

Water Properties Group

Program STN List:

SoG

Sampling Log

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

Cruise ID:

2020-008

Station:

59

Event #:

3

Ship:

JP Tully

UTC Date (dd/mm/yyyy):

18 / Apr / 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |    |       |     |       |     |    |      |    |    | Sample Lists: Core Samples |        |    |     | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|----|-------|-----|-------|-----|----|------|----|----|----------------------------|--------|----|-----|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | KS/MB                              | MB | Nut-F | SAL | KS/MB | CHL | KS | HPLC | KS | DA | KS                         | Lugols | MB | DIC | REE      |

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

|    |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
|----|----|----|-------|-------|----|----|--|--|--|----|---|----|---|--|--|--|----|----|--|--|
| 1  | 1  | 1  | Bot-5 | ✓ 228 | X  | X  |  |  |  |    |   |    |   |  |  |  | X  | X  |  |  |
| 2  | 2  | 2  | 200   | ✓ 200 | X  | X  |  |  |  |    |   |    |   |  |  |  | XX | X  |  |  |
| 3  | 3  | 3  | 150   | ✓ 150 | X  | X  |  |  |  |    |   |    |   |  |  |  | X  | X  |  |  |
| 4  | 4  | 4  | 100   | ✓ 100 | XX | X  |  |  |  |    |   |    |   |  |  |  | X  | XX |  |  |
| 5  | 5  | 5  | 80    | ✓ 80  | X  | X  |  |  |  |    |   |    |   |  |  |  | X  | X  |  |  |
| 6  | 6  | 6  | 60    | ✓ 60  | X  | X  |  |  |  |    |   |    |   |  |  |  | X  | X  |  |  |
| 7  | 7  | 7  | 50    | ✓ 50  | X  | X  |  |  |  |    | X |    |   |  |  |  | X  | X  |  |  |
| 8  | 8  | 8  | 40    | ✓ 40  | X  | XX |  |  |  | X  |   |    |   |  |  |  | X  | X  |  |  |
| 9  | 9  | 9  | 30    | ✓ 30  | X  | X  |  |  |  | X  |   |    |   |  |  |  | XX | X  |  |  |
| 10 | 10 | 10 | 20    | ✓ 20  | XX | X  |  |  |  | X  |   |    |   |  |  |  | X  | XX |  |  |
| 11 | 11 | 11 | 10    | ✓ 10  | X  | X  |  |  |  | XX |   |    |   |  |  |  | X  | X  |  |  |
| 12 | 12 | 12 | 5     | ✓ 5   | X  | X  |  |  |  | X  |   |    |   |  |  |  | X  | X  |  |  |
| 13 | 13 | 13 | 0     | ✓ 1.8 | X  | X  |  |  |  | X  |   | XX | X |  |  |  | X  | X  |  |  |
| 14 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 15 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 16 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 17 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 18 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 19 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 20 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 21 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 22 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 23 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |
| 24 |    |    |       |       |    |    |  |  |  |    |   |    |   |  |  |  |    |    |  |  |

FI: 5.6

Bottom Depth: 233 m  
Transmisso Cleaned: Y Y N

Time UTC Local  
Start 0525 1025  
Bottom 0529  
End 0545

Positional Information  
Lat: 48 ° 36 876 N  
Lon: 123 ° 14 810 W

Bottom  
Lat: 48 ° 36 880 N  
Lon: 123 ° 14 840 W

End  
Lat: 48 ° 36 920 N  
Lon: 123 ° 14 760 W

Extra comments:

Water Properties Group

Program  
STN List:

SoG

Sampling Log

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

Cruise ID: 2020-008

Station: JF2

Event #: 5

Ship: JP Tully

UTC Date (dd/mm/yyyy): 13 | 08 | 20

Profile type:  
ROS TRM X-Niskin other?

Watchkeeper(s): Mg

Bottom Depth: 186 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1107 0407

Bottom 1112

End 1125

Positional Information

Lat: 48 ° 18.008 N

Lon: 124 ° 00.170 W

Bottom

Lat: 48 ° 18.020 N

Lon: 124 ° 00.200 W

End

Lat: 48 ° 18.090 N

Lon: 124 ° 00.440 W

Extra comments:

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |    |      |     |     |      |    |        |    |     | Sample Lists: Core Samples |  | Comments |                        |
|----------|----------|----------|-------------------|--------------------|------------------------------------|----|------|-----|-----|------|----|--------|----|-----|----------------------------|--|----------|------------------------|
|          |          |          | Target Pressure   | Confirmed Pressure | Mg                                 | Ni | Ni-F | SAL | CHL | HPIC | DA | Lugols | DC | DIC | REE                        |  |          |                        |
| 1        |          | 14       | Bot-5             | ✓ 177              | x                                  | x  |      |     |     |      |    |        | x  | xx  |                            |  |          | SURFACE CURRENT        |
| 2        |          | 15       | 150               | ✓ 151              | x                                  | xx |      |     |     |      |    |        | x  | x   |                            |  |          | 60PS                   |
| 3        |          | 16       | 125               | ✓ 126              | x                                  | x  |      |     |     |      |    |        |    | x   |                            |  |          | SKIPPED BOTTOM NOT ECG |
| 4        |          | 17       | 100               | ✓ 100              | xx                                 | x  |      |     |     |      |    |        | x  | x   |                            |  |          |                        |
| 5        |          | 18       | 80                | ✓ 80               | x                                  | x  |      |     |     |      |    |        | xx | x   |                            |  |          |                        |
| 6        |          | 19       | 60                | ✓ 60               | x                                  | x  |      |     |     |      |    |        | x  | x   |                            |  |          |                        |
| 7        |          | 20       | 50                | ✓ 50               | x                                  | x  |      |     | x   |      |    |        | x  | x   |                            |  |          |                        |
| 8        |          | 21       | 40                | ✓ 40               | x                                  | x  |      |     | x   |      |    |        |    | x   |                            |  |          |                        |
| 9        |          | 22       | 30                | ✓ 30               | x                                  | x  |      |     | xx  |      |    |        | x  | x   |                            |  |          |                        |
| 10       |          | 23       | 20                | ✓ 20               | x                                  | x  |      |     | x   |      |    |        | x  | x   |                            |  |          |                        |
| 11       |          | 24       | 10                | ✓ 10               | x                                  | x  |      |     | x   |      |    |        | xx | x   |                            |  |          |                        |
| 12       |          | 25       | 5                 | ✓ 52               | x                                  | x  |      |     | x   |      |    |        | x  | xx  |                            |  |          |                        |
| 13       |          | 26       | 0                 | ✓ 1.8              | xx                                 | x  |      |     | x   | xx   | x  | x      | x  | x   |                            |  |          |                        |
| 14       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 15       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 16       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 17       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 18       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 19       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 20       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 21       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 22       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 23       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |
| 24       |          |          |                   |                    |                                    |    |      |     |     |      |    |        |    |     |                            |  |          |                        |

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P1

Event #:

9

Ship:

JP Tully

UTC Date (dd mmm yyyy): 13 08 20

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |         |       |     |     |      | Sample Lists: |         |     |              | Comments               |
|----------|----------|----------|-------------------|--------------------|------------------------------------|---------|-------|-----|-----|------|---------------|---------|-----|--------------|------------------------|
|          |          |          | Target Pressure   | Confirmed Pressure | MCg                                | MCg OXY | Nut-F | SAL | CHL | HPLC | DA            | Lugol's | DIC | Core Samples |                        |
| 1        |          | 27       |                   | ✓                  | 126                                | x       | x     |     |     |      |               |         | xx  |              | Bottom Depth in Header |
| 2        |          | 28       |                   | ✓                  | 30                                 | xx      | x     |     |     |      |               |         | x   |              |                        |
| 3        |          | 29       |                   | ✓                  | 5                                  | x       | x     |     | x   | xx   |               |         | x   |              |                        |
| 4        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 5        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 6        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 7        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 8        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 9        |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 10       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 11       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 12       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 13       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 14       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 15       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 16       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 17       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 18       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 19       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 20       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 21       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 22       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 23       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |
| 24       |          |          |                   |                    |                                    |         |       |     |     |      |               |         |     |              |                        |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ROS TRM X-Niskin other?  
Watchkeeper(s): MCg

Bottom Depth: 135 m  
Transmisso Cleaned: (Y) N

| Time   |  | UTC  | Local |
|--------|--|------|-------|
| Start  |  | 1816 |       |
| Bottom |  | 1819 |       |
| End    |  | 1825 |       |

Positional Information

Start  
Lat: 48 ° 34.29 N  
Lon: 125 ° 29.87 W

Bottom  
Lat: 48 ° 34.29 N  
Lon: 125 ° 29.86 W

End  
Lat: 48 ° 34.32 N  
Lon: 125 ° 29.81 W

Extra comments:

Line\_P

## Sampling Log

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

Cruise ID: 2020-008**Station:**

P2

Event #: 10

Ship: JP Tully

UTC Date (dd mmm yyyy): 13 Jul 2020

**Profile type:**

| ROS | TRM | X-Niskin | other? |
|-----|-----|----------|--------|
|     |     |          |        |

**Watchkeeper(s):** MB

Watchkeeper(s): M/S

[illegible]

|                      |     |   |
|----------------------|-----|---|
| Bottom Depth:        | 116 | m |
| Transmissio Cleaned: | Y   | N |

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2132 | 1432  |
| Bottom | 2138 |       |
| End    | 2145 |       |

### **Positional Information**

|      |               |
|------|---------------|
| Lat: | 41° 35' 9" N  |
| Lon: | 125° 59' 9" W |

Bottom

|      |                |
|------|----------------|
| Lat: | 48 ° 35 980 N  |
| Lon: | 125 ° 59 880 W |

|      |                 |
|------|-----------------|
| Lat: | 48° 35' 26.00 N |
| Lon: | 125° 59' 8.70 W |

**Extra comments:**

DMS

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P2

Event #:

12

Ship:

JP Tully

UTC Date (dd mmm yyyy): 13 Aug 2020

Rosette Operation

Target Pressure  
Confirmed Pressure

Sampler's Initials / Samples Taken

Y5 OXY Y5 SAL Y5 Nut-F Nut-C M6 DIC M6 TOC

Sample Lists: Core Samples

Comments

Profile type:

(ROS) TRM X-Niskin other?  
Watchkeeper(s): M2

Bottom Depth: 116 m

Transmisso Cleaned: (Y) / N

| Time   |      | UTC  | Local |
|--------|------|------|-------|
| Start  | 2227 | 1527 |       |
| Bottom | 2229 |      |       |
| End    | 2238 |      |       |

Positional Information

| Start            |   |
|------------------|---|
| Lat: 48 ° 35.98  | N |
| Lon: 126 ° 00.00 | W |
| Bottom           |   |
| Lat: 48 ° 35.99  | N |
| Lon: 126 ° 00.00 | W |
| End              |   |
| Lat: 48 ° 35.97  | N |
| Lon: 125 ° 59.98 | W |

Extra comments:

Deep



Water Properties Group

Program

STN List:

Sampling Log

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

Cruise ID:

2020-008

Station:

P3

Event #:

13

Ship:

JP Tully

UTC Date (dd mmm yyyy): 14 | Nov | 2020

Rosette Operation

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Niskin #

Firing #

Sample #

Target Pressure

Confirmed

Pressure

SAL

Nut-F

CHL

HPLC

Profile type: (ROS TRM X-Niskin other?)  
Watchkeeper(s): MR

Bottom Depth: 817 m

Transmisso Cleaned: Y N

Time UTC Local

Start 0020 1720

Bottom 0033 1733

End 0046 1746

Positional Information

Lat: 48 ° 37 430 N

Lon: 126 ° 19 920 W

Bottom Lat: 48 ° 37.402 N

Lon: 126 ° 19.913 W

End Lat: 48 ° 37.390 N

Lon: 126 ° 19.990 W

Extra comments:

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P4

Event #:

14

Ship:

JP Tully

UTC Date (dd mmm yyyy):

14 Apr 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |         |        |         |          | Sample Lists: All Samples |         |           |         | Comments |         |  |  |          |  |
|----------|----------|----------|-------------------|--------------------|------------------------------------|---------|--------|---------|----------|---------------------------|---------|-----------|---------|----------|---------|--|--|----------|--|
|          |          |          | Target Pressure   | Confirmed Pressure | M8 DMS                             | M8A DMS | M8 DMS | M8A DMS | M8 Nut-F | M8A CHL                   | M8 HPLC | M8 Lugols | M8 Glut |          | M8 Form |  |  |          |  |
| 1        | 1        | 50       | 400               | ✓ 400              | x                                  | x       | x      | x       |          |                           |         |           |         |          |         |  |  |          |  |
| 2        | 2        | 51       | 200               | ✓ 200              | x                                  | x       | x      | x       |          |                           |         |           |         |          |         |  |  |          |  |
| 3        | 3        | 52       | 150               | ✓ 150              | x                                  | x       | x      | x       |          |                           |         |           |         |          |         |  |  |          |  |
| 4        | 4        | 53       | 100               | ✓ 100              | x                                  |         |        | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 5        | 5        | 54       | 75                | ✓ 75               | x                                  |         |        | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 6        | 6        | 55       | 60                | ✓ 60               |                                    |         |        | xx      | x        | xx                        |         |           |         |          |         |  |  | Fluo <2  |  |
| 7        | 7        | 56       | 50                | ✓ 50               | x                                  |         |        | x       | xx       | xx                        |         |           |         |          |         |  |  | Fluo <2  |  |
| 8        | 8        | 57       | 40                | ✓ 40               | x                                  |         |        | x       | x        | xx                        |         |           |         |          |         |  |  | Fluo <2  |  |
| 9        | 9        | 58       | 30                | ✓ 30               | x                                  | x       | x      | x       | x        | xx                        |         |           |         |          |         |  |  | Fluo <2  |  |
| 10       | 10       | 59       | 25                | ✓ 25               | x                                  |         |        | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 11       | 11       | 60       | 20                | ✓ 20               | xx                                 | xx      | xx     | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 12       | 12       | 61       | 15                | ✓ 15               | x                                  |         |        | x       | x        | xx                        |         |           |         |          |         |  |  | Fluo 2-5 |  |
| 13       | 13       | 62       | 10                | ✓ 10               | x                                  |         |        | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 14       | 14       | 63       | 5                 | ✓ 5                | x                                  | x       | x      | x       |          |                           |         |           |         |          |         |  |  |          |  |
| 15       | 15       | 64       | 5                 | ✓ 5                |                                    |         |        | x       | x        | xx                        |         |           |         |          |         |  |  | Fluo 2-5 |  |
| 16       | 16       | 65       | 0                 | ✓ 1.4              | x                                  | x       | x      | x       | x        |                           |         |           |         |          |         |  |  |          |  |
| 17       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 18       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 19       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 20       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 21       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 22       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 23       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |
| 24       |          |          |                   |                    |                                    |         |        |         |          |                           |         |           |         |          |         |  |  |          |  |

Profile type: RO\$ TRM X-Niskin other?  
Watchkeeper(s): M8

Bottom Depth: 1311 m  
Transmisso Cleaned: (Y) Y N

Time UTC Local  
Start 0225 1929  
Bottom 0237  
End 0255

Positional Information  
Lat: 48 ° 39 09.0 N  
Lon: 126 ° 40 09.0 W

Bottom  
Lat: 48 ° 39 04.0 N  
Lon: 126 ° 39 09.2 W

End  
Lat: 48 ° 39 05.0 N  
Lon: 126 ° 39 07.0 W

Extra comments:  
DMS

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P4

Event #:

15

Ship:

JP Tully

UTC Date (dd mmm yyyy): 14 | Aug | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |     |       |       |     |     | Sample Lists: |         |  |  | Comments |  |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-----|-------|-------|-----|-----|---------------|---------|--|--|----------|--|
|          |          |          | Target Pressure   | Confirmed Pressure | OXY                                | SAL | Nut-F | Nut-C | DIC | TOC | Core          | Samples |  |  |          |  |
| 1        | 1        | 66       | Bot-10            | ✓ 1310             | x                                  |     | x     | x     | x   | x   |               |         |  |  |          |  |
| 2        | 2        | 67       | 1250              | ✓ 1250             | xx                                 | x   | x     | x     | x   | x   |               |         |  |  |          |  |
| 3        | 3        | 68       | 1250              | ✓ 1250             | x                                  | x   | x     | x     | x   | x   |               |         |  |  |          |  |
| 4        | 4        | 69       | 1000              | ✓ 1000             | x                                  | xx  | x     | x     | x   | x   |               |         |  |  |          |  |
| 5        | 5        | 70       | 800               | ✓ 800              | x                                  | x   | xx    | xx    | x   | x   |               |         |  |  |          |  |
| 6        | 6        | 71       | 600               | ✓ 600              | x                                  |     | x     | x     | x   | x   |               |         |  |  |          |  |
| 7        | 7        | 72       | 400               | ✓ 400              | x                                  |     | x     | x     | xx  | x   |               |         |  |  |          |  |
| 8        | 8        | 73       | 300               | ✓ 300              | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 9        | 9        | 74       | 250               | ✓ 250              | xx                                 |     | x     |       | x   | x   |               |         |  |  |          |  |
| 10       | 10       | 75       | 200               | ✓ 200              | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 11       | 11       | 76       | 175               | ✓ 175              | x                                  |     | xx    |       | x   | x   |               |         |  |  |          |  |
| 12       | 12       | 77       | 150               | ✓ 150              | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 13       | 13       | 78       | 125               | ✓ 125              | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 14       | 14       | 79       | 100               | ✓ 100              | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 15       | 15       | 80       | 75                | ✓ 75               | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 16       | 16       | 81       | 50                | ✓ 50               | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 17       | 17       | 82       | 25                | ✓ 25               | xx                                 |     | x     |       | x   | xx  |               |         |  |  |          |  |
| 18       | 18       | 83       | 10                | ✓ 10               | x                                  |     | x     |       | x   | x   |               |         |  |  |          |  |
| 19       | 19       | 84       | 5                 | ✓ 5                | x                                  | x   | x     |       | x   | x   |               |         |  |  |          |  |
| 20       |          |          |                   |                    |                                    |     |       |       |     |     |               |         |  |  |          |  |
| 21       |          |          |                   |                    |                                    |     |       |       |     |     |               |         |  |  |          |  |
| 22       |          |          |                   |                    |                                    |     |       |       |     |     |               |         |  |  |          |  |
| 23       |          |          |                   |                    |                                    |     |       |       |     |     |               |         |  |  |          |  |
| 24       |          |          |                   |                    |                                    |     |       |       |     |     |               |         |  |  |          |  |

Profile type: (ROS) TRM X-Niskin other? Watchkeeper(s): ME/

Bottom Depth: 1319 m Transmisso Cleaned: (Y) /

| Time   |  | UTC  | Loca |
|--------|--|------|------|
| Start  |  | 0339 | 2039 |
| Bottom |  | 0403 |      |
| End    |  | 0443 |      |

Positional Information

Lat: 48 ° 39.07 Start Lon: 126 ° 39.89

Lat: 48 ° 39 100 Bottom Lon: 126 ° 39 870

Lat: 48 ° 39 100 End Lon: 126 ° 39 870

Extra comments: Deep



Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P5

Event #:

19

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 14/08/20

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

SAL Nu-F CHL HPLC

Sample Lists: Core Samples

Comments

Profile type:

ROS/TRM X-Niskin other?

Watchkeeper(s):

MG

Bottom Depth: 2088 m

Transmisso Cleaned: Y/N

Time UTC Local

Start 1151 0451

Bottom 1227

End 1300

Positional Information

Lat: 48 ° 41.44 N

Lon: 127 ° 10.02 W

Lat: 48 ° 41.45 N

Lon: 127 ° 10.06 W

Lat: 48 ° 41.46 N

Lon: 127 ° 10.07 W

Lat: 48 ° 41.46 N

Lon: 127 ° 10.07 W

Extra comments:

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

Cruise ID:

2020-008

Station:

P6

Event #:

20

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

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 14 68 20

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

SAL Nut-F CHL HPLC

Sample Lists: Core Samples

Comments

Profile type:

ROS/TRM X-Niskin other?

Watchkeeper(s): M6

Bottom Depth: 2537 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1523 0823

Bottom 1558

End 1631

Positional Information

Lat: 48 ° 44.50 N

Lon: 127 ° 39.97 W

Bottom Lat: 48 ° 44.53 N

Lon: 127 ° 39.92 W

End Lat: 48 ° 44.48 N

Lon: 127 ° 39.94 W

Extra comments:

Water Properties Group

Program

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P7

Event #:

22

Ship:

JP Tully

UTC Date (dd mmm yyyy): 14 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      | Sample Lists: Core Samples |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|----------------------------|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC |                            |  |  |  |          |
| 1        | 1        | 87       | 5                 | ✓ 5                |                                    | x     | 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       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Prefill type: ☒ ROSY ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: 2497 m

Transmisso Cleaned: ☒ Y / ☐ N

| Time   |  | UTC  | Local |
|--------|--|------|-------|
| Start  |  | 1916 | 1216  |
| Bottom |  | 1947 |       |
| End    |  | 1918 |       |

Positional Information

Start

Lat: 48 ° 46 56.7 N

Lon: 128 ° 9 924 W

Bottom

Lat: 48 ° 46 56.7 N

Lon: 128 ° 9 924 W

End

Lat: 48 ° 46 56.7 N

Lon: 128 ° 9 924 W

Extra comments:

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P8

Event #:

25

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 15 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |     |       |       |        |         | Sample Lists: Core Samples |  |  |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-----|-------|-------|--------|---------|----------------------------|--|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | K5/6 OXY                           | SAL | Nut-F | Nut-C | MA CHL | MA HPLC | TOC                        |  |  |  |  |  |          |
| 1        | 1        | 88       | 2000              | ✓ 2000             | X                                  | X   | XX    | XX    |        |         | X                          |  |  |  |  |  |          |
| 2        | 2        | 89       | 1500              | ✓ 1500             | X                                  | XX  | X     | X     |        |         | XX                         |  |  |  |  |  |          |
| 3        | 3        | 90       | 1250              | ✓ 1250             | XX                                 | X   | X     | X     |        |         | X                          |  |  |  |  |  |          |
| 4        | 4        | 91       | 1000              | ✓ 1000             | X                                  | X   | X     | X     |        |         | X                          |  |  |  |  |  |          |
| 5        | 5        | 92       | 800               | ✓ 800              | XX                                 | X   | X     | X     |        |         | X                          |  |  |  |  |  |          |
| 6        | 6        | 93       | 600               | ✓ 600              | X                                  | X   | X     | X     |        |         | X                          |  |  |  |  |  |          |
| 7        | 7        | 94       | 400               | ✓ 400              | X                                  |     | X     | X     |        |         | X                          |  |  |  |  |  |          |
| 8        | 8        | 95       | 300               | ✓ 300              | X                                  |     | XX    |       |        |         | X                          |  |  |  |  |  |          |
| 9        | 9        | 96       | 250               | ✓ 250              | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 10       | 10       | 97       | 200               | ✓ 200              | XX                                 |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 11       | 11       | 98       | 175               | ✓ 175              | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 12       | 12       | 99       | 150               | ✓ 150              | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 13       | 13       | 100      | 125               | ✓ 125              | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 14       | 14       | 101      | 100               | ✓ 100              | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 15       | 15       | 102      | 75                | ✓ 75               | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 16       | 16       | 103      | 60                | ✓ 60               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 17       | 17       | 104      | 50                | ✓ 50               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 18       | 18       | 105      | 40                | ✓ 40               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 19       | 19       | 106      | 30                | ✓ 30               | X                                  |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 20       | 20       | 107      | 25                | ✓ 25               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 21       | 21       | 108      | 20                | ✓ 20               | XX                                 |     | X     |       |        |         | X                          |  |  |  |  |  |          |
| 22       | 22       | 109      | 15                | ✓ 15               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 23       | 23       | 110      | 10                | ✓ 10               | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |
| 24       | 24       | 111      | 5                 | ✓ 5                | X                                  |     | X     |       |        |         | XX                         |  |  |  |  |  |          |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): M4/008

Bottom Depth: 2510 m

Transmisso Cleaned: ☒ Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0029 | 1729  |
| Bottom | 0104 |       |
| End    | 0157 |       |

Positional Information

Lat: 48 ° 49 06 N

Lon: 128 ° 39 97 W

Bottom

Lat: 48 ° 49 06 N

Lon: 128 ° 39 97 W

End

Lat: 48 ° 49 06 N

Lon: 128 ° 39 97 W

Extra comments:

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P9

Event #:

26

Ship:

JP Tully

UTC Date (dd mm/yyyy): 15 | Aug | 2020

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed

Pressure

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Profile type:

ROS TRM X-Niskin other?

Matchkeeper(s):

MJS

Bottom Depth: m

Transmisso Cleaned: Y N

Time UTC Local

Start 0530 2236

Bottom 0611

End 0645

Positional Information

Lat: 48 ° 51 630 N

Lon: 129 ° 9 720 W

Lat: 48 ° 51 601 N

Lon: 129 ° 9 691 W

Lat: 48 ° 51 556 N

Lon: 129 ° 9 810 W

Extra comments:

PLUS LOOP 1xSal, 2x Chl





Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P11

Event #:

29

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 15 08 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      | Sample Lists: |  |  |  | Comments |                                      |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|---------------|--|--|--|----------|--------------------------------------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC | Core_Samples  |  |  |  |          |                                      |
| 1        |          | 114      | 5                 | ✓ 4.7              |                                    | x     | xx  | xx   |               |  |  |  |          | Salinity checked<br>0.009 on Average |
| 2        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 3        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 4        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 5        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 6        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 7        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 8        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 9        |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 10       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 11       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 12       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 13       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 14       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 15       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 16       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 17       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 18       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 19       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 20       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 21       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 22       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 23       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |
| 24       |          |          |                   |                    |                                    |       |     |      |               |  |  |  |          |                                      |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): DC

Bottom Depth: 2742 m

Transmisso Cleaned: ☒ Y ☐ N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1236 | 0536  |
| Bottom | 1311 | 0611  |
| End    | 1344 |       |

Positional Information

Start

Lat: 48 ° 55 95 N

Lon: 130 ° 10 09 W

Bottom

Lat: 48 ° 55 85 N

Lon: 130 ° 10 20 W

End

Lat: 48 ° 55 82 N

Lon: 130 ° 10 10 W

Extra comments:

Water Properties Group

Program STN List: Line\_P  
Cruise ID: 2020-008 Station: P12 Event #: 32 Ship: JP Tully UTC Date (dd|mm|yyyy): 15 | 08 | 2020

Sampling Log

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

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |        |     |       |       |  | Sample Lists: Core Samples |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|--------|-----|-------|-------|--|----------------------------|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | Fill                               | Unfill | Sal | Nut-F | Nut-C |  |                            |  |          |
| 1        |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 2        | 2        | 115      | 100               |                    | x                                  | x      |     |       |       |  |                            |  |          |
| 3        | 3        | 116      | 150               |                    | x                                  | x      |     |       |       |  |                            |  |          |
| 4        | r4       | 117      | 200               |                    | x                                  | x      |     |       |       |  |                            |  |          |
| 5        | r5       | 118      | 400               |                    | x                                  | x      |     |       |       |  |                            |  |          |
| 6        | 6        | 119      | 600               |                    | x                                  | x      |     |       |       |  |                            |  |          |
| 7        | r7       | 120      | 800               |                    | x                                  | x      | x   | x     | x     |  |                            |  |          |
| 8        |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 9        |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 10       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 11       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 12       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 13       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 14       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 15       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 16       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 17       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 18       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 19       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 20       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 21       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 22       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 23       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |
| 24       |          |          |                   |                    |                                    |        |     |       |       |  |                            |  |          |

Profile type: ROS (TRM) X-Niskin other?  
Watchkeeper(s):

Bottom Depth: 3218 m  
Transmisso Cleaned: Y / N

Time UTC Local  
Start 1731 1031  
Bottom 1804 1104  
End 1830 1130

Positional Information  
Lat: 48 ° 58 19 N  
Lon: 130 ° 39 44 W

Bottom  
Lat: 48 ° 58 21 N  
Lon: 130 ° 39 49 W

End  
Lat: 49 ° 58 21 N  
Lon: 130 ° 39 49 W

Extra comments:  
TM deep cast  
5 watered from bottom

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P12

Event #:

34

Ship:

JP Tully

UTC Date (dd mmm yyyy): 15 | 08 | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                                                        | Sampler's Initials / Samples Taken |        |     |       |       |      | Sample Lists: Core_Samples |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------------------------------------------|------------------------------------|--------|-----|-------|-------|------|----------------------------|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed <input checked="" type="checkbox"/> Pressure | Fill                               | Unfill | Sal | Nut-F | Nut-C | Spec |                            |  |  |  |          |
| 1        | 1        | 121      | 10                |                                                        | X                                  | X      |     |       |       | xx   |                            |  |  |  |          |
| 2        | r2       | 122      | 35                |                                                        | X                                  | X      |     |       |       | xx   |                            |  |  |  |          |
| 3        | 3        | 123      | 50                |                                                        | X                                  | X      |     |       |       |      |                            |  |  |  |          |
| 4        | r4       | 124      | 75                |                                                        | X                                  | X      | X   | X     | X     |      |                            |  |  |  |          |
| 5        |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 6        |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 7        |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 8        |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 9        |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 10       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 11       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 12       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 13       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 14       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 15       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 16       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 17       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 18       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 19       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 20       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 21       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 22       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 23       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |
| 24       |          |          |                   |                                                        |                                    |        |     |       |       |      |                            |  |  |  |          |

Profile type: ROSE TRM X-Niskin other?

Watchkeeper(s): AC

Bottom Depth: 3218 m

Transmisso Cleaned: Y / N

Time UTC Local

Start20481348

Bottom21031403

End21131413

Positional Information

Lat: 48 ° 58 21 N

Lon: 130 ° 39 99 W

Bottom

Lat: 48 ° 58 21 N

Lon: 130 ° 39 99 W

End

Lat: 48 ° 58 21 N

Lon: 130 ° 39 99 W

Extra comments:

TM shallow cast

Water Properties Group

Program  
STN List:

Line P

Sampling Log

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

Cruise ID:

2020-008

Station:

P12

Event #:

35

Ship:

JP Tully

UTC Date (dd mmm yyyy):

15 | Apr | 2020

Rosetta Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

MR M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15 M16 M17 M18 M19 M20 M21 M22 M23 M24

Sample Lists:

All Samples

Comments

Profile type:

RO9 TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 3268 m

Transmisso Cleaned: (Y) / N

Time UTC Local

Start 2225 1525

Bottom 2232

End 2253

Positional Information

Lat: 48 ° 58 330 N

Lon: 130 ° 39 990 W

Bottom

Lat: 48 ° 58 330 N

Lon: 130 ° 39 990 W

End

Lat: 48 ° 58 330 N

Lon: 130 ° 39 990 W

Extra comments:

DMS





Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P13

Event #:

37

Ship:

JP Tully

UTC Date (dd|mm|yyyy):

16 | Apr | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      |  | Sample Lists: Core Samples |  |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|--|----------------------------|--|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC |  |                            |  |  |  |  |          |
| 1        |          | 164      | 5                 | ✓ 5/               | x                                  | x     | xx  | xx   |  |                            |  |  |  |  |          |
| 2        |          | 5037     | LOOP              |                    | x                                  |       | xx  |      |  |                            |  |  |  |  |          |
| 3        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 4        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 5        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 6        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 7        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 8        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 9        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 10       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 11       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 12       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 13       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 14       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 15       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 16       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 17       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 18       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 19       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 20       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 21       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 22       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 23       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |
| 24       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |          |

Profile type: (ROS) TRM X-Niskin other?

Watchkeeper(s): MGR

Bottom Depth: 3011 m

Transmisso Cleaned: 71 N

Time UTC Local

Start 0649 2349

Bottom 0725

End 0758

Positional Information

Start Lat: 49 ° 02.77 N Lon: 131 ° 39.85 W

Bottom Lat: 49 ° 02.77 N Lon: 131 ° 39.84 W

End Lat: 49 ° 02.76 N Lon: 131 ° 39.84 W

Extra comments:

PLUS LOOP 1xSal, 2x Chi

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P14

Event #:

39

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 16 | 08 | 20

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

JS DC JS CHL JS HPLC

Sample Lists: Core Samples

DC/JS TOC

Comments

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): MG

3347

Bottom Depth: 3349 m

Transmisso Cleaned: (Y) N

Time UTC Local

Start 1409 0709

Bottom 1518

End 1640

Positional Information

Lat: 49 ° 07.36 N

Lon: 132 ° 39.97 W

Lat: 49 ° 07.20 N

Lon: 132 ° 39.73 W

Lat: 49 ° 07.22 N

Lon: 132 ° 39.70 W

End

Extra comments:

| Niskin # | Firing # | Sample # | Bot-10 | Pressure | Confirmed Pressure | JS | DC | JS | CHL | JS | HPLC | DC/JS | TOC | Comments                    |
|----------|----------|----------|--------|----------|--------------------|----|----|----|-----|----|------|-------|-----|-----------------------------|
| 1        |          | 165      | ✓      | 3360     |                    |    |    |    |     |    |      |       |     | Stop @ 198 → 5 min          |
| 2        |          | 166      | ✓      | 3000     | 3001               |    | X  |    |     |    |      |       |     | 1 STRAW LENGTH ERROR N 2400 |
| 3        |          | 167      | ✓      | 2500     | 2499               |    | XX |    |     |    |      |       |     |                             |
| 4        |          | 168      | ✓      | 2250     | 2251               |    | X  |    |     |    |      |       | XX  |                             |
| 5        |          | 169      | ✓      | 2000     | 2002               |    | X  |    |     |    |      |       | X   |                             |
| 6        |          | 170      | ✓      | 1750     | 1752               |    | X  |    |     |    |      |       | X   |                             |
| 7        |          | 171      | ✓      | 1500     | 1501               |    | X  |    |     |    |      |       | X   |                             |
| 8        |          | 172      | ✓      | 1250     | 1249               |    | X  |    |     |    |      |       | X   |                             |
| 9        |          | 173      | ✓      | 1000     | 1001               |    | X  |    |     |    |      |       | X   |                             |
| 10       |          | 174      | ✓      | 800      | 799                |    |    |    |     |    |      |       | X   |                             |
| 11       |          | 175      | ✓      | 600      | 600                |    |    |    |     |    |      |       | X   |                             |
| 12       |          | 176      | ✓      | 400      | 399                |    |    |    |     |    |      |       | X   |                             |
| 13       |          | 177      | ✓      | 300      | 300                |    |    |    |     |    |      |       | X   |                             |
| 14       |          | 178      | ✓      | 250      | 250                |    |    |    |     |    |      |       | X   |                             |
| 15       |          | 179      | ✓      | 200      | 200                |    |    |    |     |    |      |       | X   |                             |
| 16       |          | 180      | ✓      | 175      | 175                |    |    |    |     |    |      |       | X   |                             |
| 17       |          | 181      | ✓      | 150      | 150                |    |    |    |     |    |      |       | X   |                             |
| 18       |          | 182      | ✓      | 125      | 125                |    |    |    |     |    |      |       | X   |                             |
| 19       |          | 183      | ✓      | 100      | 100                |    |    |    |     |    |      |       | X   |                             |
| 20       |          | 184      | ✓      | 75       | 76                 |    |    |    |     |    |      |       | X   |                             |
| 21       |          | 185      | ✓      | 50       | 50                 |    |    |    |     |    |      |       | X   |                             |
| 22       |          | 186      | ✓      | 25       | 25                 |    |    |    |     |    |      |       | X   |                             |
| 23       |          | 187      | ✓      | 10       | 10                 |    |    |    |     |    |      |       | X   |                             |
| 24       |          | 188      | ✓      | 5        | 6                  |    | X  |    | X   | XX |      |       | X   |                             |

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P15

Event #:

42

Ship:

JP Tully

UTC Date (dd mmm/yyyy):

16 | AUG | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      | Sample Lists: Core Samples |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|----------------------------|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC |                            |  |  |  |          |
| 1        | 1        | 189      | 5                 | ✓ 5                | x                                  | x     | xx  | xx   |                            |  |  |  |          |
| 2        |          | 5042     | LOOP              |                    | x                                  |       | xx  |      |                            |  |  |  |          |
| 3        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 4        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 5        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 6        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 7        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 8        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 9        |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 10       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 11       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 12       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 13       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 14       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 15       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 16       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 17       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 18       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 19       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 20       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 21       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 22       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 23       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |
| 24       |          |          |                   |                    |                                    |       |     |      |                            |  |  |  |          |

Profile type: ROG TRM X-Niskin other?

Watchkeeper(s): MS

Bottom Depth: 3390 m

Transmisso Cleaned: Y N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 2125 | 1425  |
| Bottom | 2100 |       |
| End    | 2234 |       |

Positional Information

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 12 072  | N |
| Lon: | 133 ° 40 015 | W |

▼

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 12 050  | N |
| Lon: | 133 ° 39 970 | W |

▼

|      |              |   |
|------|--------------|---|
| Lat: | 49 ° 12 010  | N |
| Lon: | 133 ° 39 960 | W |

Extra comments:

PLUS LOOP 1xSal, 2x CHL



Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P16

Event #:

43

Ship:

JP Tully

UTC Date (dd|mm|yyyy):

17 | Dec | 2020

Niskin # Firing # Sample #

| Rosette Operation |           |          | Sampler's Initials / Samples Taken |       |         |       | Sample Lists: |      |            |  | Comments |  |
|-------------------|-----------|----------|------------------------------------|-------|---------|-------|---------------|------|------------|--|----------|--|
| Target Pressure   | Confirmed | Pressure | MR                                 | MM    | MM      | Nut-F | CHL           | HPLC | AI_Samples |  |          |  |
|                   | ✓         |          | DMS                                | DMS-P | DMS-P-d |       |               |      |            |  |          |  |

|    |    |     |     |   |     |    |    |    |    |    |  |          |
|----|----|-----|-----|---|-----|----|----|----|----|----|--|----------|
| 1  | 1  | 190 | 400 | ✓ | 400 | x  | x  | x  | x  |    |  |          |
| 2  | 2  | 191 | 200 | ✓ | 200 | x  | x  | x  |    |    |  |          |
| 3  | 3  | 192 | 150 | ✓ | 150 | x  | x  | x  |    |    |  |          |
| 4  | 4  | 193 | 100 | ✓ | 100 | x  |    | x  |    |    |  |          |
| 5  | 5  | 194 | 75  | ✓ | 75  | x  |    | xx |    |    |  |          |
| 6  | 6  | 195 | 60  | ✓ | 60  |    | x  | x  | xx |    |  | Fluo 42  |
| 7  | 7  | 196 | 50  | ✓ | 50  | x  |    | xx | x  | xx |  | Fluo 225 |
| 8  | 8  | 197 | 40  | ✓ | 40  | x  |    | x  | x  | xx |  | Fluo 225 |
| 9  | 9  | 198 | 30  | ✓ | 30  | x  | x  | x  | x  | xx |  | Fluo 225 |
| 10 | 10 | 199 | 25  | ✓ | 25  | x  |    | x  | x  |    |  |          |
| 11 | 11 | 200 | 20  | ✓ | 20  | xx | xx | xx | x  |    |  |          |
| 12 | 12 | 201 | 15  | ✓ | 15  | x  |    | x  | x  | xx |  | Fluo 225 |
| 13 | 13 | 202 | 10  | ✓ | 10  | x  |    | x  | x  |    |  |          |
| 14 | 14 | 203 | 5   | ✓ | 5   | x  | x  | x  | x  |    |  |          |
| 15 | 15 | 204 | 5   | ✓ | 5   |    |    | x  | x  | xx |  | Fluo 225 |
| 16 | 16 | 205 | 0   | ✓ | 12  | x  | x  | x  | x  | xx |  |          |
| 17 |    |     |     |   |     |    |    |    |    |    |  |          |
| 18 |    |     |     |   |     |    |    |    |    |    |  |          |
| 19 |    |     |     |   |     |    |    |    |    |    |  |          |
| 20 |    |     |     |   |     |    |    |    |    |    |  |          |
| 21 |    |     |     |   |     |    |    |    |    |    |  |          |
| 22 |    |     |     |   |     |    |    |    |    |    |  |          |
| 23 |    |     |     |   |     |    |    |    |    |    |  |          |
| 24 |    |     |     |   |     |    |    |    |    |    |  |          |

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

Bottom Depth: 3685 m  
Transmisso Cleaned: (Y) 1 N

Time UTC Local  
Start 0307 2007  
Bottom 0314  
End 03

Positional Information  
Start  
Lat: 49 ° 16 940 N  
Lon: 134 ° 40 020 W

Bottom  
Lat: 49 ° 16 940 N  
Lon: 134 ° 40 010 W

End  
Lat: 49 ° 16 N  
Lon: 134 ° 40 W

Extra comments:  
DMS



Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P16

Event #:

44

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 17 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |    |    |    |       |       |     | Sample Lists: |     | Core Samples |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|----|----|----|-------|-------|-----|---------------|-----|--------------|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | K5/M6                              | J5 | J5 | J5 | Nut-F | Nut-C | DIC | DOC           | TOC |              |  |          |
| 1        | 1        | 206      | Bot-10            | ✓                  | 3685.2                             | x  |    | x  | x     | x     |     | x             |     |              |  |          |
| 2        | 2        | 207      | 3500              | ✓                  | 3499.4                             | x  | x  | x  | x     | x     |     | x             |     |              |  |          |
| 3        | 3        | 208      | 3500              | ✓                  | 3499.4                             | x  | x  | x  | x     | x     |     | x             |     |              |  |          |
| 4        | 4        | 209      | 3000              | ✓                  | 3000.3                             | xx | x  | x  | x     | x     |     | x             |     |              |  |          |
| 5        | 5        | 210      | 2500              | ✓                  | 2500.2                             | x  | x  | x  | x     | x     |     | x             |     |              |  |          |
| 6        | 6        | 211      | 2000              | ✓                  | 1999.8                             | x  | x  | x  | x     | x     |     | x             |     |              |  |          |
| 7        | 7        | 212      | 1500              | ✓                  | 1500.8                             | xx | xx | x  | x     | x     |     | x             |     |              |  |          |
| 8        | 8        | 213      | 1250              | ✓                  | 1249.9                             | xx | x  | xx | xx    | xx    |     | x             |     |              |  |          |
| 9        | 9        | 214      | 1000              | ✓                  | 1000.4                             | x  | x  | x  | x     | x     |     | x             |     |              |  |          |
| 10       | 10       | 215      | 800               | ✓                  | 799.7                              | x  |    | x  | x     | x     |     | x             |     |              |  |          |
| 11       | 11       | 216      | 600               | ✓                  | 600.3                              | x  |    | x  | x     | x     |     | xx            |     |              |  |          |
| 12       | 12       | 217      | 400               | ✓                  | 400.5                              | x  |    | x  |       |       |     | x             |     |              |  |          |
| 13       | 13       | 218      | 300               | ✓                  | 299.8                              | xx |    | x  |       |       |     | x             |     |              |  |          |
| 14       | 14       | 219      | 250               | ✓                  | 249.0                              | x  |    | x  |       |       |     | x             |     |              |  |          |
| 15       | 15       | 220      | 200               | ✓                  | 199.8                              | x  |    | x  |       |       |     | x             |     |              |  |          |
| 16       | 16       | 221      | 175               | ✓                  | 174.7                              | x  |    | x  |       |       |     | x             |     |              |  |          |
| 17       | 17       | 222      | 150               | ✓                  | 149.2                              | x  |    | x  |       |       |     | x             |     |              |  |          |
| 18       | 18       | 223      | 125               | ✓                  | 125.4                              | x  |    | xx |       |       |     | x             |     |              |  |          |
| 19       | 19       | 224      | 100               | ✓                  | 99.7                               | x  |    | x  |       |       |     | x             |     |              |  |          |
| 20       | 20       | 225      | 75                | ✓                  | 74.8                               | xx |    | x  |       |       |     | x             |     |              |  |          |
| 21       | 21       | 226      | 50                | ✓                  | 50.1                               | x  |    | x  |       |       |     | x             |     |              |  |          |
| 22       | 22       | 227      | 25                | ✓                  | 25.0                               | x  |    | x  |       |       |     | x             |     |              |  |          |
| 23       | 23       | 228      | 10                | ✓                  | 10.1                               | x  |    | x  |       |       |     | x             |     |              |  |          |
| 24       | 24       | 229      | 5                 | ✓                  | 5.0                                | x  |    | x  |       |       |     | x             |     |              |  |          |

Profile type: ☒ ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): K5/M3

Bottom Depth: 3685 m

Transmisso Cleaned: (Y) / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 0405 | 2105  |
| Bottom | 0509 | 2209  |
| End    | 0639 | 1139  |

Positional Information

Lat: 49 ° 16.990 N

Lon: 134 ° 40.000 W

Bottom

Lat: 49 ° 16.990 N

Lon: 134 ° 40.010 W

End

Lat: 49 ° 16.990 N

Lon: 134 ° 40.010 W

Extra comments:

Deep

Line\_P

## Sampling Log

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

Cruise ID:

**2020-008**

Station:

P16

**Event #:** $\frac{45}{46}$ 

Ships

JP Tully

UTC Date (dd|mmm|yyyy): 17 | 05 | 20

**Profile type:**  
ROS TRM

X-Nisikin      other?

**Watchkeeper(s):** \_\_\_\_\_

9

[illegible]

Bottom Depth: 3609 m

Transmisso Cleaned: Y T N

Transmisso Cleaned: Y77N

| Time | UTC | Local |
|------|-----|-------|
|------|-----|-------|

|       |      |  |
|-------|------|--|
| Start | 0805 |  |
|-------|------|--|

|        |     |  |
|--------|-----|--|
| Bottom | 836 |  |
|--------|-----|--|

|     |     |  |
|-----|-----|--|
| End | 702 |  |
|-----|-----|--|

### **Positional Information**

Lat: 49 ° 16.97 N

Lon: 134 ° 39.98 W

Lat: 49° 16' 40" N

Lon: 134.3998 W

Lat: 7° 16' N

Lon: 34.3992 W

**Extra comments:**

**TM deep cast**

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P16

Event #:

47 48

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 17 08 20

Niskin #

Firing #

Sample #

Target Pressure

Confirmed

Pressure

Filt

Unfilt

Sal

Nut-F

Nut-C

Spec

Sample Lists:

Core Samples

Comments

Profile type:

ROS TRM

X-Niskin

other?

Watchkeeper(s):

DC

Bottom Depth:

3608 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

1137

0437

End

1148

1159

Positional Information

Lat: 49 ° 16.98 N

Lon: 134 ° 39.97 W

Start

Lat: 49 ° 16.97 N

Lon: 134 ° 39.96 W

Bottom

Lat: 49 ° 16.97 N

Lon: 134 ° 39.96 W

End

Lat: 49 ° 16.97 N

Lon: 134 ° 39.96 W

Extra comments:

TM shallow cast

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P17

Event #:

50

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 17 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      |  | Sample Lists: Core Samples |  |  |  |  | Comments                |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|--|----------------------------|--|--|--|--|-------------------------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC |  |                            |  |  |  |  |                         |
| 1        |          | 240      | 5                 | ✓                  | x                                  | x     | xx  | xx   |  |                            |  |  |  |  | from deep system in lab |
| 2        |          | 5050     | LOOP              |                    | x                                  |       | xx  |      |  |                            |  |  |  |  |                         |
| 3        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 4        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 5        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 6        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 7        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 8        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 9        |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 10       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 11       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 12       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 13       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 14       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 15       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 16       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 17       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 18       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 19       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 20       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 21       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 22       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 23       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |
| 24       |          |          |                   |                    |                                    |       |     |      |  |                            |  |  |  |  |                         |

Profile type:  

☒ ROS

☐ TRM

☐ X-Niskin

☐ other?

Watchkeeper(s): 55

Bottom Depth: 3642 m

Transmisso Cleaned: ☒ Y / ☐ N

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 16:52 | 09:52 |
| Bottom | 17:26 | 10:26 |
| End    | 17:58 | 10:58 |

Positional Information

Start

Lat: 49 ° 20.980 N

Lon: 135 ° 39.930 W

Bottom

Lat: 49 ° 20.85 N

Lon: 135 ° 39.91 W

End

Lat: 49 ° 20.64 N

Lon: 135 ° 39.90 W

Extra comments:

PLUS LOOP 1xSal, 2x Chl

Water Properties Group

Program  
STN List:

Line P

Sampling Log

Station:

P18

Event #:

52

Bottle 53 on

Ship:

JP Tully

Cruise ID:

2020-008

Station:

P18

Event #:

52

Bottle 53 on

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 17 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |     |     |      |     |      | Sample Lists: |  | Comments |  |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-----|-----|------|-----|------|---------------|--|----------|--|
|          |          |          | Target Pressure   | Confirmed Pressure | Nut-F                              | SAL | CHL | HPLC | TOC | Core | Samples       |  |          |  |
| 1        | 1        | 241      | Bot-10            | ✓ 3890             |                                    |     |     |      | X   |      |               |  |          |  |
| 2        | 2        | 242      | 3500              | ✓ 3500             |                                    | X   |     |      | X   |      |               |  |          |  |
| 3        | 3        | 243      | 3000              | ✓ 3000             |                                    | XX  |     |      | X   |      |               |  |          |  |
| 4        | 4        | 244      | 2500              | ✓ 2500             |                                    | X   |     |      | X   |      |               |  |          |  |
| 5        | 5        | 245      | 2000              | ✓ 2000             |                                    | X   |     |      | X   |      |               |  |          |  |
| 6        | 6        | 246      | 1750              | ✓ 1750             |                                    | X   |     |      | X   |      |               |  |          |  |
| 7        | 7        | 247      | 1500              | ✓ 1500             |                                    | X   |     |      | X   |      |               |  |          |  |
| 8        | 8        | 248      | 1250              | ✓ 1250.3           |                                    | X   |     |      | X   |      |               |  |          |  |
| 9        | 9        | 249      | 1000              | ✓ 1000.2           |                                    | X   |     |      | X   |      |               |  |          |  |
| 10       | 10       | 250      | 800               | ✓ 799.5            |                                    |     |     |      | XX  |      |               |  |          |  |
| 11       | 11       | 251      | 600               | ✓ 599.6            |                                    |     |     |      | X   |      |               |  |          |  |
| 12       | 12       | 252      | 400               | ✓ 400.4            |                                    |     |     |      | X   |      |               |  |          |  |
| 13       | 13       | 253      | 300               | ✓ 300.2            |                                    |     |     |      | X   |      |               |  |          |  |
| 14       | 14       | 254      | 250               | ✓ 250.3            |                                    |     |     |      | X   |      |               |  |          |  |
| 15       | 15       | 255      | 200               | ✓ 200.0            |                                    |     |     |      | X   |      |               |  |          |  |
| 16       | 16       | 256      | 175               | ✓ 174.8            |                                    |     |     |      | X   |      |               |  |          |  |
| 17       | 17       | 257      | 150               | ✓ 149.5            |                                    |     |     |      | X   |      |               |  |          |  |
| 18       | 18       | 258      | 125               | ✓ 124.6            |                                    |     |     |      | X   |      |               |  |          |  |
| 19       | 19       | 259      | 100               | ✓ 99.6             |                                    |     |     |      | X   |      |               |  |          |  |
| 20       | 20       | 260      | 75                | ✓ 74.9             |                                    |     |     |      | X   |      |               |  |          |  |
| 21       | 21       | 261      | 50                | ✓ 49.6             |                                    |     |     |      | X   |      |               |  |          |  |
| 22       | 22       | 262      | 25                | ✓ 25.0             |                                    |     |     |      | X   |      |               |  |          |  |
| 23       | 23       | 263      | 10                | ✓ 9.8              |                                    |     |     |      | X   |      |               |  |          |  |
| 24       | 24       | 264      | 5                 | ✓ 4.6              | X                                  |     | X   | XX   | X   |      |               |  |          |  |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type:  
ROS TRM X-Niskin other?  
Waterkeeper(s): MB

Bottom Depth: 3803 m  
Transmisso Cleaned: (Y) N

Time UTC Local  
Start 2221 1521  
Bottom 2345 1645  
End 0105 1805

Positional Information  
Lat: 49 ° 26 045N  
Lon: 136 ° 40 025W

Bottom  
Lat: 49 ° 26 030 N  
Lon: 136 ° 40 010 W

End  
Lat: 49 ° 26.000 N  
Lon: 136 ° 40 3990 W

Extra comments:  
Meade CMT  
S2 F53  
Comptec E006  
DOWNCAST OF 57



Water Properties Group

Program

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P19

Event #:

54

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 18 | 06 | 2020

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

SAL Nut-F CHL HPLC

Sample Lists: Core Samples

Comments

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 3895 m

Transmisso Cleaned: Y/N

Time UTC Local

Start 0537 2237

Bottom 0618

End 0652

Positional Information

Lat: 49 ° 29 960 N

Lon: 137 ° 39 940 W

Lat: 49 ° 30 053 N

Lon: 137 ° 40 085 W

Lat: 49 ° 30 00 N

Lon: 137 ° 39 96 W

End

Lat: 49 ° 30 00 N

Lon: 137 ° 39 96 W

Extra comments:

PLUS LOOP 1xSal, 2x Chl

Line\_P

# Sampling Log

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

Cruise ID:

2020-008

**Station:**

P20

**Event #:**

57

## Ship:

**JP Tully**

UTC Date (dd mmm yyyy): 18 1 08 2020

Profile type: ROS TRM X-Niskin other? DC  
Watchkeeper(s):

Bottom Depth: 3930 m  
Transmisso Cleaned: Y / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1150 | 0450  |
| Bottom | 1217 |       |
| End    | 1246 |       |

### **Positional Information**

|      |     |   |       |   |
|------|-----|---|-------|---|
| Lat: | 49  | ° | 34.11 | N |
| Lon: | 138 | ° | 39.95 | W |

|      |     |   |       |   |
|------|-----|---|-------|---|
| Lat: | 49  | ° | 34.06 | N |
| Lon: | 138 | ° | 39.97 | W |

|          |   |       |   |
|----------|---|-------|---|
| Lat: 49  | ° | 34.01 | N |
| Lon: 138 | ° | 39.98 | W |

**Extra comments:**

**TM deep cast**

Version: 28May2020

**Transmissometer to be cleaned before each cast, do not use Ammonia products**

Water Properties Group

Program  
STN List:

Line\_P

Cruise ID:

2020-008

Station:

P20

Event #:

59

Ship:

JP Tully

Sampling Log

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

UTC Date (dd mmm yyyy): 18 | 08 | 20

Niskin # Firing # Sample #

Rosette Operation  
Target Pressure ☒ Confirmed Pressure

Sampler's Initials / Samples Taken

Sample Lists: Core\_Samples

Comments

Profile type:  
ROS TRM ☒ X-Niskin ☐ other?  
Watchkeeper(s): DC

Bottom Depth: 3930 m  
Transmisso Cleaned: Y / N

| Time   |  | UTC  | Local |
|--------|--|------|-------|
| Start  |  | 1553 | 0853  |
| Bottom |  | 1603 |       |
| End    |  | 1614 |       |

Positional Information

Start  
Lat: 49 ° 34.01 N  
Lon: 138 ° 39.99 W

Bottom  
Lat: 49 ° 34.01 N  
Lon: 138 ° 39.99 W

End  
Lat: 49 ° 34.01 N  
Lon: 138 ° 39.99 W

Extra comments:

TM shallow cast

Water Properties Group

Program  
STN List:

Line P

Sampling Log

Cruise ID: 2020-008

Station: P20

Event #: 60

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

Ship: JP Tully

UTC Date (dd mmm/yyyy): 18 Aug 2020

| Niskin # | Firing # | Sample # | Target Pressure | Confirmed Pressure | Sampler's Initials / Samples Taken |     |    |     |    |       |       |    | Sample Lists: Core Samples |    |     |  | Comments |
|----------|----------|----------|-----------------|--------------------|------------------------------------|-----|----|-----|----|-------|-------|----|----------------------------|----|-----|--|----------|
|          |          |          |                 |                    | KS/mg                              | OXY | KS | SAL | MB | Nut-F | Nut-C | MR | DIC                        | KS | TOC |  |          |
| 1        | 1        | 279      | Bot-10          | ✓ 4025             | x                                  |     |    |     | x  |       | x     | x  | x                          |    |     |  |          |
| 2        | 2        | 280      | 3500            | ✓ 3500             | x                                  |     | x  |     | xx | xx    | x     | x  | x                          |    |     |  |          |
| 3        | 3        | 281      | 3500            | ✓ 3500             | x                                  |     | x  |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 4        | 4        | 282      | 3000            | ✓ 3000             | x                                  |     | x  |     | x  | x     | x     | x  | xx                         |    |     |  |          |
| 5        | 5        | 283      | 2500            | ✓ 2500             | xx                                 |     | x  |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 6        | 6        | 284      | 2000            | ✓ 2000             | x                                  |     | x  |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 7        | 7        | 285      | 1500            | ✓ 1500             | x                                  |     | xx |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 8        | 8        | 286      | 1250            | ✓ 1250             | x                                  |     | x  |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 9        | 9        | 287      | 1000            | ✓ 1000             | xx                                 |     | x  |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 10       | 10       | 288      | 800             | ✓ 800              | x                                  |     |    |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 11       | 11       | 289      | 600             | ✓ 600              | x                                  |     |    |     | x  | x     | x     | x  | x                          |    |     |  |          |
| 12       | 12       | 290      | 400             | ✓ 400              | x                                  |     |    |     |    | x     |       | x  | x                          |    |     |  |          |
| 13       | 13       | 291      | 300             | ✓ 300              | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 14       | 14       | 292      | 250             | ✓ 250              | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 15       | 15       | 293      | 200             | ✓ 200              | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 16       | 16       | 294      | 175             | ✓ 175              | xx                                 |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 17       | 17       | 295      | 150             | ✓ 150              | x                                  |     |    |     | x  |       |       | xx | x                          |    |     |  |          |
| 18       | 18       | 296      | 125             | ✓ 125              | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 19       | 19       | 297      | 100             | ✓ 100              | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 20       | 20       | 298      | 75              | ✓ 75               | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 21       | 21       | 299      | 50              | ✓ 50               | x                                  |     |    |     | xx |       |       | x  | x                          |    |     |  |          |
| 22       | 22       | 300      | 25              | ✓ 25               | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 23       | 23       | 301      | 10              | ✓ 10               | xx                                 |     |    |     | x  |       |       | x  | x                          |    |     |  |          |
| 24       | 24       | 302      | 5               | ✓ 5                | x                                  |     |    |     | x  |       |       | x  | x                          |    |     |  |          |

302

Nut-F

P20

2020-008

5 m

bot 24

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

End

Bottom

Start

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ROS TRM X-Niskin other?  
Watchkeeper(s): ML/MG/MB

Bottom Depth: 3930 m  
Transmisso Cleaned: (Y) / N

Time UTC Local  
Start 1735 1035  
Bottom 1844  
End 2009

Positional Information  
Lat: 49° 34' 01" N  
Lon: 138° 39' 86" W

Bottom  
Lat: 49° 33' 89" N  
Lon: 138° 39' 86" W

End  
Lat: 49° 33' 68" N  
Lon: 138° 40' 03" W

Extra comments:  
Deep

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID: 2020-008

Station: P20

Event #: 61

Ship: JP Tully

UTC Date (dd/mm/yyyy): 18 Aug 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |           |           |          |        | Sample Lists: |  |  |  |           | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-----------|-----------|----------|--------|---------------|--|--|--|-----------|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | ML DMS                             | MA DMSP-i | MD DMSP-d | ML Nut-F | ML CHL | YS HPLC       |  |  |  |           |          |
| 1        | 1        | 303      | 400               | ✓ 400              | X                                  | X         | X         | X        |        |               |  |  |  |           |          |
| 2        | 2        | 304      | 200               | ✓ 200              | X                                  | X         | X         | X        |        |               |  |  |  |           |          |
| 3        | 3        | 305      | 150               | ✓ 150              | X                                  | X         | X         | X        |        |               |  |  |  |           |          |
| 4        | 4        | 306      | 100               | ✓ 100              | X                                  |           |           | X        | X      |               |  |  |  |           |          |
| 5        | 5        | 307      | 75                | ✓ 75               | X                                  |           |           | X        | X      |               |  |  |  |           |          |
| 6        | 6        | 308      | 60                | ✓ 60               |                                    |           |           | X        | X      | XX            |  |  |  | Fluo 0.65 |          |
| 7        | 7        | 309      | 50                | ✓ 50               | X                                  |           |           | X        | X      | XX            |  |  |  | Fluo 1.2  |          |
| 8        | 8        | 310      | 40                | ✓ 40               | X                                  |           |           | X        | X      | XX            |  |  |  | Fluo 1.5  |          |
| 9        | 9        | 311      | 30                | ✓ 30               | X                                  | X         | X         | X        | X      | XX            |  |  |  | Fluo 1.7  |          |
| 10       | 10       | 312      | 25                | ✓ 25               | X                                  |           |           | X        | XX     |               |  |  |  |           |          |
| 11       | 11       | 313      | 20                | ✓ 20               | XX                                 | XX        | XX        | X        | X      |               |  |  |  |           |          |
| 12       | 12       | 314      | 15                | ✓ 15               | X                                  |           |           | XX       | X      | XX            |  |  |  | Fluo 4.2  |          |
| 13       | 13       | 315      | 10                | ✓ 10               | X                                  |           |           | X        | XX     |               |  |  |  |           |          |
| 14       | 14       | 316      | 5                 | ✓ 5                | X                                  | X         | X         | X        |        |               |  |  |  |           |          |
| 15       | 15       | 317      | 5                 | ✓ 5                |                                    |           |           | X        | X      | XX            |  |  |  | Fluo 4.2  |          |
| 16       | 16       | 318      | 0                 | ✓ 21               | X                                  | X         | X         | X        | X      |               |  |  |  |           |          |
| 17       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 18       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 19       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 20       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 21       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 22       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 23       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |
| 24       |          |          |                   |                    |                                    |           |           |          |        |               |  |  |  |           |          |

Profile type: ROS TRM X-Niskin other?

Waterkeeper(s): MR

Bottom Depth: 3933 m

Transmisso Cleaned: (Y) 1 N

| Time   |  | UTC  | Local |
|--------|--|------|-------|
| Start  |  | 2109 | 1409  |
| Bottom |  | 2116 |       |
| End    |  | 2136 |       |

Positional Information

Lat: 49 ° 33 380 N

Lon: 138 ° 39 930 W

Bottom

Lat: 49 ° 33 376 N

Lon: 138 ° 39 913 W

End

Lat: 49 ° 33 374 N

Lon: 138 ° 39 899 W

Extra comments:

DMS



Water Properties Group

Program

STN List:

Sampling Log

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

Cruise ID:

2020-008

Station:

P21

Event #:

63

Ship:

JP Tully

UTC Date (dd|mm|yyyy): 19 | Aug | 2020

Rosette Operation

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Target Pressure

Confirmed Pressure

SAL

Nut-F

CHL

HP

PLC

Comments

Profile type:

ROS X TRM X-Niskin other?

Waterkeeper(s): MB

Bottom Depth: 3925 m

Transmisso Cleaned: Y N

Time UTC Local

Start 0158 1858

Bottom 0236

End 0316

Positional Information

Lat: 49 ° 37 984 N

Lon: 139 ° 40 027 W

Lat: 49 ° 37 898 N

Lon: 139 ° 40 082 W

Lat: 49 ° 37 898 N

Lon: 139 ° 39 858 W

Lat: 49 ° 37 898 N

Lon: 139 ° 39 858 W

Extra comments:

PLUS LOOP 1xSal, 2x Chl

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P22

Event #:

64

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 19 | 08 | 20

| Niskin # | Firing # | Sample # | Rosette Operation |             | Sampler's Initials / Samples Taken |    |    |    |    | Sample Lists: |              | Comments |  |  |  |  |
|----------|----------|----------|-------------------|-------------|------------------------------------|----|----|----|----|---------------|--------------|----------|--|--|--|--|
|          |          |          | Target Pressure   | Confirmed ✓ | Pressure                           | J5 | M6 | J5 | J5 | TOC           | Core Samples |          |  |  |  |  |
| 1        |          | 320      | Bot-10            | ✓           | 3953                               |    |    |    |    | X             |              |          |  |  |  |  |
| 2        |          | 321      | 3500              | ✓           | 3500                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 3        |          | 322      | 3000              | ✓           | 3000                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 4        |          | 323      | 2500              | ✓           | 2500                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 5        |          | 324      | 2000              | ✓           | 2001                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 6        |          | 325      | 1750              | ✓           | 1751                               |    | XX |    |    | X             |              |          |  |  |  |  |
| 7        |          | 326      | 1500              | ✓           | 1501                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 8        |          | 327      | 1250              | ✓           | 1250                               |    | X  |    |    | X             |              |          |  |  |  |  |
| 9        |          | 328      | 1000              | ✓           | 998                                |    | X  |    |    | X             |              |          |  |  |  |  |
| 10       |          | 329      | 800               | ✓           | 800                                |    |    |    |    | X             |              |          |  |  |  |  |
| 11       |          | 330      | 600               | ✓           | 600                                |    |    |    |    | X             |              |          |  |  |  |  |
| 12       |          | 331      | 400               | ✓           | 397                                |    |    |    |    | X             |              |          |  |  |  |  |
| 13       |          | 332      | 300               | ✓           | 300                                |    |    |    |    | X             |              |          |  |  |  |  |
| 14       |          | 333      | 250               | ✓           | 251                                |    |    |    |    | X             |              |          |  |  |  |  |
| 15       |          | 334      | 200               | ✓           | 201                                |    |    |    |    | X             |              |          |  |  |  |  |
| 16       |          | 335      | 175               | ✓           | 176                                |    |    |    |    | X             |              |          |  |  |  |  |
| 17       |          | 336      | 150               | ✓           | 150                                |    |    |    |    | XX            |              |          |  |  |  |  |
| 18       |          | 337      | 125               | ✓           | 126                                |    |    |    |    | X             |              |          |  |  |  |  |
| 19       |          | 338      | 100               | ✓           | 101                                |    |    |    |    | X             |              |          |  |  |  |  |
| 20       |          | 339      | 75                | ✓           | 75                                 |    |    |    |    | X             |              |          |  |  |  |  |
| 21       |          | 340      | 50                | ✓           | 50                                 |    |    |    |    | X             |              |          |  |  |  |  |
| 22       |          | 341      | 25                | ✓           | 24                                 |    |    |    |    | X             |              |          |  |  |  |  |
| 23       |          | 342      | 10                | ✓           | 9                                  |    |    |    |    | X             |              |          |  |  |  |  |
| 24       |          | 343      | 5                 | ✓           | 5                                  | X  |    | X  | XX | X             |              |          |  |  |  |  |

Profile type:  
ROS TRM X-Niskin other?

Watchkeeper(s): M6

Bottom Depth: 3945 m

Transmisso Cleaned: Y / N

Time UTC Local

Start07280028

Bottom0832

End1005

Positional Information

Lat: 49 ° 42.01 N

Lon: 140 ° 40.07 W

Bottom

Lat: 49 ° 42.16 N

Lon: 140 ° 39.76 W

End

Lat: 49 ° 42.38 N

Lon: 140 ° 39.46 W

Extra comments:

Water Properties Group

Program STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P23

Event #:

66

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 19 08 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |      | Sample Lists: |         |  |  | Comments                 |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|------|---------------|---------|--|--|--------------------------|
|          |          |          | Target Pressure   | Confirmed Pressure | SAL                                | Nut-F | CHL | HPLC | Core          | Samples |  |  |                          |
| 1        |          | 344      | 5                 |                    | X                                  | X     | XX  | XX   |               |         |  |  | Stopped at 23m for 2min. |
| 2        |          | 5066     | LOOP              |                    | X                                  |       | XX  |      |               |         |  |  |                          |
| 3        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 4        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 5        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 6        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 7        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 8        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 9        |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 10       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 11       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 12       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 13       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 14       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 15       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 16       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 17       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 18       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 19       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 20       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 21       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 22       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 23       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |
| 24       |          |          |                   |                    |                                    |       |     |      |               |         |  |  |                          |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): DC

Bottom Depth: 4003 m

Transmisso Cleaned: ☒ Y ☐ N

| Time   | UTC   | Local |
|--------|-------|-------|
| Start  | 14:25 | 7:25  |
| Bottom | 15:03 | 8:03  |
| End    | 15:37 | 8:37  |

Positional Information

Lat: 49 ° 46 05 N

Lon: 141 ° 40 00 W

Bottom

Lat: 49 ° 46 20 N

Lon: 141 ° 40 21 W

End

Lat: 49 ° 46 19 N

Lon: 141 ° 40 17 W

Extra comments:

PLUS LOOP 1xSal, 2x Chi

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P24

Event #:

68

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 19 | Aug | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |       |     |     |    | Sample Lists: |     | Core Samples |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-------|-----|-----|----|---------------|-----|--------------|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | KS                                 | KS/MQ | SAL | CHL | IS | ML            | TOC |              |  |          |
| 1        | 1        | 345      | Bot-10            | ✓ 4646             |                                    |       |     |     |    | x             |     |              |  |          |
| 2        | 2        | 346      | 3500              | ✓ 3500             |                                    |       | xx  |     |    | x             |     |              |  |          |
| 3        | 3        | 347      | 3000              | ✓ 3000             |                                    |       | x   |     |    | x             |     |              |  |          |
| 4        | 4        | 348      | 2500              | ✓ 2500             |                                    |       | x   |     |    | xx            |     |              |  |          |
| 5        | 5        | 349      | 2000              | ✓ 2000             |                                    |       | x   |     |    | x             |     |              |  |          |
| 6        | 6        | 350      | 1750              | ✓ 1750             |                                    |       | x   |     |    | x             |     |              |  |          |
| 7        | 7        | 351      | 1500              | ✓ 1500             |                                    |       | x   |     |    | x             |     |              |  |          |
| 8        | 8        | 352      | 1250              | ✓ 1250             |                                    |       | x   |     |    | x             |     |              |  |          |
| 9        | 9        | 353      | 1000              | ✓ 1000             |                                    |       | x   |     |    | x             |     |              |  |          |
| 10       | 10       | 354      | 800               | ✓ 800              |                                    |       | x   |     |    | x             |     |              |  |          |
| 11       | 11       | 355      | 600               | ✓ 600              |                                    |       | x   |     |    | x             |     |              |  |          |
| 12       | 12       | 356      | 400               | ✓ 400              |                                    |       | x   |     |    | x             |     |              |  |          |
| 13       | 13       | 357      | 300               | ✓ 300              |                                    |       | x   |     |    | x             |     |              |  |          |
| 14       | 14       | 358      | 250               | ✓ 250              |                                    |       | xx  |     |    | x             |     |              |  |          |
| 15       | 15       | 359      | 200               | ✓ 200              |                                    |       | x   |     |    | x             |     |              |  |          |
| 16       | 16       | 360      | 175               | ✓ 175              |                                    |       | x   |     |    | x             |     |              |  |          |
| 17       | 17       | 361      | 150               | ✓ 150              |                                    |       | xx  |     |    | x             |     |              |  |          |
| 18       | 18       | 362      | 125               | ✓ 125              |                                    |       | x   |     |    | x             |     |              |  |          |
| 19       | 19       | 363      | 100               | ✓ 100              |                                    |       | x   |     |    | x             |     |              |  |          |
| 20       | 20       | 364      | 75                | ✓ 75               |                                    |       | x   |     |    | x             |     |              |  |          |
| 21       | 21       | 365      | 50                | ✓ 50               |                                    |       | x   |     |    | x             |     |              |  |          |
| 22       | 22       | 366      | 25                | ✓ 25               |                                    |       | x   |     |    | x             |     |              |  |          |
| 23       | 23       | 367      | 10                | ✓ 10               |                                    |       | x   |     |    | x             |     |              |  |          |
| 24       | 24       | 368      | 5                 | ✓ 5                |                                    |       | x   |     |    | x             |     |              |  |          |

Profile type: ROS TRM X-Niskin other?  
Watchkeeper(s): M3

Bottom Depth: 3250 m  
Transmisso Cleaned: Y1 N

Time UTC Local  
Start 1948 1248  
Bottom 2109  
End 2238

Positional Information  
Start  
Lat: 49 ° 50 190 N  
Lon: 142 ° 40 006 W

Bottom  
Lat: 49 ° 56 179 N  
Lon: 142 ° 40 003 W

End  
Lat: 49 ° 50 195 N  
Lon: 142 ° 40 003 W

Extra comments:  
Added salinities for full profile.

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P25

Event #:

69

Ship:

JP Tully

UTC Date (dd|mm|yyyy): 20 | Aug | 2020

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

SAL

Nul-F

CHL

HPLC

Sample Lists: Core Samples

Comments

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): KS

Bottom Depth: deep m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0243 1943

Bottom 0321 1821

End 0352 1852

Positional Information

Lat: 49 ° 59.990 N

Lon: 143 ° 36.240 W

Bottom Lat: 50 ° 00.000 N

Lon: 143 ° 36.290 W

End Lat: 50 ° 0.020 N

Lon: 143 ° 36.310 W

Extra comments:

PLUS LOOP 1xSal, 2x CHL

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products



Water Properties Group

Program STN List:

Line\_P

Sampling Log

Station:

P35

Event #:

70

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

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 20 Aug 2020

Cruise ID:

2020-008

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed

Pressure

Sampler's Initials / Samples Taken

SAL

Nut-F

CHL

HPLC

Sample Lists: Core Samples

Comments

Profile type:

(ROS) TRM X-Niskin other?

Watchkeeper(s): KS/JS

Bottom Depth: 4110 m

Transmisso Cleaned:

(Y) / N

Time UTC Local

Start 0651 1151

Bottom 0727 0027

End 0800 0100

Positional Information

Lat: 50° 0.038 N

Lon: 144° 18.116 W

Bottom Lat: 50° 0.10 N

Lon: 144° 18.13 W

End Lat: 50° 0.10 N

Lon: 144° 19.13 W

Extra comments:

All strip @ ~630m ~3min

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P26

Event #:

72

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 20 | 08 | 20

Niskin # Firing # Sample #

Rosette Operation  
Target Pressure

Confirmed  
Pressure

Sampler's Initials / Samples Taken  
Filt Unfilt Sal Nut-F Nut-C Spec Lig

Sample Lists: Core Samples

Comments

Profile type:  
ROS TRM X-Niskin other?  
Watchkeeper(s): DC

Bottom Depth: 4209 m  
Transmisso Cleaned: Y / N

Time UTC Local  
Start 1138 0438  
Bottom 1150  
End 1200

Positional Information  
Start  
Lat: 49 ° 59.97 N  
Lon: 144 ° 59.95 W

Bottom  
Lat: 49 ° 59.98 N  
Lon: 144 ° 59.98 W

End  
Lat: 49 ° 59.99 N  
Lon: 144 ° 59.99 W

Extra comments:  
TM first cast



Line 1

# Sampling Log

Cruise ID:

2020-008

**Station:**

P26

Event #:

76

**Ship:**

**JP Tully**

**Ocean Sciences Division, Sidney, BC**

UTC Date (dd/mm/yyyy): 2025-08-22

| Niskin # | Firing # | Sample # |
|----------|----------|----------|
| #        | #        | #        |

| Rosette Operation |                    |
|-------------------|--------------------|
| Target Pressure   | Confirmed Pressure |
| ✓                 | Pressure           |

**Sampler's Initials / Samples Taken**

**Sample Lists:** Core Samples

### Comments

**Profile type:**

|     |     |         |        |
|-----|-----|---------|--------|
| KOS | 1RM | X-Niskn | other? |
|-----|-----|---------|--------|

Watchkeeper(s):

PC

Bottom Depth: 4256 m

**Transmisso Cleaned:** Y / N

Time UTC / local

| Start |       |
|-------|-------|
| 1800  | 11:00 |

|        |       |   |
|--------|-------|---|
| Bottom | 18 11 | 1 |
|--------|-------|---|

|     |      |
|-----|------|
| End | 1826 |
|-----|------|

### Positional Information

Lat: 50° 00.00

Lon: 145° 00' 01"

Lat: 52° 00' 00"

Lon: 145.000

▲

Lat: 20° 00' 00"

Lon: 145.000

**Extra comments:**

**TM third cast**

Version: 28May2020

**Transmissometer to be cleaned before each cast, do not use Ammonia products**

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P26

Event #:

77

Ship:

JP Tully

UTC Date (dd mmm yyyy): 20 | AUG | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |    |    |    |    |    |      |    |        |      | Sample Lists: Core Samples |       |         |  |      | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|----|----|----|----|----|------|----|--------|------|----------------------------|-------|---------|--|------|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | MR                                 | MA | MD | MR | M3 | KS | HPLC | MR | Lugols | Glut | Form                       | KS/MA | Section |  |      |          |
| 1        | 1        | 385      | 400               | ✓ 400              | x                                  | x  | x  | x  |    |    |      |    |        |      |                            |       |         |  |      |          |
| 2        | 2        | 386      | 200               | ✓ 200              | x                                  | x  | x  | x  |    |    |      |    |        |      |                            |       |         |  |      |          |
| 3        | 3        | 387      | 150               | ✓ 150              | x                                  | x  | x  | xx |    |    |      |    |        |      |                            |       |         |  |      |          |
| 4        | 4        | 388      | 100               | ✓ 100              | x                                  |    |    | x  | x  |    |      |    |        |      |                            |       |         |  |      |          |
| 5        | 5        | 389      | 75                | ✓ 75               | x                                  |    |    | x  | x  |    |      |    |        |      |                            |       |         |  |      |          |
| 6        | 6        | 390      | 60                | ✓ 60               |                                    |    |    | x  | x  | xx |      |    |        |      |                            |       |         |  | Fluo |          |
| 7        | 7        | 391      | 50                | ✓ 50               | x                                  |    |    | x  | x  | xx |      |    |        |      |                            |       |         |  | Fluo |          |
| 8        | 8        | 392      | 40                | ✓ 40               | x                                  |    |    | x  | xx | xx |      |    |        |      |                            |       |         |  | Fluo |          |
| 9        | 9        | 393      | 30                | ✓ 30               | x                                  | x  | x  | x  | x  | xx |      |    |        |      |                            |       |         |  | Fluo |          |
| 10       | 10       | 394      | 25                | ✓ 25               | x                                  |    |    | x  | x  |    |      |    |        |      |                            |       |         |  |      |          |
| 11       | 11       | 395      | 20                | ✓ 20               | xx                                 | xx | xx | x  | xx |    |      |    |        |      |                            |       |         |  |      |          |
| 12       | 12       | 396      | 15                | ✓ 15               | x                                  |    |    | x  | x  | xx |      |    |        |      |                            |       |         |  | Fluo |          |
| 13       | 13       | 397      | 10                | ✓ 10               | x                                  |    |    | x  | x  |    |      |    |        |      |                            |       |         |  |      |          |
| 14       | 14       | 398      | 5                 | ✓ 5                | x                                  | x  | x  | x  |    |    |      |    |        |      |                            |       |         |  |      |          |
| 15       | 15       | 399      | 5                 | ✓ 5                |                                    |    |    | x  | x  | xx |      |    | x      | x    | x                          |       |         |  | Fluo |          |
| 16       | 16       | 400      | 0                 | ✓ 16               | x                                  | x  | x  | x  | x  |    |      |    |        |      |                            |       |         |  |      |          |
| 17       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 18       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 19       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 20       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 21       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 22       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 23       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |
| 24       |          |          |                   |                    |                                    |    |    |    |    |    |      |    |        |      |                            |       |         |  |      |          |

Profile type: (ROS) TRM X-Niskin other?  
Watchkeeper(s): MR

Bottom Depth: 4250 m  
Transmisso Cleaned: (Y) / N

| Time   | UTC  | Local |
|--------|------|-------|
| Start  | 1933 | 1233  |
| Bottom | 1946 |       |
| End    | 2001 |       |

Positional Information  
Lat: 49 ° 59 970 N  
Lon: 141 ° 59 970 W

Bottom  
Lat: 49 ° 59 976 N  
Lon: 144 ° 59 950 W

End  
Lat: 49 ° 59 990 N  
Lon: 145 ° 0 000 W

Extra comments:  
DMS



Water Properties Group

Cruise ID: 2020-008

Program  
STN List:

Line\_P

Sampling Log

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

Station: P26

Event #: 78

Ship: JP Tully

UTC Date (dd mmm yyyy): 20 | Aug | 2020

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |     |       |       | Sample Lists: |     | Core Samples |  |  |  | Comments |
|----------|----------|----------|-------------------|--------------------|------------------------------------|-----|-------|-------|---------------|-----|--------------|--|--|--|----------|
|          |          |          | Target Pressure   | Confirmed Pressure | OXY                                | SAL | Nut-F | Nut-C | DIC           | TOC |              |  |  |  |          |
| 1        | 1        | 401      | Bot-10            | ✓ 4317             | x                                  |     | xx    | xx    | x             | x   |              |  |  |  |          |
| 2        | 2        | 402      | 4000              | ✓ 4000             | xx                                 | xx  | x     | x     | xx            | x   |              |  |  |  |          |
| 3        | 3        | 403      | 3500              | ✓ 3500             | x                                  | x   | x     | x     | x             | x   |              |  |  |  |          |
| 4        | 4        | 404      | 3000              | ✓ 3000             | x                                  | xx  | x     | x     | x             | xx  |              |  |  |  |          |
| 5        | 5        | 405      | 2500              | ✓ 2500             | x                                  | x   | x     | x     | x             | x   |              |  |  |  |          |
| 6        | 6        | 406      | 2000              | ✓ 2000             | xx                                 | x   | x     | x     | x             | x   |              |  |  |  |          |
| 7        | 7        | 407      | 1500              | ✓ 1500             | x                                  | x   | x     | x     | x             | x   |              |  |  |  |          |
| 8        | 8        | 408      | 1250              | ✓ 1250             | x                                  | x   | x     | x     | x             | x   |              |  |  |  |          |
| 9        | 9        | 409      | 1000              | ✓ 1000             | x                                  | x   | x     | x     | x             | x   |              |  |  |  |          |
| 10       | 10       | 410      | 800               | ✓ 800              | x                                  |     | x     | x     | x             | x   |              |  |  |  |          |
| 11       | 11       | 411      | 600               | ✓ 600              | x                                  |     | x     | x     | x             | x   |              |  |  |  |          |
| 12       | 12       | 412      | 400               | ✓ 401              | xx                                 |     | x     | x     | x             | x   |              |  |  |  |          |
| 13       | 13       | 413      | 300               | ✓ 299              | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 14       | 14       | 414      | 250               | ✓ 250              | x                                  |     | xx    |       | x             | x   |              |  |  |  |          |
| 15       | 15       | 415      | 200               | ✓ 200              | x                                  |     | x     |       | x             | xx  |              |  |  |  |          |
| 16       | 16       | 416      | 175               | ✓ 175              | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 17       | 17       | 417      | 150               | ✓ 149              | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 18       | 18       | 418      | 125               | ✓ 124              | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 19       | 19       | 419      | 100               | ✓ 100              | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 20       | 20       | 420      | 75                | ✓ 75               | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 21       | 21       | 421      | 50                | ✓ 50               | xx                                 |     | x     |       | x             | x   |              |  |  |  |          |
| 22       | 22       | 422      | 25                | ✓ 25               | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 23       | 23       | 423      | 10                | ✓ 10               | x                                  |     | x     |       | x             | x   |              |  |  |  |          |
| 24       | 24       | 424      | 5                 | ✓ 5                | x                                  |     | x     |       | x             | x   |              |  |  |  |          |

Profile type: ROS TRM X-Niskin other?  
Watchkeeper(s): N18

Bottom Depth: 4253 m  
Transmisso Cleaned: Y / N

Time UTC Local  
Start 2153 1453  
Bottom 2311 1611  
End 0047 1747

Positional Information  
Lat: 50 ° 0 006 N  
Lon: 145 ° 0 016 W

Bottom  
Lat: 49 ° 59.99 N  
Lon: 144 ° 59.99 W

End  
Lat: 49 ° 59.993 N  
Lon: 144 ° 59.990 W

Extra comments:  
Deep

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

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

Cruise ID:

2020-008

Station:

P4

Event #:

86

Ship:

JP Tully

UTC Date (dd mmm yyyy):

24 | Apr | 22

| Niskin # | Firing # | Sample # | Rosette Operation |                    | Sampler's Initials / Samples Taken |    |       |       |     |      | Sample Lists: |  | Comments |  |
|----------|----------|----------|-------------------|--------------------|------------------------------------|----|-------|-------|-----|------|---------------|--|----------|--|
|          |          |          | Target Pressure   | Confirmed Pressure | kslmb                              | MA | Nut-F | Nut-C | GHL | HPLC | Core Samples  |  |          |  |
| 1        | 1        | 425      | Bot-10            | ✓                  | 1316                               | x  |       |       |     |      |               |  |          |  |
| 2        | 2        | 426      | 1250              | ✓                  | 1250                               | xx | x     |       |     |      |               |  |          |  |
| 3        | 3        | 427      | 1250              | ✓                  | 1250                               | x  | x     |       |     |      |               |  |          |  |
| 4        | 4        | 428      | 1000              | ✓                  | 1000                               | x  | xx    |       |     |      |               |  |          |  |
| 5        | 5        | 429      | 800               | ✓                  | 800                                | x  | x     |       |     |      |               |  |          |  |
| 6        | 6        | 430      | 600               | ✓                  | 600                                | x  |       |       |     |      |               |  |          |  |
| 7        | 7        | 431      | 400               | ✓                  | 400                                | x  |       |       |     |      |               |  |          |  |
| 8        | 8        | 432      | 300               | ✓                  | 300                                | x  |       |       |     |      |               |  |          |  |
| 9        | 9        | 433      | 250               | ✓                  | 250                                | xx |       |       |     |      |               |  |          |  |
| 10       | 10       | 434      | 200               | ✓                  | 200                                | x  |       |       |     |      |               |  |          |  |
| 11       | 11       | 435      | 175               | ✓                  | 175                                | x  |       |       |     |      |               |  |          |  |
| 12       | 12       | 436      | 150               | ✓                  | 150                                | x  |       |       |     |      |               |  |          |  |
| 13       | 13       | 437      | 125               | ✓                  | 125                                | x  |       |       |     |      |               |  |          |  |
| 14       | 14       | 438      | 100               | ✓                  | 100                                | x  |       |       |     |      |               |  |          |  |
| 15       | 15       | 439      | 75                | ✓                  | 75                                 | x  |       |       |     |      |               |  |          |  |
| 16       | 16       | 440      | 50                | ✓                  | 50                                 | x  |       |       |     |      |               |  |          |  |
| 17       | 17       | 441      | 25                | ✓                  | 25                                 | xx |       |       |     |      |               |  |          |  |
| 18       | 18       | 442      | 10                | ✓                  | 10                                 | x  |       |       |     |      |               |  |          |  |
| 19       | 19       | 443      | 5                 | ✓                  | 5                                  | x  | x     |       |     |      |               |  |          |  |
| 20       |          |          |                   |                    |                                    |    |       |       |     |      |               |  |          |  |
| 21       |          |          |                   |                    |                                    |    |       |       |     |      |               |  |          |  |
| 22       |          |          |                   |                    |                                    |    |       |       |     |      |               |  |          |  |
| 23       |          |          |                   |                    |                                    |    |       |       |     |      |               |  |          |  |
| 24       |          |          |                   |                    |                                    |    |       |       |     |      |               |  |          |  |

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type:  
ROS TRM X-Niskin other?  
Watchkeeper(s):

Bottom Depth: 1328 m  
Transmisso Cleaned: Y N

Time UTC Local  
Start 0521 2221  
Bottom 0541  
End 0621

Positional Information  
Start  
Lat: 48 ° 38 970 N  
Lon: 126 ° 39 860 W

Bottom  
Lat: 48 ° 38 990 N  
Lon: 126 ° 39 970 W

End  
Lat: 48 ° 39 000 N  
Lon: 126 ° 40 000 W

Extra comments:  
Return

Water Properties Group

Program  
STN List:

Line P

Sampling Log

Cruise ID:

2020-008

Station:

P4

Event #:

87

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

Ship:

JP Tully

UTC Date (dd mm/yyyy): 24 | 08 | 20

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed

Pressure

Sampler's Initials / Samples Taken

Fill

Unfill

Sal

Nut-F

Nut-C

Sample Lists: Core Samples

Comments

Profile type:

ROS TRM

X-Niskin

other?

Watchkeeper(s): DC

Bottom Depth: 1330 m

Transmisso Cleaned: Y / N

Time

UTC

Local

Start

0734 0824

Bottom

0749

End

0815

Positional Information

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Extra comments:

TM deep cast

Water Properties Group

Program  
STN List:

Line\_P

Sampling Log

Cruise ID:

2020-008

Station:

P4

Event #:

89

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

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 24 | 06 | 20

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed Pressure

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Profile type:

ROS TRM

K-Niskin other?

Watchkeeper(s):

PC

Bottom Depth: 1332 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0855 0155

Bottom 0901

End 0913

Positional Information

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Bottom

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

End

Lat: 48 ° 38.99 N

Lon: 126 ° 40.00 W

Extra comments:

TM shallow cast