

C. VERTICAL AND HORIZONTAL CONTROL

Tide and water level corrections were determined and applied in accordance with Attachment #7 of the Statement of Work*. Tidal zoning as set forth in the Statement of Work was applied. Data from Port Fourchon, LA (8762075) was used as the primary source of tides, while Grand Isle, LA (8761724) was used as a back up. Because there were no outages at the primary station during the survey, the secondary station was not used for any tidal corrections. The following table shows the tidal zone and correctors that were used for this sheet. Tidal data were processed using the 1983-01 epoch. **Filed with original field records*

Descriptive Report to Accompany Hydrographic Survey H12054



Tide Zone	Reference Station	Primary/ Secondary	Time Corrector	Range Ratio
CGM366	8762075	PRIM	-12	1.05
CGM366	8761724	SEC	-48	1.23
CGM717	8762075	PRIM	-12	1.05
CGM717	8761724	SEC	-48	1.23
CGM718	8762075	PRIM	-12	1.05
CGM718	8761724	SEC	-42	1.23
CGM731	8762075	PRIM	-12	1.05
CGM731	8761724	SEC	-42	1.23
CGM732	8762075	PRIM	-6	1.09
CGM732	8761724	SEC	-42	1.27
CGM733	8762075	PRIM	-6	1.17
CGM733	8761724	SEC	-36	1.37
CGM734	8762075	PRIM	-6	1.09
CGM734	8761724	SEC	-36	1.27
CGM735	8762075	PRIM	-6	1.05
CGM735	8761724	SEC	-42	1.23
CGM749	8762075	PRIM	0	1.13
CGM749	8761724	SEC	-36	1.32
CGM750	8762075	PRIM	0	1.09
CGM750	8761724	SEC	-36	1.27
WGM416	8762075	PRIM	-6	1.21
WGM416	8761724	SEC	-36	1.42
CGM364	8762075	PRIM	-6	1.09
CGM364	8761724	SEC	-36	1.27

The horizontal datum for the survey is the North American Datum of 1983 (NAD 83). The projection is Universal Transverse Mercator (UTM) Zone 15 North. The vertical datum for the soundings is Mean Lower Low Water (MLLW).

The tidal data applied to all multibeam echo sounder data was downloaded from the following website:

http://tidesandcurrents.noaa.gov/data_menu.shtml?stn=8768094%20Calcasieu%20Pass,%20LA&type=Historic%20Tide%20Data

ABSTRACT OF TIMES OF HYDROGRAPHY

Project: OPR-K354-KR-09

Contractor Name: C & C Technologies, Inc.

Inclusive Dates: July 23rd, 2009 - August 23rd, 2009

Registry No.: H12054 (Sheet C)

Date: March 2010

Sheet Letter: C

Field Work is Complete

Time (UTC)

Date	Julian Day	Start	End	Year
7/28/2009	209	0025	1143	2009
7/31/2009	212	1647	2400	2009
8/1/2009	213	0000	2400	2009
8/2/2009	214	0000	2400	2009
8/3/2009	215	0000	2400	2009
8/4/2009	216	0000	2400	2009
8/5/2009	217	0000	0725	2009
8/6/2009	218	0437	2400	2009
8/7/2009	219	0000	2400	2009
8/8/2009	220	0000	2400	2009
8/9/2009	221	0000	2400	2009
8/10/2009	222	0000	2400	2009
8/11/2009	223	0000	2400	2009
8/12/2009	224	0000	1947	2009
8/12/2009	224	2315	2400	2009
8/13/2009	225	0000	2400	2009
8/14/2009	226	0000	2400	2009
8/15/2009	227	0000	2400	2009
8/16/2009	228	0000	0539	2009