

## **Appendix A**

### *Diving Probes Report*

*Central Diving Ltd. (09-25-15)*

## Change Islands Probes

Call Up # 75  
Project # R. 076635.019  
Standing Offer # E0224-140972/001/PWD  
09/25/2015

Report Completed By: Mary-Lynn Brinson

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**Date** September 25, 2015

**Arrived on Site** 0930

***Dive Crew***

Benn Simms	Diver
Steven Manduca	Diver
Dale Edwards	Diver
Tyler Green	Diver

***Climate Conditions***

Wind	Southeast 20 km
Temperature	12° C
Weather	Sunny

***Water Conditions***

Sea State	0 m
Temperature	N/A
Visibility	2 m

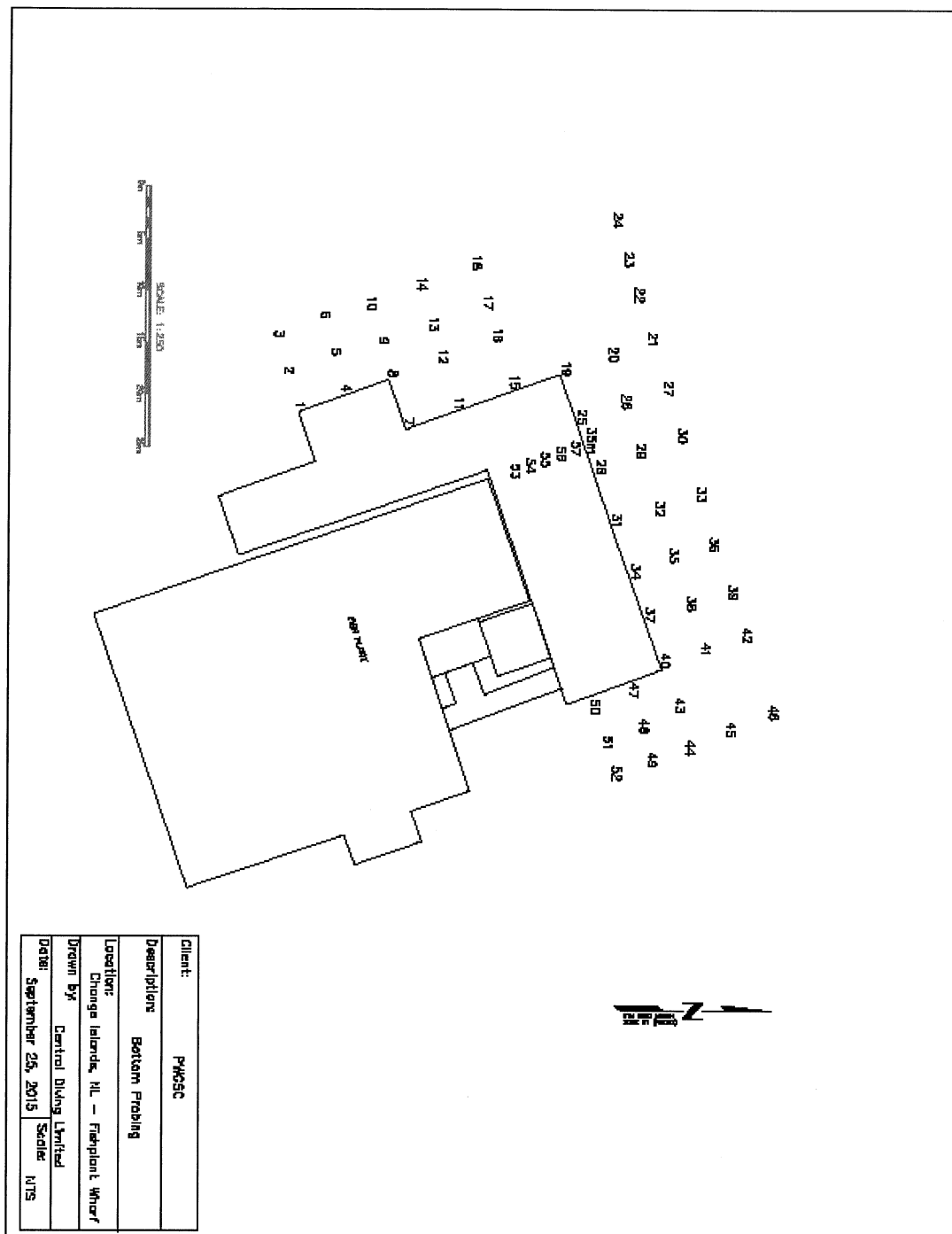
***Scope and Observations***

The scope of work involves conducting bottom probes in the area around the existing fish plant wharf. The probes were conducted on a 5 meter by 3 meter grid. Probes were completed using a 2.5kg hammer which was used to drive a 5mm diameter steel rod into the sea floor to refusal. The steel rod was 2 meters long.

Dive gear was assembled and safety checks were completed. A hazard assessment of the dive site was conducted and a dive specific safety plan was written and discussed with all members of the dive team.

At 1200 diver Steve Manduca entered the water to carry out probes. Fifty-seven bottom probes were completed along a 3 meter x 5 meter grid. The 5 meter separation was along the wharf and the 3 meter separation was away from the wharf. Five of the probes were completed underneath the wharf. Diver Manduca exited the water at 1433.

Figure 1: Probe Location Sketch



**Table 1.1: Probe Findings**

Probe #	Penetration Depth (m)	Bottom Type	Probe #	Penetration Depth (m)	Bottom Type
P1	0.1	Rock	P30	0.3	Rocks
P2	0.1	Large Rocks	P31	0.1	Large Rock
P3	0.2	Silt/Rocks	P32	0.1	Rocky
P4	0.2	Small Rocks and Silt	P33	0.3	Mud/Silt
P5	0.2		P34	0.2	Rocks/Mud/Silt
P6	0.3		P35	0.2	Rocky
P7	0.3	Medium Rocks	P36	0.4	Rocky
P8	0.2	Large Rocks	P37	0.6	Silt/Small Rock
P9	0.2	Large Rocks	P38	0.4	Rocky/Silt
P10	0	Bedrock	P39	0.6	Large rock/Mud/Silt
P11	0.4	Rocky	P40	0.5	Mud/Small Rock
P12	0	Large Rock	P41	0.5	Mud/Small Rock
P13	0	Bedrock	P42	0.5	Mud/Silt
P14	0.1	Large Rock	P43	0.4	Rocky/Mud
P15	0.4	Rock /Silt	P44	0.5	Small Rock/Silt
P16	0.4	Rock/Silt	P45	0.7	Small Rock/Silt
P17	0.3	Large Rock	P46	0.6	Small Rock
P18	0.2	Large Rock	P47	0.5	Rocky
P19	0.3	Small Rocks	P48	0.8	Mud/Silt
P20	0.4	Silt/Rocks	P49	0.5	Mud/Silt
P21	0.2	Large Rocks	P50	0.6	Mud /Rocks
P22	0.3	Large Rocks	P51	0.5	Rocky/Mud
P23	0.1	Rocks	P52	0.2	Large Rocks
P24	0.5	Small Rocks /Silt	P53	0	Large Boulder
P25	0.2	Large Rocks/Silt	P54	0.2	Medium Rocks
P26	0.1	Large Rocks/Silt/Gravel	P55	0.5	Rocky
P27	0.2	Rocks/Silt	P56	0.5	Large Rocks/Mud/Silt
P28	0.3	Silt	P57	0.8	Large Rocks/Silt
P29	0.1	Rocks/Mud/Silt			

***Emergency Numbers-Change Islands***

- Diving will be done in accordance with D.C.E.I.M dive tables.
- Diver will have surface supplied air, video, bail out and communication.
- Standby will have surface- supplied air, bailout and communication.
- A site specific hazard assessment will be conducted by dive supervisor and the written dive plan will be discussed with all persons associated with the dive activities.
- All dive gear will undergo pre-dive checks and Medicor will be notified of diving operations. The number for the Queen Elizabeth 2 hospitals hyperbaric support facility will be included in the list of emergency numbers.

Proper P.P.E. will be worn by all members of the dive crew at all times.

<b>Medicor</b>	<b>709-777-6433</b>
<b>R.C.M.P</b>	<b>709-266-2251/1-800-709-7267</b>
<b>Fire Dept</b>	<b>709-621-5111</b>
<b>Q.E.2</b>	<b>1-902-473-7998</b>
<b>O .H. &amp; S.</b>	<b>709-722-7121</b>
<b>Environmental Emergency</b>	<b>709- 772-2083</b>
<b>Industrial Accidents</b>	<b>709-729-4444</b>
<b>Hospital</b>	<b>709-266-2221 or 709-651-2500</b>
<b>Clinic</b>	<b>709-621-6161</b>
<b>Harbour Authority</b>	<b>709-621- 6251</b>

**Hazard Assessment****HAZARD ASSESSMENT**

Job		Assessment Team Central Diving			
Bottom Probes		Ben Simms / Steven Marduca			
Location		Date			
Change Islands		Sept. 25, 2015			
Signature of Manager					
Dale Edwards					
✓	Hazards Identified	Hazards Rank A/B/C	Recommended Controls	Completed by:	Date
✓	Boat Traffic	A	Flagging/Visual/Notify HA of Activities	D.E	Sept. 25/15
✓	Equipment Failure	A	Pre-Dive Checks / Abort Dive if Failure	D.E	"
✓	Entanglement	A	Carry Knife/Avoidance	D.E	"
✓	Slips/Trips	A	Tidy Work Area/Aided Movement/Proper Footwear	D.E	"
✓	Pinch Point	A	Use of Proper Tools for Measuring/Avoid Placing Hands or Feet Near Potential Pinching Hazards	D.E	"
✓	Exit/Entry	A	Aided Movement/Ladder	D.E	"
Hazard Ranking: A-Controls must be put in place before work commences B-Controls must be put in place within two days C-Controls must be put in place within one week					