



**NOTES:**

1. DATA SHOWN DERIVED FROM MULTIBEAM HYDROGRAPHIC SURVEYS CONDUCTED BY THE MARINE SERVICES DIVISION OF DAVID EVANS AND ASSOCIATES, INC. IN APRIL, 2013, SOUTH PORTAGE COVE HARBOR, LETNIKOF FOR FURTHER INFORMATION PROJECT METHODOLOGY SEE THE FINAL REPORT "COVE HARBOR AND LUTAK DOCK MULTIBEAM HYDROGRAPHIC SURVEY REPORT, APRIL 2013.
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (CORS86, EPOCH 2002), STATE PLANE COORDINATE SYSTEM (SPCS), ALASKA ZONE 1.
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW) BASED ON NOAA/CO-OPS HISTORIC STATION AT CHILKAT INLET, AK (945-2421), EPOCH 1983-2001.
4. UNITS: U.S. SURVEY FEET.
5. FEATURES AND MATERIAL DELINEATION INTERPRETED FROM FULL RESOLUTION MULTIBEAM BATHYMETRIC DATA AND BACKSCATTER IMAGERY.
6. INTERPRETED RESULTS ARE INTENDED TO CHARACTERIZE THE CONDITION OF THE SEAFLOOR AT THE TIME OF THE SURVEY.
7. AREAS WITH STRONGER ACOUSTIC RETURN OUTLINED HAVE DIFFERENT ACOUSTIC PROPERTIES AND MAY BE COMPRISED OF A MATERIAL WITH A LARGER GRAIN SIZE THAN THAT OF THE SURROUNDING SEAFLOOR.
8. RESULTS PRESENTED ORIGINATE FROM REMOTE SENSING TECHNOLOGIES WHICH MAY NOT DETECT ALL FEATURES OF INTEREST AND ARE SUBJECT TO SPECIFIC INFLUENCES WHICH MAY CAUSE MISINTERPRETATION.
9. GREYSCALE HILLSHADE IS PROVIDED FOR VISUAL INTERPRETATION OF SURFACE ROUGHNESS.

THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECTION OF A NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS/THE HYDROGRAPHIC SOCIETY OF AMERICA, CERTIFIED HYDROGRAPHER.

BENJAMIN L. HOCKER,  
 NSPS/THSOA CERTIFIED HYDROGRAPHER (263)

HYDROGRAPHIC SURVEY  
**SOUTH PORTAGE COVE HARBOR**  
**MULTIBEAM DATA INTERPRETATION**  
 HAINES, ALASKA

**DAVID EVANS AND ASSOCIATES, INC.**  
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REVISIONS: APPD.

DATE: SEPT. 17, 2014  
 DESIGN:  
 DRAWN:  
 CHECKED:  
 REVISION NUMBER:

SCALE: 1"=50'

PROJECT NUMBER:  
 PNDE0000-0004

DRAWING FILE:  
 SFC RUBBLE.dwg

SHEET NO.