

Coastal Boundary Survey along a portion of Jefferson County, Texas

FIELD NOTES

State of Texas §
County of Jefferson §

Shoreline boundary survey performed on the line of mean high water along a portion of the Mrs. S. C. Cartwright Survey, Abstract 432 and T. & N. O. Railroad Surveys, Block 1, Abstracts 450, 296, 451, 295, 449, 294 and 455 and State Submerged Tracts 82, 81, 80, 84, and 65 in the Gulf of Mexico in Jefferson County, Texas.

All bearings, distances and coordinates are grid and are referenced to the Texas Coordinate System, Texas South Central Zone, NAD 83, U. S. survey feet. Mapping angle at NGS monument 'SHELL' is 02°18'43" and the combined scale factor is 0.999873163. Vertical datum is referenced to NAVD83, and mean high water is at an elevation of 124'.

Bearing at mean high water on the south line of the Mrs. S. C. Cartwright Survey, Abstract 432, that has a State Plane Coordinate Value of N: 13,793,395.49 and E: 3,469,664.46 from which NGS monument 'SHELL' bears S 65°35'51" W a distance of 733.38 varas (2037.18 feet).

THENCE with the south lines of said Cartwright Survey and said T. & N. O. Railroad Block 1 along the line of mean high water the following bearings and distances:

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N 64°00'34" E	362.16'	L39	N 64°23'34" E	334.57'
L2	N 62°21'20" E	374.22'	L40	N 65°29'24" E	350.37'
L3	N 63°38'00" E	347.21'	L41	N 66°46'19" E	361.44'
L4	N 63°10'27" E	292.63'	L42	N 64°57'30" E	105.80'
L5	N 62°46'51" E	343.29'	L43	N 65°15'15" E	268.35'
L6	N 61°49'54" E	324.36'	L44	N 63°06'39" E	137.90'
L7	N 64°08'13" E	332.88'	L45	N 62°28'03" E	245.20'
L8	N 62°50'34" E	343.26'	L46	N 61°47'51" E	102.53'
L9	N 62°06'17" E	350.02'	L47	N 61°13'39" E	294.01'
L10	N 62°10'35" E	321.94'	L48	N 60°24'08" E	85.36'
L11	N 63°27'17" E	351.51'	L49	N 60°45'15" E	173.23'
L12	N 61°31'19" E	335.48'	L50	N 62°50'57" E	284.49'
L13	N 64°42'32" E	329.16'	L51	N 63°00'27" E	296.80'
L14	N 64°22'24" E	352.70'	L52	N 62°28'06" E	260.02'
L15	N 64°56'47" E	148.53'	L53	N 62°23'26" E	321.65'
L16	N 62°04'57" E	329.39'	L54	N 63°18'58" E	289.95'
L17	N 62°50'45" E	369.74'	L55	N 64°56'28" E	258.28'
L18	N 63°41'47" E	354.96'	L56	N 63°50'00" E	300.35'
L19	N 62°53'20" E	362.16'	L57	N 63°54'56" E	281.52'
L20	N 63°24'49" E	349.90'	L58	N 62°00'01" E	302.51'
L21	N 62°27'32" E	312.91'	L59	N 62°27'14" E	408.49'
L22	N 63°23'02" E	259.51'	L60	N 62°07'23" E	353.78'
L23	N 63°13'21" E	348.12'	L61	N 62°51'56" E	286.16'
L24	N 61°36'27" E	350.49'	L62	N 64°11'45" E	443.32'
L25	N 62°15'15" E	366.44'	L63	N 62°12'22" E	419.72'
L26	N 63°53'29" E	307.37'	L64	N 64°43'34" E	422.66'
L27	N 63°06'51" E	358.68'	L65	N 62°55'48" E	376.02'
L28	N 61°58'57" E	364.57'	L66	N 63°05'48" E	378.87'
L29	N 61°36'09" E	334.63'	L67	N 63°42'37" E	381.99'
L30	N 65°16'36" E	358.27'	L68	N 62°13'47" E	459.05'
L31	N 65°13'13" E	341.33'	L69	N 63°05'51" E	451.11'
L32	N 61°54'26" E	387.56'	L70	N 63°25'43" E	391.95'
L33	N 62°47'51" E	413.29'	L71	N 65°17'51" E	377.94'
L34	N 63°08'07" E	341.50'	L72	N 64°53'01" E	402.06'
L35	N 62°47'59" E	402.86'	L73	N 63°32'26" E	381.21'
L36	N 63°59'58" E	371.71'			
L37	N 64°53'51" E	444.60'			
L38	N 64°36'54" E	370.33'			

to point on mean high water which has a State Plane Coordinate value of N: 13,804,222.56 and E: 3,491,187.92 at the end of this project area. From this end point NGS Monument 'SHELL' bears S 63°32'36" W 9405.92 varas (26,127.56 feet) and Shine OP 100 bears S 63°43'55" W 6151.39 varas (17,087.19 feet).

Surveyed February 28-March 2, 2017.

Field Personnel:
Nedra J. Foster
Alvin Lassiter
John Tucker

Charles T. Cede
11016
A-460

Mrs. S. C. Cartwright
A-432
S-492

Mrs. S. M. Bazinet
A-430
S-492

NOTE: This project associated with USACE Permit No. SWG-2015-00444, CEPR Project No. 1530, GLO SD 20130002

This is a beach renourishment project on and along an eroded portion of Highway 87.

Littoral owner:
McFaddin National Wildlife Refuge
U.S. Fish & Wildlife Service
P. O. Box 1306
Albuquerque, N. M. 87103-1306

Filed in Jefferson County Official Public Records at 2017011143 at 8:23 a.m., on April 5, 2017.

United States of America
95-9503979

Found Benchmark
'SHELL' from which
Refuge fence bears
S 63°32'36" W
9405.92 varas (26,127.56 feet)
N: 13,793,395.49
E: 3,469,664.46
H: 1.24'

SHINE OP 100
N: 13,796,662.25
E: 3,475,865.28
H: 3.85

Found 1/2" IR
with 'Coastal
Surveying' cap

PLACEMENT OF SURVEY LINES IS APPROXIMATE

John J. Taylor
11860
A-465
From end point of project NGS monument 'SHELL' bears S 63°32'36" W 9405.92 varas (26,127.56 feet). Shine OP 100 bears S 63°43'55" W 6151.39 varas (17,087.19 feet).

N: 13804222.56
E: 3491187.92
H: 1.24'

Mean High Water

Charles T. Cede
11014
A-440

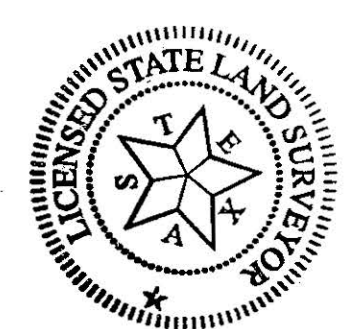
S-425
A-295

McFaddin National Wildlife Refuge
U.S. Fish & Wildlife
V2203/P66

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Jefferson, Sketch No. 12
File Date October 18, 2017

SCALE: 1" = 1111.11'
1" = 400 varas
Revised 3/22/17

Shine & Associates, Inc.
P. O. Box 305
Silsbee, Texas 77656
409-365-9583
TWPIS Firm #10040800



NOTICE: This survey was performed in accordance with Section 33.136, Natural Resources Code, for the purpose of evidencing the location of the shoreline in the area depicted in this survey as that shoreline existed before commencement of erosion response activity, as required by Chapter 33, Natural Resources Code. The line depicted on this survey fixes the shoreline for the purpose of locating a shoreline boundary, subject to movement landward as provided by Section 33.136, Natural Resources Code.

This boundary is on and along an eroded portion of Highway 87. While there is not artificial "fill," there are random remains of the highway. In the vicinity of ME820179, there are old pilings existing below the line of mean high water.

I, Nedra J. Foster, Licensed State Land Surveyor, hereby certify that the line of mean high water shown hereon was correctly surveyed by me on the ground and according to law in February and March 2017 in accordance with Texas Natural Resources Code Sec. 21.042 and in accordance with methodology approved by the surveying division of the GLO. Points on the Gulf of Mexico are on the line of mean high water and lines connecting are meander lines. Given under my hand and seal this 18th day of March, 2017.

Nedra J. Foster
Nedra J. Foster
Licensed State Land Surveyor



TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Jefferson, Sketch No. 12
File Date 06/20/2018 by R. Kartye

TEXAS GENERAL LAND OFFICE
GEORGE P. BUSH, COMMISSIONER

Surveying Division
Coastal Boundary Survey Approval

Project: McFaddin National Wildlife Refuge Beach Ridge Restoration

Project No: CEPRA 1530 (GLO)
SD20130002 (GLO)

Project Manager: Kelly Brooks, (GLO) Coastal Resources Division

Surveyor: Nedra J. Foster, Licensed State Land Surveyor

Description: Coastal Boundary Survey, dated March 15, 2017, by Nedra J. Foster, Licensed State Land Surveyor, delineating the line of Mean High Water, along the shore of the Gulf of Mexico, same line being the littoral boundary of the following Surveys and Abstracts listed in order west to east: Mrs. S.C. Cartwright, Abstract No. 432, Charles T. Cade, Abstract No. 450, T. & N.O. R.R. Co., Abstract No. 296, Charles T. Cade, Abstract No. 451, T. & N.O. R.R. Co., Abstract No. 295, Charles T. Cade, Abstract No. 449, T. & N.O. R.R. Co., Abstract No. 294 and John J. Taylor, Abstract No. 455, and same line being on the northwestern boundary line of the Gulf of Mexico Submerged Land Tract Nos. listed from west to east: 82, 81, 80, 64 and 65. The Survey was performed in support of a beach nourishment project authorized by Texas General Land Office Permit No. SD20130002, situated at N29°36'22.14" (29.60615°) W94°14'24.99" (94.24028°), WGS84. A copy of the survey has been recorded as Document Number 2017011143 in the Official Public Records of Jefferson County, Texas.

A Coastal Boundary Survey for the above-referenced project has been reviewed and accepted; upon completion of public notice requirements, the survey will be filed in the Texas General Land Office, Archives and Records, in accordance with provisions of the *Texas Natural Resources Code*, Chapter 33.136.

Approved:

Signed: _____


Surveying Division


Date

Approval Filed as: *Tex. Nat. Res. Code* Article 33.136 Jefferson County, Sketch No. 12