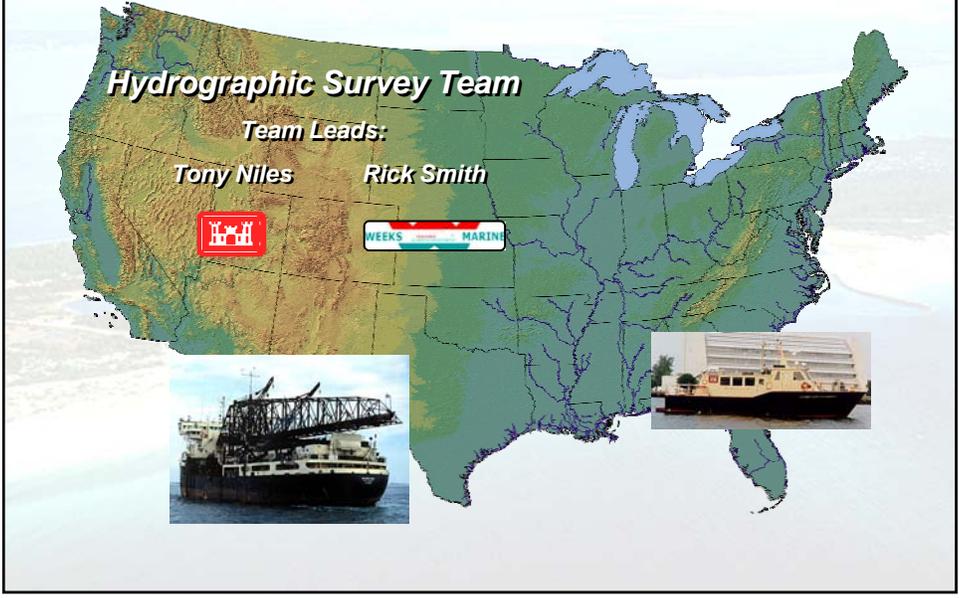


Corps of Engineers – Dredging Contractors of America Partnership



**Meeting at Corps Survey and Mapping Community of Practice
November 1, 2007**

Name	Organization
Bob Mann	USACE - ERDC
Doug Moore	Gahagan & Bryant
Anthony DePasquali	USACE - Philadelphia
Tony Niles	USACE - ERDC
Bill Hanson	Great Lakes Dredging & Dock
Barry Holliday	Dredging Contractors of America
Bill Hussin	Manson Construction
Ray Williams	USACE - Norfolk
Joe Scolari	USACE - Philadelphia
Rick Smith	Weeks Marine
Neil Rodgers	Southern Dredging
Paul Laugheed	Norfolk Dredging
D.J. Briley	B&B Dredging
Tim Ekryn	B&B Dredging
David J. Olsen	USACE - Philadelphia
Austin Gerrard	USACE - Philadelphia
Bill Bergen	USACE - HQ
Washington Bryan	Great Lakes Dredging & Dock
Chris Roberts	Great Lakes Dredging & Dock



Hydro Survey Topics of Discussion;

- 1) ***PDT organization*** - hydro surveyor, or appropriate knowledgeable person, should be involved in dredging project.
- 2) ***Response time*** – Prompt completion of acceptance surveys and availability of results needed
- 3) ***Contract spec clause*** – A template for Corps contracts outlining critical elements and procedures for hydro surveys and payment provisions.
- 4) ***Volume computations*** – Method to be used during project must be identified; standard procedure preferred.
- 5) ***Channel clearance*** – Procedures to be used, particularly with multibeam systems, must be stated in the contract specs.
- 6) ***Accuracy*** – Consistent and authoritative standards needed.
- 7) ***Depth confidence*** – Consistent and authoritative standards needed.
- 8) ***Depth selection*** – Consistent bin selection needed.



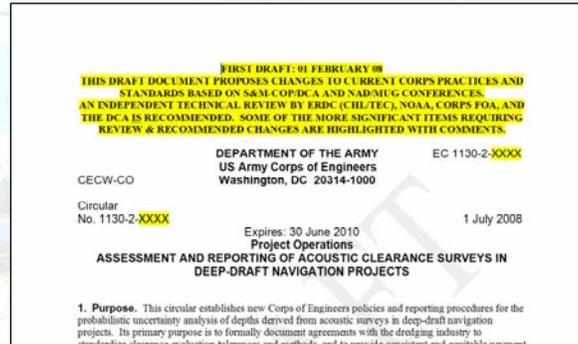
Hydro Survey Topics of Discussion (continued);

- 9) ***Critical requirements*** – Clear identification needed.
- 10) ***Progress payment*** – Availability of data for comparisons in case of dispute.
- 11) ***As-builts; Significant figures*** – Consistent and authoritative mathematical and industry values needed.
- 12) ***Suspended sediment*** – Clear and consistent practices needed.
- 13) ***Multibeam data*** – criteria for application needed.
- 14) ***RTK tide measurements*** – situations where practice is needed should be stated.
- 15) ***Roundoff methods*** – Consistent and authoritative mathematical and industry values needed.
- 16) ***Metadata file reference*** – Standard template for information to be included on survey plots and data files is needed.



Proposed Resolution: Engineer Circular addressing each topic

Author: Bill Bergen (also drafted EM 1110-2-1003)



- Draft document has been disseminated to Corps dredging PMs and hydro surveyors, dredging industry, NOAA, academia, and system vendor.

➤ copy can be obtained from Tony Niles, tony.niles@us.army.mil

*** Comments encouraged! ***



Engineer Circular technical sections;

- 1) Survey Tolerances on Dredging Measurement and Payment Projects
- 2) Standards and Specifications for Acoustic Surveys
- 3) Channel Clearance and Acceptance Procedures
- 4) Policy on the Use of Multibeam Survey Systems on Maintenance Dredging Projects
- 5) Policy on Determining Payment Grades in Suspended Sediments or Unconsolidated Materials
- 6) Reporting Channel Condition and Clearance Grade Tolerances—Significant Figures
- 7) Selection of Controlling Depths for Channel Condition Reports
- 8) Requirements for Carrier-Phase GPS Water Surface Elevation Measurement
- 9) Corps-wide Standard for Dredging Payment Quantity Computations
- 10) Response Times for Dissemination of Survey Data



Next Steps:

- **Analyze operational impact for Corps districts and dredgers,**
- **Analyze new training needed for hydro surveyors, as well as non-survey personnel,**
- **Seminar of Corps and industry personnel to discuss new or modified procedures needed to implement practices in EC.**

