

Dredging Safety

CDMCS Update

Karl Anderson, USACE HQ

Dredging in the Vicinity of Underwater Utilities
“How Can Industry & the Corps Partner to Make This a Safer Activity”

Michael Gerhardt, DCA
Ben Cottrell, Cottrell Contracting
Bill Hanson, Great Lakes Dredge & Dock
Jim Walker, USACE HQ
Jennifer Moyer, USACE HQ

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Council for Dredging and Marine Construction Safety

2011/2012 Meetings

- Dredgers now report accident trends and program successes at each meeting.
- One meeting per year is integrated with the AGC Safety Managers Meeting.
- Have added Industry Best Practices discussion
- Speakers have included USCG, equipment MFRs, Common Ground Alliance, El Paso Pipeline Group, and others.
- Need to maintain USACE involvement

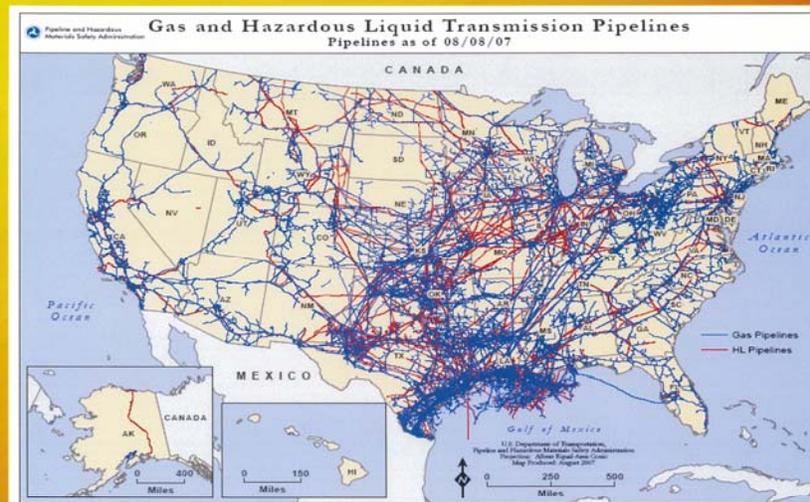
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2011/2012 Actions and Issues

- Briefed USACE Crane/ Derrick concerns and survey actions
- Dredge SSHO wording integrated in UFGS 01 35 26
- Survey Swimming - CDMCS provided industry and USACE input for evaluation by E&C and Ops.
- Utility Location -ongoing issue, provided industry concerns to USACE

Pipeline Distribution Infrastructure



Poorly Marked/Unmarked Underwater Utilities are a Serious Threat
to Human Life and the Environment



Mismarked & Mismanged Underwater Utilities is a
Partnering Opportunity

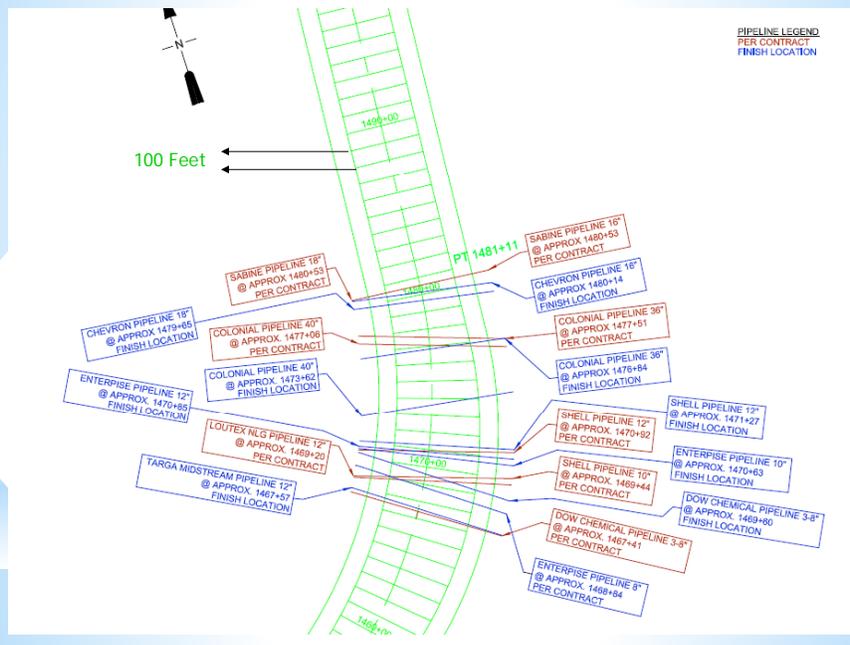
- * Pipeline/cable crossings & ownership data in contracts and permits are often inaccurate → creating hazards for crews, vessels, environment, local communities; increasing project costs
- * Utility company cooperation on safety is inconsistent and unreliable.
- * Contractor cannot hold utility company responsible for economic damages (project delay and labor/material downtime) resulting from faulty markings or a lack thereof (*Excavation Tech. v. Columbia Gas of PA, 2009*) → contractor turns to Corps for assistance...what happens next?
 - * Corps issuing contractor an "incomplete" or "unsatisfactory" for refusing to dredge over an active line w/o all safety precautions in place = not Partnering
 - * Corps suspending a utility's permit because their line was placed too shallow and is a safety hazard & navigation impediment = Partnering

Dredging Contractors Will Not Negotiate on Safety.

Outdated/Incorrect Ownership Data (in permits & contracts)

✓ 10" Oil P/L <i>W/S</i> Proprietary	1480+53	-48.0'	Sulphur, LA 70665 Mr. Henry Chapman (225) 882-6748 <i>Cole Crews</i>
✓ 12" Oil P/L <i>Oil</i> Proprietary	1477+51	-54.0'	Sulphur, LA 70665 (Same as above) <i>Chertron</i>
✓ 12" Gas P/L <i>Gas</i> Proprietary	1477+06	-54.0'	Colonial Pipeline Co. Mr. Huey Faulk 2053 Clifton Ridge Rd. Sulphur, LA 70665 <i>Randy Sullivan</i> 537.802.9091
✓ 12" Gas P/L	1470+92	-60.0'	Colonial Pipeline Co. (Same as above)
✓ 10" Propylene P/L	1469+44	-93.6'	Shell/Equilon Oil P/L Co. PO Box 551 Mont Belvieu, TX 77580 Mr. Bob Higgins (713) 241-7124 <i>Brian Keller</i>
✓ 12" P/L	1469+20	-50.0'	Shell/Equilon PO Box 551 Mont Belvieu, TX 77580 Mr. Bob Higgins (713) 241-7124 <i>Enterprise</i>
✓ 3-8" Gas P/L	1467+41	-50.0'	LOUTEX NLG PO Box 9 Gonzales, LA 70707-0009 Mr. Bob Raburn (225) 675-5387 <i>Enterprise</i>
Aerial Crossing	1450+10	+174.5'	Dow Chemical Co. 5683 Carlyssa Dr. Sulphur, LA 70663 Mr. Marty Landry 318-583-2710
✓ 6" Gas P/L <i>Abandoned</i>	1412+55	-50.0'	Gulf State Utilities Co. P.O. Box 2893 Lake Charles, LA 70602 Mr. Williams Bates 318-436-4351
✓ 2-20" Gas P/L	1408+95	-55.0'	Colonial Pipeline Co. 2159 Clifton Ridge Rd Sulphur, LA 70665 Mr. Henry Chapman (225) 882-6748 <i>Chertron</i> <i>Cole Crews</i>
✓ 22" Oil P/L	1401+73	-54.0'	Gulf South Pipeline 1415 Miller Ave. West Lake, LA 70669 Julie Mayeux 337-988-7305
			Shell Pipeline Co.
			SECTION 35 20 23.00 12 Page 12 ED 10-016

Incorrect Crossings Data: Plans & Specs vs. Reality



Industry Recommendations for USACE

- Ensure all utility crossings are properly identified in the water, in the permit, and in the contract prior to dredging
- Develop an accurate and updated National Underwater Utility Database
 - Owner as-built data verified by comprehensive USACE reconnaissance and/or USACE-approved contractor findings
 - Include "Toe" data, in addition to centerline data
- Create Pipeline Safety Checklist for Project Managers
 - Verify ownership and markings
- Modify all current and future USACE pipeline permits to:
 - Require utility owners to provide accurate as-built data and be held accountable to it.
 - Require a utility representative to be onboard or onsite while dredging is being performed near the utility.
 - Indemnify contractors if unmarked utilities are struck
- Include utility owners in pre-solicitation meetings
- Establish national guidance or contractual language, describing what Industry and USACE will do if utility owners cannot be located or will not mark their lines
- Encourage Industry/District Partnering !!

Safety Comes First!!

(NO EXCEPTIONS)

We can eliminate this risk together,
but we need YOUR help!