

LEGEND:
 ② INDICATES DIVING PROBES BY SPARKS SUBSEA CONSTRUCTION (VALUE SHOWN IS PENETRATION IN METRES OF A 10M REBAR USING A 10 POUND HAMMER). CONSIDER LOCATIONS SHOWN TO BE APPROXIMATE. THE COMPLETE DIVING REPORT IS AVAILABLE FOR REVIEW BY CONTACTING THE DEPARTMENTAL REPRESENTATIVE.

SURVEY NOTES

SURVEY PARTY CHIEF RICHARD HEALEY
 SURVEY VESSEL ALUMINUM BOAT
 SURVEY DATES BETWEEN JUNE 22, 2016 & JUNE 06, 2018
 SOUNDING TYPE: SINGLE TRANSDUCER
 SOUNDING 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 DOPS (WITH OTF)
 LAND SURVEY POSITION BY TRIMBLE R7 GNSS DOPS (WITH OTF)
 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

CONTROL POINTS	PL NAME	EASTING	NORTHING	CD ELEV	DESCRIPTION
2003617	579541.081	5795268.285	8.132 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK	
798-1988	579642.353	5795263.433	5.664 m	I.P. WITH CAP SET IN BEDROCK	
776-1988	579614.23	5795270.88		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	579270.824	579534.953	3.51 m	BOLT SET IN BEDROCK (BOLT MISSING)	
F.I.P. 1-2018	579280.252	5796543.079	2.98 m	NAIL IN WOODEN DECK OF CRIB FOR DOCKS	
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 NAUSSOUND 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. 2013A*.
 SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.
 ALL FIELD NOTES ARE IN MARY'S HARBOUR BOOK #216.

LEGEND

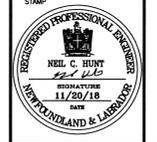
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| <ul style="list-style-type: none"> ⊙ ANCHOR BLOCK ⊙ BOLLARD ⊙ BONDHOLE ⊙ BOUNDARY MARKER ⊙ CATCH BASIN ⊙ CULVERT ⊙ GROUND CONTROL ⊙ ELECTRICAL OUTLET ⊙ FIRE HYDRANT ⊙ FRESH AIR ⊙ FISH HANDLING EQUIP. ⊙ FOG HORN ⊙ FUEL PUMP ⊙ H PILE ⊙ HORIZONTAL CONTROL ⊙ ICE PLANT ⊙ INVERT PIPE ⊙ JOB CRANE ⊙ PLANT POLE | <ul style="list-style-type: none"> ⊙ LAZER ⊙ LIFE RING ⊙ LIGHT STANDARD ⊙ MANHOLE ⊙ MARSH ⊙ MAST/TOWER ⊙ NAVIGATION LIGHT ⊙ OBSERVED BUOY ⊙ CLEAN ⊙ PIPE PILE ⊙ RAKE LIGHT ⊙ SAFETY POST ⊙ SEWER OUTFLOW PIPE ⊙ SIGN ⊙ TELEPHONE POLE ⊙ TELEPHONE POLE ⊙ TIDE GAUGE/STAFF ⊙ TREE ⊙ UTILITY POLE ⊙ VERTICAL CONTROL ⊙ WATER TAP/OUTLET ⊙ WATER VALVE ⊙ WATER WELL ⊙ WOOD PILE |
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|---|--|
| <ul style="list-style-type: none"> ⊙ ANCHOR BLOCK ⊙ CL PAVER/ROAD ⊙ DRAIN PIPE ⊙ EDGE ROAD / SHOULDER ⊙ FENCE LINE ⊙ FLOORING BREAKDOWN ⊙ GRAVEL PAV. ⊙ HIGH WATER MARK ⊙ LOW WATER MARK | <ul style="list-style-type: none"> ⊙ MARSH OUTLINE ⊙ PROPERTY BOUNDARY ⊙ RANGE LIGHT EXTENSION ⊙ RETAINING WALL ⊙ RFRAP ⊙ TREE LINE ⊙ UNDERGROUND CABLE |
|---|--|

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
 ATN ENGINEERING INC.
 To practice Professional Engineering in Newfoundland and Labrador.
 Permit No. as issued by APBONL #20282, which is valid for the year 2018.



A	ISSUED FOR TENDER	11/20/18
revisions	date	

BREAKWATER CONSTRUCTION
MARY'S HARBOUR, NL

SOUNDING AND TOPOGRAPHIC SURVEY

designed	N.H.	concu
date	NOVEMBER, 2018	
drawn	P.H.	desine
date	NOVEMBER, 2018	
approved		approve
Tender	<i>Paul Curran</i>	Submission
DFO Project Manager		
project number	722614	no. du projet
drawing no.	C1	no. du dessin



Plot Scale: PLOT SCALE