

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |     | Sample Lists: Core Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|-----|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Sal |                            |  |  |  |  |  |  |  |          |
| 1        |          | 1        | Bot 5             | 393                  |                                    | x     | xx  |                            |  |  |  |  |  |  |  | EVENT #1 |
| 2        |          | 2        | 0                 |                      | xx                                 | xx    | x   |                            |  |  |  |  |  |  |  | EVENT #2 |
| 3        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |

Profile type: Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 405 m

Transmisso Cleaned: Y Y N

CTD

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2002 | 1202  |
| Bottom | 2009 |       |
| End    | 2020 |       |

Positional Information

Start

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 15 042  | N |
| Lon: | 123 ° 45 391 | W |

Bottom

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 15 053  | N |
| Lon: | 123 ° 45 505 | W |

End

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 15 034  | N |
| Lon: | 123 ° 45 505 | W |

Extra comments:

Bottom bottle 2m above CTD

| Niskin # | Firing # | Sample # | Rosette Operation |                                                        | Sampler's Initials / Samples Taken |      |       |  | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------------------------------------------|------------------------------------|------|-------|--|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure |                                    | HPLC | Nut-F |  |                            |  |  |  |  |  |  |  |          |
| 1        |          | 3        | 0                 |                                                        |                                    | xx   | x     |  |                            |  |  |  |  |  |  |  | EVENT #5 |
| 2        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                                                        |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & BOT

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 323 m

Transmisso Cleaned: ☒ Y ☐ N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2324 | 1524  |
| Bottom | 30   |       |
| End    | 35   |       |

CTD

Positional Information

Start

Lat: 49 ° 26 640 N

Lon: 124 ° 20 247 W

Bottom

Lat: 49 ° 26 645 N

Lon: 124 ° 20 257 W

End

Lat: 49 ° 26 651 N

Lon: 124 ° 20 267 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |             | Sampler's Initials / Samples Taken |      |       |  | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments  |
|----------|----------|----------|-------------------|-------------|------------------------------------|------|-------|--|----------------------------|--|--|--|--|--|--|--|-----------|
|          |          |          | Target Pressure   | Confirmed ✓ | Pressure                           | HPLC | Nut-F |  |                            |  |  |  |  |  |  |  |           |
| 1        |          | 4        | 0                 |             |                                    | xx   | x     |  |                            |  |  |  |  |  |  |  | EVENT # 7 |
| 2        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 3        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 4        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 5        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 6        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 7        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 8        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 9        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 10       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 11       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 12       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 13       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 14       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 15       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 16       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 17       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 18       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 19       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 20       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 21       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 22       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 23       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |
| 24       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |           |

Profile type: CTD & BOT  
ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 193 m

Transmisso Cleaned: (Y) / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0021 | 1021  |
| Bottom | 0024 |       |
| End    | 0027 |       |

Positional Information

Start

Lat: 49 ° 30 570 N  
Lon: 124 ° 27 773 W

Bottom

Lat: 49 ° 30 570 N  
Lon: 124 ° 27 777 W

End

Lat: 49 ° 30 570 N  
Lon: 124 ° 27 776 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |            | Sampler's Initials / Samples Taken |       |         | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |  |  |            |
|----------|----------|----------|-------------------|------------|------------------------------------|-------|---------|----------------------------|--|--|--|--|--|--|--|----------|--|--|------------|
|          |          |          | Target            | Confirmed  | HPLC                               | Nut-F | Lugol's |                            |  |  |  |  |  |  |  |          |  |  |            |
|          |          |          | Pressure          | √ Pressure |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 1        |          | 5        | 0                 |            |                                    | xx    | xx      | x                          |  |  |  |  |  |  |  |          |  |  | EVENT # 11 |
| 2        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 3        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 4        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 5        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 6        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 7        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 8        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 9        |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 10       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 11       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 12       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 13       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 14       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 15       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 16       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 17       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 18       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 19       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 20       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 21       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 22       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 23       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |
| 24       |          |          |                   |            |                                    |       |         |                            |  |  |  |  |  |  |  |          |  |  |            |

Version: 13NOV2020

Transmittance at 410 nm: 14.6

Profile type: CTD & Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 60 m

Transmisso Cleaned: Y N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1724 | 0924  |
| Bottom | 1725 |       |
| End    | 1726 |       |

Positional Information

Start

Lat: 49 ° 28 979 N

Lon: 124 ° 45 997 W

Bottom

Lat: 49 ° 28 978 N

Lon: 124 ° 45 996 W

End

Lat: 49 ° 28 975 N

Lon: 124 ° 45 995 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |                                                        | Sampler's Initials / Samples Taken |      | Sample Lists: Core_Samples |  |  |  |  |  |  |  |  |  | Comments  |
|----------|----------|----------|-------------------|--------------------------------------------------------|------------------------------------|------|----------------------------|--|--|--|--|--|--|--|--|--|-----------|
|          |          |          | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure |                                    | HPLC | Nut-F                      |  |  |  |  |  |  |  |  |  |           |
| 1        |          | 6        | 0                 |                                                        |                                    | xx   | x                          |  |  |  |  |  |  |  |  |  | Event #14 |
| 2        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 3        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 4        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 5        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 6        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 7        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 8        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 9        |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 10       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 11       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 12       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 13       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 14       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 15       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 16       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 17       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 18       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 19       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 20       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 21       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 22       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 23       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |
| 24       |          |          |                   |                                                        |                                    |      |                            |  |  |  |  |  |  |  |  |  |           |

Profile type: CTD & BOP

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 169 m

Transmisso Cleaned: ☒ Y / ☐ N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1859 | 1059  |
| Bottom | 1902 |       |
| End    | 1904 |       |

Positional Information

Start

Lat: 49 ° 35 489 N

Lon: 124 ° 38 361 W

Bottom

Lat: 49 ° 35 477 N

Lon: 124 ° 38 287 W

End

Lat: 49 ° 35 469 N

Lon: 124 ° 38 280 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |         |     | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments                 |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|---------|-----|----------------------------|--|--|--|--|--|--|--|--------------------------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Lugol's | Sal |                            |  |  |  |  |  |  |  |                          |
| 1        |          | 7        | Bot-5 10          |                      |                                    | xx    |         | xx  |                            |  |  |  |  |  |  |  | EVENT # 17<br>EVENT # 18 |
| 2        |          | 8        | 0                 |                      |                                    | xx    | x       | x   | x                          |  |  |  |  |  |  |  |                          |
| 3        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 4        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 5        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 6        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 7        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 8        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 9        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 10       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 11       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 12       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 13       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 14       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 15       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 16       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 17       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 18       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 19       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 20       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 21       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 22       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 23       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |
| 24       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |                          |

Profile type: CTD & Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 357 m

Transmisso Cleaned: Y N

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 20 46 | 12 46 |
| Bottom | 20 51 |       |
| End    | 20 59 |       |

Positional Information

Start

Lat: 49 ° 43 603 N

Lon: 124 ° 40 777 W

Bottom

Lat: 49 ° 43 586 N

Lon: 124 ° 40 789 W

End

Lat: 49 ° 43 575 N

Lon: 124 ° 40 793 W

Extra comments:

NISKIN ~ 2m above CTD

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |         |     | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|---------|-----|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Lugol's | Sal |                            |  |  |  |  |  |  |  |          |
| 1        |          | 9        | Bot-5/10          | 343                  |                                    | X     |         | XX  |                            |  |  |  |  |  |  |  | EVENT 21 |
| 2        |          | 10       | 0                 |                      | XX                                 | XX    | X       |     |                            |  |  |  |  |  |  |  | EVENT 22 |
| 3        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & BT

ROS TRM X-Niskin other?

Watchkeeper(s): MR

Bottom Depth: 355 m

Transmisso Cleaned: Y N

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 2354  | 1534  |
| Bottom | 00:00 |       |
| End    | 0008  |       |

Positional Information

Start

Lat: 49 ° 40 201 N

Lon: 124 ° 16 255 W

Bottom

Lat: 49 ° 40 185 N

Lon: 124 ° 16 220 W

End

Lat: 49 ° 40 136 N

Lon: 124 ° 16 153 W

Extra comments:

Bot Niskin ~2m above CTD

| Niskin # | Firing # | Sample # | Rosette Operation |             | Sampler's Initials / Samples Taken |      |       | Sample Lists: Core_Samples |  |  |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|-------------|------------------------------------|------|-------|----------------------------|--|--|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ | Pressure                           | HPLC | Nut-F | Lugol's                    |  |  |  |  |  |  |  |  |  |          |
| 1        |          | 11       | 0                 |             |                                    | xx   | xx    | x                          |  |  |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |             |                                    |      |       |                            |  |  |  |  |  |  |  |  |  |          |

Profile type: CTD + Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MS

Bottom Depth: 278 m

Transmisso Cleaned: (Y) / N

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 17:48 | 09:48 |
| Bottom | :52   |       |
| End    | :56   |       |

Positional Information

Lat: 49 ° 24 125 N

Lon: 124 ° 9 294 W

Lat: 49 ° 24 137 N

Lon: 124 ° 9 251 W

Lat: 49 ° 24 141 N

Lon: 124 ° 9 199 W

Extra comments:

Water Properties Group

Program  
STN List: All Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2021-032 Station: 27 Event #: 34 & 35 (Bot) Ship: Neocaligus UTC Date (dd/mmm/yyyy): 10 MAR 2021

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |         |     | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|---------|-----|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Lugol's | Sal |                            |  |  |  |  |  |  |  |          |
| 1        |          | 12       | Bot-5 10          | 335                  |                                    | X     |         | XX  |                            |  |  |  |  |  |  |  | EVENT 34 |
| 2        |          | 13       | 0                 |                      | XX                                 | X     | X       |     |                            |  |  |  |  |  |  |  | EVENT 35 |
| 3        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                      |                                    |       |         |     |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & Bot  
ROS TRM X-Niskin other?  
Watchkeeper(s): MB

Bottom Depth: 347 m  
Transmisso Cleaned: (Y) / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2104 | 1304  |
| Bottom | 2110 |       |
| End    | 2116 |       |

| Positional Information |      |              |   |
|------------------------|------|--------------|---|
| Start                  | Lat: | 49 ° 19 113  | N |
|                        | Lon: | 123 ° 48 027 | W |
| Bottom                 | Lat: | 49 ° 19 135  | N |
|                        | Lon: | 123 ° 48 008 | W |
| End                    | Lat: | 49 ° 19 140  | N |
|                        | Lon: | 123 ° 48 001 | W |

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |             | Sampler's Initials / Samples Taken |      |       |  | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|-------------|------------------------------------|------|-------|--|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ | Pressure                           | HPLC | Nut-F |  |                            |  |  |  |  |  |  |  |          |
| 1        |          | 14       | 0                 |             |                                    | xx   | xx    |  |                            |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |             |                                    |      |       |  |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & BT

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 316 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2315 | 1515  |
| Bottom | 2321 |       |
| End    | 2327 |       |

Positional Information

Start

Lat: 49 ° 9 806 N

Lon: 123 ° 33 029 W

Bottom

Lat: 49 ° 9 798 N

Lon: 123 ° 33 014 W

End

Lat: 49 ° 9 773 N

Lon: 123 ° 32 980 W

Extra comments:

Cruise ID: 2021-032

Station: 42

Event #: 45 46 (Bot)

Ship: Neocaligus

UTC Date (dd/mm/yyyy): 11 Mar 2021

| Niskin # | Firing # | Sample # | Rosette Operation |                |          | Sampler's Initials / Samples Taken |       |         |  |  | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------|----------|------------------------------------|-------|---------|--|--|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed<br>√ | Pressure | HPLC                               | Nut-F | Lugol's |  |  |                            |  |  |  |  |  |  |  |          |
|          |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 1        |          | 15       | 0                 |                |          | xx                                 | x     | x       |  |  |                            |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                |          |                                    |       |         |  |  |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MJB

Bottom Depth: 322 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1704 | 0904  |
| Bottom | 1709 |       |
| End    | 1714 |       |

Positional Information

Start

Lat: 49 ° 1 78.5 N

Lon: 123 ° 26 250 W

Bottom

Lat: 49 ° 1 75.5 N

Lon: 123 ° 26 217 W

End

Lat: 49 ° 1 71.8 N

Lon: 123 ° 26 186 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |     | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|-----|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Sal |                            |  |  |  |  |  |  |  |          |
| 1        |          | 16       | Bot-5             |                      |                                    | xx    | x   |                            |  |  |  |  |  |  |  | EVENT 48 |
| 2        |          | 17       | 0                 |                      | xx                                 | x     | xx  |                            |  |  |  |  |  |  |  | EVENT 49 |
| 3        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                      |                                    |       |     |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & Bot

ROS TRM X-Niskin other?

Watchkeeper(s): m3

Bottom Depth: 180 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1905 | 1105  |
| Bottom | 1907 |       |
| End    | 1909 |       |

Positional Information

Lat: 48 ° 51 382 N

Lon: 123 ° 10 847 W

Lat: 48 ° 51 371 N

Lon: 123 ° 10 853 W

Lat: 48 ° 51 369 N

Lon: 123 ° 10 855 W

Extra comments:

Water Properties Group

Program  
STN List: All\_Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2021-032 Station: 56 Event #: 51 & 52 (Bot) Ship: Neocaligus UTC Date (dd mmm/yyyy): 11 MAR 2021

| Niskin # | Firing # | Sample # | Rosette Operation |           |          | Sampler's Initials / Samples Taken |       |  |  |  | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|-----------|----------|------------------------------------|-------|--|--|--|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target            | Confirmed |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
|          |          |          | Pressure          | √         | Pressure | HPLC                               | Nut-F |  |  |  |                            |  |  |  |  |  |  |  |          |
| 1        |          | 18       | 0                 |           |          | xx                                 | x     |  |  |  |                            |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |           |          |                                    |       |  |  |  |                            |  |  |  |  |  |  |  |          |

Version: 13NOV2020

Transmissometers to be cleaned before next use

Profile type: CTD & Bot  
ROS TRM X-Niskin other?  
Watchkeeper(s): MB

Bottom Depth: 214 m  
Transmisso Cleaned: Y / N  
FL

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 2022  | 12 22 |
| Bottom | 20 25 |       |
| End    | 20 28 |       |

Positional Information  
Start  
Lat: 48 ° 46 418 N  
Lon: 123 ° 1 559 W

Bottom  
Lat: 48 ° 46 466 N  
Lon: 123 ° 1 455 W

End  
Lat: 48 ° 46 504 N  
Lon: 123 ° 1 401 W

Extra comments:

Water Properties Group

Program  
STN List: All\_Stns

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2021-032

Station:

59

Event #:

53 954(BOT)

Ship:

Neocaligus

UTC Date (dd mmm yyyy): 11 MAR 2021

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       | Sample Lists: Core_Samples |  |  |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|----------------------------|--|--|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | HPLC                               | Nut-F |                            |  |  |  |  |  |  |  |  |  |          |
| 1        |          | 19       | 0                 |                    | xx                                 | x     |                            |  |  |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                    |                                    |       |                            |  |  |  |  |  |  |  |  |  |          |

Profile type: CTD & Bot  
ROS TRM X-Niskin other?  
Watchkeeper(s): MB

Bottom Depth: 238 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2214 | 1414  |
| Bottom | 2218 |       |
| End    | 2221 |       |

Positional Information

|      |              |   |
|------|--------------|---|
| Lat: | 48 ° 36 927  | N |
| Lon: | 123 ° 14 989 | W |

Bottom

|      |              |   |
|------|--------------|---|
| Lat: | 48 ° 36 972  | N |
| Lon: | 123 ° 15 006 | W |

End

|      |              |   |
|------|--------------|---|
| Lat: | 48 ° 37 001  | N |
| Lon: | 123 ° 15 016 | W |

Extra comments:

Cruise ID: 2021-032

Station: SC-04

Event #: 58 59(Bot)

Ship: Neocaligus

UTC Date (dd|mmm|yyyy): 12 MAR 2021

| Niskin # | Firing # | Sample # | Rosette Operation |                      | Sampler's Initials / Samples Taken |       |         | Sample Lists: Core_Samples |  |  |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|----------------------|------------------------------------|-------|---------|----------------------------|--|--|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed ✓ Pressure | HPLC                               | Nut-F | Lugol's |                            |  |  |  |  |  |  |  |          |
| 1        |          | 20       | 0                 |                      | xx                                 | xx    | x       |                            |  |  |  |  |  |  |  |          |
| 2        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 3        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 4        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 5        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 6        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 7        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 8        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 9        |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 10       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 11       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 12       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 13       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 14       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 15       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 16       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 17       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 18       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 19       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 20       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 21       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 22       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 23       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |
| 24       |          |          |                   |                      |                                    |       |         |                            |  |  |  |  |  |  |  |          |

Profile type: CTD & Bot

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 86 m

Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0021 | 1621  |
| Bottom | 0022 |       |
| End    | 0024 |       |

Positional Information

Start

Lat: 48 ° 43 528 N

Lon: 123 ° 25 864 W

Bottom

Lat: 48 ° 43 534 N

Lon: 123 ° 25 854 W

End

Lat: 48 ° 43 525 N

Lon: 123 ° 25 851 W

Extra comments: