



SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATE(S) BETWEEN JUNE 22, 2016 & JUNE 06, 2018
 SOUNDING TYPE: SINGLE TRANSDUCER
 SOUNDER SETTING MIN/INST VEL. OF SOUND 1436 m/s
 DEPTH GATE USED N/A FRE. OF TRANS. 210 KHZ
 POSITIONING SYSTEM USED TRIMBLE R7 GNSS DOP(S) (WITH ODP)
 LAND SURVEY POSITION BY TRIMBLE R7 GNSS DOP(S) (WITH ODP)
 DATA TAPE/DISC(S) USED
 CAD DRAWING FILE(S)
 TIDAL REDUCTION SCHEME

OFFICE PROCESSOR EDDIE BEARNS
 DATE OF PROCESSING JUNE 2018
 MODE OF PLOTTING LEAST OF MINIMUM DEPTHS
 MATRIX CELL WIDTH X LENGTH
 REDUCTION OF MATRIX CELLS

PL NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
2003017	579541.081	5795268.285	8.132 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK
798-1988	579642.353	5795263.423	5.664 m	I.P. WITH CAP SET IN BEDROCK
776-1988	579614.23	5795270.68		I.P. WITH CAP SET IN BEDROCK
PWC 1-2010	579191.040	579541.224	7.01 m	X-CUT IN GUY WIRE ANCHOR
PWC 1-2013	579279.824	579544.953	3.51 m	BOLT SET IN BEDROCK (BOLT MISSING)
F.I.P. 2018	579280.252	579543.079	2.98 m	NAIL IN WOODEN DECK OF CRIB FOR DOCK(S)
95F9334			6.298 m	CHS BRASS PLAQUE SET IN BEDROCK
95F9337			8.525 m	CHS BRASS PLAQUE SET IN BEDROCK
95F9338			4.078 m	CHS BRASS PLAQUE SET IN BEDROCK

ALL SOUNDINGS & ELEVATIONS IN METRES.
 ALL SOUNDINGS & ELEVATIONS REFERRED TO CHS BM 95F9336 ELEV. +6.298m (BRASS PLAQUE SET IN BEDROCK)
 SOUNDINGS TAKEN USING NAVISOUND 210 ECHO SOUNDER AND POSITIONED BY TRIMBLE R7 GNSS DIFFERENTIAL GPS POSITIONING SYSTEM ON MAY 08, 2018 BY PWGSC SURVEY CREW.
 COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 22, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).
 SOUNDINGS WERE REDUCED BY DIGITRACE & RE-CHECKED FROM SOUNDING SHEETS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.
 SOUNDINGS WERE REDUCED USING HYPACK MAX VER. 2013.1*.
 SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.
 ALL FIELD NOTES ARE IN MARY'S HARBOUR BOOK #216.

LEGEND

- SYMBOLS**
- ⊙ ANCHOR BLOCK
 - ⊙ BOLLARD
 - ⊙ BORDHOLE
 - ⊙ BOUNDARY MARKER
 - ⊙ CARD POSITION MARKER
 - ⊙ GATCH BATH
 - ⊙ CLEFT
 - ⊙ CULVERT
 - ⊙ DREDGE CONTROL
 - ⊙ ELECTRICAL OUTLET
 - ⊙ FIRE HYDRANT
 - ⊙ FISH HANDLING EQUIP.
 - ⊙ FOG HORN
 - ⊙ FUEL PUMP
 - ⊙ H PILE
 - ⊙ HORIZONTAL CONTROL
 - ⊙ ICE PLANT
 - ⊙ INVERT PIPE
 - ⊙ JOB CRANE
 - ⊙ PLANK POLE
 - ⊙ LUCKER
 - ⊙ LIFE RING
 - ⊙ LIGHT STANDARD
 - ⊙ MARSH
 - ⊙ MARSH/TOWER
 - ⊙ NAVIGATION LIGHT
 - ⊙ OBSERVED BUOY
 - ⊙ OBSERVED SPAR BUOY
 - ⊙ PIPE PILE
 - ⊙ RANCE LIGHT
 - ⊙ SAFETY POST
 - ⊙ SEWER OUTFLOW PIPE
 - ⊙ SIGN
 - ⊙ TELEPHONE POLE
 - ⊙ TELEPHONE
 - ⊙ TIDE GAUGE/STAFF
 - ⊙ TREE
 - ⊙ UTILITY POLE
 - ⊙ VERTICAL CONTROL
 - ⊙ WATER TAP/OUTLET
 - ⊙ WATER VALVE
 - ⊙ WATER WELL
 - ⊙ WOOD PILE
- LINE TYPE**
- ⊙ ANCHOR STONE
 - ⊙ CL RAILROAD
 - ⊙ DRAIN PIPE
 - ⊙ EDGE RAMP / SHOULDER
 - ⊙ FENCE LINE
 - ⊙ FLOODING BREAKDOWN
 - ⊙ GRAVEL PAVE
 - ⊙ HIGH WATER MARK
 - ⊙ LOW WATER MARK
 - ⊙ MARSH OUTLINE
 - ⊙ PROPERTY BOUNDARY
 - ⊙ RANGE LIGHT STANDARD
 - ⊙ RETAINING WALL
 - ⊙ RPPAP
 - ⊙ TOE OF BANK
 - ⊙ TREE LINE
 - ⊙ UNDERGROUND CABLE

LEGEND:
 [SHADING] INDICATES NEW BREAKWATER

GPS COORDINATES

COORDINATE	EASTING	NORTHING
A	579190.4052	5796512.3996
B	579258.0188	5796461.3821
C	579322.2173	5796488.9324



SMALL CRAFT HARBOURS



NOTES:
 1. ALL ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.

PROVINCE OF NEWFOUNDLAND
PERMIT HOLDER
 This Permit Allows
 APN ENGINEERING INC.
 To practice Professional Engineering in Newfoundland and Labrador. Permit No. as issued by APB2011_20282, which is valid for the year 2018.

STAMP
 REGISTRED PROFESSIONAL ENGINEER
 NEIL C. HUNT
 11/20/18
 NEWFOUNDLAND & LABRADOR

A	ISSUED FOR TENDER	11/20/18
revisions		date
project		project

BREAKWATER CONSTRUCTION
MARY'S HARBOUR, NL

NEW SITE PLAN

designed N.H.	concu
date NOVEMBER, 2018	
drawn P.H.	desine
date NOVEMBER, 2018	
approved	approve
Tender	Submission
DFD Project Manager	
project number	no. du projet
722614	
drawing no.	no. du dessin
C2	