W00531

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

DESCRIPTIVE REPORT

Type of Survey:	Basic Hydrographic Survey
Registry Number:	W00531

LOCALITY

State(s):	California
General Locality:	San Francisco Bay
Sub-locality:	ESE of Yerba Buena Island

2019

CHIEF OF PARTY
A. Gilda Barboza

LIBRARY & ARCHIVES

Date:

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

REGISTRY NUMBER:

HYDROGRAPHIC TITLE SHEET

W00531

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(s):	**California**
General Locality:	**San Francisco Bay**
Sub-Locality:	**ESE of Yerba Buena Island**
Scale:	**10000**
Dates of Survey:	**11/04/2019 to 11/07/2019**
Instructions Dated:	**09/30/2020**
Project Number:	**ESD-PHB-2020**
Field Unit:	**eTrac**
Chief of Party:	**A. Gilda Barboza**
Soundings by:	**R2Sonic 2020** (**MBES**) **R2Sonic 2022** (**MBES**)
Imagery by:	**N/A**
Verification by:	**Pacific Hydrographic Branch**
Soundings Acquired in:	**feet at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via https://www.ncei.noaa.gov/. Products created during office processing were generated in NAD83 UTM 10N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

DESCRIPTIVE REPORT MEMO

September 30, 2020

MEMORANDUM FOR: Dave Neff

FROM: Report prepared by Pacific Hydrographic Branch on behalf of field unit
Kurt Brown
Physical Scientist, Pacific Hydrographic Branch

SUBJECT: Submission of Survey W00531

The purpose of the survey was to obtain post-dredge sounding data off of Coast Guard small boat basin on Yerba Buena Island.

Post-dredge survey plot with basic survey information

All soundings were reduced to Mean Lower Low Water using VDatum. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 10.

Soundings were reduced to MLLW using RTK methods. Data were corrected in real time and referenced to the NAD83 ellipsoid using correctors from the Richmond base station. A transformation to NAVD88 was then made in Qinsy using the 2012 geoid model, and then to MLLW using a orthometric height correction of -.251 ft. The -.251 ft. value is derived at the time of survey using static GPS observations on the "Receive Reset 1970" benchmark (referenced to MLLW).

The data was collected in NAD83 State Plane CA3 coordinates, US survey feet. During review a new surface referenced to NAD83 UTM 10N, meters was created using a translation in CARIS BDB.

A DAPR was not submitted.

All data were reviewed for DTONs and none were identified in this survey.

eTrac acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

Depths in the dredged area are 23 to 25 feet. The FFF contains recommended chart updates.

This survey does meet charting specifications and is adequate to supersede prior data.

MATERIAL APPROVAL SUBMITTAL
(See Instructions on Reverse)

TO (Contracting Officer)	FROM	DATE
CONTRACTING OFFICER U.S. COAST GUARD CIVIL ENGINEERING UNIT OAKLAND 1301 CLAY ST, STE 700N OAKLAND, CA 94612	The Dutra Group 2350 Kerner Blvd Ste 200 San Rafael CA 94901	**11/20/2019**

CONTRACT NUMBER 70Z08819CPQQ10600	SUBMISSION NUMBER	SUBMITTAL			
	1	**x**	NEW		RESUBMITTAL
PREVIOUS SUBMISSION NUMBER	CONTRACT NUMBER				

TO BE COMPLETED BY CONTRACTOR			FOR GOVERNMENT USE ONLY			
ITEM NO.	SPECIFICATION SECTION / PARA. NO. / DRAWING NO.	DESCRIPTION OF MATERIAL (Include Type, Model Number, Catalog Number, Mfg., Etc.)	APPROVED	DIS-APPROVED	SEE REVERSE	INITIAL
09	35 20 23	Hydrographic Survey: Post Dredge CGC ASPEN mooring				
11	35 20 23	Hydrographic Survey: Post Dredge CGC SF small boat basin				

TYPED OR PRINTED NAME	SIGNATURE	DATE
Chris Milam	Chris Milam	**11/20/2019**

TO: A. Gilda Barboza, David W. Stalters

O Approved O Disapproval as indicated Above and Subject to Any Applicable Comments on the Reverse Side. Request Resubmittal on Disapproved Items Within _____ Days of Date Shown Below.

TYPED OR PRINTED NAME OF CONSTRUCTION MANAGER	SIGNATURE	DATE
TYPED OR PRINTED NAME OF CONTRACTING OFFICER	SIGNATURE	DATE

Copy of reviewed form to be provided to the Contracting Officer and Contract Specialist

COMMENTS (Number to Correspond with Applicable Item Number on Reverse)

INSTRUCTIONS TO CONTRACTORS

1. The term “material” is defined as articles, supplies, raw materials, equipment, parts, components, and end items that are to be incorporated into the work required by the contract.

2. This form is to be used by contractors for submitting Shop Drawings, Equipment Data, Manufacturer’s Literature and Certificates and Samples of Materials to the Government for approval in accordance with the provisions of this contract. Unless otherwise specified, it is to be prepared in 3 copies, signed, and provided to the Construction Manager with appropriate attachments.

3. Item(s) to be approved will be clearly tabbed or identified. Data pertaining to item(s) to be approved will be clearly identified or tabbed, particularly where documents are voluminous, in order to properly evaluate the materials or articles to be incorporated in the work. Each attachment will be numbered to correspond with the item number shown on the face of this form and the corresponding Submittal Register number contained in the specifications.

4. Requests submitted shall be numbered consecutively, by contract, in the space entitled “Submission No.” This number, in addition to the Contract No., will be used to identify each Material Approval Submittal. Resubmissions will be indicated in the appropriate block and the insertion of previous submission number and date in addition to a new submission number. A single submission should be used for all work of a section of the specifications, but in NO instance should the submission include work for more than one (1) contract. Submittals requiring priority handling will be submitted by separate submittal using the form and so marked across the face of the form.

5. This Material Approval Submittal is not valid unless the Construction Manager signs it. This approval is required as called for under the terms of this contract.

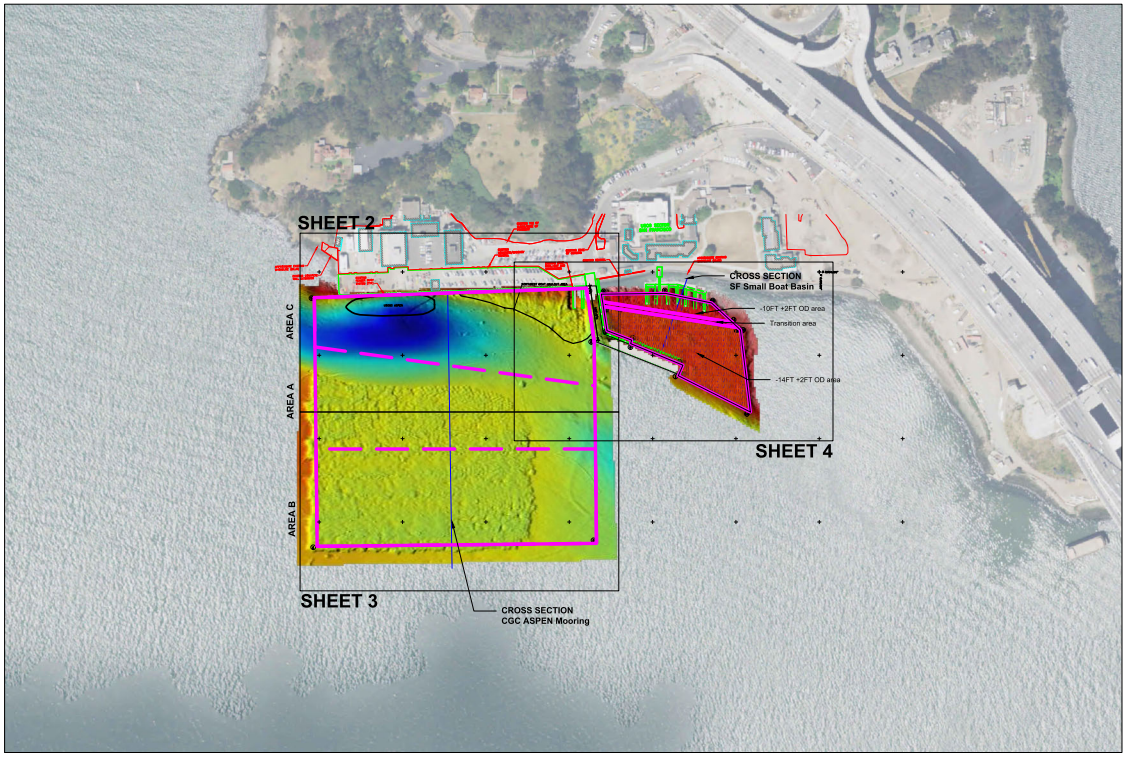
U.S. COAST GUARD CUTTER ASPEN MOORING AND APPROACH & SMALL BOAT BASIN
YERBA BUENA ISLAND, SAN FRANCISCO, CA

POST-DREDGE SURVEY

DREDGE BOUNDARY NAD 1983 COORDINATES (CGC ASPEN Mooring)		
PT.	EAST	NORTH
1	6,024,048.81'	2,122,801.56'
2	6,024,207.27'	2,122,824.94'
3	6,024,814.20'	2,122,831.83'
4	6,024,823.22'	2,121,993.97'
5	6,024,077.07'	2,121,985.49'

DREDGE BOUNDARY NAD 1983 COORDINATES (SF Small Boat Basin)		
PT.	EAST	NORTH
1	6,024,311.20'	2,123,077.07'
2	6,024,279.74'	2,123,090.94'
3	6,024,214.94'	2,122,934.22'
4	6,024,204.63'	2,122,937.07'
5	6,024,176.08'	2,122,863.25'
6	6,024,103.54'	2,122,852.15'
7	6,024,089.57'	2,122,850.00'
8	6,024,066.61'	2,122,846.49'
9	6,024,064.35'	2,123,039.04'
10	6,024,151.55'	2,123,457.26'
11	6,024,184.97'	2,123,451.97'
12	6,024,197.45'	2,123,449.99'
13	6,024,472.09'	2,123,406.47'
14	6,024,066.44'	2,122,794.21'
15	6,024,074.50'	2,122,608.25'

Overview



not to scale

GENERAL NOTES:

1. HORIZONTAL DATUM/PROJECTION: NAD83/SPCS CA ZONE 3 - US SURVEY FEET
2. SURVEY DATA COLLECTED BY ETRAC, INC. ON NOVEMBER 4 & 7, 2019
3. VERTICAL DATUM: MLLW (FEET)
4. VERTICAL CONTROL: TIDAL BENCMARK "RECEIVE RESET 1970", ELEV. 12.160 MLLW
5. HORIZONTAL CONTROL: ETRAC ACTUAL REFERENCE STATION "RICHMOND"
6. POST DREDGE BATHYMETRIC INFORMATION IS ONLY VALID FOR THE TIME IN WHICH THE SURVEY WAS CONDUCTED.
7. POSITION AND MOTION DATA WERE COLLECTED USING AN APPLANIX POSMV WAVEMASTER V5.
8. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2020 MULTIBEAM SONAR

SHEET INDEX:

SHEET 1 - PROJECT INFORMATION
SHEET 2 - POST-DREDGE SOUNDINGS
SHEET 3 - POST-DREDGE SOUNDINGS
SHEET 4 - POST-DREDGE SOUNDINGS
SHEET 5 - POST-DREDGE CONTOURS
SHEET 6 - POST-DREDGE CROSS SECTIONS

Material Removed Volume Table				
Dredge Area	Volume to Channel Grade [Cu. Yd.]	SLOPE [Cu. Yd.]	Channel OD PAID +1 [Cu. Yd.]	Channel OD PAID +2 [Cu. Yd.]
CGC Aspen Mooring - Area A	20,834	494	3,807	1,143
CGC Aspen Mooring - Area B	21,353	601	6,771	4,493
CGC Aspen Mooring - Area C	5,880	1	531	133
SF Small Boat Basin -10FT	1,239	160	373	103
SF Small Boat Basin Transition	377	4	82	12
SF Small Boat Basin -14FT	8,589	287	1,573	191
TOTAL	58,272	1,547	13,137	6,075

BARBOZA.ANA.GILDA.1515878943

Digitally signed by BARBOZA.ANA.GILDA.1515878943
Date: 2019.12.23 16:31:51 -08'00'

(Permitee Signature) (Date)

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dutragroup.com

eTrac Inc.
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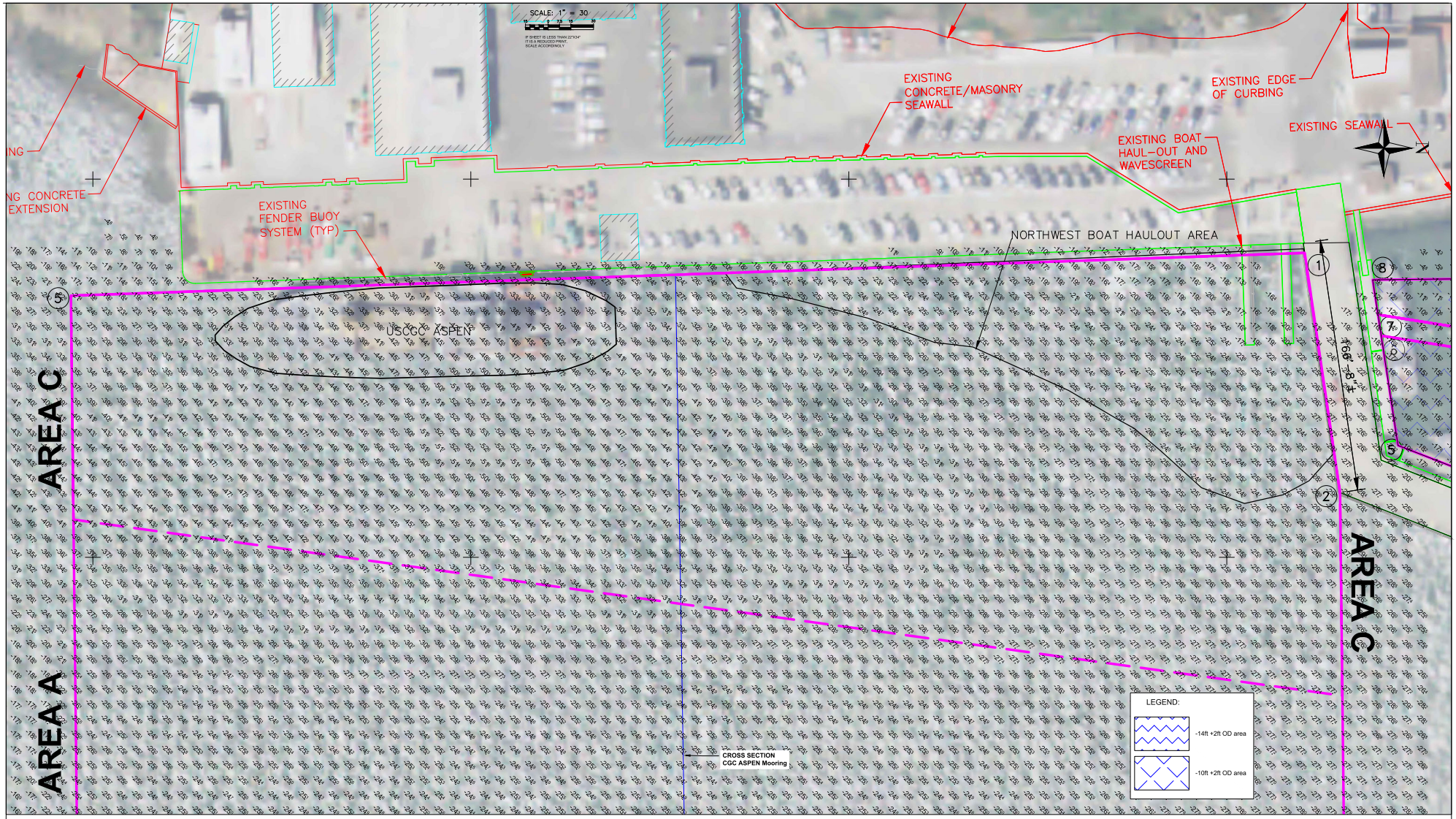
SAN RAFAEL, CA 94901
415.462.0421
eTracInc.com

SURVEY DATE: NOVEMBER 4 & 7, 2019
PLOT DATE: NOVEMBER 13, 2019
DESIGNED BY: PM
CHECKED BY: EM
CONTRACT NO: 2010-00371S EPISODE NO:2
CONTRACT NO: 2018-00259S EPISODE NO:1
FILE NAME: YRI Aspen 2019 v4_jk.dwg

YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND
APPROACH & SMALL BOAT BASIN
PROJECT INFORMATION

Reference Number:
S1



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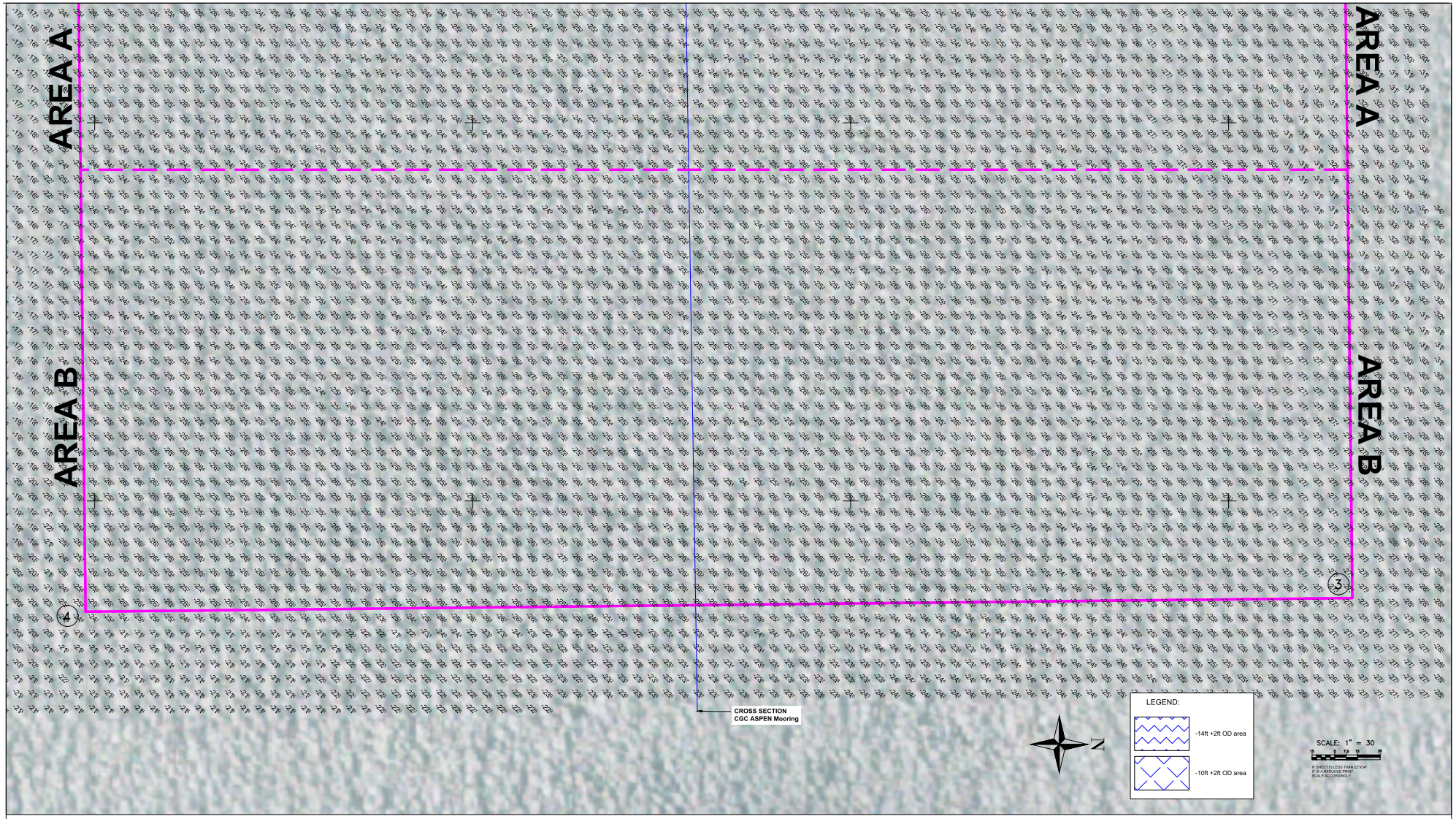
YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND
APPROACH & SMALL BOAT BASIN
SOUNDINGS

Reference Number:
S2



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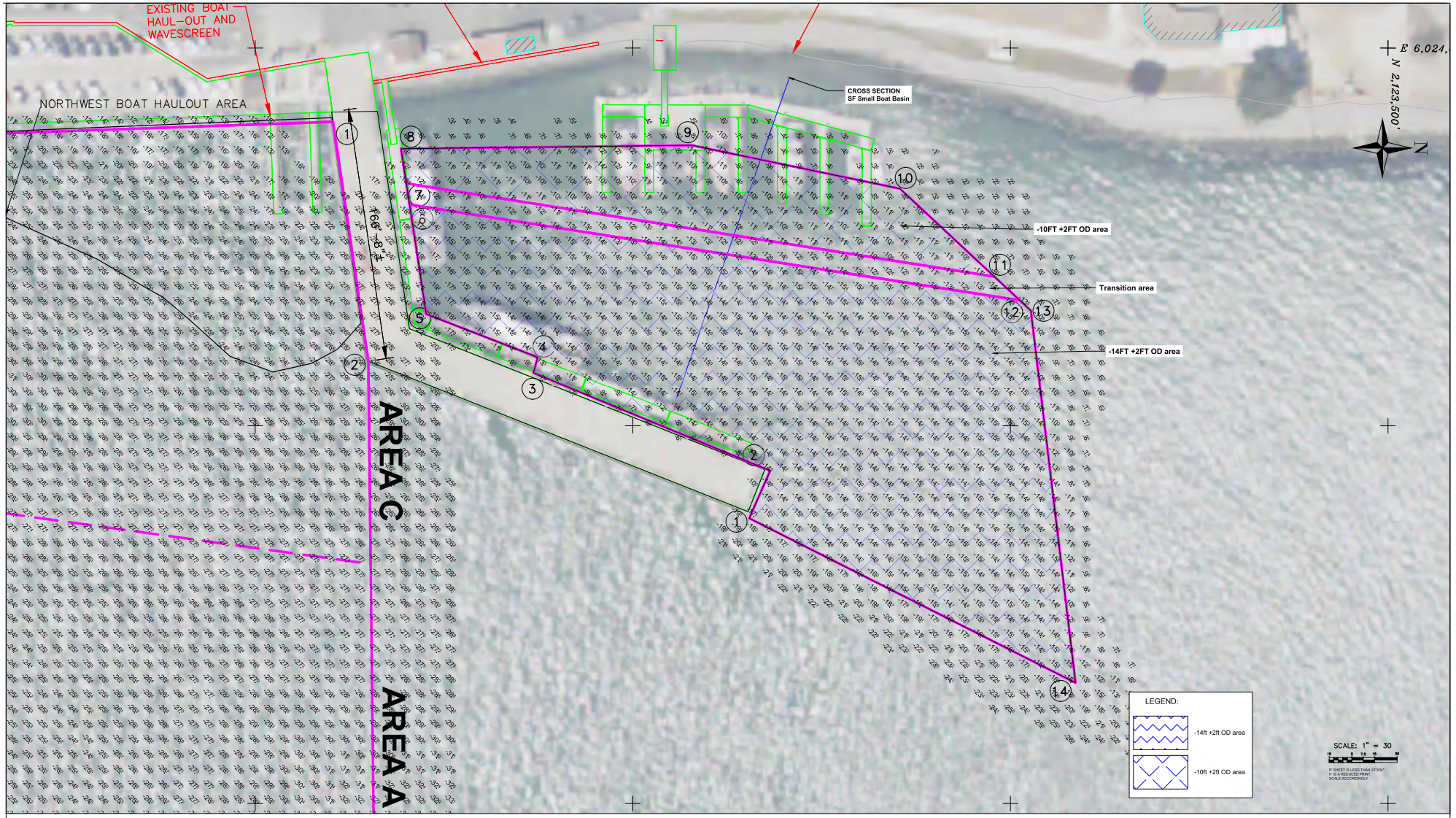
CONTRACT NO: 2018-00259S	EPISODE NO:1
FILE NAME: YRI Aspen 2019 v4_jk.dwg	

YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND APPROACH & SMALL BOAT BASIN
SOUNDINGS

Reference Number:

S3



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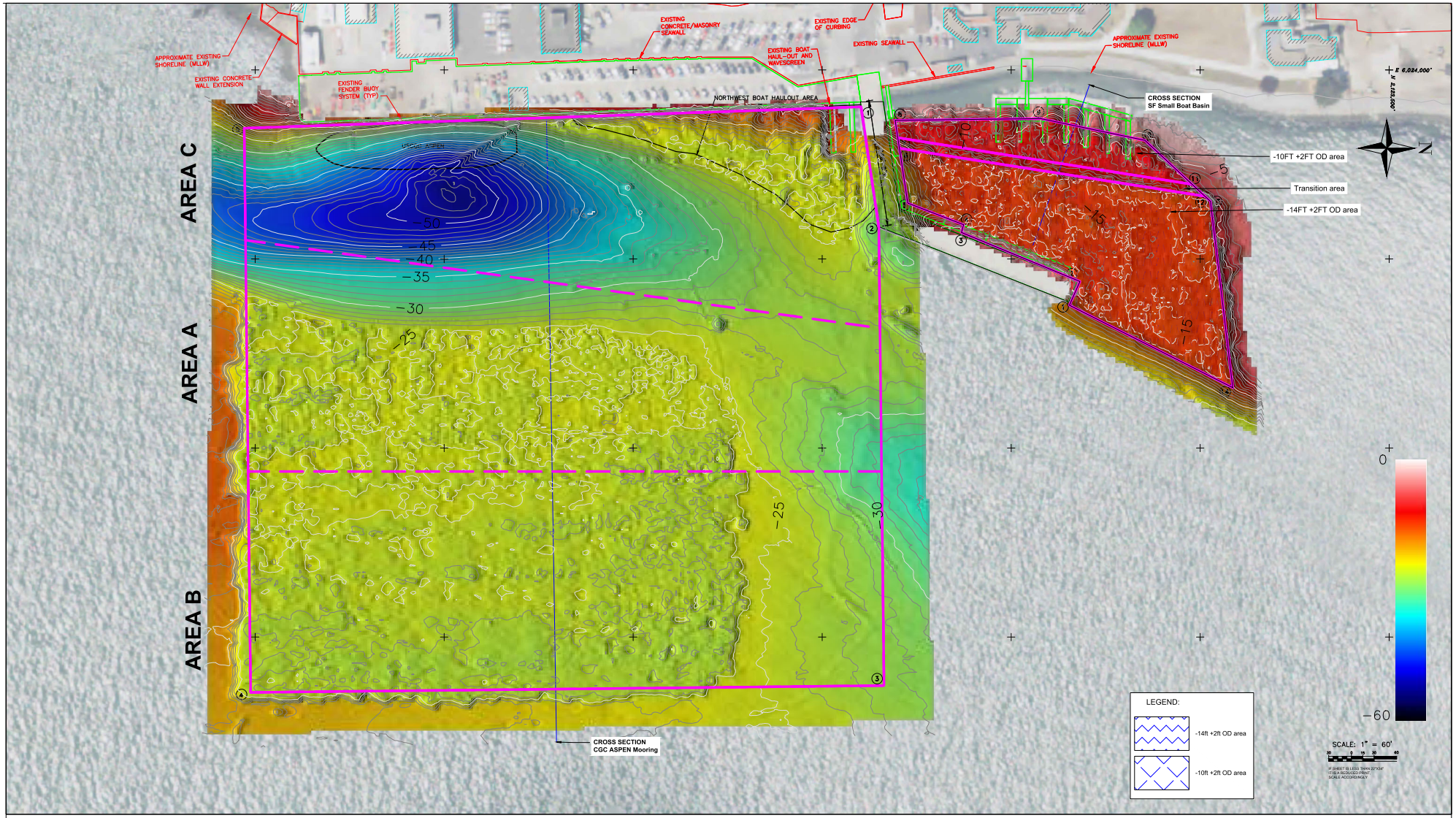
SURVEY DATE: NOVEMBER 4 & 7, 2019	PLOT DATE: NOVEMBER 13, 2019
DESIGNED BY: PM	CHECKED BY: EM
CONTRACT NO: 2010-00371S	EPISODE NO:2
CONTRACT NO: 2018-00259S	EPISODE NO:1
FILE NAME: YRI Aspen 2019 v4_jk.dwg	

YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND APPROACH & SMALL BOAT BASIN
SOUNDINGS

Reference Number:

S4



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SURVEY DATE: NOVEMBER 4 & 7, 2019	PLOT DATE: NOVEMBER 13, 2019
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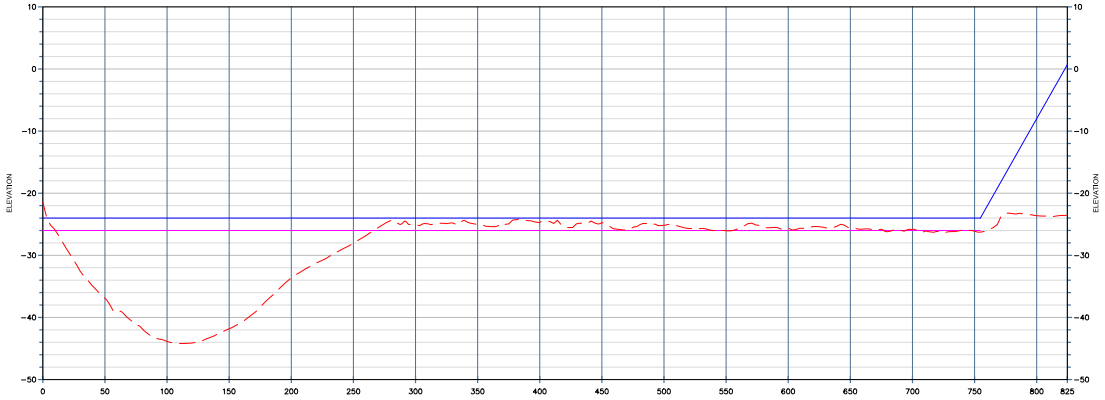
CONTRACT NO: 2018-00259S	EPISODE NO:1
FILE NAME: YRI Aspen 2019 v4_jk.dwg	

YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND APPROACH & SMALL BOAT BASIN
COUNTURS

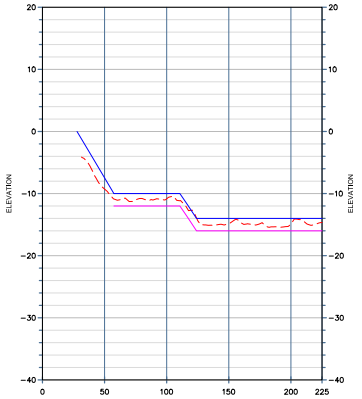
Reference Number:

S5

CGC ASPEN Morring



SF Small Boat Basin



LEGEND:

- Surveyed
- Channel grade
- Channel OD +2'

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FILE NAME: YRI Aspen 2019 v4_jk.dwg	

YERBA BUENA ISLAND
U.S. COAST GUARD
CUTTER ASPEN MOORING AND
APPROACH & SMALL BOAT BASIN
CROSS SECTIONS

Reference Number:

S6

Robert Short - NOAA Federal <robert.short@noaa.gov>

Fwd: Touching Base

6 messages

Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov> Mon, Jul 6, 2020 at 6:58 AM
To: _NOS OCS HSD ESD Team <esd.team@noaa.gov>

ESD Team,

Below is an email with attachment for a post dredge survey of the USCG base at Yerba Buena Island in San Francisco Bay. Please let me know if you need any additional information in order for Coast Survey to update the chart to support USCG operation.

Thanks,

Jeff

****

Jeffrey Ferguson
NOAA, Office of Coast Survey
California Navigation Manager
cell: 301-351-7798
office: 805-893-7107

---------- Forwarded message ---------
From: **David Neff** <david@etracinc.com>
Date: Fri, Jul 3, 2020 at 9:20 AM
Subject: Re: Touching Base
To: Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov>
Cc: Erik <erik@etracinc.com>

USCG_YBI_for_NOAA.zip

Hello Jeff,

I have replied to the bullets inline. Please see below.

- Permission to use the data to update NOAA navigation products.

Given the owner of these data is USCG, and USCG has given permission for eTrac to communicate data to NOAA, yes permission is granted to use the data to update NOAA navigation products.

- Permission to make the data publicly available on NCEI. If you decline, we will mark the survey sensitive and handle accordingly.

Given the owner of these data is USCG, and USCG has given permission for eTrac to communicate data to NOAA, yes permission is granted to make the data publicly available on NCEI.

- Horizontal and vertical uncertainty information (or grid layers), if available (which is important for assessing CATZOC).

A BAG file has been attached to this email which will carry the associated uncertainty layers necessary for determining CATZOC. Be advised this BAG file is NAD83 Projected to California State Plane ZONE 3. The units are US FEET. The vertical datum is MLLW (also US FEET).

- The final survey PDF shows the bathymetry but is not adequate for assessing CATZOC or for creating products to update the chart. We need either the processed survey lines (any format), or a point cloud version of the processed data (e.g., high density XYZ), or a gridded version of the processed data (e.g., geotiff). In order to

meet CATZOC A1 or A2, the provided data must be sufficient to demonstrate complete coverage was achieved and significant features were detected. Processed survey lines or point cloud data are sufficient to make this determination because we can confirm feature detection was achieved. If only a grid is provided, we cannot confirm that feature detection was achieved and the survey would be deemed CATZOC B or lower depending on the uncertainty.

A fully encapsulated QPS Qimera Project has been zipped and attached to this email. Again, be advised this BAG file is NAD83 Projected to California State Plane ZONE 3. The units are US FEET. The vertical datum is MLLW (also US FEET).

Please let me know if there are any further questions pertaining to this survey. I am happy to discuss directly with the PS at the branch that this will be headed to if there are specific questions on file formats, etc.

Have a great holiday.

Dave

On Tue, Jun 23, 2020 at 1:28 PM Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov> wrote:

> Excellent. Attached is the PDF we received from USCG, to make sure we're talking about the same survey.
>
> The questions and additional information we need, include:
>
> - Permission to use the data to update NOAA navigation products.
> - Permission to make the data publicly available on NCEI. If you decline, we will mark the survey sensitive and handle accordingly.
> - Horizontal and vertical uncertainty information (or grid layers), if available (which is important for assessing CATZOC).
> - The final survey PDF shows the bathymetry but is not adequate for assessing CATZOC or for creating products to update the chart. We need either the processed survey lines (any format), or a point cloud version of the processed data (e.g., high density XYZ), or a gridded version of the processed data (e.g., geotiff). In order to meet CATZOC A1 or A2, the provided data must be sufficient to demonstrate complete coverage was achieved and significant features were detected. Processed survey lines or point cloud data are sufficient to make this determination because we can confirm feature detection was achieved. If only a grid is provided, we cannot confirm that feature detection was achieved and the survey would be deemed CATZOC B or lower depending on the uncertainty.
>
> The permissions can be via a simple email reply saying, yes you have permission to use this data. As you know, typically all our survey data gets posted to NCEI for public distribution, if you don't want that to happen, that's fine, we can still update the charts, but not make the higher density data publicly available.
>
> I'm not overly concerned with the CATZOC analysis. I don't think USCG cares. However, if you think it would be a feather in eTrac's cap to have a high CATZOC, then those extra data sets (uncertainty layers, dense point cloud vs gridded geotiff, etc.) would be needed.
>
> Let me know if you have any questions.
>
> The USCG and NOAA appreciate your willingness to assist us in using your survey data to update the chart.
>
> Thanks,
> Jeff
>
> **********
> Jeffrey Ferguson
> NOAA, Office of Coast Survey
> California Navigation Manager
> cell: 301-351-7798
> office: 805-893-7107

On Tue, Jun 23, 2020 at 12:06 PM David Neff <david@etracinc.com> wrote:

> Hi Jeff,
>
> We are good here, busy busy. Hope you are doing well also. It's good to hear from you.

I can facilitate the conversation. I wasn't involved in the project but can help facilitate answers to any questions you may have. fire away.

Dave

On Tue, Jun 23, 2020 at 11:10 AM Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov> wrote:

Dave,

Hope all is well in your world.

USCG in San Francisco contacted me about a post dredge survey conducted at their pier on Yerba Buena Island at the end of 2019. They want to make sure our charts get updated with the new survey depths. They provided us a PDF of the final survey plot and turns out eTrac ran the survey. The USCG has given NOAA permission to talk directly with eTrac to get any additional information we may need to update the chart.

Are you the right POC for our questions or do you want to pass me off to the project lead (if it wasn't you)?

Jeff

****
Jeffrey Ferguson
NOAA, Office of Coast Survey
California Navigation Manager
cell: 301-351-7798
office: 805-893-7107

On Wed, Jan 15, 2020 at 10:42 AM David Neff <david@etracinc.com> wrote:

No worries Jeff, busy times. Thanks for the rundown on the EXPRESS project. I knew it was a collaborative effort and figured the contracting opportunities would not have an organized route, but thought I would check as its something in our backyard and our already existing NOAA charting program. Hope all is well down there. Our business in incrementally growing each year in southern CA. We have a few boats that make the rounds between Santa Barbara and San Diego regularly, just to keep you in the loop on our assets.

Cheers,

Dave

On Wed, Jan 15, 2020 at 10:33 AM Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov> wrote:

David,

Apologies for the glacially slow response.

Congratulations on the new contract. Positive reflection of the work you did on the last contract.

The EXPRESS project is a bit of a cobbling together of different requirements. It actually involves USGS, BOEM and NOAA. USGS looking for earthquake faults and other USGS things, BOEM studying where offshore wind energy may be situated and NOAA for general benthic habitat and charting purposes. It's a bit of "cover a chunk of ground" between projects when/if we can and not a huge independently funded project at this point. Which makes a contracting option less likely as the contracting appropriations that go to Coast Survey is specifically allocated for charting purposes.

Cheers,

Jeff

****
Jeffrey Ferguson
NOAA, Office of Coast Survey
California Navigation Manager
cell: 301-351-7798
office: 805-893-7107

On Tue, Dec 10, 2019 at 3:08 PM David Neff <david@etracinc.com> wrote:

> > > Hi Jeffrey,
> > >
> > > Long time no talk. I hope all is well in your world. I wanted to reach out and touch base. eTrac has officially been awarded another 5 year contract with OCS and we're looking forward to continuing the relationship and the charting program we have developed over the past 5 years.
> > >
> > > I was noticing on the NOAA survey tracker some large areas off the CA coast slated for survey under the "EXPRESS Ocean Mapping Project". It seems like a public partnership with USGS and NOAA? I was wondering if you were involved with that or had information on what the program is and if there is any opportunity for private industry.
> > >
> > > Again, hope all is well and would be great to catch up.
> > >
> > > --
> > > **David Neff, C.H.**
> > > Mobile: (415) 517-0020
> > > www.etracinc.com
>
> --
> **David Neff, C.H.**
> Mobile: (415) 517-0020
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USCG_Yerba_Buena_1m.zip
639K

James J. Miller <james.j.miller@noaa.gov> Mon, Jul 6, 2020 at 7:19 AM
To: Jeffrey Ferguson - NOAA Federal <jeffrey.ferguson@noaa.gov>
Cc: _NOS OCS HSD ESD Team <esd.team@noaa.gov>, Adam Argento - NOAA Federal <adam.argento@noaa.gov>

Good morning Jeff,

Thanks, we appreciate your help getting the requested information. This answers all our questions. We will strive to review the survey in a timely manner and keep you updated on its progress.

Respectfully,

James Miller
External Source Data Team Lead
NOAA Office of Coast Survey
Operations Branch
Telework: 941-504-9817
~~Office: 757-364-7465~~

[Quoted text hidden]

James J. Miller <james.j.miller@noaa.gov> Mon, Jul 6, 2020 at 7:21 AM
To: Robert Short - NOAA Federal <robert.short@noaa.gov>
Cc: Adam Argento - NOAA Federal <adam.argento@noaa.gov>

Good morning Bobby,

When you return from leave, please work with Stephen to download and scan the zipped data from eTrac. Let's catch up this week to discuss where this survey fits with your existing assignments.

Thanks,

James Miller
External Source Data Team Lead
NOAA Office of Coast Survey
Operations Branch
Telework: 941-504-9817
~~Office: 757-364-7465~~

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USCG_Yerba_Buena_1m.zip
639K

Robert Short - NOAA Federal <robert.short@noaa.gov> Mon, Jul 6, 2020 at 7:39 AM
To: Stephen Gallaher - NOAA Affiliate <stephen.gallaher@noaa.gov>
Cc: Adam Argento - NOAA Federal <adam.argento@noaa.gov>, Toshi Wozumi - NOAA Federal <toshi.wozumi@noaa.gov>, James Miller - NOAA Federal <james.j.miller@noaa.gov>

Good Morning Stephen,

Can we download, virus scan and add this dataset to: Q:\Unregistered ESD

Thanks and hope you had a great long weekend,
Bobby
---------- Forwarded message ---------
From: **Jeffrey Ferguson - NOAA Federal** <jeffrey.ferguson@noaa.gov>
Date: Mon, Jul 6, 2020 at 6:58 AM
Subject: Fwd: Touching Base
To: _NOS OCS HSD ESD Team <esd.team@noaa.gov>

[Quoted text hidden]

--
Robert D. Short
Physical Scientist
NOAA, Office of Coast Survey
Pacific Hydrographic Branch
7600 Sand Point Way N.E.
Seattle, WA 98115
work: 206-526-6730
cell: 707-834-4916

USCG_Yerba_Buena_1m.zip
639K

Stephen Gallaher - NOAA Affiliate <stephen.gallaher@noaa.gov> Mon, Jul 6, 2020 at 9:00 AM
To: Robert Short - NOAA Federal <robert.short@noaa.gov>

Hey Bobby,

I'll download them when I get to the office this am (leaving in a bit)

I'd start it now, but (get this....) something wonky is happening to *my* user account, and I had to recover it - so it'll take a few minutes for AD to catch up.
The Download is 1.8 GB so it won't take long. Neither with the scan.
I'll ping you once it's completed.
Hope you had a good weekend as well.

Stephen Gallaher CCNA | SEC+ | MCSE

ERT Corp - Windows Systems Administrator

Office of Coast Survey – Pacific Hydrographic Branch

stephen.gallaher@noaa.gov

O: 206.526.6883 | M: 425.273.0054

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Robert Short - NOAA Federal <robert.short@noaa.gov> Mon, Jul 6, 2020 at 9:18 AM
To: Stephen Gallaher - NOAA Affiliate <stephen.gallaher@noaa.gov>

Awesome! Thanks, Steve.
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APPROVAL PAGE

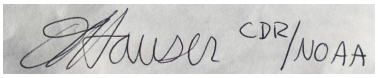
W00531

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 NCEI for archive

- Descriptive Report
- Collection of Bathymetric Attributed Grids (BAGs)
- Processed survey data and records
- GeoPDF of survey product

The survey evaluation and verification has been conducted according current OCS Specifications, and the survey has been approved for dissemination and usage of updating NOAA's suite of nautical charts.



Digitally signed by HAUSER.OLIVIA.A.1275636009
Date: 2020.11.12 08:57:51 -08'00'

Approved:_____

Commander Olivia Hauser, NOAA
Chief, Pacific Hydrographic Branch