

2013

# Fermeuse

## Sediment Samples and Probes

Call Up # 52

Project # R.058703.013

Standing Offer # E0224101277/003

Central Diving Ltd

14/01/13



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***Date*** January 14, 2013

***Arrived on Site*** 1030

## ***Dive Crew***

|                 |       |
|-----------------|-------|
| Everett Brinson | Diver |
| Robert Cox      | Diver |
| Dale Edwards    | Diver |
| Jordan Butler   | Diver |

## ***Climate Conditions***

|             |                 |
|-------------|-----------------|
| Wind        | Northeast 40 km |
| Temperature | 5° C            |
| Weather     | Cloudy          |

## ***Water Conditions***

|             |     |
|-------------|-----|
| Sea State   | 0 m |
| Temperature | N/A |
| Visibility  | 2m  |

## ***Scope of Work***

The purpose of the dive activities was to collect bottom samples from five sites and to conduct bottom probes in the footprint of the proposed new marginal wharf

At each sample location, two 250ml bottles were filled.

These samples were taken at a depth of four to ten centimetres below the surface of the sea floor. Approximately 83 probes were conducted, with penetration depths ranging from 0 to 1m. Probes were conducted along lines running through the footprint, perpendicular to the existing floating docks. The probes were taken 4m apart on these lines.

Bottom probes were taken moving from left to right along the footprint, starting from the outside limit of the footprint boundary located out past the end of the floating docks. The first probe in each row was conducted at the end of the line next to the floating docks. The individual rows were labeled from 'A' to "S" and each probe on the line was numbered 1, 2, 3 etc.

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

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At 1230, diver Jordan Butler entered the water to conduct bottom probes and to collect bottom sediment samples.

Diver completed 83 probes and collected samples from five sites.

At 1455, diver Jordan Butler exited the water.

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Figure 1: Probe Location Sketch

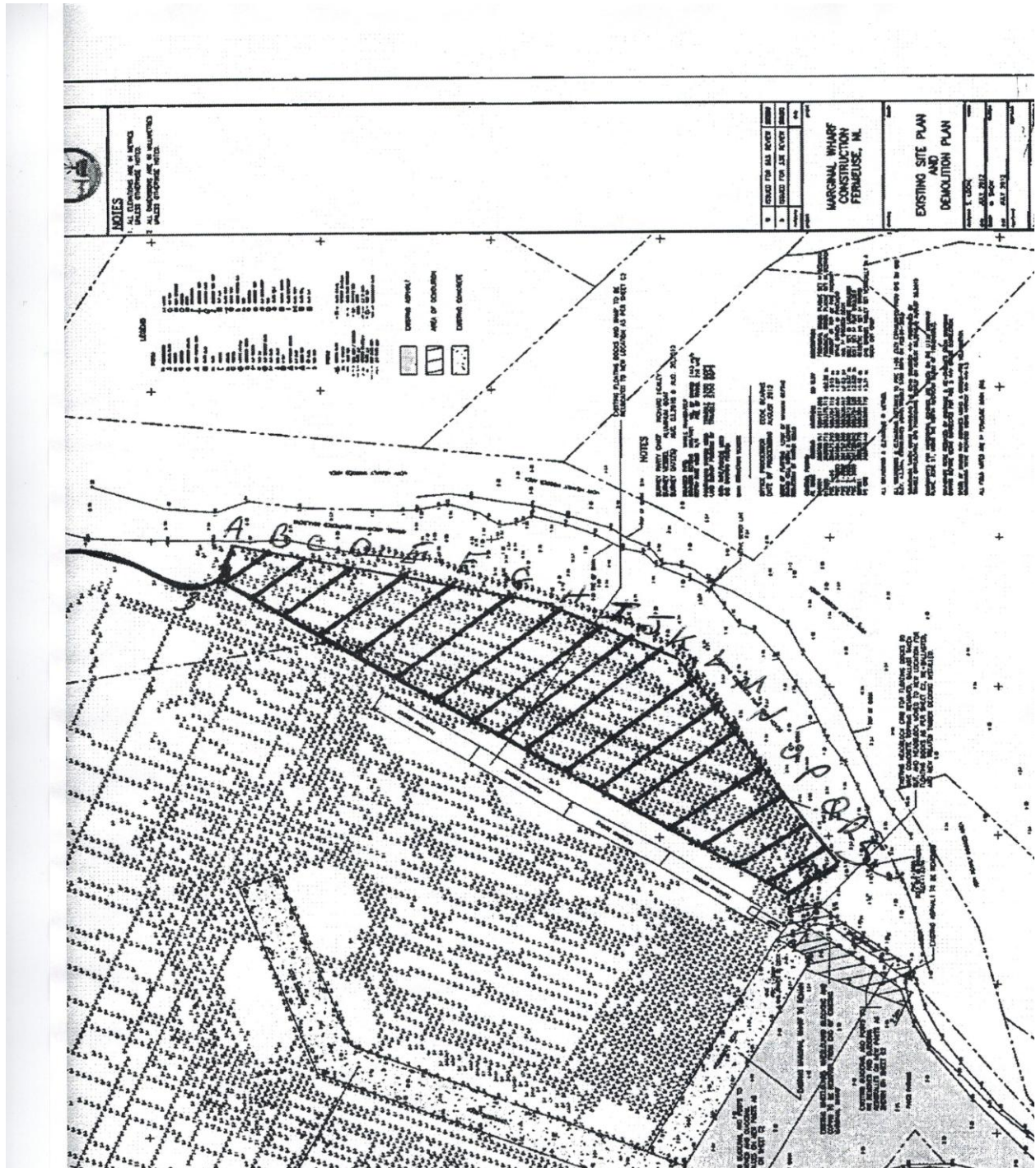
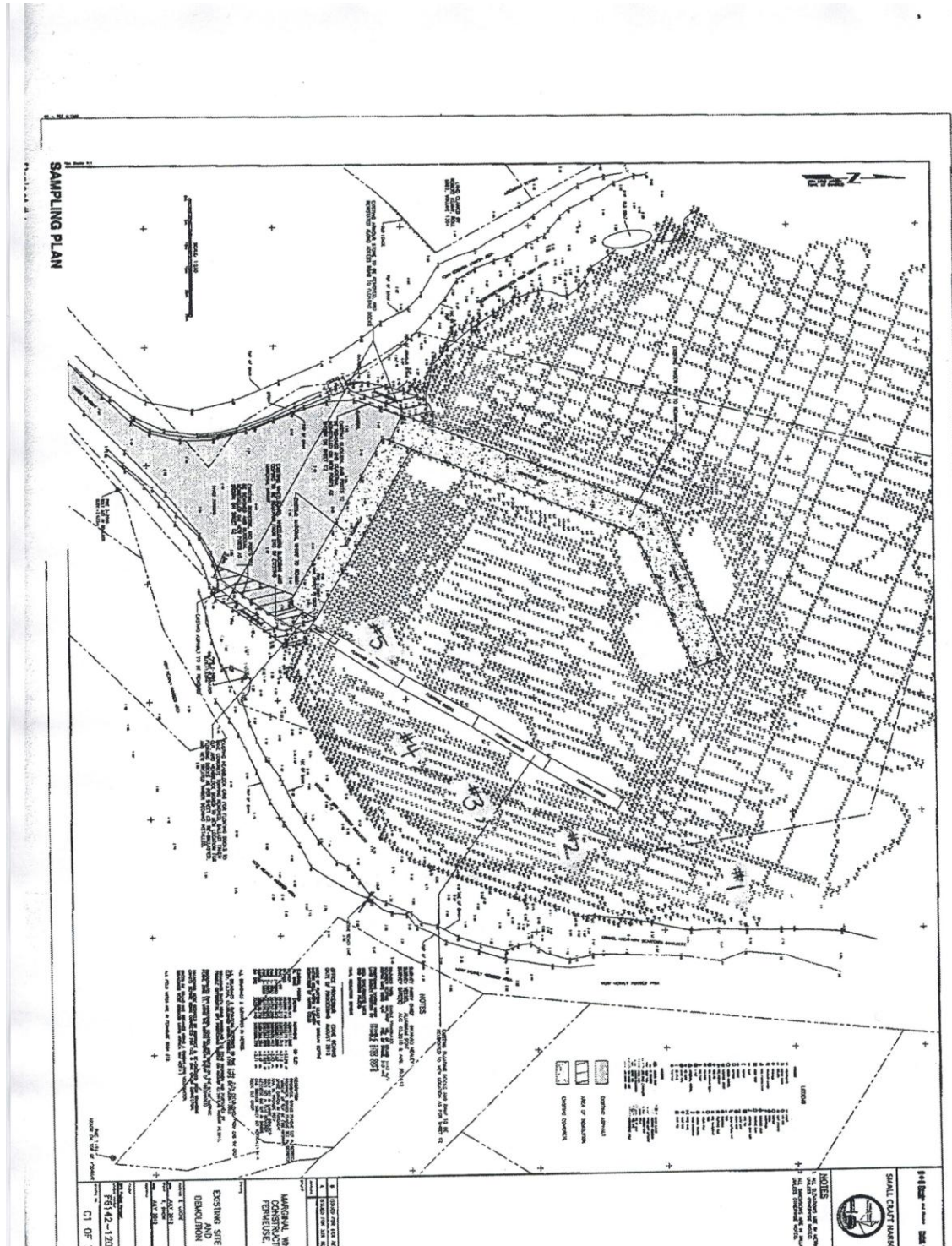




Figure 2: Sediment Sample Location Sketch



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***Table 1:0 Probe Findings***

| Probe #  | Depth (m) | Bottom Type                   |
|----------|-----------|-------------------------------|
| Line "A" |           |                               |
| 1        | .5        | Sand and Pebbles              |
| 2        | .8        |                               |
| 3        | .4        |                               |
| Line "B" |           |                               |
| 1        | .5        | Sand and Pebbles              |
| 2        | .5        |                               |
| 3        | .6        |                               |
| Line "C" |           |                               |
| 1        | .5        |                               |
| 2        | .3        |                               |
| 3        | .1        | Small boulders                |
| Line "D" |           |                               |
| 1        | .5        | Black sand and silt           |
| 2        | .2        |                               |
| 3        | .3        | Small boulders, sand and silt |
| 4        | .2        | Small boulders                |

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|          |    |                     |
|----------|----|---------------------|
| Line “E” |    |                     |
| 1        | .6 | Black silt          |
| 2        | .6 | Black silt          |
| 3        | .3 | Black silt          |
| 4        | .2 | Black silt          |
| 5        | .3 | Black silt          |
| Line “F” |    |                     |
| 1        | .6 | Black silt          |
| 2        | .4 | Black silt          |
| 3        | .3 | Black silt          |
| 4        | .3 | Black silt          |
| 5        | 0  | Blast rock          |
| Line “G” |    |                     |
| 1        | .8 | Silt                |
| 2        | .5 | Silt                |
| 3        | .4 | Silt                |
| 4        | .3 | Silt and blast rock |
| 5        | .4 | Silt                |
| Line “H” |    |                     |
| 1        | .8 | Silt                |
| 2        | .5 | Silt                |



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|          |    |                     |
|----------|----|---------------------|
| 3        | .4 | Silt and small rock |
| 4        | .5 | Silt and small rock |
| 5        | .3 | Silt and small rock |
| Line "I" |    |                     |
| 1        | .3 | Silt                |
| 2        | .4 | Silt                |
| 3        | .3 | Silt                |
| 4        | .6 | Silt                |
| 5        | .3 | Silt and Sand       |
| 6        | .1 | Silt and Sand       |
| Line "J" |    |                     |
| 1        | .4 | Silt                |
| 2        | .5 | Silt                |
| 3        | .6 | Silt                |
| 4        | .7 | Silt and Sand       |
| 5        | 1  | Silt and Sand       |
| 6        | .4 | Silt and Sand       |
| Line "K" |    |                     |
| 1        | .5 | Silt                |
| 2        | .8 | Silt                |
| 3        | .4 | Silt                |

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|          |    |                     |
|----------|----|---------------------|
| 4        | .6 | Silt                |
| 5        | .4 | Silt                |
| 6        | .3 | Small rocks/Pebbles |
| Line "L" |    |                     |
| 1        | .3 | Silt                |
| 2        | .3 | Silt                |
| 3        | .1 | Silt                |
| 4        | .1 | Silt                |
| 5        | .2 | Silt                |
| Line "M" |    |                     |
| 1        | .5 | Silt                |
| 2        | .7 | Silt                |
| 3        | .5 | Silt                |
| 4        | .3 | Silt                |
| 5        | .5 | Sand and Pebbles    |
| Line "N" |    |                     |
| 1        | .7 | Silt/Sand/Rock      |
| 2        | .6 | Silt/Sand/Rock      |
| 3        | .6 | Silt/Sand/Rock      |
| 4        | .2 | Silt/Sand/Rock      |
| 5        | 0  | Bedrock             |

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|          |    |                            |
|----------|----|----------------------------|
| Line “O” |    |                            |
| 1        | .4 | Silt and small pebbles     |
| 2        | .5 | Silt and small pebbles     |
| 3        | .3 | Silt and small pebbles     |
| 4        | .1 | Silt and small pebbles     |
| Line “P” |    |                            |
| 1        | .5 | Silt and small pebbles     |
| 2        | .7 | Silt and small pebbles     |
| 3        | .3 | Silt and small pebbles     |
| 4        | .3 | Silt and small pebbles     |
| Line “Q” |    |                            |
| 1        | .5 | Silt and small pebbles     |
| 2        | .3 | Silt and small pebbles     |
| 3        | .4 | Silt and small pebbles     |
| Line “R” |    |                            |
| 1        | .3 | Silt mixed with blast rock |
| 2        | 0  | Bedrock                    |
| 3        | 0  | Bedrock                    |
| Line “S” |    |                            |
| 1        | .5 | Silt                       |
| 2        | .3 | Silt                       |

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