

# What Lies Beneath: The Ongoing Pipeline Safety Challenge Facing Dredging and Marine Construction Projects

#### Presenters:

Ed Landgraf

Chairman and Founder, Coastal and Marine Operators (CAMO)

#### **Tim Osborn**

Manager, National Oceanic & Atmospheric Administration (NOAA)

### Jason Campbell

Vice President of EHS, Great Lakes Dredge & Dock Corporation

### **Micah Morris**

Operations Manager, Callan Marine, Ltd.

Moderator:

#### **Margaret Davis**

VP, Hile Group Inc.













# **WEDA Webinar Guidelines**

### Chat

Use the chat to introduce yourself to the other attendees.

#### Questions

Use the Q&A feature to ask the presenter questions. We will address all Questions after all presentations.

### **Technical Issues**

If you experience any technical issues, the easiest solution is to log out of Zoom and then log back in. If that doesn't work, contact me directly using the chat or email Info@WesternDredging.org.

### Presentations

The presentations and recording from today's webinar will be available on the WEDA website later today or tomorrow.

## Professional Development Hours (1 PDH)

After this webinar, you will receive a thank-you email. Please reply to that email to request a certificate.

### WEDA Membership

If you are not currently a member of WEDA, please consider joining. If you are uncertain as to the status of your membership, contact us at **Info@WesternDredging.org.** 



**CAMO** Members and Partners:



# Marine Pipeline Fatalities and Incidents <u>DO</u> Happen! Here are the Statistics...



Interactions between Marine Vessels and Pipelines (over 20 yrs.)

Source: NTSB, Coast Guard and PHMSA

Pipeline Strikes Reported

118 25



Personnel Injuries17Environmental Impact - Pipeline Spills<br/>100,000 bblsSpills in Costal/ Marine<br/>Environments can<br/>average over \$10,000<br/>a bbl. just to clean up

# Dec 2020 – update now 5 killed from the Corpus Dredge – Pipeline Accident

By Associated Press Texas Aug. 21, 2020 CORPUS CHRISTI, Texas — A dredging vessel at a Texas port hit a natural gas pipeline, sparking an explosion that sent six people to the hospital and left four others missing, authorities said.

Investigation into Corpus Christi pipeline explosion may take more than a year



April 17, 2018 Dredge/ Pipeline Explosion (Matagorda, Tx)

August 21, 2020 Dredge/ Pipeline Explosion (Corpus, Tx)

What's the difference? **5 – Killed** and ~50 miles



The dredger Jonathon King Boyd on fire near Port O'Connor, Texas, April 17, 2018. Photo courtesy Maritime Throwdown



Coast Guard crews respond to a dredge on fire in the Port of Corpus Christi Ship Channel, Aug. 21, 2020. A Sector/Air Station Corpus

# CAMO Study shows some type of Dredge/ Pipeline damage, near miss or strike - averages 1 per year

# Dredger strikes subsea gas pipeline in Gulf of Mexico, El Paso ... gcaptain.com/dredger-strikes-subsea-pipeline/ -

Apr 1, 2011 - Incident Summary: At 2030 on 30 Mar, while conducting dredging operations

### Dredging ship cracks natural gas pipe in Delaware River

www.dailylocal.com/article/DL/20140807/NEWS/140809829 -

Aug 7, 2014 - The breach occurred at about 9:15 p.m. when a **dredging** vessel contracted by the U.S. Army Corps of Engineers struck an 8-inch **pipeline** near ...

# Coast Guard responds after dredge strikes pipeline in Louisiana ...

coastguardnews.com > Marine Environmental Protection -

Sep 5, 2016 - NEW ORLEANS – The Coast Guard and other agencies are responding to an oil discharge near Bay Long, Louisiana, Monday. Watchstanders ...

[PDF] Natural Gas Pipeline Rupture and Fire During Dredging of Tiger Pas... pstrust.org/docs/ntsb\_doc19.pdf -

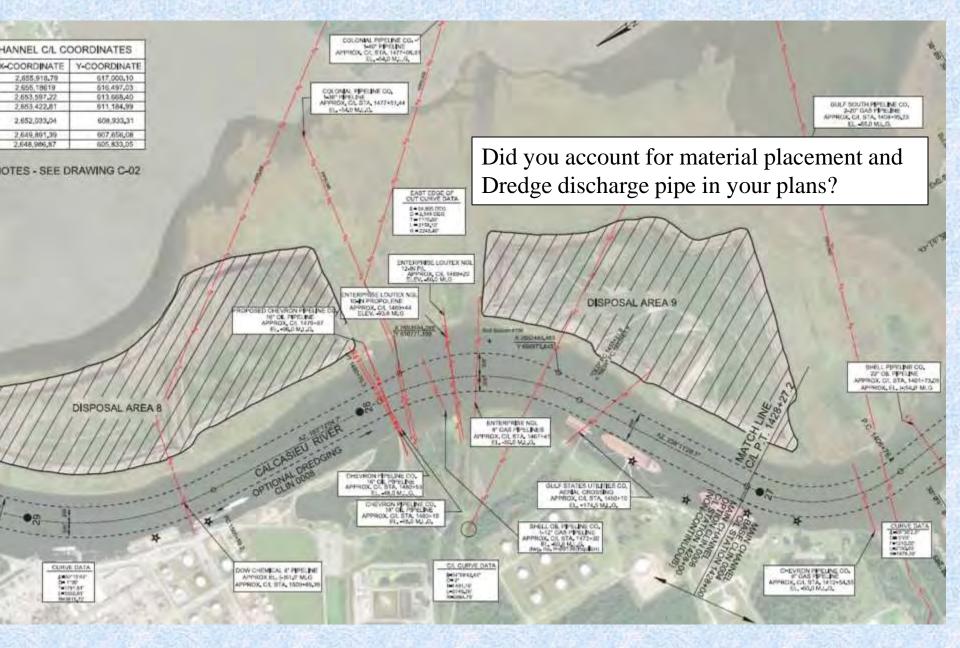
Oct 23, 1996 - The spud struck and ruptured a 12-inch-diameter submerged ... gas released from the pipeline enveloped the stern of the dredge and an ...

#### Pipeline Fire - CNN iReport ireport.cnn.com/docs/DOC-413532 Dredge hit a natural gas pipeline off apflood | Posted February 26, 2010 | I

# Dredger Hits Natural Gas Pipeline and Catches Fire https://www.maritime-executive.com/article/dredger-hits-natural...

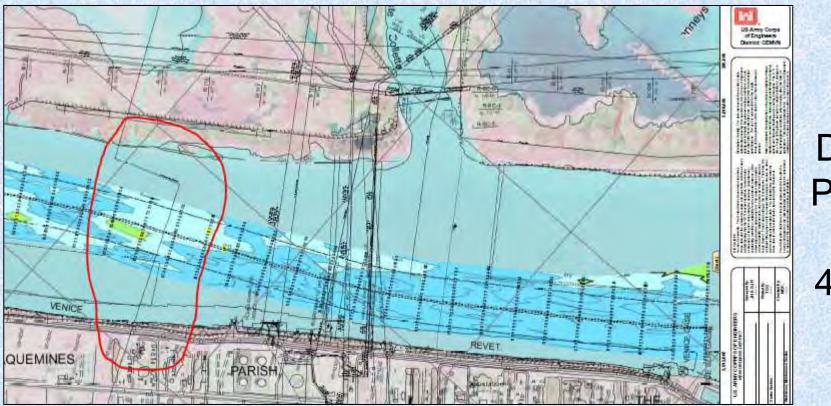
By MarEx 2018-04-18 15:34:00 [Brief] On Tuesday evening, the cutter suction dredger Jonathan King Boyd hit a gas **pipeline** during **dredging** operations in **Matagorda Bay**, Texas, sparking a **fire**.

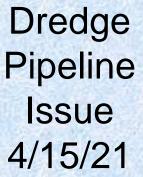
# **Dredger Reported Activity to CAMO - for Help**



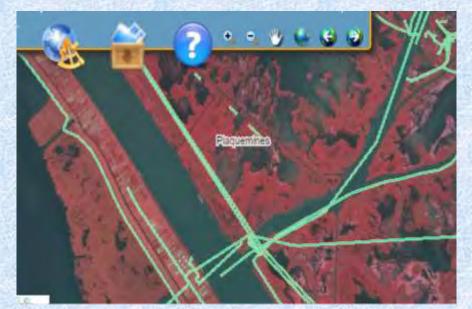
# Pipeline Data Needs to be Checked – Pre Project









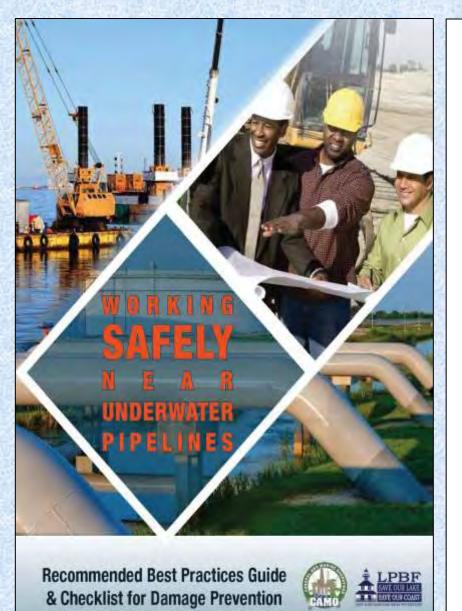


# Issue: Pipeline corridors in Safe Anchorages?????



Emergency Management System





**A CAMO and LPBF Partnership** 

~ PHOTOGRAPH THIS PAGE ~ Register for FREE one-hour training: https://camo.dpa.train ing/index

# Watch inbox for password from DPA

# **EMAIL 10 PEOPLE ABOUT IT**

Or go to <u>www.camogroup.org</u>

Questions – ed@camogroup.org

# Get Free Safety Resources at www.camogroup.org

#### camogroup.org

New Online Training: Working Safely Near Underwater Pipelines Click here to Register

#### CAMO

Coastal and Marine Operators Pipeline Industry Initiative

Purpose, Actions, and Goals

Members and Board Downloads Q



## Emergency



Ferrar anticoded Stat Practices during (in) Abi Safety

# **Best Practices** and Tip Cards

**Click here to Download PDF** 



The training is for: personnel in construction, dredging, coastal restoration, pipeline companies, ports, mariners, agencies and emergency responders.

It's one hour of condensed learning, divided into seven (7) sections.

# **2021 Dredge and Pipeline CAMO Sub Committee**

**Current Objectives:** 

1.Obtain a Corps, Agency, Regulator, CPRA, State/ Federal Sponsor etc. to assign a focal point at the right decision making level to participate on this committee.

2.Pipeline data and information provided to dredgers <u>(from Agency, Client or</u> <u>Sponsor</u>) is often outdated and/ or inaccurate – resulting in unfair responsibilities to dredgers.

3. Training and Guidelines - "All" dredgers and pipeline companies implement training on dredge and pipeline safety (for effected personnel).

4.Project "look back" exercises need to be conducted and learning's implemented in future projects and shared.

5.Identify any new technologies or better ways to ID underwater pipelines, abandon and flow lines.

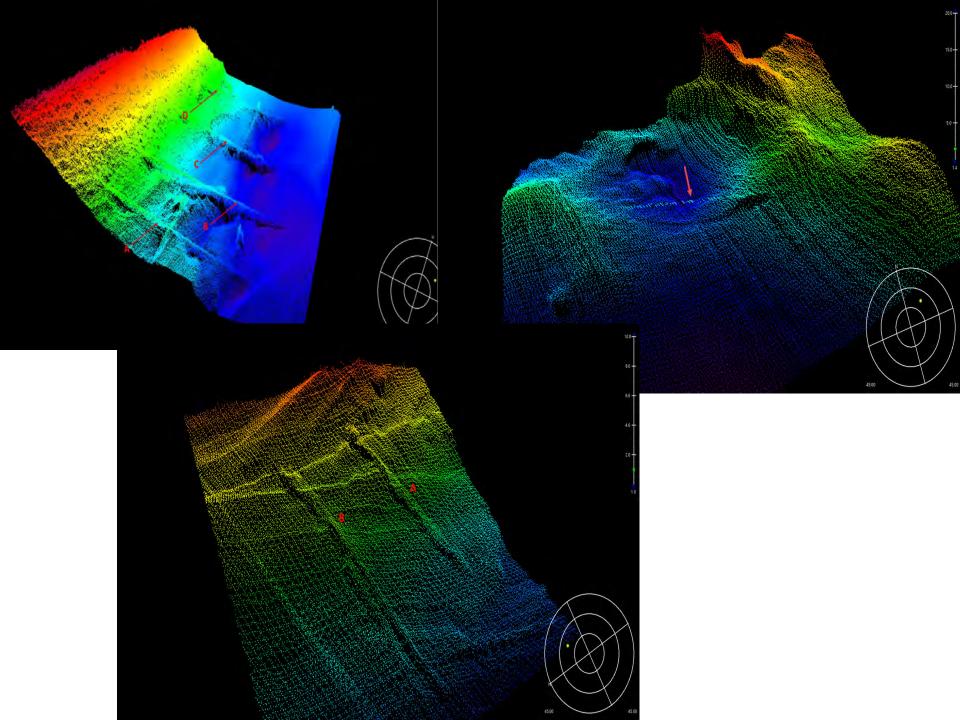
6. Dredge operations field tour for pipeline companies and stakeholders

**CAMO** Members and Partners:



# Pipelines and Coordination in Safety in Projects and Navigation

Tim Osborn, NOAA Coast Survey <u>tim.osborn@noaa.gov</u> 337-254-5933



# NOAA Coast Survey Submerged Pipeline Reporting

U.S. Anny Corps of Engineers District:	Waterway and State:
USACE Permit Public Notice Number	Latitude Longitude: incomple 29/12/10, 49/12/10,>12/10/10, 49/11/9>2/19/00, 49/11
Please complete the following checklists	to the best of your ability (refer to "What to Submit" and "Supporting Notes" on page 2):
Requested Action (with reference t	o applicable questions at right):
Add uncharted pipeline [1, 2, 3]	[1] Date of installation removal data domaint
Update currently charted pipeline [1	.2.3.4.3] [2] What product or material does it carry?
Remove charted pipeline [1]	[3] Permanent operating status
	[1, 2, 3, 4, 5] [4] If abandoned, does it contain volatile material?
	[5] What is being updated?
Primary point of contact:	celad, No Activity
Name & Title: Company Name: Entail Address: Owner Name:	Plane Number
Name & Title: Company Name: Ensuit Address: Owser Name:	Phone Number

#### What To Submit:

Please use the "Attach" bottom at bottom to include all relevant supplementary information, including:

To add an uncharted pipeline:	To update a charted pipeline:	To remove a charted pipeline:
As-Builts *	ENC Graphic or Latitude Longitude §	ENC Graphic or Latitude Longitude
USACE Permit 2	USACE Parmit #	USACE Permit(s) :
	1.200.000.00	Removal statement

#### \* As-Builts:

Digital as-bailt surveys (e.g., shapefiles, geodatabase files, dgn files, dwg file, GeoPDFs, Excel files, eav files, xyz data) are preferred.

Un-georeferenced PDF files and hard copy surveys are acceptable if they are overhaid with a coordinate grid or tack marks.

For all as-builts, ensure that the coordinate system (projection, horizontal datam, and units) is stated in the as-built and/or is indicated in the "As-Built Grographic Coordinate System" field below.

As-Built Geographic Coordinate System:

| USACE Permit: Provide a copy of the United States Army Corps of Engineers permit that authorized the pipeline activity.

#### ENC Graphic:

(a) graphic of the largest scale NOAA ENCII with the feature circled. We suggest using the NOAA Online ENC Viewer

found at: https://nauticalcharia.noaa.gov/encouline/encouline.html (2009) in to see the most detailed data available/

(b) Latitude Longitude marking the location of the charted pipeline; see the field located near the top of the form

#### Removal Statement:

If you are ubmitting this form requiring that a pipeline be considered for renoval from applicable charts, please note that NOAA will require an official statement on company leticnhead stating that pipeline renoval has been completed as permitted. This statement should be included as an attachment prior to ubmission of this form using the "Attache Votico below,

Upon completion, please use the "Submit" button below to email this form directly to NOAA's National Ocean Service, Marine Chart Division. If email is not an option, hard copy printed forms and any supplemental information may be mailed to:

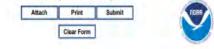
> Department of Commerce, NOAA Nautical Data Branch, N/CS26 1315 East-Weil Highway Silver Spring, MD 20910-3282

#### Supporting Notes:

When a prefine that falls within a charted pipeline area (or pipeline and cable area) is removed, the Natarad Vecan Service (NOS) cannot delote the charted area without being certain that NO additioned pipelines or cables area located in that area. To remove a charted area, NOS carlographen will need to do existince research to smore faith NOS dat not receive information about other utilizes that fell within these limits. To that end, any information regarding the status of additional utilizes in such an area would be useful.

All pipeline data that NOS receives is subject to charing policy. There is no guarantee that NOS well add, revise or delete an individual symbol or area for one or more morigational products. NOS dual resumits the final audiority for charing any subsarine pipeline that it consides to be policitatify hazardoso to numera navigation regardless of other recommendations.

Thank you for your assistance. If you have any questions regarding this inquiry, please contact the Nantical Data Branch via ernal at occardb@nana.gov. Please he sare to include the USACE permit namber in the subject field.



Callan Marine, LTD. is a Texas-based, family-owned dredging business founded in 2009. Callan Marine performs dredging projects for both private and public clients by providing services to restore berthing depths for ship docks, navigation channels, or otherwise facilitate transportation in our nation's waterways.

Micah Morris is a graduate of Texas A&M University at Galveston with a Bachelor of Science in Maritime Administration. He joined the Callan Marine team in 2016 and has served in various project management roles. Micah is now responsible for the Brown Water Division at Callan Marine.



Micah Morris, Operations Manager Brown Water Division