



**OPR-E349-KR-09****H12044****Times of Hydrography**

| <b>Date</b> | <b>Julian Date</b> | <b>Min Time</b> | <b>Max Time</b> |
|-------------|--------------------|-----------------|-----------------|
| 10/04/2009  | 277                | 16:24           | 21:54           |
| 10/05/2009  | 278                | 12:36           | 12:48           |
| 10/11/2009  | 284                | 12:16           | 21:58           |
| 10/20/2009  | 293                | 11:54           | 21:31           |
| 10/21/2009  | 294                | 11:56           | 21:52           |
| 10/22/2009  | 295                | 11:26           | 21:02           |
| 10/23/2009  | 296                | 11:25           | 21:30           |
| 10/27/2009  | 300                | 12:05           | 12:32           |
| 10/28/2009  | 301                | 11:59           | 13:02           |
| 10/29/2009  | 302                | 16:06           | 21:15           |
| 10/30/2009  | 303                | 15:15           | 21:24           |
| 10/31/2009  | 304                | 11:45           | 15:20           |
| 11/03/2009  | 307                | 12:28           | 21:32           |
| 11/04/2009  | 308                | 12:16           | 13:03           |
| 11/05/2009  | 309                | 12:19           | 20:48           |
| 11/07/2009  | 311                | 12:04           | 16:34           |
| 11/08/2009  | 312                | 11:55           | 12:47           |
| 11/09/2009  | 313                | 11:47           | 21:23           |
| 11/10/2009  | 314                | 11:39           | 21:07           |
| 11/15/2009  | 319                | 17:48           | 20:51           |
| 11/16/2009  | 320                | 15:44           | 19:29           |
| 11/19/2009  | 323                | 19:22           | 20:46           |
| 12/14/2009  | 348                | 14:37           | 21:08           |
| 12/15/2009  | 349                | 17:26           | 20:27           |

**FINAL TIDE ZONING  
H12044  
OPR-E349-KR-09**

| <b>Zone</b>   | <b>Time Corrector<br/>(Mins)</b> | <b>Range Ratio</b> | <b>Reference Station</b> |
|---------------|----------------------------------|--------------------|--------------------------|
| <b>SCB108</b> | 48                               | 1.12               | <b>8636580</b>           |
| <b>SCB109</b> | 48                               | 1.29               | <b>8636580</b>           |
| <b>SCB103</b> | 30                               | 1.12               | <b>8636580</b>           |
| <b>SCB102</b> | 30                               | 1.29               | <b>8636580</b>           |
| <b>SCB95</b>  | 18                               | 1.12               | <b>8636580</b>           |
| <b>SCB96</b>  | 18                               | 1.29               | <b>8636580</b>           |

**NOTE: Global Positioning System (GPS) water levels were acquired directly at the survey vessel however, traditional zoning from water level stations were used for submittal. Zoning and verified water level files were provided by CO-OPS.**