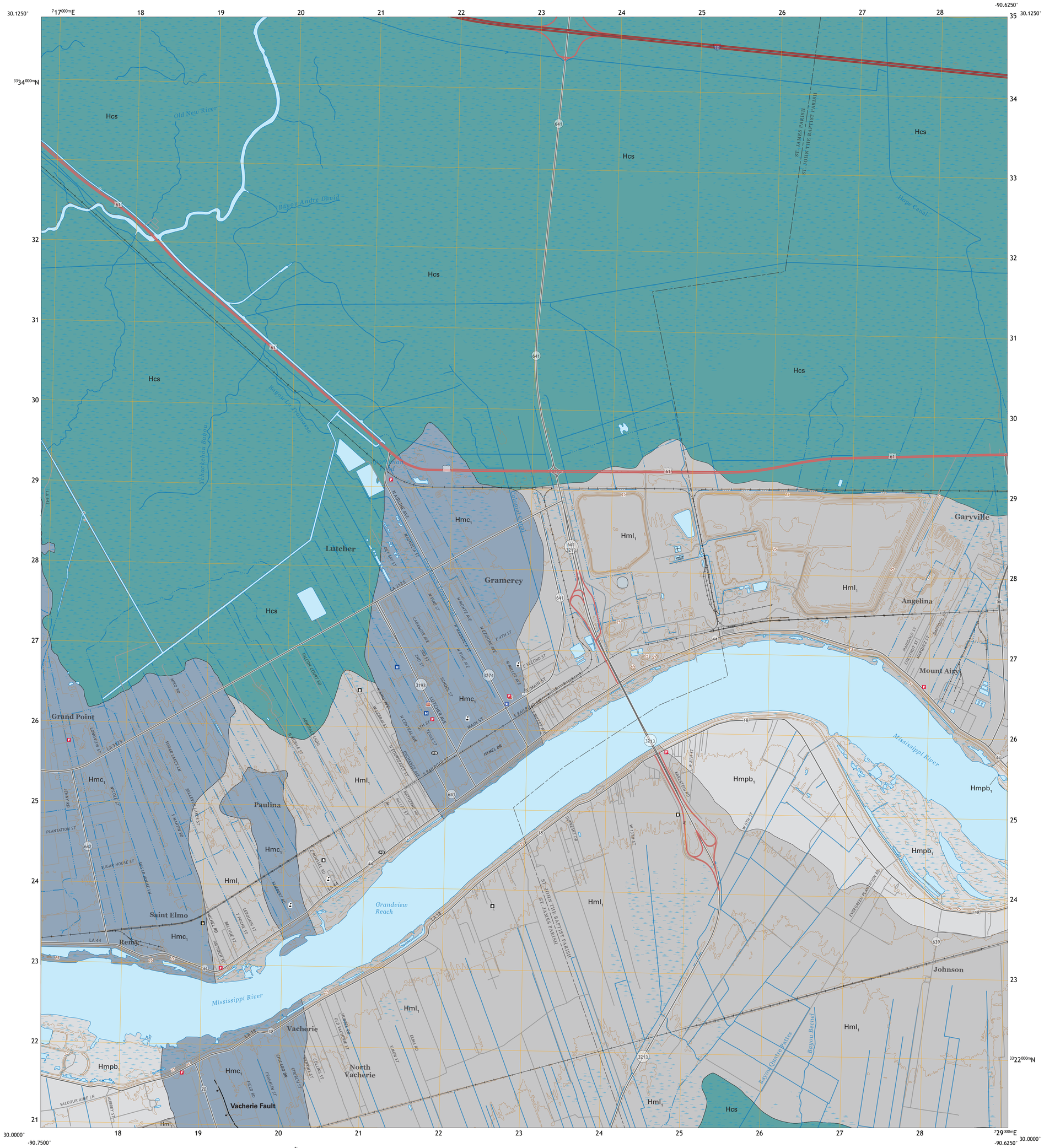
LSU Louisiana Geological Survey

The National Map US Topo

**LUTCHER QUADRANGLE**
**LOUISIANA 7.5-MINUTE SERIES**




## Description of Map Units

QUATERNARY SYSTEM

HOLOCENE

Hmpb$_1$ — **Mississippi River point bar deposits belt 1** — Point bar deposits of Mississippi River meander belt 1, buried by a thin layer of overbank sediments. Sand-size grains and deposit is composed of quartz, mica, iron oxide, and a trace of dark-colored mafic silicate minerals.

Hmc$_1$ — **Crevasse and crevasse complex deposits of the Mississippi River meander belt 1** Silty to sandy crevasse splay deposits of Mississippi River meander belt 1. Crevasse splays are partially overlain in some places by point bar deposits. Grains are silt to sand-size and the deposit is composed of quartz, mica, iron oxide, and a trace amount of dark-color mafic silicate minerals.

Hml$_1$ — **Levee overbank flood deposits of the Mississippi River meander belt 1** — clayey to Silty deposits of the natural levee flanking Mississippi River meander belt 1. This deposit becomes more clayey at the distal side of the river. Minerals presents include quartz, iron oxide, and mica.

Hcs — **Coastal Swamp** — Mud deposit in paralic setting of seasonally fluctuating fresh and brackish surface water. Dark steel gray, black, and brown-black organic rich mud with less than 0.1% silt fraction.

**Open Water, Inundated Area, Wetland**

**Streams**

**Contacts**

**Topographic Contours**

**Normal Fault** — Ball and bar on downthrown side

**References:**

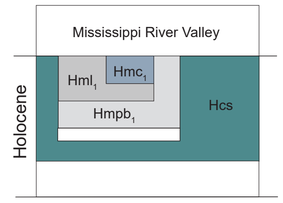

Krinitzsky, E. L., 1950, Geological investigation of faulting in the lower Mississippi Valley, U.S. Army Corps of Engineer Technical Memorandum No. 3-311, v. 3.

McCulloh, R., Heinrich, P., and Snead, J., 2003, Ponchatoula 30 x 60 minute geologic quadrangle: Louisiana Geological Survey, scale 1:100,000.

Saucier, R. T., 1963, Recent geomorphic history of the Pontchartrain basin, Louisiana State University Press, v. 9.

Saucier, R.T., 1994, Geomorphology and Quaternary geologic history of the Lower Mississippi Valley, US Army Engineer Waterways Experiment Station.


### Correlation of Map Units





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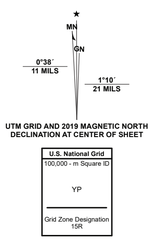
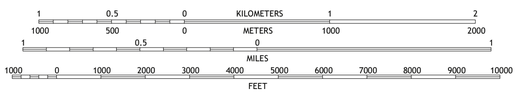
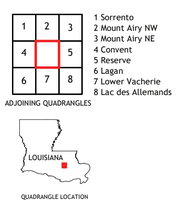



SCALE 1:24,000
CONTOUR INTERVAL 5 FEET
NORTH AMERICAN DATUM OF 1983 (NAD 83)
WORLD GEODETIC SYSTEM 1984 (WGS 84)
UNIVERSAL TRANSVERSE MERCATOR PROJECTION, ZONE 15
NORTH AMERICAN VERTICAL DATUM OF 1988




ROAD CLASSIFICATION

Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route — US Route — State Route

Base Map.....United States Geological Survey, 2020
Boundaries.....LaDOTD, 2007
Contours.....National Elevation Dataset, 2008 - 2011
Hydrography.....National Hydrography Dataset, 2002 - 2017
Names.....GNIS, 1980 - 2017
Roads.....U.S. Census Bureau, 2017
Wetlands.....FWS National Wetlands Inventory 2021


LGS acknowledges corporate and individual property owners for field work access and information in support of this study.

This research is supported by the U. S. Geological Survey, National Cooperative Geologic Mapping Program. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U. S. Government or the state of Louisiana. This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.


This map has been carefully prepared from the best existing sources available at the time of preparation. However, the Louisiana Geological Survey and Louisiana State University do not assume responsibility or liability for any reliance thereon. This information is provided with the understanding that it is not guaranteed to be correct or complete, and conclusions drawn from such data are the sole responsibility of the user. These geologic quadrangles are intended for use at the scale of 1:24,000. A detailed on-the-ground survey and analysis of a specific site may differ from these maps.

# Geologic Map of the Lutcher 7.5 Minute Quadrangle, St. James and St. John the Baptist Parishes, Louisiana, 2023