

**Underwater Probes
Port Saunders, Newfoundland**

Performed for:
DFO

Prepared by:

Sea-Force Diving Ltd.
24 Dundee Avenue
Donovan's Industrial Park
Mt. Pearl, NL, A1N 4R7

**Underwater Probes
Port Saunders, Newfoundland**

DATE OF INSPECTION:

December 19th, 2014

LOCATION:

Port Saunders, NL

REPORT WRITTEN BY:

Tony Breen, Dive Supervisor
Sea-Force Diving Ltd.

DIVING CREW:

Tony Breen, Supervisor
Dave Pritchard, Diver
Justin Penton, Diver
Jared Smith, Diver

WEATHER CONDITIONS:

Temperature: -2 °C
Wind: NE - 50 km
Visibility: Overcast/Snow
Tide: N/A

UNDERWATER CONDITIONS:

Temperature: + 4°C
Visibility: .1 m – .3 m
Current: Tidal

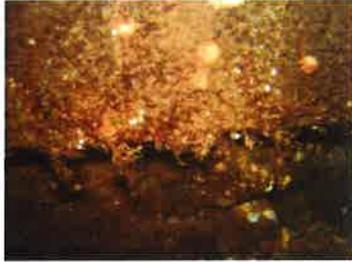
**Underwater Probes
Port Saunders, Newfoundland**

INTRODUCTION:

A diving crew was mobilized Port Saunders, NL. Sea-Force Diving obtained probes, timber & sediment samples as per call up #47. Sea-Force Diving was provided drawings with locations to reference by PWGSC representative Mr. Eddie Bearns.

SAMPLES/PROBES:

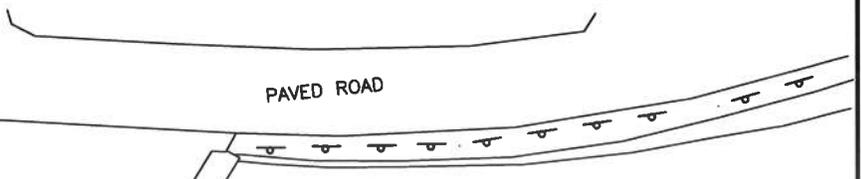
See attached drawings for probe results and type of seafloor in area for reference.

Location	Sediment Samples	Timber samples	Probes
Port Saunders	There is a total of five sediment samples taken at this location. All samples taken at locations identified on drawing supplied by PWGSC. Samples were collected at the top layer of the substrate.	The timber samples were taken at areas identified by PWGSC as per drawings provided. Samples were taken at from several areas i.e. longitudinal & fenders. 	See attached drawing for location of probes and found results. The diver used a 2000mm long X 15mm piece of rebar with a 2.5kg hammer. Any readings over 2000mm are noted as 2m+ on drawing. No pictures due to extremely poor visibility.

All samples were given to Maxxam Analytics for analysis.

CONCLUSION:

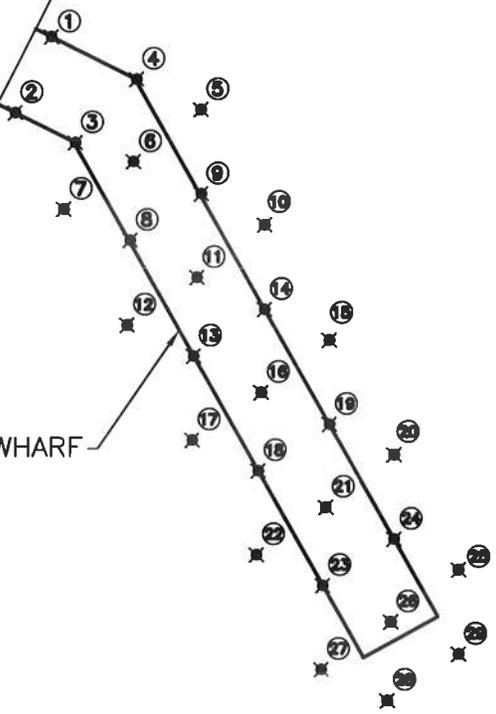
If you have any further concerns regarding these probes and samples please contact Tony Breen by phone (709) 753-2021, cell phone (709) 728-2068 and by facsimile (709) 753-2035 or by e-mail tony@seaforcediving.com.



CONCRETE DECK

CONCRETE DECK

PROPOSED WHARF



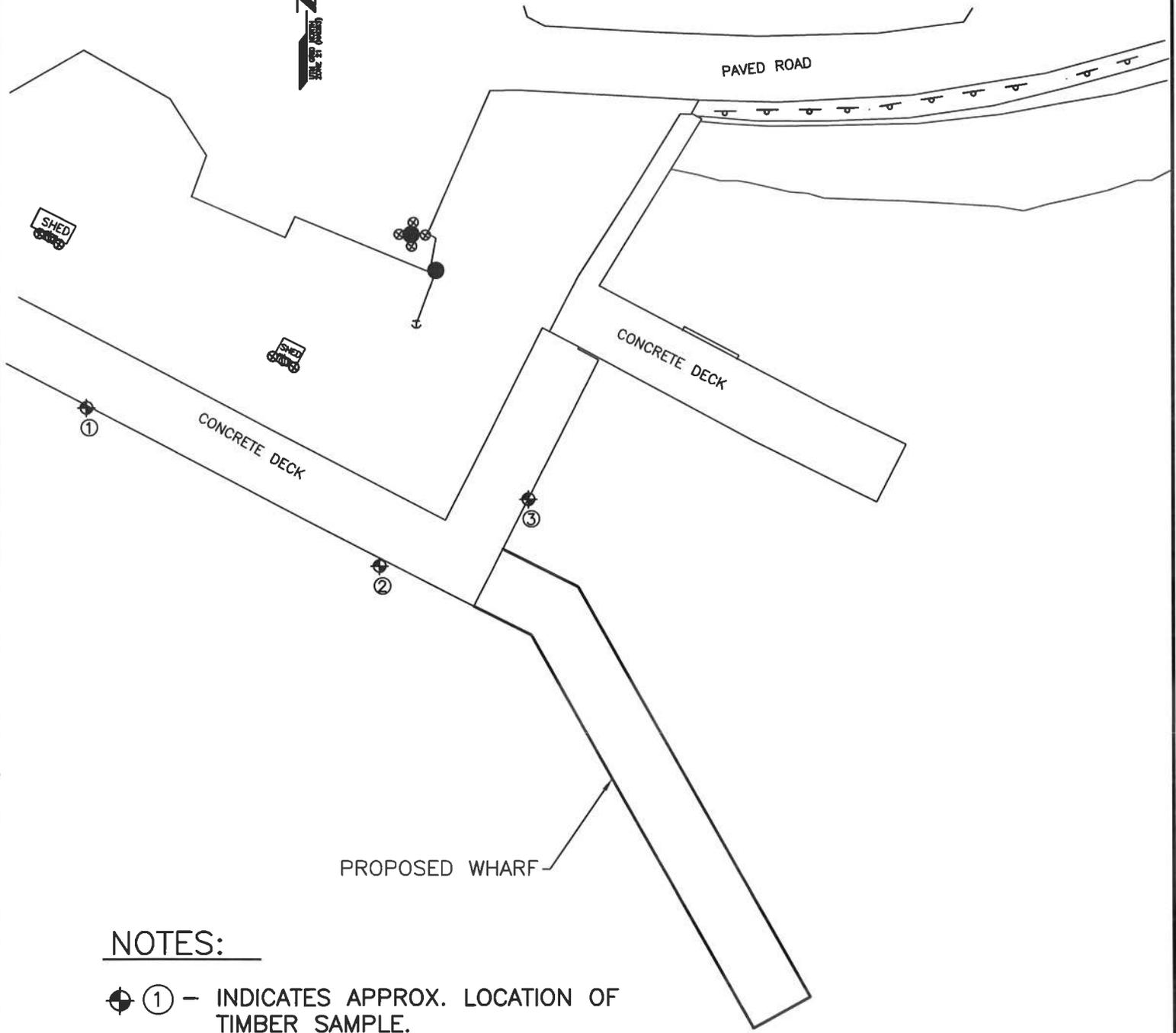
PROBE LOCATIONS AT PORT SAUNDERS, NL

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DECEMBER 2014

PROBE #	PENETRATION	TYPE OF MATERIAL
# 1	0.30m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 2	0.30m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 3	0.20m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 4	0.10m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 5	0.08m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 6	0.10m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 7	0.20m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 8	0.05m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 9	0.10m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 10	0.10m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 11	0.08m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 12	0.20m	SAND/SILT, MUDDY BOTTOM THEN HARD
# 13	0.10m	SAND/SILT BOTTOM THEN HARD
# 14	0.08m	SAND/SILT BOTTOM THEN HARD
# 15	0.20m	SAND/SILT BOTTOM THEN HARD
# 16	0.10m	SAND/SILT BOTTOM THEN HARD
# 17	0.10m	SAND/SILT BOTTOM THEN HARD
# 18	0.20m	SAND/SILT BOTTOM THEN HARD
# 19	0.15m	SAND/SILT BOTTOM THEN HARD
# 20	0.20m	SAND/SILT BOTTOM THEN HARD
# 21	0.10m	SAND/SILT BOTTOM THEN HARD
# 22	0.20m	SAND/SILT BOTTOM THEN HARD
# 23	0.20m	SAND/SILT BOTTOM THEN HARD
# 24	0.30m	SAND/SILT BOTTOM THEN HARD
# 25	0.30m	SAND/SILT BOTTOM THEN HARD
# 26	0.30m	SAND/SILT BOTTOM THEN HARD
# 27	0.20m	SAND/SILT BOTTOM THEN HARD
# 28	0.30m	SAND/SILT BOTTOM THEN HARD
# 29	0.30m	SAND/SILT BOTTOM THEN HARD

NOTES:

- DIVERS USED 2m STEEL ROD & 5LB. HAMMER
- BOTTOM CONSIST OF SAND/SILT AND THEN ROCK MATERIAL.
- ⊗ (45) - INDICATES APPROX. LOCATION OF PROBE AND NUMBER.



NOTES:

⊕ ① - INDICATES APPROX. LOCATION OF
TIMBER SAMPLE.

TIMBER SAMPLE LOCATIONS AT
PORT SAUNDERS, NL

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DECEMBER 2014

