

MEMORANDUM FOR NAVIGATION INTERESTS

SUBJECT: Forecast of Dredging and Marine Construction

SNWW – SABINE PASS OUTERBAR AND BANK CHANNEL, JEFFERSON COUNTY, TEXAS
The Hopper Dredge “Liberty Island” Great Lakes Dredge and Dock will begin dredging operations in the Bank Channel moving in an outbound direction. The Placement Areas are on the west side of the channel.

GALVESTON HARBOR AND CHANNEL – GALVESTON HARBOR AND JETTY AND ENTRANCE CHANNELS IN GALVESTON COUNTY, TEXAS

The Hopper Dredge “Glenn Edwards” (Manson Construction) continues operations and has moved to the inside part of Galveston Harbor (approximately from Todds Ship Yards to 53rd St. Placement of the material is offshore and the expected duration of the operations in this reach of the channel is about 40 days.

HSC – CARPENTERS BAYOU TO GREENS BAYOU, IN HARRIS COUNTY, TEXAS

The Cutterhead Dredge “Captain Frank” (Weeks Marine) will begin dredging Houston Ship Channel beginning at Carpenter’s Bayou and working upstream to Greens Bayou. Material will be placed at Lost Lake Placement Area.

GIWW – ROLLOVER PASS TO GALVESTON CAUSEWAY, IN GALVESTON COUNTY, TEXAS

The Dredge “E.W. Elleffsen” (Weeks Marine, Inc.) will start dredging the Bolivar Flare on Monday after their pipeline is finished. The submerged dredge pipe extends across the bay waters around the Bolivar Ferry Landing towards the North Jetty and into Little Beach on the east side of Fort Travis. Placement of the material will be on Little Beach. The expected duration to dredge the Bolivar Flare is about two weeks. The work will then start on Rollover Pass with a different dredge. At this time the Dredge “Venture” is expected to be the dredge plant used for this portion of the contract.

GIWW - DEBRIS REMOVAL FROM DREDGE PLACEMENT AREAS HIGH ISLAND, TEXAS - PORT BOLIVAR, TEXAS

Debris Removal from Dredge Placement Areas will commence on the GIWW from High Island, TX to Port Bolivar, TX on Thursday, May 14, 2009, and will continue until further notice. Tow boats and barges will be staged on the inbound side of channel toward Galveston. (Approximate GIWW Miles 320 - 345) Removal operations will be performed 7 days a week, 12 hours per day, 0700 to 1900 hours.

It is requested that mariners contact the M/V Cheryl Ann, M/V Miss Emily, M/V Miss Jan, and/or M/V Miss Sally on channels 13, 16 or working channel 67, 30 minutes prior to transiting the area.

For debris removal operations, it is requested that mariners transit at their slowest safe speed to minimize wake and proceed with caution after passing arrangements have been made.

MATAGORDA SHIP CHANNEL – MATAGORDA PENINSULA TO POINT COMFORT IN MATAGORDA AND CALHOUN COUNTIES, TEXAS

The Dredge “Jason LaQuay” is currently working around beacon 32 and work generally towards the west. Dredging operations is scheduled on the Matagorda Ship Channel through late August 2009.

**CORPUS CHRISTI SHIP CHANNEL, TEXAS – HUMBLE BASIN TO VIOLA TURNING BASIN
IN NUECES COUNTY, TEXAS**

Dredge “John C. LaQuay” is currently at the mouth of the Inner Harbor pumping in PA 1 on the north side of the channel. Dredge will continue to work in this area on the federal channel, port docks or in the open bay during July. Dredge operations is scheduled to be in the CCSC through late September 09.

CORPUS CHRISTI SHIP CHANNEL, TEXAS – Removal of Mooring Dolphins

Work continues on the demolition of the mooring structures adjacent to the CCSC in the Naval Station Ingleside area. The contractor’s barges are outside of the federal channel while working the dolphins, but increased activity in this area should be expected due to this work.

**CORPUS CHRISTI SHIP CHANNEL, TEXAS – LAQUINTA CHANNEL AND JEWEL FULTON
CANAL IN NUECES COUNTY, TEXAS**

Contract awarded on 26 June 2009. Work barges and associated equipment may be transiting the La Quinta Channel during July accessing Placement Area 13.

**GULF INTRACOASTAL WATERWAY, TEXAS – CHANNEL TO VICTORIA AND CHANNEL
TO SEADRIFT, CALHOUN COUNTY, TEXAS**

Dredge “JN Fisher” has commenced dredging, and is placing material into PA 1. The dredge will be on the project through the end of September 2009 working in the Lower Reach and Channel to Seadrift.

- » *Mariners are urged to transit at their slowest safe speed to minimize wake and proceed with caution after passing arrangements have been made.*
- » *Dredging operations are continuous, 24 hrs, 7 days, unless otherwise noted.*
- » *Dredging operations will continue through the month unless otherwise indicated.*
- » *Dredges monitor channel 13 and/or 16 on marine VHF radio, respective dredges should be contacted for coordination of passing and movement near operations.*

DISTRICT ENGINEER
CORPS OF ENGINEERS
GALVESTON DISTRICT

DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1229
GALVESTON, TEXAS 77553-1229

JUNE 2009
HYDROGRAPHIC BULLETIN

CHANNELS WITH PROJECT DEPTHS UNDER 25 FEET

A report of the depths available for navigation in the Federal Project Waterways of the Galveston District

★ Indicates changes from previous report

● Indicates dredging under contract

★● Indicates changes from previous report and dredging under contract

Distances are in statute miles

Depths are based on Corps of Engineers mean low tide datum

JUNE 2009

PROJECT DIMENSIONS

PROJECT CONDITIONS

Shallow Draft Channels	Date of Survey	Feet Width	Miles Length	Feet Depth	Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	Symbols
								★●⊠
Gulf Intracoastal Waterway Main Channel								
Port Arthur - High Island (GIWW continues thru Sabine River)	17-Jun-09	125	53.1	12	9.0	10.8	9.6	★
High Island - Galveston Bay	5/26/09	125	30.0	12	10.6	12.3	12.3	★
Across Galveston Bay	3/23/09	125	7.2	12	12.3	14.9	13.5	★
Alternate Route via Galv. Ch. (Reopened)	26-May-09	125	10.3	12	8.5	8.1	7.2	★
Galveston Bay - Chocolate Bayou	18-Jun-09	125	19.0	12	9.7	11.0	10.9	★
Chocolate Bayou - Freeport Harbor	22-Jun-09	125	19.0	12	10.6	11.7	9.8	★
Freeport Harbor - Brazos River	18-Jun-09	125	5.9	12	11.4	11.8	12.3	★
Brazos River Crossing	16-Jun-09	125	0.7	12	12.4	12.8	10.7	★
Brazos River - San Bernard River	16-Jun-09	125	4.0	12	13.7	15.2	14.2	★
San Bernard to Colorado River	28-Apr-09	125	35.6	12	8.6	9.3	8.4	★
Colorado River Crossing	25-Apr-09	125	1.0	12	8.6	10.1	8.6	★
Colorado River - Matagorda Bay (Mile 461.6 WHL)	5/17/09	125	20.1	12	2.1	2.1	8.6	★
Mile 461.6 - Port O'Connor	2-May-07	125	11.1	12	5.0	5.5	9.3	⊠
Natural Bay Bottom	26-Mar-09	125	0.0	12	9.7	11.5	11.1	⊠
Port O'Connor - San Antonio Bay	8-Apr-09	125	19.0	12	7.3	10.5	8.2	⊠
Across San Antonio Bay	3-Mar-09	125-235	8.6	12	3.6	11.1	9.3	⊠
San Antonio Bay - Aransas Bay (Light 1)	9-Apr-09	125	10.4	12	10.1	11.3	12.5	⊠
Across Aransas Bay	3-Mar-09	125	13.8	12	3.6	11.2	9.3	
Aransas Bay to Corpus Christi Ship Channel	6-Apr-09	125	14.4	12	3.6	10.9	9.0	⊠
Alternate Route via Lydia Ann Channel:								
Aransas Bay 49 to Light 83	4-Dec-07	125	7.9	12	10.0	11.0	11.4	⊠
Light 83 to Corpus Christi Ship Channel	10-Oct-07	125	3.8	12	9.5	9.0	8.0	⊠
Corpus Christi Ship Channel to S. Bird Island	6-Jun-09		25.2		9.4	12.2	10.4	⊠★
S. Bird Island to Light 175	6-Jun-09	125	22.5	12	8.7	10.2	11.0	⊠★
Light 175 - Banderia Island	6-Jun-09	125	21.6	12	8.9	10.6	11.0	⊠★
Banderia Island - Channel to Port Mansfield	6-Jun-09	125	23.2	12	10.3	11.1	10.1	⊠★
Channel to Port Mansfield - Arroyo Colorado	6-Jun-09	125	14.5	12	11.0	11.4	8.2	⊠★
Arroyo Colorado - Port Brownsville	7-Jun-09	125	37.6	12	10.7	11.1	10.3	⊠★

JUNE 2009

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Shallow Draft Channels	Date of Survey	Feet Width	Miles Length	Feet Depth	Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	Symbols
								★●⊠
Gulf Intracoastal Waterway Tributary Channels								
Adams Bayou Channel								
Channel	39981	100	1.6	12	3.9	7.1	7.7	★
Double Bayou								
4.1 Miles in Bay to Mouth of Bayou	3-Feb-09	125	4.1	7	2.0	2.0	4.0	⊠
Mouth of Bayou to 2 Miles above Mouth	3-Feb-09	100	2.0	7	2.0	3.0	4.0	⊠
Cow Bayou Channel								
Channel	18-Jun-09	100	7.1	13	7.6	7.9	6.7	★
Orangefield Turning Basin	17-Jun-09	300	0.1	13	2.0	1.7	5.1	★
Offatts Bayou Channel								
Channel	2/18/09	125	2.2	12	4.6	5.7	4.7	★
Chocolate Bayou Channel								
Bay Channel	4/23/09	125	5.6	12	9.2	10.9	9.8	★
Land Cut	4/23/09	125	2.9	12	9.4	10.6	9.9	★
San Benard River Channel								
Mile 0 to Milw 0.5	2/21/09	1032-100	0.5	9	3.6	7.7	2.9	★
Mile 0.5 to Mile 3.75	2/21/09	100	3.3	9	7.4	9.2	6.1	★
Mile 3.75 to Mile 8.0	4/15/94	100	4.3	9	n/a	9.0	n/a	⊠
Mile 8.0 to Milw 20.5	4/15/94	100	12.5	9	n/a	9.0	n/a	⊠
Mile 20.5 to Mile 25.2	4/15/94	100	4.7	9	n/a	9.5	n/a	⊠
Mile 25.2 to Mile 26.0	4/15/94	100	0.0	9	n/a	9.0	n/a	⊠
Mouth Of The Colorado River								
Mile 0 (Gulf) to Mile 0.8	3/18/09	200	0.8	15	0.1	0.3	0.6	⊠
Mile 0.8 to Mile 2.5	1/22/09	100	1.7	12	1.1	2.9	3.5	★
Mile 2.5 to Mile 7.11 (GIWW)	1/22/09	100	4.6	12	8.9	9.6	6.3	★

JUNE 2009

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		Feet Width	Miles Length	Feet Depth	Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	
Colorado River Channel								
By-Pass Channel	1/11/09	100	0.9	9	11.1	6.9	2.0	★
Mile 0 (GIWW) to Mile 2	1/20/09	100	2.0	9	10.0	8.7	7.3	★
Mile 2 to Mile 8	1/21/09	100	6.0	9	3.4	5.6	5.5	★
Mile 8 to Mile 13.5	1/21/09	100	5.5	9	1.6	3.9	2.9	★
Mile 13.5 to Mile 15.5	1/20/09	100	2.0	9	0.6	2.4	3.1	★
Turning Basin	1/20/09	100	0.1	9	4.7	8.0	8.1	★
Channel To Palacios								
Mile (GIWW) to Light 40	11-Oct-08	125	10.0	12	9.5	10.3	10.5	⊠
Light 40 to City Basin	12-Oct-08	125	6.2	12	11.2	11.6	10.9	⊠
City Basin	13-Oct-08	150	0.1	12	11.4	12.6	12.3	⊠
Entrance Channel to Municipal Basin	13-Oct-08	400-130	0.1	12	10.9	10.9	11.9	⊠
Municipal Basin	13-Oct-08	240	0.2	12	12.3	11.8	11.8	⊠
Channel To Port Lavaca And Red Bluff								
Port Lavaca Channel	15-Oct-08	125	4.1	12	5.2	5.2	3.4	⊠
Lynn Bayou Turning Basin	15-Oct-08	30-300	0.1	12	7.7	8.1	7.7	⊠
Port Lavaca Harbor of Refuge:								
Approach Channel	14-Oct-08	125	2.1	12	5.3	5.4	5.1	⊠
North-South Basin	14-Oct-08	300	0.3	12	3.3	11.0	11.5	⊠
East-West Basin	14-Oct-08	250	0.3	12	11.4	12.1	12.1	⊠
Extension to Red Bluff via Lavaca and Navidad River								
Mile 0 to Mile 6.5	1-May-07	100	6.5	6	1.5	1.5	1.4	⊠
Mile 6.5 to F.M. Rd. 616	15-Jun-99	100	13.7	6	4.0	4.0	4.0	⊠

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					Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	
Channel to Victoria								
Mile 0 (GIWW) to Mile 11	8-Jun-09	125	11.0	12	14.7	14.5	13.9	★☆
Easterly Connecting "Y" Channel	12-Mar-08	125	0.8	12	11.0	12.0	13.0	●
Westerly connecting 'Y' Channel	12-Mar-08	125	0.8	12	11.0	11.0	11.0	●
Mile 11 to Mile 14	15-Sep-08	125	3.0	12	9.8	11.6	10.0	●
Mile 14 to Mile 29	15-Sep-08	125	15.0	12	10.5	11.5	11.6	☐
Mile 29 to Mile 34.7	12-Mar-08	125	5.7	12	8.5	12.5	10.0	
Turning Basin	19-Aug-06	125-818	0.2	12	14.5	15.0	15.0	
Connecting Channel to Seadrift	27-Jul-06	100	2.0	9	5.5	5.5	5.5	●
Seadrift Turning Basin	27-Jul-06	230	0.0	9	8.4	9.2	8.4	●
Channel to Fulton								
Channel	9-Aug-07	100	0.5	12	5.5	7.0	5.0	☐
Turning Basin	9-Aug-07	200	0.2	12	7.0	8.0	7.0	☐
Channel to Rockport								
Channel	8-Aug-07	100	6.8	9	9.7	9.0	4.0	☐
Harbor Basin	8-Aug-07	350	0.2	9	2.5	8.0	7.5	☐
Channel to Aransas Pass								
Channel	26-Jun-07	125-175	6.1	14	11.0	11.0	11.0	☐
Turning Basin	9-Aug-06	300	0.4	14	13.6	14.0	14.4	☐
Connecting Channel	9-Aug-06	125	0.1	14	15.0	15.0	15.0	☐
Connecting Brown Harbor	9-Aug-06	50-510	0.4	14	14.0	14.0	14.7	☐
Channel to Port Aransas								
Channel	15-Sep-06	100	0.2	12	9.5	9.8	8.5	
Turning Basin	15-Sep-06	200-400	0.2	12	9.5	9.5	7.7	

JUNE 2009

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								★●⊕
Channel to Port Mansfield								
Entrance Channel	1-Jun-09	250	0.7	16	9.7	12.4	14.4	★
Mile 0.7 to Mile 1.3	8-Dec-08	100-300	0.6	14	17.2	17.9	20.1	☐
Mile 1.3 to Mile 3	8-Dec-08	100	1.7	14	9.9	10.4	10.7	☐
Mile 3 to Mile 6	8-Dec-08	100	3.0	14	12.2	12.6	12.6	☐
Mile 6 to Main Channel (GIWW)	11-Jun-09	100	2.9	14	10.2	10.6	10.4	⊕
Entrance Curves	8-Dec-08	200	0.6	12	5.5	5.6	5.3	●
Main Channel to Turning Basin	11-Jun-09	125-200	0.9	14	8.6	9.9	8.2	⊕
Turning Basin	8-Dec-08	200-400	0.7	14	9.0	9.0	7.6	☐
Shrimp Basin	8-Dec-08	350	0.3	12	12.0	12.3	12.0	☐
Channel to Port Harlingen								
North Wye	14-Nov-08		x	12	7.4	7.2	7.1	●
South Wye	14-Nov-08		x	12	6.0	6.9	6.8	●
Mile 0 to Mile 8	19-Apr-09	200-125	8.0	12	13.7	14.0	13.9	●
Mile 8 to Mile 20	28-Mar-09	125	12.0	12	10.7	13.8	11.4	●
Mile 20 to Mile 25.9	1-May-09	125	5.9	12	11.1	14.3	14.0	⊕
Turning Basin	3-Apr-09	400	0.1	12	15.7	14.9	12.7	●
Side Channels at Port Isabel								
60-foot channel	1-Aug-07	60	0.2	12	12.5	12.5	11.2	☐
125-foot channel	1-Aug-07	125	1.1	12	9.0	8.0	7.0	☐
125-foot channel - South Leg	1-Aug-07	125	1.1	12	8.5	11.0	9.5	☐
Port Isabel Small Boat Harbor								
Entrance Channel	23-Apr-07	75	1.5	9	2.5	2.5	2.0	☐
Harbor Channel	23-Apr-07	50	0.3	7	2.0	2.0	2.0	☐
Basin	23-Apr-07	50-500	0.3	6	4.5	4.4	3.0	☐

JUNE 2009

PROJECT DIMENSIONS

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					Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	
Houston Ship Channel, Tributary Channels								
Cedar Bayou								
Houston Ship Channel to U.S. Steel Dock	12-May-09	100	5.5	11	4.0	2.0	1.0	★
Atkinson Island								
Barge Mooring Basin	01/15/02	100-150	1.8	12	9.4	9.5	9.3	⊠
Greens Bayou Channel								
First Bend to Parker Brothers Slip	6-Jun-05	150-100	1.3	15	9.8	11.6	10.2	⊠
Brady Island Channel								
Upstream from Cypress Str. Bridge		50	0.3	10	13.0	12.0	10.0	⊠
Downstream from Cypress Str. Bridge		50	0.5	10	7.0	8.0	8.0	⊠
Channel in Buffalo Bayou								
Houston Turning Basin to 69th Street Bridge	9-Mar-09	60	0.8	10	12.0	12.0	12.0	⊠
69th Street Bridge to Lockwood Drive Bridge	9-Mar-09	60	1.5	10	8.0	7.0	5.0	⊠
Lockwood Drive Bridge to Jensen St. Bridge	9-Mar-09	60	1.7	10	8.0	7.0	5.0	⊠
Turkey Bend Channel	9-Mar-09	60	0.8	10	6.0	7.0	6.0	⊠
Jensen Street Bridge to Southern Pacific Dock	3/9/2009	60	0.6	9	5.0	5.0	3.0	⊠

JUNE 2009

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								★●☆
Usable Depths in Other Small Active Channels								
Channel to Port Bolivar		200	0.1	14				
Dickinson Bayou								
Light 2 to Light 27	1-Nov-08	60	9.9	6	6.0	6.0	5.0	☐
Light 27 to Highway 146 Bridge	13-Oct-08	60	1.5	6	1.0	2.0	1.0	☐
Channel to Liberty								
Houston Ship Channel to Smith Point	14-Mar-07	150	6.4	9	1.0	2.0	2.0	☐
Anahauc	27-Feb-09	100	6.4	6	1.0	2.0	2.0	☐
Anahauc Channel to Texas Gulf Sulphur Slip	27-Feb-09	100	11.3	6	0.0	0.0	0.0	☐
Texas Gulf Sulphur Slip to Devers Canal		100	9.5	6	0.0	4.0 ft at CL	0.0	☐
Devers Canal to South Liberty Oil Field		100	12.2	6	0.0	+0.4' x 100'	0.0	☐
South Liberty Oil Field to Cut Off Channel		100	2.2	6	0.0	0.1, +2.6, +1.6	0.0	☐
Cut Off Channel to Liberty		100	3.1	6	0.0	0.2, +1.6, +2.6	0.0	☐
Clear Creek And Clear Lake								
Entrance Channel	26-Feb-09	75	3.3	9	6.0	6.0	6.0	☐
North Fork Channel		60	0.7	7	0.0	0.0 ft by 60'	0.0	☐
Clear Lake Channel	26-Feb-09	60	2.8	7	4.0	4.0	3.0	☐
Clear Creek Channel			3.8		0.0	7.0 ft by 60'	0.0	☐
File Mile Cut	31-Jan-09	125	1.9	12	7.0	7.0	6.0	☐
Jewel Fulton Canal								
Canal	16-Oct-08	100	0.9	16	11.6	13.8	14.5	
Basin	16-Oct-08		0.1	16	14.0	13.5	14.0	
Rincon Canal								
Approach Channel	19-Nov-07	100-567	2.9	10	10.0	10.0	10.0	☐
Connecting Channel	26-Nov-07	275	0.4	10	11.5	12.0	12.0	☐
Canal "A"	15-Feb-07	100-125	0.9	10	10.0	11.0	11.0	☐
Turning Basin	15-Feb-07	275	0.1	10	11.2	11.4	11.9	☐

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		Feet Width	Miles Length	Feet Depth	Left 1/4 Channel (Feet)	Middle 1/2 Channel (Feet)	Right 1/4 Channel (Feet)	
Brownsville Fishing Boat Harbor								
Entrance Channel	29-Jun-07	100	0.2	15	13.4	17.2	13.5	
Connecting Channel	29-Jun-07	265	0.2	15	14.4	14.5	14.0	
West Connecting Channel	29-Jun-07	265	0.2	15	13.8	14.6	14.8	
West Basin	29-Jun-07	305-370	0.3	15	14.4	14.1	12.5	
Middle Basin	29-Jun-07	305-370	0.2	15	12.6	15.0	13.4	
East Basin	29-Jun-07	305-370	0.1	15	13.5	13.5	13.5	

Notes:

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DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1229
GALVESTON, TEXAS 77553-1229

JUNE 2009
HYDROGRAPHIC REPORT

CHANNELS WITH PROJECT DEPTHS 25 FEET OR OVER

A report of the depths available for navigation in the Federal Project Waterways of the Galveston Distric

★ Indicates changes from previous report

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Deep Draft Channels	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)	Symbols
									★●☐
SABINE-NECHES WATERWAY									
Sabine Pass:									
Sabine Bank Channel	31-May-09	800	14.7	42	36.42	37.16	39.78	33.55	★
Outer Bar Channel	29-May-09	800	3.4	42	38.75	41.50	38.89	36.37	★
Jetty Channel	22-Apr-09	800-500	4.1	40	32.21	43.82	41.95	31.79	☐
Pass Channel	22-Apr-09	500-1150	5.6	40	27.44	35.43	41.21	21.10	☐
Anchorage Basin	23-Apr-09	1500	1.6	40	35.04	23.02	13.09	0.50	☐
Port Arthur Canal	27-Apr-09	500	5.5	40	34.49	39.49	38.13	31.15	☐
Junction-Port Arthur Canal and Sabine-Neches Canal	24-Jun-09	400-1200	1.3	40	33.67	38.25	35.02	33.02	★
Entrance to Port Arthur Turning Basins	24-Jun-09	282-735	0.4	40	37.67	38.20	37.60	34.58	★
Port Arthur East Turning Basin	24-Jun-09	370-547	0.3	40	36.51	38.30	38.10	37.20	★
Port Arthur West Turning Basin	24-Jun-09	350-735	0.3	40	37.39	37.80	38.90	33.80	★
Channel from Port Arthur West Turning Basin to Taylors Bayou Turning Basin	24-Jun-09	200-350	0.6	40	29.83	41.61	39.20	37.30	★
Taylors Bayou Turning Basin	24-Jun-09	90-1233	0.7	40	34.24	41.34	42.11	40.83	★
Sabine-Neches Canal:									
Junction with Port Arthur Canal to Neches River	1-May-09	400	11.1	40	29.55	36.07	36.96	29.60	☐
Neches River to Sabine River (Section B)	16-Jun-09	200	4.5	30	19.70	21.20	19.35	16.15	★

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PROJECT DIMENSIONS

PROJECT CONDITIONS

Deep Draft Channels	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)	Symbols
									★●☉
Neches River Channel:									
Mouth to Smith Bluff Cut-off	2-Jun-09	400	9.58	40	26.26	27.90	28.82	29.16	★
Turning Basin at Deer Bayou	26-May-09	700	0.30	40	37.45	36.96	33.75	33.34	★
Turning Basin at Smiths Bluff	2-Jun-09	1400-400	0.24	40	37.63	35.52	35.92	35.14	★
Smith Bluff Cut-off to Maneuvering Area at Beaumont Turning Basin	3-Jun-09	400	8.40	40	34.31	38.10	38.39	31.62	★
Turning Basin @ mile 40.3	2-Jun-09	400-1306	0.28	40	34.57	38.10	40.10	37.80	★
Channel Extension C	2-Jun-09	350	0.23	36	34.67	35.92	34.97	31.47	★
Maneuvering Area at Beaumont Turning Basin	3-Jun-09	varies	0.40	40	25.91	38.81	36.11	35.21	★
Beaumont Turning Basin Extension	0-Jan-00	400-535	0.28	34	35.69	37.81	27.98	24.35	☐
Beaumont turning Basin (Extension) (Not a Federal Channel) 2.6		300		34	34.92	33.45	27.05	23.45	★
Beaumont Turning Basin to vicinity of Bethlehem Shipyards	3-Jun-09	200	1.13	30	15.09	18.97	21.00	13.67	★
Sabine River Channel:									
Mouth to Orange Municipal Slip	16-Jun-09	200	6.80	30	21.57	25.76	29.00	23.98	★
Orange Turning basin	16-Jun-09	200-1400	0.66	30	26.20	26.98	28.31	31.26	★
Orange Municipal Slip	17-Jun-09	150-200	0.57	30	24.72	28.10	25.40	20.94	★
Orange Municipal Slip to Old U.S. Highway 90 Bridge Site	16-Jun-09	200	2.00	30	27.80	26.68	30.22	27.10	★
Channel around Orange Harbor Island	17-Jun-09	151-200	2.40	25	7.13	10.62	5.83	5.98	★

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PROJECT DIMENSIONS

PROJECT CONDITIONS

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									★●☉
GALVESTON HARBOR									
Entrance Channel	28-May-09	800-1000	8.60	47	43	46	46	37	★
Outer Bar Channel	28-May-09	800	1.70	47	40	45	48	47	★
Inner Bar Channel	30-May-09	800	3.30	47	41	45	46	38	★
Anchorage Basin	9-Jun-09	3100	1.90	34	21	19	20	10	★
Bolivar Roads Channel	30-May-09	800	0.85	47	47	49	46	45	★
Bolivar Roads to Exxon Oil Dock	30-Jun-09	1125	1.64	40	25.13	41.98	44.64	27.45	☉
Exxon Oil Dock to Todds Shipyard	30-Jun-09	1125	1.50	40	33.94	42.11	31.61	18.46	☉
Todds Shipyards to Pier B (43rd St.)	8-May-09	1075	1.30	40	34.97	37.46	27.71	14.3	☉
TEXAS CITY HARBOR									
Bolivar Roads to Turning Basin	23-Feb-09	400	6.80	40	36.05	39.82	42.1	38.6	★
Texas City Turning Basin	16-Jun-09	1200	0.81	40	36.19	35.15	35.14	34.02	☐
Industrial Canal	20-Mar-09	250-1200	1.70	40	39.52	40.4	40.9	37.97	☐
Industrial Turning Basin	20-Mar-09	1000	0.22	40	38.18	40.78	40.78	40.24	★
HOUSTON SHIP CHANNEL									
Bolivar Roads to Red Fish Light 1	30-Mar-09	530	12.38	45	42	45	45	42	☐
Red Fish Light 1 to Beacon 76 (Turn)	30-Mar-09	400	8.33	45	35	45	45	39	★
Beacon 76 to Lower End Morgans Point Cut	16-Jan-09	530	5.49	45	35	45	43	35	☐
Bayport Channel									
Flare at Houston Ship Channel	19-May-09	5243-300	0.50	40	40	42	41	40	★
Entrance Channel	19-May-09	300	3.12	40	35	39	38	34	★
Turning Basin	19-May-09	300-1600	0.46	40	35	34	35	33	★

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PROJECT DIMENSIONS

PROJECT CONDITIONS

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									★●☐
Lower End Morgans Point Cut to Exxon Oil Co. Slip	24-Sep-08	400-525	4.36	45	32	37	43	31	☐
Barbours Terminal Channel									
Flare at Houston Ship Channel	25-Jun-09	1222-300	0.40	40	36	37	35	34	★
Entrance Channel	25-Jun-09	300	0.62	40	41	45	46	38	★
Turning Basin	25-Jun-09	300-1900	0.52	40	45	43	40	38	★
Exxon Oil Co. Slip to Carpenter Bayou	19-Jun-09	400-525	5.60	45	41	46	45	40	★
Carpenter Bayou to Green Bayou	22-Sep-08	400-300	5.40	40-45	32	36	33	31	☐
Entrance to Greens Bayou to First Bend Above Mouth	1-Jun-09	500-175	0.37	36	30	31	32	32	★
Greens Bayou to Hunting Bayou (Upper End)	31-May-09	300	2.20	40	34	38	40	35	★
Turning Point at Hunting Bayou	31-May-09	600	0.26	40	34	37	39	35	★
Hunting Bayou to Southern Pacific Slip	31-May-09	300	3.50	40	34	37	40	33	★
Turning Point at Clinton Island	31-May-09	700	0.30	40	39	41	36	33	★
Southern Pacific Slip to Turning Basin Wharf 15	31-Mar-09	300	2.98	36	34	37	36	32	★
Turning Point at Brady Island	1-Apr-09	422	0.21	36	32	34	34	33	☐
Turning Basin	1-Apr-09	250-1000	0.58	36	26	28	32	29	☐
Upper Turning Basin	1-Apr-09	150	0.26	36	19	24	21	14	☐

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PROJECT DIMENSIONS

PROJECT CONDITIONS

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									★●☉
FREEPORT HARBOR									
Outer Bar Channel	23-May-09	400	4.92	47	43.52	45.05	44.8	40.96	★
Jetty Channel	23-May-09	400	1.35	45	41.2	45.36	45.11	39.97	★
Lower Turning Basin	23-May-09	750	0.13	45	37.38	40.82	43.98	37.66	★
Channel to Brazosport Turning Basin	23-May-09	400-600	0.48	45	38	42.3	42.1	37.1	★
Brazosport Turning Basin	23-May-09	500-100	0.28	45	40.2	43.42	41.53	38.35	★
Channel to Upper Turning Basin	23-May-09	280-750	1.03	45	42.1	44.59	45.23	41.68	★
Upper Turning Basin	23-May-09	600-1190	0.18	45	43.69	44.71	44.59	43.9	★
Brazos Harbor Approach Channel	21-May-09	200-650	0.53	36	36.7	38.33	39.34	39.8	★
Brazos Harbor Turning Basin	21-May-09	750	0.11	36	34.04	37.32	38	38.43	★
MATAGORDA SHIP CHANNEL									
Sea Bar and Jetty Channel	10-May-09	300	3.69	38	38.3	38.2	38.9	37.8	★
Matagorda Peninsula to Lt. 48	12-Jun-09	300-200	12.47	36	36.4	37.27	37.78	36.22	☉
Light 48 to Alcoa Channel	5-May-09	200	5.54	36	30.09	33.22	29.65	27.85	☉
Alcoa Channel to Turning Basin	7-May-09	200-399	1.13	36	29.07	32.86	30.52	26.61	☉
Point Comfort Turning Basin	7-May-09	1000	0.19	36	36.44	36.36	36.56	36.43	☉

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PROJECT DIMENSIONS

PROJECT CONDITIONS

Deep Draft Channels	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)	Symbols
									★●☉
CORPUS CHRISTI SHIP CHANNEL									
Aransas Pass:									
Sea Bar Channel	12-May-09	700-600	2.79	47	45.1	46.5	46.6	43.9	★
Jetty Channel	12-May-09	600	1.28	47-45	54.7	48.6	43.4	46.2	★
Inner Basin at Harbor Island	12-May-09	600-1559	0.63	45	51.6	57	56.7	52.9	★
Inner Basin at Main Channel	12-May-09	600	0.63	45	38.8	45.5	40.4	39.2	★
Humble Basin to Junction at La Quinta Channel	18-May-09	600-500	10	45	37.9	44.8	44.7	43.3	☉
La Quinta Channel Junction to Bcn. 82	19-May-09	400	9.66	45	40.7	44.8	47.4	39.6	☉
Bcn. 82 to Main Turning Basin	4-Jun-09	400-300	0.91	45	45.2	48.5	47	45.8	☉
Main Turning Basin	19-Mar-09	300-800	1.21	45	40.4	44.8	45.4	38.9	●
Industrial Canal	19-Mar-09	400	0.59	45	39.4	45.8	48.1	42.3	●
Avery Point Turning Basin	19-Mar-09	400-975	0.47	45	41	43.5	44.9	40.9	●
Tule Lake Channel	19-Mar-09	200-400	3.79	45	31.4	45.3	45.5	42.2	●
Chemical Turning Basin	1-Aug-07	400-1200	0.48	45	45.6	47	46.3	43.7	●
Tule Lake Turning Basin	26-Jul-08	1200-300	0.45	45	44.8	46.4	45.8	42	●
Viola Channel	26-Jul-08	300-200	1.71	45	45.6	47	45.5	32.7	●
Viola Turning Basin	26-Jul-08	700-900	0.3	45	44.8	47	46.3	15.4	●
CHANNEL TO LA QUINTA									
Channel	20-Dec-08	300-400	5.49	45	42.5	44.1	43.5	39.4	●
Turning Basin	20-Dec-08	1200	0.35	45	44.0	40.4	44.0	44.2	●

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									★●☒
BRAZOS ISLAND HARBOR									
Brazos Santiago Pass:									
Entrance Channel	29-May-09	300	1.9	44	45.9	45.6	45.1	42	★
Jetty Channel	29-May-09	300-400	1.9	42	42.5	44.4	44.2	41.9	☒
Channel Across Laguna Madre	30-May-09	250	2.9	42	42	43.7	43	42.7	☒
Brownsville Channel:									
Junction Basin to Boca Chica Passing Basin	7-Mar-09	250	4	42	39.3	37.5	35.4	34.5	☒
Boca Chica Passing Basin to Goose Island Passing Basin	8-Mar-09	250	5.4	42	36.5	38.8	39.2	37.4	☒
Goose Island Passing Basin to Brownsvile Turning Basin	8-Mar-09	300	2.8	42	39	41.5	42.1	40	☒
Brownsville Turning Basin Extension	8-Mar-09	500	1.4	42	34.1	38.7	38.2	35.4	☒
Brownsville Turning Basin	8-Mar-09	500-1200	0.5	36	24.6	37.2	37.4	25	☒
Port Isabel Channel:									
East Wye	17-May-09	200	1.2	36	31.6	37.9	37.6	15.8	☒
Turning Basin	15-Mar-09	1000	0.25	36	26.5	29.2	29.2	22.8	●
West Wye	28-Jul-08	200	1	36	30.3	32.2	32.1	28.2	☒

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Notes:

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