

- NOTES**
- PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 6, NAD83 (2011), IN US SURVEY FEET BASED ON NGS PUBLISHED VALUES, HOLDING USCGS STATION "DILLINGHAM 1947" (PID U7691) AS N 1,849,383.08', E 1,551,809.45' AND USCGS AZIMUTH MARK "DILLINGHAM AZ MK 1947" (PID U7690) AS N 1,841,347.21', E 1,553,844.91'.
 - LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 6, NAD83 (2011), IN US SURVEY FEET HOLDING USACE DOMED BC "1277-3 1984" AS N 1,840,427.98', E 1,550,887.60'.
 - VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW+0.0'), BASED ON THE NOAA'S TIDAL BENCH MARK LIST "346 5374 SNAG POINT, NUSHAGAK BAY, DILLINGHAM, ALASKA" PUBLISHED 04/29/2013. THIS TIDAL DATUM IS BASED ON THE 1985-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA'S TIDAL BENCH MARK "5374 D 2007" AS 60.45'.
 - VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 (GEOID 12B) ELEVATIONS HOLDING NOAA BENCHMARK "946 5374 B 2007" (PID BBF17) AS 18.46'.
 - SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
 - BATHYMETRY WAS COLLECTED JUNE 4-2, 2017. SOUNDINGS WERE COLLECTED USING AN ECOSCOPE ECHO SOUNDER OPERATING AT 200 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH A DIGIBAR PRO SOUND VELOCITY PROBE. POSITION AND TIDES WERE PROVIDED IN REAL TIME USING A TRIMBLE R8 RTK GPS RECEIVER OPERATING ON KINEMATIC CORRECTIONS BROADCAST FROM A TRIMBLE R8 RTK BASE RECEIVER SET AT CONTROL STATION "1227-3". DATA WAS COLLECTED AND PROCESSED USING HYPACK 2017 INTEGRATED SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING RTK GNSS EQUIPMENT AND TECHNIQUES.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
 - MAP SOUNDINGS ARE BINNED AT 24 FEET AND ARE SHOAL-BIASED. CONTOURS ARE BASED ON 12 FEET BINNED SHOAL-BIASED SOUNDINGS. VOLUME SOUNDINGS ARE BINNED AT 3 FEET AND ARE MEAN VALUE SOUNDINGS.

SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
1277-1 1984	1,841,622.39	1,550,745.71	32.11	3.25 INCH USACE SBC
1277-2 1984	1,840,494.00	1,550,879.74	30.86	3.25 INCH USACE SBC
1277-3 1984	1,840,427.98	1,550,887.60	30.21	3.25 INCH USACE SBC
5374 A 2007			25.62	NOAA/NOS TIDAL BM
5374 B 2007			24.87	NOAA/NOS TIDAL BM
DILL 1998	1,840,505.33	1,550,674.26	29.80	3.25 INCH FLAT ALCAP
DILLINGHAM 1947	1,849,383.08	1,551,809.45		3.5 INCH USCGS SBC
DILLINGHAM AZ MK	1,841,347.21	1,553,844.91		2 INCH USCGS IRON PIPE
PICKEL 1998	1,841,509.51	1,550,437.81	28.82	3.25 INCH FLAT ALCAP
WDS-2 2001	1,841,419.33	1,549,910.66	22.77	3.25 INCH DOMED ALCAP

DREDGE LIMITS

CORNER#	NORTHING	EASTING
DL-1	1,840,656.89	1,550,430.66
DL-2	1,840,645.10	1,550,447.69
DL-3	1,840,669.87	1,550,654.63
DL-4	1,841,364.89	1,550,571.44
DL-5	1,841,318.54	1,550,184.21

DREDGE LIMITS

CORNER#	NORTHING	EASTING
DL-6	1,840,930.19	1,550,305.22
DL-7	1,840,662.40	1,550,337.15
DL-8	1,840,535.05	1,550,329.96
DL-9	1,840,531.77	1,550,369.82
DL-10	1,840,653.73	1,550,376.57

SURVEY LIMITS

CORNER#	NORTHING	EASTING
SL-1	1,840,423.95	1,550,449.36
SL-2	1,840,458.17	1,550,413.54
SL-3	1,840,564.87	1,550,408.42
SL-4	1,840,610.25	1,550,787.66
SL-5	1,841,437.06	1,550,688.69
SL-6	1,841,461.80	1,550,593.75
SL-7	1,841,405.12	1,550,578.98
SL-8	1,841,432.20	1,550,396.29
SL-9	1,841,432.01	1,550,133.89

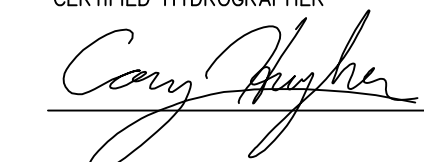
SURVEY LIMITS

CORNER#	NORTHING	EASTING
SL-10	1,841,362.83	1,550,065.66
SL-11	1,840,909.22	1,550,207.01
SL-12	1,840,362.44	1,550,272.21
SL-13	1,840,166.00	1,550,359.57
SL-14	1,839,293.60	1,550,359.57
SL-15	1,839,293.60	1,551,455.40
SL-16	1,840,166.00	1,551,455.40
SL-17	1,840,166.00	1,550,808.47

DISPOSAL LIMITS

CORNER#	NORTHING	EASTING
DS-1	1,839,502.58	1,551,238.87
DS-2	1,839,739.66	1,551,159.55
DS-3	1,839,644.47	1,550,875.05
DS-4	1,839,407.39	1,550,954.38

THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE OVERSIGHT OF AN ALCM/THSDM CERTIFIED HYDROGRAPHER


 CORY S. HUGHES (CH) (245)



US Army Corps of Engineers - ALASKA DISTRICT

CONTRACT NO. W15H017C-0005
 CONTINUATION: ALASKA MARINE EXCAVATION
 CITY: ANCHORAGE STATE: ALASKA
 PROJECT: DILLINGHAM HARBOR POST DREDGE SURVEY
 DRAWN BY: JBERE ALASKA 89006-8988
 CHECKED BY: JBERE ALASKA 89006-8988
 APPROVED BY: JBERE ALASKA 89006-8988
 DATE: 17 June 2017

**DILLINGHAM, ALASKA
 DILLINGHAM HARBOR
 POST DREDGE SURVEY
 JUNE 1-2, 2017**

SHEET IDENTIFICATION

5-DIL-92-07-45
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