

**Acropak-200 Cast Sheet**

**FULL STATION**

Station # Station 34  
 Deep, Mid, Shallow, Shallow  
 Cast # Cast 5  
 Event # 4142  
 Date 12/14/13  
 ODF Salinity Box A  
 ODF Nutrients Rack Black

**GEOTRACES 10168 GEOTRACES 10170 GEOTRACES 10172**

|                        |                                 |                        |
|------------------------|---------------------------------|------------------------|
| Acropak: <u>Coffee</u> | Acropak: <u>Coffee</u>          | Acropak: <u>Coffee</u> |
| Sampler: <u>CZ</u>     | Sampler: <u>CZ</u>              | Sampler: <u>CZ</u>     |
| Depth: <u>1500</u>     | Depth: <u>1000</u>              | Depth: <u>750</u>      |
| Caro Pos: <u>1</u>     | Caro Pos: <u>3</u>              | Caro Pos: <u>5</u>     |
| Btl #: <u>13</u>       | Btl #: <u>19</u>                | Btl #: <u>21</u>       |
| Notes:                 | Notes:<br>* took Barbeau sample | Notes:                 |

**Sampling Order**

ODF Salinity 250 mL  
 ODF Nutrients 30 mL  
 Resing - Al 100 mL  
 Resing - Mn 100 mL  
 Saito, Co no headspace 2 x 60mL  
 Shiller - Ga 125 mL  
~~Moffett - Fe(II) 30 mL~~  
 Sedwick - dFe 2 x 125mL  
 Barbeau - Cu sp freeze 450 mL  
~~but specific depths \*~~  
 Buck - Fe sp freeze 450 mL  
 Bruland - metals 500 mL  
 Wu - metals 500 mL  
 Wu - colloids 500 mL  
 Flegal - Pb shallow 1000 mL  
~~Boyle - Pb mid/deep 2000 mL~~  
~~John - isos shallow 4000 mL~~  
~~John - isos mid/deep 1000 mL~~  
 Hawco/  
 Saito, Co headspace 1 x 60mL  
 Bruland/  
 Parke, Co 1 x 125mL  
 Moffett - Fe (total) 30 mL

**GEOTRACES 10174 GEOTRACES 10176 GEOTRACES 10178**

|                        |                        |                                 |
|------------------------|------------------------|---------------------------------|
| Acropak: <u>Coffee</u> | Acropak: <u>Coffee</u> | Acropak: <u>Coffee</u>          |
| Sampler: <u>CZ</u>     | Sampler: <u>CZ</u>     | Sampler: <u>CZ</u>              |
| Depth: <u>500</u>      | Depth: <u>350</u>      | Depth: <u>300</u>               |
| Caro Pos: <u>7</u>     | Caro Pos: <u>9</u>     | Caro Pos: <u>11</u>             |
| Btl #: <u>29</u>       | Btl #: <u>31</u>       | Btl #: <u>33</u>                |
| Notes:                 | Notes:                 | Notes:<br>* took Barbeau sample |

**GEOTRACES 10181 GEOTRACES 10182 GEOTRACES 10184**

|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| Acropak: <u>Chocolate</u> | Acropak: <u>Chocolate</u> | Acropak: <u>Chocolate</u> |
| Sampler: <u>CP</u>        | Sampler: <u>CP</u>        | Sampler: <u>CP</u>        |
| Depth: <u>225</u>         | Depth: <u>150</u>         | Depth: <u>130</u>         |
| Caro Pos: <u>13</u>       | Caro Pos: <u>15</u>       | Caro Pos: <u>17</u>       |
| Btl #: <u>37</u>          | Btl #: <u>1</u>           | Btl #: <u>3</u>           |
| Notes:                    | Notes:                    | Notes:                    |

**GEOTRACES 10186 GEOTRACES 10188 GEOTRACES 10190**

|                           |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
| Acropak: <u>Chocolate</u> | Acropak: <u>Chocolate</u>       | Acropak: <u>Chocolate</u>       |
| Sampler: <u>CP</u>        | Sampler: <u>CP</u>              | Sampler: <u>CP</u>              |
| Depth: <u>75</u>          | Depth: <u>45</u>                | Depth: <u>30</u>                |
| Caro Pos: <u>19</u>       | Caro Pos: <u>21</u>             | Caro Pos: <u>23</u>             |
| Btl #: <u>5</u>           | Btl #: <u>7</u>                 | Btl #: <u>11</u>                |
| Notes:                    | Notes:<br>* took Barbeau sample | Notes:<br>* took Barbeau sample |

# Geotraces R/V Thompson Membrane Sample Log

Sample Date:

UTC Start: 1742

Station/Cast: Station 31 Cast 5

GT Event #: 4442

12/14/13

UTC End: 1907

Shallow/Mid/Deep  
Follish (circle one)

Nuts Rack: Black

Samplers: LR1RS1SR

Notes:

Salts Rack: A

| Geotraces #:     | GEOTRACES 10169 | GEOTRACES 10171 | GEOTRACES 10173 | GEOTRACES 10175 | GEOTRACES 10177 | GEOTRACES 10179 | GEOTRACES 10180 | GEOTRACES 10183 | GEOTRACES 10185 | GEOTRACES 10187 | GEOTRACES 10189 | GEOTRACES 10191 |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| GoFlo Number:    | 2               | 4               | 6               | 8               | 10              | 16              | 18              | 24              | 26              | 28              | 30              | 36              |
| Depth (m):       | 1500            | 1000            | 750             | 500             | 350             | 300             | 225             | 150             | 130             | 75              | 45              | 30              |
| Filter Holder #: | 40              | 39              | 38              | 37              | 36              | 35              | 34              | 33              | 32              | 31              | 30              | 29              |
| Filter diameter: | 25mm            |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Position #:      | 2               | 4               | 6               | 8               | 10              | 12              | 14              | 16              | 18              | 20              | 22              | 24              |

## Filtered Volume (L)

|             |       |       |       |       |       |       |       |       |       |      |      |       |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| Waste:      | 8.36  | 7.86  | 8.05  | 8.28  | 8.10  | 8.09  | 8.12  | 8.24  | 7.97  | 3.71 | 2.48 | 24.08 |
| Drawn:      | 2.25  | 2.25  | 2.25  | 2.25  | 2.25  | 2.25  | 2.25  | 2.25  | 2.25  | 2.25 | 2.25 | 2.25  |
| Total:      | 10.61 | 10.11 | 10.30 | 10.63 | 10.35 | 10.34 | 10.37 | 10.49 | 10.22 | 5.96 | 4.73 | 6.33  |
| Start Time: | 1952  | 1951  | 1950  | 1949  | 1948  | 1947  | 1946  | 1945  | 1944  | 1943 | 1942 | 1941  |
| End Time:   | 2127  | 2120  | 2125  | 2125  | 2126  | 2120  | 2131  | 2135  | 2130  | 2145 | 2145 | 2145  |

- Supor Membrane 0.45 µm

Notes: \*\*All filtered volume is 3.815L

All filters from Fish Batch (3)

→ 10191  
10189

Sampling Order:

Redox:

Pressurize

Cutter (S) — 2 x 60mL (Syr.)

Cutter (I) — 2 x 60mL (Syr.)

Moffett(Fe) — 2 x 60mL (Syr.)

Unfiltered:

ODF Nuts — 1 x 30mL

ODF Salts — 1 x 250mL

Shake

Twining-Surface — 1 x 2000mL

Twining-DCM — 1 x 250mL

Part. Membrane:

Hammerschmidt (Hg) — 1 x 2000mL

Lamborg (T. Hg) — 1 x 250mL

Cutter (Nnuts) — 1 x 125mL

Cutter (As/Sb) — 1 x 250mL

Cutter (Se) — 1 x 1190mL