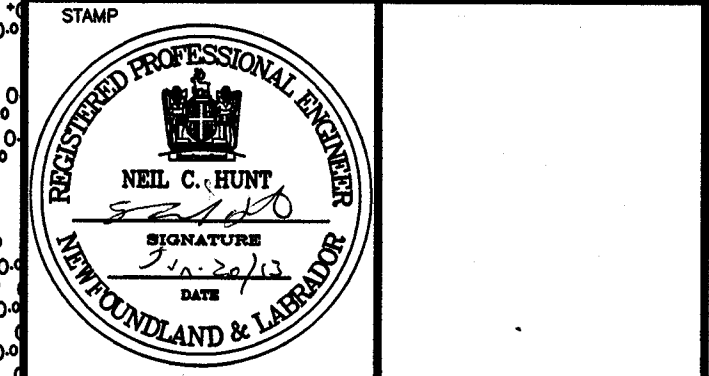


PROVINCE OF NEWFOUNDLAND  
PERMIT HOLDER  
This Permit Allows  
APN ENGINEERING INC.  
To practice Professional Engineering  
in Newfoundland and Labrador  
Permit No. as issued by APENL F0882  
which is valid for the year 2013.



LEGEND

- SYMBOLS**
- ANCHOR BLOCK
  - BOLLARD
  - BORNDOLE
  - BOUNDARY MARKER
  - CARD POSITION BUOY
  - CATCH BASIN
  - CULVERT
  - DEBRICK
  - DISPOSAL
  - DREDGE CONTROL
  - ELECTRICAL OUTLET
  - FIRE HYDRANT
  - FIRST AID
  - FISH HANDLING EQUIP.
  - FUEL PUMP
  - FUEL TAP
  - H PILE
  - HORIZONTAL CONTROL
  - ICE PLANT
  - INVERT PIPE
  - JIB CRANE
  - FLAG POLE
  - LADDER
  - LIFE RING
  - LIGHT STANDARD
  - MANHOLE
  - MARKER
  - MAST/TOWER
  - NAVIGATION LIGHT
  - OBSERVED BUOY
  - OBSERVED SPAR BUOY
  - PIPE PILE
  - RANGE LIGHT
  - SAFETY POST
  - SEWER OUTFLOW PIPE
  - SIGN
  - TELEPHONE
  - TELEPHONE POLE
  - TIDE GAUGE/STAFF
  - TREE
  - UTILITY POLE
  - VERTICAL CONTROL
  - WATER TAP/OUTLET
  - WATER VALVE
  - WATER WELL
  - WOOD PILE
- LINE TYPE**
- ARMOUR STONE
  - CL RAILROAD
  - DRAIN PIPE
  - EDGE ROAD / SHOULDER
  - FENCE LINE
  - FLOATING WAVEBREAK
  - GUARD RAIL
  - HIGH WATER MARK
  - LOW WATER MARK
  - MARKER OUTLINE
  - PROPERTY BOUNDARY
  - RANGE LIGHT EXTENSION
  - RETAINING WALL
  - RIPRAP
  - TOE OF BANK
  - TREE LINE
  - UNDERGROUND CABLE

SURVEY NOTES

**SURVEY PARTY CHIEF** EDDIE BEARNS  
**SURVEY VESSEL** ALUMINUM BOAT  
**SURVEY DATE(S)** BETWEEN OCTOBER 24, 2010 - AUGUST 23, 2011 & NOV. 08, 2012

**SOUNDER TYPE** SINGLE TRANSDUCER  
**SOUNDER SETTING** MIN. DIST. 1520 m/s  
**DEPTH GATE USED** N/A  
**POSITIONING SYSTEM USED** DGPS (WITH OTF)  
**LAND SURVEY POSITION BY** DGPS (WITH OTF)  
**DATA TAPE/LOGS USED** CAD DRAWING FILE(S)  
**TOTAL REDUCTION SCHEME**

**OFFICE PROCESSOR** EDDIE BEARNS  
**DATE OF PROCESSING** NOVEMBER 2012

**MODE OF PLOTTING** LEAST OF MINIMUM DEPTHS  
**MATRIX CELL WIDTH** 10m  
**REDUCTION OF MATRIX CELLS**

PL. NAME	EASTING	NORTHING	CD ELEV.	DESCRIPTION
2003017	578541.081	5796288.285	8.132 m	PROVINCIAL BRASS PLAQUE SET IN BEDROCK
708-1988	578642.353	5796280.493	5.864 m	I.P. WITH CAP SET IN BEDROCK
PWC 1-94	578657.743	5796336.488	2.527 m	X-CUT IN GUY WIRE ANCHOR
PWC 2-94	579685.308	5796291.608	2.485 m	BOLT SET IN CONCRETE DECK
95F9336			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 NAVSOUND 210 ECHO SOUNDER AND POSTIONED BY TRIMBLE DIFFERENTIAL GPS POSITIONING SYSTEM ON OCTOBER 24, 2010, AUGUST 23, 2011 & NOV. 08, 2012 BY PWSC SURVEY CREW.  
COORDINATES FOR HORIZONTAL CONTROL ARE GIVEN ON THE U.T.M. MAPPING PLANE, ZONE 21, USING THE NORTH AMERICAN DATUM OF 1983 (NAD83).  
SOUNDINGS WERE REDUCED BY DIOTRACE & RE-CHECKED FROM SOUNDING CHARTS BEFORE BEING CORRECTED FOR TIDE & BAR CHECK CORRECTION.  
SOUNDINGS WERE REDUCED USING HYPACK MAX VER.02.12.  
SPEED OF SOUND WAS OBTAINED USING A DIGIBAR-PRO VELOCIMETER.  
NOTE: NEW BUILDING WAS LOCATED ON JULY 23, 2012.

**GENERAL NOTES:**

- ALL DIMENSIONS IN MILLIMETRES.
- ALL ELEVATIONS IN METRES.

SCALE/ÉCHELLE: 1:250  
0m 5m 10m 15m 20m 25m

0	ISSUED FOR TENDER	13/06/14
revisions	project	date
project		
HARBOUR DEVELOPMENT PHASE I		
MARY'S HARBOUR, LABRADOR		
drawing	design	
EXISTING SOUNDING AND TOPOGRAPHIC SURVEY INNER BASIN SITE		
designed N.H.	conçu	
date FEBRUARY 11, 2013		
drawn P.H.	dessiné	
date FEBRUARY 11, 2013		
approved	approuvé	
date		
Tender	Submission	
PWOSC Project Manager	Administrateur de projets TPSC	
project number	no. du projet	
R.064896.001		
drawing no.	no. du dessin	
C2 OF 11		
E-DRM/GDD-E 444545 Ver 1		