APPENDIX I. TIDES AND WATER LEVELS

Field Tide Note

A field tide note was not required for H12586.

Final Tide Note

Observed verified water levels for the station in Sandy Hook, NJ (8531680) were downloaded from the NOAA Tides and Currents web site. Water Level correctors were prepared for each zone using the **SABER Create Water Level Files** software. The **SABER Apply Correctors** software applied the water level data to the multibeam data according to the zone containing the nadir beam of each ping.

Please refer to the H12586 Descriptive Report Section C.1 for details regarding final tides for H12586. The water level zoning correctors, based entirely on Sandy Hook, NJ (8531680), were applied to all multibeam data for H12586.

No final tide note was provided by NOAA Center for Operational Oceanographic Products and Services (CO-OPS), Leidos is not required to have a final tide note from CO-OPS.

The on-line times for acquisition of valid hydrographic data are presented in the Abstract Times of Hydrography, H12586 (Table A-1).

Abstract Times of Hydrography

Project: OPR-B310-KR1-13
Registry No.: H12586
Contractor Name: Leidos
Date: 11 April 2014
Sheet Designation: 1
Inclusive Dates: 30 August 2013 - 18 January 2014
Field work is complete.

Begin Date	Begin Julian Day	Begin Time	End Date	End Julian Day	End Time
08/30/2013	242	12:25:12	09/03/2013	246	16:06:07
09/06/2013	249	10:57:57	09/09/2013	252	14:50:26
09/18/2013	261	17:39:49	09/21/2013	261	20:41:03
09/19/2013	262	12:10:14	09/19/2013	262	19:19:47
09/20/2013	263	12:10:41	09/20/2013	263	19:26:52
09/21/2013	264	11:58:35	09/21/2013	264	17:56:34
09/23/2013	266	12:11:04	10/02/2013	266	20:26:34
09/24/2013	267	13:16:27	09/24/2013	267	19:03:29
09/25/2013	268	12:39:01	09/25/2013	268	20:22:36
09/26/2013	269	11:37:30	09/26/2013	269	20:23:20
09/27/2013	270	11:05:29	09/27/2013	270	21:02:41
09/28/2013	271	10:52:23	09/28/2013	271	20:26:19
09/29/2013	272	11:11:34	09/29/2013	272	20:58:44

Begin Date	Begin Julian Day	Begin Time	End Date	End Julian Day	End Time
09/30/2013	273	10:58:18	09/30/2013	273	20:45:20
10/01/2013	274	11:09:41	10/01/2013	274	21:10:58
10/02/2013	275	11:14:09	10/02/2013	275	20:07:43
10/04/2013	277	10:51:09	10/04/2013	277	21:33:12
10/07/2013	280	10:56:26	10/08/2013	280	14:53:52
10/08/2013	281	11:48:01	10/08/2013	281	21:22:29
10/14/2013	287	11:59:33	10/16/2013	287	21:43:43
10/15/2013	288	10:49:14	10/15/2013	288	20:52:20
10/16/2013	289	11:18:45	10/16/2013	289	21:16:08
10/17/2013	290	10:49:09	10/17/2013	290	20:37:39
10/19/2013	292	10:49:02	10/19/2013	292	21:06:31
10/21/2013	294	11:05:54	10/27/2013	294	21:06:02
10/22/2013	295	11:14:39	10/22/2013	295	20:06:35
10/23/2013	296	11:33:26	10/23/2013	296	22:00:43
10/24/2013	297	11:57:19	10/24/2013	297	15:57:27
10/25/2013	298	11:31:44	10/25/2013	298	21:25:21
10/26/2013	299	10:44:58	10/26/2013	299	16:34:27
10/27/2013	300	11:00:57	10/27/2013	300	20:09:13
12/13/2013	347	12:19:30	12/14/2013	347	17:06:11
12/14/2013	348	12:02:42	12/14/2013	348	19:07:15
12/19/2013	353	13:58:19	12/21/2013	353	21:35:29
12/20/2013	354	12:51:27	12/20/2013	354	21:23:31
12/21/2013	355	12:18:43	12/21/2013	355	18:53:06
01/14/2014	014	12:32:02	01/16/2014	014	21:46:07
01/15/2014	015	12:46:00	01/15/2014	015	21:32:37
01/16/2014	016	12:42:22	01/16/2014	016	16:49:27
01/18/2014	018	13:35:09	01/18/2014	018	13:35:31

Table A-1: Abstract Times of Hydrography, H12586

Transmittal Letter to CO-OPS

A transmittal letter to CO-OPS was not required for H12586.

Other Correspondence Relating to Tides

There is no other correspondence relating to tides and/or water levels.