



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SERVICE- Office of Coast Survey
Hydrographic Surveys Division: Atlantic Hydro Branch
Norfolk, Virginia 23510

February 11, 2011

MEMORANDUM TO: Marine Chart Division

THRU: CDR Richard T. Brennan, NOAA
Chief, Atlantic Hydrographic Branch

FROM: Matthew J. Wilson
Physical Scientist, Atlantic Hydrographic Branch

SUBJECT: Chart Letter for Survey F00569

F00569 is the shoreline component of NRT3 project OPR-N360-NRT3-09, which includes hydrographic surveys H12074 and H12075. The F00569 submission from the field is composed of a Chart Evaluation File (CEF), originally supplied by the Remote Sensing Division (RSD). NRT3 recorded observations over the course of the survey and annotated the CEF with field comments and recommendations. The annotated CEF was submitted to RSD on November 18, 2009, along with a shape file of a new uncharted pier found in this area. The files were also sent to the Atlantic Hydrographic Branch (AHB) as a “courtesy copy”.

Both H-surveys associated with this project, H12074 and H12075, were reviewed and compiled into H-Cells as per AHB standard procedure; however there was some confusion initially regarding the appropriate action to take with F00569. The Project Instructions state for the data from the ENC Verification investigation to be sent to AHB, however the field clearly remarked that this data was intended entirely for RSD, and sent to AHB for informational purposes only. RSD was contacted to help clarify the appropriate division of duties, and during this time it was confirmed that all CEF annotations were to verify the contents of GC10668 (assigned in the Project Instructions), and the only necessary charting application for AHB is the uncharted pier – the digitized extents of which were included in the F00569 submission. With the exception of the uncharted pier, no new positions were acquired on the shoreline features associated with F00569. All other bathymetry and associated features for this project that require charting consideration from AHB are included in the H12074 and H12075 submissions. Thus, the purpose of this Chart Letter is to inform MCD of the currently uncharted pier in this locality, with the recommendation to update the chart accordingly.

Accompanying this chart letter is an H-Cell product in S-57 format, in Lat Lon NAD-83. The contents of the H-Cell deliverable are listed in the table below. Note there is no correlating survey scale product—this is because there is no bathymetry included in this survey. All bathymetry associated with this project is included in H12074 and H12075.



<u>TABLE 1</u> - Contents of H-Cell Files			
F00569_CS.000		Scale 1:80,000	
Object Class Types	Geographic	Cartographic	Meta
S-57 Object Acronyms	SLCONS		
	COALNE		
	\$CSYMB		

The following software was used during office processing of this H-Cell:

CARIS Bathy DataBASE 3.0 HF9
 CARIS S-57 Composer 2.2

The following nautical charts were used in compiling this H-Cell:

<u>CHART COMPARISON</u>	<u>18445 (33rd Edition, 05/01/2009)</u> Possession Sound to Olympia Corrected through NM 01/29/2011 Corrected through LNM 01/25/2011 Scale 1:80,000
	<u>18448 (34th Edition, 07/01/2006)</u> Puget Sound Seattle to Olympia Corrected through NM 01/29/2011 Corrected through LNM 01/25/2011 Scale 1:80,000
<u>ENC COMPARISON</u>	<u>US4WA10M</u> Puget Sound – Southern Part Edition 16 Application Date 2011/01/19 Issue Date 2011/01/19 Chart 18448

For inquiries regarding field techniques, consult the field's Data Acquisition and Processing Report and F00569 Shoreline Verification Report (both included with this Chart Letter).

The extents of the uncharted pier were generated by NRT3, and then modified slightly by AHB to better correlate with orthoimagery from the U.S. Geological Survey Seamless Data Server (USGS High Resolution Orthoimagery for the Seattle, Washington Urban Area, Publication Date 20090723, Resolution 0.3m).

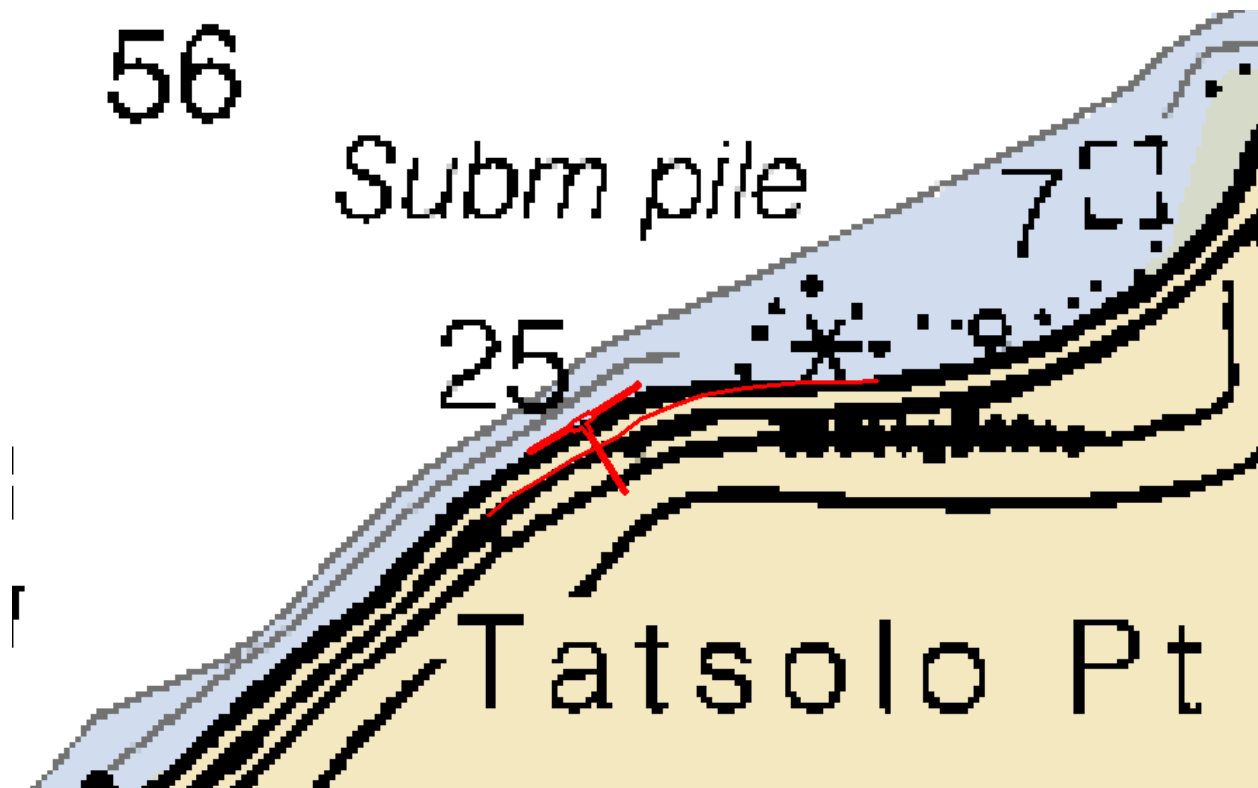
Extents of F00569 Uncharted Pier

Latitude	Longitude
47-08-04.2821N	122-38-49.2540W
47-08-05.4463N	122-38-46.2941W
47-08-05.5154N	122-38-46.3423W
47-08-06.0295N	122-38-45.1122W
47-08-05.9777N	122-38-45.0373W
47-08-07.3266N	122-38-41.8819W
47-08-07.3698N	122-38-41.8852W
47-08-07.4411N	122-38-41.7336W
47-08-07.3619N	122-38-41.6108W
47-08-07.2586N	122-38-41.6562W
47-08-05.8754N	122-38-44.8361W
47-08-05.7552N	122-38-44.7612W
47-08-05.4967N	122-38-45.3055W
47-08-05.0982N	122-38-44.9570W
47-08-05.0651N	122-38-44.9862W
47-08-02.2618N	122-38-42.4885W
47-08-02.1959N	122-38-42.6530W
47-08-04.8847N	122-38-45.0766W
47-08-04.8559N	122-38-45.1410W
47-08-05.3117N	122-38-45.5543W
47-08-05.2436N	122-38-45.6929W
47-08-05.1292N	122-38-46.1544W
47-08-05.2415N	122-38-46.2642W
47-08-04.1402N	122-38-49.0553W
47-08-04.1273N	122-38-49.2716W

These pier extents are included in the S-57 file (F00569_CS.000) which accompanies this Chart Letter, recommended for chart application. The pier is represented in the S-57 file as a shoreline construction object (SLCONS).

It also appears as though the charted shoreline in this region has receded slightly and needs modification. The shoreline in the vicinity of the uncharted pier was delineated with the use of the orthoimagery referenced above, and is included in S-57 file as a coastline object (COALNE). The eastern extent of this coastline aligns with the coastline as observed from GC10668. Finally, a cartographic blue note (\$CSYMB) was placed on the currently charted shoreline, with text to revise the coastline.

Screen capture of the uncharted pier extents and recommended shoreline delineation, with the backdrop of Chart 18448:



Screen captures of the uncharted pier extents and recommended shoreline delineation, with the backdrop of the USGS orthoimagery:





Photos taken by the NRT3 of the uncharted pier:



