U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 8/24/2021
ORM Number: SWG-2021-00052
Associated JDs: N/A
Review Area Location[1]: State

Excluded waters ((b)(1) ±(b)(12)):[4]				
Exclusion Name	Exclusion Size		Exclusion[5]	Rationale for Exclusion Determination
			constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	ditch does not relocate a tributary nor is it constructed in a tributary.

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: Preliminary Waters of the U.S. Delineation ReportCrosby Township/MUD Drainage Improvements, Terracon, March 16, 2020.

This information is sufficient for purposes of this AJD.

Rationale: N/A or describe rationale for insufficiency (including partial insufficiency).

Data sheets prepared by the Corps: Title(s) and/or date(s).

Photographs: Aerial and Other: OpenStreetMap (1196, 2010, 2018), Site Visit 02-10-2020

Corps site visit(s) conducted on: Date(s).

Previous Jurisdictional Determinations (AJDs or PJDs): ORM Number(s) and date(s).

Antecedent Precipitation Tool: *provide detailed discussion in Section III.B*.

USDA NRCS Soil Survey: Harris County Web Soil Survey

USFWS NWI maps: ESRI layer NWI USFWS

USGS topographic maps: 7.5 Min USGS, Crosby, Tx. 1919, 1944, 1982, 2019

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	N/A.
Other Sources	N/A.

B. Typical year assessment(s): Water features where analyzed using APT F D O F X O D W L Q J I R U F R Q visit, 02-10-2020. The APT is a tool that affords the user the capability to look at rainfall in the recent past, cumulative for the last 3 months as well and climatoligcal review for the past 30 years. The WETs score (last 3 mths) for that date totaled 9 on a scale of 6-18 with a score of 15-18 being wetter than normal precipitation for the previous 3 months, which indicates that the measurements or observations made are reflective of drier than normal climatic conditions. It uses climatic data collected from numerous nearby weather stations and produces the most reliable source with a full 30 years of precipation data. The site coridnates are located at an aprox. 45.08 ft elevation. Below is the result of numerous dates run for this site.

Date	Rain prior 72 hours	WETS (3 mth) score:	APT	Season	PDSI
10 FEB 20 (Agent site visit)	´	9 (D)	Drier than Normal	Wet	Mild Drought

16 Nov 20 (Google earth)	´	1 (N)	Normal	Wet	Incipient drought
23 FEB (Google Earth)	´	4(N)	Normal	Wet	Moderate Wetness
18 OCT 2017 (Google Earth)	0 ´	5(W)	Wetter than Normal	Wet	Extreme Wetness
30 Dec 16	<1	12(N)	Normal	Wet	Mild wetness

The results of the review of the APT analysis aiding in reaching the conclusion needed to determine if the subject feature have more than ephermal flow and/or are inundated by flooding from a (a)1-(a)3 water in a typical year. This was determined based on a review of site-specific information including, elevation data, aerial photos, and USGS topo maps.

Stream A and B are naturally occurring surface water channels that contribute surface water flow to an (a)(1) water in a typical year, as intermittent, and flows as such in a typical year. These streams flow into Jackson Bayou, (a)(2) then into the San Jacinto River (a)(1) water. Flow Regimes were veriffied based on field observations, current and historical data (aerial photography and USGS topographic maps), ORM data and past actions, and NWI maps.

Drainage Canal A, Ditch A & B: these features are a constructed or excavated channel used to convey water. The ditches do not meet the definition of an (a)(1) or (a)(2) water and was not constructed in an (a)(4) water. The ditches do not relocate a tributary nor is it constructed in a tributary.

C. Additional comments to support AJD: Stream A is an intermittent tributary to Jackson Bayou, a perennial stream west of the project area. Portions of this stream appear to have been altered, in particular the reach immediately abutting the rail road. At the time of the site visit Stream A was carrying between four to 18 inches of water and was flowing to the west. The average width of the stream from OHWM to OHWM is approximately five to seven feet. The banks are relatively incised and the average width across the top of bank is approximately 20 to 30 feet. There were few signs of aquatic fauna; however, the stream may support a variety of small fish, amphibians, and reptiles. The primary source of hydrology appears to be surface water runoff from the surrounding areas.

Stream B is also an intermittent tributary to Jackson Bayou. The portion of this stream within the project site appears to be its natural terminus. At the time of the site visit Stream B was carrying between six to 12 inches of water and was flowing to the west. The average width of the stream from OHWM to OHWM is approximately two to three feet. The banks are relatively incised and the average width across the top of bank is approximately 15 to 20 feet. There were few signs of aquatic fauna; however, the stream may support a variety of small fish, amphibians, and reptiles. The primary source of hydrology appears to be surface water runoff from the surrounding areas.