

D00182

NOAA Form 76-35A

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Survey

DESCRIPTIVE REPORT

Type of Survey: Investigation

Registry Number: D00182

LOCALITY

State: California

General Locality: San Francisco Bay

Sub-locality: East of the Golden Gate Bridge

2013

CHIEF OF PARTY
Laura Pagano

LIBRARY & ARCHIVES

Date:


NOAA FORM 77-28 (11-72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	REGISTRY NUMBER:
HYDROGRAPHIC TITLE SHEET			D00182
INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.			
State:	California		
General Locality:	San Francisco Bay		
Sub-Locality:	East of the Golden Gate Bridge		
Scale:	1: 10,000		
Dates of Survey:	05/21/2013 to 10/23/2013		
Instructions Dated:	06/10/2013		
Project Number:	S-L919-NRT6-13		
Field Unit:	Navigation Response Team 6		
Chief of Party:	Laura Pagano		
Soundings by:	Multibeam Echo Sounder		
Imagery by:			
Verification by:	Pacific Hydrographic Branch		
Soundings Acquired in:	meters at Mean Lower Low Water		
H-Cell Compilation Units:	<i>meters at Mean Lower Low Water</i>		
Remarks:	<p><i>The purpose of this survey is to provide contemporary surveys to update National Ocean Service (NOS) nautical charts. All separates are filed with the hydrographic data. Any revisions to the Descriptive Report (DR) generated during office processing are shown in bold red italic text. The processing branch maintains the DR as a field unit product, therefore, all information and recommendations within the body of the DR are considered preliminary unless otherwise noted. The final disposition of surveyed features is represented in the OCS nautical chart update products. All pertinent records for this survey, including the DR, are archived at the National Geophysical Data Center (NGDC) and can be retrieved via http://www.ngdc.noaa.gov/.</i></p>		



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
OFFICE OF COAST SURVEY
Silver Spring, Maryland 20910-3282

November 17, 2014

MEMORANDUM FOR: Chief, Pacific Hydrographic Branch

FROM: Ian Colvert  2014.11.17 08:52:17 -08'00'
Acting Team Lead, Navigation Response Team 6

SUBJECT: Submission of Survey D00182

A request from the Navigation Manager and the ORR Scientific Support Coordinator for a NRT6 to do hydrographic survey investigation over the wreck of the Fernstream in the San Francisco Bay, just east of the Golden Gate Bridge. The request came after some concerns came up with regards to the Fernstream possible leaking some fluids by the Coast Guard. Coincidentally, the Office of National Marine Sanctuaries is also interested in this wreck for its historical value.

Soundings were reduced to Mean Lower Low Water (MLLW) using verified tides from tide station San Francisco (9414290), applied via discrete zoning file (L430NRT62012CORP.zdf) for survey DN189 (July 8, 2013).

DN141 (May 21, 2013) is preliminary data and was not used for final products therefore the discrete zoning file (L430NRT62012CORP.zdf) was not applied but is still included with the survey package.

All survey systems and methods utilized during this survey were as described in the NRT6 2013 DAPR.

Side Scan Sonar was acquired at a later date (DN296) to try and obtain greater detail of the wreck. Unfortunately the depth of the wreck made it difficult to create any clear and usable imagery products.

All survey systems and methods utilized during this survey are as described in the NRT6 2013 DAPR.

All data was reviewed for DTONs and none were found.





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Chart comparison was made with Chart 18650. The Hydrographer recommends an updated least depth sounding on the wreck replace the existing sounding on the chart.

DN189 of this survey does meet charting specifications and is adequate to supersede prior data.

Meta Data for D00186	
Project	S-L919-NRT6-13
Survey	D00182
State/Locality	California/San Francisco Bay
Sub Locality	East of Golden Gate Bridge
Scale of Survey	1:10,000
Sonars Used	Kongsberg Simrad 3002
Horizontal Datum	North American Datum of 1983 (NAD83)
Vertical Datum	Mean Lower Low Water (MLLW)
Vertical Datum Correction	Verified Tides, L430NRT62012CORP.zdf
Projection	NAD83 - UTM Zone 10
Field Unit	NRT6
Survey Dates	5/21/2013, 7/8/2013, 10/23/2013
Chief of Party	Laura Pagano
Submission Date	12/3/2013





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Office Notes:

A Tide Note was not requested for this survey. The data has been reviewed and deemed adequate for charting using the verified tide data.



D00182 Feature Report

Registry Number: D00182
State: California
Locality: San Francisco, CA
Sub-locality: East of the Golden Gate Bridge
Project Number: S-L919-NRT6-13
Survey Date: 07/08/2013

Charts Affected

Number	Edition	Date	Scale (RNC)	RNC Correction(s)*
18650	55th	12/01/2007	1:20,000 (18650_1)	[L]NTM: ?
18652	34th	09/01/2007	1:80,000 (18652_1) 1:40,000 (18652_5)	[L]NTM: ?
18649	66th	02/01/2009	1:40,000 (18649_1)	[L]NTM: ?
18645	26th	09/01/2008	1:100,000 (18645_1)	[L]NTM: ?
18640	25th	08/01/2005	1:207,840 (18640_1)	[L]NTM: ?
18680	31st	06/01/2005	1:210,668 (18680_1)	[L]NTM: ?
18010	21st	03/01/2007	1:811,980 (18010_1)	[L]NTM: ?
18022	35th	08/01/2005	1:868,003 (18022_1)	[L]NTM: ?
18007	33rd	02/01/2009	1:1,200,000 (18007_1)	[L]NTM: ?
18020	38th	10/01/2007	1:1,444,000 (18020_1)	[L]NTM: ?
501	12th	11/01/2002	1:3,500,000 (501_1)	[L]NTM: ?
530	32nd	06/01/2007	1:4,860,700 (530_1)	[L]NTM: ?
50	6th	06/01/2003	1:10,000,000 (50_1)	[L]NTM: ?

* Correction(s) - source: last correction applied (last correction reviewed--"cleared date")

Features

No.	Feature Type	Survey Depth	Survey Latitude	Survey Longitude	AWOIS Item
1.1	Wreck	34.90 m	37° 49' 12.0" N	122° 27' 32.4" W	---

1 - Charted Features

1.1) US 0263516414 04835

Survey Summary

Survey Position: 37° 49' 12.0" N, 122° 27' 32.4" W
Least Depth: 34.90 m (= 114.49 ft = 19.081 fm = 19 fm 0.49 ft)
TPU ($\pm 1.96\sigma$): THU (TPEh) [None] ; TVU (TPEv) [None]
Timestamp: 2013-189.00:00:00.000 (07/08/2013)
Dataset: D00182_Feature_Report.000
FOID: US 0263516414 04835(02260FB4F0FE12E3)
Charts Affected: 18650_1, 18649_1, 18652_5, 18652_1, 18645_1, 18640_1, 18680_1, 18010_1, 18022_1, 18007_1, 18020_1, 501_1, 530_1, 50_1

Remarks:

WRECKS/remrks: Wreck confirmed in multibeam

Feature Correlation

Source	Feature	Range	Azimuth	Status
D00182_Feature_Report.000	US 0263516414 04835	0.00	000.0	Primary

Hydrographer Recommendations

Retain position and update depth

Cartographically-Rounded Depth (Affected Charts):

114ft (18650_1, 18649_1, 18652_5, 18652_1)

19ft (18645_1, 18640_1, 18680_1, 18010_1, 18022_1, 18007_1, 18020_1, 530_1)

35m (501_1, 50_1)

S-57 Data

Geo object 1: Wreck (WRECKS)
Attributes: CATWRK - 1:non-dangerous wreck
 EXPSOU - 1:within the range of depth of the surrounding depth area
 QUASOU - 6:least depth known
 SORDAT - 20130708
 SORIND - US,US,graph,D00182

TECSOU - 3:found by multi-beam

VALSOU - 34.896 m

WATLEV - 3:always under water/submerged

Office Comments:

Concur with clarification. The charted wreck was recommended to be deleted and a new area feature wreck covering the extents of the wreckage was recommended to be charted with the surveyed least depth.

APPROVAL PAGE

D00182

Data meet or exceed current specifications as certified by the OCS survey acceptance review process. Descriptive Report and survey data except where noted are adequate to supersede prior surveys and nautical charts in the common area.

The following products will be sent to NGDC for archive

- D00182_DR.pdf
- Collection of depth varied resolution BAGS
- Processed survey data and records
- D00182_GeoImage.pdf

The survey evaluation and verification has been conducted according current OCS Specifications.

Approved: _____

Pete Holmberg

Cartographic Team Lead, Pacific Hydrographic Branch

The survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.

Approved: _____

CDR Benjamin K. Evans, NOAA

Chief, Pacific Hydrographic Branch