



# **POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT**

## **POINT LOMA WASTEWATER TREATMENT PLANT**

NPDES Permit No. CA0107409  
SDRWQCB Order No. R9-2017-0007

## **AUGUST 2022**

Environmental Monitoring and Technical Services  
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Public Utilities Department  
Environmental Monitoring & Technical Services Division

September 30, 2022

Mr. David W. Gibson, Executive Officer  
California Regional Water Quality Control Board  
San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the August 2022 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2017-0007, NPDES Permit No. CA0107409.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the Point Loma outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in blue ink that reads "Peter S. Vroom".

Peter S. Vroom, Ph. D.  
Deputy Director, Public Utilities Department

PV/rk

cc: U.S. Environmental Protection Agency, Region 9



## INTRODUCTION

Monthly reports of water quality and ocean conditions for the San Diego coastal region surrounding the Point Loma Ocean Outfall are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2017-0007, NPDES Permit No. CA0107409 for the Point Loma Wastewater Treatment Plant (PLWTP), Point Loma Ocean Outfall (PLOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the PLWTP are presented in separate reports.

## MATERIALS AND METHODS

### ***Shore Stations***

Water quality conditions are required to be monitored at eight shoreline stations, including D4, D5, D7, D8, D9, D10, D11 and D12, which range from the tip of the Point Loma Peninsula to west of Mission Bay (see station locations map). Over the past several years, due to increasing instability in several cliffside areas of Point Loma, City staff have been unable to safely access and sample several stations at various times. This has resulted in the following modifications:

- Station D8 was replaced by alternate station D8-A during July 2016, which was subsequently replaced by station D8-B in March 2018, after which sampling at station D8-A resumed in December 2020. Due to recent access issues at D8-A, sampling resumed at D8-B during February 2020.

Seawater samples are collected from the surf zone at each station on a weekly basis. These samples are subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of several types of fecal indicator bacteria (FIB), including total coliforms, fecal coliforms, and *Enterococcus*. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions are also recorded at the time of sample collection. Wind speed and direction are measured using a hand-held anemometer with a compass.

### ***Kelp Bed Stations***

The eight kelp stations are sampled weekly according to permit specifications to monitor water quality conditions within the Point Loma kelp forest. These stations include three sites located along the inshore edge of the kelp bed paralleling the 9-m depth contour (i.e., stations C4, C5 and C6), and five sites located near the offshore edge of the kelp bed along the 18-m depth contour (i.e., stations A1, A6, A7, C7 and C8).

Routine weekly monitoring at each of the kelp bed sites consists primarily of collecting seawater samples at discrete depths to determine concentrations of fecal indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Water column profiles of various physical/chemical parameters are also generated during each sampling event, and visual observations of weather and water conditions are recorded at each station.

Seawater samples at the kelp bed stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses are drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column

profiles of temperature, transmissivity, dissolved oxygen, pH, salinity, density, chlorophyll *a* are generated using a Sea-Bird conductivity, temperature and depth instrument (CTD), which collects these data at a rate of  $\geq 4$  scans per second. These scans are then internally averaged to create water column profiles with data readings at a rate of one per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

### ***Offshore Stations***

Offshore water quality sampling is conducted quarterly typically during the months of February, May, August and November. A total of 36 offshore stations (F01–F36) are sampled during each survey usually over a 3-day period. Three of the stations (F01–F03) are located along the 18 m depth contour, while 11 stations are located along each of the following contours: 60 m (stations F04–F14), 80 m (stations F15–F25), and 98 m (stations F26–F36). Of these 36 stations, 15 (F01–F03, F06–F14, F18–F20) are located within State jurisdictional waters (i.e., within 3 nautical miles of shore) and are subject to the California Ocean Plan's compliance standards. Monitoring at all offshore sites includes measurements of *Enterococcus* bacteria, water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

Seawater samples for bacteriological analyses at the offshore stations are collected using a CTD-integrated rosette sampler with Niskin bottles. Profiles of the various physical/chemical parameters (listed above) are taken using a Sea-Bird CTD. Additionally, data for depths closest to those at which bacteriological samples were collected are extracted from the CTD profiles and presented with the bacteriological data.

### ***Bacteriological Reporting and Quality Assurance***

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)<sup>1</sup>. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the geometric mean and single sample maximum water-contact standards specified in the 2015 California Ocean Plan. The seven standards are defined as follows:

**30-day Geometric Mean:** The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL

### **Single Sample Maximums:**

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<sup>1</sup> Bordner, R., J. Winter, and P. Scarpino (eds.). (1978). Microbiological Methods for Monitoring the Environment: Water and Wastes, EPA Research and Development, EPA-600/8-78-017. 337 p.

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987<sup>2</sup>) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2022 Quality Assurance Report, which will be completed in March 2023.

## SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for *Enterococcus* and total coliforms, see Appendix B.

### ***Shore Stations***

- The eight shore stations (D4, D5, D7, D8-B, D9, D10, D11, D12) were sampled on August 3, 10, 17, 24, and 31.
- During August, one of the eight shore stations was out of compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
  - The Single Sample Maximum (SSM) standard for fecal coliforms was exceeded at station D8-B.
  - Per permit requirements, resamples were collected in response to this SSM exceedance (see Table 2.8 for details).
- Nothing of sewage origin was observed at any of the shore stations.
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surf grass. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

### ***Kelp Bed Stations***

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<sup>2</sup> Gilbert, R.O. (1987). Statistical Methods for Environmental Pollution Monitoring. Van Nostrand Reinhold Co., New York.

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on August 2, 8, 15, 23, and 30.
- During August, each of the eight kelp bed stations was in compliance with the various 2015 Ocean Plan water contact standards.
- Water column temperatures ranged from 12.07 to 22.72°C. The difference between surface and bottom waters ranged from 1.59 to 9.82°C.
- Chlorophyll *a* concentrations ranged from 0.44 to 6.88 µg/L.
- Nothing of sewage origin was observed at any of the kelp stations.

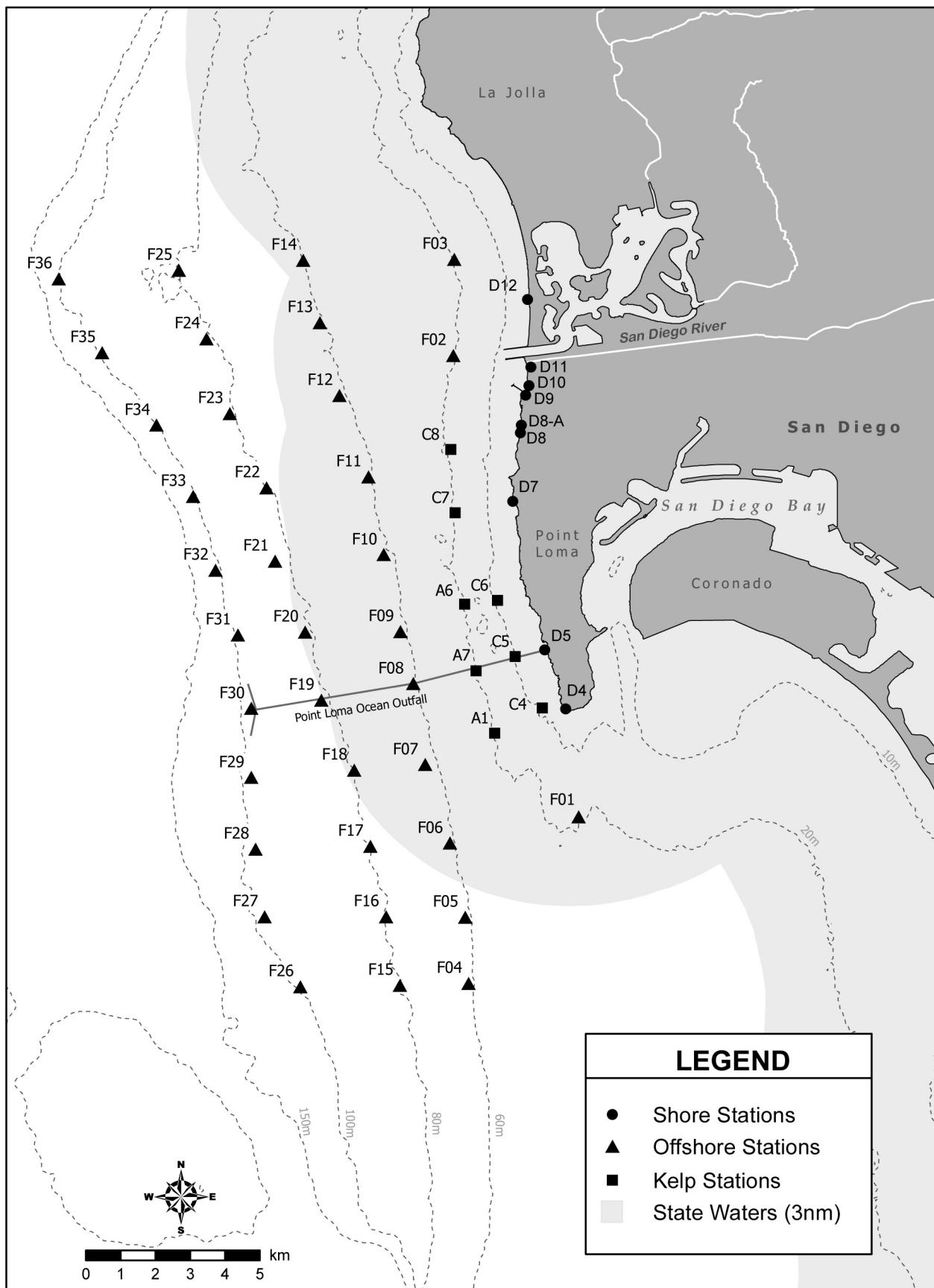
### ***Offshore Stations***

- Quarterly offshore water quality sampling was conducted on August 16, 17, and 18.
- During August, each of the 15 offshore stations located within State jurisdictional waters (i.e., F01–F03, F06–F14, F18–F20) was in compliance with the various 2015 Ocean Plan water contact standards.
- Of the remaining 21 offshore stations, elevated densities of *Enterococcus* bacteria (i.e., <104 CFU/100 mL) were detected at stations F17, F22, F23, F26, F27, F29, and F30 at depths ≥60 meters.
- During August, water column temperatures ranged from 10.17 to 23.79°C. The difference between surface and bottom waters ranged from 6.41 to 13.46°C.
- Chlorophyll *a* concentrations ranged from 0.20 to 13.6 µg/L at the offshore stations during the month.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.



## TABLES AND FIGURES





**Figure 1.1** Station Map



# Shore Stations



**Table 2.1**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >1,000 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Aug 2022	18	11	36	25	15	25	29	13
02 Aug 2022	18	11	36	25	15	25	29	13
03 Aug 2022	13	14	50	38	25	24	21	14
04 Aug 2022	13	14	50	38	25	24	21	14
05 Aug 2022	13	24	112	44	34	20	16	13
06 Aug 2022	13	24	112	44	34	20	16	13
07 Aug 2022	13	24	112	44	34	20	16	13
08 Aug 2022	13	24	112	44	34	20	16	13
09 Aug 2022	13	24	112	44	34	20	16	13
10 Aug 2022	23	23	126	60	38	32	27	14
11 Aug 2022	23	23	126	60	38	32	27	14
12 Aug 2022	24	24	112	66	51	36	29	13
13 Aug 2022	24	24	112	66	51	36	29	13
14 Aug 2022	24	24	112	66	51	36	29	13
15 Aug 2022	24	24	112	66	51	36	29	13
16 Aug 2022	24	24	112	66	51	36	29	13
17 Aug 2022	14	36	80	114	42	36	33	14
18 Aug 2022	14	36	80	114	42	36	33	14
19 Aug 2022	13	42	112	263	53	42	35	20
20 Aug 2022	13	42	112	263	53	42	35	20
21 Aug 2022	13	42	112	263	53	42	35	20
22 Aug 2022	13	42	112	263	53	42	35	20
23 Aug 2022	13	42	112	263	53	42	35	20
24 Aug 2022	14	58	80	157	70	36	31	20
25 Aug 2022	14	58	80	157	70	36	31	20
26 Aug 2022	13	75	63	168	83	42	35	20
27 Aug 2022	13	75	63	168	83	42	35	20
28 Aug 2022	13	75	63	168	83	42	35	20
29 Aug 2022	13	75	63	168	83	42	35	20
30 Aug 2022	13	75	63	168	83	42	35	20
31 Aug 2022	23	91	80	174	99	36	31	20

\* Geometric mean calculated using n<5

ns = not sampled

**Table 2.2**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >200 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Aug 2022	2	2	3	3	2	2	13	2
02 Aug 2022	2	2	3	3	2	2	13	2
03 Aug 2022	2	2	3	3	2	2	9	2
04 Aug 2022	2	2	3	3	2	2	9	2
05 Aug 2022	2	2	3	3	2	2	6	2
06 Aug 2022	2	2	3	3	2	2	6	2
07 Aug 2022	2	2	3	3	2	2	6	2
08 Aug 2022	2	2	3	3	2	2	6	2
09 Aug 2022	2	2	3	3	2	2	6	2
10 Aug 2022	2	2	3	3	2	2	6	2
11 Aug 2022	2	2	3	3	2	2	6	2
12 Aug 2022	2	2	3	3	2	2	5	2
13 Aug 2022	2	2	3	3	2	2	5	2
14 Aug 2022	2	2	3	3	2	2	5	2
15 Aug 2022	2	2	3	3	2	2	5	2
16 Aug 2022	2	2	3	3	2	2	5	2
17 Aug 2022	2	2	3	8	2	2	4	2
18 Aug 2022	2	2	3	11	2	2	4	2
19 Aug 2022	2	2	3	15	2	2	4	2
20 Aug 2022	2	2	3	15	2	2	4	2
21 Aug 2022	2	2	3	15	2	2	4	2
22 Aug 2022	2	2	3	15	2	2	4	2
23 Aug 2022	2	2	3	15	2	2	4	2
24 Aug 2022	2	2	3	11	3	3	5	2
25 Aug 2022	2	2	3	11	3	3	5	2
26 Aug 2022	2	2	3	12	3	3	5	2
27 Aug 2022	2	2	3	12	3	3	5	2
28 Aug 2022	2	2	3	12	3	3	5	2
29 Aug 2022	2	2	3	12	3	3	5	2
30 Aug 2022	2	2	3	12	3	3	5	2
31 Aug 2022	2	2	3	10	3	3	4	2

\* Geometric mean calculated using n<5

ns = not sampled

**Table 2.3**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >35 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Aug 2022	3	2	6	3	2	2	7	2
02 Aug 2022	3	2	6	3	2	2	7	2
03 Aug 2022	3	2	5	2	2	2	6	2
04 Aug 2022	3	2	5	2	2	2	6	2
05 Aug 2022	3	2	6	3	2	2	3	2
06 Aug 2022	3	2	6	3	2	2	3	2
07 Aug 2022	3	2	6	3	2	2	3	2
08 Aug 2022	3	2	6	3	2	2	3	2
09 Aug 2022	3	2	6	3	2	2	3	2
10 Aug 2022	3	2	10	3	2	3	4	2
11 Aug 2022	3	2	10	3	2	3	4	2
12 Aug 2022	2	2	9	2	2	3	3	2
13 Aug 2022	2	2	9	2	2	3	3	2
14 Aug 2022	2	2	9	2	2	3	3	2
15 Aug 2022	2	2	9	2	2	3	3	2
16 Aug 2022	2	2	9	2	2	3	3	2
17 Aug 2022	2	2	6	2	2	3	3	2
18 Aug 2022	2	2	6	2	2	3	3	2
19 Aug 2022	2	2	9	2	2	3	4	2
20 Aug 2022	2	2	9	2	2	3	4	2
21 Aug 2022	2	2	9	2	2	3	4	2
22 Aug 2022	2	2	9	2	2	3	4	2
23 Aug 2022	2	2	9	2	2	3	4	2
24 Aug 2022	2	2	6	3	3	3	5	2
25 Aug 2022	2	2	6	3	3	3	5	2
26 Aug 2022	2	2	5	3	3	3	6	2
27 Aug 2022	2	2	5	3	3	3	6	2
28 Aug 2022	2	2	5	3	3	3	6	2
29 Aug 2022	2	2	5	3	3	3	6	2
30 Aug 2022	2	2	5	3	3	3	6	2
31 Aug 2022	2	2	4	3	3	3	5	2

\* Geometric mean calculated using n<5

ns = not sampled

**Table 2.4**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
17 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
24 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
31 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.5**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
17 Aug 2022	IC	IC	IC	E	IC	IC	IC	IC
18 Aug 2022	ns	ns	ns	IC	ns	ns	ns	ns
24 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
31 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.6**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
17 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
24 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
31 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.7**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
03 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
10 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
17 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
18 Aug 2022	ns	ns	ns	ND	ns	ns	ns	ns
24 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC
31 Aug 2022	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.8**

Summary of water quality parameters at the PLOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Enter	F:T
D4	03 Aug 2022	833	4e	<2	<2	0.50
	10 Aug 2022	1157	<200	2e	<2	0.01
	17 Aug 2022	819	2e	<2	<2	1.00
	24 Aug 2022	1103	<20	<2	<2	0.10
	31 Aug 2022	853	<200	6e	<2	0.03
D5	03 Aug 2022	820	40e	<2	<2	0.05
	10 Aug 2022	1024	<20	<2	<2	0.10
	17 Aug 2022	840	<200	<2	2e	0.01
	24 Aug 2022	1045	<200	4e	4e	0.02
	31 Aug 2022	842	<200	<2	<2	0.01
D7	03 Aug 2022	900	<200	2e	2e	0.01
	10 Aug 2022	954	<200	8e	90	0.04
	17 Aug 2022	921	<20	<2	<2	0.10
	24 Aug 2022	1017	<20	<2	2e	0.10
	31 Aug 2022	1205	<200	2e	<2	0.01
D8-B	03 Aug 2022	937	<200	<2	2e	0.01
	10 Aug 2022	934	<200	2e	4e	0.01
	17 Aug 2022	946	1000	860	<2	0.86
	18 Aug 2022	1234	ns	40e	ns	ns
	24 Aug 2022	959	<20	<2	4e	0.10
	31 Aug 2022	1148	<200	4e	4e	0.02
D9	03 Aug 2022	956	<200	<2	<2	0.01
	10 Aug 2022	905	60e	2e	2e	0.03
	17 Aug 2022	1012	20e	<2	2e	0.10
	24 Aug 2022	924	<200	18e	8e	0.09
	31 Aug 2022	1130	<200	<2	<2	0.01
D10	03 Aug 2022	1010	20e	<2	<2	0.10
	10 Aug 2022	846	<200	2e	18e	0.01
	17 Aug 2022	1027	40e	<2	<2	0.05
	24 Aug 2022	902	<20	16e	2e	0.80
	31 Aug 2022	1123	<20	<2	<2	0.10
D11	03 Aug 2022	1022	6e	<2	2e	0.33
	10 Aug 2022	832	<200	6e	10e	0.03
	17 Aug 2022	1041	60e	2e	4e	0.03
	24 Aug 2022	842	<20	26e	22e	1.30
	31 Aug 2022	1047	20e	2e	<2	0.10
D12	03 Aug 2022	1109	<20	4e	<2	0.20
	10 Aug 2022	800	20e	2e	2e	0.10
	17 Aug 2022	1112	<20	<2	<2	0.10
	24 Aug 2022	816	<20	<2	<2	0.10
	31 Aug 2022	955	<20	<2	2e	0.10

ns = not sampled

ND = no data

**Comments**

Station	Date	Depth	Parameter	Comments
D8-B	18 Aug 2022			Resample

**Table 2.9**

Summary of visual observations made during the month for each PLOO shore station by sample date.

Station	Date	Parameter	Value
D4	03 Aug 2022	Arrive Time	833
D4	03 Aug 2022	Weather	Overcast
D4	03 Aug 2022	Wind Speed (kts)	3.6
D4	03 Aug 2022	Wind Dir	NW
D4	03 Aug 2022	Animal Life	
D4	03 Aug 2022	Floatables	None
D4	03 Aug 2022	Water Color	Green
D4	03 Aug 2022	Current Direction	N
D4	03 Aug 2022	Water Temp (C)	21.3
D4	03 Aug 2022	Wave Height Low (ft)	2
D4	03 Aug 2022	High Tide (ft)	4.27
D4	03 Aug 2022	High Tide Time	30
D4	03 Aug 2022	Low Tide (ft)	0.9
D4	03 Aug 2022	Low Tide Time	709
D4	03 Aug 2022	Comments	Water clear; Surfer/Paddle boarder-5; Boater/Kayaker-3; Trash-1; Kelp; Seagrass; Algae
D4	10 Aug 2022	Arrive Time	1157
D4	10 Aug 2022	Weather	Sunny
D4	10 Aug 2022	Wind Speed (kts)	73
D4	10 Aug 2022	Wind Dir	N
D4	10 Aug 2022	Animal Life	
D4	10 Aug 2022	Floatables	Foam
D4	10 Aug 2022	Water Color	Green
D4	10 Aug 2022	Current Direction	S
D4	10 Aug 2022	Water Temp (C)	24.1
D4	10 Aug 2022	Wave Height Low (ft)	1
D4	10 Aug 2022	High Tide (ft)	4.12
D4	10 Aug 2022	High Tide Time	921
D4	10 Aug 2022	Low Tide (ft)	-1.26
D4	10 Aug 2022	Low Tide Time	300
D4	10 Aug 2022	Comments	Kelp; Algae; Seagrass
D4	17 Aug 2022	Arrive Time	819
D4	17 Aug 2022	Weather	Cloudy
D4	17 Aug 2022	Wind Speed (kts)	2.1
D4	17 Aug 2022	Wind Dir	NW
D4	17 Aug 2022	Animal Life	Bird-2; Pelican-2
D4	17 Aug 2022	Floatables	None
D4	17 Aug 2022	Water Color	Green
D4	17 Aug 2022	Current Direction	N
D4	17 Aug 2022	Water Temp (C)	22.6
D4	17 Aug 2022	Wave Height Low (ft)	1
D4	17 Aug 2022	High Tide (ft)	3.92
D4	17 Aug 2022	High Tide Time	119
D4	17 Aug 2022	Low Tide (ft)	1.41
D4	17 Aug 2022	Low Tide Time	724
D4	17 Aug 2022	Comments	Water clear; Boater/Kayaker-3; Trash-1; Kelp; Seagrass; Algae; Debris
D4	24 Aug 2022	Arrive Time	1103
D4	24 Aug 2022	Weather	Cloudy
D4	24 Aug 2022	Wind Speed (kts)	5.8
D4	24 Aug 2022	Wind Dir	SW
D4	24 Aug 2022	Animal Life	Seagull-3
D4	24 Aug 2022	Floatables	Foam

Station	Date	Parameter	Value
D4	24 Aug 2022	Water Color	Green
D4	24 Aug 2022	Current Direction	N
D4	24 Aug 2022	Water Temp (C)	22.2
D4	24 Aug 2022	Wave Height Low (ft)	1
D4	24 Aug 2022	High Tide (ft)	3.99
D4	24 Aug 2022	High Tide Time	915
D4	24 Aug 2022	Low Tide (ft)	-0.12
D4	24 Aug 2022	Low Tide Time	251
D4	24 Aug 2022	Comments	Kelp; Seagrass; Algae
D4	31 Aug 2022	Arrive Time	853
D4	31 Aug 2022	Weather	Sunny
D4	31 Aug 2022	Wind Speed (kts)	2.7
D4	31 Aug 2022	Wind Dir	NW
D4	31 Aug 2022	Animal Life	
D4	31 Aug 2022	Floatables	Foam
D4	31 Aug 2022	Water Color	Green
D4	31 Aug 2022	Current Direction	S
D4	31 Aug 2022	Water Temp (C)	22.3
D4	31 Aug 2022	Wave Height Low (ft)	1
D4	31 Aug 2022	High Tide (ft)	5
D4	31 Aug 2022	High Tide Time	1206
D4	31 Aug 2022	Low Tide (ft)	0.95
D4	31 Aug 2022	Low Tide Time	548
D4	31 Aug 2022	Comments	Kelp; Seagrass; Algae
D5	03 Aug 2022	Arrive Time	820
D5	03 Aug 2022	Weather	Overcast
D5	03 Aug 2022	Wind Speed (kts)	1.3
D5	03 Aug 2022	Wind Dir	NW
D5	03 Aug 2022	Animal Life	Bird-2
D5	03 Aug 2022	Floatables	None
D5	03 Aug 2022	Water Color	Green
D5	03 Aug 2022	Current Direction	N
D5	03 Aug 2022	Water Temp (C)	21.6
D5	03 Aug 2022	Wave Height Low (ft)	2
D5	03 Aug 2022	High Tide (ft)	4.27
D5	03 Aug 2022	High Tide Time	30
D5	03 Aug 2022	Low Tide (ft)	0.9
D5	03 Aug 2022	Low Tide Time	709
D5	03 Aug 2022	Comments	Kelp; Seagrass; Algae
D5	10 Aug 2022	Arrive Time	1024
D5	10 Aug 2022	Weather	Sunny
D5	10 Aug 2022	Wind Speed (kts)	2.9
D5	10 Aug 2022	Wind Dir	N
D5	10 Aug 2022	Animal Life	
D5	10 Aug 2022	Floatables	Foam
D5	10 Aug 2022	Water Color	Green
D5	10 Aug 2022	Current Direction	N
D5	10 Aug 2022	Water Temp (C)	23.2
D5	10 Aug 2022	Wave Height Low (ft)	1
D5	10 Aug 2022	High Tide (ft)	4.12
D5	10 Aug 2022	High Tide Time	921
D5	10 Aug 2022	Low Tide (ft)	-1.26
D5	10 Aug 2022	Low Tide Time	300
D5	10 Aug 2022	Comments	Seagrass; Algae; Kelp
D5	17 Aug 2022	Arrive Time	840
D5	17 Aug 2022	Weather	Cloudy
D5	17 Aug 2022	Wind Speed (kts)	0

Station	Date	Parameter	Value
D5	17 Aug 2022	Wind Dir	
D5	17 Aug 2022	Animal Life	Pelican-1; Seagull-2
D5	17 Aug 2022	Floatables	Foam
D5	17 Aug 2022	Water Color	Green
D5	17 Aug 2022	Current Direction	N
D5	17 Aug 2022	Water Temp (C)	23.4
D5	17 Aug 2022	Wave Height Low (ft)	2
D5	17 Aug 2022	High Tide (ft)	3.92
D5	17 Aug 2022	High Tide Time	119
D5	17 Aug 2022	Low Tide (ft)	1.41
D5	17 Aug 2022	Low Tide Time	724
D5	17 Aug 2022	Comments	Water turbid; Boater/Kayaker-1; Trash-1; Kelp; Seagrass; Algae
D5	24 Aug 2022	Arrive Time	1045
D5	24 Aug 2022	Weather	Cloudy
D5	24 Aug 2022	Wind Speed (kts)	4.6
D5	24 Aug 2022	Wind Dir	S
D5	24 Aug 2022	Animal Life	
D5	24 Aug 2022	Floatables	Foam
D5	24 Aug 2022	Water Color	Green
D5	24 Aug 2022	Current Direction	N
D5	24 Aug 2022	Water Temp (C)	23
D5	24 Aug 2022	Wave Height Low (ft)	2
D5	24 Aug 2022	High Tide (ft)	3.99
D5	24 Aug 2022	High Tide Time	915
D5	24 Aug 2022	Low Tide (ft)	-0.12
D5	24 Aug 2022	Low Tide Time	251
D5	24 Aug 2022	Comments	Seagrass; Algae; Kelp
D5	31 Aug 2022	Arrive Time	842
D5	31 Aug 2022	Weather	Sunny
D5	31 Aug 2022	Wind Speed (kts)	4.5
D5	31 Aug 2022	Wind Dir	NW
D5	31 Aug 2022	Animal Life	
D5	31 Aug 2022	Floatables	None
D5	31 Aug 2022	Water Color	Brown
D5	31 Aug 2022	Current Direction	S
D5	31 Aug 2022	Water Temp (C)	22.4
D5	31 Aug 2022	Wave Height Low (ft)	0
D5	31 Aug 2022	High Tide (ft)	5
D5	31 Aug 2022	High Tide Time	1206
D5	31 Aug 2022	Low Tide (ft)	0.95
D5	31 Aug 2022	Low Tide Time	548
D5	31 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
D7	03 Aug 2022	Arrive Time	900
D7	03 Aug 2022	Weather	Cloudy
D7	03 Aug 2022	Wind Speed (kts)	3.3
D7	03 Aug 2022	Wind Dir	NW
D7	03 Aug 2022	Animal Life	
D7	03 Aug 2022	Floatables	None
D7	03 Aug 2022	Water Color	Green
D7	03 Aug 2022	Current Direction	N
D7	03 Aug 2022	Water Temp (C)	22.2
D7	03 Aug 2022	Wave Height Low (ft)	3
D7	03 Aug 2022	High Tide (ft)	4.27
D7	03 Aug 2022	High Tide Time	30
D7	03 Aug 2022	Low Tide (ft)	0.9
D7	03 Aug 2022	Low Tide Time	709

Station	Date	Parameter	Value
D7	03 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-35; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
D7	10 Aug 2022	Arrive Time	954
D7	10 Aug 2022	Weather	Sunny
D7	10 Aug 2022	Wind Speed (kts)	1.3
D7	10 Aug 2022	Wind Dir	W
D7	10 Aug 2022	Animal Life	
D7	10 Aug 2022	Floatables	Foam
D7	10 Aug 2022	Water Color	Green
D7	10 Aug 2022	Current Direction	S
D7	10 Aug 2022	Water Temp (C)	23.4
D7	10 Aug 2022	Wave Height Low (ft)	1
D7	10 Aug 2022	High Tide (ft)	4.12
D7	10 Aug 2022	High Tide Time	921
D7	10 Aug 2022	Low Tide (ft)	-1.26
D7	10 Aug 2022	Low Tide Time	300
D7	10 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-5
D7	17 Aug 2022	Arrive Time	921
D7	17 Aug 2022	Weather	Cloudy
D7	17 Aug 2022	Wind Speed (kts)	2.5
D7	17 Aug 2022	Wind Dir	NW
D7	17 Aug 2022	Animal Life	Bird-3
D7	17 Aug 2022	Floatables	None
D7	17 Aug 2022	Water Color	Green
D7	17 Aug 2022	Current Direction	N
D7	17 Aug 2022	Water Temp (C)	23.9
D7	17 Aug 2022	Wave Height Low (ft)	2
D7	17 Aug 2022	High Tide (ft)	3.92
D7	17 Aug 2022	High Tide Time	119
D7	17 Aug 2022	Low Tide (ft)	1.41
D7	17 Aug 2022	Low Tide Time	724
D7	17 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Kelp; Algae; Seagrass; Person/Walker/Jogger-6
D7	24 Aug 2022	Arrive Time	1017
D7	24 Aug 2022	Weather	Cloudy
D7	24 Aug 2022	Wind Speed (kts)	5.2
D7	24 Aug 2022	Wind Dir	SW
D7	24 Aug 2022	Animal Life	
D7	24 Aug 2022	Floatables	Foam
D7	24 Aug 2022	Water Color	Green
D7	24 Aug 2022	Current Direction	N
D7	24 Aug 2022	Water Temp (C)	23.2
D7	24 Aug 2022	Wave Height Low (ft)	3
D7	24 Aug 2022	High Tide (ft)	3.99
D7	24 Aug 2022	High Tide Time	915
D7	24 Aug 2022	Low Tide (ft)	-0.12
D7	24 Aug 2022	Low Tide Time	251
D7	24 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-10; Trash-1; Algae; Seagrass; Kelp
D7	31 Aug 2022	Arrive Time	1205
D7	31 Aug 2022	Weather	Sunny
D7	31 Aug 2022	Wind Speed (kts)	4.7
D7	31 Aug 2022	Wind Dir	NW
D7	31 Aug 2022	Animal Life	Dog-13
D7	31 Aug 2022	Floatables	Foam
D7	31 Aug 2022	Water Color	Brown

Station	Date	Parameter	Value
D7	31 Aug 2022	Current Direction	S
D7	31 Aug 2022	Water Temp (C)	21.9
D7	31 Aug 2022	Wave Height Low (ft)	2
D7	31 Aug 2022	High Tide (ft)	5
D7	31 Aug 2022	High Tide Time	1206
D7	31 Aug 2022	Low Tide (ft)	0.95
D7	31 Aug 2022	Low Tide Time	548
D7	31 Aug 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-3
D8-B	03 Aug 2022	Arrive Time	937
D8-B	03 Aug 2022	Weather	Cloudy
D8-B	03 Aug 2022	Wind Speed (kts)	3.6
D8-B	03 Aug 2022	Wind Dir	W
D8-B	03 Aug 2022	Animal Life	
D8-B	03 Aug 2022	Floatables	None
D8-B	03 Aug 2022	Water Color	Green
D8-B	03 Aug 2022	Current Direction	S
D8-B	03 Aug 2022	Water Temp (C)	21.8
D8-B	03 Aug 2022	Wave Height Low (ft)	3
D8-B	03 Aug 2022	High Tide (ft)	4.27
D8-B	03 Aug 2022	High Tide Time	30
D8-B	03 Aug 2022	Low Tide (ft)	0.9
D8-B	03 Aug 2022	Low Tide Time	709
D8-B	03 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-1; Seagrass; Algae; Person/Walker/Jogger-1
D8-B	10 Aug 2022	Arrive Time	934
D8-B	10 Aug 2022	Weather	Sunny
D8-B	10 Aug 2022	Wind Speed (kts)	2.3
D8-B	10 Aug 2022	Wind Dir	SW
D8-B	10 Aug 2022	Animal Life	
D8-B	10 Aug 2022	Floatables	Foam
D8-B	10 Aug 2022	Water Color	Green
D8-B	10 Aug 2022	Current Direction	S
D8-B	10 Aug 2022	Water Temp (C)	23.3
D8-B	10 Aug 2022	Wave Height Low (ft)	1
D8-B	10 Aug 2022	High Tide (ft)	4.12
D8-B	10 Aug 2022	High Tide Time	921
D8-B	10 Aug 2022	Low Tide (ft)	-1.26
D8-B	10 Aug 2022	Low Tide Time	300
D8-B	10 Aug 2022	Comments	Seagrass; Kelp; Algae
D8-B	17 Aug 2022	Arrive Time	946
D8-B	17 Aug 2022	Weather	Cloudy
D8-B	17 Aug 2022	Wind Speed (kts)	1.9
D8-B	17 Aug 2022	Wind Dir	NW
D8-B	17 Aug 2022	Animal Life	
D8-B	17 Aug 2022	Floatables	None
D8-B	17 Aug 2022	Water Color	Green
D8-B	17 Aug 2022	Current Direction	N
D8-B	17 Aug 2022	Water Temp (C)	23.1
D8-B	17 Aug 2022	Wave Height Low (ft)	3
D8-B	17 Aug 2022	High Tide (ft)	3.92
D8-B	17 Aug 2022	High Tide Time	119
D8-B	17 Aug 2022	Low Tide (ft)	1.41
D8-B	17 Aug 2022	Low Tide Time	724
D8-B	17 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-4; Trash-1; Algae; Kelp
D8-B	18 Aug 2022	Arrive Time	1234
D8-B	18 Aug 2022	Weather	Partly cloudy

Station	Date	Parameter	Value
D8-B	18 Aug 2022	Wind Speed (kts)	6.4
D8-B	18 Aug 2022	Wind Dir	W
D8-B	18 Aug 2022	Animal Life	
D8-B	18 Aug 2022	Floatables	Foam
D8-B	18 Aug 2022	Water Color	Green
D8-B	18 Aug 2022	Current Direction	S
D8-B	18 Aug 2022	Water Temp (C)	25.3
D8-B	18 Aug 2022	Wave Height Low (ft)	3
D8-B	18 Aug 2022	High Tide (ft)	3.22
D8-B	18 Aug 2022	High Tide Time	239
D8-B	18 Aug 2022	Low Tide (ft)	2.06
D8-B	18 Aug 2022	Low Tide Time	803
D8-B	18 Aug 2022	Comments	Resample; Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-4
D8-B	24 Aug 2022	Arrive Time	959
D8-B	24 Aug 2022	Weather	Cloudy
D8-B	24 Aug 2022	Wind Speed (kts)	5
D8-B	24 Aug 2022	Wind Dir	SW
D8-B	24 Aug 2022	Animal Life	Bird-4
D8-B	24 Aug 2022	Floatables	Foam
D8-B	24 Aug 2022	Water Color	Brown
D8-B	24 Aug 2022	Current Direction	N
D8-B	24 Aug 2022	Water Temp (C)	22.5
D8-B	24 Aug 2022	Wave Height Low (ft)	3
D8-B	24 Aug 2022	High Tide (ft)	3.99
D8-B	24 Aug 2022	High Tide Time	915
D8-B	24 Aug 2022	Low Tide (ft)	-0.12
D8-B	24 Aug 2022	Low Tide Time	251
D8-B	24 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Algae
D8-B	31 Aug 2022	Arrive Time	1148
D8-B	31 Aug 2022	Weather	Sunny
D8-B	31 Aug 2022	Wind Speed (kts)	1.1
D8-B	31 Aug 2022	Wind Dir	SW
D8-B	31 Aug 2022	Animal Life	
D8-B	31 Aug 2022	Floatables	Foam
D8-B	31 Aug 2022	Water Color	Brown
D8-B	31 Aug 2022	Current Direction	S
D8-B	31 Aug 2022	Water Temp (C)	21.1
D8-B	31 Aug 2022	Wave Height Low (ft)	2
D8-B	31 Aug 2022	High Tide (ft)	5
D8-B	31 Aug 2022	High Tide Time	1206
D8-B	31 Aug 2022	Low Tide (ft)	0.95
D8-B	31 Aug 2022	Low Tide Time	548
D8-B	31 Aug 2022	Comments	Water turbid; Trash-2; Algae; Kelp; Person/Walker/Jogger-1
D9	03 Aug 2022	Arrive Time	956
D9	03 Aug 2022	Weather	Partly cloudy
D9	03 Aug 2022	Wind Speed (kts)	3.3
D9	03 Aug 2022	Wind Dir	W
D9	03 Aug 2022	Animal Life	Bird-1
D9	03 Aug 2022	Floatables	Foam
D9	03 Aug 2022	Water Color	Brown
D9	03 Aug 2022	Current Direction	N
D9	03 Aug 2022	Water Temp (C)	21.5
D9	03 Aug 2022	Wave Height Low (ft)	3
D9	03 Aug 2022	High Tide (ft)	4.27
D9	03 Aug 2022	High Tide Time	30
D9	03 Aug 2022	Low Tide (ft)	0.9

Station	Date	Parameter	Value
D9	03 Aug 2022	Low Tide Time	709
D9	03 Aug 2022	Comments	Water turbid; Trash-1; Algae; Seagrass; Person/Walker/Jogger-2
D9	10 Aug 2022	Arrive Time	905
D9	10 Aug 2022	Weather	Sunny
D9	10 Aug 2022	Wind Speed (kts)	1.5
D9	10 Aug 2022	Wind Dir	W
D9	10 Aug 2022	Animal Life	
D9	10 Aug 2022	Floatables	Foam
D9	10 Aug 2022	Water Color	Green
D9	10 Aug 2022	Current Direction	N
D9	10 Aug 2022	Water Temp (C)	23.1
D9	10 Aug 2022	Wave Height Low (ft)	1
D9	10 Aug 2022	High Tide (ft)	4.12
D9	10 Aug 2022	High Tide Time	921
D9	10 Aug 2022	Low Tide (ft)	-1.26
D9	10 Aug 2022	Low Tide Time	300
D9	10 Aug 2022	Comments	Water clear; Trash-1; Algae; Seagrass; Kelp; Person/Walker/Jogger-3
D9	17 Aug 2022	Arrive Time	1012
D9	17 Aug 2022	Weather	Cloudy
D9	17 Aug 2022	Wind Speed (kts)	2.5
D9	17 Aug 2022	Wind Dir	W
D9	17 Aug 2022	Animal Life	Seagull-10
D9	17 Aug 2022	Floatables	None
D9	17 Aug 2022	Water Color	Green
D9	17 Aug 2022	Current Direction	N
D9	17 Aug 2022	Water Temp (C)	23.3
D9	17 Aug 2022	Wave Height Low (ft)	2
D9	17 Aug 2022	High Tide (ft)	3.92
D9	17 Aug 2022	High Tide Time	119
D9	17 Aug 2022	Low Tide (ft)	1.41
D9	17 Aug 2022	Low Tide Time	724
D9	17 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-3; Trash-1; Kelp; Algae; Person/Walker/Jogger-1
D9	24 Aug 2022	Arrive Time	924
D9	24 Aug 2022	Weather	Cloudy
D9	24 Aug 2022	Wind Speed (kts)	1.7
D9	24 Aug 2022	Wind Dir	S
D9	24 Aug 2022	Animal Life	Dog-1
D9	24 Aug 2022	Floatables	Foam
D9	24 Aug 2022	Water Color	Green
D9	24 Aug 2022	Current Direction	N
D9	24 Aug 2022	Water Temp (C)	23
D9	24 Aug 2022	Wave Height Low (ft)	3
D9	24 Aug 2022	High Tide (ft)	3.99
D9	24 Aug 2022	High Tide Time	915
D9	24 Aug 2022	Low Tide (ft)	-0.12
D9	24 Aug 2022	Low Tide Time	251
D9	24 Aug 2022	Comments	Water turbid; Trash-2; Seagrass; Algae; Kelp; Person/Walker/Jogger-3
D9	31 Aug 2022	Arrive Time	1138
D9	31 Aug 2022	Weather	Sunny
D9	31 Aug 2022	Wind Speed (kts)	1.5
D9	31 Aug 2022	Wind Dir	W
D9	31 Aug 2022	Animal Life	Seagull-1
D9	31 Aug 2022	Floatables	Foam

Station	Date	Parameter	Value
D9	31 Aug 2022	Water Color	Green
D9	31 Aug 2022	Current Direction	S
D9	31 Aug 2022	Water Temp (C)	20.8
D9	31 Aug 2022	Wave Height Low (ft)	3
D9	31 Aug 2022	High Tide (ft)	5
D9	31 Aug 2022	High Tide Time	1206
D9	31 Aug 2022	Low Tide (ft)	0.95
D9	31 Aug 2022	Low Tide Time	548
D9	31 Aug 2022	Comments	Water turbid; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-5; Trash-1; Kelp; Algae; Person/Walker/Jogger-2
D10	03 Aug 2022	Arrive Time	1010
D10	03 Aug 2022	Weather	Sunny
D10	03 Aug 2022	Wind Speed (kts)	3.3
D10	03 Aug 2022	Wind Dir	W
D10	03 Aug 2022	Animal Life	Seagull-1
D10	03 Aug 2022	Floatables	None
D10	03 Aug 2022	Water Color	Green
D10	03 Aug 2022	Current Direction	N
D10	03 Aug 2022	Water Temp (C)	22.1
D10	03 Aug 2022	Wave Height Low (ft)	4
D10	03 Aug 2022	High Tide (ft)	4.27
D10	03 Aug 2022	High Tide Time	30
D10	03 Aug 2022	Low Tide (ft)	0.9
D10	03 Aug 2022	Low Tide Time	709
D10	03 Aug 2022	Comments	Water turbid; Boogie boarder/Swimmer-5; Surfer/Paddle boarder-36; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-39
D10	10 Aug 2022	Arrive Time	846
D10	10 Aug 2022	Weather	Sunny
D10	10 Aug 2022	Wind Speed (kts)	1.5
D10	10 Aug 2022	Wind Dir	W
D10	10 Aug 2022	Animal Life	Bird-60
D10	10 Aug 2022	Floatables	Foam
D10	10 Aug 2022	Water Color	Green
D10	10 Aug 2022	Current Direction	N
D10	10 Aug 2022	Water Temp (C)	23
D10	10 Aug 2022	Wave Height Low (ft)	2
D10	10 Aug 2022	High Tide (ft)	4.12
D10	10 Aug 2022	High Tide Time	921
D10	10 Aug 2022	Low Tide (ft)	-1.26
D10	10 Aug 2022	Low Tide Time	300
D10	10 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-2; Surfer/Paddle boarder-12; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-35
D10	17 Aug 2022	Arrive Time	1027
D10	17 Aug 2022	Weather	Cloudy
D10	17 Aug 2022	Wind Speed (kts)	2.9
D10	17 Aug 2022	Wind Dir	W
D10	17 Aug 2022	Animal Life	Seagull-2
D10	17 Aug 2022	Floatables	None
D10	17 Aug 2022	Water Color	Green
D10	17 Aug 2022	Current Direction	N
D10	17 Aug 2022	Water Temp (C)	23.9
D10	17 Aug 2022	Wave Height Low (ft)	3
D10	17 Aug 2022	High Tide (ft)	3.92
D10	17 Aug 2022	High Tide Time	119
D10	17 Aug 2022	Low Tide (ft)	1.41
D10	17 Aug 2022	Low Tide Time	724

Station	Date	Parameter	Value
D10	17 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-55; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-32
D10	24 Aug 2022	Arrive Time	902
D10	24 Aug 2022	Weather	Cloudy
D10	24 Aug 2022	Wind Speed (kts)	2.5
D10	24 Aug 2022	Wind Dir	SW
D10	24 Aug 2022	Animal Life	Seagull-2
D10	24 Aug 2022	Floatables	Foam
D10	24 Aug 2022	Water Color	Green
D10	24 Aug 2022	Current Direction	N
D10	24 Aug 2022	Water Temp (C)	22.7
D10	24 Aug 2022	Wave Height Low (ft)	3
D10	24 Aug 2022	High Tide (ft)	3.99
D10	24 Aug 2022	High Tide Time	915
D10	24 Aug 2022	Low Tide (ft)	-0.12
D10	24 Aug 2022	Low Tide Time	251
D10	24 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-39; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-15
D10	31 Aug 2022	Arrive Time	1123
D10	31 Aug 2022	Weather	Sunny
D10	31 Aug 2022	Wind Speed (kts)	3.92
D10	31 Aug 2022	Wind Dir	W
D10	31 Aug 2022	Animal Life	
D10	31 Aug 2022	Floatables	Foam
D10	31 Aug 2022	Water Color	Green
D10	31 Aug 2022	Current Direction	S
D10	31 Aug 2022	Water Temp (C)	21.2
D10	31 Aug 2022	Wave Height Low (ft)	2
D10	31 Aug 2022	High Tide (ft)	5
D10	31 Aug 2022	High Tide Time	1206
D10	31 Aug 2022	Low Tide (ft)	0.95
D10	31 Aug 2022	Low Tide Time	548
D10	31 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-6; Surfer/Paddle boarder-25; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-45
D11	03 Aug 2022	Arrive Time	1022
D11	03 Aug 2022	Weather	Sunny
D11	03 Aug 2022	Wind Speed (kts)	3.8
D11	03 Aug 2022	Wind Dir	W
D11	03 Aug 2022	Animal Life	
D11	03 Aug 2022	Floatables	None
D11	03 Aug 2022	Water Color	Green
D11	03 Aug 2022	Current Direction	N
D11	03 Aug 2022	Water Temp (C)	19.6
D11	03 Aug 2022	Wave Height Low (ft)	3
D11	03 Aug 2022	High Tide (ft)	4.27
D11	03 Aug 2022	High Tide Time	30
D11	03 Aug 2022	Low Tide (ft)	0.9
D11	03 Aug 2022	Low Tide Time	709
D11	03 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-2; Surfer/Paddle boarder-25; Fisherman-1; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-17
D11	10 Aug 2022	Arrive Time	832
D11	10 Aug 2022	Weather	Sunny
D11	10 Aug 2022	Wind Speed (kts)	2.7
D11	10 Aug 2022	Wind Dir	W
D11	10 Aug 2022	Animal Life	

Station	Date	Parameter	Value
D11	10 Aug 2022	Floating Debris	Foam
D11	10 Aug 2022	Water Color	Green
D11	10 Aug 2022	Current Direction	S
D11	10 Aug 2022	Water Temp (C)	22.8
D11	10 Aug 2022	Wave Height Low (ft)	1
D11	10 Aug 2022	High Tide (ft)	4.12
D11	10 Aug 2022	High Tide Time	921
D11	10 Aug 2022	Low Tide (ft)	-1.26
D11	10 Aug 2022	Low Tide Time	300
D11	10 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-3; Surfer/Paddle boarder-12; Trash-1; Seagrass; Algae; Kelp; Person/Walker/Jogger-3
D11	17 Aug 2022	Arrive Time	1041
D11	17 Aug 2022	Weather	Cloudy
D11	17 Aug 2022	Wind Speed (kts)	2.7
D11	17 Aug 2022	Wind Dir	NW
D11	17 Aug 2022	Animal Life	Bird-1
D11	17 Aug 2022	Floating Debris	Foam
D11	17 Aug 2022	Water Color	Green
D11	17 Aug 2022	Current Direction	N
D11	17 Aug 2022	Water Temp (C)	23.6
D11	17 Aug 2022	Wave Height Low (ft)	3
D11	17 Aug 2022	High Tide (ft)	3.92
D11	17 Aug 2022	High Tide Time	119
D11	17 Aug 2022	Low Tide (ft)	1.41
D11	17 Aug 2022	Low Tide Time	724
D11	17 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-5; Surfer/Paddle boarder-31; Trash-1; Kelp; Algae; Seagrass; Person/Walker/Jogger-14
D11	24 Aug 2022	Arrive Time	842
D11	24 Aug 2022	Weather	Cloudy
D11	24 Aug 2022	Wind Speed (kts)	5
D11	24 Aug 2022	Wind Dir	SW
D11	24 Aug 2022	Animal Life	Dog-2; Pelican-3
D11	24 Aug 2022	Floating Debris	Foam
D11	24 Aug 2022	Water Color	Green
D11	24 Aug 2022	Current Direction	N
D11	24 Aug 2022	Water Temp (C)	23.3
D11	24 Aug 2022	Wave Height Low (ft)	3
D11	24 Aug 2022	High Tide (ft)	3.99
D11	24 Aug 2022	High Tide Time	915
D11	24 Aug 2022	Low Tide (ft)	-0.12
D11	24 Aug 2022	Low Tide Time	251
D11	24 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-13; Trash-1; Seagrass; Kelp; Algae; Person/Walker/Jogger-4
D11	31 Aug 2022	Arrive Time	1017
D11	31 Aug 2022	Weather	Sunny
D11	31 Aug 2022	Wind Speed (kts)	3.6
D11	31 Aug 2022	Wind Dir	W
D11	31 Aug 2022	Animal Life	Bird-1; Dog-1; Seagull-1
D11	31 Aug 2022	Floating Debris	Foam
D11	31 Aug 2022	Water Color	Green
D11	31 Aug 2022	Current Direction	S
D11	31 Aug 2022	Water Temp (C)	21.3
D11	31 Aug 2022	Wave Height Low (ft)	2
D11	31 Aug 2022	High Tide (ft)	5
D11	31 Aug 2022	High Tide Time	1206
D11	31 Aug 2022	Low Tide (ft)	0.95

Station	Date	Parameter	Value
D11	31 Aug 2022	Low Tide Time	548
D11	31 Aug 2022	Comments	Water turbid; Surfer/Paddle boarder-20; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-10
D12	03 Aug 2022	Arrive Time	1109
D12	03 Aug 2022	Weather	Sunny
D12	03 Aug 2022	Wind Speed (kts)	5.8
D12	03 Aug 2022	Wind Dir	W
D12	03 Aug 2022	Animal Life	Bird-1
D12	03 Aug 2022	Floatables	None
D12	03 Aug 2022	Water Color	Green
D12	03 Aug 2022	Current Direction	N
D12	03 Aug 2022	Water Temp (C)	22.8
D12	03 Aug 2022	Wave Height Low (ft)	3
D12	03 Aug 2022	High Tide (ft)	4.27
D12	03 Aug 2022	High Tide Time	30
D12	03 Aug 2022	Low Tide (ft)	0.9
D12	03 Aug 2022	Low Tide Time	709
D12	03 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-22; Surfer/Paddle boarder-4; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-48
D12	10 Aug 2022	Arrive Time	800
D12	10 Aug 2022	Weather	Sunny
D12	10 Aug 2022	Wind Speed (kts)	2.7
D12	10 Aug 2022	Wind Dir	W
D12	10 Aug 2022	Animal Life	Bird-1
D12	10 Aug 2022	Floatables	None
D12	10 Aug 2022	Water Color	Blue
D12	10 Aug 2022	Current Direction	S
D12	10 Aug 2022	Water Temp (C)	23
D12	10 Aug 2022	Wave Height Low (ft)	1
D12	10 Aug 2022	High Tide (ft)	4.12
D12	10 Aug 2022	High Tide Time	921
D12	10 Aug 2022	Low Tide (ft)	-1.26
D12	10 Aug 2022	Low Tide Time	300
D12	10 Aug 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-2
D12	17 Aug 2022	Arrive Time	1112
D12	17 Aug 2022	Weather	Sunny
D12	17 Aug 2022	Wind Speed (kts)	4.4
D12	17 Aug 2022	Wind Dir	W
D12	17 Aug 2022	Animal Life	Bird-3
D12	17 Aug 2022	Floatables	None
D12	17 Aug 2022	Water Color	Green
D12	17 Aug 2022	Current Direction	N
D12	17 Aug 2022	Water Temp (C)	24.5
D12	17 Aug 2022	Wave Height Low (ft)	3
D12	17 Aug 2022	High Tide (ft)	3.92
D12	17 Aug 2022	High Tide Time	119
D12	17 Aug 2022	Low Tide (ft)	1.41
D12	17 Aug 2022	Low Tide Time	724
D12	17 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-51; Surfer/Paddle boarder-4; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-63
D12	24 Aug 2022	Arrive Time	816
D12	24 Aug 2022	Weather	Cloudy
D12	24 Aug 2022	Wind Speed (kts)	2.7
D12	24 Aug 2022	Wind Dir	SW

Station	Date	Parameter	Value
D12	24 Aug 2022	Animal Life	Bird-3
D12	24 Aug 2022	Floatables	Foam
D12	24 Aug 2022	Water Color	Blue
D12	24 Aug 2022	Current Direction	N
D12	24 Aug 2022	Water Temp (C)	23.6
D12	24 Aug 2022	Wave Height Low (ft)	4
D12	24 Aug 2022	High Tide (ft)	3.99
D12	24 Aug 2022	High Tide Time	915
D12	24 Aug 2022	Low Tide (ft)	-0.12
D12	24 Aug 2022	Low Tide Time	251
D12	24 Aug 2022	Comments	Water clear; Surfer/Paddle boarder-10; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-5
D12	31 Aug 2022	Arrive Time	955
D12	31 Aug 2022	Weather	Sunny
D12	31 Aug 2022	Wind Speed (kts)	4.1
D12	31 Aug 2022	Wind Dir	W
D12	31 Aug 2022	Animal Life	
D12	31 Aug 2022	Floatables	None
D12	31 Aug 2022	Water Color	Green
D12	31 Aug 2022	Current Direction	N
D12	31 Aug 2022	Water Temp (C)	21.2
D12	31 Aug 2022	Wave Height Low (ft)	2
D12	31 Aug 2022	High Tide (ft)	5
D12	31 Aug 2022	High Tide Time	1206
D12	31 Aug 2022	Low Tide (ft)	0.95
D12	31 Aug 2022	Low Tide Time	548
D12	31 Aug 2022	Comments	Water clear; Boogie boarder/Swimmer-3; Surfer/Paddle boarder-1; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-13



# Kelp Stations



**Table 3.1**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >1,000 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Aug 2022	4	5	3	5	5	5	2	2
02 Aug 2022	3	4	2	4	5	4	2	2
03 Aug 2022	3	4	2	4	5	4	2	2
04 Aug 2022	3	5	2	5	7	5	2	2
05 Aug 2022	3	5	2	5	7	5	2	2
06 Aug 2022	3	5	2	5	7	5	2	2
07 Aug 2022	3	5	2	5	7	5	2	2
08 Aug 2022	3	6	3	6	7	7	2	2
09 Aug 2022	3	6	3	6	7	7	2	2
10 Aug 2022	2	5	3	5	6	6	2	2
11 Aug 2022	2	5	3	5	6	6	2	2
12 Aug 2022	2	5	3	5	6	6	2	2
13 Aug 2022	2	5	3	5	6	6	2	2
14 Aug 2022	2	5	3	5	6	6	2	2
15 Aug 2022	2	4	3	5	6	7	2	2
16 Aug 2022	2	4	3	5	6	7	2	2
17 Aug 2022	2	4	3	5	6	7	2	2
18 Aug 2022	2	4	3	5	6	7	2	2
19 Aug 2022	2	5	3	7	8	9	2	2
20 Aug 2022	2	5	3	7	8	9	2	2
21 Aug 2022	2	5	3	7	8	9	2	2
22 Aug 2022	2	5	3	7	8	9	2	2
23 Aug 2022	2	4	3	5	6	9	3	2
24 Aug 2022	2	3	3	5	6	8	3	2
25 Aug 2022	2	3	3	5	6	8	3	2
26 Aug 2022	2	3	3	5	6	8	3	2
27 Aug 2022	2	3	3	5	6	8	3	2
28 Aug 2022	2	3	3	5	6	8	3	2
29 Aug 2022	2	3	3	5	6	8	3	2
30 Aug 2022	2	3	3	4	5	6	3	2
31 Aug 2022	2	3	3	4	5	6	3	2

\* Geometric mean calculated using n<5

**Table 3.2**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >200 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Aug 2022	2	2	2	3	2	3	2	2
02 Aug 2022	2	2	2	3	2	3	2	2
03 Aug 2022	2	2	2	3	2	3	2	2
04 Aug 2022	2	2	2	3	2	3	2	2
05 Aug 2022	2	2	2	3	2	3	2	2
06 Aug 2022	2	2	2	3	2	3	2	2
07 Aug 2022	2	2	2	3	2	3	2	2
08 Aug 2022	2	2	2	4	2	3	2	2
09 Aug 2022	2	2	2	4	2	3	2	2
10 Aug 2022	2	2	2	5	2	2	2	2
11 Aug 2022	2	2	2	5	2	2	2	2
12 Aug 2022	2	2	2	5	2	2	2	2
13 Aug 2022	2	2	2	5	2	2	2	2
14 Aug 2022	2	2	2	5	2	2	2	2
15 Aug 2022	2	2	2	4	2	2	2	2
16 Aug 2022	2	2	2	4	2	2	2	2
17 Aug 2022	2	2	2	4	2	2	2	2
18 Aug 2022	2	2	2	4	2	2	2	2
19 Aug 2022	2	2	2	5	2	2	2	2
20 Aug 2022	2	2	2	5	2	2	2	2
21 Aug 2022	2	2	2	5	2	2	2	2
22 Aug 2022	2	2	2	5	2	2	2	2
23 Aug 2022	2	2	2	4	2	2	2	2
24 Aug 2022	2	2	2	3	2	2	2	2
25 Aug 2022	2	2	2	3	2	2	2	2
26 Aug 2022	2	2	2	3	2	2	2	2
27 Aug 2022	2	2	2	3	2	2	2	2
28 Aug 2022	2	2	2	3	2	2	2	2
29 Aug 2022	2	2	2	3	2	2	2	2
30 Aug 2022	2	2	2	3	2	2	2	2
31 Aug 2022	2	2	2	3	2	2	2	2

\* Geometric mean calculated using n<5

**Table 3.3**

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >35 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Aug 2022	2	2	2	2	2	2	2	2
02 Aug 2022	2	2	2	2	2	2	2	2
03 Aug 2022	2	2	2	2	2	2	2	2
04 Aug 2022	2	2	2	2	2	2	2	2
05 Aug 2022	2	2	2	2	2	2	2	2
06 Aug 2022	2	2	2	2	2	2	2	2
07 Aug 2022	2	2	2	2	2	2	2	2
08 Aug 2022	2	2	2	2	2	2	2	2
09 Aug 2022	2	2	2	2	2	2	2	2
10 Aug 2022	2	2	2	2	2	2	2	2
11 Aug 2022	2	2	2	2	2	2	2	2
12 Aug 2022	2	2	2	2	2	2	2	2
13 Aug 2022	2	2	2	2	2	2	2	2
14 Aug 2022	2	2	2	2	2	2	2	2
15 Aug 2022	2	2	2	2	2	2	2	2
16 Aug 2022	2	2	2	2	2	2	2	2
17 Aug 2022	2	2	2	2	2	2	2	2
18 Aug 2022	2	2	2	2	2	2	2	2
19 Aug 2022	2	2	2	2	2	2	2	2
20 Aug 2022	2	2	2	2	2	2	2	2
21 Aug 2022	2	2	2	2	2	2	2	2
22 Aug 2022	2	2	2	2	2	2	2	2
23 Aug 2022	2	2	2	2	2	2	2	2
24 Aug 2022	2	2	2	2	2	2	2	2
25 Aug 2022	2	2	2	2	2	2	2	2
26 Aug 2022	2	2	2	2	2	2	2	2
27 Aug 2022	2	2	2	2	2	2	2	2
28 Aug 2022	2	2	2	2	2	2	2	2
29 Aug 2022	2	2	2	2	2	2	2	2
30 Aug 2022	2	2	2	2	2	2	2	2
31 Aug 2022	2	2	2	2	2	2	2	2

\* Geometric mean calculated using n<5

**Table 3.4**

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Aug 2022	IC							
08 Aug 2022	IC							
15 Aug 2022	IC							
23 Aug 2022	IC							
30 Aug 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.5**

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Aug 2022	IC							
08 Aug 2022	IC							
15 Aug 2022	IC							
23 Aug 2022	IC							
30 Aug 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.6**

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Aug 2022	IC							
08 Aug 2022	IC							
15 Aug 2022	IC							
23 Aug 2022	IC							
30 Aug 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.7**

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Aug 2022	IC							
08 Aug 2022	IC							
15 Aug 2022	IC							
23 Aug 2022	IC							
30 Aug 2022	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.8**

Summary of water quality parameters at the PLOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Enter) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH
A1	02 Aug 2022	757	1	<2	<2	<2	1.00	18.7	75.65	8.0	33.55	8.1
A1	02 Aug 2022	757	12	<2	<2	<2	1.00	13.2	82.66	6.4	33.44	8.0
A1	02 Aug 2022	757	18	<2	<2	<2	1.00	12.9	86.95	5.9	33.48	7.9
A1	08 Aug 2022	800	1	<2	<2	<2	1.00	17.7	82.47	8.3	33.48	8.1
A1	08 Aug 2022	800	12	2e	<2	<2	1.00	12.7	87.99	5.7	33.46	7.9
A1	08 Aug 2022	800	18	6e	6e	<2	1.00	12.4	89.58	5.2	33.50	7.8
A1	15 Aug 2022	759	1	<2	2e	<2	1.00	20.9	80.91	7.1	33.56	8.1
A1	15 Aug 2022	759	12	<2	<2	<2	1.00	13.2	89.09	6.7	33.46	8.0
A1	15 Aug 2022	759	18	<2	<2	4e	1.00	13.1	89.17	6.5	33.48	7.9
A1	23 Aug 2022	812	1	<2	<2	<2	1.00	21.2	85.84	7.8	33.61	8.1
A1	23 Aug 2022	812	12	<2	<2	<2	1.00	15.7	84.06	7.5	33.45	8.0
A1	23 Aug 2022	812	18	<2	<2	<2	1.00	13.1	88.49	6.1	33.45	7.9
A1	30 Aug 2022	741	1	<2	<2	<2	1.00	14.5	84.12	6.9	33.45	8.0
A1	30 Aug 2022	741	12	<2	<2	<2	1.00	13.0	86.72	6.0	33.46	7.9
A1	30 Aug 2022	741	18	<2	<2	<2	1.00	12.9	87.35	5.9	33.47	7.9
A6	02 Aug 2022	829	1	<2	<2	<2	1.00	21.0	79.91	7.7	33.61	8.2
A6	02 Aug 2022	829	12	<2	<2	<2	1.00	13.4	78.64	7.0	33.44	8.0
A6	02 Aug 2022	829	18	<2	<2	<2	1.00	13.2	86.72	6.4	33.46	7.9
A6	08 Aug 2022	825	1	<2	<2	<2	1.00	17.4	73.70	8.3	33.47	8.1
A6	08 Aug 2022	825	12	12e	<2	<2	0.17	12.8	89.83	5.4	33.47	7.8
A6	08 Aug 2022	825	18	<20	2e	<2	0.10	12.1	90.45	4.8	33.50	7.8
A6	15 Aug 2022	821	1	<2	<2	<2	1.00	21.9	83.44	7.7	33.57	8.1
A6	15 Aug 2022	821	12	4e	6e	<2	1.50	12.8	90.11	6.4	33.45	7.9
A6	15 Aug 2022	821	18	2e	<2	<2	1.00	12.6	90.36	6.1	33.48	7.9
A6	23 Aug 2022	841	1	<2	<2	<2	1.00	21.9	85.29	7.5	33.63	8.2
A6	23 Aug 2022	841	12	<2	<2	<2	1.00	14.1	87.22	6.4	33.44	7.9
A6	23 Aug 2022	841	18	<2	<2	<2	1.00	13.2	89.73	5.6	33.46	7.9
A6	30 Aug 2022	813	1	<2	<2	<2	1.00	20.6	83.57	7.5	33.58	8.2
A6	30 Aug 2022	813	12	2e	<2	<2	1.00	13.8	87.28	6.1	33.44	7.9
A6	30 Aug 2022	813	18	<2	<2	<2	1.00	13.3	87.90	6.0	33.45	7.9
A7	02 Aug 2022	812	1	<2	<2	<2	1.00	19.4	80.18	7.7	33.56	8.1
A7	02 Aug 2022	812	12	<2	<2	<2	1.00	15.4	79.87	7.3	33.48	8.0
A7	02 Aug 2022	812	18	<2	<2	<2	1.00	13.4	87.09	5.8	33.46	7.9
A7	08 Aug 2022	812	1	<2	<2	<2	1.00	17.6	78.83	8.5	33.47	8.1
A7	08 Aug 2022	812	12	<20	<2	<2	0.10	13.2	88.30	5.5	33.45	7.9
A7	08 Aug 2022	812	18	32e	<2	<2	0.06	12.3	90.10	4.9	33.48	7.8
A7	15 Aug 2022	810	1	2e	<2	10e	1.00	22.6	84.29	7.6	33.60	8.2
A7	15 Aug 2022	810	12	2e	<2	<2	1.00	13.0	89.39	6.4	33.45	8.0
A7	15 Aug 2022	810	18	<2	<2	<2	1.00	12.8	89.69	6.1	33.48	7.9

Station	Date	Time	Depth	Total	Fecal	Enterο	F:T	Temp	XMS	DO	Sal	pH
A7	23 Aug 2022	825	1	<2	<2	<2	1.00	21.5	84.60	7.8	33.63	8.2
A7	23 Aug 2022	825	12	<2	<2	<2	1.00	14.5	86.06	7.6	33.43	8.0
A7	23 Aug 2022	825	18	<2	<2	<2	1.00	13.3	88.33	6.0	33.45	7.9
A7	30 Aug 2022	801	1	<2	<2	<2	1.00	18.5	83.76	7.2	33.51	8.1
A7	30 Aug 2022	801	12	<2	<2	<2	1.00	13.8	85.78	6.5	33.43	8.0
A7	30 Aug 2022	801	18	<2	<2	<2	1.00	13.3	88.26	5.8	33.46	7.9
C4	02 Aug 2022	947	1	<2	<2	<2	1.00	21.0	77.75	7.7	33.59	8.2
C4	02 Aug 2022	947	3	<2	<2	<2	1.00	19.3	78.76	6.9	33.53	8.1
C4	02 Aug 2022	947	9	<2	<2	<2	1.00	14.3	79.58	5.0	33.46	7.9
C4	08 Aug 2022	934	1	<20	<20	<2	1.00	16.8	72.56	7.4	33.47	8.0
C4	08 Aug 2022	934	3	20e	<20	<2	1.00	16.6	66.90	6.9	33.48	8.0
C4	08 Aug 2022	934	9	<2	<2	<2	1.00	13.4	81.40	3.8	33.47	7.8
C4	15 Aug 2022	944	1	<20	<2	<2	0.10	21.1	73.58	6.3	33.54	8.1
C4	15 Aug 2022	944	3	<2	<2	<2	1.00	17.3	77.19	6.9	33.50	8.1
C4	15 Aug 2022	944	9	<2	<2	<2	1.00	14.0	81.94	5.7	33.48	7.9
C4	23 Aug 2022	1007	1	<2	<2	<2	1.00	20.8	84.85	8.0	33.59	8.2
C4	23 Aug 2022	1007	3	<2	<2	<2	1.00	20.1	84.15	8.0	33.56	8.2
C4	23 Aug 2022	1007	9	<2	<2	<2	1.00	15.0	82.29	3.8	33.45	7.8
C4	30 Aug 2022	925	1	<2	<2	<2	1.00	21.2	81.66	6.9	33.61	8.2
C4	30 Aug 2022	925	3	2e	<2	<2	1.00	19.6	79.34	6.2	33.54	8.1
C4	30 Aug 2022	925	9	2e	<2	<2	1.00	14.3	86.56	4.8	33.44	7.9
C5	02 Aug 2022	935	1	2e	<2	<2	1.00	21.1	78.30	7.5	33.60	8.2
C5	02 Aug 2022	935	3	<20	<2	<2	0.10	20.1	76.32	7.2	33.57	8.2
C5	02 Aug 2022	935	9	<2	<2	<2	1.00	14.8	84.11	5.9	33.46	7.9
C5	08 Aug 2022	923	1	<20	<2	<2	0.10	17.4	76.53	8.0	33.48	8.1
C5	08 Aug 2022	923	3	2e	<2	<2	1.00	16.7	75.41	7.9	33.47	8.1
C5	08 Aug 2022	923	9	<2	<2	<2	1.00	13.9	85.46	5.3	33.45	7.9
C5	15 Aug 2022	935	1	<2	<2	2e	1.00	21.7	75.70	7.1	33.56	8.1
C5	15 Aug 2022	935	3	<20	<2	<2	0.10	20.5	75.98	6.3	33.50	8.1
C5	15 Aug 2022	935	9	<2	<2	<2	1.00	14.3	83.66	5.5	33.45	7.9
C5	23 Aug 2022	952	1	<2	<2	<2	1.00	21.8	84.90	7.5	33.63	8.2
C5	23 Aug 2022	952	3	<2	<2	2e	1.00	20.8	84.74	7.6	33.59	8.2
C5	23 Aug 2022	952	9	2e	<2	<2	1.00	15.4	86.73	5.8	33.45	7.9
C5	30 Aug 2022	915	1	2e	<2	<2	1.00	20.7	79.66	7.0	33.58	8.1
C5	30 Aug 2022	915	3	<2	<2	<2	1.00	18.0	80.86	6.8	33.49	8.1
C5	30 Aug 2022	915	9	<2	<2	<2	1.00	14.7	88.09	6.1	33.44	8.0
C6	02 Aug 2022	927	1	<2	<2	<2	1.00	21.0	81.26	7.9	33.60	8.2
C6	02 Aug 2022	927	3	<2	<2	<2	1.00	20.2	80.78	7.1	33.59	8.2
C6	02 Aug 2022	927	9	<2	<2	<2	1.00	14.0	81.32	6.2	33.46	7.9
C6	08 Aug 2022	911	1	<20	<2	<2	0.10	17.3	73.98	8.7	33.48	8.1
C6	08 Aug 2022	911	3	<20	<2	<2	0.10	17.2	70.03	8.6	33.48	8.1
C6	08 Aug 2022	911	9	<20	<2	<2	0.10	14.6	82.94	6.3	33.52	8.1
C6	15 Aug 2022	923	1	<2	<2	<2	1.00	21.6	76.67	7.1	33.57	8.1
C6	15 Aug 2022	923	3	<20	<2	<2	0.10	20.8	74.63	6.2	33.55	8.1
C6	15 Aug 2022	923	9	<20	<2	2e	0.10	13.8	71.48	5.3	33.46	7.9

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
C6	23 Aug 2022	939	1	20e	<2	<2	0.10	22.4	82.31	7.0	33.64	8.1
C6	23 Aug 2022	939	3	<2	2e	<2	1.00	21.1	81.99	6.9	33.60	8.1
C6	23 Aug 2022	939	9	2e	<2	<2	1.00	15.0	85.39	6.3	33.44	7.9
C6	30 Aug 2022	904	1	<2	<2	<2	1.00	19.0	83.02	7.4	33.55	8.1
C6	30 Aug 2022	904	3	<2	<2	<2	1.00	15.9	82.38	7.3	33.49	8.1
C6	30 Aug 2022	904	9	<2	<2	<2	1.00	14.6	86.61	6.3	33.46	8.0
C7	02 Aug 2022	850	1	<2	<2	<2	1.00	21.2	76.86	8.1	33.60	8.2
C7	02 Aug 2022	850	12	<2	<2	2e	1.00	13.2	85.61	5.6	33.48	7.9
C7	02 Aug 2022	850	18	<2	<2	<2	1.00	12.5	85.63	5.4	33.49	7.8
C7	08 Aug 2022	839	1	<2	<2	<2	1.00	16.8	69.45	8.3	33.48	8.1
C7	08 Aug 2022	839	12	<2	<2	<2	1.00	13.1	84.92	5.7	33.46	7.9
C7	08 Aug 2022	839	18	4e	4e	2e	1.00	12.4	89.04	5.0	33.49	7.8
C7	15 Aug 2022	846	1	<2	<2	2e	1.00	22.7	87.35	7.8	33.60	8.2
C7	15 Aug 2022	846	12	<2	<2	2e	1.00	14.7	86.38	7.4	33.44	8.0
C7	15 Aug 2022	846	18	<2	<2	<2	1.00	13.0	87.77	5.6	33.49	7.9
C7	23 Aug 2022	900	1	<20	<2	<2	0.10	22.2	82.42	7.4	33.64	8.1
C7	23 Aug 2022	900	12	<2	<2	<2	1.00	14.2	87.72	6.9	33.43	8.0
C7	23 Aug 2022	900	18	2e	<2	<2	1.00	13.2	89.56	5.7	33.45	7.9
C7	30 Aug 2022	833	1	<2	<2	<2	1.00	18.6	79.73	8.0	33.52	8.2
C7	30 Aug 2022	833	12	<2	<2	<2	1.00	15.5	82.76	7.6	33.46	8.1
C7	30 Aug 2022	833	18	<2	<2	<2	1.00	13.4	88.89	5.9	33.46	7.9
C8	02 Aug 2022	902	1	<2	<2	<2	1.00	21.8	79.78	8.2	33.61	8.2
C8	02 Aug 2022	902	12	<2	<2	<2	1.00	13.0	87.34	5.8	33.47	7.9
C8	02 Aug 2022	902	18	2e	2e	<2	1.00	12.5	87.35	5.3	33.49	7.9
C8	08 Aug 2022	852	1	<2	<2	<2	1.00	17.3	61.36	8.3	33.48	8.1
C8	08 Aug 2022	852	12	<2	<2	<2	1.00	13.8	82.94	6.4	33.44	8.0
C8	08 Aug 2022	852	18	<2	2e	<2	1.00	12.7	88.49	5.0	33.47	7.8
C8	15 Aug 2022	904	1	<2	<2	2e	1.00	22.5	79.62	7.7	33.59	8.2
C8	15 Aug 2022	904	12	<2	<2	<2	1.00	14.9	87.44	8.5	33.40	8.1
C8	15 Aug 2022	904	18	<2	<2	<2	1.00	13.2	85.53	6.5	33.47	8.0
C8	23 Aug 2022	916	1	<2	<2	<2	1.00	22.1	78.96	7.4	33.63	8.1
C8	23 Aug 2022	916	12	<2	<2	<2	1.00	14.4	81.36	7.4	33.43	8.0
C8	23 Aug 2022	916	18	<2	<2	<2	1.00	13.1	88.65	5.8	33.45	7.9
C8	30 Aug 2022	845	1	<2	<2	<2	1.00	20.4	82.25	7.5	33.59	8.2
C8	30 Aug 2022	845	12	<2	<2	<2	1.00	14.8	80.06	7.2	33.44	8.1
C8	30 Aug 2022	845	18	6e	<2	<2	0.33	13.5	85.18	5.9	33.45	7.9

ns = not sampled

ND = no data

**Table 3.9**

Summary of visual observations made during the month for each PLOO kelp bed station by sample date.

Station	Date	Parameter	Value
A1	02 Aug 2022	Depth (m)	18
A1	02 Aug 2022	Arrive Time	757
A1	02 Aug 2022	Depart Time	809
A1	02 Aug 2022	Air Temp (C)	20.8
A1	02 Aug 2022	Weather	Overcast
A1	02 Aug 2022	Visibility (mi)	8
A1	02 Aug 2022	Wind Speed (kts)	5.8
A1	02 Aug 2022	Wind Dir	NW
A1	02 Aug 2022	Water Color	Greenish-Blue
A1	02 Aug 2022	Wave Ht Low (ft)	5
A1	02 Aug 2022	Wave Period (sec)	12
A1	02 Aug 2022	Sea State	Regular Swell
A1	02 Aug 2022	High Tide (ft)	4.91
A1	02 Aug 2022	High Tide Time	706
A1	02 Aug 2022	Low Tide (ft)	0.62
A1	02 Aug 2022	Low Tide Time	1336
A1	02 Aug 2022	Comments	Kelp
A1	08 Aug 2022	Depth (m)	18
A1	08 Aug 2022	Arrive Time	754
A1	08 Aug 2022	Depart Time	800
A1	08 Aug 2022	Air Temp (C)	17.5
A1	08 Aug 2022	Weather	Fog
A1	08 Aug 2022	Visibility (mi)	1
A1	08 Aug 2022	Wind Speed (kts)	0
A1	08 Aug 2022	Wind Dir	W
A1	08 Aug 2022	Water Color	Blue
A1	08 Aug 2022	Wave Ht Low (ft)	4.3
A1	08 Aug 2022	Wave Period (sec)	8
A1	08 Aug 2022	Sea State	Calm
A1	08 Aug 2022	High Tide (ft)	6.39
A1	08 Aug 2022	High Tide Time	142
A1	08 Aug 2022	Low Tide (ft)	-0.25
A1	08 Aug 2022	Low Tide Time	830
A1	08 Aug 2022	Comments	none
A1	15 Aug 2022	Depth (m)	18
A1	15 Aug 2022	Arrive Time	749
A1	15 Aug 2022	Depart Time	806
A1	15 Aug 2022	Air Temp (C)	21.4
A1	15 Aug 2022	Weather	Overcast
A1	15 Aug 2022	Visibility (mi)	4
A1	15 Aug 2022	Wind Speed (kts)	5.5
A1	15 Aug 2022	Wind Dir	W
A1	15 Aug 2022	Water Color	Blueish-Green
A1	15 Aug 2022	Wave Ht Low (ft)	2
A1	15 Aug 2022	Wave Period (sec)	14
A1	15 Aug 2022	Sea State	Calm
A1	15 Aug 2022	High Tide (ft)	5.56
A1	15 Aug 2022	High Tide Time	706
A1	15 Aug 2022	Low Tide (ft)	0.15
A1	15 Aug 2022	Low Tide Time	1312
A1	15 Aug 2022	Comments	none
A1	23 Aug 2022	Depth (m)	18
A1	23 Aug 2022	Arrive Time	812

Station	Date	Parameter	Value
A1	23 Aug 2022	Depart Time	819
A1	23 Aug 2022	Air Temp (C)	19.7
A1	23 Aug 2022	Weather	Overcast
A1	23 Aug 2022	Visibility (mi)	7
A1	23 Aug 2022	Wind Speed (kts)	1.6
A1	23 Aug 2022	Wind Dir	E
A1	23 Aug 2022	Water Color	Blueish-Green
A1	23 Aug 2022	Wave Ht Low (ft)	3.3
A1	23 Aug 2022	Wave Period (sec)	18
A1	23 Aug 2022	Sea State	Regular Swell
A1	23 Aug 2022	High Tide (ft)	5.6
A1	23 Aug 2022	High Tide Time	236
A1	23 Aug 2022	Low Tide (ft)	0.11
A1	23 Aug 2022	Low Tide Time	924
A1	23 Aug 2022	Comments	none
A1	30 Aug 2022	Depth (m)	19
A1	30 Aug 2022	Arrive Time	741
A1	30 Aug 2022	Depart Time	754
A1	30 Aug 2022	Air Temp (C)	20.5
A1	30 Aug 2022	Weather	Haze
A1	30 Aug 2022	Visibility (mi)	8
A1	30 Aug 2022	Wind Speed (kts)	5.4
A1	30 Aug 2022	Wind Dir	NW
A1	30 Aug 2022	Water Color	Blueish-Green
A1	30 Aug 2022	Wave Ht Low (ft)	3
A1	30 Aug 2022	Wave Period (sec)	13
A1	30 Aug 2022	Sea State	Light Chop
A1	30 Aug 2022	High Tide (ft)	4.93
A1	30 Aug 2022	High Tide Time	1842
A1	30 Aug 2022	Low Tide (ft)	0.66
A1	30 Aug 2022	Low Tide Time	1218
A1	30 Aug 2022	Comments	none
A6	02 Aug 2022	Depth (m)	20
A6	02 Aug 2022	Arrive Time	829
A6	02 Aug 2022	Depart Time	835
A6	02 Aug 2022	Air Temp (C)	21.3
A6	02 Aug 2022	Weather	Overcast
A6	02 Aug 2022	Visibility (mi)	8
A6	02 Aug 2022	Wind Speed (kts)	5.4
A6	02 Aug 2022	Wind Dir	NW
A6	02 Aug 2022	Water Color	Green
A6	02 Aug 2022	Wave Ht Low (ft)	5
A6	02 Aug 2022	Wave Period (sec)	12
A6	02 Aug 2022	Sea State	Regular Swell
A6	02 Aug 2022	High Tide (ft)	4.91
A6	02 Aug 2022	High Tide Time	706
A6	02 Aug 2022	Low Tide (ft)	0.62
A6	02 Aug 2022	Low Tide Time	1336
A6	02 Aug 2022	Comments	none
A6	08 Aug 2022	Depth (m)	19
A6	08 Aug 2022	Arrive Time	820
A6	08 Aug 2022	Depart Time	825
A6	08 Aug 2022	Air Temp (C)	17.8
A6	08 Aug 2022	Weather	Fog
A6	08 Aug 2022	Visibility (mi)	1
A6	08 Aug 2022	Wind Speed (kts)	6.5
A6	08 Aug 2022	Wind Dir	S
A6	08 Aug 2022	Water Color	Blue

Station	Date	Parameter	Value
A6	08 Aug 2022	Wave Ht Low (ft)	4.3
A6	08 Aug 2022	Wave Period (sec)	8
A6	08 Aug 2022	Sea State	Calm
A6	08 Aug 2022	High Tide (ft)	6.39
A6	08 Aug 2022	High Tide Time	142
A6	08 Aug 2022	Low Tide (ft)	-0.25
A6	08 Aug 2022	Low Tide Time	830
A6	08 Aug 2022	Comments	none
A6	15 Aug 2022	Depth (m)	18
A6	15 Aug 2022	Arrive Time	821
A6	15 Aug 2022	Depart Time	835
A6	15 Aug 2022	Air Temp (C)	21.4
A6	15 Aug 2022	Weather	Overcast
A6	15 Aug 2022	Visibility (mi)	4
A6	15 Aug 2022	Wind Speed (kts)	9.5
A6	15 Aug 2022	Wind Dir	W
A6	15 Aug 2022	Water Color	Blueish-Green
A6	15 Aug 2022	Wave Ht Low (ft)	2
A6	15 Aug 2022	Wave Period (sec)	14
A6	15 Aug 2022	Sea State	Calm
A6	15 Aug 2022	High Tide (ft)	5.56
A6	15 Aug 2022	High Tide Time	706
A6	15 Aug 2022	Low Tide (ft)	0.15
A6	15 Aug 2022	Low Tide Time	1312
A6	15 Aug 2022	Comments	none
A6	23 Aug 2022	Depth (m)	18
A6	23 Aug 2022	Arrive Time	841
A6	23 Aug 2022	Depart Time	846
A6	23 Aug 2022	Air Temp (C)	20
A6	23 Aug 2022	Weather	Overcast
A6	23 Aug 2022	Visibility (mi)	7
A6	23 Aug 2022	Wind Speed (kts)	1.9
A6	23 Aug 2022	Wind Dir	S
A6	23 Aug 2022	Water Color	Blueish-Green
A6	23 Aug 2022	Wave Ht Low (ft)	3.3
A6	23 Aug 2022	Wave Period (sec)	18
A6	23 Aug 2022	Sea State	Regular Swell
A6	23 Aug 2022	High Tide (ft)	5.6
A6	23 Aug 2022	High Tide Time	236
A6	23 Aug 2022	Low Tide (ft)	0.11
A6	23 Aug 2022	Low Tide Time	924
A6	23 Aug 2022	Comments	none
A6	30 Aug 2022	Depth (m)	18
A6	30 Aug 2022	Arrive Time	813
A6	30 Aug 2022	Depart Time	823
A6	30 Aug 2022	Air Temp (C)	20.8
A6	30 Aug 2022	Weather	Haze
A6	30 Aug 2022	Visibility (mi)	8
A6	30 Aug 2022	Wind Speed (kts)	15.6
A6	30 Aug 2022	Wind Dir	NW
A6	30 Aug 2022	Water Color	Blueish-Green
A6	30 Aug 2022	Wave Ht Low (ft)	3
A6	30 Aug 2022	Wave Period (sec)	13
A6	30 Aug 2022	Sea State	Light Chop
A6	30 Aug 2022	High Tide (ft)	4.93
A6	30 Aug 2022	High Tide Time	1842
A6	30 Aug 2022	Low Tide (ft)	0.66
A6	30 Aug 2022	Low Tide Time	1218

Station	Date	Parameter	Value
A6	30 Aug 2022	Comments	none
A7	02 Aug 2022	Depth (m)	18
A7	02 Aug 2022	Arrive Time	812
A7	02 Aug 2022	Depart Time	816
A7	02 Aug 2022	Air Temp (C)	21.1
A7	02 Aug 2022	Weather	Overcast
A7	02 Aug 2022	Visibility (mi)	8
A7	02 Aug 2022	Wind Speed (kts)	7.5
A7	02 Aug 2022	Wind Dir	NW
A7	02 Aug 2022	Water Color	Green
A7	02 Aug 2022	Wave Ht Low (ft)	5
A7	02 Aug 2022	Wave Period (sec)	12
A7	02 Aug 2022	Sea State	Regular Swell
A7	02 Aug 2022	High Tide (ft)	4.91
A7	02 Aug 2022	High Tide Time	706
A7	02 Aug 2022	Low Tide (ft)	0.62
A7	02 Aug 2022	Low Tide Time	1336
A7	02 Aug 2022	Comments	Kelp; used bottle 4 for 12m sample
A7	08 Aug 2022	Depth (m)	20
A7	08 Aug 2022	Arrive Time	806
A7	08 Aug 2022	Depart Time	812
A7	08 Aug 2022	Air Temp (C)	17.7
A7	08 Aug 2022	Weather	Fog
A7	08 Aug 2022	Visibility (mi)	1
A7	08 Aug 2022	Wind Speed (kts)	4.3
A7	08 Aug 2022	Wind Dir	SE
A7	08 Aug 2022	Water Color	Blue
A7	08 Aug 2022	Wave Ht Low (ft)	4.3
A7	08 Aug 2022	Wave Period (sec)	8
A7	08 Aug 2022	Sea State	Calm
A7	08 Aug 2022	High Tide (ft)	6.39
A7	08 Aug 2022	High Tide Time	142
A7	08 Aug 2022	Low Tide (ft)	-0.25
A7	08 Aug 2022	Low Tide Time	830
A7	08 Aug 2022	Comments	none
A7	15 Aug 2022	Depth (m)	19
A7	15 Aug 2022	Arrive Time	810
A7	15 Aug 2022	Depart Time	815
A7	15 Aug 2022	Air Temp (C)	21.4
A7	15 Aug 2022	Weather	Overcast
A7	15 Aug 2022	Visibility (mi)	4
A7	15 Aug 2022	Wind Speed (kts)	7.6
A7	15 Aug 2022	Wind Dir	W
A7	15 Aug 2022	Water Color	Blueish-Green
A7	15 Aug 2022	Wave Ht Low (ft)	2
A7	15 Aug 2022	Wave Period (sec)	14
A7	15 Aug 2022	Sea State	Calm
A7	15 Aug 2022	High Tide (ft)	5.56
A7	15 Aug 2022	High Tide Time	706
A7	15 Aug 2022	Low Tide (ft)	0.15
A7	15 Aug 2022	Low Tide Time	1312
A7	15 Aug 2022	Comments	none
A7	23 Aug 2022	Depth (m)	20
A7	23 Aug 2022	Arrive Time	825
A7	23 Aug 2022	Depart Time	831
A7	23 Aug 2022	Air Temp (C)	19.7
A7	23 Aug 2022	Weather	Overcast

Station	Date	Parameter	Value
A7	23 Aug 2022	Visibility (mi)	7
A7	23 Aug 2022	Wind Speed (kts)	4.4
A7	23 Aug 2022	Wind Dir	SW
A7	23 Aug 2022	Water Color	Blueish-Green
A7	23 Aug 2022	Wave Ht Low (ft)	3.3
A7	23 Aug 2022	Wave Period (sec)	18
A7	23 Aug 2022	Sea State	Regular Swell
A7	23 Aug 2022	High Tide (ft)	5.6
A7	23 Aug 2022	High Tide Time	236
A7	23 Aug 2022	Low Tide (ft)	0.11
A7	23 Aug 2022	Low Tide Time	924
A7	23 Aug 2022	Comments	Kelp Debris
A7	30 Aug 2022	Depth (m)	20
A7	30 Aug 2022	Arrive Time	801
A7	30 Aug 2022	Depart Time	807
A7	30 Aug 2022	Air Temp (C)	20.9
A7	30 Aug 2022	Weather	Haze
A7	30 Aug 2022	Visibility (mi)	8
A7	30 Aug 2022	Wind Speed (kts)	6.4
A7	30 Aug 2022	Wind Dir	N
A7	30 Aug 2022	Water Color	Blueish-Green
A7	30 Aug 2022	Wave Ht Low (ft)	3
A7	30 Aug 2022	Wave Period (sec)	13
A7	30 Aug 2022	Sea State	Light Chop
A7	30 Aug 2022	High Tide (ft)	4.93
A7	30 Aug 2022	High Tide Time	1842
A7	30 Aug 2022	Low Tide (ft)	0.66
A7	30 Aug 2022	Low Tide Time	1218
A7	30 Aug 2022	Comments	none
C4	02 Aug 2022	Depth (m)	11
C4	02 Aug 2022	Arrive Time	947
C4	02 Aug 2022	Depart Time	951
C4	02 Aug 2022	Air Temp (C)	21.4
C4	02 Aug 2022	Weather	Partly Cloudy
C4	02 Aug 2022	Visibility (mi)	8
C4	02 Aug 2022	Wind Speed (kts)	9.6
C4	02 Aug 2022	Wind Dir	NW
C4	02 Aug 2022	Water Color	Green
C4	02 Aug 2022	Wave Ht Low (ft)	5
C4	02 Aug 2022	Wave Period (sec)	12
C4	02 Aug 2022	Sea State	Regular Swell
C4	02 Aug 2022	High Tide (ft)	4.91
C4	02 Aug 2022	High Tide Time	706
C4	02 Aug 2022	Low Tide (ft)	0.62
C4	02 Aug 2022	Low Tide Time	1336
C4	02 Aug 2022	Comments	Kelp
C4	08 Aug 2022	Depth (m)	12
C4	08 Aug 2022	Arrive Time	932
C4	08 Aug 2022	Depart Time	934
C4	08 Aug 2022	Air Temp (C)	17.6
C4	08 Aug 2022	Weather	Fog
C4	08 Aug 2022	Visibility (mi)	1
C4	08 Aug 2022	Wind Speed (kts)	2.3
C4	08 Aug 2022	Wind Dir	SE
C4	08 Aug 2022	Water Color	Blueish-Green
C4	08 Aug 2022	Wave Ht Low (ft)	4.3
C4	08 Aug 2022	Wave Period (sec)	8
C4	08 Aug 2022	Sea State	Calm

Station	Date	Parameter	Value
C4	08 Aug 2022	High Tide (ft)	6.39
C4	08 Aug 2022	High Tide Time	142
C4	08 Aug 2022	Low Tide (ft)	-0.25
C4	08 Aug 2022	Low Tide Time	830
C4	08 Aug 2022	Comments	none
C4	15 Aug 2022	Depth (m)	11
C4	15 Aug 2022	Arrive Time	944
C4	15 Aug 2022	Depart Time	947
C4	15 Aug 2022	Air Temp (C)	21.5
C4	15 Aug 2022	Weather	Overcast
C4	15 Aug 2022	Visibility (mi)	4
C4	15 Aug 2022	Wind Speed (kts)	6.9
C4	15 Aug 2022	Wind Dir	W
C4	15 Aug 2022	Water Color	Blueish-Green
C4	15 Aug 2022	Wave Ht Low (ft)	2
C4	15 Aug 2022	Wave Period (sec)	14
C4	15 Aug 2022	Sea State	Calm
C4	15 Aug 2022	High Tide (ft)	5.56
C4	15 Aug 2022	High Tide Time	706
C4	15 Aug 2022	Low Tide (ft)	0.15
C4	15 Aug 2022	Low Tide Time	1312
C4	15 Aug 2022	Comments	birds on station
C4	23 Aug 2022	Depth (m)	10
C4	23 Aug 2022	Arrive Time	1007
C4	23 Aug 2022	Depart Time	1011
C4	23 Aug 2022	Air Temp (C)	19.9
C4	23 Aug 2022	Weather	Overcast
C4	23 Aug 2022	Visibility (mi)	7
C4	23 Aug 2022	Wind Speed (kts)	1.9
C4	23 Aug 2022	Wind Dir	S
C4	23 Aug 2022	Water Color	Blueish-Green
C4	23 Aug 2022	Wave Ht Low (ft)	3.3
C4	23 Aug 2022	Wave Period (sec)	18
C4	23 Aug 2022	Sea State	Regular Swell
C4	23 Aug 2022	High Tide (ft)	5.6
C4	23 Aug 2022	High Tide Time	236
C4	23 Aug 2022	Low Tide (ft)	0.11
C4	23 Aug 2022	Low Tide Time	924
C4	23 Aug 2022	Comments	none
C4	30 Aug 2022	Depth (m)	11
C4	30 Aug 2022	Arrive Time	925
C4	30 Aug 2022	Depart Time	929
C4	30 Aug 2022	Air Temp (C)	21.5
C4	30 Aug 2022	Weather	Haze
C4	30 Aug 2022	Visibility (mi)	8
C4	30 Aug 2022	Wind Speed (kts)	4.8
C4	30 Aug 2022	Wind Dir	NW
C4	30 Aug 2022	Water Color	Green
C4	30 Aug 2022	Wave Ht Low (ft)	3
C4	30 Aug 2022	Wave Period (sec)	13
C4	30 Aug 2022	Sea State	Light Chop
C4	30 Aug 2022	High Tide (ft)	4.93
C4	30 Aug 2022	High Tide Time	1842
C4	30 Aug 2022	Low Tide (ft)	0.66
C4	30 Aug 2022	Low Tide Time	1218
C4	30 Aug 2022	Comments	none
C5	02 Aug 2022	Depth (m)	11

Station	Date	Parameter	Value
C5	02 Aug 2022	Arrive Time	935
C5	02 Aug 2022	Depart Time	939
C5	02 Aug 2022	Air Temp (C)	21.6
C5	02 Aug 2022	Weather	Partly Cloudy
C5	02 Aug 2022	Visibility (mi)	8
C5	02 Aug 2022	Wind Speed (kts)	7
C5	02 Aug 2022	Wind Dir	N
C5	02 Aug 2022	Water Color	Green
C5	02 Aug 2022	Wave Ht Low (ft)	5
C5	02 Aug 2022	Wave Period (sec)	12
C5	02 Aug 2022	Sea State	Regular Swell
C5	02 Aug 2022	High Tide (ft)	4.91
C5	02 Aug 2022	High Tide Time	706
C5	02 Aug 2022	Low Tide (ft)	0.62
C5	02 Aug 2022	Low Tide Time	1336
C5	02 Aug 2022	Comments	Kelp
C5	08 Aug 2022	Depth (m)	11
C5	08 Aug 2022	Arrive Time	920
C5	08 Aug 2022	Depart Time	923
C5	08 Aug 2022	Air Temp (C)	17.9
C5	08 Aug 2022	Weather	Fog
C5	08 Aug 2022	Visibility (mi)	1
C5	08 Aug 2022	Wind Speed (kts)	9.6
C5	08 Aug 2022	Wind Dir	S
C5	08 Aug 2022	Water Color	Blueish-Green
C5	08 Aug 2022	Wave Ht Low (ft)	4.3
C5	08 Aug 2022	Wave Period (sec)	8
C5	08 Aug 2022	Sea State	Calm
C5	08 Aug 2022	High Tide (ft)	6.39
C5	08 Aug 2022	High Tide Time	142
C5	08 Aug 2022	Low Tide (ft)	-0.25
C5	08 Aug 2022	Low Tide Time	830
C5	08 Aug 2022	Comments	none
C5	15 Aug 2022	Depth (m)	11
C5	15 Aug 2022	Arrive Time	934
C5	15 Aug 2022	Depart Time	938
C5	15 Aug 2022	Air Temp (C)	21.5
C5	15 Aug 2022	Weather	Overcast
C5	15 Aug 2022	Visibility (mi)	4
C5	15 Aug 2022	Wind Speed (kts)	7.5
C5	15 Aug 2022	Wind Dir	W
C5	15 Aug 2022	Water Color	Blueish-Green
C5	15 Aug 2022	Wave Ht Low (ft)	2
C5	15 Aug 2022	Wave Period (sec)	14
C5	15 Aug 2022	Sea State	Calm
C5	15 Aug 2022	High Tide (ft)	5.56
C5	15 Aug 2022	High Tide Time	706
C5	15 Aug 2022	Low Tide (ft)	0.15
C5	15 Aug 2022	Low Tide Time	1312
C5	15 Aug 2022	Comments	none
C5	23 Aug 2022	Depth (m)	10
C5	23 Aug 2022	Arrive Time	952
C5	23 Aug 2022	Depart Time	957
C5	23 Aug 2022	Air Temp (C)	19.9
C5	23 Aug 2022	Weather	Overcast
C5	23 Aug 2022	Visibility (mi)	7
C5	23 Aug 2022	Wind Speed (kts)	2.9
C5	23 Aug 2022	Wind Dir	S

Station	Date	Parameter	Value
C5	23 Aug 2022	Water Color	Blueish-Green
C5	23 Aug 2022	Wave Ht Low (ft)	3.3
C5	23 Aug 2022	Wave Period (sec)	18
C5	23 Aug 2022	Sea State	Regular Swell
C5	23 Aug 2022	High Tide (ft)	5.6
C5	23 Aug 2022	High Tide Time	236
C5	23 Aug 2022	Low Tide (ft)	0.11
C5	23 Aug 2022	Low Tide Time	924
C5	23 Aug 2022	Comments	Kelp; Kelp Debris
C5	30 Aug 2022	Depth (m)	11
C5	30 Aug 2022	Arrive Time	915
C5	30 Aug 2022	Depart Time	918
C5	30 Aug 2022	Air Temp (C)	21.4
C5	30 Aug 2022	Weather	Haze
C5	30 Aug 2022	Visibility (mi)	8
C5	30 Aug 2022	Wind Speed (kts)	3.9
C5	30 Aug 2022	Wind Dir	NW
C5	30 Aug 2022	Water Color	Green
C5	30 Aug 2022	Wave Ht Low (ft)	3
C5	30 Aug 2022	Wave Period (sec)	13
C5	30 Aug 2022	Sea State	Light Chop
C5	30 Aug 2022	High Tide (ft)	4.93
C5	30 Aug 2022	High Tide Time	1842
C5	30 Aug 2022	Low Tide (ft)	0.66
C5	30 Aug 2022	Low Tide Time	1218
C5	30 Aug 2022	Comments	Kelp
C6	02 Aug 2022	Depth (m)	9
C6	02 Aug 2022	Arrive Time	927
C6	02 Aug 2022	Depart Time	928
C6	02 Aug 2022	Air Temp (C)	21.6
C6	02 Aug 2022	Weather	Partly Cloudy
C6	02 Aug 2022	Visibility (mi)	8
C6	02 Aug 2022	Wind Speed (kts)	6.7
C6	02 Aug 2022	Wind Dir	N
C6	02 Aug 2022	Water Color	Green
C6	02 Aug 2022	Wave Ht Low (ft)	5
C6	02 Aug 2022	Wave Period (sec)	12
C6	02 Aug 2022	Sea State	Regular Swell
C6	02 Aug 2022	High Tide (ft)	4.91
C6	02 Aug 2022	High Tide Time	706
C6	02 Aug 2022	Low Tide (ft)	0.62
C6	02 Aug 2022	Low Tide Time	1336
C6	02 Aug 2022	Comments	Kelp
C6	08 Aug 2022	Depth (m)	9
C6	08 Aug 2022	Arrive Time	908
C6	08 Aug 2022	Depart Time	911
C6	08 Aug 2022	Air Temp (C)	17.7
C6	08 Aug 2022	Weather	Haze
C6	08 Aug 2022	Visibility (mi)	1
C6	08 Aug 2022	Wind Speed (kts)	7.9
C6	08 Aug 2022	Wind Dir	S
C6	08 Aug 2022	Water Color	Blueish-Green
C6	08 Aug 2022	Wave Ht Low (ft)	4.3
C6	08 Aug 2022	Wave Period (sec)	8
C6	08 Aug 2022	Sea State	Calm
C6	08 Aug 2022	High Tide (ft)	6.39
C6	08 Aug 2022	High Tide Time	142
C6	08 Aug 2022	Low Tide (ft)	-0.25

Station	Date	Parameter	Value
C6	08 Aug 2022	Low Tide Time	830
C6	08 Aug 2022	Comments	none
C6	15 Aug 2022	Depth (m)	9
C6	15 Aug 2022	Arrive Time	923
C6	15 Aug 2022	Depart Time	928
C6	15 Aug 2022	Air Temp (C)	21.6
C6	15 Aug 2022	Weather	Overcast
C6	15 Aug 2022	Visibility (mi)	4
C6	15 Aug 2022	Wind Speed (kts)	4.3
C6	15 Aug 2022	Wind Dir	SW
C6	15 Aug 2022	Water Color	Blueish-Green
C6	15 Aug 2022	Wave Ht Low (ft)	2
C6	15 Aug 2022	Wave Period (sec)	14
C6	15 Aug 2022	Sea State	Calm
C6	15 Aug 2022	High Tide (ft)	5.56
C6	15 Aug 2022	High Tide Time	706
C6	15 Aug 2022	Low Tide (ft)	0.15
C6	15 Aug 2022	Low Tide Time	1312
C6	15 Aug 2022	Comments	none
C6	23 Aug 2022	Depth (m)	10
C6	23 Aug 2022	Arrive Time	939
C6	23 Aug 2022	Depart Time	942
C6	23 Aug 2022	Air Temp (C)	20
C6	23 Aug 2022	Weather	Overcast
C6	23 Aug 2022	Visibility (mi)	7
C6	23 Aug 2022	Wind Speed (kts)	3.2
C6	23 Aug 2022	Wind Dir	SW
C6	23 Aug 2022	Water Color	Blueish-Green
C6	23 Aug 2022	Wave Ht Low (ft)	3.3
C6	23 Aug 2022	Wave Period (sec)	18
C6	23 Aug 2022	Sea State	Regular Swell
C6	23 Aug 2022	High Tide (ft)	5.6
C6	23 Aug 2022	High Tide Time	236
C6	23 Aug 2022	Low Tide (ft)	0.11
C6	23 Aug 2022	Low Tide Time	924
C6	23 Aug 2022	Comments	none
C6	30 Aug 2022	Depth (m)	8
C6	30 Aug 2022	Arrive Time	904
C6	30 Aug 2022	Depart Time	910
C6	30 Aug 2022	Air Temp (C)	21.8
C6	30 Aug 2022	Weather	Haze
C6	30 Aug 2022	Visibility (mi)	8
C6	30 Aug 2022	Wind Speed (kts)	4.1
C6	30 Aug 2022	Wind Dir	N
C6	30 Aug 2022	Water Color	Green
C6	30 Aug 2022	Wave Ht Low (ft)	3
C6	30 Aug 2022	Wave Period (sec)	13
C6	30 Aug 2022	Sea State	Light Chop
C6	30 Aug 2022	High Tide (ft)	4.93
C6	30 Aug 2022	High Tide Time	1842
C6	30 Aug 2022	Low Tide (ft)	0.66
C6	30 Aug 2022	Low Tide Time	1218
C6	30 Aug 2022	Comments	Kelp
C7	02 Aug 2022	Depth (m)	18
C7	02 Aug 2022	Arrive Time	850
C7	02 Aug 2022	Depart Time	854
C7	02 Aug 2022	Air Temp (C)	21.3

Station	Date	Parameter	Value
C7	02 Aug 2022	Weather	Partly Cloudy
C7	02 Aug 2022	Visibility (mi)	8
C7	02 Aug 2022	Wind Speed (kts)	10.8
C7	02 Aug 2022	Wind Dir	NW
C7	02 Aug 2022	Water Color	Blueish-Green
C7	02 Aug 2022	Wave Ht Low (ft)	5
C7	02 Aug 2022	Wave Period (sec)	12
C7	02 Aug 2022	Sea State	Regular Swell
C7	02 Aug 2022	High Tide (ft)	4.91
C7	02 Aug 2022	High Tide Time	706
C7	02 Aug 2022	Low Tide (ft)	0.62
C7	02 Aug 2022	Low Tide Time	1336
C7	02 Aug 2022	Comments	Kelp
C7	08 Aug 2022	Depth (m)	18
C7	08 Aug 2022	Arrive Time	835
C7	08 Aug 2022	Depart Time	839
C7	08 Aug 2022	Air Temp (C)	17.9
C7	08 Aug 2022	Weather	Haze
C7	08 Aug 2022	Visibility (mi)	1
C7	08 Aug 2022	Wind Speed (kts)	6.7
C7	08 Aug 2022	Wind Dir	S
C7	08 Aug 2022	Water Color	Blue
C7	08 Aug 2022	Wave Ht Low (ft)	4.3
C7	08 Aug 2022	Wave Period (sec)	8
C7	08 Aug 2022	Sea State	Calm
C7	08 Aug 2022	High Tide (ft)	6.39
C7	08 Aug 2022	High Tide Time	142
C7	08 Aug 2022	Low Tide (ft)	-0.25
C7	08 Aug 2022	Low Tide Time	830
C7	08 Aug 2022	Comments	none
C7	15 Aug 2022	Depth (m)	17
C7	15 Aug 2022	Arrive Time	846
C7	15 Aug 2022	Depart Time	859
C7	15 Aug 2022	Air Temp (C)	21.5
C7	15 Aug 2022	Weather	Overcast
C7	15 Aug 2022	Visibility (mi)	4
C7	15 Aug 2022	Wind Speed (kts)	7.4
C7	15 Aug 2022	Wind Dir	NW
C7	15 Aug 2022	Water Color	Blueish-Green
C7	15 Aug 2022	Wave Ht Low (ft)	2
C7	15 Aug 2022	Wave Period (sec)	14
C7	15 Aug 2022	Sea State	Calm
C7	15 Aug 2022	High Tide (ft)	5.56
C7	15 Aug 2022	High Tide Time	706
C7	15 Aug 2022	Low Tide (ft)	0.15
C7	15 Aug 2022	Low Tide Time	1312
C7	15 Aug 2022	Comments	none
C7	23 Aug 2022	Depth (m)	18
C7	23 Aug 2022	Arrive Time	900
C7	23 Aug 2022	Depart Time	906
C7	23 Aug 2022	Air Temp (C)	20
C7	23 Aug 2022	Weather	Overcast
C7	23 Aug 2022	Visibility (mi)	7
C7	23 Aug 2022	Wind Speed (kts)	3.2
C7	23 Aug 2022	Wind Dir	S
C7	23 Aug 2022	Water Color	Blueish-Green
C7	23 Aug 2022	Wave Ht Low (ft)	3.3
C7	23 Aug 2022	Wave Period (sec)	18

Station	Date	Parameter	Value
C7	23 Aug 2022	Sea State	Regular Swell
C7	23 Aug 2022	High Tide (ft)	5.6
C7	23 Aug 2022	High Tide Time	236
C7	23 Aug 2022	Low Tide (ft)	0.11
C7	23 Aug 2022	Low Tide Time	924
C7	23 Aug 2022	Comments	none
C7	30 Aug 2022	Depth (m)	18
C7	30 Aug 2022	Arrive Time	833
C7	30 Aug 2022	Depart Time	838
C7	30 Aug 2022	Air Temp (C)	21
C7	30 Aug 2022	Weather	Haze
C7	30 Aug 2022	Visibility (mi)	8
C7	30 Aug 2022	Wind Speed (kts)	9.9
C7	30 Aug 2022	Wind Dir	N
C7	30 Aug 2022	Water Color	Blueish-Green
C7	30 Aug 2022	Wave Ht Low (ft)	3
C7	30 Aug 2022	Wave Period (sec)	13
C7	30 Aug 2022	Sea State	Light Chop
C7	30 Aug 2022	High Tide (ft)	4.93
C7	30 Aug 2022	High Tide Time	1842
C7	30 Aug 2022	Low Tide (ft)	0.66
C7	30 Aug 2022	Low Tide Time	1218
C7	30 Aug 2022	Comments	none
C8	02 Aug 2022	Depth (m)	19
C8	02 Aug 2022	Arrive Time	902
C8	02 Aug 2022	Depart Time	907
C8	02 Aug 2022	Air Temp (C)	21.5
C8	02 Aug 2022	Weather	Partly Cloudy
C8	02 Aug 2022	Visibility (mi)	8
C8	02 Aug 2022	Wind Speed (kts)	9.4
C8	02 Aug 2022	Wind Dir	NW
C8	02 Aug 2022	Water Color	Blueish-Green
C8	02 Aug 2022	Wave Ht Low (ft)	5
C8	02 Aug 2022	Wave Period (sec)	12
C8	02 Aug 2022	Sea State	Regular Swell
C8	02 Aug 2022	High Tide (ft)	4.91
C8	02 Aug 2022	High Tide Time	706
C8	02 Aug 2022	Low Tide (ft)	0.62
C8	02 Aug 2022	Low Tide Time	1336
C8	02 Aug 2022	Comments	none
C8	08 Aug 2022	Depth (m)	19
C8	08 Aug 2022	Arrive Time	846
C8	08 Aug 2022	Depart Time	852
C8	08 Aug 2022	Air Temp (C)	17.9
C8	08 Aug 2022	Weather	Haze
C8	08 Aug 2022	Visibility (mi)	1
C8	08 Aug 2022	Wind Speed (kts)	11
C8	08 Aug 2022	Wind Dir	SW
C8	08 Aug 2022	Water Color	Blueish-Green
C8	08 Aug 2022	Wave Ht Low (ft)	4.3
C8	08 Aug 2022	Wave Period (sec)	8
C8	08 Aug 2022	Sea State	Calm
C8	08 Aug 2022	High Tide (ft)	6.39
C8	08 Aug 2022	High Tide Time	142
C8	08 Aug 2022	Low Tide (ft)	-0.25
C8	08 Aug 2022	Low Tide Time	830
C8	08 Aug 2022	Comments	none

Station	Date	Parameter	Value
C8	15 Aug 2022	Depth (m)	19
C8	15 Aug 2022	Arrive Time	904
C8	15 Aug 2022	Depart Time	923
C8	15 Aug 2022	Air Temp (C)	21.6
C8	15 Aug 2022	Weather	Overcast
C8	15 Aug 2022	Visibility (mi)	4
C8	15 Aug 2022	Wind Speed (kts)	5.9
C8	15 Aug 2022	Wind Dir	NW
C8	15 Aug 2022	Water Color	Blueish-Green
C8	15 Aug 2022	Wave Ht Low (ft)	2
C8	15 Aug 2022	Wave Period (sec)	14
C8	15 Aug 2022	Sea State	Calm
C8	15 Aug 2022	High Tide (ft)	5.56
C8	15 Aug 2022	High Tide Time	706
C8	15 Aug 2022	Low Tide (ft)	0.15
C8	15 Aug 2022	Low Tide Time	1312
C8	15 Aug 2022	Comments	none
C8	23 Aug 2022	Depth (m)	19
C8	23 Aug 2022	Arrive Time	916
C8	23 Aug 2022	Depart Time	920
C8	23 Aug 2022	Air Temp (C)	20
C8	23 Aug 2022	Weather	Overcast
C8	23 Aug 2022	Visibility (mi)	7
C8	23 Aug 2022	Wind Speed (kts)	1.1
C8	23 Aug 2022	Wind Dir	S
C8	23 Aug 2022	Water Color	Blueish-Green
C8	23 Aug 2022	Wave Ht Low (ft)	3.3
C8	23 Aug 2022	Wave Period (sec)	18
C8	23 Aug 2022	Sea State	Regular Swell
C8	23 Aug 2022	High Tide (ft)	5.6
C8	23 Aug 2022	High Tide Time	236
C8	23 Aug 2022	Low Tide (ft)	0.11
C8	23 Aug 2022	Low Tide Time	924
C8	23 Aug 2022	Comments	none
C8	30 Aug 2022	Depth (m)	19
C8	30 Aug 2022	Arrive Time	845
C8	30 Aug 2022	Depart Time	852
C8	30 Aug 2022	Air Temp (C)	21
C8	30 Aug 2022	Weather	Haze
C8	30 Aug 2022	Visibility (mi)	8
C8	30 Aug 2022	Wind Speed (kts)	9.4
C8	30 Aug 2022	Wind Dir	NW
C8	30 Aug 2022	Water Color	Green
C8	30 Aug 2022	Wave Ht Low (ft)	3
C8	30 Aug 2022	Wave Period (sec)	13
C8	30 Aug 2022	Sea State	Light Chop
C8	30 Aug 2022	High Tide (ft)	4.93
C8	30 Aug 2022	High Tide Time	1842
C8	30 Aug 2022	Low Tide (ft)	0.66
C8	30 Aug 2022	Low Tide Time	1218
C8	30 Aug 2022	Comments	none

**Table 3.10**

Summary of CTD profile data from the PLOO kelp stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A1	02 Aug 2022	1	18.70	75.65	8.0	33.55	8.1	24.0	2.32
A1	02 Aug 2022	2	18.72	76.02	7.9	33.55	8.1	24.0	2.34
A1	02 Aug 2022	3	18.24	76.09	7.9	33.54	8.1	24.1	2.72
A1	02 Aug 2022	4	18.16	75.78	7.7	33.53	8.1	24.1	2.90
A1	02 Aug 2022	5	17.25	75.28	7.7	33.53	8.1	24.3	3.29
A1	02 Aug 2022	6	16.99	74.23	7.7	33.51	8.1	24.4	3.53
A1	02 Aug 2022	7	16.77	75.33	7.6	33.51	8.1	24.4	3.40
A1	02 Aug 2022	8	16.15	76.47	7.3	33.49	8.1	24.6	3.40
A1	02 Aug 2022	9	15.09	77.77	6.7	33.46	8.1	24.8	3.69
A1	02 Aug 2022	10	13.54	78.57	6.6	33.47	8.0	25.1	3.70
A1	02 Aug 2022	11	13.40	81.47	6.5	33.44	8.0	25.1	3.53
A1	02 Aug 2022	12	13.16	82.66	6.4	33.44	8.0	25.1	3.33
A1	02 Aug 2022	13	13.10	83.79	6.4	33.45	8.0	25.2	3.01
A1	02 Aug 2022	14	13.16	85.13	6.3	33.44	8.0	25.2	2.74
A1	02 Aug 2022	15	12.99	85.51	6.2	33.45	7.9	25.2	2.55
A1	02 Aug 2022	16	13.00	85.83	6.2	33.46	7.9	25.2	2.26
A1	02 Aug 2022	17	12.93	86.15	6.0	33.47	7.9	25.2	1.68
A1	02 Aug 2022	18	12.93	86.95	5.9	33.48	7.9	25.2	1.26
A1	08 Aug 2022	1	17.74	82.47	8.3	33.48	8.1	24.2	2.02
A1	08 Aug 2022	2	17.59	82.09	8.2	33.47	8.1	24.2	2.22
A1	08 Aug 2022	3	16.96	80.98	7.9	33.46	8.1	24.3	2.73
A1	08 Aug 2022	4	15.76	79.97	7.4	33.47	8.0	24.6	2.53
A1	08 Aug 2022	5	14.47	81.72	7.0	33.43	8.0	24.9	2.41
A1	08 Aug 2022	6	13.54	84.13	6.9	33.45	8.0	25.1	2.12
A1	08 Aug 2022	7	13.39	85.17	6.8	33.43	7.9	25.1	1.99
A1	08 Aug 2022	8	13.26	85.56	6.7	33.44	7.9	25.1	1.96
A1	08 Aug 2022	9	13.23	86.30	6.6	33.44	7.9	25.1	1.93
A1	08 Aug 2022	10	13.19	86.91	6.5	33.44	7.9	25.1	1.90
A1	08 Aug 2022	11	13.04	87.16	6.2	33.45	7.9	25.2	1.75
A1	08 Aug 2022	12	12.74	87.99	5.7	33.46	7.9	25.3	1.26
A1	08 Aug 2022	13	12.47	89.30	5.3	33.48	7.8	25.3	0.86
A1	08 Aug 2022	14	12.43	89.71	5.2	33.48	7.8	25.3	0.73
A1	08 Aug 2022	15	12.38	89.76	5.1	33.49	7.8	25.3	0.68
A1	08 Aug 2022	16	12.40	89.70	5.1	33.49	7.8	25.3	0.68
A1	08 Aug 2022	17	12.41	89.60	5.2	33.49	7.8	25.3	0.57
A1	08 Aug 2022	18	12.41	89.58	5.2	33.50	7.8	25.3	0.53
A1	15 Aug 2022	1	20.85	80.91	7.1	33.56	8.1	23.4	1.98
A1	15 Aug 2022	2	19.47	80.87	6.9	33.52	8.1	23.8	2.21
A1	15 Aug 2022	3	18.37	80.55	6.7	33.50	8.0	24.0	2.67
A1	15 Aug 2022	4	16.20	81.77	6.7	33.50	8.0	24.5	2.60
A1	15 Aug 2022	5	15.52	83.90	6.7	33.47	8.0	24.7	2.16
A1	15 Aug 2022	6	15.10	86.02	6.7	33.47	8.0	24.8	1.91
A1	15 Aug 2022	7	14.94	86.94	6.5	33.45	8.0	24.8	1.63
A1	15 Aug 2022	8	14.16	87.24	6.6	33.45	8.0	25.0	1.51
A1	15 Aug 2022	9	14.18	88.11	6.7	33.45	8.0	25.0	1.53
A1	15 Aug 2022	10	13.49	88.70	6.6	33.46	8.0	25.1	1.51
A1	15 Aug 2022	11	13.32	89.01	6.6	33.46	7.9	25.1	1.51
A1	15 Aug 2022	12	13.18	89.09	6.7	33.46	8.0	25.2	1.67
A1	15 Aug 2022	13	13.12	89.01	6.7	33.46	8.0	25.2	1.73
A1	15 Aug 2022	14	13.11	89.03	6.5	33.47	7.9	25.2	1.67
A1	15 Aug 2022	15	13.11	89.08	6.5	33.47	7.9	25.2	1.54
A1	15 Aug 2022	16	13.12	88.93	6.5	33.47	7.9	25.2	1.50
A1	15 Aug 2022	17	13.12	89.08	6.5	33.48	7.9	25.2	1.56
A1	15 Aug 2022	18	13.12	89.17	6.5	33.48	7.9	25.2	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
A1	15 Aug 2022	19	13.14	89.15	6.6	33.48	7.9	25.2	1.45
A1	23 Aug 2022	1	21.23	85.84	7.8	33.61	8.1	23.4	1.32
A1	23 Aug 2022	2	21.23	85.58	7.7	33.61	8.1	23.4	1.28
A1	23 Aug 2022	3	21.22	85.37	7.8	33.61	8.1	23.4	1.31
A1	23 Aug 2022	4	21.23	85.83	7.8	33.61	8.1	23.4	1.30
A1	23 Aug 2022	5	21.22	85.94	7.8	33.61	8.1	23.4	1.33
A1	23 Aug 2022	6	21.19	85.93	7.8	33.61	8.1	23.4	1.29
A1	23 Aug 2022	7	21.12	85.84	7.8	33.60	8.1	23.4	1.47
A1	23 Aug 2022	8	20.98	85.63	7.7	33.60	8.1	23.4	1.87
A1	23 Aug 2022	9	20.88	84.91	7.3	33.59	8.1	23.5	2.35
A1	23 Aug 2022	10	19.55	83.99	7.0	33.51	8.1	23.7	2.47
A1	23 Aug 2022	11	16.75	83.85	7.3	33.48	8.1	24.4	2.46
A1	23 Aug 2022	12	15.73	84.06	7.5	33.45	8.0	24.6	2.43
A1	23 Aug 2022	13	15.42	84.56	7.4	33.43	8.0	24.7	2.41
A1	23 Aug 2022	14	14.75	85.10	7.4	33.41	8.0	24.8	2.31
A1	23 Aug 2022	15	14.09	85.15	7.3	33.42	8.0	24.9	2.30
A1	23 Aug 2022	16	13.91	85.51	7.0	33.41	8.0	25.0	2.40
A1	23 Aug 2022	17	13.40	85.88	6.4	33.43	7.9	25.1	2.22
A1	23 Aug 2022	18	13.14	88.49	6.1	33.45	7.9	25.2	1.65
A1	30 Aug 2022	1	14.52	84.12	6.9	33.45	8.0	24.9	1.93
A1	30 Aug 2022	2	14.15	84.16	6.7	33.45	8.0	25.0	2.04
A1	30 Aug 2022	3	13.90	84.19	6.5	33.45	8.0	25.0	2.11
A1	30 Aug 2022	4	13.69	85.19	6.3	33.45	7.9	25.1	2.06
A1	30 Aug 2022	5	13.57	86.53	6.2	33.45	7.9	25.1	1.92
A1	30 Aug 2022	6	13.54	86.56	6.3	33.45	7.9	25.1	1.94
A1	30 Aug 2022	7	13.32	86.25	6.3	33.45	7.9	25.1	2.13
A1	30 Aug 2022	8	13.22	86.02	6.3	33.45	7.9	25.1	2.36
A1	30 Aug 2022	9	13.12	86.16	6.2	33.45	7.9	25.2	2.35
A1	30 Aug 2022	10	13.12	86.42	6.2	33.45	7.9	25.2	2.31
A1	30 Aug 2022	11	13.01	86.60	6.1	33.46	7.9	25.2	2.12
A1	30 Aug 2022	12	13.02	86.72	6.0	33.46	7.9	25.2	2.11
A1	30 Aug 2022	13	12.97	87.00	6.0	33.46	7.9	25.2	1.86
A1	30 Aug 2022	14	12.98	86.93	5.9	33.46	7.9	25.2	1.86
A1	30 Aug 2022	15	12.97	87.06	5.9	33.46	7.9	25.2	1.82
A1	30 Aug 2022	16	12.95	87.23	5.8	33.47	7.9	25.2	1.67
A1	30 Aug 2022	17	12.94	87.22	5.8	33.47	7.9	25.2	1.66
A1	30 Aug 2022	18	12.93	87.35	5.9	33.47	7.9	25.2	1.63
A1	30 Aug 2022	19	12.93	87.45	5.9	33.47	7.9	25.2	1.68
A6	02 Aug 2022	1	20.96	79.91	7.7	33.61	8.2	23.4	1.30
A6	02 Aug 2022	2	20.57	79.97	7.6	33.58	8.2	23.5	1.35
A6	02 Aug 2022	3	19.62	80.19	7.4	33.58	8.2	23.8	1.65
A6	02 Aug 2022	4	18.37	80.00	7.1	33.51	8.1	24.0	1.94
A6	02 Aug 2022	5	15.42	79.78	7.5	33.49	8.1	24.7	2.16
A6	02 Aug 2022	6	15.10	80.38	7.6	33.45	8.1	24.8	2.41
A6	02 Aug 2022	7	14.47	80.66	7.5	33.44	8.1	24.9	2.74
A6	02 Aug 2022	8	14.32	79.81	7.4	33.43	8.0	24.9	3.36
A6	02 Aug 2022	9	13.96	79.66	7.3	33.43	8.0	25.0	3.82
A6	02 Aug 2022	10	13.71	79.76	7.3	33.43	8.0	25.0	4.60
A6	02 Aug 2022	11	13.66	78.75	7.3	33.43	8.0	25.0	5.03
A6	02 Aug 2022	12	13.37	78.64	7.0	33.44	8.0	25.1	5.36
A6	02 Aug 2022	13	13.33	82.80	6.7	33.45	8.0	25.1	4.50
A6	02 Aug 2022	14	13.20	84.78	6.6	33.44	8.0	25.1	3.63
A6	02 Aug 2022	15	13.21	85.80	6.6	33.45	7.9	25.1	2.92
A6	02 Aug 2022	16	13.19	86.07	6.5	33.45	7.9	25.2	2.77
A6	02 Aug 2022	17	13.20	86.39	6.5	33.46	7.9	25.2	2.58
A6	02 Aug 2022	18	13.19	86.72	6.4	33.46	7.9	25.2	2.41
A6	08 Aug 2022	1	17.37	73.70	8.3	33.47	8.1	24.3	3.02

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A6	08 Aug 2022	2	17.11	73.16	8.2	33.48	8.1	24.3	3.77
A6	08 Aug 2022	3	16.74	72.32	8.1	33.46	8.1	24.4	3.64
A6	08 Aug 2022	4	16.28	78.61	8.0	33.46	8.1	24.5	3.02
A6	08 Aug 2022	5	15.89	81.38	7.8	33.47	8.1	24.6	2.88
A6	08 Aug 2022	6	15.47	81.84	7.3	33.43	8.0	24.7	3.13
A6	08 Aug 2022	7	14.52	81.67	6.9	33.44	8.0	24.9	3.65
A6	08 Aug 2022	8	14.17	81.27	6.7	33.46	8.0	25.0	3.92
A6	08 Aug 2022	9	14.36	83.79	6.4	33.44	7.9	24.9	3.88
A6	08 Aug 2022	10	13.40	88.21	6.0	33.45	7.9	25.1	2.74
A6	08 Aug 2022	11	12.93	89.45	5.6	33.45	7.9	25.2	1.59
A6	08 Aug 2022	12	12.76	89.83	5.4	33.47	7.8	25.3	1.11
A6	08 Aug 2022	13	12.73	90.11	5.2	33.46	7.8	25.3	0.86
A6	08 Aug 2022	14	12.42	90.24	5.0	33.48	7.8	25.3	0.79
A6	08 Aug 2022	15	12.35	90.36	5.0	33.48	7.8	25.3	0.64
A6	08 Aug 2022	16	12.13	90.25	4.9	33.49	7.8	25.4	0.60
A6	08 Aug 2022	17	12.12	90.49	4.8	33.49	7.8	25.4	0.63
A6	08 Aug 2022	18	12.12	90.45	4.8	33.50	7.8	25.4	0.65
A6	08 Aug 2022	19	12.07	90.46	4.8	33.51	7.8	25.4	0.62
A6	08 Aug 2022	20	12.11	90.41	4.8	33.51	7.8	25.4	0.56
A6	15 Aug 2022	1	21.93	83.44	7.7	33.57	8.1	23.2	1.51
A6	15 Aug 2022	2	21.81	83.55	7.7	33.57	8.1	23.2	1.61
A6	15 Aug 2022	3	21.19	83.35	7.2	33.55	8.1	23.3	1.88
A6	15 Aug 2022	4	17.68	83.06	7.0	33.52	8.1	24.2	3.06
A6	15 Aug 2022	5	16.49	80.26	6.7	33.49	8.0	24.5	4.44
A6	15 Aug 2022	6	15.44	81.62	6.2	33.47	8.0	24.7	2.97
A6	15 Aug 2022	7	14.26	86.03	6.0	33.47	7.9	24.9	1.59
A6	15 Aug 2022	8	14.00	87.59	5.8	33.45	7.9	25.0	0.97
A6	15 Aug 2022	9	13.43	87.10	5.9	33.45	7.9	25.1	0.83
A6	15 Aug 2022	10	13.17	87.86	6.3	33.45	7.9	25.2	1.03
A6	15 Aug 2022	11	12.81	89.61	6.3	33.45	7.9	25.2	1.03
A6	15 Aug 2022	12	12.77	90.11	6.4	33.45	7.9	25.2	1.09
A6	15 Aug 2022	13	12.74	90.19	6.4	33.46	7.9	25.2	1.09
A6	15 Aug 2022	14	12.72	90.28	6.3	33.47	7.9	25.3	1.18
A6	15 Aug 2022	15	12.76	90.36	6.3	33.47	7.9	25.3	1.19
A6	15 Aug 2022	16	12.69	90.20	6.3	33.48	7.9	25.3	1.29
A6	15 Aug 2022	17	12.66	90.24	6.2	33.48	7.9	25.3	1.33
A6	15 Aug 2022	18	12.64	90.36	6.1	33.48	7.9	25.3	1.23
A6	15 Aug 2022	19	12.64	90.12	6.1	33.49	7.9	25.3	1.11
A6	15 Aug 2022	20	12.64	90.49	6.1	33.49	7.9	25.3	1.10
A6	23 Aug 2022	1	21.89	85.29	7.5	33.63	8.2	23.2	1.81
A6	23 Aug 2022	2	21.78	85.07	7.4	33.63	8.2	23.2	1.99
A6	23 Aug 2022	3	20.88	84.43	7.3	33.60	8.2	23.5	3.03
A6	23 Aug 2022	4	19.61	82.83	7.3	33.55	8.1	23.8	3.68
A6	23 Aug 2022	5	17.89	82.55	7.4	33.52	8.1	24.2	3.32
A6	23 Aug 2022	6	17.24	82.59	7.2	33.47	8.1	24.3	3.49
A6	23 Aug 2022	7	15.43	82.09	6.9	33.46	8.0	24.7	3.19
A6	23 Aug 2022	8	14.90	83.53	6.7	33.45	8.0	24.8	2.28
A6	23 Aug 2022	9	14.69	85.62	7.0	33.43	8.0	24.8	1.97
A6	23 Aug 2022	10	14.33	86.29	7.1	33.43	8.0	24.9	2.24
A6	23 Aug 2022	11	14.13	86.13	6.7	33.44	8.0	25.0	2.24
A6	23 Aug 2022	12	14.10	87.22	6.4	33.44	7.9	25.0	1.63
A6	23 Aug 2022	13	13.99	88.13	6.2	33.44	7.9	25.0	1.30
A6	23 Aug 2022	14	13.75	88.68	6.1	33.45	7.9	25.0	1.12
A6	23 Aug 2022	15	13.65	89.12	5.9	33.46	7.9	25.1	1.07
A6	23 Aug 2022	16	13.57	89.41	5.8	33.46	7.9	25.1	0.98
A6	23 Aug 2022	17	13.31	89.54	5.7	33.46	7.9	25.1	0.95
A6	23 Aug 2022	18	13.16	89.73	5.6	33.46	7.9	25.2	0.91
A6	23 Aug 2022	19	13.09	89.66	5.6	33.47	7.9	25.2	0.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A6	30 Aug 2022	1	20.56	83.57	7.5	33.58	8.2	23.5	1.05
A6	30 Aug 2022	2	20.49	77.85	6.9	33.53	8.2	23.5	1.07
A6	30 Aug 2022	3	16.59	83.03	7.2	33.49	8.1	24.4	1.44
A6	30 Aug 2022	4	15.30	82.34	7.6	33.42	8.1	24.7	2.14
A6	30 Aug 2022	5	15.05	82.42	7.8	33.40	8.1	24.7	2.70
A6	30 Aug 2022	6	14.93	82.71	7.5	33.39	8.1	24.7	2.97
A6	30 Aug 2022	7	14.58	83.07	7.3	33.40	8.0	24.8	3.13
A6	30 Aug 2022	8	14.54	83.67	7.3	33.41	8.0	24.8	3.38
A6	30 Aug 2022	9	14.41	83.30	7.0	33.41	8.0	24.9	3.41
A6	30 Aug 2022	10	14.26	84.33	6.7	33.43	8.0	24.9	2.93
A6	30 Aug 2022	11	14.16	86.21	6.4	33.42	8.0	24.9	2.62
A6	30 Aug 2022	12	13.76	87.28	6.1	33.44	7.9	25.0	1.98
A6	30 Aug 2022	13	13.92	87.63	6.2	33.43	7.9	25.0	1.92
A6	30 Aug 2022	14	13.52	87.01	6.2	33.44	7.9	25.1	2.13
A6	30 Aug 2022	15	13.46	86.61	6.2	33.44	7.9	25.1	2.27
A6	30 Aug 2022	16	13.41	87.01	6.1	33.45	7.9	25.1	2.13
A6	30 Aug 2022	17	13.37	87.49	6.1	33.45	7.9	25.1	1.97
A6	30 Aug 2022	18	13.33	87.90	6.0	33.45	7.9	25.1	1.78
A7	02 Aug 2022	1	19.41	80.18	7.7	33.56	8.1	23.8	1.50
A7	02 Aug 2022	2	18.64	79.35	7.6	33.55	8.1	24.0	1.77
A7	02 Aug 2022	3	17.32	79.94	7.6	33.51	8.1	24.3	2.06
A7	02 Aug 2022	4	16.74	79.42	7.7	33.50	8.1	24.4	2.54
A7	02 Aug 2022	5	16.76	79.05	7.6	33.49	8.1	24.4	2.73
A7	02 Aug 2022	6	16.46	79.18	7.7	33.49	8.1	24.5	2.91
A7	02 Aug 2022	7	16.52	79.57	7.7	33.49	8.1	24.5	3.06
A7	02 Aug 2022	8	16.50	79.60	7.7	33.50	8.1	24.5	3.08
A7	02 Aug 2022	9	16.32	79.66	7.7	33.50	8.1	24.5	3.14
A7	02 Aug 2022	10	16.41	79.46	7.7	33.49	8.0	24.5	3.19
A7	02 Aug 2022	11	16.31	79.66	7.5	33.49	8.0	24.5	3.20
A7	02 Aug 2022	12	15.37	79.87	7.3	33.48	8.0	24.7	3.27
A7	02 Aug 2022	13	14.99	80.57	7.2	33.48	8.0	24.8	3.15
A7	02 Aug 2022	14	14.73	81.55	6.7	33.47	8.0	24.8	2.89
A7	02 Aug 2022	15	13.84	83.87	6.2	33.47	7.9	25.0	2.29
A7	02 Aug 2022	16	13.38	86.34	6.0	33.46	7.9	25.1	1.60
A7	02 Aug 2022	17	13.08	87.51	5.9	33.46	7.9	25.2	1.26
A7	02 Aug 2022	18	13.37	87.09	5.8	33.46	7.9	25.1	1.09
A7	08 Aug 2022	1	17.57	78.83	8.5	33.47	8.1	24.2	2.34
A7	08 Aug 2022	2	17.50	78.91	8.4	33.47	8.1	24.2	2.58
A7	08 Aug 2022	3	17.20	78.60	8.2	33.47	8.1	24.3	2.51
A7	08 Aug 2022	4	16.57	79.67	7.8	33.45	8.1	24.4	2.57
A7	08 Aug 2022	5	15.70	81.11	7.4	33.45	8.1	24.6	2.81
A7	08 Aug 2022	6	14.69	81.65	6.9	33.45	8.0	24.8	3.01
A7	08 Aug 2022	7	14.28	82.69	6.4	33.45	8.0	24.9	2.78
A7	08 Aug 2022	8	14.02	85.07	6.1	33.44	7.9	25.0	2.36
A7	08 Aug 2022	9	13.68	85.68	5.9	33.45	7.9	25.1	1.83
A7	08 Aug 2022	10	13.55	87.19	5.8	33.46	7.9	25.1	1.42
A7	08 Aug 2022	11	13.36	87.35	5.6	33.44	7.9	25.1	1.19
A7	08 Aug 2022	12	13.15	88.30	5.5	33.45	7.9	25.2	1.01
A7	08 Aug 2022	13	12.97	88.92	5.5	33.46	7.8	25.2	0.87
A7	08 Aug 2022	14	12.84	89.45	5.4	33.46	7.8	25.2	0.81
A7	08 Aug 2022	15	12.68	89.68	5.2	33.47	7.8	25.3	0.68
A7	08 Aug 2022	16	12.50	89.81	5.1	33.47	7.8	25.3	0.64
A7	08 Aug 2022	17	12.32	90.02	5.0	33.49	7.8	25.4	0.68
A7	08 Aug 2022	18	12.26	90.10	4.9	33.48	7.8	25.4	0.56
A7	08 Aug 2022	19	12.12	90.01	4.8	33.50	7.8	25.4	0.49
A7	15 Aug 2022	1	22.59	84.29	7.6	33.60	8.2	23.0	1.35
A7	15 Aug 2022	2	22.57	84.26	7.5	33.60	8.2	23.0	1.37
A7	15 Aug 2022	3	21.72	84.04	7.4	33.57	8.2	23.2	1.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
A7	15 Aug 2022	4	19.50	83.87	7.5	33.51	8.1	23.8	2.02
A7	15 Aug 2022	5	17.61	83.84	7.2	33.50	8.1	24.2	2.18
A7	15 Aug 2022	6	15.81	83.80	6.5	33.49	8.0	24.6	2.54
A7	15 Aug 2022	7	14.83	84.09	6.1	33.47	8.0	24.8	1.64
A7	15 Aug 2022	8	14.08	85.69	5.9	33.45	7.9	25.0	1.07
A7	15 Aug 2022	9	13.54	86.72	5.9	33.45	7.9	25.1	0.91
A7	15 Aug 2022	10	13.18	87.95	6.1	33.45	7.9	25.2	0.88
A7	15 Aug 2022	11	13.04	88.70	6.4	33.45	7.9	25.2	1.10
A7	15 Aug 2022	12	13.02	89.39	6.4	33.45	8.0	25.2	1.41
A7	15 Aug 2022	13	13.01	89.57	6.3	33.46	7.9	25.2	1.40
A7	15 Aug 2022	14	12.97	89.47	6.1	33.47	7.9	25.2	1.22
A7	15 Aug 2022	15	12.86	89.40	6.0	33.47	7.9	25.2	1.17
A7	15 Aug 2022	16	12.77	89.56	6.1	33.47	7.9	25.3	1.14
A7	15 Aug 2022	17	12.79	89.61	6.1	33.48	7.9	25.3	1.13
A7	15 Aug 2022	18	12.80	89.69	6.1	33.48	7.9	25.3	1.13
A7	15 Aug 2022	19	12.77	89.69	6.0	33.49	7.9	25.3	1.01
A7	23 Aug 2022	1	21.52	84.60	7.8	33.63	8.2	23.3	1.99
A7	23 Aug 2022	2	21.54	84.37	7.8	33.63	8.2	23.3	2.04
A7	23 Aug 2022	3	21.35	84.46	7.8	33.61	8.2	23.3	2.22
A7	23 Aug 2022	4	20.56	84.33	7.7	33.57	8.2	23.5	2.73
A7	23 Aug 2022	5	19.49	83.07	7.7	33.55	8.2	23.8	3.54
A7	23 Aug 2022	6	18.31	82.13	7.6	33.49	8.1	24.0	3.48
A7	23 Aug 2022	7	17.04	83.18	7.6	33.46	8.1	24.3	2.79
A7	23 Aug 2022	8	16.08	83.59	7.6	33.46	8.1	24.5	2.51
A7	23 Aug 2022	9	15.78	84.20	7.6	33.41	8.1	24.6	2.37
A7	23 Aug 2022	10	14.77	84.87	7.7	33.41	8.1	24.8	2.50
A7	23 Aug 2022	11	14.54	85.85	7.7	33.42	8.0	24.9	2.41
A7	23 Aug 2022	12	14.48	86.06	7.6	33.43	8.0	24.9	2.24
A7	23 Aug 2022	13	14.20	86.05	7.4	33.42	8.0	24.9	2.29
A7	23 Aug 2022	14	13.98	86.00	7.2	33.43	8.0	25.0	2.37
A7	23 Aug 2022	15	13.81	85.96	7.0	33.43	8.0	25.0	2.37
A7	23 Aug 2022	16	13.69	85.99	6.7	33.45	8.0	25.0	2.23
A7	23 Aug 2022	17	13.66	87.46	6.5	33.43	7.9	25.0	2.16
A7	23 Aug 2022	18	13.28	88.33	6.0	33.45	7.9	25.1	1.49
A7	23 Aug 2022	19	13.25	89.05	5.8	33.46	7.9	25.1	1.25
A7	30 Aug 2022	1	18.54	83.76	7.2	33.51	8.1	24.0	1.61
A7	30 Aug 2022	2	17.42	83.62	7.2	33.49	8.1	24.3	1.82
A7	30 Aug 2022	3	16.06	83.16	7.5	33.44	8.1	24.5	2.20
A7	30 Aug 2022	4	15.42	83.77	8.0	33.42	8.1	24.7	2.23
A7	30 Aug 2022	5	15.18	85.51	7.7	33.39	8.1	24.7	2.19
A7	30 Aug 2022	6	14.61	85.25	7.3	33.42	8.0	24.8	2.39
A7	30 Aug 2022	7	14.47	84.25	7.0	33.41	8.0	24.9	2.67
A7	30 Aug 2022	8	14.17	83.89	6.8	33.42	8.0	24.9	2.87
A7	30 Aug 2022	9	14.11	84.62	6.7	33.42	8.0	24.9	2.85
A7	30 Aug 2022	10	13.82	85.20	6.6	33.42	8.0	25.0	2.62
A7	30 Aug 2022	11	13.81	85.71	6.5	33.43	8.0	25.0	2.43
A7	30 Aug 2022	12	13.78	85.78	6.5	33.43	8.0	25.0	2.45
A7	30 Aug 2022	13	13.64	85.90	6.4	33.44	7.9	25.1	2.35
A7	30 Aug 2022	14	13.53	86.13	6.3	33.44	7.9	25.1	2.22
A7	30 Aug 2022	15	13.48	86.59	6.1	33.45	7.9	25.1	1.76
A7	30 Aug 2022	16	13.50	87.82	6.1	33.45	7.9	25.1	1.66
A7	30 Aug 2022	17	13.46	88.00	6.0	33.45	7.9	25.1	1.52
A7	30 Aug 2022	18	13.32	88.26	5.8	33.46	7.9	25.1	1.31
A7	30 Aug 2022	19	13.26	88.43	5.7	33.46	7.9	25.1	1.17
C4	02 Aug 2022	1	21.02	77.75	7.7	33.59	8.2	23.4	0.92
C4	02 Aug 2022	2	20.55	78.35	7.2	33.58	8.2	23.5	1.06
C4	02 Aug 2022	3	19.27	78.76	6.9	33.53	8.1	23.8	1.76
C4	02 Aug 2022	4	17.18	76.33	6.8	33.49	8.1	24.3	2.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C4	02 Aug 2022	5	16.04	75.07	6.6	33.48	8.1	24.6	3.29
C4	02 Aug 2022	6	15.49	75.37	6.2	33.48	8.0	24.7	3.76
C4	02 Aug 2022	7	15.06	76.74	5.7	33.45	8.0	24.8	3.56
C4	02 Aug 2022	8	14.62	79.65	5.2	33.45	7.9	24.9	2.35
C4	02 Aug 2022	9	14.29	79.58	5.0	33.46	7.9	24.9	1.37
C4	02 Aug 2022	10	14.19	73.67	4.8	33.46	7.8	25.0	0.95
C4	02 Aug 2022	11	14.08	65.31	4.8	33.46	7.8	25.0	0.71
C4	02 Aug 2022	12	14.19	58.17	4.8	33.46	7.8	25.0	0.61
C4	08 Aug 2022	1	16.84	72.56	7.4	33.47	8.0	24.4	3.61
C4	08 Aug 2022	2	16.83	72.26	7.2	33.47	8.0	24.4	4.01
C4	08 Aug 2022	3	16.58	66.90	6.9	33.48	8.0	24.4	5.22
C4	08 Aug 2022	4	16.01	64.36	6.7	33.47	8.0	24.6	5.22
C4	08 Aug 2022	5	15.22	68.31	6.1	33.47	8.0	24.7	5.24
C4	08 Aug 2022	6	14.55	76.37	5.4	33.48	7.9	24.9	3.84
C4	08 Aug 2022	7	14.14	79.41	4.7	33.47	7.9	25.0	1.97
C4	08 Aug 2022	8	13.67	82.70	4.1	33.47	7.8	25.1	1.05
C4	08 Aug 2022	9	13.41	81.40	3.8	33.47	7.8	25.1	0.67
C4	08 Aug 2022	10	13.26	79.53	3.7	33.47	7.7	25.2	0.47
C4	08 Aug 2022	11	13.25	76.66	3.7	33.47	7.7	25.2	0.44
C4	15 Aug 2022	1	21.13	73.58	6.3	33.54	8.1	23.3	1.78
C4	15 Aug 2022	2	19.44	74.39	6.5	33.53	8.1	23.8	2.61
C4	15 Aug 2022	3	17.29	77.19	6.9	33.50	8.1	24.3	3.23
C4	15 Aug 2022	4	16.17	83.96	6.8	33.48	8.0	24.5	2.24
C4	15 Aug 2022	5	15.63	85.50	6.6	33.47	8.0	24.7	1.73
C4	15 Aug 2022	6	14.83	85.98	6.2	33.47	8.0	24.8	1.37
C4	15 Aug 2022	7	14.45	85.48	5.9	33.47	7.9	24.9	1.00
C4	15 Aug 2022	8	14.24	84.65	5.8	33.47	7.9	25.0	0.84
C4	15 Aug 2022	9	13.97	81.94	5.7	33.48	7.9	25.0	0.73
C4	15 Aug 2022	10	13.98	77.97	5.6	33.48	7.9	25.0	0.69
C4	15 Aug 2022	11	13.91	76.60	5.6	33.48	7.9	25.0	0.66
C4	23 Aug 2022	1	20.78	84.85	8.0	33.59	8.2	23.5	1.38
C4	23 Aug 2022	2	20.58	84.69	8.0	33.58	8.2	23.5	1.57
C4	23 Aug 2022	3	20.12	84.15	8.0	33.56	8.2	23.6	2.08
C4	23 Aug 2022	4	19.81	83.39	8.0	33.56	8.2	23.7	2.64
C4	23 Aug 2022	5	19.75	83.11	7.8	33.55	8.1	23.7	2.91
C4	23 Aug 2022	6	19.20	83.14	6.4	33.49	8.1	23.8	2.91
C4	23 Aug 2022	7	16.32	83.30	4.5	33.49	8.0	24.5	2.03
C4	23 Aug 2022	8	15.28	83.91	3.7	33.48	7.8	24.7	1.06
C4	23 Aug 2022	9	15.00	82.29	3.8	33.45	7.8	24.8	0.61
C4	23 Aug 2022	10	14.72	78.08	4.0	33.46	7.8	24.8	0.50
C4	30 Aug 2022	1	21.18	81.66	6.9	33.61	8.2	23.4	0.73
C4	30 Aug 2022	2	20.51	80.92	6.7	33.59	8.1	23.6	0.83
C4	30 Aug 2022	3	19.62	79.34	6.2	33.54	8.1	23.7	1.33
C4	30 Aug 2022	4	17.46	80.24	5.8	33.47	8.1	24.2	2.16
C4	30 Aug 2022	5	16.75	83.61	5.5	33.47	8.0	24.4	2.25
C4	30 Aug 2022	6	15.72	86.48	5.1	33.45	8.0	24.6	1.88
C4	30 Aug 2022	7	14.99	87.32	4.9	33.45	7.9	24.8	1.15
C4	30 Aug 2022	8	14.75	87.35	4.8	33.44	7.9	24.8	0.77
C4	30 Aug 2022	9	14.32	86.56	4.8	33.44	7.9	24.9	0.58
C4	30 Aug 2022	10	14.26	83.09	5.0	33.44	7.9	24.9	0.56
C4	30 Aug 2022	11	14.21	80.81	5.0	33.44	7.9	24.9	0.46
C4	30 Aug 2022	12	14.23	79.45	5.0	33.45	7.9	24.9	0.45
C5	02 Aug 2022	1	21.13	78.30	7.5	33.60	8.2	23.4	0.79
C5	02 Aug 2022	2	20.69	77.93	7.3	33.59	8.2	23.5	0.87
C5	02 Aug 2022	3	20.14	76.32	7.2	33.57	8.2	23.6	1.13
C5	02 Aug 2022	4	18.72	76.63	6.9	33.55	8.2	24.0	1.67

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C5	02 Aug 2022	5	16.90	78.55	6.3	33.52	8.1	24.4	2.20
C5	02 Aug 2022	6	15.93	79.74	5.9	33.50	8.0	24.6	2.22
C5	02 Aug 2022	7	15.48	82.61	5.5	33.48	8.0	24.7	1.71
C5	02 Aug 2022	8	15.16	85.06	5.4	33.48	7.9	24.8	1.19
C5	02 Aug 2022	9	14.82	84.11	5.9	33.46	7.9	24.8	1.44
C5	02 Aug 2022	10	14.17	82.85	6.2	33.47	8.0	25.0	1.26
C5	02 Aug 2022	11	14.13	83.08	6.2	33.47	7.9	25.0	1.00
C5	08 Aug 2022	1	17.35	76.53	8.0	33.48	8.1	24.3	2.10
C5	08 Aug 2022	2	17.26	76.66	7.9	33.47	8.1	24.3	2.36
C5	08 Aug 2022	3	16.72	75.41	7.9	33.47	8.1	24.4	3.47
C5	08 Aug 2022	4	16.30	73.50	7.7	33.47	8.1	24.5	3.65
C5	08 Aug 2022	5	15.67	78.34	7.0	33.45	8.1	24.6	3.54
C5	08 Aug 2022	6	14.79	80.21	6.3	33.45	8.0	24.8	3.42
C5	08 Aug 2022	7	14.34	81.46	6.0	33.47	7.9	24.9	2.56
C5	08 Aug 2022	8	14.24	84.93	5.7	33.46	7.9	24.9	1.57
C5	08 Aug 2022	9	13.90	85.46	5.3	33.45	7.9	25.0	1.07
C5	08 Aug 2022	10	13.60	84.75	5.2	33.48	7.8	25.1	0.80
C5	15 Aug 2022	1	21.74	75.70	7.1	33.56	8.1	23.2	1.84
C5	15 Aug 2022	2	21.41	74.82	7.0	33.55	8.1	23.3	2.10
C5	15 Aug 2022	3	20.50	75.98	6.3	33.50	8.1	23.5	2.66
C5	15 Aug 2022	4	18.12	73.80	6.2	33.51	8.0	24.1	3.01
C5	15 Aug 2022	5	17.29	76.51	6.0	33.49	8.0	24.3	2.55
C5	15 Aug 2022	6	16.17	81.16	5.8	33.48	8.0	24.5	1.45
C5	15 Aug 2022	7	15.59	81.93	5.7	33.47	7.9	24.7	0.84
C5	15 Aug 2022	8	14.84	82.86	5.7	33.47	7.9	24.8	0.68
C5	15 Aug 2022	9	14.32	83.66	5.5	33.45	7.9	24.9	0.66
C5	15 Aug 2022	10	13.78	77.46	5.5	33.48	7.9	25.1	0.65
C5	15 Aug 2022	11	13.77	72.14	5.5	33.47	7.9	25.1	0.68
C5	23 Aug 2022	1	21.80	84.90	7.5	33.63	8.2	23.2	1.32
C5	23 Aug 2022	2	21.76	84.85	7.4	33.61	8.2	23.2	1.41
C5	23 Aug 2022	3	20.78	84.74	7.6	33.59	8.2	23.5	2.53
C5	23 Aug 2022	4	20.04	84.38	7.5	33.56	8.2	23.7	4.21
C5	23 Aug 2022	5	19.04	81.69	7.3	33.51	8.1	23.9	4.19
C5	23 Aug 2022	6	17.88	81.86	6.9	33.51	8.1	24.2	4.08
C5	23 Aug 2022	7	16.94	81.38	6.3	33.48	8.0	24.4	3.47
C5	23 Aug 2022	8	16.17	83.27	5.8	33.46	8.0	24.5	2.22
C5	23 Aug 2022	9	15.36	86.73	5.8	33.45	7.9	24.7	1.25
C5	23 Aug 2022	10	14.94	86.90	6.1	33.45	7.9	24.8	0.81
C5	30 Aug 2022	1	20.67	79.66	7.0	33.58	8.1	23.5	0.74
C5	30 Aug 2022	2	20.34	80.37	6.7	33.56	8.1	23.6	0.80
C5	30 Aug 2022	3	17.99	80.86	6.8	33.49	8.1	24.1	1.44
C5	30 Aug 2022	4	15.90	81.65	7.0	33.47	8.1	24.6	2.25
C5	30 Aug 2022	5	16.27	83.80	6.7	33.43	8.0	24.5	2.46
C5	30 Aug 2022	6	15.29	85.94	6.6	33.44	8.0	24.7	2.00
C5	30 Aug 2022	7	15.26	87.15	6.4	33.44	8.0	24.7	1.73
C5	30 Aug 2022	8	14.95	87.25	6.2	33.43	8.0	24.8	1.66
C5	30 Aug 2022	9	14.69	88.09	6.1	33.44	8.0	24.8	1.25
C5	30 Aug 2022	10	14.05	87.95	5.8	33.45	7.9	25.0	0.94
C5	30 Aug 2022	11	13.92	85.16	5.6	33.45	7.9	25.0	0.81
C6	02 Aug 2022	1	21.04	81.26	7.9	33.60	8.2	23.4	0.93
C6	02 Aug 2022	2	20.99	81.23	7.7	33.60	8.2	23.4	0.93
C6	02 Aug 2022	3	20.18	80.78	7.1	33.59	8.2	23.6	1.09
C6	02 Aug 2022	4	17.41	79.68	6.9	33.53	8.1	24.3	1.77
C6	02 Aug 2022	5	15.13	78.01	7.0	33.48	8.1	24.8	2.23
C6	02 Aug 2022	6	14.67	79.97	6.9	33.46	8.0	24.9	3.51
C6	02 Aug 2022	7	14.49	79.68	6.5	33.45	8.0	24.9	3.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
C6	02 Aug 2022	8	14.10	83.05	6.3	33.46	8.0	25.0	1.90
C6	02 Aug 2022	9	13.97	81.32	6.2	33.46	7.9	25.0	0.96
C6	02 Aug 2022	10	13.96	80.35	6.2	33.47	7.9	25.0	0.59
C6	08 Aug 2022	1	17.32	73.98	8.7	33.48	8.1	24.3	2.87
C6	08 Aug 2022	2	17.21	72.50	8.7	33.48	8.1	24.3	4.03
C6	08 Aug 2022	3	17.17	70.03	8.6	33.48	8.1	24.3	4.99
C6	08 Aug 2022	4	17.13	68.88	8.3	33.48	8.1	24.3	5.47
C6	08 Aug 2022	5	16.94	65.83	8.0	33.48	8.1	24.4	5.41
C6	08 Aug 2022	6	16.81	68.84	7.8	33.48	8.1	24.4	5.20
C6	08 Aug 2022	7	16.65	71.37	7.5	33.48	8.1	24.4	5.06
C6	08 Aug 2022	8	15.76	73.11	6.9	33.54	8.1	24.7	5.10
C6	08 Aug 2022	9	14.63	82.94	6.3	33.52	8.1	24.9	4.50
C6	15 Aug 2022	1	21.55	76.67	7.1	33.57	8.1	23.3	1.86
C6	15 Aug 2022	2	21.44	76.08	6.9	33.56	8.1	23.3	2.05
C6	15 Aug 2022	3	20.81	74.63	6.2	33.55	8.1	23.4	2.05
C6	15 Aug 2022	4	19.14	73.47	5.8	33.53	8.0	23.9	2.06
C6	15 Aug 2022	5	18.17	74.21	5.4	33.50	8.0	24.1	1.60
C6	15 Aug 2022	6	15.96	76.02	5.3	33.49	7.9	24.6	0.97
C6	15 Aug 2022	7	14.85	78.73	5.5	33.47	7.9	24.8	0.68
C6	15 Aug 2022	8	14.13	81.14	5.4	33.46	7.9	25.0	0.60
C6	15 Aug 2022	9	13.76	71.48	5.3	33.46	7.9	25.1	0.58
C6	23 Aug 2022	1	22.35	82.31	7.0	33.64	8.1	23.1	0.86
C6	23 Aug 2022	2	21.92	81.93	7.0	33.61	8.1	23.2	0.98
C6	23 Aug 2022	3	21.11	81.99	6.9	33.60	8.1	23.4	1.41
C6	23 Aug 2022	4	20.21	83.83	6.8	33.56	8.1	23.6	2.09
C6	23 Aug 2022	5	18.39	82.63	7.2	33.50	8.1	24.0	2.36
C6	23 Aug 2022	6	17.23	82.82	7.0	33.48	8.1	24.3	2.19
C6	23 Aug 2022	7	16.47	83.73	6.7	33.45	8.0	24.5	1.45
C6	23 Aug 2022	8	15.36	86.44	6.5	33.43	8.0	24.7	0.88
C6	23 Aug 2022	9	15.01	85.39	6.3	33.44	7.9	24.8	0.56
C6	30 Aug 2022	1	19.00	83.02	7.4	33.55	8.1	23.9	1.39
C6	30 Aug 2022	2	18.83	82.67	6.9	33.48	8.1	23.9	1.43
C6	30 Aug 2022	3	15.92	82.38	7.3	33.49	8.1	24.6	1.64
C6	30 Aug 2022	4	16.32	81.45	7.3	33.46	8.1	24.5	2.02
C6	30 Aug 2022	5	15.49	80.47	7.2	33.45	8.1	24.7	2.47
C6	30 Aug 2022	6	15.38	80.90	7.1	33.45	8.1	24.7	3.02
C6	30 Aug 2022	7	15.28	82.92	6.9	33.45	8.0	24.7	2.97
C6	30 Aug 2022	8	14.90	84.50	6.6	33.44	8.0	24.8	2.67
C6	30 Aug 2022	9	14.57	86.61	6.3	33.46	8.0	24.9	1.85
C7	02 Aug 2022	1	21.17	76.86	8.1	33.60	8.2	23.4	1.78
C7	02 Aug 2022	2	20.89	77.18	7.9	33.60	8.2	23.5	1.82
C7	02 Aug 2022	3	19.66	77.41	7.9	33.60	8.2	23.8	1.92
C7	02 Aug 2022	4	18.14	78.25	7.6	33.58	8.2	24.1	2.03
C7	02 Aug 2022	5	16.17	79.91	7.3	33.56	8.1	24.6	2.18
C7	02 Aug 2022	6	15.22	80.94	7.1	33.51	8.1	24.8	2.45
C7	02 Aug 2022	7	14.67	81.13	6.9	33.48	8.0	24.9	2.86
C7	02 Aug 2022	8	14.51	80.87	6.6	33.47	8.0	24.9	3.24
C7	02 Aug 2022	9	13.94	81.27	6.4	33.48	8.0	25.0	3.54
C7	02 Aug 2022	10	13.70	81.91	6.1	33.47	7.9	25.1	3.58
C7	02 Aug 2022	11	13.40	82.85	5.8	33.47	7.9	25.1	3.32
C7	02 Aug 2022	12	13.17	85.61	5.6	33.48	7.9	25.2	2.45
C7	02 Aug 2022	13	12.94	87.69	5.4	33.48	7.9	25.2	1.47
C7	02 Aug 2022	14	12.87	87.79	5.3	33.48	7.9	25.2	0.92
C7	02 Aug 2022	15	12.76	87.48	5.3	33.48	7.9	25.3	0.76
C7	02 Aug 2022	16	12.68	87.37	5.3	33.48	7.8	25.3	0.67
C7	02 Aug 2022	17	12.56	87.06	5.4	33.49	7.8	25.3	0.59

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C7	02 Aug 2022	18	12.54	85.63	5.4	33.49	7.8	25.3	0.52
C7	08 Aug 2022	1	16.80	69.45	8.3	33.48	8.1	24.4	4.24
C7	08 Aug 2022	2	16.45	67.63	8.1	33.48	8.1	24.5	5.26
C7	08 Aug 2022	3	16.12	68.55	7.9	33.47	8.1	24.5	5.94
C7	08 Aug 2022	4	15.88	70.94	7.6	33.46	8.1	24.6	5.69
C7	08 Aug 2022	5	15.32	74.00	7.3	33.47	8.0	24.7	4.90
C7	08 Aug 2022	6	15.23	78.58	7.1	33.46	8.0	24.7	4.26
C7	08 Aug 2022	7	14.90	79.43	6.9	33.45	8.0	24.8	3.99
C7	08 Aug 2022	8	14.62	80.57	6.7	33.46	8.0	24.9	3.62
C7	08 Aug 2022	9	14.16	81.70	6.3	33.44	8.0	25.0	3.71
C7	08 Aug 2022	10	13.63	81.94	6.0	33.46	7.9	25.1	4.14
C7	08 Aug 2022	11	13.42	82.92	5.8	33.45	7.9	25.1	3.85
C7	08 Aug 2022	12	13.05	84.92	5.7	33.46	7.9	25.2	2.99
C7	08 Aug 2022	13	12.88	87.28	5.5	33.47	7.9	25.2	2.08
C7	08 Aug 2022	14	12.75	88.61	5.3	33.47	7.8	25.3	1.32
C7	08 Aug 2022	15	12.62	89.18	5.1	33.47	7.8	25.3	1.02
C7	08 Aug 2022	16	12.42	89.31	5.0	33.49	7.8	25.3	0.84
C7	08 Aug 2022	17	12.40	89.11	5.0	33.49	7.8	25.3	0.75
C7	08 Aug 2022	18	12.38	89.04	5.0	33.49	7.8	25.3	0.58
C7	15 Aug 2022	1	22.70	87.35	7.8	33.60	8.2	23.0	0.78
C7	15 Aug 2022	2	22.72	87.41	7.7	33.61	8.2	23.0	0.81
C7	15 Aug 2022	3	22.59	87.38	7.6	33.60	8.2	23.0	0.84
C7	15 Aug 2022	4	21.61	87.38	7.3	33.56	8.2	23.2	1.10
C7	15 Aug 2022	5	18.63	85.22	7.0	33.51	8.1	24.0	1.44
C7	15 Aug 2022	6	16.15	83.40	7.4	33.47	8.1	24.5	1.70
C7	15 Aug 2022	7	15.66	84.73	7.7	33.44	8.1	24.6	1.75
C7	15 Aug 2022	8	15.56	85.56	7.7	33.42	8.1	24.6	1.84
C7	15 Aug 2022	9	15.23	85.70	7.7	33.43	8.1	24.7	1.84
C7	15 Aug 2022	10	15.05	85.98	7.7	33.43	8.1	24.8	1.84
C7	15 Aug 2022	11	14.81	86.33	7.7	33.44	8.1	24.8	1.93
C7	15 Aug 2022	12	14.71	86.38	7.4	33.44	8.0	24.8	1.97
C7	15 Aug 2022	13	13.93	86.43	7.0	33.46	8.0	25.0	1.93
C7	15 Aug 2022	14	13.91	86.69	6.8	33.46	8.0	25.0	1.96
C7	15 Aug 2022	15	13.91	86.95	6.7	33.46	8.0	25.0	2.03
C7	15 Aug 2022	16	13.88	87.02	6.5	33.47	8.0	25.0	1.74
C7	15 Aug 2022	17	13.16	87.86	5.9	33.48	7.9	25.2	1.25
C7	15 Aug 2022	18	12.99	87.77	5.6	33.49	7.9	25.2	0.87
C7	23 Aug 2022	1	22.23	82.42	7.4	33.64	8.1	23.1	1.70
C7	23 Aug 2022	2	22.25	81.03	7.4	33.63	8.1	23.1	1.89
C7	23 Aug 2022	3	21.64	82.52	7.4	33.60	8.1	23.3	2.16
C7	23 Aug 2022	4	20.89	82.86	7.6	33.58	8.1	23.4	2.75
C7	23 Aug 2022	5	20.23	81.94	7.5	33.54	8.1	23.6	2.64
C7	23 Aug 2022	6	18.55	82.54	7.4	33.47	8.1	24.0	2.26
C7	23 Aug 2022	7	16.42	84.39	7.2	33.45	8.1	24.5	2.47
C7	23 Aug 2022	8	15.62	83.68	7.2	33.45	8.0	24.6	2.61
C7	23 Aug 2022	9	15.25	84.01	7.1	33.43	8.0	24.7	2.44
C7	23 Aug 2022	10	14.78	86.33	7.0	33.42	8.0	24.8	2.06
C7	23 Aug 2022	11	14.38	87.23	7.0	33.43	8.0	24.9	1.81
C7	23 Aug 2022	12	14.18	87.72	6.9	33.43	8.0	24.9	1.88
C7	23 Aug 2022	13	13.98	87.68	6.7	33.42	8.0	25.0	1.82
C7	23 Aug 2022	14	13.47	87.51	6.4	33.44	8.0	25.1	1.67
C7	23 Aug 2022	15	13.54	87.93	6.2	33.44	7.9	25.1	1.43
C7	23 Aug 2022	16	13.30	88.92	6.0	33.45	7.9	25.1	1.21
C7	23 Aug 2022	17	13.23	89.56	5.7	33.45	7.9	25.1	0.80
C7	30 Aug 2022	1	18.57	79.73	8.0	33.52	8.2	24.0	1.90
C7	30 Aug 2022	2	18.16	80.76	7.9	33.51	8.2	24.1	1.92
C7	30 Aug 2022	3	17.10	82.67	7.9	33.48	8.2	24.3	1.84

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
C7	30 Aug 2022	4	16.21	85.16	8.2	33.46	8.1	24.5	1.60
C7	30 Aug 2022	5	16.11	86.82	8.3	33.45	8.1	24.5	1.53
C7	30 Aug 2022	6	16.12	86.74	8.2	33.45	8.1	24.5	1.53
C7	30 Aug 2022	7	16.05	86.42	8.2	33.45	8.1	24.5	1.66
C7	30 Aug 2022	8	15.96	85.81	8.1	33.45	8.1	24.6	1.87
C7	30 Aug 2022	9	15.81	85.19	7.9	33.46	8.1	24.6	2.18
C7	30 Aug 2022	10	15.85	84.03	7.9	33.46	8.1	24.6	2.57
C7	30 Aug 2022	11	15.69	83.61	7.7	33.45	8.1	24.6	2.79
C7	30 Aug 2022	12	15.49	82.76	7.6	33.46	8.1	24.7	3.25
C7	30 Aug 2022	13	15.36	81.73	7.2	33.45	8.1	24.7	3.54
C7	30 Aug 2022	14	14.69	81.58	6.7	33.44	8.0	24.8	3.65
C7	30 Aug 2022	15	14.38	84.68	6.5	33.46	8.0	24.9	2.93
C7	30 Aug 2022	16	14.17	86.49	6.2	33.45	8.0	25.0	2.73
C7	30 Aug 2022	17	13.43	87.20	5.9	33.45	7.9	25.1	2.08
C7	30 Aug 2022	18	13.40	88.89	5.9	33.46	7.9	25.1	1.63
C8	02 Aug 2022	1	21.75	79.78	8.2	33.61	8.2	23.2	1.28
C8	02 Aug 2022	2	21.46	79.64	8.0	33.60	8.2	23.3	1.30
C8	02 Aug 2022	3	19.87	79.61	8.1	33.55	8.2	23.7	1.43
C8	02 Aug 2022	4	18.51	79.46	8.4	33.53	8.2	24.0	1.55
C8	02 Aug 2022	5	17.92	79.61	8.0	33.49	8.2	24.1	1.63
C8	02 Aug 2022	6	15.73	80.45	7.8	33.46	8.1	24.6	1.63
C8	02 Aug 2022	7	15.08	82.20	7.4	33.44	8.1	24.8	1.78
C8	02 Aug 2022	8	13.58	81.24	6.8	33.44	8.0	25.1	2.48
C8	02 Aug 2022	9	13.43	81.00	6.4	33.44	8.0	25.1	3.15
C8	02 Aug 2022	10	13.15	84.36	6.1	33.45	8.0	25.2	2.77
C8	02 Aug 2022	11	13.11	86.17	5.9	33.46	7.9	25.2	2.11
C8	02 Aug 2022	12	13.04	87.34	5.8	33.47	7.9	25.2	1.68
C8	02 Aug 2022	13	12.94	87.89	5.7	33.48	7.9	25.2	1.38
C8	02 Aug 2022	14	12.82	88.45	5.6	33.48	7.9	25.2	1.27
C8	02 Aug 2022	15	12.81	88.73	5.5	33.48	7.9	25.3	1.13
C8	02 Aug 2022	16	12.68	88.67	5.4	33.49	7.9	25.3	0.94
C8	02 Aug 2022	17	12.54	88.19	5.3	33.49	7.9	25.3	0.76
C8	02 Aug 2022	18	12.47	87.35	5.3	33.49	7.9	25.3	0.67
C8	02 Aug 2022	19	12.47	86.02	5.4	33.49	7.9	25.3	0.66
C8	08 Aug 2022	1	17.31	61.36	8.3	33.48	8.1	24.3	2.31
C8	08 Aug 2022	2	17.37	71.22	8.1	33.48	8.1	24.3	2.32
C8	08 Aug 2022	3	16.88	70.00	8.1	33.46	8.1	24.4	3.55
C8	08 Aug 2022	4	16.42	70.66	8.1	33.47	8.1	24.5	5.57
C8	08 Aug 2022	5	16.31	69.19	8.1	33.47	8.1	24.5	6.73
C8	08 Aug 2022	6	16.19	69.50	8.1	33.46	8.1	24.5	6.88
C8	08 Aug 2022	7	15.88	70.27	7.8	33.45	8.1	24.6	6.39
C8	08 Aug 2022	8	15.35	74.00	7.6	33.45	8.1	24.7	4.93
C8	08 Aug 2022	9	14.74	79.96	7.3	33.45	8.0	24.8	3.68
C8	08 Aug 2022	10	14.34	82.00	7.0	33.45	8.0	24.9	2.99
C8	08 Aug 2022	11	14.13	82.51	6.7	33.43	8.0	24.9	2.74
C8	08 Aug 2022	12	13.76	82.94	6.4	33.44	8.0	25.0	2.60
C8	08 Aug 2022	13	13.60	83.20	6.2	33.45	7.9	25.1	3.11
C8	08 Aug 2022	14	13.53	83.00	5.9	33.45	7.9	25.1	3.17
C8	08 Aug 2022	15	13.23	83.50	5.6	33.45	7.9	25.1	2.97
C8	08 Aug 2022	16	12.90	84.70	5.3	33.46	7.9	25.2	2.38
C8	08 Aug 2022	17	12.76	87.12	5.1	33.47	7.8	25.3	1.46
C8	08 Aug 2022	18	12.70	88.49	5.0	33.47	7.8	25.3	1.01
C8	08 Aug 2022	19	12.69	88.43	5.0	33.47	7.8	25.3	0.68
C8	15 Aug 2022	1	22.47	79.62	7.7	33.59	8.2	23.0	1.16
C8	15 Aug 2022	2	22.47	84.20	7.7	33.59	8.2	23.0	1.15
C8	15 Aug 2022	3	22.35	85.79	7.7	33.58	8.2	23.0	1.17
C8	15 Aug 2022	4	22.08	85.74	7.6	33.58	8.2	23.1	1.22
C8	15 Aug 2022	5	21.51	85.01	7.2	33.53	8.2	23.2	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
C8	15 Aug 2022	6	19.41	83.66	7.6	33.48	8.1	23.8	1.70
C8	15 Aug 2022	7	18.83	83.29	7.7	33.50	8.1	23.9	1.87
C8	15 Aug 2022	8	17.14	85.50	7.8	33.42	8.1	24.3	1.82
C8	15 Aug 2022	9	15.34	87.28	8.4	33.42	8.1	24.7	1.55
C8	15 Aug 2022	10	15.26	87.17	8.6	33.42	8.1	24.7	1.53
C8	15 Aug 2022	11	15.43	87.12	8.5	33.41	8.1	24.6	1.57
C8	15 Aug 2022	12	14.91	87.44	8.5	33.40	8.1	24.8	1.52
C8	15 Aug 2022	13	14.65	87.80	8.4	33.42	8.1	24.8	1.68
C8	15 Aug 2022	14	14.51	87.22	8.0	33.42	8.1	24.9	1.90
C8	15 Aug 2022	15	14.07	85.91	7.4	33.44	8.1	25.0	2.01
C8	15 Aug 2022	16	13.75	85.24	6.9	33.46	8.0	25.0	2.12
C8	15 Aug 2022	17	13.39	85.21	6.6	33.46	8.0	25.1	2.01
C8	15 Aug 2022	18	13.25	85.53	6.5	33.47	8.0	25.2	1.77
C8	15 Aug 2022	19	13.25	85.00	6.4	33.47	8.0	25.2	1.59
C8	23 Aug 2022	1	22.11	78.96	7.4	33.63	8.1	23.1	2.79
C8	23 Aug 2022	2	22.13	78.89	7.3	33.64	8.1	23.1	3.03
C8	23 Aug 2022	3	21.93	78.29	7.4	33.62	8.1	23.2	3.30
C8	23 Aug 2022	4	21.65	79.18	7.6	33.60	8.2	23.3	2.82
C8	23 Aug 2022	5	21.30	81.72	7.4	33.55	8.2	23.3	2.42
C8	23 Aug 2022	6	19.07	84.01	7.6	33.47	8.2	23.8	1.93
C8	23 Aug 2022	7	17.21	84.91	7.8	33.50	8.1	24.3	1.88
C8	23 Aug 2022	8	16.23	84.38	7.8	33.47	8.1	24.5	2.08
C8	23 Aug 2022	9	15.37	84.02	7.7	33.45	8.1	24.7	2.57
C8	23 Aug 2022	10	15.00	83.25	7.6	33.44	8.1	24.8	3.47
C8	23 Aug 2022	11	14.74	82.25	7.5	33.42	8.0	24.8	4.28
C8	23 Aug 2022	12	14.39	81.36	7.4	33.43	8.0	24.9	3.93
C8	23 Aug 2022	13	14.20	82.45	7.2	33.43	8.0	24.9	3.41
C8	23 Aug 2022	14	13.98	84.28	6.8	33.43	8.0	25.0	2.71
C8	23 Aug 2022	15	13.33	86.47	6.3	33.44	8.0	25.1	1.78
C8	23 Aug 2022	16	13.15	88.18	6.0	33.45	7.9	25.2	1.39
C8	23 Aug 2022	17	13.14	88.71	5.9	33.45	7.9	25.2	1.01
C8	23 Aug 2022	18	13.14	88.65	5.8	33.45	7.9	25.2	1.22
C8	23 Aug 2022	19	13.14	88.59	5.8	33.46	7.9	25.2	1.23
C8	30 Aug 2022	1	20.39	82.25	7.5	33.59	8.2	23.6	1.50
C8	30 Aug 2022	2	20.02	82.41	7.2	33.55	8.2	23.7	1.65
C8	30 Aug 2022	3	17.87	82.37	7.7	33.51	8.2	24.2	1.90
C8	30 Aug 2022	4	16.89	83.90	7.9	33.47	8.1	24.4	1.92
C8	30 Aug 2022	5	16.44	84.74	8.0	33.46	8.1	24.5	2.08
C8	30 Aug 2022	6	16.43	84.64	8.0	33.45	8.1	24.5	2.28
C8	30 Aug 2022	7	15.99	84.48	7.9	33.45	8.1	24.6	2.43
C8	30 Aug 2022	8	15.76	83.69	7.9	33.44	8.1	24.6	2.63
C8	30 Aug 2022	9	15.57	82.81	7.9	33.44	8.1	24.6	3.04
C8	30 Aug 2022	10	15.33	81.93	7.6	33.44	8.1	24.7	3.18
C8	30 Aug 2022	11	14.88	81.13	7.4	33.45	8.1	24.8	4.02
C8	30 Aug 2022	12	14.77	80.06	7.2	33.44	8.1	24.8	4.79
C8	30 Aug 2022	13	14.37	80.65	7.0	33.44	8.0	24.9	4.81
C8	30 Aug 2022	14	14.16	81.40	6.8	33.43	8.0	24.9	4.48
C8	30 Aug 2022	15	14.02	82.48	6.8	33.44	8.0	25.0	4.15
C8	30 Aug 2022	16	14.21	82.37	6.6	33.44	8.0	24.9	4.02
C8	30 Aug 2022	17	13.83	83.60	6.3	33.44	8.0	25.0	3.74
C8	30 Aug 2022	18	13.48	85.18	5.9	33.45	7.9	25.1	2.88
C8	30 Aug 2022	19	13.36	87.39	5.7	33.46	7.9	25.1	1.80

NA = not available

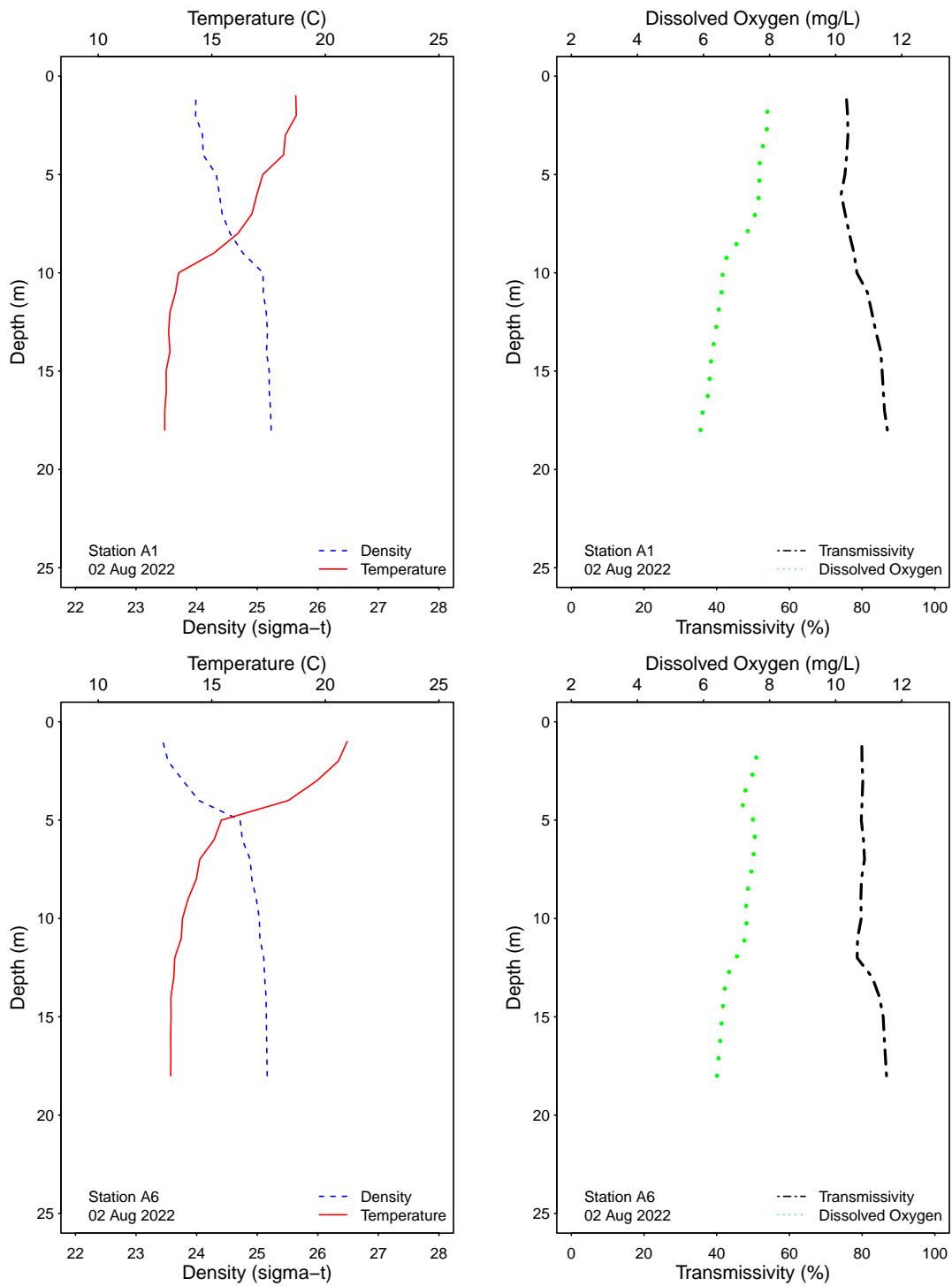


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

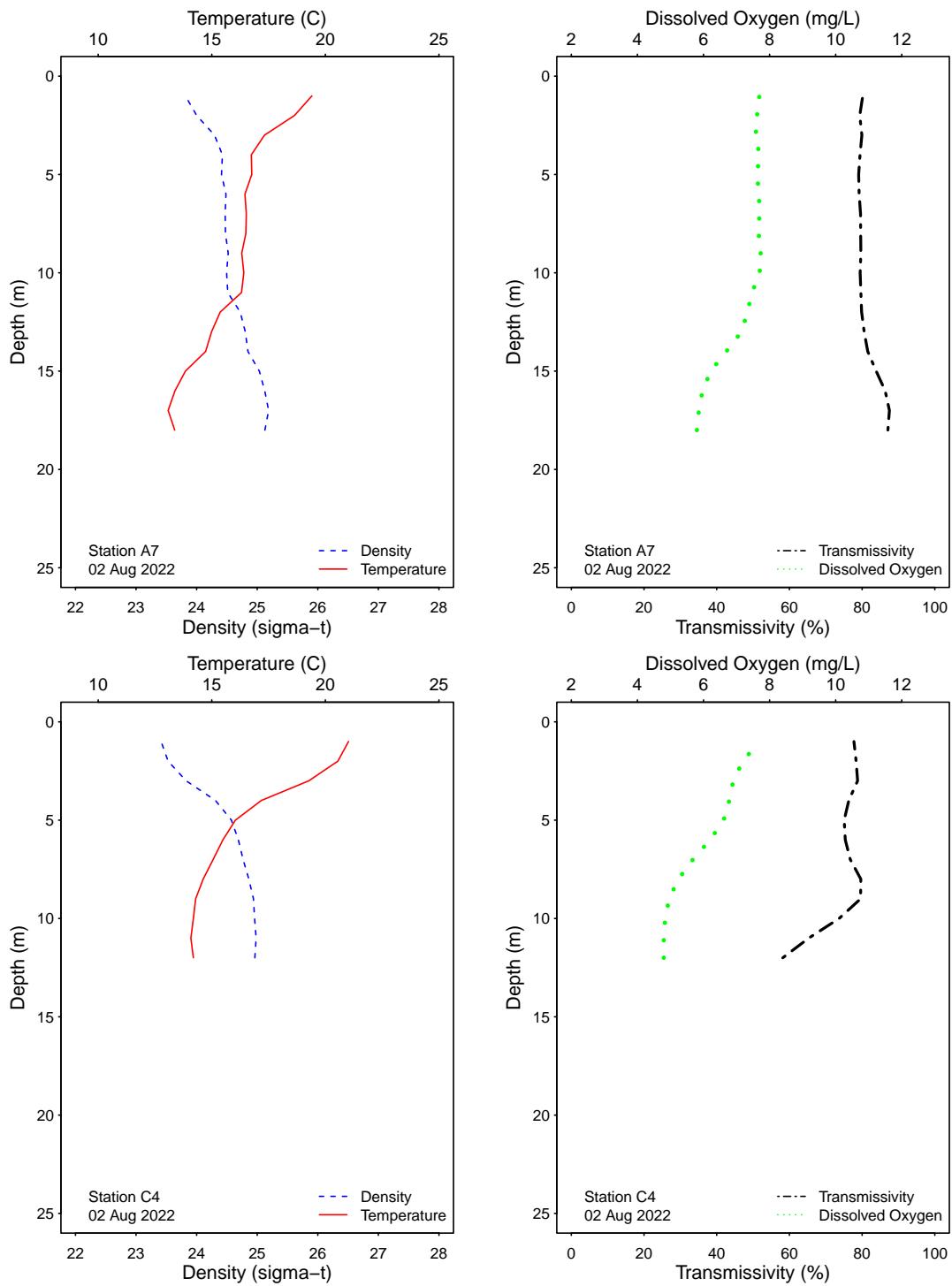


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

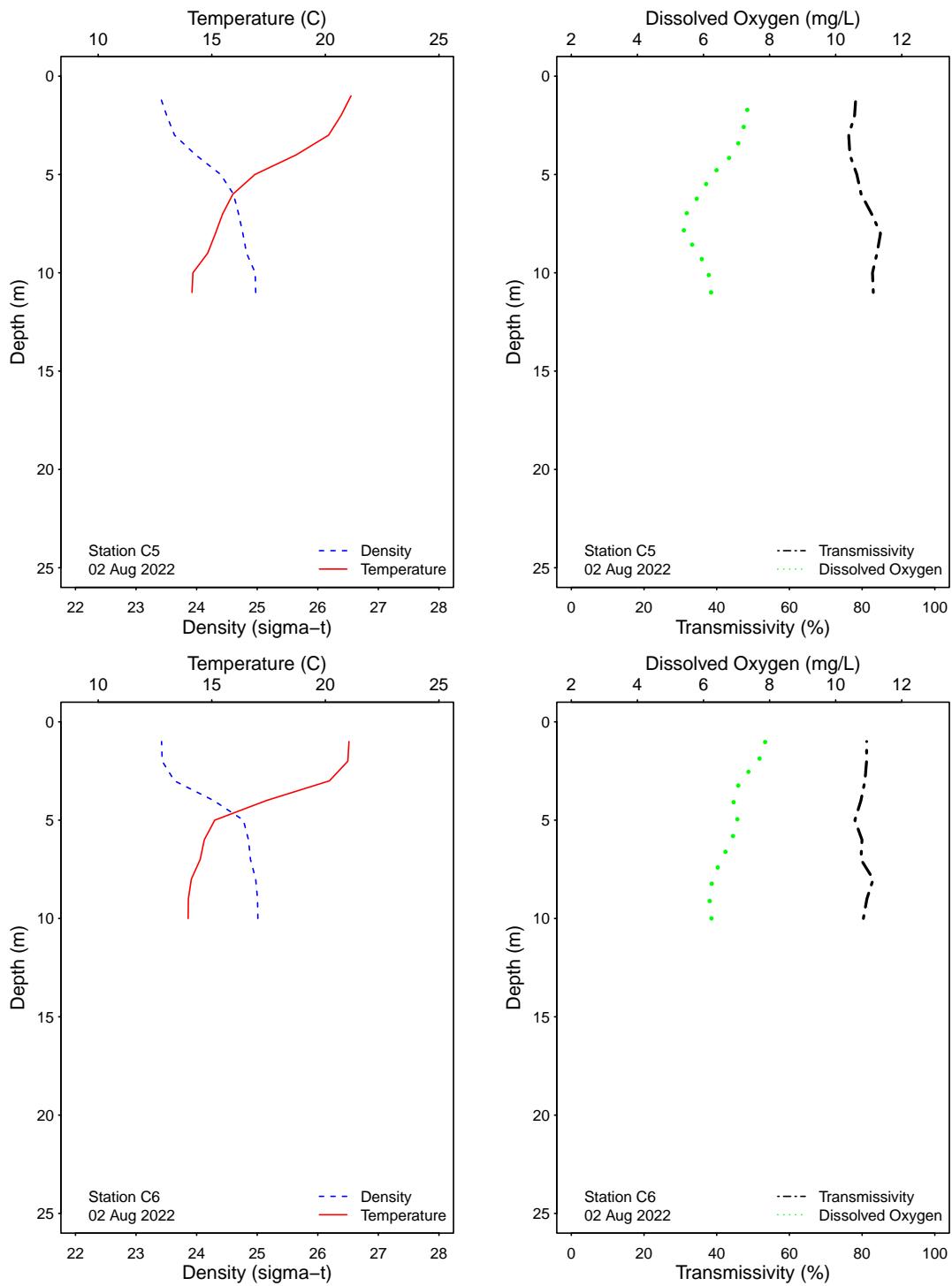


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

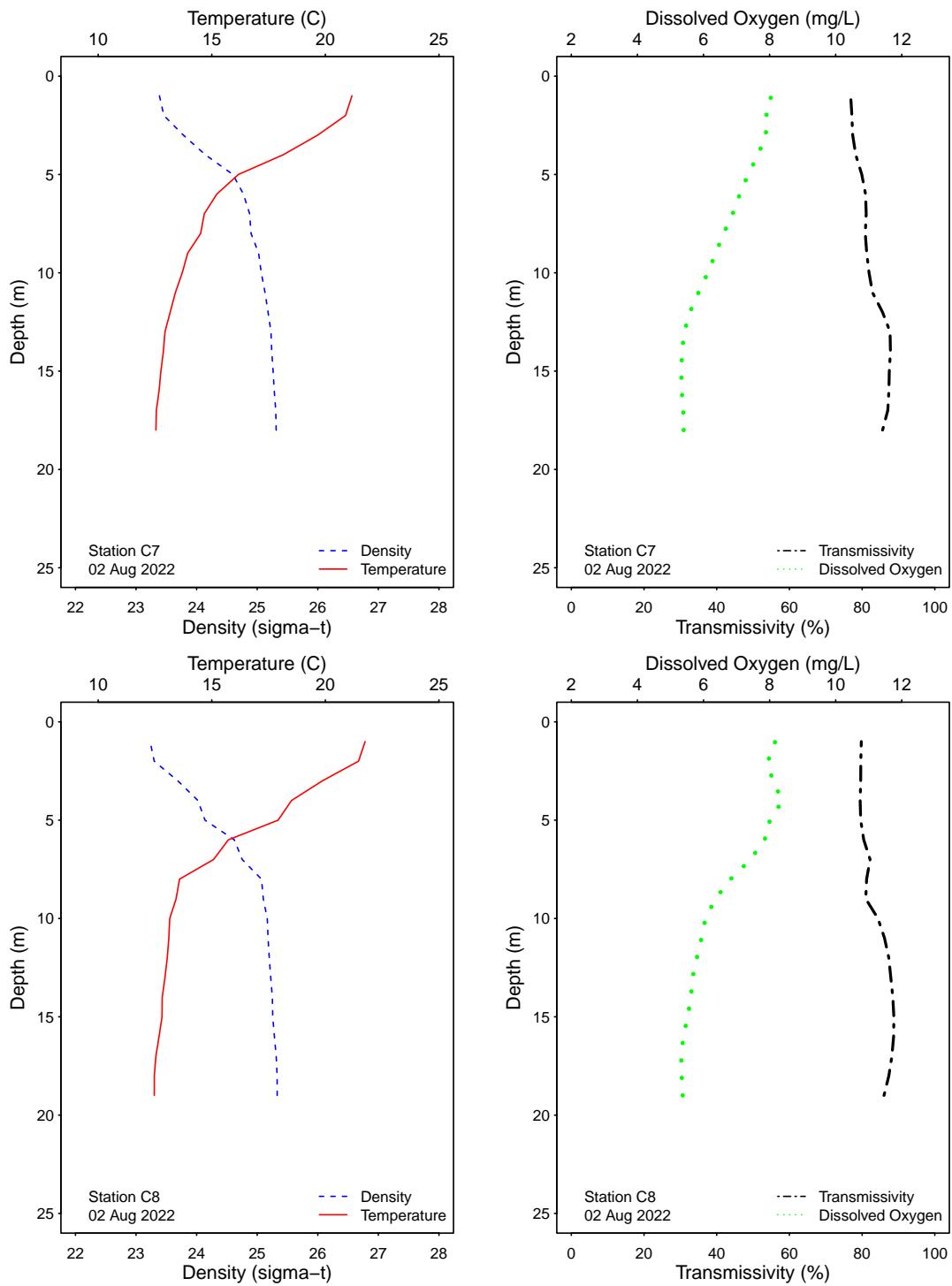


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

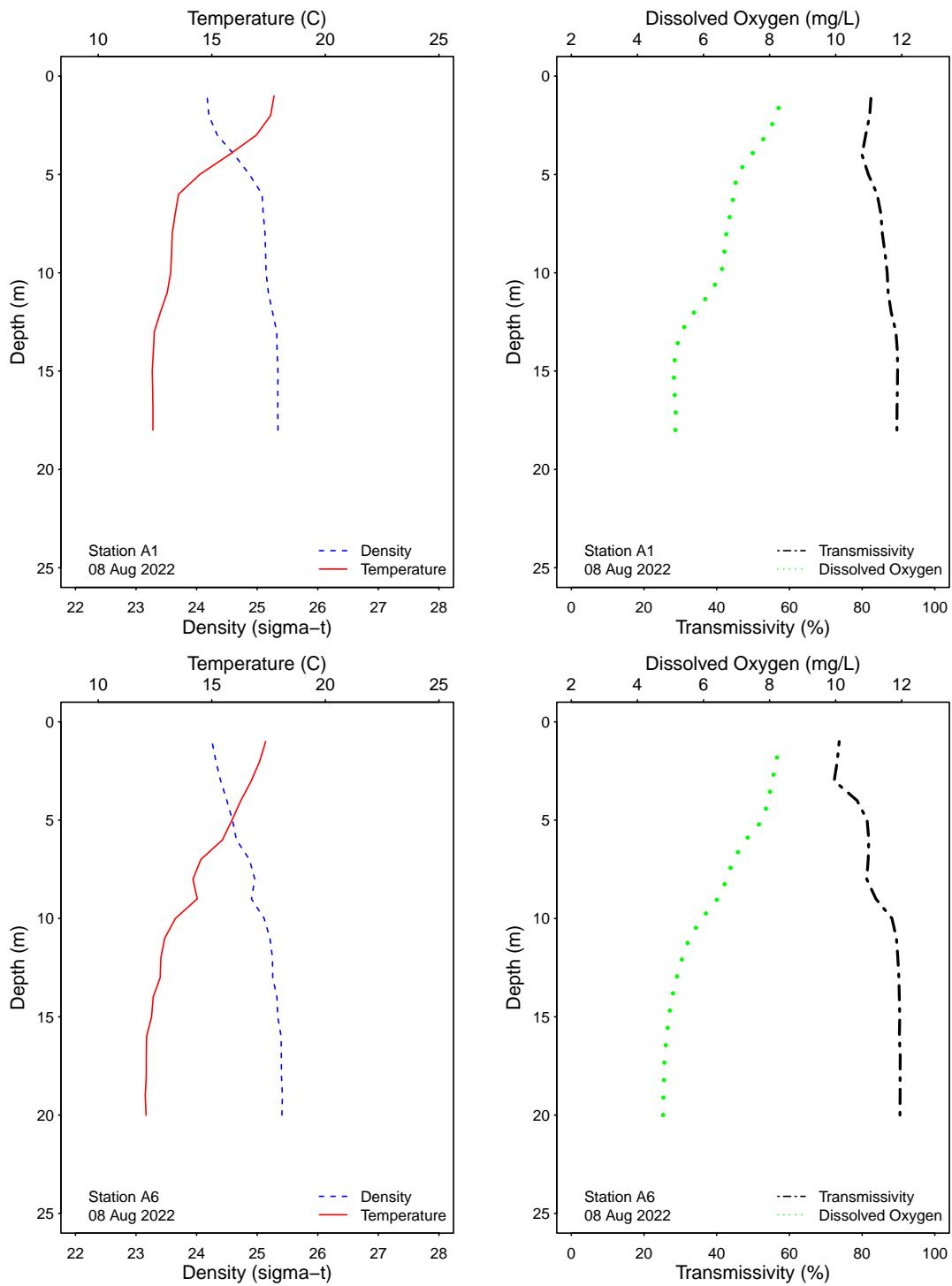


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

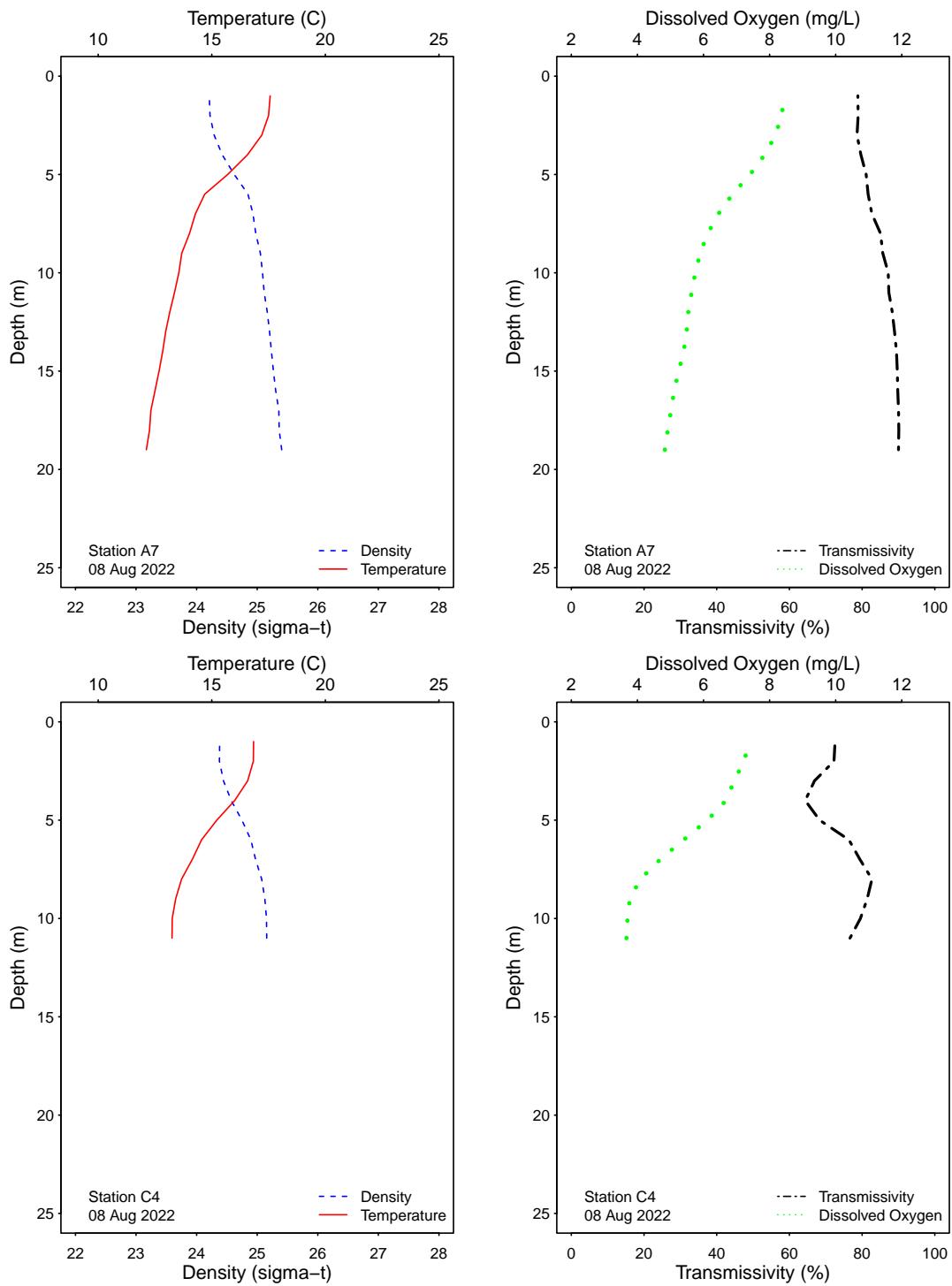


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

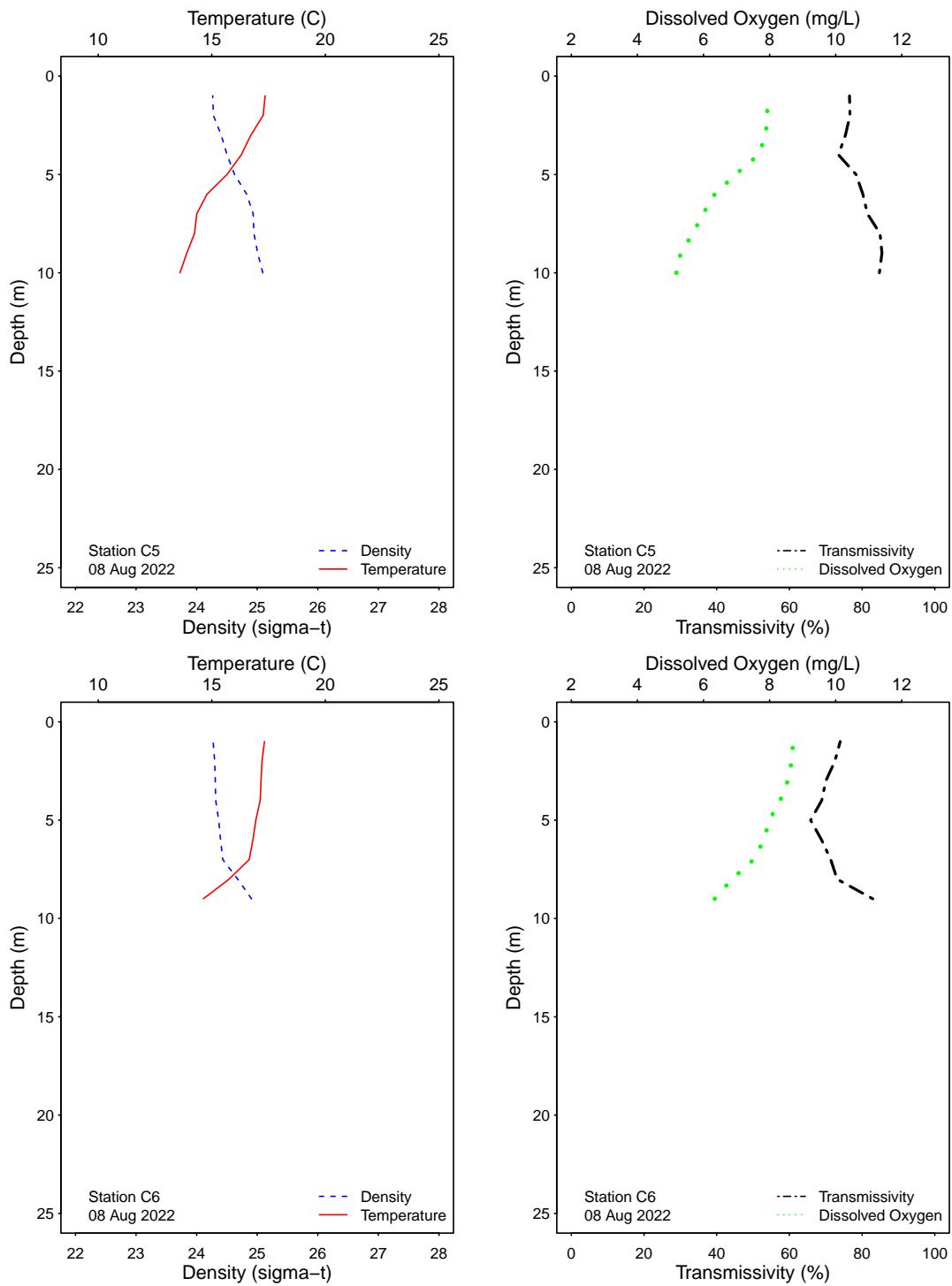


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

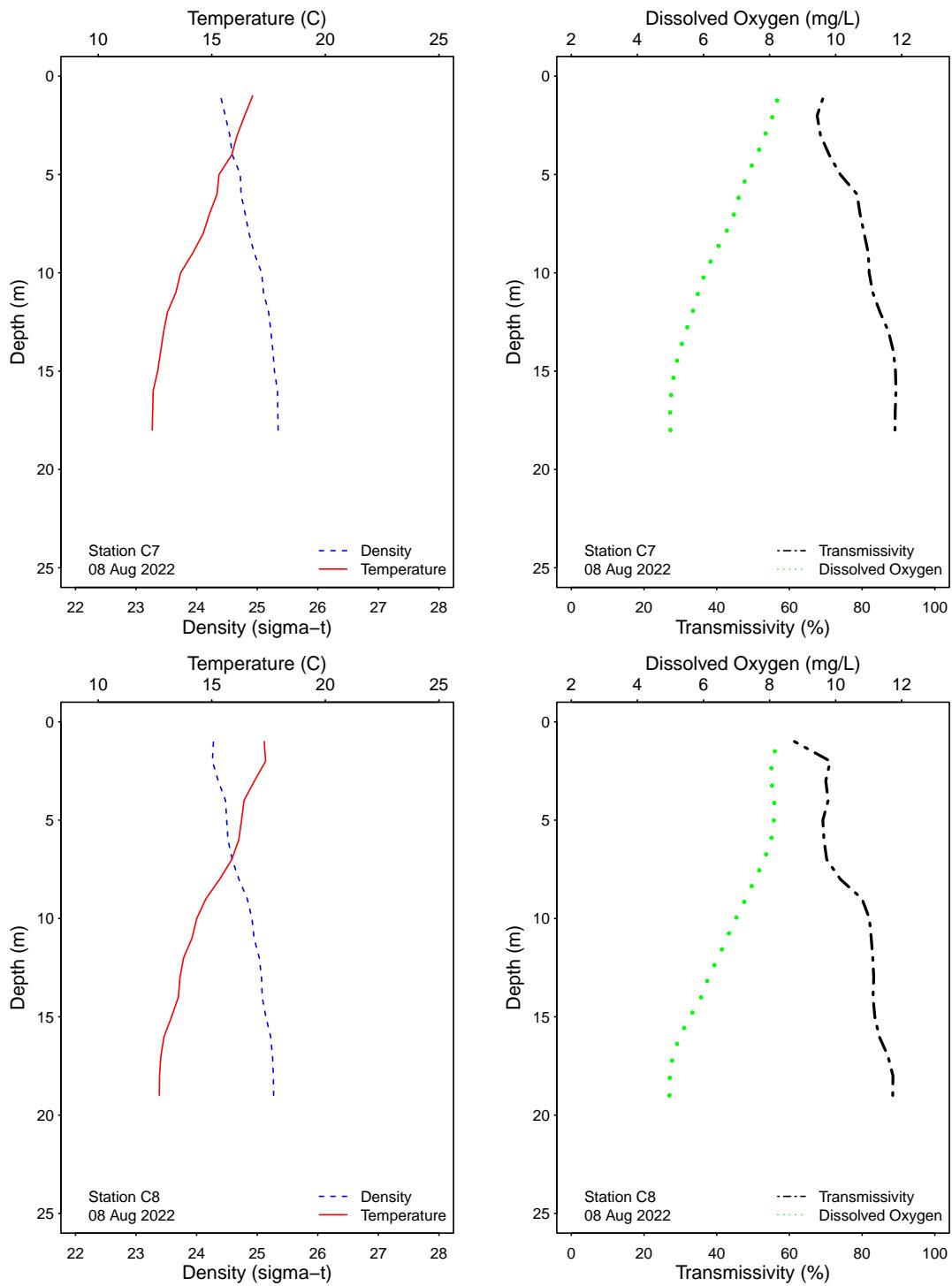


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

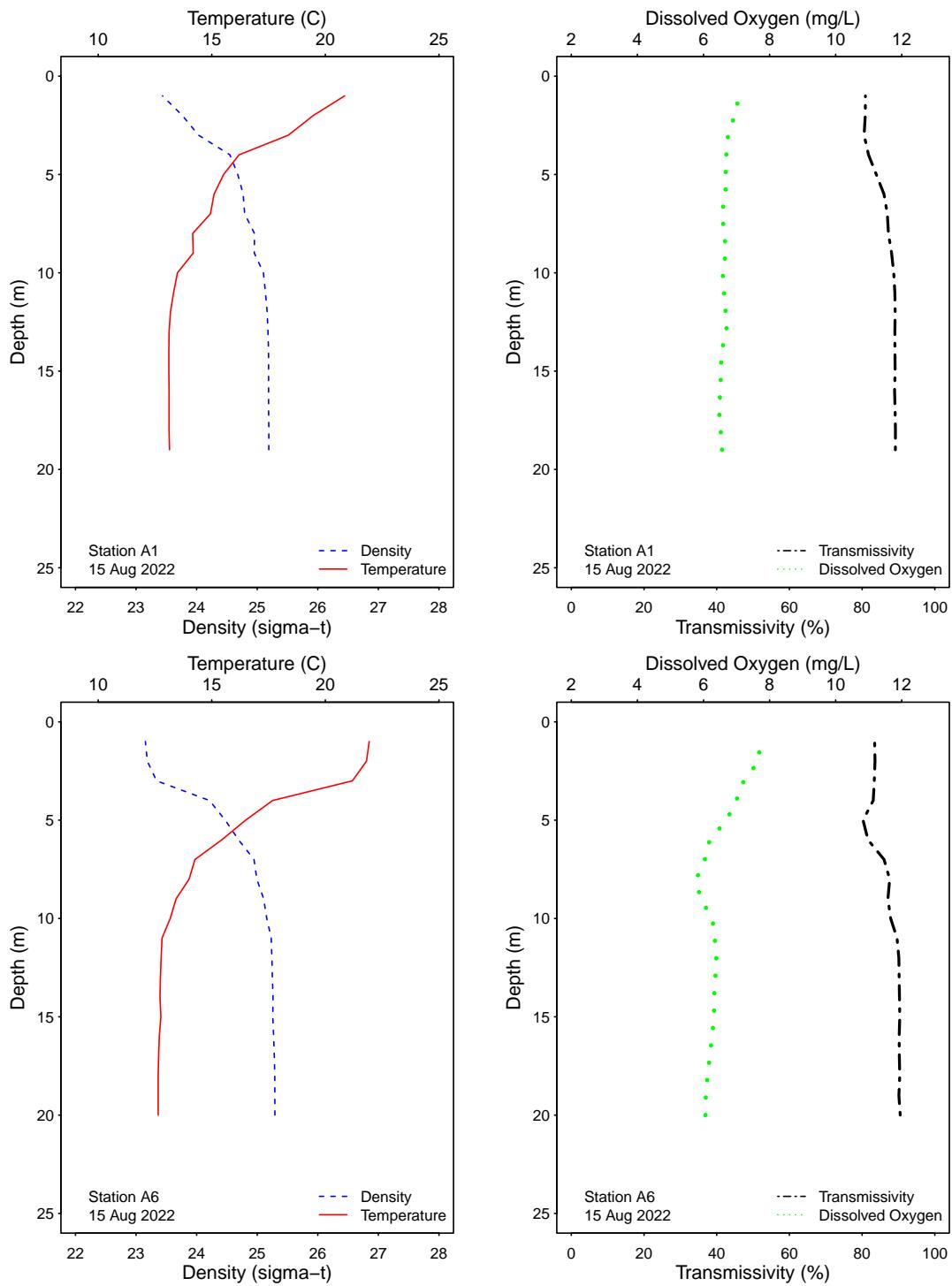


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

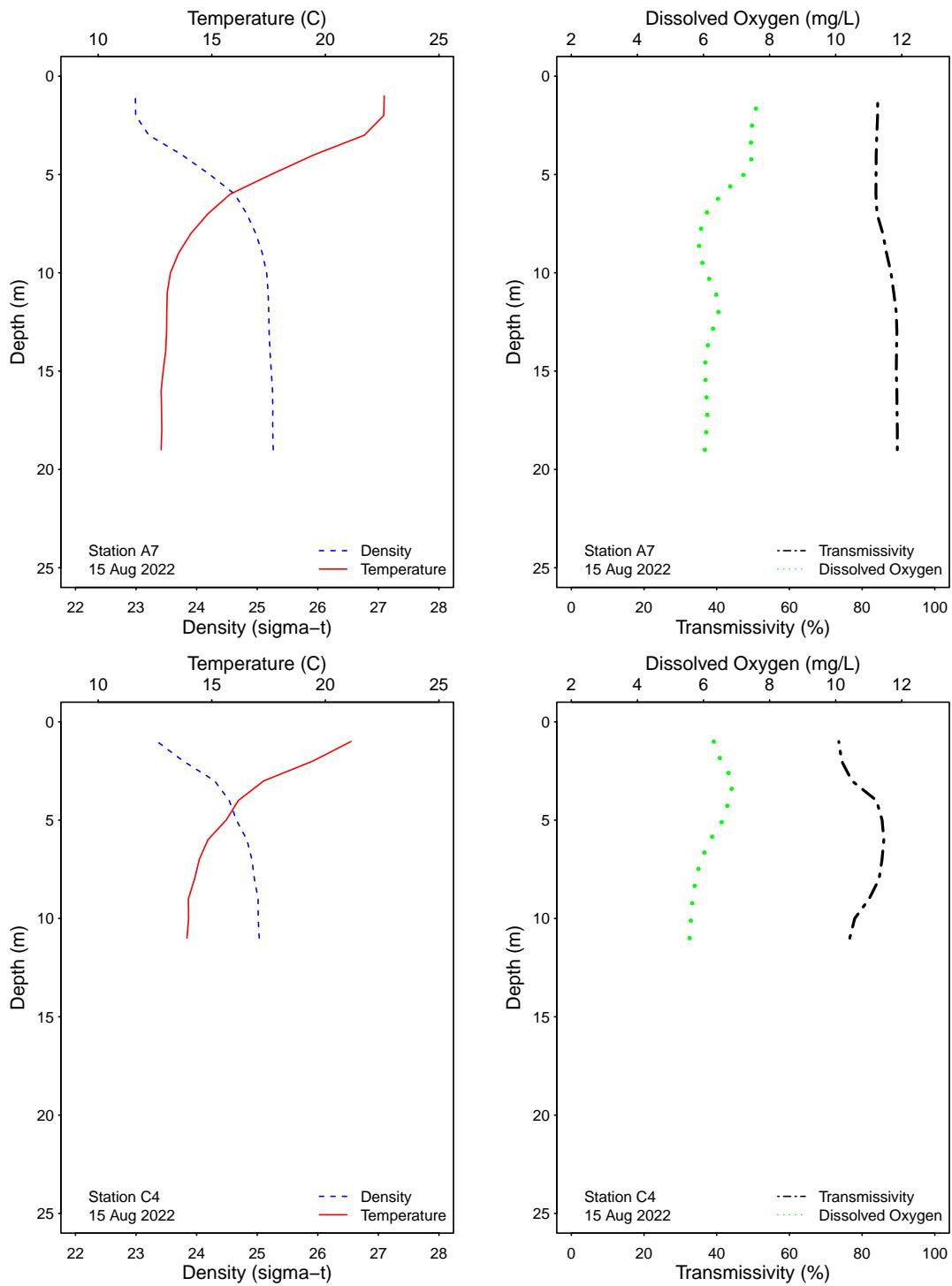


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

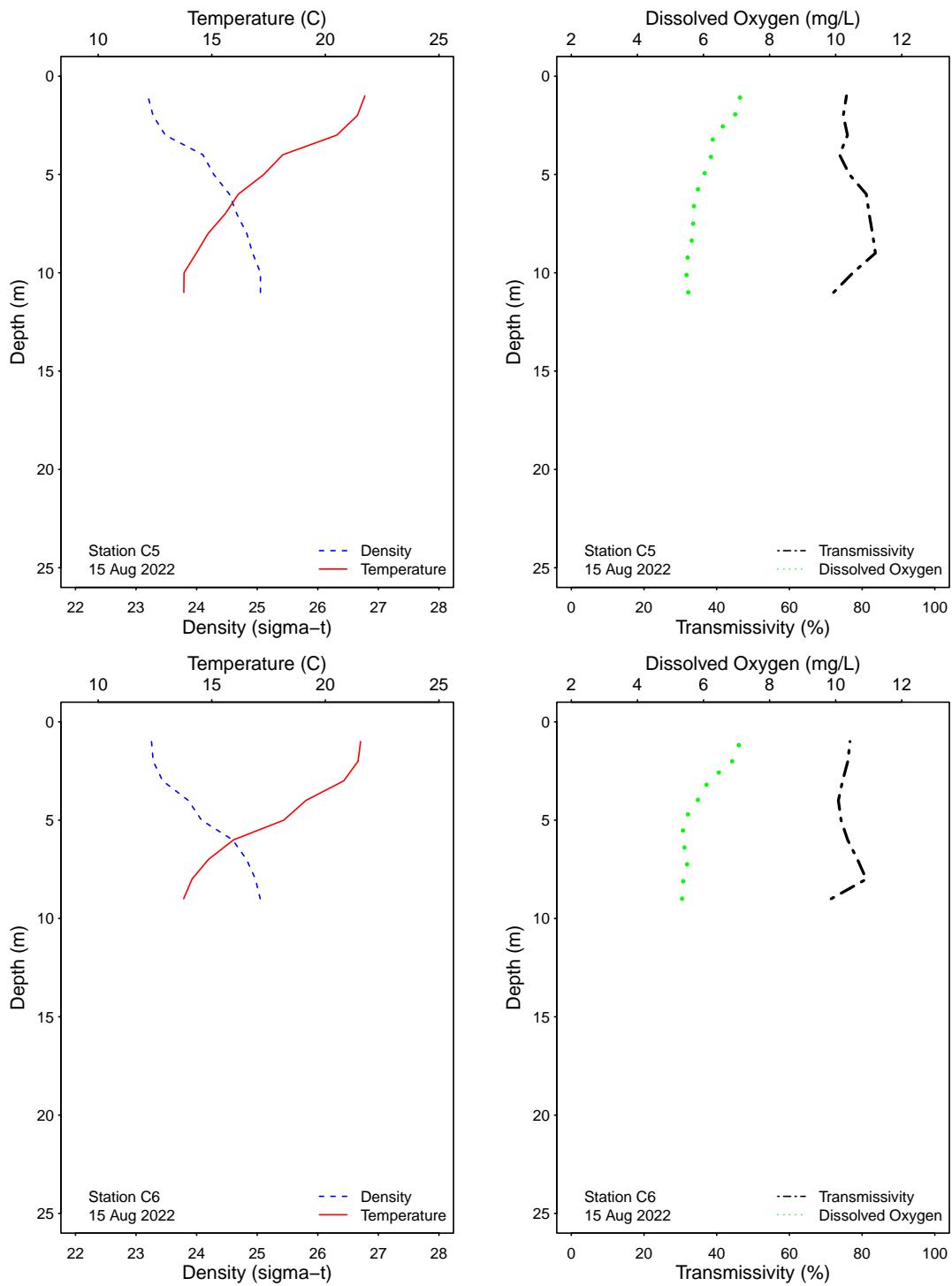


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

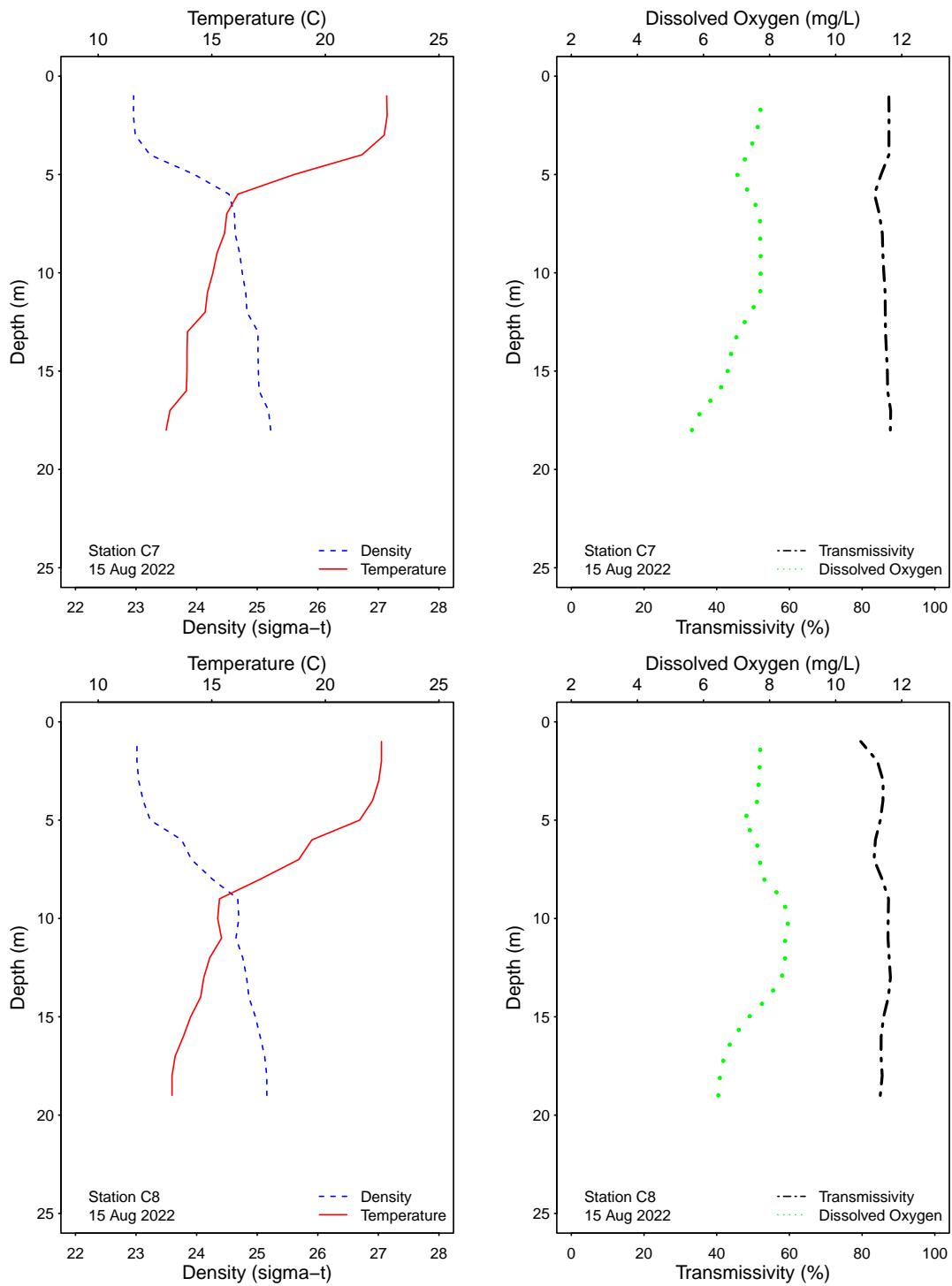


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

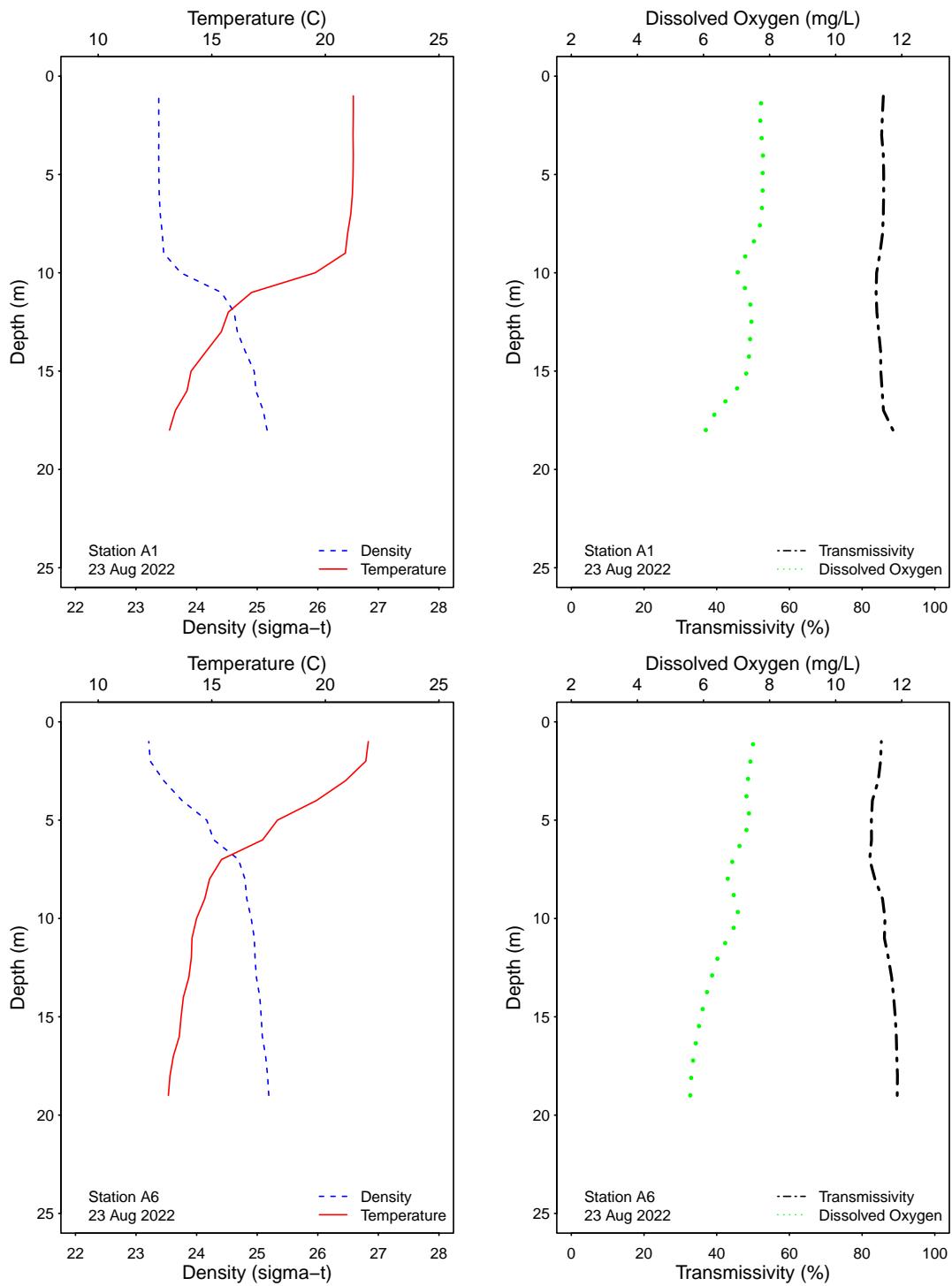


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

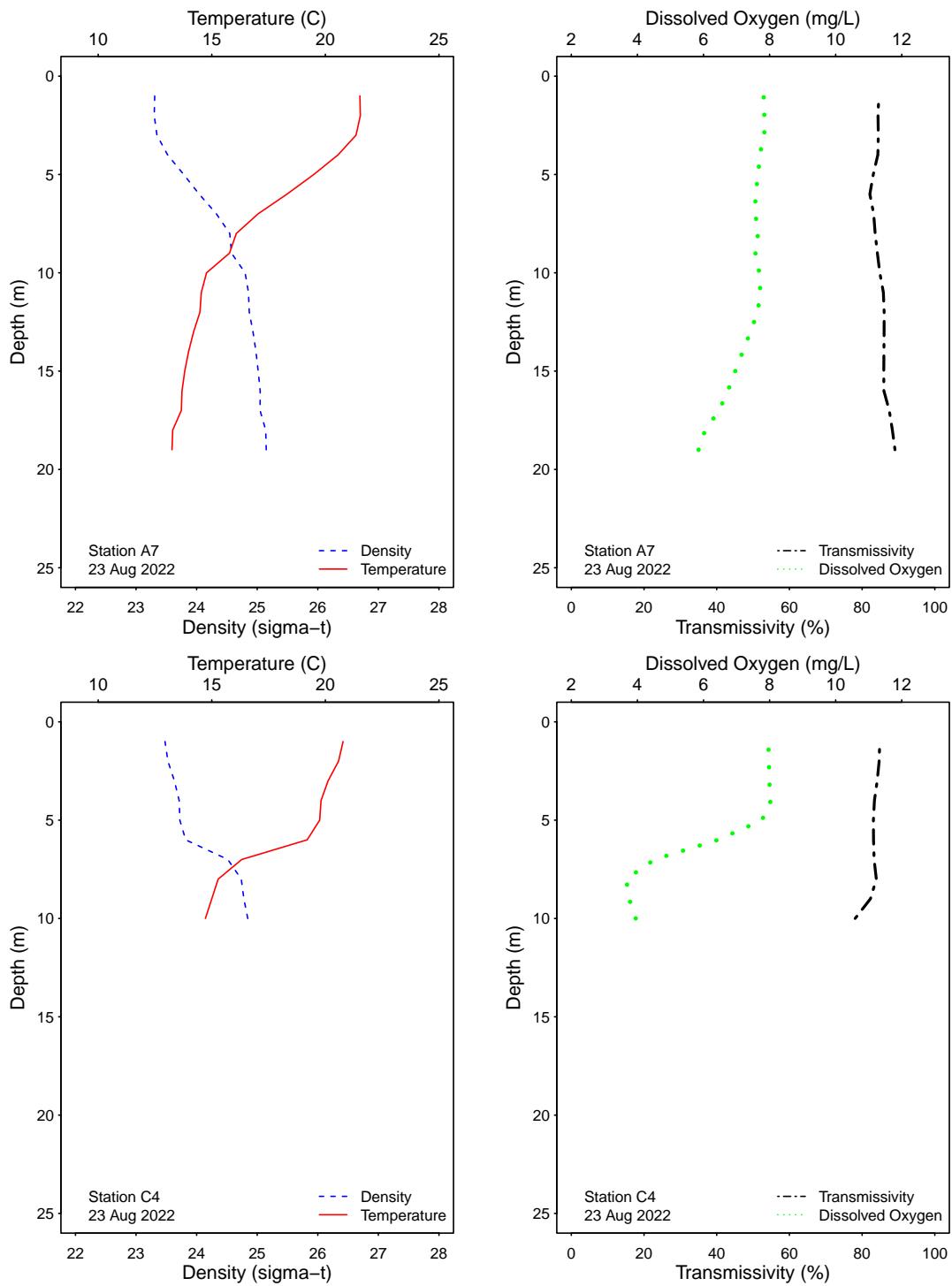


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

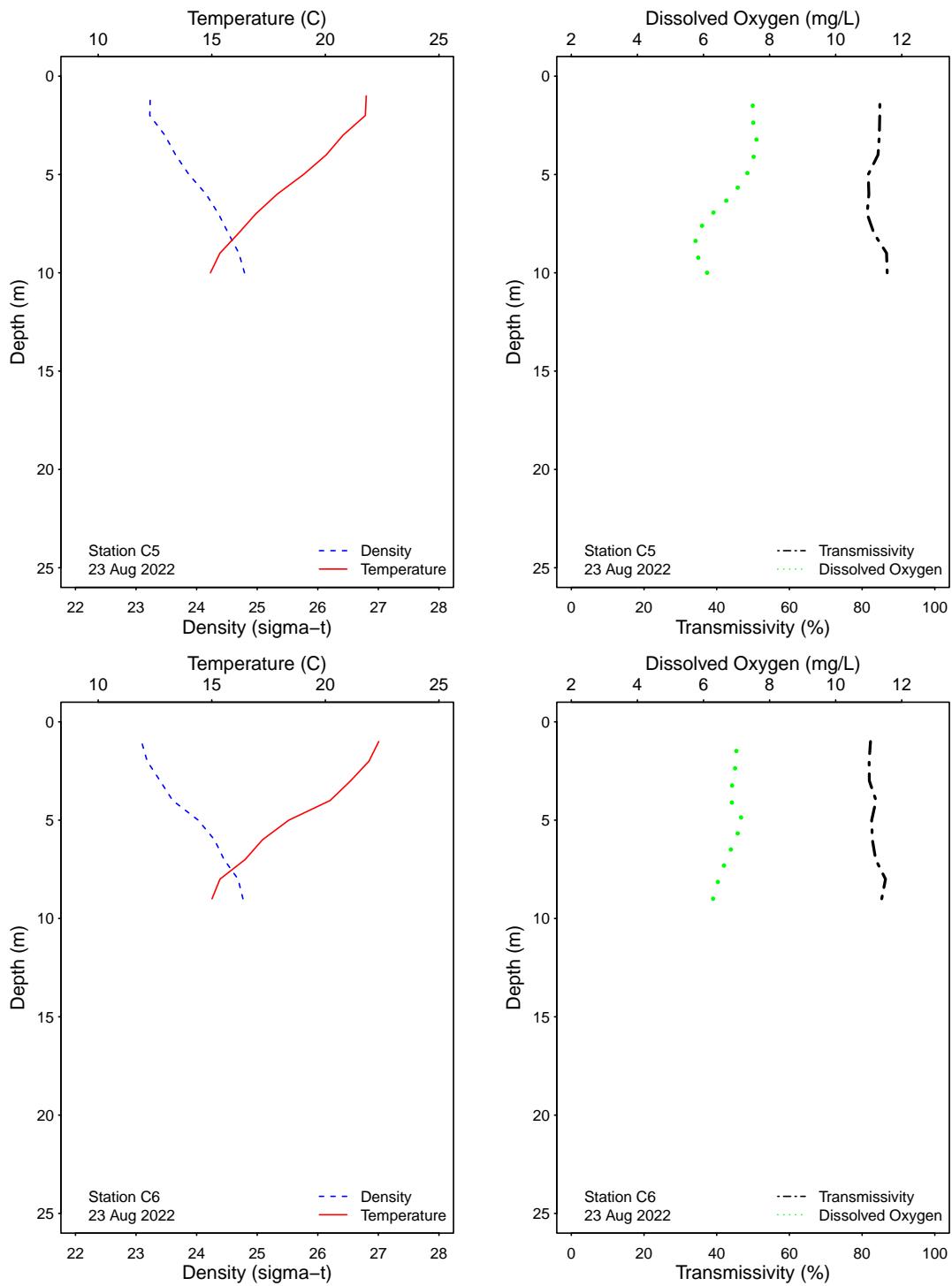


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

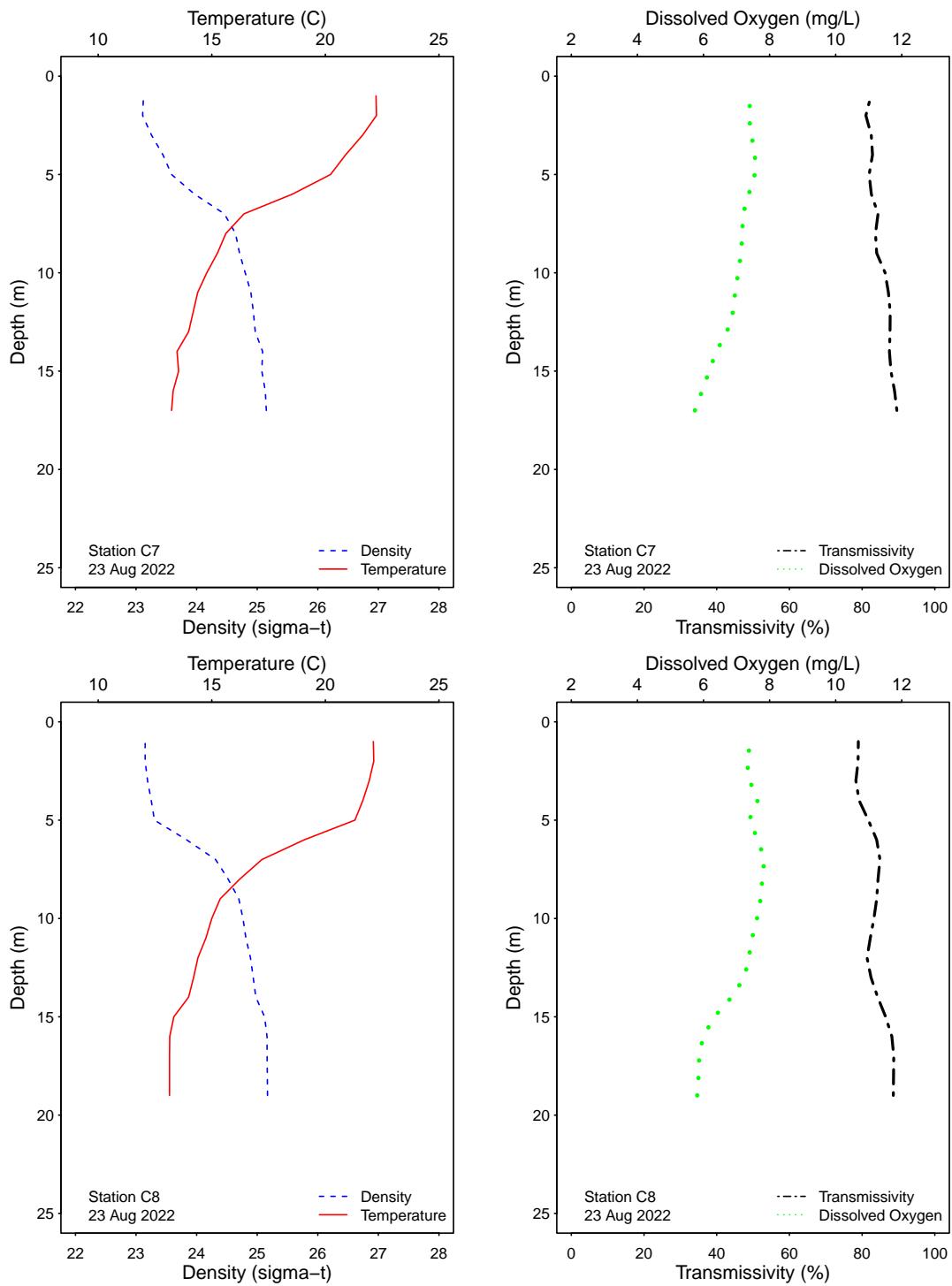


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

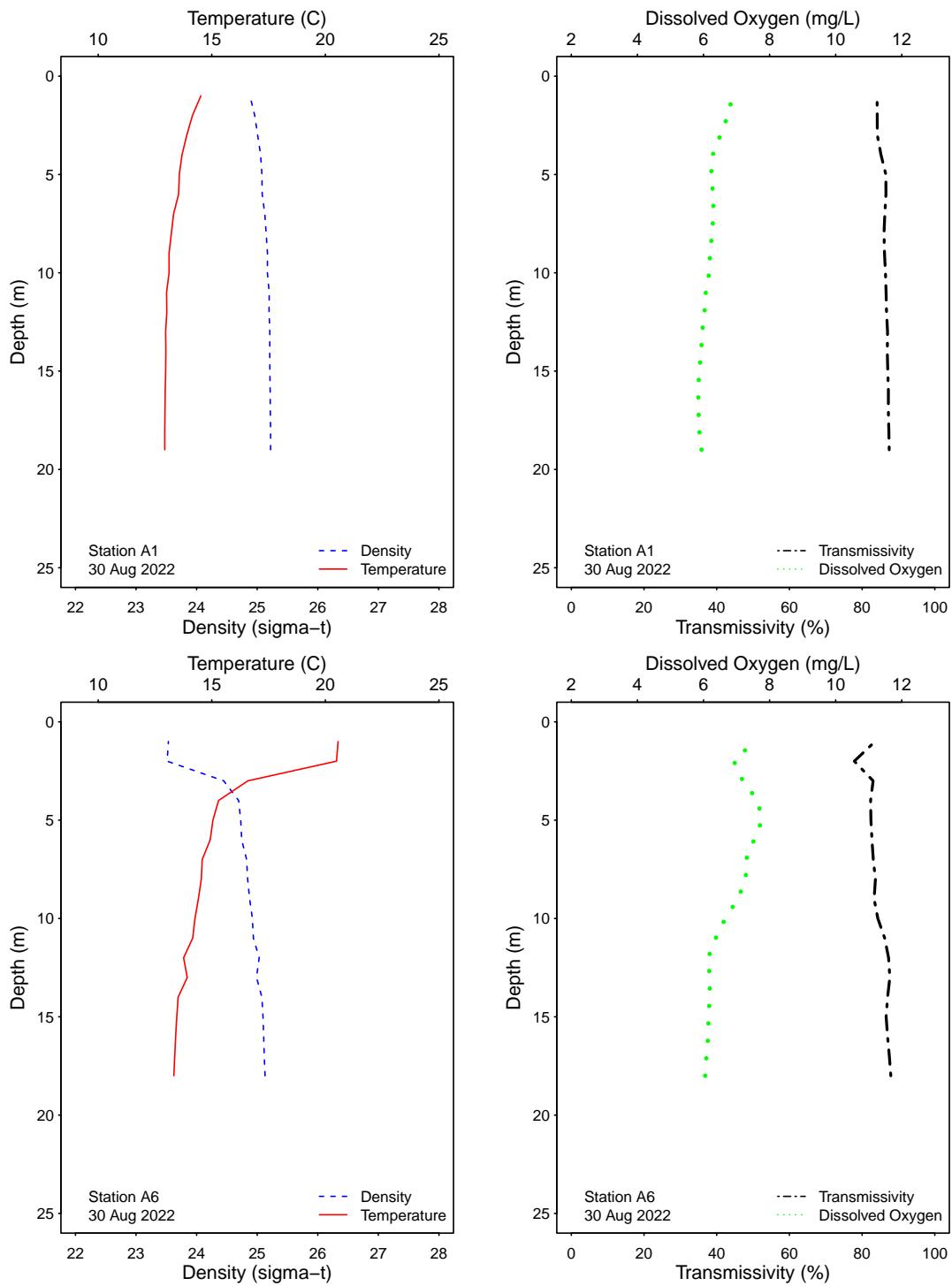


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

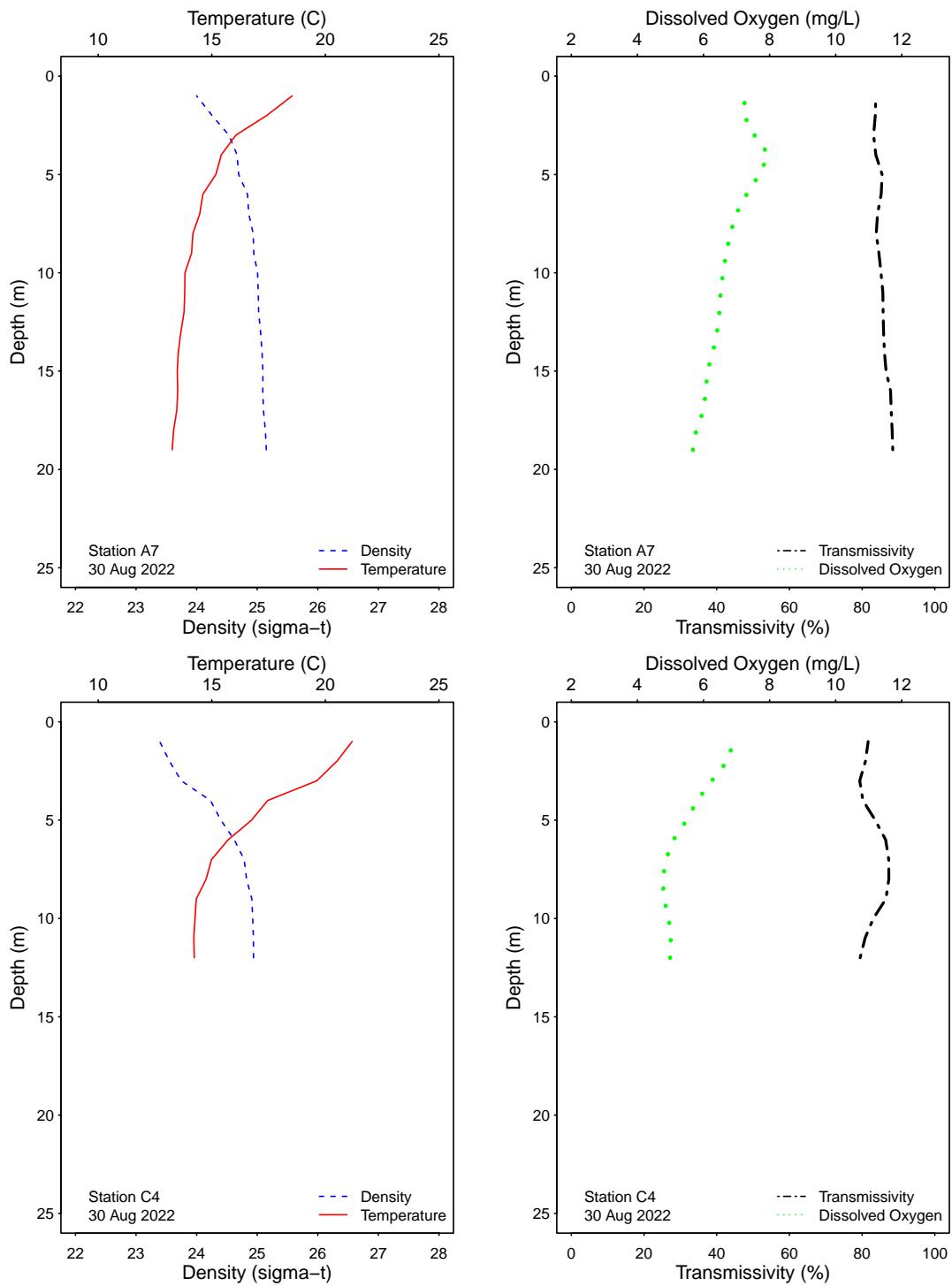


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

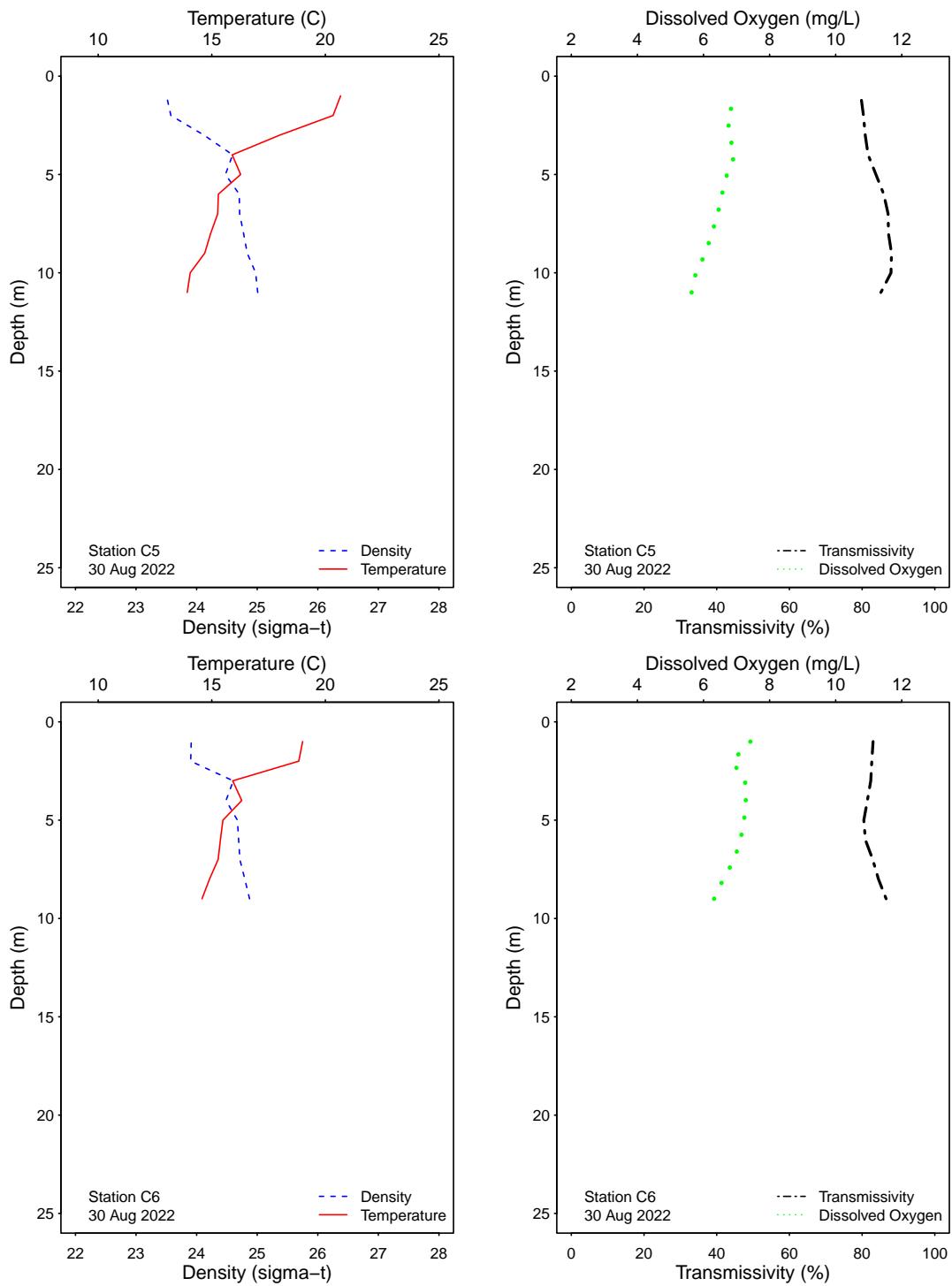


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

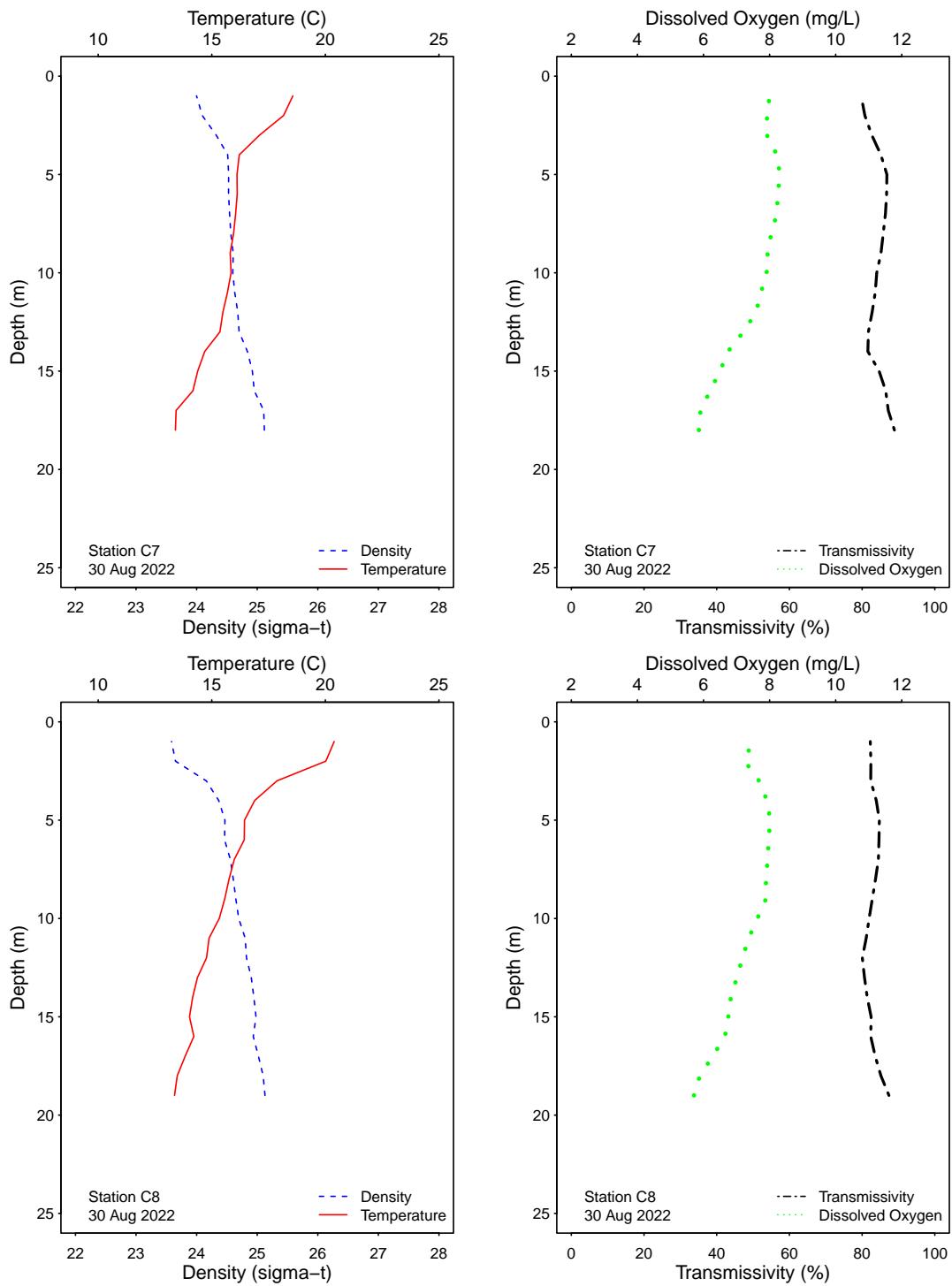


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.



# Offshore Stations



**Table 4.1**

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria at the PLOO offshore stations within three nautical miles of shore. Values shall not exceed 104 CFU/100 mL.

Date	F01	F02	F03	F06	F07	F08	F09	F10	F11	F12	F13	F14	F18	F19	F20
17 Aug 2022	IC	ns	ns	ns											
18 Aug 2022	ns	IC	IC	IC											

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 4.2**

Summary of water quality parameters at the PLOO offshore stations for each sample date. Density of *Enterococcus* (Enter) is reported as CFU/100 mL; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt), and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F01	17 Aug 2022	1246	1	<2	19.3	74.51	8.0	33.52	8.0
F01	17 Aug 2022	1246	12	<2	14.0	85.50	6.8	33.46	7.8
F01	17 Aug 2022	1246	18	<2	13.1	87.31	6.0	33.48	7.8
F02	17 Aug 2022	908	1	<2	21.5	82.10	7.3	33.56	8.0
F02	17 Aug 2022	908	12	<2	13.8	84.79	8.0	33.44	7.9
F02	17 Aug 2022	908	18	<2	12.5	87.07	6.0	33.49	7.8
F03	17 Aug 2022	922	1	<2	22.3	83.04	7.6	33.58	8.0
F03	17 Aug 2022	922	12	<2	14.1	84.06	7.9	33.45	7.9
F03	17 Aug 2022	922	18	<2	12.8	84.68	6.4	33.48	7.8
F04	17 Aug 2022	1220	1	<2	23.0	85.56	7.9	33.57	8.1
F04	17 Aug 2022	1220	25	<2	13.7	85.47	7.8	33.44	8.0
F04	17 Aug 2022	1220	60	<2	11.2	90.60	4.7	33.61	7.7
F05	17 Aug 2022	1157	1	<2	22.5	84.76	7.9	33.56	8.1
F05	17 Aug 2022	1157	25	<2	12.1	90.47	5.9	33.51	7.8
F05	17 Aug 2022	1157	60	<2	11.2	90.59	4.6	33.60	7.6
F06	17 Aug 2022	1142	1	<2	23.1	83.36	8.0	33.57	8.1
F06	17 Aug 2022	1142	25	<2	12.3	90.85	6.0	33.49	7.8
F06	17 Aug 2022	1142	60	<2	11.2	88.74	4.5	33.60	7.6
F07	17 Aug 2022	1125	1	<2	23.5	83.11	8.1	33.58	8.1
F07	17 Aug 2022	1125	25	<2	12.3	89.49	5.6	33.49	7.8
F07	17 Aug 2022	1125	60	<2	11.1	86.41	4.5	33.61	7.6
F08	17 Aug 2022	1111	1	<2	23.2	84.73	8.2	33.58	8.1
F08	17 Aug 2022	1111	25	<2	12.3	90.34	5.5	33.50	7.7
F08	17 Aug 2022	1111	60	4e	11.2	85.94	4.4	33.59	7.6
F09	17 Aug 2022	1058	1	<2	23.2	86.01	7.8	33.58	8.1
F09	17 Aug 2022	1058	25	<2	12.5	89.98	6.6	33.47	7.8
F09	17 Aug 2022	1058	60	4e	11.3	87.25	4.5	33.58	7.6
F10	17 Aug 2022	1043	1	<2	23.4	84.53	7.6	33.58	8.1
F10	17 Aug 2022	1043	25	<2	12.8	89.50	6.3	33.48	7.8
F10	17 Aug 2022	1043	60	2e	11.3	87.70	4.5	33.58	7.6
F11	17 Aug 2022	1029	1	<2	23.4	84.19	7.8	33.58	8.1
F11	17 Aug 2022	1029	25	<2	12.6	87.37	6.3	33.49	7.8
F11	17 Aug 2022	1029	60	8e	11.3	86.28	4.3	33.58	7.6
F12	17 Aug 2022	1014	1	<2	23.3	85.91	7.8	33.58	8.0
F12	17 Aug 2022	1014	25	<2	12.5	83.66	7.3	33.44	7.9
F12	17 Aug 2022	1014	60	4e	11.2	87.66	4.3	33.58	7.6
F13	17 Aug 2022	955	1	<2	21.9	85.44	8.0	33.57	8.0
F13	17 Aug 2022	955	25	<2	12.4	87.26	6.9	33.46	7.8
F13	17 Aug 2022	955	60	4e	11.2	85.13	4.3	33.59	7.6

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F14	17 Aug 2022	940	1	<2	22.6	85.00	7.7	33.59	8.0
F14	17 Aug 2022	940	25	<2	12.4	86.29	6.9	33.46	7.8
F14	17 Aug 2022	940	60	2e	11.2	86.63	4.5	33.59	7.6
F15	18 Aug 2022	1253	1	<2	23.4	86.10	7.9	33.59	8.2
F15	18 Aug 2022	1253	25	<2	13.2	82.11	8.2	33.46	8.1
F15	18 Aug 2022	1253	60	10e	10.9	92.23	4.5	33.64	7.8
F15	18 Aug 2022	1253	80	<2	10.7	89.54	4.3	33.71	7.8
F16	18 Aug 2022	1240	1	<2	22.4	85.17	8.0	33.57	8.2
F16	18 Aug 2022	1240	25	<2	12.9	84.37	7.5	33.47	8.1
F16	18 Aug 2022	1240	60	22e	11.3	92.21	4.9	33.58	7.8
F16	18 Aug 2022	1240	80	4e	10.7	90.18	4.2	33.71	7.8
F17	18 Aug 2022	1223	1	<2	22.8	85.56	8.0	33.54	8.2
F17	18 Aug 2022	1223	25	<2	12.1	90.34	5.9	33.52	8.0
F17	18 Aug 2022	1223	60	160e	10.9	91.56	4.5	33.62	7.8
F17	18 Aug 2022	1223	80	42	10.7	88.81	4.2	33.70	7.8
F18	18 Aug 2022	1206	1	2e	23.0	85.24	8.0	33.59	8.2
F18	18 Aug 2022	1206	25	<2	12.0	90.55	5.9	33.52	8.0
F18	18 Aug 2022	1206	60	60	11.1	92.09	4.7	33.60	7.8
F18	18 Aug 2022	1206	80	48	10.7	87.31	4.2	33.69	7.8
F19	18 Aug 2022	1151	1	<2	23.6	87.41	7.6	33.62	8.2
F19	18 Aug 2022	1151	25	12e	13.2	81.87	8.0	33.47	8.1
F19	18 Aug 2022	1151	60	86	11.0	92.20	4.7	33.60	7.8
F19	18 Aug 2022	1151	80	54	10.7	89.46	4.2	33.70	7.8
F20	18 Aug 2022	1135	1	<2	23.6	86.68	7.6	33.62	8.2
F20	18 Aug 2022	1135	25	<2	12.6	83.63	6.7	33.48	8.0
F20	18 Aug 2022	1135	60	24e	11.0	91.53	4.5	33.61	7.8
F20	18 Aug 2022	1135	80	72	10.6	89.05	4.0	33.76	7.8
F21	18 Aug 2022	1118	1	<2	23.7	87.22	7.6	33.62	8.2
F21	18 Aug 2022	1118	25	<2	13.0	83.44	8.2	33.43	8.1
F21	18 Aug 2022	1118	60	10e	11.0	90.80	4.5	33.62	7.8
F21	18 Aug 2022	1118	80	54	10.7	87.36	4.0	33.69	7.8
F22	18 Aug 2022	1059	1	<2	23.6	87.49	7.5	33.63	8.2
F22	18 Aug 2022	1059	25	<2	12.8	80.74	7.9	33.44	8.1
F22	18 Aug 2022	1059	60	4e	11.1	89.09	4.5	33.61	7.8
F22	18 Aug 2022	1059	80	160e	10.9	87.15	4.2	33.64	7.8
F23	18 Aug 2022	1041	1	<2	23.8	88.52	7.4	33.64	8.2
F23	18 Aug 2022	1041	25	<2	13.0	85.37	7.9	33.43	8.1
F23	18 Aug 2022	1041	60	600	11.1	91.29	4.7	33.58	7.8
F23	18 Aug 2022	1041	80	34e	10.9	89.90	4.4	33.63	7.8
F24	18 Aug 2022	1007	1	<2	23.8	86.06	7.3	33.65	8.2
F24	18 Aug 2022	1007	25	<2	12.8	85.13	7.4	33.45	8.1
F24	18 Aug 2022	1007	60	<2	11.2	92.65	5.1	33.58	7.8
F24	18 Aug 2022	1007	80	8e	11.0	87.07	4.3	33.62	7.8
F25	18 Aug 2022	947	1	<2	23.7	89.04	7.3	33.65	8.2
F25	18 Aug 2022	947	25	<2	12.8	86.18	7.3	33.45	8.0
F25	18 Aug 2022	947	60	2e	11.2	92.34	4.8	33.59	7.8
F25	18 Aug 2022	947	80	56	10.9	88.78	4.3	33.63	7.8
F26	16 Aug 2022	1241	1	<2	23.7	88.73	7.3	33.64	8.2
F26	16 Aug 2022	1241	25	<2	14.2	88.68	8.8	33.40	8.2

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F26	16 Aug 2022	1241	60	200e	11.0	91.80	4.8	33.60	7.8
F26	16 Aug 2022	1241	80	14e	10.5	91.87	4.1	33.79	7.8
F26	16 Aug 2022	1241	98	14e	10.3	91.83	3.7	33.93	7.8
F27	16 Aug 2022	1226	1	<2	23.8	89.52	7.3	33.64	8.2
F27	16 Aug 2022	1226	25	<2	14.1	86.28	8.8	33.42	8.2
F27	16 Aug 2022	1226	60	360e	11.0	90.97	4.7	33.59	7.8
F27	16 Aug 2022	1226	80	160e	10.6	91.74	4.3	33.73	7.8
F27	16 Aug 2022	1226	98	10e	10.3	91.16	3.8	33.90	7.8
F28	16 Aug 2022	1213	1	<2	23.8	88.53	7.3	33.64	8.2
F28	16 Aug 2022	1213	25	<2	13.6	82.13	8.9	33.41	8.2
F28	16 Aug 2022	1213	60	86	11.1	92.31	5.0	33.59	7.9
F28	16 Aug 2022	1213	80	96	10.6	91.98	4.4	33.72	7.8
F28	16 Aug 2022	1213	98	4e	10.3	91.81	3.9	33.88	7.8
F29	16 Aug 2022	1159	1	<2	23.4	88.61	7.6	33.63	8.2
F29	16 Aug 2022	1159	25	<2	12.8	79.95	7.9	33.43	8.1
F29	16 Aug 2022	1159	60	14e	11.1	92.37	5.0	33.59	7.8
F29	16 Aug 2022	1159	80	320e	10.7	90.00	4.3	33.66	7.8
F29	16 Aug 2022	1159	98	38e	10.3	91.71	3.9	33.87	7.8
F30	16 Aug 2022	1145	1	<2	23.5	88.73	7.5	33.62	8.2
F30	16 Aug 2022	1145	25	<2	13.4	81.94	8.7	33.41	8.1
F30	16 Aug 2022	1145	60	660	10.9	90.38	4.7	33.59	7.8
F30	16 Aug 2022	1145	80	60	10.6	90.37	4.3	33.71	7.8
F30	16 Aug 2022	1145	98	280e	10.3	90.34	3.7	33.92	7.7
F31	16 Aug 2022	1043	1	<2	23.4	88.85	7.5	33.62	8.2
F31	16 Aug 2022	1043	25	<2	13.5	84.48	8.7	33.41	8.2
F31	16 Aug 2022	1043	60	<2	11.2	92.28	5.0	33.59	7.8
F31	16 Aug 2022	1043	80	6e	10.7	91.29	4.4	33.70	7.8
F31	16 Aug 2022	1043	98	<2	10.2	91.60	3.6	33.95	7.7
F32	16 Aug 2022	1023	1	<2	23.4	87.74	7.5	33.62	8.2
F32	16 Aug 2022	1023	25	<2	13.4	83.27	8.6	33.41	8.1
F32	16 Aug 2022	1023	60	<2	11.3	92.30	5.2	33.58	7.9
F32	16 Aug 2022	1023	80	6e	10.8	92.32	4.6	33.68	7.8
F32	16 Aug 2022	1023	98	2e	10.2	91.93	3.8	33.91	7.8
F33	16 Aug 2022	1007	1	<2	23.3	87.70	7.6	33.62	8.2
F33	16 Aug 2022	1007	25	<2	13.2	81.27	8.3	33.42	8.1
F33	16 Aug 2022	1007	60	<2	11.2	92.42	5.1	33.60	7.8
F33	16 Aug 2022	1007	80	2e	10.7	92.51	4.5	33.70	7.8
F33	16 Aug 2022	1007	98	2e	10.3	91.79	3.9	33.88	7.8
F34	16 Aug 2022	951	1	<2	23.4	89.42	7.4	33.63	8.2
F34	16 Aug 2022	951	25	<2	13.3	84.25	8.4	33.41	8.1
F34	16 Aug 2022	951	60	<2	11.2	92.40	5.1	33.59	7.8
F34	16 Aug 2022	951	80	20e	10.7	92.42	4.5	33.71	7.8
F34	16 Aug 2022	951	98	2e	10.3	91.32	4.0	33.86	7.8
F35	16 Aug 2022	930	1	<2	22.5	88.70	7.7	33.60	8.2
F35	16 Aug 2022	930	25	<2	13.2	86.55	7.9	33.40	8.1
F35	16 Aug 2022	930	60	<2	11.2	92.50	5.2	33.59	7.8
F35	16 Aug 2022	930	80	<2	10.8	92.31	4.6	33.64	7.8
F35	16 Aug 2022	930	98	4e	10.5	90.21	4.3	33.76	7.8
F36	16 Aug 2022	912	1	<2	23.4	89.90	7.3	33.64	8.2
F36	16 Aug 2022	912	25	<2	13.3	87.80	7.8	33.36	8.1
F36	16 Aug 2022	912	60	<2	11.1	92.47	5.1	33.61	7.8

Station	Date	Time	Depth	Enter	Temp	XMS	DO	Sal	pH
F36	16 Aug 2022	912	80	6e	10.7	92.51	4.5	33.68	7.8
F36	16 Aug 2022	912	98	<2	10.4	91.39	4.0	33.84	7.7

ns = not sampled

ND = no data

**Table 4.3**

Summary of visual observations made during the month for each PLOO offshore station by sample date.

Station	Date	Parameter	Value
F15	18 Aug 2022	Depth (m)	83
F15	18 Aug 2022	Arrive Time	1256
F15	18 Aug 2022	Depart Time	1310
F15	18 Aug 2022	Air Temp (C)	21.8
F15	18 Aug 2022	Weather	Clear
F15	18 Aug 2022	Visibility (mi)	10
F15	18 Aug 2022	Wind Speed (kts)	10.4
F15	18 Aug 2022	Wind Dir	NW
F15	18 Aug 2022	Water Color	Blueish-Green
F15	18 Aug 2022	Wave Ht Low (ft)	3
F15	18 Aug 2022	Wave Period (sec)	13
F15	18 Aug 2022	Sea State	Light Chop
F15	18 Aug 2022	High Tide (ft)	4.86
F15	18 Aug 2022	High Tide Time	2154
F15	18 Aug 2022	Low Tide (ft)	1.48
F15	18 Aug 2022	Low Tide Time	536
F15	18 Aug 2022	Comments	OA Samples Bottle #00021 1m Niskin #5; Bottle #00022 80m Niskin #4
F16	18 Aug 2022	Depth (m)	82
F16	18 Aug 2022	Arrive Time	1240
F16	18 Aug 2022	Depart Time	1246
F16	18 Aug 2022	Air Temp (C)	21.8
F16	18 Aug 2022	Weather	Clear
F16	18 Aug 2022	Visibility (mi)	10
F16	18 Aug 2022	Wind Speed (kts)	8.5
F16	18 Aug 2022	Wind Dir	NW
F16	18 Aug 2022	Water Color	Blueish-Green
F16	18 Aug 2022	Wave Ht Low (ft)	3
F16	18 Aug 2022	Wave Period (sec)	13
F16	18 Aug 2022	Sea State	Light Chop
F16	18 Aug 2022	High Tide (ft)	4.86
F16	18 Aug 2022	High Tide Time	2154
F16	18 Aug 2022	Low Tide (ft)	1.48
F16	18 Aug 2022	Low Tide Time	536
F16	18 Aug 2022	Comments	none
F17	18 Aug 2022	Depth (m)	82
F17	18 Aug 2022	Arrive Time	1223
F17	18 Aug 2022	Depart Time	1230
F17	18 Aug 2022	Air Temp (C)	21.9
F17	18 Aug 2022	Weather	Clear
F17	18 Aug 2022	Visibility (mi)	10
F17	18 Aug 2022	Wind Speed (kts)	11
F17	18 Aug 2022	Wind Dir	NW
F17	18 Aug 2022	Water Color	Blueish-Green
F17	18 Aug 2022	Wave Ht Low (ft)	3
F17	18 Aug 2022	Wave Period (sec)	13
F17	18 Aug 2022	Sea State	Light Chop
F17	18 Aug 2022	High Tide (ft)	4.86
F17	18 Aug 2022	High Tide Time	2154
F17	18 Aug 2022	Low Tide (ft)	1.48
F17	18 Aug 2022	Low Tide Time	536
F17	18 Aug 2022	Comments	none
F18	18 Aug 2022	Depth (m)	82

Station	Date	Parameter	Value
F18	18 Aug 2022	Arrive Time	1206
F18	18 Aug 2022	Depart Time	1212
F18	18 Aug 2022	Air Temp (C)	21.9
F18	18 Aug 2022	Weather	Clear
F18	18 Aug 2022	Visibility (mi)	10
F18	18 Aug 2022	Wind Speed (kts)	8.7
F18	18 Aug 2022	Wind Dir	NW
F18	18 Aug 2022	Water Color	Blueish-Green
F18	18 Aug 2022	Wave Ht Low (ft)	3
F18	18 Aug 2022	Wave Period (sec)	13
F18	18 Aug 2022	Sea State	Light Chop
F18	18 Aug 2022	High Tide (ft)	4.86
F18	18 Aug 2022	High Tide Time	2154
F18	18 Aug 2022	Low Tide (ft)	1.48
F18	18 Aug 2022	Low Tide Time	536
F18	18 Aug 2022	Comments	none
F19	18 Aug 2022	Depth (m)	83
F19	18 Aug 2022	Arrive Time	1151
F19	18 Aug 2022	Depart Time	1157
F19	18 Aug 2022	Air Temp (C)	22
F19	18 Aug 2022	Weather	Clear
F19	18 Aug 2022	Visibility (mi)	10
F19	18 Aug 2022	Wind Speed (kts)	8.3
F19	18 Aug 2022	Wind Dir	NW
F19	18 Aug 2022	Water Color	Blueish-Green
F19	18 Aug 2022	Wave Ht Low (ft)	3
F19	18 Aug 2022	Wave Period (sec)	13
F19	18 Aug 2022	Sea State	Light Chop
F19	18 Aug 2022	High Tide (ft)	4.86
F19	18 Aug 2022	High Tide Time	2154
F19	18 Aug 2022	Low Tide (ft)	1.48
F19	18 Aug 2022	Low Tide Time	536
F19	18 Aug 2022	Comments	none
F20	18 Aug 2022	Depth (m)	82
F20	18 Aug 2022	Arrive Time	1135
F20	18 Aug 2022	Depart Time	1141
F20	18 Aug 2022	Air Temp (C)	22.1
F20	18 Aug 2022	Weather	Clear
F20	18 Aug 2022	Visibility (mi)	10
F20	18 Aug 2022	Wind Speed (kts)	7.9
F20	18 Aug 2022	Wind Dir	NW
F20	18 Aug 2022	Water Color	Blueish-Green
F20	18 Aug 2022	Wave Ht Low (ft)	3
F20	18 Aug 2022	Wave Period (sec)	13
F20	18 Aug 2022	Sea State	Calm
F20	18 Aug 2022	High Tide (ft)	4.86
F20	18 Aug 2022	High Tide Time	2154
F20	18 Aug 2022	Low Tide (ft)	1.48
F20	18 Aug 2022	Low Tide Time	536
F20	18 Aug 2022	Comments	none
F21	18 Aug 2022	Depth (m)	84
F21	18 Aug 2022	Arrive Time	1118
F21	18 Aug 2022	Depart Time	1123
F21	18 Aug 2022	Air Temp (C)	21.9
F21	18 Aug 2022	Weather	Clear
F21	18 Aug 2022	Visibility (mi)	10
F21	18 Aug 2022	Wind Speed (kts)	8.7
F21	18 Aug 2022	Wind Dir	NW

Station	Date	Parameter	Value
F21	18 Aug 2022	Water Color	Blueish-Green
F21	18 Aug 2022	Wave Ht Low (ft)	3
F21	18 Aug 2022	Wave Period (sec)	13
F21	18 Aug 2022	Sea State	Calm
F21	18 Aug 2022	High Tide (ft)	4.86
F21	18 Aug 2022	High Tide Time	2154
F21	18 Aug 2022	Low Tide (ft)	1.48
F21	18 Aug 2022	Low Tide Time	536
F21	18 Aug 2022	Comments	none
F22	18 Aug 2022	Depth (m)	81
F22	18 Aug 2022	Arrive Time	1059
F22	18 Aug 2022	Depart Time	1104
F22	18 Aug 2022	Air Temp (C)	21.8
F22	18 Aug 2022	Weather	Clear
F22	18 Aug 2022	Visibility (mi)	10
F22	18 Aug 2022	Wind Speed (kts)	5.9
F22	18 Aug 2022	Wind Dir	W
F22	18 Aug 2022	Water Color	Blueish-Green
F22	18 Aug 2022	Wave Ht Low (ft)	3
F22	18 Aug 2022	Wave Period (sec)	13
F22	18 Aug 2022	Sea State	Calm
F22	18 Aug 2022	High Tide (ft)	4.86
F22	18 Aug 2022	High Tide Time	2154
F22	18 Aug 2022	Low Tide (ft)	1.48
F22	18 Aug 2022	Low Tide Time	536
F22	18 Aug 2022	Comments	none
F24	18 Aug 2022	Depth (m)	82
F24	18 Aug 2022	Arrive Time	1007
F24	18 Aug 2022	Depart Time	1015
F24	18 Aug 2022	Air Temp (C)	21.9
F24	18 Aug 2022	Weather	Clear
F24	18 Aug 2022	Visibility (mi)	10
F24	18 Aug 2022	Wind Speed (kts)	5.1
F24	18 Aug 2022	Wind Dir	NW
F24	18 Aug 2022	Water Color	Blueish-Green
F24	18 Aug 2022	Wave Ht Low (ft)	3
F24	18 Aug 2022	Wave Period (sec)	13
F24	18 Aug 2022	Sea State	Calm
F24	18 Aug 2022	High Tide (ft)	4.86
F24	18 Aug 2022	High Tide Time	2154
F24	18 Aug 2022	Low Tide (ft)	1.48
F24	18 Aug 2022	Low Tide Time	536
F24	18 Aug 2022	Comments	none
F25	18 Aug 2022	Depth (m)	80
F25	18 Aug 2022	Arrive Time	947
F25	18 Aug 2022	Depart Time	955
F25	18 Aug 2022	Air Temp (C)	21.9
F25	18 Aug 2022	Weather	Clear
F25	18 Aug 2022	Visibility (mi)	10
F25	18 Aug 2022	Wind Speed (kts)	4
F25	18 Aug 2022	Wind Dir	NW
F25	18 Aug 2022	Water Color	Bluesish-Green
F25	18 Aug 2022	Wave Ht Low (ft)	3
F25	18 Aug 2022	Wave Period (sec)	13
F25	18 Aug 2022	Sea State	Calm
F25	18 Aug 2022	High Tide (ft)	4.86
F25	18 Aug 2022	High Tide Time	2154
F25	18 Aug 2022	Low Tide (ft)	1.48

Station	Date	Parameter	Value
F25	18 Aug 2022	Low Tide Time	536
F25	18 Aug 2022	Comments	none
F26	16 Aug 2022	Depth (m)	100
F26	16 Aug 2022	Arrive Time	1241
F26	16 Aug 2022	Depart Time	1247
F26	16 Aug 2022	Air Temp (C)	21.4
F26	16 Aug 2022	Weather	Partly Cloudy
F26	16 Aug 2022	Visibility (mi)	10
F26	16 Aug 2022	Wind Speed (kts)	7.8
F26	16 Aug 2022	Wind Dir	NW
F26	16 Aug 2022	Water Color	Blue
F26	16 Aug 2022	Wave Ht Low (ft)	3.3
F26	16 Aug 2022	Wave Period (sec)	13
F26	16 Aug 2022	Sea State	Regular Swell
F26	16 Aug 2022	High Tide (ft)	5.01
F26	16 Aug 2022	High Tide Time	2012
F26	16 Aug 2022	Low Tide (ft)	0.85
F26	16 Aug 2022	Low Tide Time	1342
F26	16 Aug 2022	Comments	none
F27	16 Aug 2022	Depth (m)	101
F27	16 Aug 2022	Arrive Time	1226
F27	16 Aug 2022	Depart Time	1233
F27	16 Aug 2022	Air Temp (C)	21.4
F27	16 Aug 2022	Weather	Partly Cloudy
F27	16 Aug 2022	Visibility (mi)	10
F27	16 Aug 2022	Wind Speed (kts)	7.2
F27	16 Aug 2022	Wind Dir	W
F27	16 Aug 2022	Water Color	Blue
F27	16 Aug 2022	Wave Ht Low (ft)	3.3
F27	16 Aug 2022	Wave Period (sec)	13
F27	16 Aug 2022	Sea State	Regular Swell
F27	16 Aug 2022	High Tide (ft)	5.01
F27	16 Aug 2022	High Tide Time	2012
F27	16 Aug 2022	Low Tide (ft)	0.85
F27	16 Aug 2022	Low Tide Time	1342
F27	16 Aug 2022	Comments	none
F28	16 Aug 2022	Depth (m)	102
F28	16 Aug 2022	Arrive Time	1213
F28	16 Aug 2022	Depart Time	1219
F28	16 Aug 2022	Air Temp (C)	21.4
F28	16 Aug 2022	Weather	Partly Cloudy
F28	16 Aug 2022	Visibility (mi)	10
F28	16 Aug 2022	Wind Speed (kts)	5.6
F28	16 Aug 2022	Wind Dir	NW
F28	16 Aug 2022	Water Color	Blue
F28	16 Aug 2022	Wave Ht Low (ft)	3.3
F28	16 Aug 2022	Wave Period (sec)	13
F28	16 Aug 2022	Sea State	Regular Swell
F28	16 Aug 2022	High Tide (ft)	5.01
F28	16 Aug 2022	High Tide Time	2012
F28	16 Aug 2022	Low Tide (ft)	0.85
F28	16 Aug 2022	Low Tide Time	1342
F28	16 Aug 2022	Comments	none
F29	16 Aug 2022	Depth (m)	101
F29	16 Aug 2022	Arrive Time	1159
F29	16 Aug 2022	Depart Time	1206
F29	16 Aug 2022	Air Temp (C)	21.4

Station	Date	Parameter	Value
F29	16 Aug 2022	Weather	Overcast
F29	16 Aug 2022	Visibility (mi)	6
F29	16 Aug 2022	Wind Speed (kts)	6.2
F29	16 Aug 2022	Wind Dir	W
F29	16 Aug 2022	Water Color	Blue
F29	16 Aug 2022	Wave Ht Low (ft)	3.3
F29	16 Aug 2022	Wave Period (sec)	13
F29	16 Aug 2022	Sea State	Regular Swell
F29	16 Aug 2022	High Tide (ft)	5.01
F29	16 Aug 2022	High Tide Time	2012
F29	16 Aug 2022	Low Tide (ft)	0.85
F29	16 Aug 2022	Low Tide Time	1342
F29	16 Aug 2022	Comments	none
F30	16 Aug 2022	Depth (m)	99
F30	16 Aug 2022	Arrive Time	1145
F30	16 Aug 2022	Depart Time	1153
F30	16 Aug 2022	Air Temp (C)	21.4
F30	16 Aug 2022	Weather	Overcast
F30	16 Aug 2022	Visibility (mi)	6
F30	16 Aug 2022	Wind Speed (kts)	6.9
F30	16 Aug 2022	Wind Dir	NW
F30	16 Aug 2022	Water Color	Blue
F30	16 Aug 2022	Wave Ht Low (ft)	3.3
F30	16 Aug 2022	Wave Period (sec)	13
F30	16 Aug 2022	Sea State	Wind Ripples
F30	16 Aug 2022	High Tide (ft)	5.01
F30	16 Aug 2022	High Tide Time	2012
F30	16 Aug 2022	Low Tide (ft)	0.85
F30	16 Aug 2022	Low Tide Time	1342
F30	16 Aug 2022	Comments	none
F31	16 Aug 2022	Depth (m)	101
F31	16 Aug 2022	Arrive Time	1043
F31	16 Aug 2022	Depart Time	1051
F31	16 Aug 2022	Air Temp (C)	21.7
F31	16 Aug 2022	Weather	Overcast
F31	16 Aug 2022	Visibility (mi)	6
F31	16 Aug 2022	Wind Speed (kts)	5.9
F31	16 Aug 2022	Wind Dir	NW
F31	16 Aug 2022	Water Color	Blue
F31	16 Aug 2022	Wave Ht Low (ft)	3.3
F31	16 Aug 2022	Wave Period (sec)	13
F31	16 Aug 2022	Sea State	Wind Ripples
F31	16 Aug 2022	High Tide (ft)	5.01
F31	16 Aug 2022	High Tide Time	2012
F31	16 Aug 2022	Low Tide (ft)	0.85
F31	16 Aug 2022	Low Tide Time	1342
F31	16 Aug 2022	Comments	none
F32	16 Aug 2022	Depth (m)	100
F32	16 Aug 2022	Arrive Time	1023
F32	16 Aug 2022	Depart Time	1037
F32	16 Aug 2022	Air Temp (C)	21.6
F32	16 Aug 2022	Weather	Overcast
F32	16 Aug 2022	Visibility (mi)	6
F32	16 Aug 2022	Wind Speed (kts)	3.7
F32	16 Aug 2022	Wind Dir	NW
F32	16 Aug 2022	Water Color	Blue
F32	16 Aug 2022	Wave Ht Low (ft)	3.3
F32	16 Aug 2022	Wave Period (sec)	13

Station	Date	Parameter	Value
F32	16 Aug 2022	Sea State	Wind Ripples
F32	16 Aug 2022	High Tide (ft)	5.01
F32	16 Aug 2022	High Tide Time	2012
F32	16 Aug 2022	Low Tide (ft)	0.85
F32	16 Aug 2022	Low Tide Time	1342
F32	16 Aug 2022	Comments	Bottle 4 misfire; 2nd cast for 80m sample; save 1st CTD cast
F33	16 Aug 2022	Depth (m)	101
F33	16 Aug 2022	Arrive Time	1007
F33	16 Aug 2022	Depart Time	1015
F33	16 Aug 2022	Air Temp (C)	21.5
F33	16 Aug 2022	Weather	Overcast
F33	16 Aug 2022	Visibility (mi)	6
F33	16 Aug 2022	Wind Speed (kts)	3.7
F33	16 Aug 2022	Wind Dir	N
F33	16 Aug 2022	Water Color	Blue
F33	16 Aug 2022	Wave Ht Low (ft)	3.3
F33	16 Aug 2022	Wave Period (sec)	13
F33	16 Aug 2022	Sea State	Wind Ripples
F33	16 Aug 2022	High Tide (ft)	5.01
F33	16 Aug 2022	High Tide Time	2012
F33	16 Aug 2022	Low Tide (ft)	0.85
F33	16 Aug 2022	Low Tide Time	1342
F33	16 Aug 2022	Comments	none
F34	16 Aug 2022	Depth (m)	101
F34	16 Aug 2022	Arrive Time	951
F34	16 Aug 2022	Depart Time	959
F34	16 Aug 2022	Air Temp (C)	21.2
F34	16 Aug 2022	Weather	Overcast
F34	16 Aug 2022	Visibility (mi)	6
F34	16 Aug 2022	Wind Speed (kts)	3.6
F34	16 Aug 2022	Wind Dir	N
F34	16 Aug 2022	Water Color	Blue
F34	16 Aug 2022	Wave Ht Low (ft)	3.3
F34	16 Aug 2022	Wave Period (sec)	13
F34	16 Aug 2022	Sea State	Wind Ripples
F34	16 Aug 2022	High Tide (ft)	5.01
F34	16 Aug 2022	High Tide Time	2012
F34	16 Aug 2022	Low Tide (ft)	0.85
F34	16 Aug 2022	Low Tide Time	1342
F34	16 Aug 2022	Comments	none
F35	16 Aug 2022	Depth (m)	100
F35	16 Aug 2022	Arrive Time	930
F35	16 Aug 2022	Depart Time	948
F35	16 Aug 2022	Air Temp (C)	21.2
F35	16 Aug 2022	Weather	Overcast
F35	16 Aug 2022	Visibility (mi)	6
F35	16 Aug 2022	Wind Speed (kts)	2.7
F35	16 Aug 2022	Wind Dir	NE
F35	16 Aug 2022	Water Color	Blue
F35	16 Aug 2022	Wave Ht Low (ft)	3.3
F35	16 Aug 2022	Wave Period (sec)	13
F35	16 Aug 2022	Sea State	Wind Ripples
F35	16 Aug 2022	High Tide (ft)	5.01
F35	16 Aug 2022	High Tide Time	2012
F35	16 Aug 2022	Low Tide (ft)	0.85
F35	16 Aug 2022	Low Tide Time	1342
F35	16 Aug 2022	Comments	Single cast with bottles on upcast

Station	Date	Parameter	Value
F36	16 Aug 2022	Depth (m)	100
F36	16 Aug 2022	Arrive Time	912
F36	16 Aug 2022	Depart Time	924
F36	16 Aug 2022	Air Temp (C)	21.1
F36	16 Aug 2022	Weather	Overcast
F36	16 Aug 2022	Visibility (mi)	6
F36	16 Aug 2022	Wind Speed (kts)	1.9
F36	16 Aug 2022	Wind Dir	N
F36	16 Aug 2022	Water Color	Blue
F36	16 Aug 2022	Wave Ht Low (ft)	3.3
F36	16 Aug 2022	Wave Period (sec)	13
F36	16 Aug 2022	Sea State	Wind Ripples
F36	16 Aug 2022	High Tide (ft)	5.01
F36	16 Aug 2022	High Tide Time	2012
F36	16 Aug 2022	Low Tide (ft)	0.85
F36	16 Aug 2022	Low Tide Time	1342
F36	16 Aug 2022	Comments	none

**Table 4.4**

Summary of CTD profile data from the PLOO offshore stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F01	17 Aug 2022	1	19.26	74.51	8.0	33.52	8.0	23.8	1.72
F01	17 Aug 2022	2	18.43	75.19	7.7	33.50	8.0	24.0	1.57
F01	17 Aug 2022	3	17.19	78.17	7.4	33.48	7.9	24.3	1.52
F01	17 Aug 2022	4	16.55	79.23	7.3	33.48	7.9	24.5	1.77
F01	17 Aug 2022	5	15.90	79.29	7.2	33.46	7.9	24.6	2.12
F01	17 Aug 2022	6	15.06	80.20	7.3	33.46	7.9	24.8	2.51
F01	17 Aug 2022	7	14.76	81.51	7.4	33.45	7.9	24.8	2.74
F01	17 Aug 2022	8	14.39	83.10	7.4	33.44	7.9	24.9	3.09
F01	17 Aug 2022	9	14.15	83.97	7.4	33.45	7.9	25.0	3.12
F01	17 Aug 2022	10	14.03	84.68	7.1	33.45	7.9	25.0	3.16
F01	17 Aug 2022	11	14.00	85.43	6.9	33.46	7.8	25.0	2.97
F01	17 Aug 2022	12	13.97	85.50	6.8	33.46	7.8	25.0	2.83
F01	17 Aug 2022	13	13.93	86.15	6.6	33.46	7.8	25.0	2.78
F01	17 Aug 2022	14	13.64	86.63	6.4	33.46	7.8	25.1	2.47
F01	17 Aug 2022	15	13.45	86.68	6.3	33.47	7.8	25.1	2.52
F01	17 Aug 2022	16	13.34	87.09	6.2	33.47	7.8	25.1	2.58
F01	17 Aug 2022	17	13.19	87.04	6.1	33.47	7.8	25.2	2.64
F01	17 Aug 2022	18	13.13	87.31	6.0	33.48	7.8	25.2	2.39
F01	17 Aug 2022	19	13.02	88.21	5.8	33.48	7.8	25.2	2.05
F01	17 Aug 2022	20	12.85	88.66	5.6	33.48	7.7	25.2	1.61
F02	17 Aug 2022	1	21.50	82.10	7.3	33.56	8.0	23.3	1.64
F02	17 Aug 2022	2	21.04	81.84	7.3	33.55	8.0	23.4	1.71
F02	17 Aug 2022	3	20.15	81.81	7.4	33.54	8.0	23.6	1.74
F02	17 Aug 2022	4	19.59	81.68	7.6	33.52	8.0	23.7	1.65
F02	17 Aug 2022	5	19.07	82.61	7.8	33.52	8.0	23.9	1.55
F02	17 Aug 2022	6	18.54	82.99	7.8	33.49	8.0	24.0	1.52
F02	17 Aug 2022	7	17.09	84.02	8.2	33.48	8.0	24.3	1.45
F02	17 Aug 2022	8	16.41	84.75	8.1	33.43	8.0	24.4	1.35
F02	17 Aug 2022	9	14.92	86.27	8.5	33.45	8.0	24.8	1.41
F02	17 Aug 2022	10	15.19	86.94	8.1	33.43	7.9	24.7	1.61
F02	17 Aug 2022	11	13.94	85.97	8.1	33.44	7.9	25.0	2.34
F02	17 Aug 2022	12	13.76	84.79	8.0	33.44	7.9	25.0	3.15
F02	17 Aug 2022	13	13.46	83.29	7.8	33.44	7.9	25.1	4.19
F02	17 Aug 2022	14	13.06	82.10	7.5	33.45	7.9	25.2	5.03
F02	17 Aug 2022	15	13.00	82.33	7.2	33.46	7.8	25.2	5.32
F02	17 Aug 2022	16	12.85	83.78	6.8	33.47	7.8	25.2	4.93
F02	17 Aug 2022	17	12.71	85.95	6.3	33.48	7.8	25.3	3.71
F02	17 Aug 2022	18	12.54	87.07	6.0	33.49	7.8	25.3	2.83
F02	17 Aug 2022	19	12.51	88.26	5.8	33.49	7.7	25.3	2.56
F02	17 Aug 2022	20	12.49	88.74	5.8	33.49	7.7	25.3	2.24
F03	17 Aug 2022	1	22.32	83.04	7.6	33.58	8.0	23.0	1.38
F03	17 Aug 2022	2	22.21	83.21	7.7	33.57	8.0	23.1	1.43
F03	17 Aug 2022	3	22.03	83.65	7.6	33.56	8.0	23.1	1.41
F03	17 Aug 2022	4	20.90	84.37	7.9	33.54	8.0	23.4	1.34
F03	17 Aug 2022	5	20.02	85.51	7.8	33.51	8.0	23.6	1.24
F03	17 Aug 2022	6	17.87	85.34	8.1	33.49	8.0	24.1	1.28
F03	17 Aug 2022	7	17.05	85.04	8.3	33.46	8.0	24.3	1.23
F03	17 Aug 2022	8	16.73	85.20	8.3	33.45	8.0	24.4	1.29
F03	17 Aug 2022	9	16.35	85.05	8.2	33.45	8.0	24.5	1.42
F03	17 Aug 2022	10	15.55	84.43	8.1	33.45	8.0	24.7	1.72
F03	17 Aug 2022	11	15.18	83.79	8.0	33.44	7.9	24.7	1.97
F03	17 Aug 2022	12	14.07	84.06	7.9	33.45	7.9	25.0	2.84
F03	17 Aug 2022	13	13.70	83.64	7.7	33.44	7.9	25.0	3.83
F03	17 Aug 2022	14	13.25	82.69	7.3	33.45	7.9	25.1	4.25

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F03	17 Aug 2022	15	13.04	83.00	7.0	33.46	7.8	25.2	4.02
F03	17 Aug 2022	16	12.95	84.37	6.8	33.46	7.8	25.2	4.08
F03	17 Aug 2022	17	12.88	84.82	6.7	33.46	7.8	25.2	4.37
F03	17 Aug 2022	18	12.75	84.68	6.4	33.48	7.8	25.3	4.18
F03	17 Aug 2022	19	12.68	85.09	6.1	33.48	7.8	25.3	3.61
F04	17 Aug 2022	1	23.04	85.56	7.9	33.57	8.1	22.8	0.68
F04	17 Aug 2022	2	22.83	85.58	7.9	33.57	8.1	22.9	0.69
F04	17 Aug 2022	3	22.51	85.36	7.9	33.57	8.1	23.0	0.69
F04	17 Aug 2022	4	22.45	85.28	7.9	33.56	8.1	23.0	0.72
F04	17 Aug 2022	5	22.18	85.04	7.9	33.56	8.1	23.1	0.76
F04	17 Aug 2022	6	22.19	84.99	7.8	33.55	8.1	23.1	0.77
F04	17 Aug 2022	7	22.05	84.85	7.8	33.55	8.1	23.1	0.78
F04	17 Aug 2022	8	21.87	84.93	7.9	33.55	8.1	23.2	0.79
F04	17 Aug 2022	9	21.79	85.02	7.9	33.55	8.1	23.2	0.83
F04	17 Aug 2022	10	21.79	85.03	8.0	33.55	8.1	23.2	0.85
F04	17 Aug 2022	11	21.73	84.93	8.0	33.55	8.1	23.2	0.86
F04	17 Aug 2022	12	21.73	84.96	8.0	33.55	8.1	23.2	0.85
F04	17 Aug 2022	13	21.67	84.90	7.9	33.55	8.1	23.2	0.89
F04	17 Aug 2022	14	21.39	84.71	7.9	33.55	8.1	23.3	0.91
F04	17 Aug 2022	15	21.19	84.43	7.8	33.55	8.1	23.3	0.97
F04	17 Aug 2022	16	20.69	84.36	7.8	33.53	8.1	23.5	0.94
F04	17 Aug 2022	17	19.98	83.87	7.8	33.54	8.0	23.7	0.99
F04	17 Aug 2022	18	19.69	83.85	7.7	33.53	8.0	23.7	1.01
F04	17 Aug 2022	19	18.83	84.35	7.5	33.50	8.0	23.9	0.98
F04	17 Aug 2022	20	16.87	84.49	7.7	33.49	8.0	24.4	1.05
F04	17 Aug 2022	21	15.86	84.97	7.8	33.45	8.0	24.6	1.13
F04	17 Aug 2022	22	14.90	85.59	8.0	33.45	8.0	24.8	1.19
F04	17 Aug 2022	23	14.50	86.34	7.9	33.42	8.0	24.9	1.21
F04	17 Aug 2022	24	13.98	86.44	7.9	33.43	8.0	25.0	1.38
F04	17 Aug 2022	25	13.74	85.47	7.8	33.44	8.0	25.0	1.64
F04	17 Aug 2022	26	13.49	85.37	7.6	33.44	7.9	25.1	2.04
F04	17 Aug 2022	27	13.21	85.68	7.4	33.45	7.9	25.1	2.40
F04	17 Aug 2022	28	13.06	86.07	7.3	33.45	7.9	25.2	2.70
F04	17 Aug 2022	29	12.74	86.90	7.1	33.47	7.9	25.3	2.76
F04	17 Aug 2022	30	12.57	87.93	6.9	33.47	7.9	25.3	2.65
F04	17 Aug 2022	31	12.52	88.09	6.8	33.48	7.9	25.3	2.51
F04	17 Aug 2022	32	12.50	88.43	6.7	33.48	7.9	25.3	2.35
F04	17 Aug 2022	33	12.45	88.67	6.6	33.48	7.8	25.3	2.32
F04	17 Aug 2022	34	12.39	88.95	6.5	33.48	7.8	25.3	2.25
F04	17 Aug 2022	35	12.28	89.42	6.3	33.50	7.8	25.4	2.15
F04	17 Aug 2022	36	12.07	90.33	6.0	33.51	7.8	25.4	1.96
F04	17 Aug 2022	37	11.97	90.58	5.8	33.52	7.8	25.4	1.62
F04	17 Aug 2022	38	11.93	90.88	5.7	33.52	7.8	25.5	1.70
F04	17 Aug 2022	39	11.91	91.21	5.6	33.52	7.8	25.5	1.42
F04	17 Aug 2022	40	11.83	91.26	5.5	33.53	7.8	25.5	1.35
F04	17 Aug 2022	41	11.72	91.46	5.4	33.54	7.8	25.5	1.24
F04	17 Aug 2022	42	11.66	91.75	5.3	33.55	7.7	25.5	1.15
F04	17 Aug 2022	43	11.56	91.85	5.3	33.55	7.7	25.5	1.06
F04	17 Aug 2022	44	11.53	91.96	5.2	33.56	7.7	25.6	0.95
F04	17 Aug 2022	45	11.53	91.97	5.2	33.56	7.7	25.6	0.95
F04	17 Aug 2022	46	11.49	91.97	5.2	33.56	7.7	25.6	0.91
F04	17 Aug 2022	47	11.39	91.99	5.1	33.57	7.7	25.6	0.86
F04	17 Aug 2022	48	11.36	92.16	5.1	33.57	7.7	25.6	0.79
F04	17 Aug 2022	49	11.30	92.27	5.0	33.58	7.7	25.6	0.70
F04	17 Aug 2022	50	11.26	92.31	4.9	33.59	7.7	25.6	0.66
F04	17 Aug 2022	51	11.21	92.13	4.8	33.60	7.7	25.6	0.62
F04	17 Aug 2022	52	11.21	91.98	4.8	33.60	7.7	25.6	0.60
F04	17 Aug 2022	53	11.20	91.89	4.7	33.60	7.7	25.7	0.56
F04	17 Aug 2022	54	11.20	91.48	4.7	33.61	7.7	25.7	0.57
F04	17 Aug 2022	55	11.20	91.02	4.7	33.61	7.7	25.7	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F04	17 Aug 2022	56	11.19	90.83	4.6	33.61	7.7	25.7	0.57
F04	17 Aug 2022	57	11.19	90.77	4.7	33.61	7.7	25.7	0.56
F04	17 Aug 2022	58	11.19	90.72	4.7	33.61	7.7	25.7	0.56
F04	17 Aug 2022	59	11.19	90.62	4.6	33.61	7.7	25.7	0.55
F04	17 Aug 2022	60	11.20	90.60	4.7	33.61	7.7	25.7	0.56
F04	17 Aug 2022	61	11.20	90.51	4.7	33.61	7.7	25.7	0.56
F05	17 Aug 2022	1	22.53	84.76	7.9	33.56	8.1	23.0	0.72
F05	17 Aug 2022	2	21.60	84.86	7.4	33.51	8.1	23.2	0.75
F05	17 Aug 2022	3	19.04	84.85	7.3	33.42	8.0	23.8	0.81
F05	17 Aug 2022	4	16.27	84.10	7.8	33.47	8.0	24.5	0.92
F05	17 Aug 2022	5	15.73	84.47	7.8	33.43	8.0	24.6	1.02
F05	17 Aug 2022	6	14.96	85.35	7.6	33.39	8.0	24.7	1.13
F05	17 Aug 2022	7	14.12	85.67	7.5	33.41	7.9	24.9	1.25
F05	17 Aug 2022	8	13.76	85.74	7.5	33.41	7.9	25.0	1.38
F05	17 Aug 2022	9	13.48	86.62	7.4	33.41	7.9	25.1	1.65
F05	17 Aug 2022	10	13.40	86.62	7.3	33.42	7.9	25.1	1.82
F05	17 Aug 2022	11	13.27	86.41	7.3	33.43	7.9	25.1	2.05
F05	17 Aug 2022	12	13.06	86.46	7.1	33.44	7.9	25.2	2.07
F05	17 Aug 2022	13	12.62	87.80	6.8	33.45	7.9	25.3	2.00
F05	17 Aug 2022	14	12.59	89.03	6.6	33.46	7.8	25.3	1.84
F05	17 Aug 2022	15	12.53	89.01	6.6	33.47	7.8	25.3	1.89
F05	17 Aug 2022	16	12.51	89.04	6.5	33.47	7.8	25.3	1.74
F05	17 Aug 2022	17	12.50	89.34	6.5	33.48	7.8	25.3	1.91
F05	17 Aug 2022	18	12.47	89.50	6.5	33.48	7.8	25.3	1.94
F05	17 Aug 2022	19	12.41	89.55	6.4	33.49	7.8	25.3	1.93
F05	17 Aug 2022	20	12.40	89.54	6.3	33.49	7.8	25.3	1.78
F05	17 Aug 2022	21	12.37	89.77	6.3	33.49	7.8	25.3	1.92
F05	17 Aug 2022	22	12.32	89.79	6.2	33.50	7.8	25.4	1.82
F05	17 Aug 2022	23	12.25	90.02	6.1	33.50	7.8	25.4	1.73
F05	17 Aug 2022	24	12.12	90.27	6.0	33.51	7.8	25.4	1.74
F05	17 Aug 2022	25	12.05	90.47	5.9	33.51	7.8	25.4	1.55
F05	17 Aug 2022	26	12.01	90.86	5.8	33.51	7.8	25.4	1.59
F05	17 Aug 2022	27	12.00	90.90	5.7	33.51	7.8	25.4	1.42
F05	17 Aug 2022	28	11.97	90.88	5.7	33.51	7.8	25.4	1.35
F05	17 Aug 2022	29	11.93	91.12	5.7	33.52	7.8	25.4	1.46
F05	17 Aug 2022	30	11.93	91.24	5.6	33.52	7.8	25.5	1.36
F05	17 Aug 2022	31	11.91	91.16	5.6	33.52	7.8	25.5	1.34
F05	17 Aug 2022	32	11.89	91.21	5.6	33.52	7.7	25.5	1.31
F05	17 Aug 2022	33	11.87	91.18	5.6	33.52	7.7	25.5	1.34
F05	17 Aug 2022	34	11.87	91.16	5.5	33.52	7.7	25.5	1.27
F05	17 Aug 2022	35	11.86	91.25	5.5	33.52	7.7	25.5	1.23
F05	17 Aug 2022	36	11.86	91.22	5.5	33.52	7.7	25.5	1.24
F05	17 Aug 2022	37	11.86	91.22	5.5	33.52	7.7	25.5	1.26
F05	17 Aug 2022	38	11.83	91.34	5.5	33.52	7.7	25.5	1.25
F05	17 Aug 2022	39	11.83	91.29	5.5	33.53	7.7	25.5	1.27
F05	17 Aug 2022	40	11.75	91.36	5.4	33.53	7.7	25.5	1.22
F05	17 Aug 2022	41	11.73	91.42	5.4	33.54	7.7	25.5	1.26
F05	17 Aug 2022	42	11.70	91.39	5.3	33.54	7.7	25.5	1.14
F05	17 Aug 2022	43	11.63	91.46	5.3	33.54	7.7	25.5	1.12
F05	17 Aug 2022	44	11.60	91.61	5.2	33.55	7.7	25.5	1.06
F05	17 Aug 2022	45	11.55	91.77	5.2	33.55	7.7	25.5	1.22
F05	17 Aug 2022	46	11.53	91.71	5.1	33.56	7.7	25.6	1.03
F05	17 Aug 2022	47	11.52	91.77	5.1	33.56	7.7	25.6	0.95
F05	17 Aug 2022	48	11.50	91.69	5.1	33.56	7.7	25.6	0.93
F05	17 Aug 2022	49	11.48	91.81	5.1	33.56	7.7	25.6	0.95
F05	17 Aug 2022	50	11.47	91.84	5.1	33.56	7.7	25.6	0.90
F05	17 Aug 2022	51	11.46	91.79	5.0	33.56	7.7	25.6	0.90
F05	17 Aug 2022	52	11.43	91.75	5.0	33.57	7.7	25.6	0.86
F05	17 Aug 2022	53	11.39	91.49	4.9	33.58	7.7	25.6	0.81
F05	17 Aug 2022	54	11.37	91.24	4.8	33.58	7.7	25.6	0.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F05	17 Aug 2022	55	11.37	91.35	4.8	33.58	7.7	25.6	0.74
F05	17 Aug 2022	56	11.33	91.23	4.8	33.58	7.7	25.6	0.74
F05	17 Aug 2022	57	11.29	91.07	4.7	33.59	7.7	25.6	0.70
F05	17 Aug 2022	58	11.27	90.95	4.7	33.59	7.6	25.6	0.69
F05	17 Aug 2022	59	11.21	90.85	4.7	33.60	7.6	25.6	0.70
F05	17 Aug 2022	60	11.21	90.59	4.6	33.60	7.6	25.6	0.62
F05	17 Aug 2022	61	11.20	90.40	4.6	33.60	7.6	25.6	0.60
F05	17 Aug 2022	62	11.20	90.33	4.6	33.60	7.6	25.6	0.59
F06	17 Aug 2022	1	23.07	83.36	8.0	33.57	8.1	22.8	0.74
F06	17 Aug 2022	2	22.69	85.18	7.9	33.57	8.1	22.9	0.79
F06	17 Aug 2022	3	21.54	85.39	7.5	33.53	8.1	23.2	0.85
F06	17 Aug 2022	4	18.75	85.26	8.1	33.48	8.0	23.9	0.87
F06	17 Aug 2022	5	18.12	86.12	7.9	33.46	8.0	24.1	0.89
F06	17 Aug 2022	6	15.40	87.24	8.1	33.44	8.0	24.7	0.88
F06	17 Aug 2022	7	15.06	86.36	7.6	33.43	8.0	24.7	1.18
F06	17 Aug 2022	8	14.30	85.41	7.2	33.42	7.9	24.9	1.55
F06	17 Aug 2022	9	13.67	86.18	7.1	33.42	7.9	25.0	1.59
F06	17 Aug 2022	10	13.47	86.67	7.0	33.42	7.9	25.1	1.64
F06	17 Aug 2022	11	13.36	86.83	7.0	33.42	7.9	25.1	1.68
F06	17 Aug 2022	12	13.27	87.13	7.0	33.44	7.9	25.1	1.83
F06	17 Aug 2022	13	13.11	87.51	7.0	33.44	7.9	25.2	1.96
F06	17 Aug 2022	14	13.01	87.92	6.9	33.45	7.9	25.2	1.98
F06	17 Aug 2022	15	12.84	88.34	6.8	33.45	7.9	25.2	2.14
F06	17 Aug 2022	16	12.57	89.09	6.6	33.46	7.8	25.3	1.92
F06	17 Aug 2022	17	12.42	89.92	6.4	33.47	7.8	25.3	1.70
F06	17 Aug 2022	18	12.41	90.43	6.3	33.48	7.8	25.3	1.78
F06	17 Aug 2022	19	12.37	90.49	6.2	33.48	7.8	25.3	1.50
F06	17 Aug 2022	20	12.36	90.56	6.2	33.48	7.8	25.3	1.53
F06	17 Aug 2022	21	12.36	90.66	6.2	33.48	7.8	25.3	1.53
F06	17 Aug 2022	22	12.31	90.93	6.2	33.48	7.8	25.4	1.65
F06	17 Aug 2022	23	12.30	91.05	6.2	33.49	7.8	25.4	1.53
F06	17 Aug 2022	24	12.30	90.87	6.1	33.49	7.8	25.4	1.41
F06	17 Aug 2022	25	12.27	90.85	6.0	33.49	7.8	25.4	1.50
F06	17 Aug 2022	26	12.24	90.97	5.9	33.50	7.8	25.4	1.43
F06	17 Aug 2022	27	12.19	91.11	5.8	33.50	7.8	25.4	1.42
F06	17 Aug 2022	28	12.03	91.21	5.7	33.51	7.8	25.4	1.33
F06	17 Aug 2022	29	12.00	91.38	5.6	33.51	7.7	25.4	1.28
F06	17 Aug 2022	30	11.91	91.55	5.5	33.52	7.7	25.5	1.26
F06	17 Aug 2022	31	11.87	91.55	5.4	33.52	7.7	25.5	1.26
F06	17 Aug 2022	32	11.85	91.62	5.3	33.52	7.7	25.5	1.14
F06	17 Aug 2022	33	11.79	91.54	5.3	33.52	7.7	25.5	1.19
F06	17 Aug 2022	34	11.78	91.33	5.4	33.53	7.7	25.5	1.17
F06	17 Aug 2022	35	11.77	91.62	5.4	33.53	7.7	25.5	1.15
F06	17 Aug 2022	36	11.74	91.61	5.4	33.53	7.7	25.5	1.16
F06	17 Aug 2022	37	11.73	91.63	5.4	33.53	7.7	25.5	1.15
F06	17 Aug 2022	38	11.72	91.61	5.3	33.53	7.7	25.5	1.17
F06	17 Aug 2022	39	11.71	91.60	5.3	33.53	7.7	25.5	1.17
F06	17 Aug 2022	40	11.69	91.65	5.3	33.54	7.7	25.5	1.27
F06	17 Aug 2022	41	11.65	91.45	5.3	33.54	7.7	25.5	1.13
F06	17 Aug 2022	42	11.64	91.73	5.2	33.54	7.7	25.5	1.15
F06	17 Aug 2022	43	11.62	91.81	5.2	33.54	7.7	25.5	1.07
F06	17 Aug 2022	44	11.61	91.70	5.2	33.54	7.7	25.5	1.08
F06	17 Aug 2022	45	11.55	91.78	5.1	33.55	7.7	25.5	1.01
F06	17 Aug 2022	46	11.52	91.81	5.1	33.55	7.7	25.6	1.01
F06	17 Aug 2022	47	11.47	91.81	5.0	33.56	7.7	25.6	0.94
F06	17 Aug 2022	48	11.43	91.71	5.0	33.57	7.7	25.6	0.93
F06	17 Aug 2022	49	11.43	91.33	4.9	33.57	7.7	25.6	0.89
F06	17 Aug 2022	50	11.35	91.27	4.8	33.58	7.7	25.6	0.86
F06	17 Aug 2022	51	11.28	91.37	4.8	33.59	7.7	25.6	0.81
F06	17 Aug 2022	52	11.25	91.36	4.7	33.59	7.6	25.6	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F06	17 Aug 2022	53	11.25	91.32	4.7	33.59	7.6	25.6	0.70
F06	17 Aug 2022	54	11.22	91.28	4.7	33.60	7.6	25.6	0.70
F06	17 Aug 2022	55	11.20	91.07	4.6	33.60	7.6	25.6	0.67
F06	17 Aug 2022	56	11.20	90.35	4.6	33.60	7.6	25.6	0.69
F06	17 Aug 2022	57	11.20	89.63	4.6	33.60	7.6	25.6	0.69
F06	17 Aug 2022	58	11.20	89.30	4.6	33.60	7.6	25.6	0.70
F06	17 Aug 2022	59	11.20	89.15	4.6	33.60	7.6	25.6	0.69
F06	17 Aug 2022	60	11.20	88.74	4.5	33.60	7.6	25.6	0.72
F06	17 Aug 2022	61	11.20	88.62	4.6	33.60	7.6	25.6	0.70
F07	17 Aug 2022	1	23.49	83.11	8.1	33.58	8.1	22.7	0.98
F07	17 Aug 2022	2	23.56	82.98	7.8	33.57	8.1	22.7	0.99
F07	17 Aug 2022	3	22.14	83.80	7.7	33.52	8.1	23.1	0.84
F07	17 Aug 2022	4	19.84	85.46	7.8	33.46	8.0	23.6	0.73
F07	17 Aug 2022	5	17.06	86.53	8.5	33.44	8.0	24.3	0.63
F07	17 Aug 2022	6	16.54	87.36	8.4	33.42	8.0	24.4	0.63
F07	17 Aug 2022	7	15.67	86.73	8.3	33.40	8.0	24.6	0.74
F07	17 Aug 2022	8	15.40	87.09	8.3	33.41	8.0	24.7	0.86
F07	17 Aug 2022	9	14.92	87.33	8.1	33.40	8.0	24.8	0.90
F07	17 Aug 2022	10	14.49	87.11	7.9	33.41	7.9	24.9	1.05
F07	17 Aug 2022	11	14.31	86.98	7.8	33.41	7.9	24.9	1.22
F07	17 Aug 2022	12	13.76	86.34	7.9	33.41	7.9	25.0	1.53
F07	17 Aug 2022	13	13.63	85.79	7.9	33.42	7.9	25.0	1.87
F07	17 Aug 2022	14	13.63	85.86	7.7	33.43	7.9	25.0	2.08
F07	17 Aug 2022	15	13.45	86.34	7.2	33.43	7.9	25.1	2.16
F07	17 Aug 2022	16	13.24	87.46	6.9	33.46	7.9	25.1	2.33
F07	17 Aug 2022	17	12.99	88.21	6.5	33.46	7.8	25.2	2.24
F07	17 Aug 2022	18	12.83	88.26	6.3	33.47	7.8	25.2	2.38
F07	17 Aug 2022	19	12.72	88.10	6.1	33.47	7.8	25.3	2.42
F07	17 Aug 2022	20	12.59	88.27	5.9	33.48	7.8	25.3	2.28
F07	17 Aug 2022	21	12.54	88.83	5.8	33.48	7.8	25.3	1.96
F07	17 Aug 2022	22	12.54	88.97	5.8	33.48	7.8	25.3	1.88
F07	17 Aug 2022	23	12.51	88.97	5.7	33.48	7.8	25.3	2.03
F07	17 Aug 2022	24	12.51	89.25	5.7	33.49	7.8	25.3	2.02
F07	17 Aug 2022	25	12.35	89.49	5.6	33.49	7.8	25.4	1.89
F07	17 Aug 2022	26	12.27	90.01	5.5	33.50	7.7	25.4	1.54
F07	17 Aug 2022	27	12.24	90.32	5.5	33.50	7.7	25.4	1.50
F07	17 Aug 2022	28	12.19	90.67	5.5	33.50	7.7	25.4	1.49
F07	17 Aug 2022	29	12.14	91.04	5.5	33.50	7.8	25.4	1.18
F07	17 Aug 2022	30	11.90	91.32	5.4	33.52	7.7	25.5	1.14
F07	17 Aug 2022	31	11.66	91.75	5.2	33.53	7.7	25.5	1.01
F07	17 Aug 2022	32	11.62	91.91	5.2	33.54	7.7	25.5	0.93
F07	17 Aug 2022	33	11.61	91.94	5.2	33.54	7.7	25.5	0.90
F07	17 Aug 2022	34	11.56	91.97	5.2	33.54	7.7	25.5	0.88
F07	17 Aug 2022	35	11.51	92.01	5.1	33.55	7.7	25.6	0.90
F07	17 Aug 2022	36	11.49	91.90	5.1	33.55	7.7	25.6	0.86
F07	17 Aug 2022	37	11.46	92.11	5.1	33.55	7.7	25.6	0.83
F07	17 Aug 2022	38	11.43	92.05	5.0	33.56	7.7	25.6	0.80
F07	17 Aug 2022	39	11.42	91.95	5.0	33.56	7.7	25.6	0.89
F07	17 Aug 2022	40	11.40	91.71	5.0	33.56	7.7	25.6	0.88
F07	17 Aug 2022	41	11.38	91.72	4.9	33.57	7.7	25.6	0.93
F07	17 Aug 2022	42	11.37	91.40	4.9	33.57	7.7	25.6	0.85
F07	17 Aug 2022	43	11.37	91.35	4.9	33.57	7.7	25.6	0.76
F07	17 Aug 2022	44	11.37	91.09	4.8	33.57	7.7	25.6	0.73
F07	17 Aug 2022	45	11.36	90.83	4.8	33.57	7.7	25.6	0.75
F07	17 Aug 2022	46	11.37	91.02	4.8	33.57	7.7	25.6	0.75
F07	17 Aug 2022	47	11.35	90.80	4.8	33.57	7.7	25.6	0.76
F07	17 Aug 2022	48	11.33	90.36	4.7	33.58	7.6	25.6	0.74
F07	17 Aug 2022	49	11.30	89.75	4.7	33.58	7.6	25.6	0.73
F07	17 Aug 2022	50	11.26	89.17	4.6	33.59	7.6	25.6	0.76
F07	17 Aug 2022	51	11.25	88.74	4.6	33.59	7.6	25.6	0.68

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F07	17 Aug 2022	52	11.18	88.19	4.6	33.60	7.6	25.7	0.64
F07	17 Aug 2022	53	11.14	87.58	4.5	33.60	7.6	25.7	0.63
F07	17 Aug 2022	54	11.13	87.07	4.5	33.60	7.6	25.7	0.64
F07	17 Aug 2022	55	11.10	86.90	4.5	33.61	7.6	25.7	0.63
F07	17 Aug 2022	56	11.09	86.54	4.5	33.61	7.6	25.7	0.61
F07	17 Aug 2022	57	11.09	86.50	4.5	33.61	7.6	25.7	0.64
F07	17 Aug 2022	58	11.08	86.50	4.5	33.61	7.6	25.7	0.62
F07	17 Aug 2022	59	11.08	86.11	4.5	33.61	7.6	25.7	0.60
F07	17 Aug 2022	60	11.09	86.41	4.5	33.61	7.6	25.7	0.63
F07	17 Aug 2022	61	11.10	86.05	4.5	33.61	7.6	25.7	0.63
F07	17 Aug 2022	62	11.10	86.11	4.5	33.61	7.6	25.7	0.64
F07	17 Aug 2022	63	11.10	86.21	4.5	33.61	7.6	25.7	0.69
F07	17 Aug 2022	64	11.10	86.13	4.5	33.61	7.6	25.7	0.67
F08	17 Aug 2022	1	23.18	84.73	8.2	33.58	8.1	22.8	0.66
F08	17 Aug 2022	2	22.76	84.70	7.7	33.55	8.1	22.9	0.67
F08	17 Aug 2022	3	19.61	85.35	8.0	33.52	8.1	23.7	0.65
F08	17 Aug 2022	4	17.99	86.38	8.4	33.47	8.1	24.1	0.55
F08	17 Aug 2022	5	16.28	87.70	8.9	33.43	8.0	24.5	0.47
F08	17 Aug 2022	6	15.68	89.19	8.8	33.41	8.0	24.6	0.46
F08	17 Aug 2022	7	15.40	88.85	8.6	33.42	8.0	24.7	0.58
F08	17 Aug 2022	8	15.33	88.23	8.3	33.42	8.0	24.7	0.73
F08	17 Aug 2022	9	14.90	87.71	8.0	33.43	8.0	24.8	0.91
F08	17 Aug 2022	10	14.92	87.47	7.8	33.44	8.0	24.8	1.05
F08	17 Aug 2022	11	14.22	87.77	7.4	33.45	7.9	24.9	1.20
F08	17 Aug 2022	12	14.10	87.70	7.3	33.45	7.9	25.0	1.43
F08	17 Aug 2022	13	13.74	88.02	7.3	33.45	7.9	25.0	1.46
F08	17 Aug 2022	14	13.62	87.80	7.3	33.45	7.9	25.1	1.68
F08	17 Aug 2022	15	13.30	87.16	7.2	33.46	7.9	25.1	2.12
F08	17 Aug 2022	16	13.10	86.61	7.0	33.47	7.9	25.2	2.59
F08	17 Aug 2022	17	12.86	87.84	6.8	33.47	7.9	25.2	2.57
F08	17 Aug 2022	18	12.73	88.83	6.7	33.47	7.8	25.3	2.24
F08	17 Aug 2022	19	12.68	89.53	6.5	33.48	7.8	25.3	1.91
F08	17 Aug 2022	20	12.65	89.62	6.3	33.48	7.8	25.3	1.88
F08	17 Aug 2022	21	12.57	89.56	6.1	33.49	7.8	25.3	1.97
F08	17 Aug 2022	22	12.55	89.88	6.0	33.49	7.8	25.3	1.97
F08	17 Aug 2022	23	12.43	89.89	5.7	33.50	7.8	25.3	1.69
F08	17 Aug 2022	24	12.37	90.22	5.6	33.50	7.8	25.4	1.46
F08	17 Aug 2022	25	12.31	90.34	5.5	33.50	7.7	25.4	1.39
F08	17 Aug 2022	26	12.30	90.38	5.4	33.50	7.7	25.4	1.40
F08	17 Aug 2022	27	12.22	90.27	5.4	33.51	7.7	25.4	1.29
F08	17 Aug 2022	28	12.22	90.51	5.4	33.50	7.7	25.4	1.23
F08	17 Aug 2022	29	12.17	90.73	5.5	33.51	7.7	25.4	1.24
F08	17 Aug 2022	30	12.11	91.02	5.4	33.50	7.7	25.4	1.15
F08	17 Aug 2022	31	12.02	91.11	5.3	33.51	7.7	25.4	1.12
F08	17 Aug 2022	32	12.03	91.05	5.2	33.51	7.7	25.4	1.09
F08	17 Aug 2022	33	11.93	90.77	5.2	33.52	7.7	25.5	0.99
F08	17 Aug 2022	34	11.93	91.15	5.1	33.52	7.7	25.5	1.00
F08	17 Aug 2022	35	11.89	91.07	5.1	33.52	7.7	25.5	0.94
F08	17 Aug 2022	36	11.89	91.06	5.1	33.52	7.7	25.5	1.09
F08	17 Aug 2022	37	11.88	91.01	5.1	33.52	7.7	25.5	1.16
F08	17 Aug 2022	38	11.87	90.94	5.0	33.52	7.7	25.5	1.05
F08	17 Aug 2022	39	11.83	90.78	5.0	33.52	7.7	25.5	1.00
F08	17 Aug 2022	40	11.82	91.13	5.0	33.52	7.7	25.5	0.93
F08	17 Aug 2022	41	11.79	91.12	5.0	33.52	7.7	25.5	0.89
F08	17 Aug 2022	42	11.79	91.23	4.9	33.52	7.7	25.5	0.81
F08	17 Aug 2022	43	11.76	91.13	4.9	33.53	7.7	25.5	0.86
F08	17 Aug 2022	44	11.75	91.31	4.9	33.53	7.7	25.5	0.91
F08	17 Aug 2022	45	11.74	91.01	4.9	33.53	7.7	25.5	0.81
F08	17 Aug 2022	46	11.74	90.85	4.9	33.53	7.7	25.5	0.83
F08	17 Aug 2022	47	11.74	90.69	4.9	33.53	7.7	25.5	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F08	17 Aug 2022	48	11.73	90.82	4.9	33.53	7.7	25.5	0.81
F08	17 Aug 2022	49	11.71	90.97	4.9	33.53	7.7	25.5	0.85
F08	17 Aug 2022	50	11.71	91.01	4.9	33.53	7.7	25.5	0.90
F08	17 Aug 2022	51	11.71	91.07	4.9	33.53	7.7	25.5	0.90
F08	17 Aug 2022	52	11.71	91.06	4.9	33.53	7.7	25.5	0.81
F08	17 Aug 2022	53	11.69	90.98	4.8	33.53	7.7	25.5	0.86
F08	17 Aug 2022	54	11.64	90.30	4.8	33.54	7.6	25.5	0.80
F08	17 Aug 2022	55	11.54	89.60	4.7	33.55	7.6	25.5	0.80
F08	17 Aug 2022	56	11.44	88.70	4.6	33.56	7.6	25.6	0.71
F08	17 Aug 2022	57	11.39	87.35	4.5	33.57	7.6	25.6	0.69
F08	17 Aug 2022	58	11.27	86.29	4.5	33.58	7.6	25.6	0.63
F08	17 Aug 2022	59	11.25	86.08	4.4	33.58	7.6	25.6	0.59
F08	17 Aug 2022	60	11.23	85.94	4.4	33.59	7.6	25.6	0.59
F08	17 Aug 2022	61	11.22	85.88	4.4	33.59	7.6	25.6	0.56
F08	17 Aug 2022	62	11.20	85.63	4.4	33.59	7.6	25.6	0.58
F09	17 Aug 2022	1	23.24	86.01	7.8	33.58	8.1	22.8	0.76
F09	17 Aug 2022	2	22.64	85.65	7.8	33.52	8.1	22.9	0.70
F09	17 Aug 2022	3	21.23	84.87	7.9	33.48	8.1	23.3	0.65
F09	17 Aug 2022	4	19.66	85.29	8.0	33.48	8.1	23.7	0.59
F09	17 Aug 2022	5	17.87	86.04	8.2	33.39	8.0	24.1	0.57
F09	17 Aug 2022	6	16.12	86.67	8.6	33.41	8.0	24.5	0.50
F09	17 Aug 2022	7	15.52	88.05	9.0	33.39	8.0	24.6	0.48
F09	17 Aug 2022	8	15.21	89.17	9.1	33.39	8.0	24.7	0.48
F09	17 Aug 2022	9	15.06	89.52	8.9	33.39	8.0	24.7	0.52
F09	17 Aug 2022	10	14.81	89.11	8.5	33.38	8.0	24.8	0.63
F09	17 Aug 2022	11	14.47	88.48	8.0	33.41	8.0	24.9	0.88
F09	17 Aug 2022	12	14.40	87.61	7.6	33.43	7.9	24.9	1.08
F09	17 Aug 2022	13	14.25	87.81	7.3	33.42	7.9	24.9	1.24
F09	17 Aug 2022	14	13.84	88.10	7.1	33.43	7.9	25.0	1.30
F09	17 Aug 2022	15	13.75	88.33	7.0	33.45	7.9	25.0	1.49
F09	17 Aug 2022	16	13.72	88.67	6.9	33.45	7.9	25.0	1.47
F09	17 Aug 2022	17	13.34	88.74	6.8	33.44	7.9	25.1	1.64
F09	17 Aug 2022	18	13.16	88.61	6.8	33.46	7.9	25.2	1.93
F09	17 Aug 2022	19	13.14	88.77	6.8	33.46	7.9	25.2	2.05
F09	17 Aug 2022	20	13.02	88.83	6.7	33.46	7.9	25.2	2.15
F09	17 Aug 2022	21	12.80	88.92	6.7	33.46	7.8	25.2	2.17
F09	17 Aug 2022	22	12.64	89.37	6.7	33.46	7.8	25.3	2.18
F09	17 Aug 2022	23	12.60	89.90	6.7	33.46	7.8	25.3	2.15
F09	17 Aug 2022	24	12.56	90.12	6.6	33.47	7.8	25.3	2.10
F09	17 Aug 2022	25	12.53	89.98	6.6	33.47	7.8	25.3	2.24
F09	17 Aug 2022	26	12.52	90.40	6.5	33.47	7.8	25.3	2.06
F09	17 Aug 2022	27	12.47	90.43	6.4	33.48	7.8	25.3	1.58
F09	17 Aug 2022	28	12.43	90.90	6.3	33.48	7.8	25.3	1.39
F09	17 Aug 2022	29	12.36	91.16	6.2	33.49	7.8	25.3	1.30
F09	17 Aug 2022	30	12.28	91.31	6.0	33.49	7.8	25.4	1.19
F09	17 Aug 2022	31	12.25	91.27	5.8	33.49	7.8	25.4	1.36
F09	17 Aug 2022	32	12.24	90.88	5.6	33.50	7.8	25.4	1.39
F09	17 Aug 2022	33	12.22	90.60	5.5	33.50	7.7	25.4	1.39
F09	17 Aug 2022	34	12.21	90.12	5.4	33.51	7.7	25.4	1.48
F09	17 Aug 2022	35	12.17	90.33	5.3	33.51	7.7	25.4	1.25
F09	17 Aug 2022	36	12.09	90.35	5.2	33.51	7.7	25.4	1.19
F09	17 Aug 2022	37	12.06	90.02	5.2	33.51	7.7	25.4	1.23
F09	17 Aug 2022	38	12.04	90.65	5.2	33.51	7.7	25.4	1.12
F09	17 Aug 2022	39	12.00	90.75	5.2	33.51	7.7	25.4	1.12
F09	17 Aug 2022	40	11.99	90.86	5.1	33.52	7.7	25.4	1.04
F09	17 Aug 2022	41	11.99	90.64	5.0	33.52	7.7	25.4	1.12
F09	17 Aug 2022	42	11.98	90.33	5.0	33.52	7.7	25.4	1.08
F09	17 Aug 2022	43	11.96	90.21	5.0	33.52	7.7	25.4	1.06
F09	17 Aug 2022	44	11.94	90.31	5.0	33.52	7.7	25.5	0.91
F09	17 Aug 2022	45	11.92	90.37	5.0	33.52	7.7	25.5	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
F09	17 Aug 2022	46	11.89	90.32	4.9	33.52	7.7	25.5	0.99
F09	17 Aug 2022	47	11.88	90.42	4.9	33.52	7.7	25.5	1.01
F09	17 Aug 2022	48	11.86	90.34	4.9	33.52	7.7	25.5	1.06
F09	17 Aug 2022	49	11.85	90.60	4.9	33.53	7.7	25.5	0.97
F09	17 Aug 2022	50	11.81	90.46	4.9	33.53	7.7	25.5	1.04
F09	17 Aug 2022	51	11.67	90.18	4.8	33.54	7.7	25.5	0.87
F09	17 Aug 2022	52	11.61	90.20	4.7	33.54	7.7	25.5	0.75
F09	17 Aug 2022	53	11.51	90.12	4.7	33.55	7.7	25.6	0.67
F09	17 Aug 2022	54	11.45	90.10	4.7	33.56	7.6	25.6	0.64
F09	17 Aug 2022	55	11.42	90.30	4.7	33.56	7.6	25.6	0.64
F09	17 Aug 2022	56	11.36	90.19	4.6	33.57	7.6	25.6	0.64
F09	17 Aug 2022	57	11.38	90.03	4.6	33.57	7.6	25.6	0.62
F09	17 Aug 2022	58	11.29	89.84	4.5	33.58	7.6	25.6	0.60
F09	17 Aug 2022	59	11.28	88.09	4.5	33.58	7.6	25.6	0.58
F09	17 Aug 2022	60	11.26	87.25	4.5	33.58	7.6	25.6	0.58
F09	17 Aug 2022	61	11.19	86.77	4.5	33.59	7.6	25.6	0.58
F09	17 Aug 2022	62	11.17	86.02	4.4	33.60	7.6	25.7	0.58
F09	17 Aug 2022	63	11.17	85.50	4.4	33.60	7.6	25.7	0.57
F10	17 Aug 2022	1	23.45	84.53	7.6	33.58	8.1	22.7	1.02
F10	17 Aug 2022	2	23.34	84.54	7.4	33.56	8.1	22.7	1.00
F10	17 Aug 2022	3	20.96	85.06	7.7	33.52	8.1	23.4	0.92
F10	17 Aug 2022	4	18.42	85.30	8.1	33.45	8.0	24.0	0.73
F10	17 Aug 2022	5	16.84	86.55	8.6	33.43	8.0	24.3	0.60
F10	17 Aug 2022	6	16.28	87.62	8.9	33.42	8.0	24.5	0.54
F10	17 Aug 2022	7	15.95	88.58	9.0	33.41	8.0	24.5	0.51
F10	17 Aug 2022	8	15.81	89.26	8.9	33.41	8.0	24.6	0.52
F10	17 Aug 2022	9	15.33	89.53	9.0	33.40	8.0	24.7	0.53
F10	17 Aug 2022	10	15.17	89.67	9.1	33.41	8.0	24.7	0.55
F10	17 Aug 2022	11	15.00	89.60	9.0	33.41	8.0	24.7	0.59
F10	17 Aug 2022	12	14.75	89.50	8.8	33.42	8.0	24.8	0.63
F10	17 Aug 2022	13	14.57	89.36	8.7	33.42	8.0	24.8	0.67
F10	17 Aug 2022	14	14.53	89.16	8.7	33.43	8.0	24.9	0.71
F10	17 Aug 2022	15	14.30	89.23	8.6	33.42	8.0	24.9	0.79
F10	17 Aug 2022	16	14.16	88.66	8.6	33.43	8.0	24.9	0.90
F10	17 Aug 2022	17	14.15	87.79	8.6	33.44	8.0	24.9	1.05
F10	17 Aug 2022	18	14.05	87.70	8.5	33.44	8.0	25.0	1.33
F10	17 Aug 2022	19	13.88	85.87	8.1	33.45	8.0	25.0	2.12
F10	17 Aug 2022	20	13.28	86.25	7.1	33.47	7.9	25.2	2.43
F10	17 Aug 2022	21	13.03	88.07	6.7	33.48	7.8	25.2	2.58
F10	17 Aug 2022	22	12.96	87.95	6.5	33.48	7.8	25.2	2.54
F10	17 Aug 2022	23	12.90	88.50	6.3	33.48	7.8	25.2	2.13
F10	17 Aug 2022	24	12.82	89.14	6.3	33.48	7.8	25.3	2.04
F10	17 Aug 2022	25	12.75	89.50	6.3	33.48	7.8	25.3	1.98
F10	17 Aug 2022	26	12.62	89.70	6.4	33.48	7.8	25.3	2.12
F10	17 Aug 2022	27	12.59	90.21	6.5	33.48	7.8	25.3	2.04
F10	17 Aug 2022	28	12.49	90.61	6.4	33.48	7.8	25.3	1.70
F10	17 Aug 2022	29	12.35	90.91	6.2	33.48	7.8	25.3	1.47
F10	17 Aug 2022	30	12.30	91.11	6.0	33.49	7.8	25.4	1.31
F10	17 Aug 2022	31	12.29	91.13	5.8	33.49	7.8	25.4	1.53
F10	17 Aug 2022	32	12.29	90.83	5.6	33.50	7.8	25.4	1.74
F10	17 Aug 2022	33	12.28	90.70	5.6	33.50	7.7	25.4	1.58
F10	17 Aug 2022	34	12.26	90.76	5.5	33.50	7.7	25.4	1.49
F10	17 Aug 2022	35	12.23	90.76	5.5	33.50	7.7	25.4	1.33
F10	17 Aug 2022	36	12.23	90.64	5.5	33.50	7.7	25.4	1.35
F10	17 Aug 2022	37	12.19	90.68	5.5	33.50	7.7	25.4	1.44
F10	17 Aug 2022	38	12.11	90.92	5.4	33.50	7.7	25.4	1.20
F10	17 Aug 2022	39	12.02	91.19	5.3	33.51	7.7	25.4	1.40
F10	17 Aug 2022	40	11.99	91.20	5.2	33.51	7.7	25.4	1.25
F10	17 Aug 2022	41	11.97	91.22	5.2	33.51	7.7	25.4	1.00
F10	17 Aug 2022	42	11.97	91.19	5.2	33.51	7.7	25.4	0.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F10	17 Aug 2022	43	11.97	91.04	5.1	33.51	7.7	25.4	1.03
F10	17 Aug 2022	44	11.97	90.91	5.1	33.52	7.7	25.4	0.90
F10	17 Aug 2022	45	11.96	90.85	5.1	33.52	7.7	25.4	0.95
F10	17 Aug 2022	46	11.97	90.79	5.0	33.52	7.7	25.4	0.96
F10	17 Aug 2022	47	11.92	90.75	5.0	33.52	7.7	25.5	0.86
F10	17 Aug 2022	48	11.87	90.67	5.0	33.52	7.7	25.5	0.91
F10	17 Aug 2022	49	11.84	90.53	4.9	33.53	7.7	25.5	0.93
F10	17 Aug 2022	50	11.83	90.23	4.9	33.53	7.7	25.5	0.91
F10	17 Aug 2022	51	11.79	89.62	4.8	33.53	7.7	25.5	0.92
F10	17 Aug 2022	52	11.75	89.91	4.8	33.53	7.7	25.5	0.86
F10	17 Aug 2022	53	11.72	89.68	4.7	33.53	7.7	25.5	0.78
F10	17 Aug 2022	54	11.62	89.27	4.6	33.54	7.6	25.5	0.80
F10	17 Aug 2022	55	11.57	88.46	4.6	33.55	7.6	25.5	0.76
F10	17 Aug 2022	56	11.58	88.50	4.6	33.55	7.6	25.5	0.73
F10	17 Aug 2022	57	11.52	88.69	4.6	33.55	7.6	25.6	0.75
F10	17 Aug 2022	58	11.46	88.56	4.5	33.56	7.6	25.6	0.71
F10	17 Aug 2022	59	11.41	87.54	4.5	33.57	7.6	25.6	0.66
F10	17 Aug 2022	60	11.34	87.70	4.5	33.58	7.6	25.6	0.64
F10	17 Aug 2022	61	11.32	87.91	4.5	33.58	7.6	25.6	0.61
F10	17 Aug 2022	62	11.26	87.87	4.5	33.59	7.6	25.6	0.60
F11	17 Aug 2022	1	23.36	84.19	7.8	33.58	8.1	22.8	1.14
F11	17 Aug 2022	2	23.21	84.28	7.7	33.57	8.1	22.8	1.16
F11	17 Aug 2022	3	21.71	84.69	7.8	33.52	8.1	23.2	1.10
F11	17 Aug 2022	4	19.26	85.10	8.2	33.47	8.0	23.8	0.91
F11	17 Aug 2022	5	17.45	86.24	8.5	33.44	8.0	24.2	0.70
F11	17 Aug 2022	6	16.13	87.90	8.6	33.40	8.0	24.5	0.63
F11	17 Aug 2022	7	15.29	88.86	8.7	33.40	8.0	24.7	0.60
F11	17 Aug 2022	8	15.03	89.46	8.8	33.40	8.0	24.7	0.60
F11	17 Aug 2022	9	14.93	89.44	8.8	33.40	8.0	24.8	0.64
F11	17 Aug 2022	10	14.79	89.41	8.7	33.40	8.0	24.8	0.71
F11	17 Aug 2022	11	14.69	89.31	8.8	33.41	8.0	24.8	0.77
F11	17 Aug 2022	12	14.41	89.15	8.7	33.41	8.0	24.9	0.82
F11	17 Aug 2022	13	14.10	88.83	8.5	33.42	8.0	24.9	0.89
F11	17 Aug 2022	14	13.93	88.31	8.4	33.43	8.0	25.0	1.10
F11	17 Aug 2022	15	13.76	87.44	8.4	33.43	8.0	25.0	1.51
F11	17 Aug 2022	16	13.70	86.32	8.5	33.44	8.0	25.0	1.79
F11	17 Aug 2022	17	13.71	85.72	8.5	33.44	8.0	25.0	1.95
F11	17 Aug 2022	18	13.63	85.25	8.4	33.45	8.0	25.1	2.29
F11	17 Aug 2022	19	13.57	84.38	8.3	33.45	8.0	25.1	2.87
F11	17 Aug 2022	20	13.24	82.10	8.2	33.45	8.0	25.1	4.43
F11	17 Aug 2022	21	13.11	80.70	8.1	33.45	7.9	25.2	6.24
F11	17 Aug 2022	22	13.08	79.67	7.9	33.46	7.9	25.2	7.78
F11	17 Aug 2022	23	12.88	79.75	7.6	33.46	7.9	25.2	8.37
F11	17 Aug 2022	24	12.72	80.62	6.9	33.48	7.8	25.3	8.36
F11	17 Aug 2022	25	12.62	87.37	6.3	33.49	7.8	25.3	5.43
F11	17 Aug 2022	26	12.44	89.27	6.1	33.49	7.8	25.3	3.09
F11	17 Aug 2022	27	12.40	90.29	6.0	33.49	7.8	25.3	2.04
F11	17 Aug 2022	28	12.42	90.78	6.0	33.49	7.8	25.3	1.62
F11	17 Aug 2022	29	12.37	90.84	5.9	33.49	7.8	25.3	1.51
F11	17 Aug 2022	30	12.36	91.05	5.8	33.49	7.8	25.4	1.36
F11	17 Aug 2022	31	12.23	91.18	5.7	33.50	7.8	25.4	1.21
F11	17 Aug 2022	32	12.16	91.36	5.7	33.50	7.7	25.4	1.15
F11	17 Aug 2022	33	12.12	91.64	5.7	33.50	7.7	25.4	1.15
F11	17 Aug 2022	34	12.01	91.77	5.7	33.50	7.7	25.4	0.99
F11	17 Aug 2022	35	11.98	91.96	5.6	33.50	7.7	25.4	0.94
F11	17 Aug 2022	36	11.93	91.93	5.5	33.51	7.7	25.4	0.88
F11	17 Aug 2022	37	11.89	91.91	5.5	33.51	7.7	25.5	0.87
F11	17 Aug 2022	38	11.88	91.84	5.5	33.51	7.7	25.5	0.90
F11	17 Aug 2022	39	11.86	91.78	5.5	33.51	7.7	25.5	0.90
F11	17 Aug 2022	40	11.80	91.95	5.4	33.52	7.7	25.5	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F11	17 Aug 2022	41	11.77	92.09	5.4	33.52	7.7	25.5	0.84
F11	17 Aug 2022	42	11.74	92.12	5.4	33.52	7.7	25.5	0.82
F11	17 Aug 2022	43	11.73	92.13	5.3	33.52	7.7	25.5	0.84
F11	17 Aug 2022	44	11.72	92.17	5.3	33.52	7.7	25.5	0.88
F11	17 Aug 2022	45	11.71	92.12	5.2	33.53	7.7	25.5	0.92
F11	17 Aug 2022	46	11.70	91.92	5.1	33.53	7.7	25.5	0.79
F11	17 Aug 2022	47	11.69	91.78	5.0	33.53	7.7	25.5	0.85
F11	17 Aug 2022	48	11.68	91.73	5.0	33.53	7.7	25.5	0.73
F11	17 Aug 2022	49	11.61	91.77	4.8	33.54	7.7	25.5	0.70
F11	17 Aug 2022	50	11.60	91.69	4.8	33.54	7.6	25.5	0.65
F11	17 Aug 2022	51	11.56	91.63	4.8	33.54	7.6	25.5	0.61
F11	17 Aug 2022	52	11.54	91.74	4.7	33.55	7.6	25.5	0.57
F11	17 Aug 2022	53	11.52	91.69	4.7	33.55	7.6	25.6	0.55
F11	17 Aug 2022	54	11.49	91.22	4.6	33.55	7.6	25.6	0.57
F11	17 Aug 2022	55	11.46	90.83	4.5	33.56	7.6	25.6	0.53
F11	17 Aug 2022	56	11.41	90.25	4.5	33.56	7.6	25.6	0.61
F11	17 Aug 2022	57	11.39	88.36	4.4	33.57	7.6	25.6	0.57
F11	17 Aug 2022	58	11.39	87.26	4.3	33.57	7.6	25.6	0.54
F11	17 Aug 2022	59	11.37	86.97	4.3	33.57	7.6	25.6	0.55
F11	17 Aug 2022	60	11.33	86.28	4.3	33.58	7.6	25.6	0.55
F12	17 Aug 2022	1	23.28	85.91	7.8	33.58	8.0	22.8	0.82
F12	17 Aug 2022	2	23.24	84.76	7.8	33.58	8.0	22.8	0.84
F12	17 Aug 2022	3	23.17	85.80	7.8	33.58	8.1	22.8	0.89
F12	17 Aug 2022	4	22.61	86.10	7.9	33.55	8.0	22.9	0.89
F12	17 Aug 2022	5	21.55	85.81	8.1	33.53	8.0	23.2	0.99
F12	17 Aug 2022	6	20.49	85.19	8.0	33.48	8.0	23.5	0.94
F12	17 Aug 2022	7	17.97	85.54	8.4	33.45	8.0	24.1	0.80
F12	17 Aug 2022	8	16.90	86.48	8.7	33.43	8.0	24.3	0.67
F12	17 Aug 2022	9	16.29	88.09	8.9	33.42	8.0	24.5	0.62
F12	17 Aug 2022	10	16.11	88.84	8.6	33.40	8.0	24.5	0.62
F12	17 Aug 2022	11	14.86	89.05	8.6	33.39	8.0	24.8	0.63
F12	17 Aug 2022	12	14.31	88.94	8.7	33.40	8.0	24.9	0.73
F12	17 Aug 2022	13	14.23	88.69	8.8	33.40	8.0	24.9	0.83
F12	17 Aug 2022	14	14.00	88.29	8.8	33.40	8.0	25.0	1.01
F12	17 Aug 2022	15	13.88	87.91	8.6	33.40	8.0	25.0	1.15
F12	17 Aug 2022	16	13.79	87.77	8.5	33.41	8.0	25.0	1.31
F12	17 Aug 2022	17	13.78	87.66	8.4	33.42	8.0	25.0	1.48
F12	17 Aug 2022	18	13.70	87.42	8.3	33.42	8.0	25.0	1.53
F12	17 Aug 2022	19	13.63	87.35	8.2	33.43	7.9	25.1	1.84
F12	17 Aug 2022	20	13.60	86.36	8.1	33.44	7.9	25.1	2.54
F12	17 Aug 2022	21	13.19	83.34	8.0	33.45	7.9	25.2	4.61
F12	17 Aug 2022	22	12.94	81.19	7.8	33.45	7.9	25.2	7.91
F12	17 Aug 2022	23	12.74	81.24	7.6	33.45	7.9	25.2	9.62
F12	17 Aug 2022	24	12.67	81.83	7.4	33.44	7.9	25.3	9.33
F12	17 Aug 2022	25	12.48	83.66	7.3	33.44	7.9	25.3	8.01
F12	17 Aug 2022	26	12.48	84.53	7.2	33.45	7.9	25.3	8.23
F12	17 Aug 2022	27	12.46	83.80	7.1	33.46	7.9	25.3	8.22
F12	17 Aug 2022	28	12.32	83.24	6.8	33.46	7.8	25.3	7.54
F12	17 Aug 2022	29	12.26	85.60	6.7	33.47	7.8	25.4	5.93
F12	17 Aug 2022	30	12.22	86.90	6.5	33.48	7.8	25.4	4.90
F12	17 Aug 2022	31	12.11	87.98	6.2	33.50	7.8	25.4	3.66
F12	17 Aug 2022	32	12.15	89.97	6.1	33.49	7.8	25.4	2.71
F12	17 Aug 2022	33	12.00	90.88	5.8	33.50	7.8	25.4	2.11
F12	17 Aug 2022	34	11.94	91.25	5.6	33.51	7.7	25.4	1.56
F12	17 Aug 2022	35	11.94	91.75	5.4	33.51	7.7	25.4	1.23
F12	17 Aug 2022	36	11.93	91.96	5.4	33.51	7.7	25.4	0.93
F12	17 Aug 2022	37	11.88	91.98	5.2	33.52	7.7	25.5	0.82
F12	17 Aug 2022	38	11.86	91.85	5.1	33.52	7.7	25.5	0.79
F12	17 Aug 2022	39	11.83	91.67	5.0	33.52	7.7	25.5	0.78
F12	17 Aug 2022	40	11.70	91.88	4.9	33.53	7.7	25.5	0.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F12	17 Aug 2022	41	11.69	91.99	4.9	33.53	7.7	25.5	0.65
F12	17 Aug 2022	42	11.68	92.03	4.9	33.53	7.7	25.5	0.65
F12	17 Aug 2022	43	11.66	91.94	4.8	33.53	7.7	25.5	0.65
F12	17 Aug 2022	44	11.64	91.71	4.8	33.54	7.7	25.5	0.60
F12	17 Aug 2022	45	11.61	91.96	4.8	33.54	7.6	25.5	0.57
F12	17 Aug 2022	46	11.60	91.94	4.8	33.54	7.6	25.5	0.56
F12	17 Aug 2022	47	11.55	91.68	4.7	33.55	7.6	25.5	0.57
F12	17 Aug 2022	48	11.53	91.68	4.6	33.55	7.6	25.5	0.55
F12	17 Aug 2022	49	11.51	91.72	4.6	33.55	7.6	25.6	0.52
F12	17 Aug 2022	50	11.46	90.69	4.5	33.56	7.6	25.6	0.49
F12	17 Aug 2022	51	11.43	90.17	4.5	33.56	7.6	25.6	0.47
F12	17 Aug 2022	52	11.41	90.57	4.4	33.56	7.6	25.6	0.47
F12	17 Aug 2022	53	11.39	89.77	4.4	33.57	7.6	25.6	0.50
F12	17 Aug 2022	54	11.37	89.35	4.4	33.57	7.6	25.6	0.52
F12	17 Aug 2022	55	11.35	88.62	4.4	33.57	7.6	25.6	0.52
F12	17 Aug 2022	56	11.31	89.04	4.4	33.58	7.6	25.6	0.49
F12	17 Aug 2022	57	11.30	89.33	4.4	33.58	7.6	25.6	0.46
F12	17 Aug 2022	58	11.29	88.59	4.4	33.58	7.6	25.6	0.48
F12	17 Aug 2022	59	11.29	88.11	4.4	33.58	7.6	25.6	0.53
F12	17 Aug 2022	60	11.24	87.66	4.3	33.58	7.6	25.6	0.50
F12	17 Aug 2022	61	11.19	86.88	4.3	33.59	7.6	25.6	0.48
F13	17 Aug 2022	1	21.86	85.44	8.0	33.57	8.0	23.2	0.94
F13	17 Aug 2022	2	21.77	85.54	7.9	33.56	8.0	23.2	1.00
F13	17 Aug 2022	3	21.15	85.62	7.8	33.54	8.0	23.3	1.08
F13	17 Aug 2022	4	19.57	85.87	8.1	33.52	8.0	23.7	1.11
F13	17 Aug 2022	5	18.67	86.21	8.2	33.46	8.0	23.9	0.99
F13	17 Aug 2022	6	17.02	86.57	8.6	33.45	8.0	24.3	0.87
F13	17 Aug 2022	7	16.57	87.75	8.5	33.43	8.0	24.4	0.76
F13	17 Aug 2022	8	15.30	88.77	8.6	33.42	8.0	24.7	0.75
F13	17 Aug 2022	9	14.74	88.82	8.6	33.41	8.0	24.8	0.81
F13	17 Aug 2022	10	14.38	88.72	8.5	33.41	8.0	24.9	0.91
F13	17 Aug 2022	11	13.85	88.40	8.5	33.41	8.0	25.0	1.15
F13	17 Aug 2022	12	13.58	87.44	8.5	33.40	8.0	25.0	1.49
F13	17 Aug 2022	13	13.51	86.46	8.5	33.41	8.0	25.1	2.00
F13	17 Aug 2022	14	13.56	86.59	8.3	33.41	8.0	25.0	2.18
F13	17 Aug 2022	15	13.36	86.29	8.2	33.42	7.9	25.1	2.55
F13	17 Aug 2022	16	13.32	86.17	8.0	33.43	7.9	25.1	2.70
F13	17 Aug 2022	17	13.24	86.20	7.8	33.44	7.9	25.1	3.06
F13	17 Aug 2022	18	13.17	86.29	7.6	33.45	7.9	25.2	3.08
F13	17 Aug 2022	19	13.10	86.24	7.4	33.45	7.9	25.2	3.55
F13	17 Aug 2022	20	12.75	84.79	7.3	33.45	7.9	25.2	5.51
F13	17 Aug 2022	21	12.53	83.50	7.2	33.45	7.9	25.3	6.49
F13	17 Aug 2022	22	12.50	85.43	7.2	33.44	7.9	25.3	6.62
F13	17 Aug 2022	23	12.45	86.07	7.0	33.45	7.8	25.3	6.01
F13	17 Aug 2022	24	12.38	86.69	7.0	33.45	7.8	25.3	5.15
F13	17 Aug 2022	25	12.36	87.26	6.9	33.46	7.8	25.3	4.93
F13	17 Aug 2022	26	12.33	87.34	6.8	33.46	7.8	25.3	4.76
F13	17 Aug 2022	27	12.29	87.53	6.8	33.46	7.8	25.3	4.72
F13	17 Aug 2022	28	12.25	87.63	6.6	33.47	7.8	25.4	4.64
F13	17 Aug 2022	29	12.24	87.72	6.5	33.48	7.8	25.4	4.34
F13	17 Aug 2022	30	12.19	88.24	6.3	33.49	7.8	25.4	3.69
F13	17 Aug 2022	31	12.05	89.27	6.1	33.51	7.8	25.4	2.72
F13	17 Aug 2022	32	11.99	90.27	5.9	33.51	7.8	25.4	2.21
F13	17 Aug 2022	33	11.96	90.44	5.8	33.52	7.7	25.4	1.76
F13	17 Aug 2022	34	11.94	90.43	5.7	33.52	7.7	25.5	1.65
F13	17 Aug 2022	35	11.90	90.84	5.7	33.52	7.7	25.5	1.59
F13	17 Aug 2022	36	11.90	91.22	5.6	33.52	7.7	25.5	1.47
F13	17 Aug 2022	37	11.87	91.23	5.6	33.52	7.7	25.5	1.53
F13	17 Aug 2022	38	11.80	91.39	5.5	33.53	7.7	25.5	2.41
F13	17 Aug 2022	39	11.78	91.60	5.4	33.53	7.7	25.5	1.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F13	17 Aug 2022	40	11.75	91.68	5.4	33.53	7.7	25.5	1.37
F13	17 Aug 2022	41	11.71	91.81	5.4	33.53	7.7	25.5	1.12
F13	17 Aug 2022	42	11.65	92.05	5.4	33.53	7.7	25.5	0.95
F13	17 Aug 2022	43	11.63	92.37	5.4	33.53	7.7	25.5	0.83
F13	17 Aug 2022	44	11.62	92.45	5.3	33.53	7.7	25.5	0.75
F13	17 Aug 2022	45	11.60	92.38	5.2	33.53	7.7	25.5	0.72
F13	17 Aug 2022	46	11.57	92.32	5.1	33.54	7.7	25.5	0.68
F13	17 Aug 2022	47	11.58	92.24	5.0	33.54	7.7	25.5	0.67
F13	17 Aug 2022	48	11.53	92.09	4.9	33.55	7.6	25.5	0.66
F13	17 Aug 2022	49	11.50	92.11	4.8	33.55	7.6	25.6	0.67
F13	17 Aug 2022	50	11.47	92.16	4.8	33.55	7.6	25.6	0.60
F13	17 Aug 2022	51	11.45	92.20	4.8	33.56	7.6	25.6	0.58
F13	17 Aug 2022	52	11.42	92.23	4.8	33.56	7.6	25.6	0.56
F13	17 Aug 2022	53	11.37	92.09	4.6	33.57	7.6	25.6	0.52
F13	17 Aug 2022	54	11.31	91.52	4.6	33.58	7.6	25.6	0.50
F13	17 Aug 2022	55	11.26	91.07	4.5	33.58	7.6	25.6	0.46
F13	17 Aug 2022	56	11.25	90.34	4.5	33.58	7.6	25.6	0.48
F13	17 Aug 2022	57	11.24	89.48	4.4	33.59	7.6	25.6	0.47
F13	17 Aug 2022	58	11.23	87.88	4.3	33.59	7.6	25.6	0.53
F13	17 Aug 2022	59	11.20	86.06	4.3	33.59	7.6	25.6	0.52
F13	17 Aug 2022	60	11.18	85.13	4.3	33.59	7.6	25.6	0.55
F13	17 Aug 2022	61	11.17	84.83	4.3	33.59	7.6	25.6	0.50
F14	17 Aug 2022	1	22.57	85.00	7.7	33.59	8.0	23.0	1.15
F14	17 Aug 2022	2	22.47	85.26	7.8	33.58	8.0	23.0	1.18
F14	17 Aug 2022	3	22.39	85.56	7.7	33.58	8.0	23.0	1.24
F14	17 Aug 2022	4	22.05	85.78	7.8	33.57	8.0	23.1	1.26
F14	17 Aug 2022	5	21.91	85.94	7.9	33.57	8.0	23.2	1.23
F14	17 Aug 2022	6	21.67	85.94	7.8	33.56	8.0	23.2	1.33
F14	17 Aug 2022	7	20.76	85.97	7.8	33.54	8.0	23.4	1.43
F14	17 Aug 2022	8	19.47	86.20	8.1	33.51	8.0	23.8	1.30
F14	17 Aug 2022	9	18.22	86.46	8.3	33.46	8.0	24.0	1.13
F14	17 Aug 2022	10	16.14	87.03	8.6	33.42	8.0	24.5	0.88
F14	17 Aug 2022	11	15.11	88.35	8.8	33.41	8.0	24.7	0.84
F14	17 Aug 2022	12	14.61	88.75	8.7	33.39	8.0	24.8	0.87
F14	17 Aug 2022	13	13.91	88.77	8.8	33.39	8.0	25.0	1.07
F14	17 Aug 2022	14	13.98	88.09	8.6	33.38	8.0	24.9	1.32
F14	17 Aug 2022	15	13.34	87.11	8.2	33.41	8.0	25.1	2.12
F14	17 Aug 2022	16	13.25	86.27	8.0	33.42	7.9	25.1	2.85
F14	17 Aug 2022	17	13.22	86.07	7.9	33.42	7.9	25.1	3.29
F14	17 Aug 2022	18	13.18	85.96	7.7	33.43	7.9	25.1	3.43
F14	17 Aug 2022	19	13.01	86.01	7.5	33.45	7.9	25.2	3.81
F14	17 Aug 2022	20	12.74	85.43	7.3	33.45	7.9	25.2	4.68
F14	17 Aug 2022	21	12.56	85.41	7.1	33.45	7.8	25.3	5.25
F14	17 Aug 2022	22	12.42	86.18	7.0	33.45	7.8	25.3	5.41
F14	17 Aug 2022	23	12.40	86.13	6.9	33.45	7.8	25.3	4.99
F14	17 Aug 2022	24	12.39	86.11	6.9	33.46	7.8	25.3	5.56
F14	17 Aug 2022	25	12.41	86.29	6.9	33.46	7.8	25.3	5.15
F14	17 Aug 2022	26	12.40	86.23	6.9	33.46	7.8	25.3	5.22
F14	17 Aug 2022	27	12.41	86.24	6.8	33.47	7.8	25.3	5.51
F14	17 Aug 2022	28	12.41	85.67	6.7	33.48	7.8	25.3	6.18
F14	17 Aug 2022	29	12.36	86.13	6.6	33.48	7.8	25.3	5.38
F14	17 Aug 2022	30	12.32	87.15	6.5	33.48	7.8	25.3	4.84
F14	17 Aug 2022	31	12.31	87.61	6.4	33.48	7.8	25.4	4.36
F14	17 Aug 2022	32	12.25	87.76	6.2	33.49	7.8	25.4	3.62
F14	17 Aug 2022	33	12.21	88.94	6.1	33.49	7.8	25.4	2.83
F14	17 Aug 2022	34	12.16	90.65	6.0	33.49	7.8	25.4	2.15
F14	17 Aug 2022	35	12.11	91.12	5.9	33.49	7.7	25.4	1.59
F14	17 Aug 2022	36	12.06	91.50	5.8	33.50	7.7	25.4	1.31
F14	17 Aug 2022	37	11.95	91.58	5.6	33.51	7.7	25.4	1.27
F14	17 Aug 2022	38	11.87	91.73	5.5	33.52	7.7	25.5	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F14	17 Aug 2022	39	11.84	91.89	5.5	33.52	7.7	25.5	1.13
F14	17 Aug 2022	40	11.81	92.05	5.4	33.52	7.7	25.5	0.91
F14	17 Aug 2022	41	11.77	92.00	5.3	33.52	7.7	25.5	0.91
F14	17 Aug 2022	42	11.72	92.02	5.3	33.53	7.7	25.5	0.95
F14	17 Aug 2022	43	11.71	91.99	5.3	33.53	7.7	25.5	0.88
F14	17 Aug 2022	44	11.66	92.03	5.3	33.54	7.7	25.5	0.88
F14	17 Aug 2022	45	11.61	92.07	5.2	33.54	7.7	25.5	0.87
F14	17 Aug 2022	46	11.57	92.07	5.2	33.54	7.7	25.5	0.85
F14	17 Aug 2022	47	11.50	92.21	5.1	33.55	7.7	25.6	0.77
F14	17 Aug 2022	48	11.47	92.44	5.1	33.55	7.7	25.6	0.65
F14	17 Aug 2022	49	11.44	92.63	5.1	33.55	7.7	25.6	0.62
F14	17 Aug 2022	50	11.39	92.63	5.2	33.56	7.7	25.6	0.58
F14	17 Aug 2022	51	11.36	92.62	5.2	33.56	7.7	25.6	0.56
F14	17 Aug 2022	52	11.32	92.61	5.1	33.56	7.7	25.6	0.53
F14	17 Aug 2022	53	11.32	92.30	5.1	33.57	7.6	25.6	0.56
F14	17 Aug 2022	54	11.29	91.20	4.9	33.58	7.6	25.6	0.53
F14	17 Aug 2022	55	11.27	88.87	4.6	33.58	7.6	25.6	0.49
F14	17 Aug 2022	56	11.27	87.64	4.5	33.58	7.6	25.6	0.49
F14	17 Aug 2022	57	11.25	87.06	4.5	33.58	7.6	25.6	0.56
F14	17 Aug 2022	58	11.23	87.07	4.5	33.59	7.6	25.6	0.47
F14	17 Aug 2022	59	11.22	87.13	4.5	33.59	7.6	25.6	0.53
F14	17 Aug 2022	60	11.21	86.63	4.5	33.59	7.6	25.6	0.47
F15	18 Aug 2022	1	23.36	86.10	7.9	33.59	8.2	22.8	0.49
F15	18 Aug 2022	2	23.32	85.74	7.9	33.59	8.2	22.8	0.52
F15	18 Aug 2022	3	23.17	86.14	7.8	33.59	8.2	22.8	0.55
F15	18 Aug 2022	4	22.47	85.76	8.0	33.57	8.2	23.0	0.59
F15	18 Aug 2022	5	21.85	85.31	7.8	33.55	8.2	23.2	0.62
F15	18 Aug 2022	6	18.88	86.34	8.2	33.49	8.2	23.9	0.60
F15	18 Aug 2022	7	18.26	87.52	8.5	33.47	8.2	24.0	0.58
F15	18 Aug 2022	8	18.12	88.05	8.6	33.46	8.2	24.1	0.54
F15	18 Aug 2022	9	18.05	88.03	8.7	33.46	8.2	24.1	0.54
F15	18 Aug 2022	10	17.48	88.31	8.6	33.46	8.2	24.2	0.56
F15	18 Aug 2022	11	17.22	88.69	8.7	33.47	8.2	24.3	0.59
F15	18 Aug 2022	12	16.65	88.96	8.7	33.46	8.2	24.4	0.62
F15	18 Aug 2022	13	16.43	89.02	8.8	33.45	8.2	24.5	0.61
F15	18 Aug 2022	14	16.14	89.29	8.8	33.45	8.2	24.5	0.62
F15	18 Aug 2022	15	16.06	89.48	8.8	33.45	8.2	24.5	0.63
F15	18 Aug 2022	16	15.40	89.55	8.9	33.44	8.2	24.7	0.62
F15	18 Aug 2022	17	15.07	89.73	8.9	33.44	8.2	24.8	0.63
F15	18 Aug 2022	18	14.81	89.59	8.8	33.44	8.2	24.8	0.68
F15	18 Aug 2022	19	14.48	87.77	8.7	33.44	8.2	24.9	0.96
F15	18 Aug 2022	20	14.32	86.79	8.5	33.44	8.2	24.9	1.22
F15	18 Aug 2022	21	13.79	85.54	8.5	33.45	8.2	25.0	1.68
F15	18 Aug 2022	22	13.60	84.06	8.4	33.45	8.2	25.1	2.53
F15	18 Aug 2022	23	13.41	83.16	8.4	33.45	8.2	25.1	3.27
F15	18 Aug 2022	24	13.29	81.76	8.3	33.46	8.2	25.1	4.53
F15	18 Aug 2022	25	13.21	82.11	8.2	33.46	8.1	25.2	5.36
F15	18 Aug 2022	26	13.02	82.86	8.0	33.47	8.1	25.2	6.00
F15	18 Aug 2022	27	12.98	83.69	7.7	33.47	8.1	25.2	5.98
F15	18 Aug 2022	28	12.78	84.22	7.5	33.47	8.1	25.3	5.81
F15	18 Aug 2022	29	12.75	85.23	7.3	33.47	8.1	25.3	5.06
F15	18 Aug 2022	30	12.62	85.67	7.1	33.47	8.1	25.3	4.80
F15	18 Aug 2022	31	12.49	88.36	6.7	33.48	8.0	25.3	4.05
F15	18 Aug 2022	32	12.25	89.92	6.3	33.50	8.0	25.4	3.20
F15	18 Aug 2022	33	12.23	90.57	6.1	33.50	8.0	25.4	2.18
F15	18 Aug 2022	34	12.20	90.81	6.0	33.50	8.0	25.4	1.84
F15	18 Aug 2022	35	12.18	91.05	5.9	33.51	8.0	25.4	1.64
F15	18 Aug 2022	36	12.09	91.17	5.8	33.51	8.0	25.4	1.48
F15	18 Aug 2022	37	12.03	91.33	5.6	33.52	7.9	25.4	1.39
F15	18 Aug 2022	38	11.89	91.56	5.5	33.53	7.9	25.5	1.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F15	18 Aug 2022	39	11.85	91.60	5.4	33.53	7.9	25.5	1.19
F15	18 Aug 2022	40	11.77	91.68	5.3	33.54	7.9	25.5	1.13
F15	18 Aug 2022	41	11.76	91.66	5.3	33.54	7.9	25.5	1.20
F15	18 Aug 2022	42	11.73	91.70	5.2	33.54	7.9	25.5	1.07
F15	18 Aug 2022	43	11.70	91.76	5.2	33.54	7.9	25.5	1.09
F15	18 Aug 2022	44	11.65	91.67	5.2	33.55	7.9	25.5	1.01
F15	18 Aug 2022	45	11.62	91.89	5.2	33.55	7.9	25.5	1.04
F15	18 Aug 2022	46	11.48	92.05	5.1	33.56	7.9	25.6	0.95
F15	18 Aug 2022	47	11.43	92.16	5.0	33.57	7.9	25.6	0.84
F15	18 Aug 2022	48	11.35	92.22	4.9	33.58	7.9	25.6	0.79
F15	18 Aug 2022	49	11.35	92.12	4.9	33.58	7.9	25.6	0.69
F15	18 Aug 2022	50	11.33	92.20	4.8	33.58	7.9	25.6	0.65
F15	18 Aug 2022	51	11.32	92.23	4.8	33.58	7.8	25.6	0.66
F15	18 Aug 2022	52	11.29	92.28	4.8	33.59	7.8	25.6	0.61
F15	18 Aug 2022	53	11.17	92.28	4.7	33.60	7.8	25.7	0.57
F15	18 Aug 2022	54	11.13	92.27	4.6	33.61	7.8	25.7	0.54
F15	18 Aug 2022	55	11.07	92.21	4.6	33.62	7.8	25.7	0.49
F15	18 Aug 2022	56	11.05	92.25	4.6	33.62	7.8	25.7	0.51
F15	18 Aug 2022	57	11.04	92.25	4.6	33.62	7.8	25.7	0.44
F15	18 Aug 2022	58	10.97	92.27	4.6	33.63	7.8	25.7	0.43
F15	18 Aug 2022	59	10.97	92.27	4.5	33.63	7.8	25.7	0.40
F15	18 Aug 2022	60	10.94	92.23	4.5	33.64	7.8	25.7	0.40
F15	18 Aug 2022	61	10.93	92.21	4.5	33.64	7.8	25.7	0.38
F15	18 Aug 2022	62	10.90	92.28	4.5	33.65	7.8	25.7	0.37
F15	18 Aug 2022	63	10.90	92.29	4.5	33.65	7.8	25.7	0.37
F15	18 Aug 2022	64	10.87	92.21	4.5	33.66	7.8	25.8	0.38
F15	18 Aug 2022	65	10.85	92.17	4.5	33.66	7.8	25.8	0.37
F15	18 Aug 2022	66	10.82	92.08	4.5	33.67	7.8	25.8	0.36
F15	18 Aug 2022	67	10.82	92.05	4.5	33.67	7.8	25.8	0.34
F15	18 Aug 2022	68	10.81	92.06	4.4	33.68	7.8	25.8	0.34
F15	18 Aug 2022	69	10.80	92.03	4.4	33.68	7.8	25.8	0.34
F15	18 Aug 2022	70	10.75	92.01	4.4	33.70	7.8	25.8	0.34
F15	18 Aug 2022	71	10.73	91.92	4.4	33.70	7.8	25.8	0.33
F15	18 Aug 2022	72	10.73	91.72	4.4	33.70	7.8	25.8	0.33
F15	18 Aug 2022	73	10.70	91.24	4.3	33.71	7.8	25.8	0.31
F15	18 Aug 2022	74	10.70	90.42	4.3	33.71	7.8	25.8	0.32
F15	18 Aug 2022	75	10.70	90.18	4.3	33.71	7.8	25.8	0.32
F15	18 Aug 2022	76	10.70	89.86	4.3	33.71	7.8	25.8	0.32
F15	18 Aug 2022	77	10.70	89.83	4.2	33.71	7.8	25.8	0.31
F15	18 Aug 2022	78	10.70	89.70	4.2	33.71	7.8	25.8	0.31
F15	18 Aug 2022	79	10.70	89.57	4.2	33.71	7.8	25.8	0.32
F15	18 Aug 2022	80	10.70	89.54	4.3	33.71	7.8	25.8	0.31
F15	18 Aug 2022	81	10.70	89.56	4.3	33.71	7.8	25.8	0.31
F16	18 Aug 2022	1	22.44	85.17	8.0	33.57	8.2	23.0	0.56
F16	18 Aug 2022	2	22.44	85.29	7.9	33.57	8.2	23.0	0.60
F16	18 Aug 2022	3	22.40	85.30	7.9	33.57	8.2	23.0	0.59
F16	18 Aug 2022	4	22.35	85.47	8.0	33.57	8.2	23.0	0.65
F16	18 Aug 2022	5	22.27	85.55	7.9	33.56	8.2	23.0	0.71
F16	18 Aug 2022	6	22.00	85.55	8.0	33.56	8.2	23.1	0.70
F16	18 Aug 2022	7	21.80	85.74	7.9	33.55	8.2	23.2	0.72
F16	18 Aug 2022	8	21.29	85.83	8.0	33.53	8.2	23.3	0.72
F16	18 Aug 2022	9	20.70	86.16	8.1	33.52	8.2	23.5	0.71
F16	18 Aug 2022	10	20.23	86.56	7.9	33.50	8.2	23.6	0.68
F16	18 Aug 2022	11	18.29	87.57	8.1	33.46	8.2	24.0	0.62
F16	18 Aug 2022	12	16.82	88.70	8.3	33.42	8.2	24.3	0.55
F16	18 Aug 2022	13	15.14	89.28	8.7	33.40	8.2	24.7	0.51
F16	18 Aug 2022	14	14.84	89.17	8.8	33.41	8.2	24.8	0.52
F16	18 Aug 2022	15	14.68	88.78	8.6	33.40	8.2	24.8	0.57
F16	18 Aug 2022	16	14.44	88.33	8.5	33.41	8.2	24.9	0.72
F16	18 Aug 2022	17	14.12	86.52	8.4	33.42	8.2	24.9	0.96

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F16	18 Aug 2022	18	13.77	84.60	8.3	33.43	8.2	25.0	1.43
F16	18 Aug 2022	19	13.38	83.63	8.1	33.44	8.1	25.1	2.13
F16	18 Aug 2022	20	13.34	83.64	8.0	33.45	8.1	25.1	2.67
F16	18 Aug 2022	21	13.15	83.86	7.8	33.45	8.1	25.2	3.04
F16	18 Aug 2022	22	13.06	84.13	7.7	33.46	8.1	25.2	3.50
F16	18 Aug 2022	23	12.99	84.41	7.6	33.46	8.1	25.2	3.94
F16	18 Aug 2022	24	12.96	84.45	7.6	33.47	8.1	25.2	4.39
F16	18 Aug 2022	25	12.92	84.37	7.5	33.47	8.1	25.2	4.70
F16	18 Aug 2022	26	12.78	84.84	7.3	33.48	8.1	25.3	4.63
F16	18 Aug 2022	27	12.61	86.00	7.0	33.48	8.1	25.3	4.39
F16	18 Aug 2022	28	12.46	87.76	6.7	33.49	8.0	25.3	3.82
F16	18 Aug 2022	29	12.40	88.16	6.6	33.49	8.0	25.3	3.15
F16	18 Aug 2022	30	12.29	88.35	6.4	33.50	8.0	25.4	3.01
F16	18 Aug 2022	31	12.31	89.14	6.2	33.50	8.0	25.4	2.69
F16	18 Aug 2022	32	12.19	89.83	6.1	33.51	8.0	25.4	2.44
F16	18 Aug 2022	33	12.14	90.33	5.9	33.51	8.0	25.4	1.99
F16	18 Aug 2022	34	12.07	90.77	5.8	33.52	8.0	25.4	1.71
F16	18 Aug 2022	35	12.04	91.08	5.8	33.52	7.9	25.4	1.65
F16	18 Aug 2022	36	11.96	91.15	5.7	33.52	7.9	25.4	1.50
F16	18 Aug 2022	37	11.96	91.23	5.6	33.52	7.9	25.5	1.39
F16	18 Aug 2022	38	11.92	91.25	5.6	33.53	7.9	25.5	1.34
F16	18 Aug 2022	39	11.87	91.36	5.5	33.53	7.9	25.5	1.31
F16	18 Aug 2022	40	11.85	91.41	5.4	33.53	7.9	25.5	1.25
F16	18 Aug 2022	41	11.80	91.41	5.4	33.54	7.9	25.5	1.34
F16	18 Aug 2022	42	11.77	91.48	5.4	33.54	7.9	25.5	1.32
F16	18 Aug 2022	43	11.76	91.54	5.4	33.54	7.9	25.5	1.38
F16	18 Aug 2022	44	11.70	91.55	5.3	33.55	7.9	25.5	1.20
F16	18 Aug 2022	45	11.69	91.56	5.3	33.55	7.9	25.5	1.17
F16	18 Aug 2022	46	11.65	91.57	5.3	33.55	7.9	25.5	1.17
F16	18 Aug 2022	47	11.63	91.53	5.2	33.55	7.9	25.5	1.15
F16	18 Aug 2022	48	11.47	91.68	5.1	33.57	7.9	25.6	1.08
F16	18 Aug 2022	49	11.39	92.00	5.1	33.57	7.9	25.6	0.92
F16	18 Aug 2022	50	11.34	92.03	5.0	33.58	7.9	25.6	0.85
F16	18 Aug 2022	51	11.34	92.02	5.0	33.58	7.9	25.6	0.80
F16	18 Aug 2022	52	11.33	92.05	5.0	33.58	7.9	25.6	0.74
F16	18 Aug 2022	53	11.33	92.00	5.0	33.58	7.9	25.6	0.77
F16	18 Aug 2022	54	11.32	92.03	5.0	33.58	7.9	25.6	0.70
F16	18 Aug 2022	55	11.32	92.08	5.0	33.58	7.9	25.6	0.74
F16	18 Aug 2022	56	11.32	92.08	5.0	33.58	7.9	25.6	0.67
F16	18 Aug 2022	57	11.31	92.08	5.0	33.58	7.9	25.6	0.68
F16	18 Aug 2022	58	11.31	92.16	5.0	33.58	7.8	25.6	0.66
F16	18 Aug 2022	59	11.30	92.13	4.9	33.58	7.8	25.6	0.65
F16	18 Aug 2022	60	11.28	92.21	4.9	33.58	7.8	25.6	0.63
F16	18 Aug 2022	61	11.24	92.21	4.8	33.59	7.8	25.6	0.60
F16	18 Aug 2022	62	11.20	92.29	4.8	33.59	7.8	25.6	0.55
F16	18 Aug 2022	63	11.13	92.23	4.7	33.61	7.8	25.7	0.52
F16	18 Aug 2022	64	11.09	92.11	4.7	33.61	7.8	25.7	0.48
F16	18 Aug 2022	65	11.07	92.26	4.6	33.61	7.8	25.7	0.45
F16	18 Aug 2022	66	11.06	92.31	4.6	33.61	7.8	25.7	0.44
F16	18 Aug 2022	67	11.06	92.30	4.6	33.61	7.8	25.7	0.41
F16	18 Aug 2022	68	11.05	92.31	4.6	33.61	7.8	25.7	0.40
F16	18 Aug 2022	69	11.01	92.19	4.6	33.62	7.8	25.7	0.39
F16	18 Aug 2022	70	10.98	92.04	4.5	33.63	7.8	25.7	0.38
F16	18 Aug 2022	71	10.96	91.97	4.5	33.64	7.8	25.7	0.37
F16	18 Aug 2022	72	10.91	91.97	4.5	33.65	7.8	25.7	0.37
F16	18 Aug 2022	73	10.82	91.86	4.4	33.67	7.8	25.8	0.34
F16	18 Aug 2022	74	10.85	91.90	4.4	33.66	7.8	25.8	0.33
F16	18 Aug 2022	75	10.73	91.65	4.3	33.70	7.8	25.8	0.32
F16	18 Aug 2022	76	10.71	90.91	4.3	33.71	7.8	25.8	0.30
F16	18 Aug 2022	77	10.71	90.65	4.3	33.71	7.8	25.8	0.30
F16	18 Aug 2022	78	10.71	90.59	4.3	33.71	7.8	25.8	0.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F16	18 Aug 2022	79	10.71	90.47	4.3	33.71	7.8	25.8	0.30
F16	18 Aug 2022	80	10.71	90.18	4.2	33.71	7.8	25.8	0.28
F16	18 Aug 2022	81	10.71	90.23	4.3	33.71	7.8	25.8	0.29
F17	18 Aug 2022	1	22.78	85.56	8.0	33.54	8.2	22.9	0.57
F17	18 Aug 2022	2	22.64	85.46	8.0	33.56	8.2	22.9	0.55
F17	18 Aug 2022	3	22.16	85.62	7.9	33.55	8.2	23.1	0.56
F17	18 Aug 2022	4	20.91	85.91	7.6	33.47	8.2	23.3	0.56
F17	18 Aug 2022	5	17.54	86.88	8.6	33.45	8.2	24.2	0.53
F17	18 Aug 2022	6	17.90	89.02	8.2	33.42	8.2	24.1	0.51
F17	18 Aug 2022	7	14.86	89.01	8.6	33.41	8.2	24.8	0.51
F17	18 Aug 2022	8	14.73	87.47	8.6	33.41	8.2	24.8	0.62
F17	18 Aug 2022	9	14.15	86.26	8.3	33.41	8.2	24.9	0.87
F17	18 Aug 2022	10	13.88	84.94	8.2	33.42	8.1	25.0	1.28
F17	18 Aug 2022	11	13.66	84.37	8.0	33.42	8.1	25.0	1.61
F17	18 Aug 2022	12	13.37	83.56	7.8	33.43	8.1	25.1	1.98
F17	18 Aug 2022	13	13.23	84.40	7.6	33.45	8.1	25.1	2.43
F17	18 Aug 2022	14	12.97	85.33	7.4	33.45	8.1	25.2	2.60
F17	18 Aug 2022	15	12.83	85.77	7.2	33.46	8.1	25.2	2.64
F17	18 Aug 2022	16	12.74	86.35	7.1	33.47	8.1	25.3	2.66
F17	18 Aug 2022	17	12.70	87.35	7.0	33.47	8.1	25.3	2.71
F17	18 Aug 2022	18	12.57	87.86	6.8	33.48	8.0	25.3	2.60
F17	18 Aug 2022	19	12.47	88.34	6.7	33.48	8.0	25.3	2.44
F17	18 Aug 2022	20	12.43	89.10	6.5	33.49	8.0	25.3	2.24
F17	18 Aug 2022	21	12.24	89.60	6.3	33.50	8.0	25.4	2.14
F17	18 Aug 2022	22	12.15	89.81	6.1	33.51	8.0	25.4	1.92
F17	18 Aug 2022	23	12.13	90.20	6.0	33.51	8.0	25.4	1.90
F17	18 Aug 2022	24	12.10	90.39	5.9	33.51	8.0	25.4	1.80
F17	18 Aug 2022	25	12.08	90.34	5.9	33.52	8.0	25.4	1.69
F17	18 Aug 2022	26	12.03	90.39	5.8	33.52	8.0	25.4	1.67
F17	18 Aug 2022	27	11.86	90.79	5.6	33.53	7.9	25.5	1.63
F17	18 Aug 2022	28	11.76	91.27	5.5	33.54	7.9	25.5	1.35
F17	18 Aug 2022	29	11.68	91.43	5.4	33.55	7.9	25.5	1.38
F17	18 Aug 2022	30	11.66	91.56	5.3	33.55	7.9	25.5	1.19
F17	18 Aug 2022	31	11.60	91.61	5.3	33.55	7.9	25.5	1.08
F17	18 Aug 2022	32	11.51	91.78	5.2	33.56	7.9	25.6	1.09
F17	18 Aug 2022	33	11.48	91.68	5.2	33.57	7.9	25.6	0.95
F17	18 Aug 2022	34	11.45	91.91	5.1	33.57	7.9	25.6	0.93
F17	18 Aug 2022	35	11.43	91.92	5.1	33.57	7.9	25.6	0.89
F17	18 Aug 2022	36	11.36	91.98	5.0	33.58	7.9	25.6	0.81
F17	18 Aug 2022	37	11.34	92.07	5.0	33.58	7.9	25.6	0.75
F17	18 Aug 2022	38	11.29	92.04	5.0	33.58	7.9	25.6	0.72
F17	18 Aug 2022	39	11.28	92.10	5.0	33.58	7.9	25.6	0.68
F17	18 Aug 2022	40	11.27	92.10	4.9	33.58	7.9	25.6	0.67
F17	18 Aug 2022	41	11.24	92.08	4.9	33.58	7.9	25.6	0.63
F17	18 Aug 2022	42	11.23	92.10	4.9	33.59	7.9	25.6	0.59
F17	18 Aug 2022	43	11.19	92.09	4.9	33.59	7.8	25.6	0.58
F17	18 Aug 2022	44	11.17	92.14	4.8	33.59	7.8	25.6	0.52
F17	18 Aug 2022	45	11.14	92.12	4.8	33.59	7.8	25.7	0.48
F17	18 Aug 2022	46	11.13	92.11	4.8	33.59	7.8	25.7	0.46
F17	18 Aug 2022	47	11.11	92.13	4.7	33.59	7.8	25.7	0.44
F17	18 Aug 2022	48	11.10	92.12	4.7	33.59	7.8	25.7	0.42
F17	18 Aug 2022	49	11.09	92.12	4.7	33.59	7.8	25.7	0.42
F17	18 Aug 2022	50	11.08	91.98	4.7	33.59	7.8	25.7	0.41
F17	18 Aug 2022	51	11.05	91.77	4.7	33.59	7.8	25.7	0.40
F17	18 Aug 2022	52	11.05	91.68	4.6	33.59	7.8	25.7	0.40
F17	18 Aug 2022	53	11.05	91.74	4.6	33.59	7.8	25.7	0.40
F17	18 Aug 2022	54	11.04	91.64	4.6	33.59	7.8	25.7	0.38
F17	18 Aug 2022	55	11.01	91.56	4.6	33.59	7.8	25.7	0.37
F17	18 Aug 2022	56	10.96	91.49	4.5	33.60	7.8	25.7	0.37
F17	18 Aug 2022	57	10.94	91.40	4.5	33.60	7.8	25.7	0.34

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F17	18 Aug 2022	58	10.92	91.50	4.5	33.61	7.8	25.7	0.32
F17	18 Aug 2022	59	10.92	91.53	4.5	33.61	7.8	25.7	0.31
F17	18 Aug 2022	60	10.90	91.56	4.5	33.62	7.8	25.7	0.30
F17	18 Aug 2022	61	10.88	91.47	4.4	33.62	7.8	25.7	0.30
F17	18 Aug 2022	62	10.88	91.56	4.4	33.63	7.8	25.7	0.29
F17	18 Aug 2022	63	10.87	91.58	4.4	33.63	7.8	25.7	0.30
F17	18 Aug 2022	64	10.87	91.64	4.4	33.63	7.8	25.7	0.29
F17	18 Aug 2022	65	10.86	91.73	4.5	33.63	7.8	25.7	0.28
F17	18 Aug 2022	66	10.86	91.69	4.4	33.63	7.8	25.7	0.29
F17	18 Aug 2022	67	10.85	91.71	4.4	33.64	7.8	25.7	0.29
F17	18 Aug 2022	68	10.84	91.81	4.4	33.64	7.8	25.7	0.28
F17	18 Aug 2022	69	10.82	91.83	4.4	33.65	7.8	25.8	0.28
F17	18 Aug 2022	70	10.81	91.84	4.4	33.65	7.8	25.8	0.28
F17	18 Aug 2022	71	10.80	91.84	4.4	33.66	7.8	25.8	0.27
F17	18 Aug 2022	72	10.77	91.69	4.3	33.67	7.8	25.8	0.26
F17	18 Aug 2022	73	10.75	91.34	4.3	33.68	7.8	25.8	0.26
F17	18 Aug 2022	74	10.71	90.65	4.3	33.69	7.8	25.8	0.27
F17	18 Aug 2022	75	10.71	89.76	4.2	33.70	7.8	25.8	0.26
F17	18 Aug 2022	76	10.70	89.24	4.2	33.70	7.8	25.8	0.27
F17	18 Aug 2022	77	10.70	88.94	4.2	33.70	7.8	25.8	0.27
F17	18 Aug 2022	78	10.70	88.87	4.2	33.70	7.8	25.8	0.26
F17	18 Aug 2022	79	10.70	88.80	4.2	33.70	7.8	25.8	0.27
F17	18 Aug 2022	80	10.70	88.81	4.2	33.70	7.8	25.8	0.26
F17	18 Aug 2022	81	10.70	88.94	4.2	33.70	7.8	25.8	0.27
F17	18 Aug 2022	82	10.70	88.61	4.2	33.70	7.8	25.8	0.28
F18	18 Aug 2022	1	22.99	85.24	8.0	33.59	8.2	22.9	0.51
F18	18 Aug 2022	2	22.66	85.87	7.7	33.56	8.2	22.9	0.51
F18	18 Aug 2022	3	20.39	85.65	8.2	33.51	8.2	23.5	0.49
F18	18 Aug 2022	4	19.86	85.86	7.8	33.46	8.2	23.6	0.46
F18	18 Aug 2022	5	16.65	88.25	8.5	33.46	8.2	24.4	0.44
F18	18 Aug 2022	6	16.42	88.98	8.6	33.42	8.2	24.4	0.44
F18	18 Aug 2022	7	16.37	89.26	8.6	33.42	8.2	24.5	0.51
F18	18 Aug 2022	8	16.02	89.42	8.6	33.42	8.2	24.5	0.51
F18	18 Aug 2022	9	15.81	89.36	8.7	33.43	8.2	24.6	0.54
F18	18 Aug 2022	10	15.60	89.50	8.8	33.43	8.2	24.6	0.49
F18	18 Aug 2022	11	15.19	89.41	8.8	33.43	8.2	24.7	0.52
F18	18 Aug 2022	12	14.63	89.23	8.7	33.43	8.2	24.8	0.54
F18	18 Aug 2022	13	14.32	88.55	8.6	33.43	8.2	24.9	0.60
F18	18 Aug 2022	14	14.06	87.76	8.5	33.42	8.2	25.0	0.76
F18	18 Aug 2022	15	13.76	86.40	8.3	33.44	8.1	25.0	1.45
F18	18 Aug 2022	16	13.52	85.63	8.1	33.45	8.1	25.1	1.85
F18	18 Aug 2022	17	13.45	85.00	7.9	33.46	8.1	25.1	2.37
F18	18 Aug 2022	18	13.38	84.84	7.8	33.46	8.1	25.1	2.74
F18	18 Aug 2022	19	13.21	85.32	7.5	33.47	8.1	25.2	3.21
F18	18 Aug 2022	20	12.80	86.80	7.2	33.48	8.1	25.3	3.21
F18	18 Aug 2022	21	12.59	88.31	6.8	33.49	8.0	25.3	2.75
F18	18 Aug 2022	22	12.41	89.65	6.5	33.50	8.0	25.3	2.31
F18	18 Aug 2022	23	12.25	90.20	6.2	33.50	8.0	25.4	1.92
F18	18 Aug 2022	24	12.11	90.48	6.0	33.51	8.0	25.4	1.76
F18	18 Aug 2022	25	12.01	90.55	5.9	33.52	8.0	25.4	1.56
F18	18 Aug 2022	26	12.02	90.80	5.8	33.52	8.0	25.4	1.45
F18	18 Aug 2022	27	11.95	90.95	5.8	33.52	8.0	25.5	1.39
F18	18 Aug 2022	28	11.96	90.94	5.8	33.52	7.9	25.5	1.37
F18	18 Aug 2022	29	11.91	90.81	5.7	33.53	7.9	25.5	1.40
F18	18 Aug 2022	30	11.88	91.07	5.7	33.53	7.9	25.5	1.36
F18	18 Aug 2022	31	11.88	91.07	5.6	33.53	7.9	25.5	1.43
F18	18 Aug 2022	32	11.85	91.21	5.5	33.53	7.9	25.5	1.34
F18	18 Aug 2022	33	11.79	91.30	5.5	33.54	7.9	25.5	1.33
F18	18 Aug 2022	34	11.77	91.38	5.5	33.54	7.9	25.5	1.32
F18	18 Aug 2022	35	11.76	91.49	5.4	33.54	7.9	25.5	1.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F18	18 Aug 2022	36	11.76	91.46	5.5	33.54	7.9	25.5	1.34
F18	18 Aug 2022	37	11.73	91.56	5.4	33.54	7.9	25.5	1.21
F18	18 Aug 2022	38	11.72	91.44	5.4	33.55	7.9	25.5	1.17
F18	18 Aug 2022	39	11.68	91.54	5.4	33.55	7.9	25.5	1.17
F18	18 Aug 2022	40	11.59	91.70	5.3	33.56	7.9	25.5	1.09
F18	18 Aug 2022	41	11.53	91.74	5.2	33.56	7.9	25.6	0.99
F18	18 Aug 2022	42	11.44	91.91	5.2	33.57	7.9	25.6	0.97
F18	18 Aug 2022	43	11.39	91.87	5.1	33.57	7.9	25.6	0.85
F18	18 Aug 2022	44	11.34	91.98	5.0	33.57	7.9	25.6	0.79
F18	18 Aug 2022	45	11.31	92.06	5.0	33.58	7.9	25.6	0.71
F18	18 Aug 2022	46	11.31	91.98	5.0	33.58	7.9	25.6	0.65
F18	18 Aug 2022	47	11.29	92.02	5.0	33.58	7.9	25.6	0.64
F18	18 Aug 2022	48	11.27	91.99	4.9	33.58	7.8	25.6	0.62
F18	18 Aug 2022	49	11.23	91.94	4.8	33.59	7.8	25.6	0.64
F18	18 Aug 2022	50	11.21	91.88	4.8	33.59	7.8	25.6	0.60
F18	18 Aug 2022	51	11.20	91.94	4.8	33.59	7.8	25.6	0.55
F18	18 Aug 2022	52	11.17	91.93	4.8	33.59	7.8	25.6	0.53
F18	18 Aug 2022	53	11.17	92.09	4.8	33.59	7.8	25.6	0.55
F18	18 Aug 2022	54	11.13	92.09	4.8	33.59	7.8	25.7	0.51
F18	18 Aug 2022	55	11.13	92.07	4.8	33.59	7.8	25.7	0.49
F18	18 Aug 2022	56	11.11	92.07	4.7	33.59	7.8	25.7	0.45
F18	18 Aug 2022	57	11.10	92.06	4.7	33.59	7.8	25.7	0.43
F18	18 Aug 2022	58	11.09	92.03	4.7	33.60	7.8	25.7	0.44
F18	18 Aug 2022	59	11.07	92.06	4.7	33.60	7.8	25.7	0.39
F18	18 Aug 2022	60	11.05	92.09	4.7	33.60	7.8	25.7	0.38
F18	18 Aug 2022	61	11.00	92.15	4.6	33.60	7.8	25.7	0.37
F18	18 Aug 2022	62	10.92	92.04	4.5	33.61	7.8	25.7	0.33
F18	18 Aug 2022	63	10.89	91.84	4.5	33.62	7.8	25.7	0.34
F18	18 Aug 2022	64	10.88	91.87	4.5	33.62	7.8	25.7	0.36
F18	18 Aug 2022	65	10.85	92.01	4.5	33.63	7.8	25.7	0.31
F18	18 Aug 2022	66	10.82	92.02	4.4	33.64	7.8	25.8	0.28
F18	18 Aug 2022	67	10.81	92.04	4.4	33.65	7.8	25.8	0.27
F18	18 Aug 2022	68	10.79	91.78	4.4	33.66	7.8	25.8	0.27
F18	18 Aug 2022	69	10.78	91.36	4.4	33.66	7.8	25.8	0.29
F18	18 Aug 2022	70	10.78	91.20	4.3	33.66	7.8	25.8	0.28
F18	18 Aug 2022	71	10.75	90.96	4.3	33.67	7.8	25.8	0.28
F18	18 Aug 2022	72	10.74	90.26	4.3	33.68	7.8	25.8	0.27
F18	18 Aug 2022	73	10.74	89.36	4.2	33.68	7.8	25.8	0.27
F18	18 Aug 2022	74	10.74	89.28	4.2	33.68	7.8	25.8	0.29
F18	18 Aug 2022	75	10.73	88.88	4.2	33.68	7.8	25.8	0.28
F18	18 Aug 2022	76	10.73	88.34	4.2	33.69	7.8	25.8	0.28
F18	18 Aug 2022	77	10.73	88.39	4.2	33.69	7.8	25.8	0.29
F18	18 Aug 2022	78	10.73	88.49	4.2	33.69	7.8	25.8	0.27
F18	18 Aug 2022	79	10.73	88.11	4.2	33.69	7.8	25.8	0.28
F18	18 Aug 2022	80	10.73	87.31	4.2	33.69	7.8	25.8	0.29
F18	18 Aug 2022	81	10.73	86.71	4.2	33.69	7.8	25.8	0.29
F19	18 Aug 2022	1	23.58	87.41	7.6	33.62	8.2	22.7	0.36
F19	18 Aug 2022	2	23.49	87.44	7.6	33.62	8.2	22.7	0.37
F19	18 Aug 2022	3	23.34	87.64	7.5	33.60	8.2	22.8	0.37
F19	18 Aug 2022	4	22.41	87.07	7.4	33.55	8.2	23.0	0.43
F19	18 Aug 2022	5	18.70	86.23	8.0	33.44	8.2	23.9	0.46
F19	18 Aug 2022	6	16.58	87.99	8.3	33.40	8.2	24.4	0.41
F19	18 Aug 2022	7	15.52	88.90	8.7	33.41	8.2	24.6	0.42
F19	18 Aug 2022	8	15.40	89.52	8.6	33.40	8.2	24.6	0.45
F19	18 Aug 2022	9	15.15	89.56	8.6	33.40	8.2	24.7	0.46
F19	18 Aug 2022	10	15.10	89.57	8.7	33.40	8.2	24.7	0.48
F19	18 Aug 2022	11	14.61	89.66	8.7	33.39	8.2	24.8	0.50
F19	18 Aug 2022	12	14.33	89.43	8.7	33.40	8.2	24.9	0.50
F19	18 Aug 2022	13	14.15	89.19	8.7	33.41	8.2	24.9	0.55
F19	18 Aug 2022	14	14.11	89.15	8.6	33.41	8.2	24.9	0.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	18 Aug 2022	15	13.98	88.88	8.6	33.41	8.2	25.0	0.67
F19	18 Aug 2022	16	13.86	88.57	8.5	33.42	8.2	25.0	0.84
F19	18 Aug 2022	17	13.77	87.31	8.5	33.42	8.2	25.0	1.04
F19	18 Aug 2022	18	13.66	86.82	8.5	33.43	8.2	25.0	1.33
F19	18 Aug 2022	19	13.61	86.68	8.5	33.43	8.2	25.1	1.59
F19	18 Aug 2022	20	13.61	86.35	8.5	33.44	8.2	25.1	1.87
F19	18 Aug 2022	21	13.52	85.64	8.4	33.44	8.2	25.1	2.27
F19	18 Aug 2022	22	13.51	85.24	8.4	33.44	8.1	25.1	2.62
F19	18 Aug 2022	23	13.37	84.79	8.3	33.45	8.1	25.1	3.13
F19	18 Aug 2022	24	13.34	83.57	8.2	33.46	8.1	25.1	4.18
F19	18 Aug 2022	25	13.23	81.87	8.0	33.47	8.1	25.2	5.29
F19	18 Aug 2022	26	13.16	82.49	7.7	33.47	8.1	25.2	6.23
F19	18 Aug 2022	27	12.96	83.94	7.2	33.48	8.1	25.2	5.78
F19	18 Aug 2022	28	12.93	85.84	7.0	33.48	8.0	25.2	5.04
F19	18 Aug 2022	29	12.84	86.49	6.9	33.48	8.0	25.2	4.59
F19	18 Aug 2022	30	12.77	87.14	6.8	33.48	8.0	25.3	4.28
F19	18 Aug 2022	31	12.62	88.60	6.7	33.46	8.0	25.3	3.42
F19	18 Aug 2022	32	12.64	89.24	6.6	33.46	8.0	25.3	2.91
F19	18 Aug 2022	33	12.53	89.20	6.4	33.48	8.0	25.3	2.70
F19	18 Aug 2022	34	12.41	90.01	6.3	33.49	8.0	25.3	2.17
F19	18 Aug 2022	35	12.31	90.87	6.1	33.49	8.0	25.4	1.79
F19	18 Aug 2022	36	12.14	91.45	6.0	33.50	8.0	25.4	1.32
F19	18 Aug 2022	37	12.10	91.47	5.9	33.50	7.9	25.4	1.25
F19	18 Aug 2022	38	11.98	91.63	5.8	33.50	7.9	25.4	1.09
F19	18 Aug 2022	39	11.93	91.84	5.7	33.51	7.9	25.4	1.04
F19	18 Aug 2022	40	11.92	91.95	5.6	33.51	7.9	25.4	1.01
F19	18 Aug 2022	41	11.85	92.08	5.5	33.51	7.9	25.5	0.89
F19	18 Aug 2022	42	11.84	92.00	5.5	33.51	7.9	25.5	0.87
F19	18 Aug 2022	43	11.79	92.02	5.4	33.52	7.9	25.5	0.86
F19	18 Aug 2022	44	11.76	92.10	5.4	33.52	7.9	25.5	0.85
F19	18 Aug 2022	45	11.63	92.19	5.3	33.54	7.9	25.5	0.83
F19	18 Aug 2022	46	11.59	92.17	5.2	33.54	7.9	25.5	0.81
F19	18 Aug 2022	47	11.54	92.18	5.1	33.55	7.9	25.5	0.75
F19	18 Aug 2022	48	11.49	92.17	5.1	33.55	7.9	25.6	0.74
F19	18 Aug 2022	49	11.46	92.20	5.0	33.55	7.9	25.6	0.72
F19	18 Aug 2022	50	11.39	92.25	4.9	33.56	7.8	25.6	0.66
F19	18 Aug 2022	51	11.33	92.29	4.9	33.57	7.8	25.6	0.60
F19	18 Aug 2022	52	11.28	92.33	4.9	33.57	7.8	25.6	0.51
F19	18 Aug 2022	53	11.22	92.37	4.9	33.58	7.8	25.6	0.50
F19	18 Aug 2022	54	11.15	92.44	4.9	33.59	7.8	25.6	0.46
F19	18 Aug 2022	55	11.13	92.42	4.9	33.59	7.8	25.7	0.40
F19	18 Aug 2022	56	11.08	92.32	4.8	33.59	7.8	25.7	0.37
F19	18 Aug 2022	57	11.07	92.34	4.8	33.59	7.8	25.7	0.37
F19	18 Aug 2022	58	11.06	92.32	4.8	33.59	7.8	25.7	0.34
F19	18 Aug 2022	59	11.04	92.26	4.7	33.60	7.8	25.7	0.33
F19	18 Aug 2022	60	11.03	92.20	4.7	33.60	7.8	25.7	0.33
F19	18 Aug 2022	61	11.02	92.07	4.7	33.60	7.8	25.7	0.32
F19	18 Aug 2022	62	10.99	92.01	4.7	33.60	7.8	25.7	0.30
F19	18 Aug 2022	63	10.99	92.07	4.6	33.60	7.8	25.7	0.30
F19	18 Aug 2022	64	10.96	92.06	4.6	33.60	7.8	25.7	0.29
F19	18 Aug 2022	65	10.96	92.02	4.6	33.61	7.8	25.7	0.28
F19	18 Aug 2022	66	10.95	91.95	4.6	33.61	7.8	25.7	0.30
F19	18 Aug 2022	67	10.95	91.97	4.6	33.61	7.8	25.7	0.28
F19	18 Aug 2022	68	10.94	92.00	4.6	33.61	7.8	25.7	0.27
F19	18 Aug 2022	69	10.94	92.06	4.6	33.61	7.8	25.7	0.26
F19	18 Aug 2022	70	10.89	91.95	4.5	33.62	7.8	25.7	0.26
F19	18 Aug 2022	71	10.86	91.84	4.5	33.62	7.8	25.7	0.24
F19	18 Aug 2022	72	10.82	91.74	4.4	33.64	7.8	25.7	0.23
F19	18 Aug 2022	73	10.77	91.68	4.3	33.66	7.8	25.8	0.22
F19	18 Aug 2022	74	10.75	90.50	4.3	33.67	7.8	25.8	0.23
F19	18 Aug 2022	75	10.73	89.94	4.3	33.68	7.8	25.8	0.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F19	18 Aug 2022	76	10.71	89.66	4.2	33.69	7.8	25.8	0.22
F19	18 Aug 2022	77	10.71	89.70	4.2	33.69	7.8	25.8	0.21
F19	18 Aug 2022	78	10.69	89.82	4.2	33.69	7.8	25.8	0.22
F19	18 Aug 2022	79	10.66	89.73	4.1	33.69	7.8	25.8	0.21
F19	18 Aug 2022	80	10.66	89.46	4.2	33.70	7.8	25.8	0.21
F19	18 Aug 2022	81	10.61	89.42	4.2	33.72	7.8	25.8	0.21
F19	18 Aug 2022	82	10.60	89.39	4.1	33.72	7.8	25.9	0.21
F19	18 Aug 2022	83	10.60	89.21	4.2	33.72	7.8	25.9	0.21
F20	18 Aug 2022	1	23.55	86.68	7.6	33.62	8.2	22.7	0.41
F20	18 Aug 2022	2	23.56	86.72	7.6	33.62	8.2	22.7	0.41
F20	18 Aug 2022	3	23.50	86.89	7.6	33.61	8.2	22.7	0.40
F20	18 Aug 2022	4	23.24	86.99	7.6	33.61	8.2	22.8	0.45
F20	18 Aug 2022	5	22.92	87.45	7.7	33.59	8.2	22.9	0.47
F20	18 Aug 2022	6	22.03	87.54	7.8	33.53	8.2	23.1	0.49
F20	18 Aug 2022	7	20.63	86.53	8.2	33.50	8.2	23.5	0.55
F20	18 Aug 2022	8	20.09	85.95	7.9	33.48	8.2	23.6	0.61
F20	18 Aug 2022	9	16.73	87.96	8.2	33.41	8.2	24.4	0.53
F20	18 Aug 2022	10	15.51	88.64	8.6	33.41	8.2	24.6	0.49
F20	18 Aug 2022	11	15.39	89.27	8.6	33.41	8.2	24.7	0.51
F20	18 Aug 2022	12	15.03	89.37	8.6	33.40	8.2	24.7	0.54
F20	18 Aug 2022	13	14.50	89.60	8.6	33.38	8.2	24.8	0.53
F20	18 Aug 2022	14	14.17	89.32	8.6	33.40	8.2	24.9	0.58
F20	18 Aug 2022	15	14.07	89.01	8.5	33.39	8.2	24.9	0.63
F20	18 Aug 2022	16	13.85	88.72	8.4	33.41	8.2	25.0	0.73
F20	18 Aug 2022	17	13.67	87.75	8.3	33.41	8.2	25.0	1.01
F20	18 Aug 2022	18	13.40	85.08	8.3	33.42	8.2	25.1	1.80
F20	18 Aug 2022	19	13.30	83.05	8.3	33.43	8.2	25.1	2.88
F20	18 Aug 2022	20	13.24	81.72	8.1	33.44	8.1	25.1	4.33
F20	18 Aug 2022	21	13.20	80.92	7.9	33.45	8.1	25.2	5.53
F20	18 Aug 2022	22	13.11	80.19	7.6	33.47	8.1	25.2	7.09
F20	18 Aug 2022	23	12.95	79.72	7.4	33.47	8.1	25.2	8.41
F20	18 Aug 2022	24	12.92	81.24	7.2	33.48	8.1	25.2	8.99
F20	18 Aug 2022	25	12.65	83.63	6.7	33.48	8.0	25.3	8.26
F20	18 Aug 2022	26	12.47	87.06	6.3	33.48	8.0	25.3	5.18
F20	18 Aug 2022	27	12.44	89.99	6.2	33.49	8.0	25.3	3.15
F20	18 Aug 2022	28	12.37	90.60	6.3	33.49	8.0	25.3	2.29
F20	18 Aug 2022	29	12.31	90.82	6.3	33.49	8.0	25.4	1.78
F20	18 Aug 2022	30	12.25	91.07	6.2	33.50	8.0	25.4	1.58
F20	18 Aug 2022	31	12.21	91.20	6.1	33.50	8.0	25.4	1.83
F20	18 Aug 2022	32	12.21	91.09	6.1	33.50	8.0	25.4	1.49
F20	18 Aug 2022	33	12.17	91.20	6.1	33.50	8.0	25.4	1.38
F20	18 Aug 2022	34	12.11	91.39	6.0	33.50	8.0	25.4	1.28
F20	18 Aug 2022	35	12.06	91.59	5.9	33.51	8.0	25.4	1.24
F20	18 Aug 2022	36	12.01	91.62	5.8	33.51	8.0	25.4	1.21
F20	18 Aug 2022	37	11.95	91.72	5.7	33.52	7.9	25.4	1.10
F20	18 Aug 2022	38	11.90	91.91	5.7	33.52	7.9	25.5	1.04
F20	18 Aug 2022	39	11.86	91.99	5.6	33.52	7.9	25.5	1.04
F20	18 Aug 2022	40	11.85	91.96	5.6	33.52	7.9	25.5	0.92
F20	18 Aug 2022	41	11.83	92.06	5.6	33.52	7.9	25.5	0.88
F20	18 Aug 2022	42	11.78	91.99	5.5	33.52	7.9	25.5	0.84
F20	18 Aug 2022	43	11.75	92.10	5.5	33.52	7.9	25.5	0.80
F20	18 Aug 2022	44	11.73	92.08	5.5	33.52	7.9	25.5	0.83
F20	18 Aug 2022	45	11.68	92.22	5.4	33.53	7.9	25.5	0.79
F20	18 Aug 2022	46	11.69	92.26	5.4	33.53	7.9	25.5	0.74
F20	18 Aug 2022	47	11.65	92.26	5.3	33.53	7.9	25.5	0.77
F20	18 Aug 2022	48	11.65	92.26	5.3	33.53	7.9	25.5	0.75
F20	18 Aug 2022	49	11.59	92.11	5.3	33.54	7.9	25.5	0.70
F20	18 Aug 2022	50	11.51	92.30	5.2	33.55	7.9	25.6	0.65
F20	18 Aug 2022	51	11.48	92.30	5.1	33.55	7.9	25.6	0.61
F20	18 Aug 2022	52	11.41	92.40	5.0	33.56	7.9	25.6	0.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F20	18 Aug 2022	53	11.35	92.34	4.9	33.56	7.9	25.6	0.54
F20	18 Aug 2022	54	11.23	92.21	4.8	33.59	7.8	25.6	0.53
F20	18 Aug 2022	55	11.18	91.91	4.7	33.59	7.8	25.6	0.46
F20	18 Aug 2022	56	11.12	91.79	4.6	33.60	7.8	25.7	0.43
F20	18 Aug 2022	57	11.09	91.71	4.6	33.60	7.8	25.7	0.40
F20	18 Aug 2022	58	11.08	91.62	4.6	33.61	7.8	25.7	0.35
F20	18 Aug 2022	59	11.05	91.56	4.5	33.61	7.8	25.7	0.36
F20	18 Aug 2022	60	11.02	91.53	4.5	33.61	7.8	25.7	0.36
F20	18 Aug 2022	61	10.98	91.27	4.5	33.62	7.8	25.7	0.35
F20	18 Aug 2022	62	10.93	91.05	4.4	33.62	7.8	25.7	0.35
F20	18 Aug 2022	63	10.92	90.86	4.4	33.62	7.8	25.7	0.33
F20	18 Aug 2022	64	10.87	90.51	4.3	33.63	7.8	25.7	0.27
F20	18 Aug 2022	65	10.85	90.43	4.3	33.63	7.8	25.7	0.27
F20	18 Aug 2022	66	10.84	90.29	4.3	33.63	7.8	25.7	0.26
F20	18 Aug 2022	67	10.84	90.28	4.2	33.63	7.8	25.7	0.24
F20	18 Aug 2022	68	10.85	90.61	4.3	33.64	7.8	25.7	0.24
F20	18 Aug 2022	69	10.85	90.84	4.3	33.65	7.8	25.7	0.24
F20	18 Aug 2022	70	10.85	90.84	4.3	33.65	7.8	25.8	0.26
F20	18 Aug 2022	71	10.82	90.92	4.3	33.66	7.8	25.8	0.24
F20	18 Aug 2022	72	10.73	90.35	4.2	33.67	7.8	25.8	0.23
F20	18 Aug 2022	73	10.68	89.95	4.1	33.67	7.8	25.8	0.22
F20	18 Aug 2022	74	10.66	89.48	4.1	33.67	7.8	25.8	0.20
F20	18 Aug 2022	75	10.66	89.37	4.1	33.67	7.8	25.8	0.21
F20	18 Aug 2022	76	10.63	89.78	4.1	33.70	7.8	25.8	0.21
F20	18 Aug 2022	77	10.61	90.03	4.1	33.72	7.8	25.8	0.21
F20	18 Aug 2022	78	10.60	89.79	4.0	33.72	7.8	25.9	0.20
F20	18 Aug 2022	79	10.59	88.97	4.0	33.74	7.8	25.9	0.21
F20	18 Aug 2022	80	10.56	89.05	4.0	33.76	7.8	25.9	0.20
F20	18 Aug 2022	81	10.56	89.10	4.0	33.75	7.8	25.9	0.21
F20	18 Aug 2022	82	10.56	89.08	4.0	33.76	7.8	25.9	0.20
F21	18 Aug 2022	1	23.66	87.22	7.6	33.62	8.2	22.7	0.43
F21	18 Aug 2022	2	23.60	87.33	7.6	33.62	8.2	22.7	0.44
F21	18 Aug 2022	3	23.47	87.32	7.6	33.62	8.2	22.8	0.45
F21	18 Aug 2022	4	23.30	87.44	7.6	33.60	8.2	22.8	0.47
F21	18 Aug 2022	5	22.82	87.73	7.8	33.59	8.2	22.9	0.47
F21	18 Aug 2022	6	22.76	87.88	7.9	33.58	8.2	22.9	0.50
F21	18 Aug 2022	7	22.31	87.32	7.8	33.56	8.2	23.0	0.54
F21	18 Aug 2022	8	21.14	86.82	8.2	33.48	8.2	23.3	0.57
F21	18 Aug 2022	9	20.05	85.79	8.2	33.46	8.2	23.6	0.61
F21	18 Aug 2022	10	18.22	85.60	8.4	33.39	8.2	24.0	0.63
F21	18 Aug 2022	11	16.97	87.28	8.7	33.42	8.2	24.3	0.58
F21	18 Aug 2022	12	16.53	88.58	8.7	33.40	8.2	24.4	0.52
F21	18 Aug 2022	13	15.67	88.89	8.6	33.40	8.2	24.6	0.54
F21	18 Aug 2022	14	15.11	89.35	8.6	33.41	8.2	24.7	0.60
F21	18 Aug 2022	15	14.97	89.37	8.6	33.42	8.2	24.8	0.68
F21	18 Aug 2022	16	14.77	89.36	8.6	33.42	8.2	24.8	0.75
F21	18 Aug 2022	17	14.61	89.34	8.6	33.41	8.2	24.8	0.72
F21	18 Aug 2022	18	14.37	89.20	8.8	33.42	8.2	24.9	0.74
F21	18 Aug 2022	19	14.13	89.20	8.7	33.41	8.2	24.9	0.79
F21	18 Aug 2022	20	13.97	88.96	8.5	33.42	8.2	25.0	0.89
F21	18 Aug 2022	21	13.80	88.70	8.4	33.42	8.2	25.0	0.97
F21	18 Aug 2022	22	13.66	88.20	8.3	33.43	8.1	25.0	1.20
F21	18 Aug 2022	23	13.49	87.34	8.3	33.43	8.1	25.1	1.66
F21	18 Aug 2022	24	13.29	85.79	8.2	33.43	8.1	25.1	2.78
F21	18 Aug 2022	25	13.04	83.44	8.2	33.43	8.1	25.2	4.51
F21	18 Aug 2022	26	12.91	82.66	8.1	33.43	8.1	25.2	6.34
F21	18 Aug 2022	27	12.75	82.85	7.8	33.44	8.1	25.2	6.82
F21	18 Aug 2022	28	12.72	83.56	7.8	33.44	8.1	25.2	6.69
F21	18 Aug 2022	29	12.70	83.70	7.7	33.44	8.1	25.2	6.85
F21	18 Aug 2022	30	12.62	83.90	7.5	33.45	8.1	25.3	7.07

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F21	18 Aug 2022	31	12.59	83.95	7.3	33.46	8.1	25.3	6.75
F21	18 Aug 2022	32	12.55	84.75	6.9	33.48	8.0	25.3	6.22
F21	18 Aug 2022	33	12.46	85.80	6.5	33.49	8.0	25.3	5.82
F21	18 Aug 2022	34	12.36	88.31	6.3	33.49	8.0	25.3	4.25
F21	18 Aug 2022	35	12.30	89.55	6.1	33.49	8.0	25.4	2.88
F21	18 Aug 2022	36	12.25	90.49	6.0	33.49	8.0	25.4	2.13
F21	18 Aug 2022	37	12.24	90.89	6.0	33.49	8.0	25.4	1.73
F21	18 Aug 2022	38	12.06	91.39	5.9	33.49	8.0	25.4	1.58
F21	18 Aug 2022	39	11.91	91.67	5.8	33.51	7.9	25.4	1.33
F21	18 Aug 2022	40	11.83	92.00	5.6	33.51	7.9	25.5	1.08
F21	18 Aug 2022	41	11.75	92.23	5.5	33.52	7.9	25.5	0.91
F21	18 Aug 2022	42	11.73	92.22	5.4	33.52	7.9	25.5	1.12
F21	18 Aug 2022	43	11.72	92.20	5.3	33.52	7.9	25.5	0.85
F21	18 Aug 2022	44	11.72	92.23	5.3	33.53	7.9	25.5	0.75
F21	18 Aug 2022	45	11.68	92.19	5.2	33.53	7.9	25.5	0.79
F21	18 Aug 2022	46	11.63	92.23	5.1	33.53	7.9	25.5	0.73
F21	18 Aug 2022	47	11.58	92.26	5.0	33.54	7.9	25.5	0.76
F21	18 Aug 2022	48	11.51	92.31	5.0	33.55	7.9	25.6	0.61
F21	18 Aug 2022	49	11.44	92.28	5.0	33.56	7.9	25.6	0.57
F21	18 Aug 2022	50	11.39	92.12	4.9	33.56	7.8	25.6	0.55
F21	18 Aug 2022	51	11.30	92.20	4.8	33.58	7.8	25.6	0.51
F21	18 Aug 2022	52	11.20	92.08	4.8	33.59	7.8	25.6	0.49
F21	18 Aug 2022	53	11.15	91.88	4.7	33.60	7.8	25.7	0.45
F21	18 Aug 2022	54	11.12	91.53	4.6	33.60	7.8	25.7	0.41
F21	18 Aug 2022	55	11.08	91.36	4.6	33.61	7.8	25.7	0.41
F21	18 Aug 2022	56	11.08	91.25	4.6	33.61	7.8	25.7	0.38
F21	18 Aug 2022	57	11.07	91.01	4.6	33.61	7.8	25.7	0.37
F21	18 Aug 2022	58	11.05	90.74	4.6	33.62	7.8	25.7	0.39
F21	18 Aug 2022	59	11.02	90.28	4.5	33.62	7.8	25.7	0.37
F21	18 Aug 2022	60	11.01	90.80	4.5	33.62	7.8	25.7	0.38
F21	18 Aug 2022	61	10.96	91.22	4.5	33.63	7.8	25.7	0.38
F21	18 Aug 2022	62	10.95	91.12	4.5	33.63	7.8	25.7	0.32
F21	18 Aug 2022	63	10.93	91.12	4.4	33.64	7.8	25.7	0.31
F21	18 Aug 2022	64	10.93	91.10	4.4	33.64	7.8	25.7	0.31
F21	18 Aug 2022	65	10.93	90.60	4.4	33.64	7.8	25.7	0.30
F21	18 Aug 2022	66	10.90	89.32	4.4	33.65	7.8	25.7	0.31
F21	18 Aug 2022	67	10.89	88.10	4.3	33.65	7.8	25.7	0.31
F21	18 Aug 2022	68	10.86	87.80	4.3	33.65	7.8	25.8	0.34
F21	18 Aug 2022	69	10.86	87.90	4.3	33.65	7.8	25.8	0.31
F21	18 Aug 2022	70	10.85	87.81	4.3	33.66	7.8	25.8	0.31
F21	18 Aug 2022	71	10.84	87.81	4.2	33.66	7.8	25.8	0.30
F21	18 Aug 2022	72	10.83	88.20	4.2	33.66	7.8	25.8	0.29
F21	18 Aug 2022	73	10.80	88.27	4.2	33.67	7.8	25.8	0.29
F21	18 Aug 2022	74	10.78	88.42	4.2	33.67	7.8	25.8	0.28
F21	18 Aug 2022	75	10.78	88.68	4.2	33.67	7.8	25.8	0.26
F21	18 Aug 2022	76	10.77	88.74	4.2	33.67	7.8	25.8	0.26
F21	18 Aug 2022	77	10.74	88.41	4.1	33.68	7.8	25.8	0.25
F21	18 Aug 2022	78	10.73	87.79	4.1	33.69	7.8	25.8	0.25
F21	18 Aug 2022	79	10.71	87.54	4.1	33.69	7.8	25.8	0.25
F21	18 Aug 2022	80	10.70	87.36	4.0	33.69	7.8	25.8	0.24
F21	18 Aug 2022	81	10.68	87.12	4.0	33.70	7.8	25.8	0.25
F21	18 Aug 2022	82	10.68	87.05	4.0	33.70	7.8	25.8	0.26
F21	18 Aug 2022	83	10.66	87.06	4.0	33.71	7.8	25.8	0.24
F22	18 Aug 2022	1	23.63	87.49	7.5	33.63	8.2	22.7	0.41
F22	18 Aug 2022	2	23.63	87.52	7.5	33.63	8.2	22.7	0.42
F22	18 Aug 2022	3	23.59	87.57	7.4	33.63	8.2	22.7	0.44
F22	18 Aug 2022	4	23.16	87.78	7.5	33.60	8.2	22.8	0.47
F22	18 Aug 2022	5	22.72	87.78	7.8	33.59	8.2	22.9	0.49
F22	18 Aug 2022	6	22.31	87.78	7.8	33.56	8.2	23.0	0.50
F22	18 Aug 2022	7	21.61	87.04	7.8	33.52	8.2	23.2	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F22	18 Aug 2022	8	19.18	86.09	8.1	33.47	8.2	23.8	0.59
F22	18 Aug 2022	9	17.63	85.86	8.6	33.45	8.2	24.2	0.55
F22	18 Aug 2022	10	16.67	87.37	8.8	33.41	8.2	24.4	0.49
F22	18 Aug 2022	11	15.97	88.20	8.9	33.41	8.2	24.5	0.47
F22	18 Aug 2022	12	15.85	88.85	8.7	33.41	8.2	24.6	0.47
F22	18 Aug 2022	13	15.06	89.18	8.5	33.42	8.2	24.7	0.53
F22	18 Aug 2022	14	14.84	89.31	8.4	33.42	8.2	24.8	0.62
F22	18 Aug 2022	15	14.65	89.51	8.5	33.42	8.2	24.8	0.68
F22	18 Aug 2022	16	14.51	89.35	8.6	33.42	8.2	24.9	0.74
F22	18 Aug 2022	17	14.31	89.24	8.6	33.42	8.2	24.9	0.77
F22	18 Aug 2022	18	13.98	88.71	8.5	33.42	8.2	25.0	0.87
F22	18 Aug 2022	19	13.80	88.57	8.5	33.42	8.2	25.0	0.98
F22	18 Aug 2022	20	13.70	88.24	8.5	33.42	8.2	25.0	1.17
F22	18 Aug 2022	21	13.63	88.09	8.4	33.43	8.2	25.0	1.32
F22	18 Aug 2022	22	13.25	87.23	8.2	33.42	8.1	25.1	2.51
F22	18 Aug 2022	23	12.90	83.15	8.2	33.43	8.1	25.2	5.27
F22	18 Aug 2022	24	12.82	81.51	8.1	33.43	8.1	25.2	7.72
F22	18 Aug 2022	25	12.76	80.74	7.9	33.44	8.1	25.2	9.09
F22	18 Aug 2022	26	12.67	81.70	7.8	33.44	8.1	25.2	9.13
F22	18 Aug 2022	27	12.56	84.24	7.5	33.45	8.1	25.3	7.57
F22	18 Aug 2022	28	12.46	86.19	7.1	33.47	8.0	25.3	5.74
F22	18 Aug 2022	29	12.44	86.53	6.8	33.47	8.0	25.3	5.49
F22	18 Aug 2022	30	12.29	88.58	6.4	33.49	8.0	25.4	4.55
F22	18 Aug 2022	31	12.19	89.18	6.1	33.49	8.0	25.4	3.05
F22	18 Aug 2022	32	12.08	90.96	6.0	33.50	8.0	25.4	1.89
F22	18 Aug 2022	33	12.01	91.79	5.9	33.50	8.0	25.4	1.42
F22	18 Aug 2022	34	11.85	92.04	5.8	33.51	7.9	25.5	1.22
F22	18 Aug 2022	35	11.81	91.94	5.6	33.52	7.9	25.5	1.02
F22	18 Aug 2022	36	11.79	92.13	5.5	33.52	7.9	25.5	0.84
F22	18 Aug 2022	37	11.75	92.14	5.3	33.53	7.9	25.5	0.90
F22	18 Aug 2022	38	11.74	92.07	5.2	33.53	7.9	25.5	0.72
F22	18 Aug 2022	39	11.68	92.04	5.0	33.54	7.9	25.5	0.71
F22	18 Aug 2022	40	11.67	91.97	5.0	33.54	7.9	25.5	0.66
F22	18 Aug 2022	41	11.67	91.90	5.0	33.54	7.9	25.5	0.73
F22	18 Aug 2022	42	11.65	91.94	5.0	33.54	7.9	25.5	0.66
F22	18 Aug 2022	43	11.51	92.05	5.0	33.55	7.9	25.6	0.63
F22	18 Aug 2022	44	11.39	92.29	5.0	33.57	7.9	25.6	0.60
F22	18 Aug 2022	45	11.37	92.38	5.0	33.57	7.8	25.6	0.57
F22	18 Aug 2022	46	11.32	92.40	4.9	33.57	7.8	25.6	0.57
F22	18 Aug 2022	47	11.32	92.41	4.9	33.58	7.8	25.6	0.58
F22	18 Aug 2022	48	11.30	92.25	4.9	33.58	7.8	25.6	0.55
F22	18 Aug 2022	49	11.28	92.20	4.9	33.58	7.8	25.6	0.51
F22	18 Aug 2022	50	11.23	92.12	4.8	33.59	7.8	25.6	0.50
F22	18 Aug 2022	51	11.18	91.92	4.7	33.60	7.8	25.6	0.48
F22	18 Aug 2022	52	11.17	91.82	4.7	33.60	7.8	25.7	0.44
F22	18 Aug 2022	53	11.17	91.59	4.7	33.60	7.8	25.7	0.44
F22	18 Aug 2022	54	11.17	91.23	4.6	33.60	7.8	25.7	0.43
F22	18 Aug 2022	55	11.16	90.79	4.6	33.60	7.8	25.7	0.46
F22	18 Aug 2022	56	11.16	90.72	4.6	33.60	7.8	25.7	0.47
F22	18 Aug 2022	57	11.13	91.00	4.6	33.60	7.8	25.7	0.46
F22	18 Aug 2022	58	11.12	90.96	4.6	33.60	7.8	25.7	0.41
F22	18 Aug 2022	59	11.11	90.41	4.5	33.61	7.8	25.7	0.49
F22	18 Aug 2022	60	11.09	89.09	4.5	33.61	7.8	25.7	0.42
F22	18 Aug 2022	61	11.09	88.34	4.5	33.61	7.8	25.7	0.40
F22	18 Aug 2022	62	11.09	88.21	4.4	33.61	7.8	25.7	0.41
F22	18 Aug 2022	63	11.09	88.16	4.4	33.61	7.8	25.7	0.45
F22	18 Aug 2022	64	11.09	88.15	4.4	33.61	7.8	25.7	0.45
F22	18 Aug 2022	65	11.09	88.16	4.4	33.61	7.8	25.7	0.42
F22	18 Aug 2022	66	11.09	88.15	4.4	33.61	7.8	25.7	0.45
F22	18 Aug 2022	67	11.09	88.20	4.4	33.61	7.8	25.7	0.49
F22	18 Aug 2022	68	11.09	88.07	4.4	33.61	7.8	25.7	0.48

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F22	18 Aug 2022	69	11.09	88.09	4.4	33.61	7.8	25.7	0.44
F22	18 Aug 2022	70	11.09	88.09	4.4	33.61	7.8	25.7	0.41
F22	18 Aug 2022	71	11.09	88.06	4.4	33.61	7.8	25.7	0.41
F22	18 Aug 2022	72	11.09	87.99	4.4	33.61	7.8	25.7	0.46
F22	18 Aug 2022	73	11.09	87.95	4.4	33.61	7.8	25.7	0.40
F22	18 Aug 2022	74	11.09	87.91	4.4	33.61	7.8	25.7	0.43
F22	18 Aug 2022	75	11.09	87.95	4.4	33.61	7.8	25.7	0.42
F22	18 Aug 2022	76	11.05	87.96	4.4	33.61	7.8	25.7	0.44
F22	18 Aug 2022	77	10.98	87.63	4.3	33.62	7.8	25.7	0.39
F22	18 Aug 2022	78	10.92	87.34	4.3	33.63	7.8	25.7	0.34
F22	18 Aug 2022	79	10.92	87.30	4.3	33.63	7.8	25.7	0.33
F22	18 Aug 2022	80	10.87	87.15	4.2	33.64	7.8	25.7	0.32
F22	18 Aug 2022	81	10.84	86.76	4.2	33.65	7.8	25.8	0.37
F23	18 Aug 2022	1	23.78	88.52	7.4	33.64	8.2	22.7	0.41
F23	18 Aug 2022	2	23.72	88.53	7.4	33.64	8.2	22.7	0.42
F23	18 Aug 2022	3	23.59	88.38	7.5	33.63	8.2	22.7	0.45
F23	18 Aug 2022	4	23.33	88.17	7.5	33.61	8.2	22.8	0.47
F23	18 Aug 2022	5	22.77	88.48	7.6	33.57	8.2	22.9	0.47
F23	18 Aug 2022	6	21.63	88.38	8.0	33.53	8.2	23.2	0.48
F23	18 Aug 2022	7	21.00	87.97	8.2	33.52	8.2	23.4	0.52
F23	18 Aug 2022	8	20.28	87.47	8.2	33.46	8.2	23.5	0.54
F23	18 Aug 2022	9	19.00	86.40	8.4	33.47	8.2	23.9	0.59
F23	18 Aug 2022	10	17.96	85.44	8.4	33.40	8.2	24.1	0.61
F23	18 Aug 2022	11	16.16	87.11	8.7	33.39	8.2	24.5	0.55
F23	18 Aug 2022	12	15.29	88.92	8.8	33.41	8.2	24.7	0.50
F23	18 Aug 2022	13	15.12	88.95	8.6	33.39	8.2	24.7	0.53
F23	18 Aug 2022	14	14.33	88.93	8.5	33.42	8.2	24.9	0.67
F23	18 Aug 2022	15	14.31	88.81	8.4	33.42	8.2	24.9	0.79
F23	18 Aug 2022	16	14.10	88.45	8.3	33.43	8.1	24.9	1.02
F23	18 Aug 2022	17	13.91	87.82	8.4	33.42	8.1	25.0	1.22
F23	18 Aug 2022	18	13.53	87.41	8.5	33.41	8.1	25.1	1.55
F23	18 Aug 2022	19	13.49	86.54	8.4	33.42	8.1	25.1	1.92
F23	18 Aug 2022	20	13.28	86.07	8.3	33.42	8.1	25.1	2.26
F23	18 Aug 2022	21	13.24	86.02	8.2	33.43	8.1	25.1	2.78
F23	18 Aug 2022	22	13.23	85.83	8.2	33.43	8.1	25.1	3.06
F23	18 Aug 2022	23	13.20	85.76	8.1	33.44	8.1	25.1	3.32
F23	18 Aug 2022	24	13.22	85.54	8.1	33.44	8.1	25.1	3.47
F23	18 Aug 2022	25	13.04	85.37	7.9	33.43	8.1	25.2	4.33
F23	18 Aug 2022	26	12.70	83.17	7.8	33.43	8.1	25.2	6.04
F23	18 Aug 2022	27	12.64	83.80	7.6	33.43	8.1	25.2	6.31
F23	18 Aug 2022	28	12.58	85.35	7.5	33.44	8.1	25.3	6.35
F23	18 Aug 2022	29	12.56	85.92	7.3	33.45	8.0	25.3	5.55
F23	18 Aug 2022	30	12.49	86.80	7.1	33.47	8.0	25.3	4.95
F23	18 Aug 2022	31	12.42	87.36	6.9	33.48	8.0	25.3	4.61
F23	18 Aug 2022	32	12.32	87.55	6.7	33.49	8.0	25.4	4.21
F23	18 Aug 2022	33	12.24	88.40	6.5	33.50	8.0	25.4	3.54
F23	18 Aug 2022	34	12.22	89.21	6.3	33.50	8.0	25.4	3.15
F23	18 Aug 2022	35	12.12	89.46	6.1	33.51	8.0	25.4	2.48
F23	18 Aug 2022	36	12.03	90.33	5.9	33.51	7.9	25.4	1.93
F23	18 Aug 2022	37	11.98	91.22	5.8	33.51	7.9	25.4	1.53
F23	18 Aug 2022	38	11.95	91.16	5.8	33.51	7.9	25.4	1.34
F23	18 Aug 2022	39	11.86	91.34	5.6	33.52	7.9	25.5	1.41
F23	18 Aug 2022	40	11.84	91.42	5.5	33.53	7.9	25.5	1.15
F23	18 Aug 2022	41	11.78	91.68	5.5	33.52	7.9	25.5	1.12
F23	18 Aug 2022	42	11.73	92.08	5.5	33.52	7.9	25.5	0.93
F23	18 Aug 2022	43	11.61	92.26	5.3	33.53	7.9	25.5	0.81
F23	18 Aug 2022	44	11.53	92.33	5.2	33.55	7.9	25.5	0.75
F23	18 Aug 2022	45	11.52	92.41	5.2	33.55	7.9	25.5	0.71
F23	18 Aug 2022	46	11.48	92.44	5.2	33.55	7.9	25.6	0.68
F23	18 Aug 2022	47	11.46	92.47	5.2	33.55	7.9	25.6	0.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F23	18 Aug 2022	48	11.43	92.42	5.1	33.56	7.9	25.6	0.65
F23	18 Aug 2022	49	11.41	92.50	5.1	33.56	7.8	25.6	0.65
F23	18 Aug 2022	50	11.41	92.51	5.1	33.56	7.8	25.6	0.60
F23	18 Aug 2022	51	11.38	92.55	5.1	33.56	7.8	25.6	0.58
F23	18 Aug 2022	52	11.37	92.56	5.1	33.56	7.8	25.6	0.56
F23	18 Aug 2022	53	11.37	92.57	5.0	33.56	7.8	25.6	0.56
F23	18 Aug 2022	54	11.34	92.60	5.0	33.56	7.8	25.6	0.55
F23	18 Aug 2022	55	11.29	92.53	5.0	33.57	7.8	25.6	0.53
F23	18 Aug 2022	56	11.27	92.49	5.0	33.57	7.8	25.6	0.54
F23	18 Aug 2022	57	11.22	92.43	4.9	33.58	7.8	25.6	0.53
F23	18 Aug 2022	58	11.10	92.28	4.8	33.58	7.8	25.7	0.49
F23	18 Aug 2022	59	11.06	91.71	4.7	33.58	7.8	25.7	0.47
F23	18 Aug 2022	60	11.05	91.29	4.7	33.58	7.8	25.7	0.41
F23	18 Aug 2022	61	11.01	91.24	4.6	33.58	7.8	25.7	0.38
F23	18 Aug 2022	62	10.99	91.00	4.6	33.58	7.8	25.7	0.35
F23	18 Aug 2022	63	10.99	90.95	4.6	33.58	7.8	25.7	0.35
F23	18 Aug 2022	64	11.00	91.25	4.6	33.58	7.8	25.7	0.34
F23	18 Aug 2022	65	11.00	91.34	4.6	33.58	7.8	25.7	0.35
F23	18 Aug 2022	66	10.99	91.33	4.6	33.59	7.8	25.7	0.35
F23	18 Aug 2022	67	10.98	91.32	4.5	33.59	7.8	25.7	0.34
F23	18 Aug 2022	68	10.96	91.10	4.5	33.61	7.8	25.7	0.32
F23	18 Aug 2022	69	10.96	91.14	4.4	33.62	7.8	25.7	0.30
F23	18 Aug 2022	70	10.96	90.98	4.4	33.62	7.8	25.7	0.29
F23	18 Aug 2022	71	10.97	90.99	4.4	33.62	7.8	25.7	0.29
F23	18 Aug 2022	72	10.98	90.86	4.4	33.62	7.8	25.7	0.30
F23	18 Aug 2022	73	10.98	90.99	4.4	33.62	7.8	25.7	0.29
F23	18 Aug 2022	74	10.98	90.97	4.4	33.62	7.8	25.7	0.30
F23	18 Aug 2022	75	10.98	90.83	4.4	33.62	7.8	25.7	0.31
F23	18 Aug 2022	76	10.98	90.77	4.4	33.62	7.8	25.7	0.30
F23	18 Aug 2022	77	10.98	90.69	4.4	33.62	7.8	25.7	0.35
F23	18 Aug 2022	78	10.98	90.73	4.4	33.62	7.8	25.7	0.31
F23	18 Aug 2022	79	10.97	90.42	4.4	33.63	7.8	25.7	0.36
F23	18 Aug 2022	80	10.95	89.90	4.4	33.63	7.8	25.7	0.32
F23	18 Aug 2022	81	10.91	88.50	4.3	33.64	7.8	25.7	0.30
F24	18 Aug 2022	1	23.76	86.06	7.3	33.65	8.2	22.7	0.42
F24	18 Aug 2022	2	23.75	86.41	7.2	33.65	8.2	22.7	0.43
F24	18 Aug 2022	3	23.65	88.53	7.2	33.65	8.2	22.7	0.45
F24	18 Aug 2022	4	23.63	88.99	7.2	33.65	8.2	22.7	0.48
F24	18 Aug 2022	5	22.97	89.12	7.4	33.60	8.2	22.9	0.49
F24	18 Aug 2022	6	21.68	88.91	7.7	33.55	8.2	23.2	0.50
F24	18 Aug 2022	7	20.49	88.37	8.2	33.53	8.2	23.5	0.54
F24	18 Aug 2022	8	19.84	87.97	8.2	33.49	8.2	23.7	0.55
F24	18 Aug 2022	9	18.28	87.31	8.3	33.45	8.2	24.0	0.57
F24	18 Aug 2022	10	16.71	86.80	8.7	33.42	8.2	24.4	0.58
F24	18 Aug 2022	11	16.19	87.36	8.9	33.41	8.2	24.5	0.57
F24	18 Aug 2022	12	15.73	88.68	8.9	33.41	8.2	24.6	0.52
F24	18 Aug 2022	13	15.34	88.98	8.7	33.41	8.2	24.7	0.55
F24	18 Aug 2022	14	14.51	88.70	8.5	33.42	8.2	24.9	0.63
F24	18 Aug 2022	15	14.34	88.55	8.3	33.42	8.2	24.9	0.76
F24	18 Aug 2022	16	14.14	88.42	8.3	33.43	8.1	24.9	0.89
F24	18 Aug 2022	17	14.20	88.43	8.2	33.44	8.1	24.9	1.02
F24	18 Aug 2022	18	13.54	87.83	8.2	33.41	8.1	25.1	1.37
F24	18 Aug 2022	19	13.30	86.29	8.3	33.42	8.1	25.1	2.02
F24	18 Aug 2022	20	13.29	85.62	8.2	33.42	8.1	25.1	2.67
F24	18 Aug 2022	21	13.16	85.21	8.1	33.43	8.1	25.1	3.25
F24	18 Aug 2022	22	13.08	85.01	8.0	33.43	8.1	25.2	4.03
F24	18 Aug 2022	23	13.02	85.11	7.8	33.44	8.1	25.2	4.51
F24	18 Aug 2022	24	13.00	85.24	7.6	33.44	8.1	25.2	4.81
F24	18 Aug 2022	25	12.80	85.13	7.4	33.45	8.1	25.2	4.90
F24	18 Aug 2022	26	12.68	85.74	7.2	33.46	8.1	25.3	4.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F24	18 Aug 2022	27	12.69	86.34	7.2	33.45	8.0	25.3	4.68
F24	18 Aug 2022	28	12.55	86.58	7.1	33.45	8.0	25.3	4.53
F24	18 Aug 2022	29	12.56	86.80	7.1	33.46	8.0	25.3	4.56
F24	18 Aug 2022	30	12.49	87.01	7.0	33.46	8.0	25.3	3.89
F24	18 Aug 2022	31	12.43	87.33	6.9	33.46	8.0	25.3	3.99
F24	18 Aug 2022	32	12.42	87.81	6.8	33.47	8.0	25.3	3.75
F24	18 Aug 2022	33	12.24	88.88	6.5	33.48	8.0	25.4	3.24
F24	18 Aug 2022	34	12.06	90.05	6.2	33.48	8.0	25.4	2.34
F24	18 Aug 2022	35	12.01	91.18	6.0	33.49	8.0	25.4	1.66
F24	18 Aug 2022	36	11.94	91.40	5.9	33.51	7.9	25.4	1.52
F24	18 Aug 2022	37	11.90	91.19	5.8	33.52	7.9	25.5	1.45
F24	18 Aug 2022	38	11.89	91.28	5.7	33.52	7.9	25.5	1.40
F24	18 Aug 2022	39	11.77	91.42	5.5	33.53	7.9	25.5	1.26
F24	18 Aug 2022	40	11.74	91.83	5.4	33.53	7.9	25.5	1.14
F24	18 Aug 2022	41	11.71	91.76	5.4	33.53	7.9	25.5	1.04
F24	18 Aug 2022	42	11.69	91.96	5.3	33.53	7.9	25.5	0.93
F24	18 Aug 2022	43	11.63	92.10	5.3	33.54	7.9	25.5	0.83
F24	18 Aug 2022	44	11.55	92.34	5.2	33.54	7.9	25.5	0.80
F24	18 Aug 2022	45	11.53	92.36	5.2	33.55	7.9	25.5	0.68
F24	18 Aug 2022	46	11.50	92.45	5.2	33.55	7.9	25.6	0.70
F24	18 Aug 2022	47	11.47	92.29	5.2	33.56	7.9	25.6	0.76
F24	18 Aug 2022	48	11.48	92.26	5.2	33.55	7.9	25.6	0.80
F24	18 Aug 2022	49	11.45	92.26	5.1	33.56	7.9	25.6	0.75
F24	18 Aug 2022	50	11.43	92.36	5.1	33.56	7.9	25.6	0.70
F24	18 Aug 2022	51	11.42	92.40	5.1	33.56	7.9	25.6	0.69
F24	18 Aug 2022	52	11.36	92.41	5.1	33.56	7.9	25.6	0.65
F24	18 Aug 2022	53	11.35	92.38	5.1	33.57	7.8	25.6	0.64
F24	18 Aug 2022	54	11.33	92.52	5.1	33.57	7.8	25.6	0.60
F24	18 Aug 2022	55	11.32	92.42	5.1	33.57	7.8	25.6	0.58
F24	18 Aug 2022	56	11.31	92.59	5.1	33.57	7.8	25.6	0.52
F24	18 Aug 2022	57	11.30	92.55	5.1	33.57	7.8	25.6	0.52
F24	18 Aug 2022	58	11.25	92.54	5.1	33.57	7.8	25.6	0.52
F24	18 Aug 2022	59	11.20	92.56	5.1	33.58	7.8	25.6	0.49
F24	18 Aug 2022	60	11.21	92.65	5.1	33.58	7.8	25.6	0.48
F24	18 Aug 2022	61	11.19	92.65	5.0	33.58	7.8	25.6	0.47
F24	18 Aug 2022	62	11.18	92.64	5.0	33.58	7.8	25.6	0.47
F24	18 Aug 2022	63	11.16	92.64	5.0	33.58	7.8	25.6	0.47
F24	18 Aug 2022	64	11.15	92.60	5.0	33.59	7.8	25.6	0.48
F24	18 Aug 2022	65	11.14	92.51	5.0	33.59	7.8	25.6	0.47
F24	18 Aug 2022	66	11.14	92.58	5.0	33.59	7.8	25.6	0.48
F24	18 Aug 2022	67	11.11	92.55	4.9	33.59	7.8	25.7	0.47
F24	18 Aug 2022	68	11.06	92.56	4.9	33.60	7.8	25.7	0.47
F24	18 Aug 2022	69	11.05	92.49	4.8	33.60	7.8	25.7	0.44
F24	18 Aug 2022	70	11.03	92.43	4.8	33.61	7.8	25.7	0.42
F24	18 Aug 2022	71	11.03	92.16	4.8	33.61	7.8	25.7	0.44
F24	18 Aug 2022	72	11.02	91.61	4.7	33.61	7.8	25.7	0.38
F24	18 Aug 2022	73	11.02	91.08	4.6	33.61	7.8	25.7	0.36
F24	18 Aug 2022	74	11.02	90.92	4.6	33.62	7.8	25.7	0.38
F24	18 Aug 2022	75	11.02	90.09	4.5	33.62	7.8	25.7	0.34
F24	18 Aug 2022	76	11.02	89.48	4.5	33.62	7.8	25.7	0.33
F24	18 Aug 2022	77	11.01	88.93	4.4	33.62	7.8	25.7	0.33
F24	18 Aug 2022	78	11.01	88.09	4.4	33.62	7.8	25.7	0.35
F24	18 Aug 2022	79	10.99	87.53	4.3	33.62	7.8	25.7	0.35
F24	18 Aug 2022	80	10.99	87.07	4.3	33.62	7.8	25.7	0.34
F24	18 Aug 2022	81	10.98	86.79	4.3	33.62	7.8	25.7	0.34
F25	18 Aug 2022	1	23.70	89.04	7.3	33.65	8.2	22.7	0.40
F25	18 Aug 2022	2	23.67	88.69	7.3	33.65	8.2	22.7	0.39
F25	18 Aug 2022	3	23.52	88.85	7.2	33.64	8.2	22.8	0.39
F25	18 Aug 2022	4	22.85	88.79	7.4	33.64	8.2	22.9	0.41
F25	18 Aug 2022	5	21.77	88.96	7.7	33.60	8.2	23.2	0.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F25	18 Aug 2022	6	21.08	88.62	8.0	33.55	8.2	23.4	0.49
F25	18 Aug 2022	7	20.42	88.29	8.1	33.53	8.2	23.5	0.53
F25	18 Aug 2022	8	19.20	87.93	8.4	33.53	8.2	23.9	0.56
F25	18 Aug 2022	9	18.85	88.05	8.4	33.50	8.2	23.9	0.57
F25	18 Aug 2022	10	18.22	87.80	8.5	33.49	8.2	24.1	0.63
F25	18 Aug 2022	11	17.96	87.28	8.4	33.48	8.2	24.1	0.68
F25	18 Aug 2022	12	16.75	87.09	8.5	33.46	8.2	24.4	0.68
F25	18 Aug 2022	13	15.83	87.56	8.9	33.45	8.2	24.6	0.65
F25	18 Aug 2022	14	15.53	88.11	8.8	33.43	8.2	24.6	0.65
F25	18 Aug 2022	15	15.12	88.99	8.8	33.43	8.2	24.7	0.64
F25	18 Aug 2022	16	14.74	89.16	8.7	33.44	8.2	24.8	0.74
F25	18 Aug 2022	17	14.31	88.63	8.6	33.45	8.2	24.9	0.80
F25	18 Aug 2022	18	14.26	88.33	8.5	33.45	8.1	24.9	0.96
F25	18 Aug 2022	19	14.01	88.20	8.4	33.45	8.1	25.0	1.06
F25	18 Aug 2022	20	13.81	87.65	8.3	33.46	8.1	25.0	1.39
F25	18 Aug 2022	21	13.49	85.74	8.1	33.46	8.1	25.1	2.02
F25	18 Aug 2022	22	13.09	84.40	7.9	33.44	8.1	25.2	3.31
F25	18 Aug 2022	23	12.98	84.76	7.7	33.44	8.1	25.2	4.11
F25	18 Aug 2022	24	12.91	85.28	7.5	33.45	8.1	25.2	4.53
F25	18 Aug 2022	25	12.83	86.18	7.3	33.45	8.0	25.2	4.32
F25	18 Aug 2022	26	12.73	86.73	7.0	33.46	8.0	25.3	3.91
F25	18 Aug 2022	27	12.63	87.56	6.6	33.47	8.0	25.3	3.87
F25	18 Aug 2022	28	12.50	88.58	6.2	33.49	8.0	25.3	3.10
F25	18 Aug 2022	29	12.39	88.70	6.1	33.49	8.0	25.3	2.70
F25	18 Aug 2022	30	12.09	89.45	6.0	33.50	8.0	25.4	2.44
F25	18 Aug 2022	31	12.05	90.19	6.0	33.50	7.9	25.4	2.21
F25	18 Aug 2022	32	11.97	90.90	6.0	33.49	7.9	25.4	1.72
F25	18 Aug 2022	33	11.87	91.26	5.9	33.51	7.9	25.5	1.43
F25	18 Aug 2022	34	11.84	91.48	5.8	33.51	7.9	25.5	1.29
F25	18 Aug 2022	35	11.78	91.53	5.8	33.52	7.9	25.5	1.19
F25	18 Aug 2022	36	11.77	91.62	5.7	33.52	7.9	25.5	1.20
F25	18 Aug 2022	37	11.74	91.55	5.7	33.53	7.9	25.5	1.18
F25	18 Aug 2022	38	11.72	91.71	5.6	33.54	7.9	25.5	1.16
F25	18 Aug 2022	39	11.74	91.67	5.6	33.53	7.9	25.5	1.16
F25	18 Aug 2022	40	11.65	91.64	5.5	33.55	7.9	25.5	1.13
F25	18 Aug 2022	41	11.59	91.83	5.4	33.55	7.9	25.5	1.05
F25	18 Aug 2022	42	11.53	92.05	5.3	33.56	7.9	25.6	0.89
F25	18 Aug 2022	43	11.51	92.10	5.3	33.56	7.9	25.6	0.82
F25	18 Aug 2022	44	11.45	91.91	5.2	33.56	7.9	25.6	0.80
F25	18 Aug 2022	45	11.46	92.22	5.2	33.56	7.9	25.6	0.76
F25	18 Aug 2022	46	11.42	92.18	5.1	33.56	7.8	25.6	0.79
F25	18 Aug 2022	47	11.41	92.27	5.1	33.56	7.8	25.6	0.78
F25	18 Aug 2022	48	11.42	92.29	5.1	33.56	7.8	25.6	0.72
F25	18 Aug 2022	49	11.40	92.29	5.1	33.56	7.8	25.6	0.67
F25	18 Aug 2022	50	11.40	92.32	5.2	33.56	7.8	25.6	0.69
F25	18 Aug 2022	51	11.39	92.25	5.2	33.57	7.8	25.6	0.69
F25	18 Aug 2022	52	11.34	92.27	5.2	33.57	7.8	25.6	0.67
F25	18 Aug 2022	53	11.32	92.21	5.1	33.58	7.8	25.6	0.65
F25	18 Aug 2022	54	11.30	92.33	5.1	33.58	7.8	25.6	0.63
F25	18 Aug 2022	55	11.29	92.39	5.1	33.58	7.8	25.6	0.62
F25	18 Aug 2022	56	11.20	92.41	5.0	33.58	7.8	25.6	0.58
F25	18 Aug 2022	57	11.17	92.40	4.9	33.59	7.8	25.6	0.51
F25	18 Aug 2022	58	11.17	92.35	4.9	33.59	7.8	25.6	0.46
F25	18 Aug 2022	59	11.17	92.32	4.9	33.59	7.8	25.6	0.41
F25	18 Aug 2022	60	11.17	92.34	4.8	33.59	7.8	25.6	0.41
F25	18 Aug 2022	61	11.15	92.31	4.8	33.59	7.8	25.6	0.39
F25	18 Aug 2022	62	11.10	92.34	4.9	33.59	7.8	25.7	0.38
F25	18 Aug 2022	63	11.06	92.45	4.8	33.60	7.8	25.7	0.36
F25	18 Aug 2022	64	11.04	92.22	4.8	33.60	7.8	25.7	0.36
F25	18 Aug 2022	65	11.01	92.03	4.7	33.61	7.8	25.7	0.35
F25	18 Aug 2022	66	10.98	91.92	4.7	33.61	7.8	25.7	0.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F25	18 Aug 2022	67	10.97	91.52	4.6	33.62	7.8	25.7	0.35
F25	18 Aug 2022	68	10.97	91.47	4.6	33.62	7.8	25.7	0.36
F25	18 Aug 2022	69	10.95	90.71	4.5	33.63	7.8	25.7	0.32
F25	18 Aug 2022	70	10.93	89.78	4.4	33.63	7.8	25.7	0.33
F25	18 Aug 2022	71	10.93	89.39	4.4	33.63	7.8	25.7	0.33
F25	18 Aug 2022	72	10.92	89.10	4.4	33.63	7.8	25.7	0.33
F25	18 Aug 2022	73	10.92	89.13	4.4	33.63	7.8	25.7	0.31
F25	18 Aug 2022	74	10.92	89.01	4.4	33.63	7.8	25.7	0.30
F25	18 Aug 2022	75	10.91	89.02	4.4	33.63	7.8	25.7	0.30
F25	18 Aug 2022	76	10.90	88.97	4.4	33.63	7.8	25.7	0.29
F25	18 Aug 2022	77	10.90	88.82	4.4	33.63	7.8	25.7	0.30
F25	18 Aug 2022	78	10.90	88.81	4.4	33.63	7.8	25.7	0.30
F25	18 Aug 2022	79	10.89	88.78	4.3	33.63	7.8	25.7	0.35
F26	16 Aug 2022	1	23.67	88.73	7.3	33.64	8.2	22.7	0.33
F26	16 Aug 2022	2	23.56	89.06	7.3	33.63	8.2	22.7	0.34
F26	16 Aug 2022	3	23.28	89.48	7.3	33.61	8.2	22.8	0.35
F26	16 Aug 2022	4	22.75	89.44	7.4	33.59	8.2	22.9	0.35
F26	16 Aug 2022	5	22.28	89.43	7.6	33.57	8.2	23.1	0.34
F26	16 Aug 2022	6	21.52	89.20	7.8	33.55	8.2	23.3	0.34
F26	16 Aug 2022	7	20.86	88.97	8.0	33.55	8.2	23.4	0.34
F26	16 Aug 2022	8	20.67	88.68	8.0	33.55	8.2	23.5	0.35
F26	16 Aug 2022	9	20.14	88.55	8.0	33.51	8.2	23.6	0.35
F26	16 Aug 2022	10	18.98	88.44	8.3	33.50	8.2	23.9	0.38
F26	16 Aug 2022	11	18.11	88.19	8.6	33.50	8.2	24.1	0.40
F26	16 Aug 2022	12	17.86	88.31	8.8	33.49	8.2	24.2	0.40
F26	16 Aug 2022	13	17.71	88.49	8.8	33.48	8.2	24.2	0.42
F26	16 Aug 2022	14	17.33	88.54	8.9	33.47	8.2	24.3	0.44
F26	16 Aug 2022	15	16.97	88.66	9.0	33.46	8.2	24.3	0.47
F26	16 Aug 2022	16	16.61	88.78	9.1	33.45	8.2	24.4	0.46
F26	16 Aug 2022	17	16.45	89.05	9.0	33.44	8.2	24.4	0.46
F26	16 Aug 2022	18	15.98	89.33	9.0	33.43	8.2	24.5	0.47
F26	16 Aug 2022	19	15.51	89.62	9.0	33.42	8.2	24.6	0.48
F26	16 Aug 2022	20	15.34	89.44	9.0	33.42	8.2	24.7	0.55
F26	16 Aug 2022	21	15.31	89.20	9.0	33.42	8.2	24.7	0.58
F26	16 Aug 2022	22	15.22	89.15	9.0	33.42	8.2	24.7	0.60
F26	16 Aug 2022	23	15.05	89.35	9.0	33.43	8.2	24.7	0.62
F26	16 Aug 2022	24	14.90	89.29	8.9	33.42	8.2	24.8	0.63
F26	16 Aug 2022	25	14.22	88.68	8.8	33.40	8.2	24.9	0.83
F26	16 Aug 2022	26	13.87	85.67	8.8	33.41	8.2	25.0	1.41
F26	16 Aug 2022	27	13.64	82.31	8.8	33.42	8.2	25.0	2.39
F26	16 Aug 2022	28	13.39	79.50	8.7	33.45	8.2	25.1	3.95
F26	16 Aug 2022	29	13.18	77.53	8.3	33.47	8.1	25.2	6.63
F26	16 Aug 2022	30	13.07	82.42	7.9	33.47	8.1	25.2	7.80
F26	16 Aug 2022	31	12.76	86.95	7.2	33.48	8.1	25.3	5.98
F26	16 Aug 2022	32	12.54	88.35	6.8	33.47	8.0	25.3	4.01
F26	16 Aug 2022	33	12.40	89.27	6.5	33.48	8.0	25.3	2.70
F26	16 Aug 2022	34	12.32	89.73	6.3	33.49	8.0	25.4	2.31
F26	16 Aug 2022	35	12.25	89.83	6.2	33.49	8.0	25.4	2.13
F26	16 Aug 2022	36	12.19	89.70	6.2	33.50	8.0	25.4	2.11
F26	16 Aug 2022	37	12.14	89.84	6.1	33.51	8.0	25.4	2.17
F26	16 Aug 2022	38	12.11	89.85	6.0	33.51	8.0	25.4	2.19
F26	16 Aug 2022	39	12.07	90.06	6.0	33.51	8.0	25.4	2.21
F26	16 Aug 2022	40	11.95	90.20	5.8	33.52	8.0	25.5	2.10
F26	16 Aug 2022	41	11.92	90.41	5.8	33.53	7.9	25.5	1.92
F26	16 Aug 2022	42	11.88	90.53	5.7	33.53	7.9	25.5	2.12
F26	16 Aug 2022	43	11.78	90.77	5.6	33.54	7.9	25.5	1.87
F26	16 Aug 2022	44	11.73	90.97	5.5	33.55	7.9	25.5	1.65
F26	16 Aug 2022	45	11.70	91.10	5.5	33.55	7.9	25.5	1.57
F26	16 Aug 2022	46	11.61	91.26	5.4	33.55	7.9	25.5	1.48
F26	16 Aug 2022	47	11.49	91.47	5.3	33.56	7.9	25.6	1.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F26	16 Aug 2022	48	11.42	91.77	5.2	33.57	7.9	25.6	1.19
F26	16 Aug 2022	49	11.35	91.82	5.2	33.57	7.9	25.6	1.00
F26	16 Aug 2022	50	11.28	91.81	5.1	33.57	7.9	25.6	0.84
F26	16 Aug 2022	51	11.21	91.80	5.0	33.58	7.9	25.6	0.79
F26	16 Aug 2022	52	11.15	91.76	4.9	33.58	7.9	25.6	0.66
F26	16 Aug 2022	53	11.15	91.74	4.9	33.58	7.9	25.6	0.56
F26	16 Aug 2022	54	11.12	91.77	4.8	33.58	7.8	25.6	0.56
F26	16 Aug 2022	55	11.08	91.72	4.8	33.59	7.8	25.7	0.51
F26	16 Aug 2022	56	11.05	91.60	4.8	33.60	7.8	25.7	0.49
F26	16 Aug 2022	57	11.04	91.64	4.8	33.60	7.8	25.7	0.48
F26	16 Aug 2022	58	11.05	91.74	4.8	33.60	7.8	25.7	0.52
F26	16 Aug 2022	59	11.05	91.76	4.8	33.60	7.8	25.7	0.48
F26	16 Aug 2022	60	11.04	91.80	4.8	33.60	7.8	25.7	0.48
F26	16 Aug 2022	61	11.04	91.51	4.8	33.61	7.8	25.7	0.46
F26	16 Aug 2022	62	11.04	91.70	4.8	33.61	7.8	25.7	0.47
F26	16 Aug 2022	63	11.04	91.82	4.8	33.61	7.8	25.7	0.47
F26	16 Aug 2022	64	11.04	91.80	4.8	33.61	7.8	25.7	0.46
F26	16 Aug 2022	65	11.03	91.76	4.8	33.61	7.8	25.7	0.49
F26	16 Aug 2022	66	11.02	91.74	4.7	33.61	7.8	25.7	0.47
F26	16 Aug 2022	67	11.02	91.75	4.7	33.61	7.8	25.7	0.44
F26	16 Aug 2022	68	10.99	91.75	4.7	33.61	7.8	25.7	0.43
F26	16 Aug 2022	69	10.87	91.76	4.6	33.65	7.8	25.7	0.40
F26	16 Aug 2022	70	10.80	91.59	4.5	33.66	7.8	25.8	0.38
F26	16 Aug 2022	71	10.75	91.45	4.4	33.67	7.8	25.8	0.32
F26	16 Aug 2022	72	10.73	91.27	4.4	33.68	7.8	25.8	0.31
F26	16 Aug 2022	73	10.68	91.26	4.3	33.70	7.8	25.8	0.29
F26	16 Aug 2022	74	10.65	90.81	4.3	33.71	7.8	25.8	0.29
F26	16 Aug 2022	75	10.63	91.35	4.3	33.72	7.8	25.8	0.27
F26	16 Aug 2022	76	10.62	91.67	4.3	33.73	7.8	25.9	0.27
F26	16 Aug 2022	77	10.57	91.78	4.2	33.75	7.8	25.9	0.26
F26	16 Aug 2022	78	10.52	91.80	4.2	33.77	7.8	25.9	0.25
F26	16 Aug 2022	79	10.48	91.84	4.2	33.79	7.8	25.9	0.25
F26	16 Aug 2022	80	10.47	91.87	4.1	33.79	7.8	25.9	0.26
F26	16 Aug 2022	81	10.44	91.95	4.1	33.81	7.8	25.9	0.24
F26	16 Aug 2022	82	10.42	92.06	4.1	33.82	7.8	26.0	0.24
F26	16 Aug 2022	83	10.42	92.11	4.1	33.82	7.8	26.0	0.23
F26	16 Aug 2022	84	10.41	92.16	4.0	33.83	7.8	26.0	0.23
F26	16 Aug 2022	85	10.40	92.14	4.0	33.83	7.8	26.0	0.23
F26	16 Aug 2022	86	10.40	92.10	4.0	33.83	7.8	26.0	0.23
F26	16 Aug 2022	87	10.40	92.00	4.0	33.83	7.8	26.0	0.23
F26	16 Aug 2022	88	10.40	91.99	4.0	33.83	7.8	26.0	0.23
F26	16 Aug 2022	89	10.39	91.58	4.0	33.84	7.8	26.0	0.23
F26	16 Aug 2022	90	10.39	91.31	4.0	33.84	7.8	26.0	0.23
F26	16 Aug 2022	91	10.38	91.20	3.9	33.85	7.8	26.0	0.22
F26	16 Aug 2022	92	10.35	91.18	3.9	33.86	7.8	26.0	0.24
F26	16 Aug 2022	93	10.33	91.46	3.9	33.87	7.8	26.0	0.22
F26	16 Aug 2022	94	10.32	91.66	3.9	33.88	7.8	26.0	0.22
F26	16 Aug 2022	95	10.31	91.76	3.8	33.89	7.8	26.0	0.23
F26	16 Aug 2022	96	10.28	91.80	3.8	33.91	7.8	26.1	0.22
F26	16 Aug 2022	97	10.26	91.94	3.7	33.93	7.8	26.1	0.21
F26	16 Aug 2022	98	10.26	91.83	3.7	33.93	7.8	26.1	0.21
F26	16 Aug 2022	99	10.24	91.54	3.6	33.95	7.8	26.1	0.20
F27	16 Aug 2022	1	23.79	89.52	7.3	33.64	8.2	22.7	0.36
F27	16 Aug 2022	2	23.70	89.43	7.2	33.63	8.2	22.7	0.36
F27	16 Aug 2022	3	23.49	89.43	7.3	33.63	8.2	22.8	0.37
F27	16 Aug 2022	4	23.33	89.56	7.3	33.62	8.2	22.8	0.37
F27	16 Aug 2022	5	22.74	89.37	7.4	33.58	8.2	22.9	0.37
F27	16 Aug 2022	6	22.19	89.21	7.6	33.58	8.2	23.1	0.38
F27	16 Aug 2022	7	21.74	88.92	7.7	33.56	8.2	23.2	0.38
F27	16 Aug 2022	8	20.78	88.79	8.0	33.55	8.2	23.5	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F27	16 Aug 2022	9	20.48	88.77	8.1	33.54	8.2	23.5	0.37
F27	16 Aug 2022	10	19.81	88.73	8.2	33.54	8.2	23.7	0.38
F27	16 Aug 2022	11	19.48	88.97	8.3	33.55	8.2	23.8	0.40
F27	16 Aug 2022	12	18.75	88.94	8.4	33.52	8.2	24.0	0.40
F27	16 Aug 2022	13	18.05	88.88	8.7	33.51	8.2	24.1	0.42
F27	16 Aug 2022	14	17.92	88.90	8.7	33.51	8.2	24.2	0.44
F27	16 Aug 2022	15	16.88	89.21	8.8	33.46	8.2	24.4	0.42
F27	16 Aug 2022	16	15.93	89.48	9.1	33.43	8.2	24.6	0.42
F27	16 Aug 2022	17	15.68	89.95	9.0	33.41	8.2	24.6	0.42
F27	16 Aug 2022	18	14.92	89.86	8.9	33.40	8.2	24.8	0.47
F27	16 Aug 2022	19	14.87	88.84	8.9	33.41	8.2	24.8	0.57
F27	16 Aug 2022	20	14.62	88.41	8.9	33.41	8.2	24.8	0.65
F27	16 Aug 2022	21	14.55	88.08	8.9	33.41	8.2	24.8	0.76
F27	16 Aug 2022	22	14.56	87.78	8.9	33.42	8.2	24.8	0.83
F27	16 Aug 2022	23	14.42	87.48	8.9	33.42	8.2	24.9	0.90
F27	16 Aug 2022	24	14.30	87.37	8.8	33.42	8.2	24.9	1.00
F27	16 Aug 2022	25	14.09	86.28	8.8	33.42	8.2	24.9	1.23
F27	16 Aug 2022	26	13.89	84.24	8.9	33.42	8.2	25.0	1.87
F27	16 Aug 2022	27	13.83	83.06	9.0	33.42	8.2	25.0	2.46
F27	16 Aug 2022	28	13.67	82.44	8.9	33.42	8.2	25.0	2.89
F27	16 Aug 2022	29	13.51	81.32	8.9	33.43	8.2	25.1	3.85
F27	16 Aug 2022	30	13.42	78.09	8.7	33.44	8.2	25.1	6.04
F27	16 Aug 2022	31	13.11	77.29	8.2	33.47	8.1	25.2	8.76
F27	16 Aug 2022	32	12.79	79.93	7.5	33.48	8.1	25.3	8.90
F27	16 Aug 2022	33	12.55	84.46	6.9	33.49	8.0	25.3	6.58
F27	16 Aug 2022	34	12.47	88.63	6.6	33.49	8.0	25.3	4.27
F27	16 Aug 2022	35	12.34	90.08	6.4	33.49	8.0	25.3	2.88
F27	16 Aug 2022	36	12.30	90.36	6.3	33.48	8.0	25.4	2.60
F27	16 Aug 2022	37	12.29	90.63	6.2	33.49	8.0	25.4	2.26
F27	16 Aug 2022	38	12.26	90.67	6.2	33.49	8.0	25.4	1.78
F27	16 Aug 2022	39	12.21	90.77	6.2	33.49	8.0	25.4	1.81
F27	16 Aug 2022	40	12.22	90.70	6.1	33.50	8.0	25.4	1.56
F27	16 Aug 2022	41	12.10	90.64	6.0	33.51	8.0	25.4	1.67
F27	16 Aug 2022	42	12.00	90.87	5.8	33.52	7.9	25.4	1.68
F27	16 Aug 2022	43	11.88	91.02	5.7	33.52	7.9	25.5	1.58
F27	16 Aug 2022	44	11.68	91.24	5.6	33.53	7.9	25.5	1.43
F27	16 Aug 2022	45	11.67	91.57	5.5	33.53	7.9	25.5	1.22
F27	16 Aug 2022	46	11.64	91.81	5.5	33.53	7.9	25.5	1.14
F27	16 Aug 2022	47	11.61	91.82	5.4	33.54	7.9	25.5	1.09
F27	16 Aug 2022	48	11.53	91.85	5.3	33.55	7.9	25.5	1.10
F27	16 Aug 2022	49	11.47	92.04	5.2	33.55	7.9	25.6	1.00
F27	16 Aug 2022	50	11.38	92.05	5.1	33.56	7.9	25.6	0.88
F27	16 Aug 2022	51	11.33	92.02	5.1	33.57	7.9	25.6	0.83
F27	16 Aug 2022	52	11.34	91.99	5.1	33.57	7.9	25.6	0.78
F27	16 Aug 2022	53	11.31	91.99	5.0	33.57	7.9	25.6	0.77
F27	16 Aug 2022	54	11.29	91.98	5.0	33.57	7.9	25.6	0.76
F27	16 Aug 2022	55	11.26	91.96	5.0	33.57	7.9	25.6	0.73
F27	16 Aug 2022	56	11.12	91.78	4.9	33.58	7.9	25.6	0.66
F27	16 Aug 2022	57	11.12	91.32	4.8	33.58	7.8	25.7	0.56
F27	16 Aug 2022	58	11.06	91.43	4.8	33.59	7.8	25.7	0.54
F27	16 Aug 2022	59	11.03	91.23	4.8	33.59	7.8	25.7	0.50
F27	16 Aug 2022	60	11.00	90.97	4.7	33.59	7.8	25.7	0.47
F27	16 Aug 2022	61	11.01	91.22	4.7	33.60	7.8	25.7	0.45
F27	16 Aug 2022	62	10.94	91.63	4.7	33.62	7.8	25.7	0.44
F27	16 Aug 2022	63	10.93	91.58	4.7	33.62	7.8	25.7	0.42
F27	16 Aug 2022	64	10.87	91.51	4.6	33.63	7.8	25.7	0.39
F27	16 Aug 2022	65	10.86	91.53	4.6	33.63	7.8	25.7	0.35
F27	16 Aug 2022	66	10.85	91.56	4.6	33.63	7.8	25.7	0.37
F27	16 Aug 2022	67	10.85	91.47	4.5	33.63	7.8	25.7	0.37
F27	16 Aug 2022	68	10.85	90.98	4.5	33.63	7.8	25.7	0.36
F27	16 Aug 2022	69	10.85	91.16	4.5	33.63	7.8	25.7	0.35

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F27	16 Aug 2022	70	10.84	91.27	4.5	33.63	7.8	25.7	0.36
F27	16 Aug 2022	71	10.80	91.34	4.5	33.65	7.8	25.8	0.34
F27	16 Aug 2022	72	10.74	91.19	4.4	33.67	7.8	25.8	0.35
F27	16 Aug 2022	73	10.71	90.84	4.3	33.68	7.8	25.8	0.32
F27	16 Aug 2022	74	10.70	90.84	4.3	33.68	7.8	25.8	0.31
F27	16 Aug 2022	75	10.68	91.02	4.3	33.69	7.8	25.8	0.30
F27	16 Aug 2022	76	10.66	91.18	4.3	33.70	7.8	25.8	0.31
F27	16 Aug 2022	77	10.64	91.37	4.3	33.71	7.8	25.8	0.30
F27	16 Aug 2022	78	10.63	91.66	4.3	33.72	7.8	25.8	0.31
F27	16 Aug 2022	79	10.62	91.73	4.3	33.73	7.8	25.9	0.30
F27	16 Aug 2022	80	10.61	91.74	4.3	33.73	7.8	25.9	0.30
F27	16 Aug 2022	81	10.59	91.72	4.3	33.74	7.8	25.9	0.30
F27	16 Aug 2022	82	10.57	91.68	4.3	33.75	7.8	25.9	0.30
F27	16 Aug 2022	83	10.56	91.65	4.3	33.76	7.8	25.9	0.30
F27	16 Aug 2022	84	10.54	91.75	4.2	33.76	7.8	25.9	0.31
F27	16 Aug 2022	85	10.53	91.65	4.2	33.77	7.8	25.9	0.29
F27	16 Aug 2022	86	10.48	91.54	4.1	33.80	7.8	25.9	0.27
F27	16 Aug 2022	87	10.43	91.39	4.0	33.82	7.8	26.0	0.26
F27	16 Aug 2022	88	10.42	91.45	4.0	33.83	7.8	26.0	0.27
F27	16 Aug 2022	89	10.42	91.45	4.0	33.83	7.8	26.0	0.26
F27	16 Aug 2022	90	10.41	91.38	4.0	33.83	7.8	26.0	0.27
F27	16 Aug 2022	91	10.41	91.44	4.0	33.83	7.8	26.0	0.25
F27	16 Aug 2022	92	10.40	91.34	4.0	33.84	7.8	26.0	0.27
F27	16 Aug 2022	93	10.40	91.36	3.9	33.84	7.8	26.0	0.25
F27	16 Aug 2022	94	10.39	91.37	3.9	33.84	7.8	26.0	0.25
F27	16 Aug 2022	95	10.37	91.42	3.9	33.86	7.8	26.0	0.25
F27	16 Aug 2022	96	10.37	91.49	3.9	33.86	7.8	26.0	0.25
F27	16 Aug 2022	97	10.34	91.45	3.8	33.88	7.8	26.0	0.27
F27	16 Aug 2022	98	10.33	91.16	3.8	33.90	7.8	26.0	0.25
F27	16 Aug 2022	99	10.33	90.68	3.8	33.90	7.8	26.0	0.25
F28	16 Aug 2022	1	23.75	88.53	7.3	33.64	8.2	22.7	0.38
F28	16 Aug 2022	2	23.70	88.38	7.3	33.63	8.2	22.7	0.39
F28	16 Aug 2022	3	23.34	89.19	7.4	33.62	8.2	22.8	0.38
F28	16 Aug 2022	4	23.11	89.07	7.5	33.62	8.2	22.9	0.40
F28	16 Aug 2022	5	22.94	89.08	7.4	33.61	8.2	22.9	0.40
F28	16 Aug 2022	6	22.55	88.92	7.3	33.59	8.2	23.0	0.40
F28	16 Aug 2022	7	21.27	88.91	7.7	33.55	8.2	23.3	0.40
F28	16 Aug 2022	8	20.30	89.01	8.1	33.55	8.2	23.6	0.40
F28	16 Aug 2022	9	20.09	88.93	8.2	33.54	8.2	23.6	0.40
F28	16 Aug 2022	10	20.01	88.86	8.2	33.53	8.2	23.6	0.40
F28	16 Aug 2022	11	19.89	88.96	8.2	33.52	8.2	23.7	0.40
F28	16 Aug 2022	12	19.42	88.87	8.2	33.52	8.2	23.8	0.41
F28	16 Aug 2022	13	18.69	88.96	8.3	33.52	8.2	24.0	0.41
F28	16 Aug 2022	14	17.67	88.97	8.7	33.51	8.2	24.2	0.42
F28	16 Aug 2022	15	17.30	89.34	8.8	33.49	8.2	24.3	0.43
F28	16 Aug 2022	16	16.79	89.33	8.8	33.46	8.2	24.4	0.44
F28	16 Aug 2022	17	16.15	89.50	8.9	33.43	8.2	24.5	0.44
F28	16 Aug 2022	18	15.30	89.85	9.0	33.41	8.2	24.7	0.44
F28	16 Aug 2022	19	14.86	90.00	8.9	33.40	8.2	24.8	0.48
F28	16 Aug 2022	20	14.54	89.35	8.8	33.40	8.2	24.8	0.56
F28	16 Aug 2022	21	14.39	88.30	8.8	33.40	8.2	24.9	0.66
F28	16 Aug 2022	22	14.07	87.42	8.8	33.40	8.2	24.9	0.82
F28	16 Aug 2022	23	13.73	86.05	8.8	33.40	8.2	25.0	1.31
F28	16 Aug 2022	24	13.63	83.70	8.9	33.40	8.2	25.0	2.07
F28	16 Aug 2022	25	13.60	82.13	8.9	33.41	8.2	25.0	2.86
F28	16 Aug 2022	26	13.57	81.42	8.8	33.41	8.2	25.0	3.63
F28	16 Aug 2022	27	13.40	80.71	8.7	33.41	8.2	25.1	4.88
F28	16 Aug 2022	28	12.97	78.97	8.3	33.45	8.1	25.2	7.74
F28	16 Aug 2022	29	12.92	76.41	8.0	33.46	8.1	25.2	11.06
F28	16 Aug 2022	30	12.92	76.74	7.8	33.47	8.1	25.2	12.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F28	16 Aug 2022	31	12.92	77.42	7.8	33.48	8.1	25.2	13.60
F28	16 Aug 2022	32	12.88	77.46	7.5	33.49	8.1	25.2	13.27
F28	16 Aug 2022	33	12.70	78.55	7.2	33.49	8.1	25.3	10.96
F28	16 Aug 2022	34	12.53	84.04	6.9	33.49	8.0	25.3	7.00
F28	16 Aug 2022	35	12.49	88.46	6.7	33.49	8.0	25.3	4.48
F28	16 Aug 2022	36	12.45	89.64	6.5	33.49	8.0	25.3	3.25
F28	16 Aug 2022	37	12.17	90.19	6.2	33.49	8.0	25.4	2.44
F28	16 Aug 2022	38	12.02	90.90	6.0	33.50	8.0	25.4	1.94
F28	16 Aug 2022	39	11.99	91.33	5.8	33.50	8.0	25.4	1.51
F28	16 Aug 2022	40	11.97	91.27	5.8	33.50	7.9	25.4	1.36
F28	16 Aug 2022	41	11.97	91.34	5.8	33.51	7.9	25.4	1.37
F28	16 Aug 2022	42	11.96	91.35	5.8	33.51	7.9	25.4	1.25
F28	16 Aug 2022	43	11.92	91.43	5.7	33.51	7.9	25.4	1.21
F28	16 Aug 2022	44	11.81	91.37	5.6	33.52	7.9	25.5	1.17
F28	16 Aug 2022	45	11.76	91.69	5.6	33.52	7.9	25.5	1.12
F28	16 Aug 2022	46	11.76	91.86	5.6	33.52	7.9	25.5	1.07
F28	16 Aug 2022	47	11.73	91.87	5.6	33.52	7.9	25.5	1.06
F28	16 Aug 2022	48	11.72	91.90	5.5	33.52	7.9	25.5	1.03
F28	16 Aug 2022	49	11.71	91.87	5.5	33.53	7.9	25.5	1.02
F28	16 Aug 2022	50	11.70	91.80	5.5	33.53	7.9	25.5	1.03
F28	16 Aug 2022	51	11.65	91.98	5.4	33.53	7.9	25.5	1.05
F28	16 Aug 2022	52	11.61	91.95	5.3	33.54	7.9	25.5	0.99
F28	16 Aug 2022	53	11.56	92.00	5.3	33.54	7.9	25.5	0.95
F28	16 Aug 2022	54	11.52	92.07	5.2	33.55	7.9	25.5	0.91
F28	16 Aug 2022	55	11.42	92.06	5.2	33.56	7.9	25.6	0.87
F28	16 Aug 2022	56	11.37	92.18	5.1	33.57	7.9	25.6	0.85
F28	16 Aug 2022	57	11.32	92.19	5.0	33.58	7.9	25.6	0.82
F28	16 Aug 2022	58	11.30	92.24	5.0	33.58	7.9	25.6	0.81
F28	16 Aug 2022	59	11.25	92.26	5.0	33.58	7.9	25.6	0.75
F28	16 Aug 2022	60	11.14	92.31	5.0	33.59	7.9	25.7	0.68
F28	16 Aug 2022	61	11.07	92.03	4.9	33.59	7.8	25.7	0.62
F28	16 Aug 2022	62	11.04	91.62	4.8	33.59	7.8	25.7	0.55
F28	16 Aug 2022	63	11.00	91.43	4.7	33.59	7.8	25.7	0.50
F28	16 Aug 2022	64	10.91	91.04	4.6	33.58	7.8	25.7	0.47
F28	16 Aug 2022	65	10.88	90.49	4.5	33.58	7.8	25.7	0.41
F28	16 Aug 2022	66	10.87	90.14	4.4	33.58	7.8	25.7	0.38
F28	16 Aug 2022	67	10.86	89.91	4.3	33.58	7.8	25.7	0.37
F28	16 Aug 2022	68	10.85	89.66	4.3	33.58	7.8	25.7	0.35
F28	16 Aug 2022	69	10.86	89.73	4.4	33.59	7.8	25.7	0.35
F28	16 Aug 2022	70	10.82	89.85	4.4	33.60	7.8	25.7	0.34
F28	16 Aug 2022	71	10.80	89.91	4.4	33.62	7.8	25.7	0.35
F28	16 Aug 2022	72	10.80	90.17	4.4	33.62	7.8	25.7	0.35
F28	16 Aug 2022	73	10.75	90.16	4.4	33.64	7.8	25.8	0.35
F28	16 Aug 2022	74	10.68	90.33	4.3	33.67	7.8	25.8	0.34
F28	16 Aug 2022	75	10.66	90.53	4.3	33.68	7.8	25.8	0.33
F28	16 Aug 2022	76	10.64	90.19	4.3	33.70	7.8	25.8	0.34
F28	16 Aug 2022	77	10.64	90.74	4.4	33.71	7.8	25.8	0.33
F28	16 Aug 2022	78	10.64	91.35	4.4	33.71	7.8	25.8	0.33
F28	16 Aug 2022	79	10.64	91.73	4.4	33.72	7.8	25.8	0.34
F28	16 Aug 2022	80	10.64	91.98	4.4	33.72	7.8	25.8	0.34
F28	16 Aug 2022	81	10.62	91.97	4.4	33.73	7.8	25.9	0.34
F28	16 Aug 2022	82	10.61	91.95	4.4	33.73	7.8	25.9	0.33
F28	16 Aug 2022	83	10.61	91.97	4.4	33.73	7.8	25.9	0.34
F28	16 Aug 2022	84	10.60	91.95	4.3	33.73	7.8	25.9	0.33
F28	16 Aug 2022	85	10.60	91.94	4.3	33.74	7.8	25.9	0.33
F28	16 Aug 2022	86	10.59	91.91	4.4	33.74	7.8	25.9	0.32
F28	16 Aug 2022	87	10.58	91.85	4.3	33.74	7.8	25.9	0.33
F28	16 Aug 2022	88	10.57	91.79	4.3	33.74	7.8	25.9	0.32
F28	16 Aug 2022	89	10.56	91.73	4.3	33.75	7.8	25.9	0.31
F28	16 Aug 2022	90	10.55	91.74	4.3	33.76	7.8	25.9	0.32
F28	16 Aug 2022	91	10.53	91.74	4.2	33.76	7.8	25.9	0.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F28	16 Aug 2022	92	10.51	91.39	4.2	33.77	7.8	25.9	0.31
F28	16 Aug 2022	93	10.49	91.28	4.2	33.78	7.8	25.9	0.30
F28	16 Aug 2022	94	10.47	91.31	4.1	33.80	7.8	25.9	0.29
F28	16 Aug 2022	95	10.45	91.48	4.1	33.80	7.8	25.9	0.29
F28	16 Aug 2022	96	10.41	91.18	4.0	33.83	7.8	26.0	0.29
F28	16 Aug 2022	97	10.39	91.39	4.0	33.84	7.8	26.0	0.28
F28	16 Aug 2022	98	10.35	91.81	3.9	33.88	7.8	26.0	0.28
F28	16 Aug 2022	99	10.31	91.88	3.8	33.91	7.8	26.0	0.27
F28	16 Aug 2022	100	10.31	91.64	3.8	33.91	7.8	26.0	0.27
F29	16 Aug 2022	1	23.39	88.61	7.6	33.63	8.2	22.8	0.37
F29	16 Aug 2022	2	23.25	88.38	7.6	33.62	8.2	22.8	0.39
F29	16 Aug 2022	3	23.03	88.53	7.5	33.61	8.2	22.9	0.40
F29	16 Aug 2022	4	22.11	88.71	7.6	33.58	8.2	23.1	0.39
F29	16 Aug 2022	5	20.90	88.51	7.8	33.56	8.2	23.4	0.37
F29	16 Aug 2022	6	19.27	88.55	8.1	33.54	8.2	23.8	0.35
F29	16 Aug 2022	7	18.02	88.77	8.5	33.51	8.2	24.1	0.35
F29	16 Aug 2022	8	17.31	88.51	8.8	33.48	8.2	24.3	0.34
F29	16 Aug 2022	9	17.01	89.45	8.9	33.46	8.2	24.3	0.36
F29	16 Aug 2022	10	16.95	89.64	9.0	33.47	8.2	24.4	0.36
F29	16 Aug 2022	11	16.91	89.60	9.0	33.47	8.2	24.4	0.36
F29	16 Aug 2022	12	16.67	89.60	9.0	33.46	8.2	24.4	0.37
F29	16 Aug 2022	13	16.19	89.68	9.1	33.45	8.2	24.5	0.39
F29	16 Aug 2022	14	15.98	89.85	9.1	33.44	8.2	24.6	0.40
F29	16 Aug 2022	15	15.59	89.97	8.9	33.41	8.2	24.6	0.42
F29	16 Aug 2022	16	14.79	89.90	8.9	33.41	8.2	24.8	0.44
F29	16 Aug 2022	17	14.66	89.22	8.8	33.41	8.2	24.8	0.49
F29	16 Aug 2022	18	14.64	89.10	8.8	33.41	8.2	24.8	0.54
F29	16 Aug 2022	19	14.35	89.07	8.7	33.41	8.2	24.9	0.61
F29	16 Aug 2022	20	13.86	87.43	8.7	33.40	8.2	25.0	0.83
F29	16 Aug 2022	21	13.78	85.64	8.7	33.40	8.2	25.0	1.17
F29	16 Aug 2022	22	13.50	84.54	8.7	33.41	8.2	25.1	2.16
F29	16 Aug 2022	23	13.24	80.11	8.6	33.41	8.2	25.1	3.91
F29	16 Aug 2022	24	12.98	79.09	8.3	33.43	8.1	25.2	5.79
F29	16 Aug 2022	25	12.80	79.95	7.9	33.43	8.1	25.2	7.07
F29	16 Aug 2022	26	12.65	80.94	7.5	33.46	8.1	25.3	7.12
F29	16 Aug 2022	27	12.60	83.28	7.2	33.47	8.1	25.3	6.37
F29	16 Aug 2022	28	12.51	86.18	6.8	33.49	8.0	25.3	5.07
F29	16 Aug 2022	29	12.39	87.82	6.5	33.50	8.0	25.3	3.79
F29	16 Aug 2022	30	12.23	88.89	6.3	33.50	8.0	25.4	2.90
F29	16 Aug 2022	31	12.13	90.26	6.1	33.50	8.0	25.4	2.06
F29	16 Aug 2022	32	12.08	90.79	6.0	33.51	8.0	25.4	1.75
F29	16 Aug 2022	33	12.02	90.92	5.9	33.52	8.0	25.4	1.56
F29	16 Aug 2022	34	11.99	91.10	5.8	33.52	7.9	25.4	1.42
F29	16 Aug 2022	35	11.89	91.23	5.7	33.52	7.9	25.5	1.58
F29	16 Aug 2022	36	11.83	91.43	5.5	33.52	7.9	25.5	1.32
F29	16 Aug 2022	37	11.78	91.44	5.5	33.53	7.9	25.5	1.15
F29	16 Aug 2022	38	11.78	91.65	5.5	33.53	7.9	25.5	1.17
F29	16 Aug 2022	39	11.73	91.69	5.5	33.53	7.9	25.5	1.15
F29	16 Aug 2022	40	11.70	91.78	5.4	33.53	7.9	25.5	1.13
F29	16 Aug 2022	41	11.68	91.73	5.4	33.53	7.9	25.5	1.11
F29	16 Aug 2022	42	11.68	91.78	5.3	33.53	7.9	25.5	1.15
F29	16 Aug 2022	43	11.67	91.79	5.3	33.54	7.9	25.5	1.07
F29	16 Aug 2022	44	11.64	91.77	5.3	33.54	7.9	25.5	1.10
F29	16 Aug 2022	45	11.57	91.98	5.2	33.55	7.9	25.5	0.99
F29	16 Aug 2022	46	11.52	91.98	5.2	33.55	7.9	25.6	0.97
F29	16 Aug 2022	47	11.51	92.01	5.2	33.55	7.9	25.6	0.95
F29	16 Aug 2022	48	11.49	92.09	5.2	33.55	7.9	25.6	0.93
F29	16 Aug 2022	49	11.47	92.19	5.2	33.55	7.9	25.6	0.87
F29	16 Aug 2022	50	11.45	92.22	5.2	33.55	7.9	25.6	0.84
F29	16 Aug 2022	51	11.40	92.28	5.2	33.56	7.9	25.6	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F29	16 Aug 2022	52	11.38	92.32	5.1	33.56	7.9	25.6	0.77
F29	16 Aug 2022	53	11.33	92.34	5.1	33.56	7.9	25.6	0.74
F29	16 Aug 2022	54	11.27	92.24	5.1	33.57	7.9	25.6	0.68
F29	16 Aug 2022	55	11.22	92.29	5.0	33.58	7.9	25.6	0.65
F29	16 Aug 2022	56	11.20	92.25	5.0	33.58	7.8	25.6	0.62
F29	16 Aug 2022	57	11.17	92.36	5.0	33.58	7.8	25.6	0.61
F29	16 Aug 2022	58	11.15	92.32	5.0	33.58	7.8	25.6	0.58
F29	16 Aug 2022	59	11.15	92.27	5.0	33.59	7.8	25.6	0.55
F29	16 Aug 2022	60	11.14	92.37	5.0	33.59	7.8	25.6	0.54
F29	16 Aug 2022	61	11.13	92.40	5.0	33.59	7.8	25.7	0.57
F29	16 Aug 2022	62	11.11	92.44	5.0	33.59	7.8	25.7	0.55
F29	16 Aug 2022	63	11.10	92.48	5.0	33.59	7.8	25.7	0.54
F29	16 Aug 2022	64	11.09	92.49	5.0	33.59	7.8	25.7	0.56
F29	16 Aug 2022	65	11.08	92.47	5.0	33.60	7.8	25.7	0.55
F29	16 Aug 2022	66	11.04	92.41	5.0	33.60	7.8	25.7	0.52
F29	16 Aug 2022	67	11.00	92.28	4.9	33.60	7.8	25.7	0.49
F29	16 Aug 2022	68	10.96	92.06	4.8	33.61	7.8	25.7	0.50
F29	16 Aug 2022	69	10.95	91.76	4.8	33.61	7.8	25.7	0.44
F29	16 Aug 2022	70	10.86	91.34	4.7	33.62	7.8	25.7	0.43
F29	16 Aug 2022	71	10.86	90.96	4.6	33.62	7.8	25.7	0.40
F29	16 Aug 2022	72	10.86	90.93	4.6	33.62	7.8	25.7	0.39
F29	16 Aug 2022	73	10.85	91.04	4.6	33.62	7.8	25.7	0.39
F29	16 Aug 2022	74	10.83	91.24	4.6	33.63	7.8	25.7	0.38
F29	16 Aug 2022	75	10.82	91.27	4.6	33.64	7.8	25.7	0.38
F29	16 Aug 2022	76	10.78	91.30	4.5	33.64	7.8	25.8	0.37
F29	16 Aug 2022	77	10.74	91.06	4.4	33.64	7.8	25.8	0.35
F29	16 Aug 2022	78	10.72	90.38	4.3	33.64	7.8	25.8	0.33
F29	16 Aug 2022	79	10.69	89.92	4.3	33.64	7.8	25.8	0.32
F29	16 Aug 2022	80	10.71	90.00	4.3	33.66	7.8	25.8	0.31
F29	16 Aug 2022	81	10.71	90.48	4.3	33.67	7.8	25.8	0.31
F29	16 Aug 2022	82	10.69	90.63	4.3	33.67	7.8	25.8	0.31
F29	16 Aug 2022	83	10.65	90.42	4.3	33.69	7.8	25.8	0.32
F29	16 Aug 2022	84	10.60	90.14	4.2	33.71	7.8	25.8	0.31
F29	16 Aug 2022	85	10.58	90.07	4.2	33.72	7.8	25.8	0.29
F29	16 Aug 2022	86	10.56	89.98	4.2	33.73	7.8	25.9	0.29
F29	16 Aug 2022	87	10.57	90.25	4.2	33.73	7.8	25.9	0.28
F29	16 Aug 2022	88	10.55	90.54	4.2	33.74	7.8	25.9	0.28
F29	16 Aug 2022	89	10.54	90.80	4.2	33.75	7.8	25.9	0.27
F29	16 Aug 2022	90	10.54	91.14	4.2	33.75	7.8	25.9	0.28
F29	16 Aug 2022	91	10.53	91.44	4.2	33.76	7.8	25.9	0.28
F29	16 Aug 2022	92	10.52	91.46	4.2	33.76	7.8	25.9	0.28
F29	16 Aug 2022	93	10.50	91.55	4.2	33.78	7.8	25.9	0.29
F29	16 Aug 2022	94	10.49	91.72	4.2	33.78	7.8	25.9	0.27
F29	16 Aug 2022	95	10.48	91.55	4.1	33.78	7.8	25.9	0.27
F29	16 Aug 2022	96	10.45	91.31	4.1	33.80	7.8	25.9	0.27
F29	16 Aug 2022	97	10.41	91.28	4.0	33.82	7.8	26.0	0.27
F29	16 Aug 2022	98	10.35	91.71	3.9	33.87	7.8	26.0	0.26
F29	16 Aug 2022	99	10.30	91.78	3.8	33.93	7.8	26.1	0.26
F29	16 Aug 2022	100	10.32	91.65	3.7	33.92	7.8	26.1	0.24
F30	16 Aug 2022	1	23.53	88.73	7.5	33.62	8.2	22.7	0.42
F30	16 Aug 2022	2	23.43	88.74	7.5	33.61	8.2	22.8	0.42
F30	16 Aug 2022	3	22.86	88.75	7.6	33.56	8.2	22.9	0.43
F30	16 Aug 2022	4	22.00	88.79	7.6	33.55	8.2	23.1	0.43
F30	16 Aug 2022	5	20.21	88.69	7.9	33.44	8.2	23.5	0.44
F30	16 Aug 2022	6	18.21	88.76	8.7	33.50	8.2	24.1	0.43
F30	16 Aug 2022	7	18.05	89.14	8.8	33.48	8.2	24.1	0.43
F30	16 Aug 2022	8	17.59	89.24	8.8	33.46	8.2	24.2	0.43
F30	16 Aug 2022	9	17.25	89.25	8.9	33.47	8.2	24.3	0.42
F30	16 Aug 2022	10	17.13	89.42	8.9	33.47	8.2	24.3	0.45
F30	16 Aug 2022	11	16.98	89.49	9.0	33.47	8.2	24.3	0.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F30	16 Aug 2022	12	16.71	89.80	9.0	33.46	8.2	24.4	0.46
F30	16 Aug 2022	13	16.37	89.80	9.1	33.45	8.2	24.5	0.47
F30	16 Aug 2022	14	16.28	90.07	9.1	33.46	8.2	24.5	0.48
F30	16 Aug 2022	15	16.02	90.14	9.1	33.45	8.2	24.6	0.49
F30	16 Aug 2022	16	15.89	90.06	9.0	33.44	8.2	24.6	0.51
F30	16 Aug 2022	17	15.17	89.95	8.9	33.41	8.2	24.7	0.53
F30	16 Aug 2022	18	14.64	89.58	8.6	33.41	8.2	24.8	0.57
F30	16 Aug 2022	19	14.28	88.90	8.6	33.40	8.2	24.9	0.67
F30	16 Aug 2022	20	13.99	87.66	8.7	33.41	8.2	25.0	0.83
F30	16 Aug 2022	21	13.92	86.54	8.7	33.40	8.2	25.0	0.99
F30	16 Aug 2022	22	13.64	85.62	8.7	33.41	8.2	25.0	1.30
F30	16 Aug 2022	23	13.62	84.45	8.7	33.41	8.1	25.0	1.78
F30	16 Aug 2022	24	13.47	83.71	8.7	33.41	8.1	25.1	2.36
F30	16 Aug 2022	25	13.38	81.94	8.7	33.41	8.1	25.1	3.76
F30	16 Aug 2022	26	13.22	80.17	8.5	33.41	8.1	25.1	5.37
F30	16 Aug 2022	27	12.86	79.93	8.1	33.43	8.1	25.2	7.11
F30	16 Aug 2022	28	12.70	81.60	7.7	33.43	8.1	25.2	7.57
F30	16 Aug 2022	29	12.51	82.46	7.2	33.47	8.0	25.3	7.29
F30	16 Aug 2022	30	12.47	84.62	6.9	33.49	8.0	25.3	6.08
F30	16 Aug 2022	31	12.43	86.65	6.7	33.49	8.0	25.3	4.77
F30	16 Aug 2022	32	12.36	87.51	6.5	33.49	8.0	25.4	4.36
F30	16 Aug 2022	33	12.20	88.42	6.3	33.50	8.0	25.4	3.56
F30	16 Aug 2022	34	12.14	89.34	6.2	33.50	8.0	25.4	2.89
F30	16 Aug 2022	35	12.10	89.93	6.0	33.51	8.0	25.4	2.43
F30	16 Aug 2022	36	12.02	90.31	5.9	33.51	7.9	25.4	2.10
F30	16 Aug 2022	37	11.94	90.72	5.8	33.52	7.9	25.4	1.89
F30	16 Aug 2022	38	11.88	90.95	5.7	33.53	7.9	25.5	1.78
F30	16 Aug 2022	39	11.86	91.25	5.6	33.53	7.9	25.5	1.56
F30	16 Aug 2022	40	11.81	91.33	5.5	33.52	7.9	25.5	1.46
F30	16 Aug 2022	41	11.73	91.52	5.4	33.53	7.9	25.5	1.41
F30	16 Aug 2022	42	11.69	91.73	5.3	33.53	7.9	25.5	1.25
F30	16 Aug 2022	43	11.67	91.80	5.3	33.54	7.9	25.5	1.19
F30	16 Aug 2022	44	11.61	92.01	5.2	33.54	7.9	25.5	1.10
F30	16 Aug 2022	45	11.50	92.02	5.2	33.55	7.9	25.6	1.01
F30	16 Aug 2022	46	11.49	92.09	5.2	33.55	7.9	25.6	0.96
F30	16 Aug 2022	47	11.42	92.15	5.1	33.56	7.9	25.6	0.94
F30	16 Aug 2022	48	11.37	92.15	5.1	33.56	7.9	25.6	0.89
F30	16 Aug 2022	49	11.36	92.18	5.1	33.56	7.8	25.6	0.84
F30	16 Aug 2022	50	11.36	92.19	5.1	33.56	7.8	25.6	0.84
F30	16 Aug 2022	51	11.32	92.22	5.1	33.57	7.8	25.6	0.84
F30	16 Aug 2022	52	11.26	92.24	5.0	33.57	7.8	25.6	0.80
F30	16 Aug 2022	53	11.18	92.26	5.0	33.58	7.8	25.6	0.74
F30	16 Aug 2022	54	11.16	92.43	5.0	33.59	7.8	25.6	0.69
F30	16 Aug 2022	55	11.12	92.45	5.0	33.59	7.8	25.7	0.66
F30	16 Aug 2022	56	11.06	92.25	4.9	33.60	7.8	25.7	0.65
F30	16 Aug 2022	57	10.99	92.14	4.9	33.60	7.8	25.7	0.60
F30	16 Aug 2022	58	10.97	91.82	4.8	33.60	7.8	25.7	0.55
F30	16 Aug 2022	59	10.96	91.24	4.8	33.60	7.8	25.7	0.53
F30	16 Aug 2022	60	10.86	90.38	4.7	33.59	7.8	25.7	0.49
F30	16 Aug 2022	61	10.79	89.96	4.6	33.60	7.8	25.7	0.45
F30	16 Aug 2022	62	10.75	88.98	4.5	33.60	7.8	25.7	0.42
F30	16 Aug 2022	63	10.80	88.38	4.5	33.62	7.8	25.7	0.42
F30	16 Aug 2022	64	10.83	89.84	4.6	33.63	7.8	25.7	0.43
F30	16 Aug 2022	65	10.85	91.19	4.6	33.64	7.8	25.7	0.44
F30	16 Aug 2022	66	10.84	91.88	4.7	33.65	7.8	25.8	0.45
F30	16 Aug 2022	67	10.84	92.30	4.7	33.65	7.8	25.8	0.47
F30	16 Aug 2022	68	10.84	92.36	4.7	33.65	7.8	25.8	0.46
F30	16 Aug 2022	69	10.82	92.33	4.7	33.65	7.8	25.8	0.46
F30	16 Aug 2022	70	10.81	92.28	4.6	33.65	7.8	25.8	0.47
F30	16 Aug 2022	71	10.81	92.14	4.6	33.65	7.8	25.8	0.46
F30	16 Aug 2022	72	10.78	92.11	4.6	33.65	7.8	25.8	0.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F30	16 Aug 2022	73	10.76	91.82	4.6	33.66	7.8	25.8	0.43
F30	16 Aug 2022	74	10.75	91.32	4.5	33.66	7.8	25.8	0.42
F30	16 Aug 2022	75	10.74	91.24	4.5	33.66	7.8	25.8	0.41
F30	16 Aug 2022	76	10.72	91.00	4.5	33.67	7.8	25.8	0.40
F30	16 Aug 2022	77	10.70	90.92	4.4	33.68	7.8	25.8	0.40
F30	16 Aug 2022	78	10.67	91.00	4.4	33.69	7.8	25.8	0.40
F30	16 Aug 2022	79	10.64	90.66	4.3	33.70	7.8	25.8	0.38
F30	16 Aug 2022	80	10.63	90.37	4.3	33.71	7.8	25.8	0.37
F30	16 Aug 2022	81	10.63	90.64	4.3	33.71	7.8	25.8	0.37
F30	16 Aug 2022	82	10.63	90.88	4.3	33.71	7.8	25.8	0.36
F30	16 Aug 2022	83	10.63	90.91	4.3	33.71	7.8	25.8	0.37
F30	16 Aug 2022	84	10.63	91.01	4.3	33.71	7.8	25.8	0.37
F30	16 Aug 2022	85	10.63	91.02	4.3	33.72	7.8	25.8	0.37
F30	16 Aug 2022	86	10.61	90.94	4.3	33.72	7.8	25.8	0.37
F30	16 Aug 2022	87	10.59	90.88	4.3	33.73	7.8	25.9	0.36
F30	16 Aug 2022	88	10.55	90.80	4.2	33.75	7.8	25.9	0.36
F30	16 Aug 2022	89	10.54	90.90	4.2	33.75	7.8	25.9	0.41
F30	16 Aug 2022	90	10.54	91.04	4.2	33.75	7.8	25.9	0.35
F30	16 Aug 2022	91	10.53	91.05	4.2	33.76	7.8	25.9	0.35
F30	16 Aug 2022	92	10.53	91.05	4.2	33.76	7.8	25.9	0.35
F30	16 Aug 2022	93	10.51	91.08	4.2	33.77	7.8	25.9	0.34
F30	16 Aug 2022	94	10.48	91.09	4.1	33.78	7.8	25.9	0.33
F30	16 Aug 2022	95	10.46	91.00	4.1	33.79	7.8	25.9	0.33
F30	16 Aug 2022	96	10.41	90.06	4.0	33.81	7.8	26.0	0.34
F30	16 Aug 2022	97	10.33	89.49	3.8	33.87	7.7	26.0	0.32
F30	16 Aug 2022	98	10.29	90.34	3.7	33.92	7.7	26.1	0.31
F31	16 Aug 2022	1	23.37	88.85	7.5	33.62	8.2	22.8	0.43
F31	16 Aug 2022	2	23.28	88.92	7.5	33.62	8.2	22.8	0.43
F31	16 Aug 2022	3	23.22	88.81	7.4	33.62	8.2	22.8	0.46
F31	16 Aug 2022	4	22.65	88.82	7.5	33.59	8.2	23.0	0.47
F31	16 Aug 2022	5	21.34	88.76	7.9	33.57	8.2	23.3	0.48
F31	16 Aug 2022	6	21.19	88.41	8.0	33.55	8.2	23.3	0.51
F31	16 Aug 2022	7	20.64	88.37	8.1	33.52	8.2	23.5	0.49
F31	16 Aug 2022	8	19.84	88.45	8.3	33.52	8.2	23.7	0.50
F31	16 Aug 2022	9	19.39	88.87	8.4	33.51	8.2	23.8	0.51
F31	16 Aug 2022	10	18.45	88.94	8.5	33.50	8.2	24.0	0.49
F31	16 Aug 2022	11	17.66	89.10	8.7	33.49	8.2	24.2	0.48
F31	16 Aug 2022	12	17.22	89.30	8.8	33.48	8.2	24.3	0.50
F31	16 Aug 2022	13	16.97	89.58	8.9	33.47	8.2	24.3	0.49
F31	16 Aug 2022	14	16.90	89.79	8.9	33.47	8.2	24.4	0.49
F31	16 Aug 2022	15	16.86	89.90	8.9	33.47	8.2	24.4	0.48
F31	16 Aug 2022	16	16.60	89.89	8.9	33.47	8.2	24.4	0.51
F31	16 Aug 2022	17	16.33	89.99	8.9	33.47	8.2	24.5	0.52
F31	16 Aug 2022	18	16.22	90.11	8.8	33.45	8.2	24.5	0.57
F31	16 Aug 2022	19	14.86	90.29	9.0	33.41	8.2	24.8	0.58
F31	16 Aug 2022	20	14.61	90.22	9.1	33.40	8.2	24.8	0.61
F31	16 Aug 2022	21	14.44	89.99	9.0	33.40	8.2	24.9	0.66
F31	16 Aug 2022	22	14.27	89.65	8.9	33.40	8.2	24.9	0.72
F31	16 Aug 2022	23	13.96	89.24	8.7	33.40	8.2	25.0	0.90
F31	16 Aug 2022	24	13.66	87.66	8.6	33.40	8.2	25.0	1.57
F31	16 Aug 2022	25	13.49	84.48	8.7	33.41	8.2	25.1	3.27
F31	16 Aug 2022	26	13.34	79.84	8.8	33.41	8.2	25.1	5.65
F31	16 Aug 2022	27	13.19	77.05	8.7	33.41	8.2	25.1	7.79
F31	16 Aug 2022	28	13.09	78.06	8.6	33.41	8.1	25.1	8.97
F31	16 Aug 2022	29	12.98	78.81	8.3	33.41	8.1	25.2	9.38
F31	16 Aug 2022	30	12.85	80.07	8.0	33.43	8.1	25.2	9.13
F31	16 Aug 2022	31	12.76	81.66	7.8	33.45	8.1	25.2	8.13
F31	16 Aug 2022	32	12.72	83.11	7.6	33.45	8.1	25.2	7.87
F31	16 Aug 2022	33	12.62	83.91	7.3	33.46	8.1	25.3	7.25
F31	16 Aug 2022	34	12.46	84.43	7.0	33.48	8.0	25.3	6.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
F31	16 Aug 2022	35	12.38	86.54	6.7	33.49	8.0	25.3	5.47
F31	16 Aug 2022	36	12.29	87.41	6.5	33.49	8.0	25.4	5.27
F31	16 Aug 2022	37	12.22	88.13	6.3	33.50	8.0	25.4	3.77
F31	16 Aug 2022	38	12.19	88.91	6.2	33.50	8.0	25.4	3.29
F31	16 Aug 2022	39	12.05	89.63	6.0	33.52	8.0	25.4	2.74
F31	16 Aug 2022	40	11.98	89.95	5.9	33.52	7.9	25.4	2.55
F31	16 Aug 2022	41	11.95	90.14	5.8	33.52	7.9	25.4	2.34
F31	16 Aug 2022	42	11.93	90.26	5.7	33.52	7.9	25.5	2.03
F31	16 Aug 2022	43	11.85	90.44	5.6	33.52	7.9	25.5	1.97
F31	16 Aug 2022	44	11.78	90.85	5.5	33.53	7.9	25.5	1.81
F31	16 Aug 2022	45	11.77	91.25	5.5	33.53	7.9	25.5	1.52
F31	16 Aug 2022	46	11.74	91.29	5.4	33.53	7.9	25.5	1.50
F31	16 Aug 2022	47	11.70	91.38	5.4	33.54	7.9	25.5	1.36
F31	16 Aug 2022	48	11.68	91.50	5.4	33.54	7.9	25.5	1.37
F31	16 Aug 2022	49	11.65	91.48	5.3	33.54	7.9	25.5	1.39
F31	16 Aug 2022	50	11.55	91.53	5.3	33.55	7.9	25.5	1.25
F31	16 Aug 2022	51	11.50	91.74	5.2	33.56	7.9	25.6	1.14
F31	16 Aug 2022	52	11.48	91.95	5.2	33.56	7.9	25.6	1.08
F31	16 Aug 2022	53	11.45	92.00	5.1	33.56	7.9	25.6	1.00
F31	16 Aug 2022	54	11.43	92.02	5.1	33.56	7.9	25.6	0.96
F31	16 Aug 2022	55	11.41	92.07	5.1	33.56	7.9	25.6	0.93
F31	16 Aug 2022	56	11.39	92.06	5.0	33.56	7.9	25.6	0.89
F31	16 Aug 2022	57	11.38	92.13	5.0	33.56	7.8	25.6	0.89
F31	16 Aug 2022	58	11.34	92.20	5.0	33.57	7.8	25.6	0.83
F31	16 Aug 2022	59	11.30	92.24	5.0	33.57	7.8	25.6	0.80
F31	16 Aug 2022	60	11.19	92.28	5.0	33.59	7.8	25.6	0.73
F31	16 Aug 2022	61	11.15	92.40	5.0	33.59	7.8	25.6	0.69
F31	16 Aug 2022	62	11.14	92.42	5.0	33.59	7.8	25.7	0.67
F31	16 Aug 2022	63	11.11	92.36	4.9	33.59	7.8	25.7	0.71
F31	16 Aug 2022	64	11.09	92.27	4.9	33.60	7.8	25.7	0.71
F31	16 Aug 2022	65	11.06	92.25	4.9	33.60	7.8	25.7	0.63
F31	16 Aug 2022	66	11.02	92.28	4.9	33.61	7.8	25.7	0.58
F31	16 Aug 2022	67	11.01	92.24	4.9	33.61	7.8	25.7	0.58
F31	16 Aug 2022	68	11.00	92.30	4.8	33.61	7.8	25.7	0.55
F31	16 Aug 2022	69	10.99	92.28	4.8	33.61	7.8	25.7	0.53
F31	16 Aug 2022	70	10.98	92.27	4.8	33.61	7.8	25.7	0.53
F31	16 Aug 2022	71	10.93	92.31	4.8	33.62	7.8	25.7	0.52
F31	16 Aug 2022	72	10.91	92.31	4.8	33.63	7.8	25.7	0.50
F31	16 Aug 2022	73	10.86	92.32	4.7	33.64	7.8	25.7	0.48
F31	16 Aug 2022	74	10.81	92.34	4.6	33.65	7.8	25.8	0.47
F31	16 Aug 2022	75	10.74	92.19	4.6	33.67	7.8	25.8	0.43
F31	16 Aug 2022	76	10.72	91.91	4.5	33.68	7.8	25.8	0.40
F31	16 Aug 2022	77	10.71	91.72	4.5	33.68	7.8	25.8	0.39
F31	16 Aug 2022	78	10.70	91.57	4.5	33.68	7.8	25.8	0.38
F31	16 Aug 2022	79	10.67	91.45	4.4	33.69	7.8	25.8	0.36
F31	16 Aug 2022	80	10.66	91.29	4.4	33.70	7.8	25.8	0.36
F31	16 Aug 2022	81	10.64	91.17	4.4	33.70	7.8	25.8	0.35
F31	16 Aug 2022	82	10.63	91.44	4.4	33.72	7.8	25.8	0.35
F31	16 Aug 2022	83	10.61	91.61	4.4	33.72	7.8	25.8	0.40
F31	16 Aug 2022	84	10.59	91.27	4.4	33.73	7.8	25.9	0.35
F31	16 Aug 2022	85	10.58	91.14	4.4	33.73	7.8	25.9	0.34
F31	16 Aug 2022	86	10.56	91.13	4.3	33.75	7.8	25.9	0.34
F31	16 Aug 2022	87	10.53	91.39	4.3	33.76	7.8	25.9	0.32
F31	16 Aug 2022	88	10.51	91.34	4.2	33.77	7.8	25.9	0.33
F31	16 Aug 2022	89	10.45	91.06	4.2	33.80	7.8	25.9	0.31
F31	16 Aug 2022	90	10.41	91.13	4.1	33.82	7.8	26.0	0.32
F31	16 Aug 2022	91	10.33	91.22	4.0	33.86	7.8	26.0	0.30
F31	16 Aug 2022	92	10.28	91.53	3.9	33.88	7.8	26.0	0.29
F31	16 Aug 2022	93	10.23	91.83	3.8	33.91	7.8	26.1	0.28
F31	16 Aug 2022	94	10.22	92.00	3.8	33.93	7.8	26.1	0.28
F31	16 Aug 2022	95	10.21	91.97	3.7	33.94	7.8	26.1	0.26

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F31	16 Aug 2022	96	10.21	91.88	3.7	33.94	7.8	26.1	0.28
F31	16 Aug 2022	97	10.21	91.86	3.6	33.95	7.7	26.1	0.27
F31	16 Aug 2022	98	10.20	91.60	3.6	33.95	7.7	26.1	0.27
F31	16 Aug 2022	99	10.20	90.95	3.6	33.95	7.7	26.1	0.26
F32	16 Aug 2022	1	23.42	87.74	7.5	33.62	8.2	22.8	0.48
F32	16 Aug 2022	2	23.40	87.76	7.5	33.62	8.2	22.8	0.50
F32	16 Aug 2022	3	23.31	87.77	7.4	33.62	8.2	22.8	0.50
F32	16 Aug 2022	4	23.16	87.92	7.2	33.61	8.2	22.8	0.52
F32	16 Aug 2022	5	21.35	88.05	7.5	33.54	8.2	23.3	0.52
F32	16 Aug 2022	6	19.68	87.89	8.1	33.44	8.2	23.7	0.51
F32	16 Aug 2022	7	19.40	88.32	8.3	33.48	8.2	23.8	0.50
F32	16 Aug 2022	8	19.36	88.75	8.3	33.48	8.2	23.8	0.53
F32	16 Aug 2022	9	19.19	88.91	8.3	33.48	8.2	23.8	0.54
F32	16 Aug 2022	10	18.46	89.03	8.3	33.46	8.2	24.0	0.53
F32	16 Aug 2022	11	17.54	89.41	8.5	33.47	8.2	24.2	0.52
F32	16 Aug 2022	12	16.92	89.51	8.6	33.45	8.2	24.3	0.52
F32	16 Aug 2022	13	16.48	89.77	8.7	33.45	8.2	24.4	0.52
F32	16 Aug 2022	14	16.29	90.05	8.8	33.44	8.2	24.5	0.54
F32	16 Aug 2022	15	15.73	90.04	8.9	33.44	8.2	24.6	0.55
F32	16 Aug 2022	16	15.55	90.12	8.9	33.43	8.2	24.6	0.56
F32	16 Aug 2022	17	15.41	90.39	9.0	33.43	8.2	24.7	0.55
F32	16 Aug 2022	18	15.20	90.54	9.0	33.42	8.2	24.7	0.56
F32	16 Aug 2022	19	14.94	90.55	9.0	33.42	8.2	24.8	0.59
F32	16 Aug 2022	20	14.60	90.29	8.8	33.40	8.2	24.8	0.69
F32	16 Aug 2022	21	14.03	89.02	8.7	33.40	8.2	24.9	1.06
F32	16 Aug 2022	22	13.89	86.70	8.7	33.40	8.2	25.0	1.53
F32	16 Aug 2022	23	13.74	85.97	8.7	33.40	8.2	25.0	1.92
F32	16 Aug 2022	24	13.52	85.49	8.6	33.40	8.2	25.1	2.63
F32	16 Aug 2022	25	13.38	83.27	8.6	33.41	8.1	25.1	4.35
F32	16 Aug 2022	26	13.17	81.04	8.4	33.41	8.1	25.1	5.91
F32	16 Aug 2022	27	13.04	80.94	8.1	33.43	8.1	25.2	6.75
F32	16 Aug 2022	28	12.89	82.83	7.8	33.43	8.1	25.2	6.40
F32	16 Aug 2022	29	12.75	84.55	7.5	33.44	8.1	25.2	6.09
F32	16 Aug 2022	30	12.75	85.41	7.4	33.45	8.1	25.2	6.04
F32	16 Aug 2022	31	12.75	84.94	7.3	33.45	8.1	25.2	6.19
F32	16 Aug 2022	32	12.65	84.94	7.2	33.46	8.0	25.3	5.74
F32	16 Aug 2022	33	12.55	86.00	7.0	33.45	8.0	25.3	5.24
F32	16 Aug 2022	34	12.49	87.11	6.8	33.45	8.0	25.3	4.97
F32	16 Aug 2022	35	12.43	87.66	6.7	33.46	8.0	25.3	4.30
F32	16 Aug 2022	36	12.28	87.85	6.6	33.45	8.0	25.3	3.93
F32	16 Aug 2022	37	12.23	88.81	6.6	33.46	8.0	25.3	3.43
F32	16 Aug 2022	38	12.26	88.90	6.4	33.48	8.0	25.4	3.04
F32	16 Aug 2022	39	12.16	88.56	6.1	33.50	8.0	25.4	2.95
F32	16 Aug 2022	40	11.99	89.19	6.0	33.52	7.9	25.4	2.68
F32	16 Aug 2022	41	11.86	90.16	5.8	33.52	7.9	25.5	2.22
F32	16 Aug 2022	42	11.74	90.84	5.7	33.54	7.9	25.5	1.80
F32	16 Aug 2022	43	11.68	91.43	5.6	33.55	7.9	25.5	1.51
F32	16 Aug 2022	44	11.63	91.75	5.6	33.55	7.9	25.5	1.43
F32	16 Aug 2022	45	11.59	91.77	5.5	33.55	7.9	25.5	1.34
F32	16 Aug 2022	46	11.54	91.78	5.4	33.56	7.9	25.6	1.26
F32	16 Aug 2022	47	11.52	91.88	5.4	33.56	7.9	25.6	1.19
F32	16 Aug 2022	48	11.50	91.95	5.4	33.56	7.9	25.6	1.11
F32	16 Aug 2022	49	11.49	91.99	5.4	33.56	7.9	25.6	1.04
F32	16 Aug 2022	50	11.47	92.10	5.4	33.56	7.9	25.6	1.05
F32	16 Aug 2022	51	11.45	92.07	5.3	33.56	7.9	25.6	1.04
F32	16 Aug 2022	52	11.45	92.10	5.3	33.57	7.9	25.6	1.04
F32	16 Aug 2022	53	11.45	92.16	5.3	33.57	7.9	25.6	1.00
F32	16 Aug 2022	54	11.44	92.16	5.3	33.57	7.9	25.6	0.97
F32	16 Aug 2022	55	11.42	92.17	5.3	33.57	7.9	25.6	0.93
F32	16 Aug 2022	56	11.40	92.26	5.3	33.57	7.9	25.6	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F32	16 Aug 2022	57	11.39	92.28	5.3	33.57	7.9	25.6	0.97
F32	16 Aug 2022	58	11.37	92.29	5.2	33.57	7.9	25.6	0.85
F32	16 Aug 2022	59	11.34	92.29	5.2	33.58	7.9	25.6	0.85
F32	16 Aug 2022	60	11.32	92.30	5.2	33.58	7.9	25.6	0.84
F32	16 Aug 2022	61	11.30	92.26	5.2	33.58	7.8	25.6	0.80
F32	16 Aug 2022	62	11.26	92.18	5.1	33.58	7.8	25.6	0.82
F32	16 Aug 2022	63	11.22	92.21	5.0	33.58	7.8	25.6	0.82
F32	16 Aug 2022	64	11.16	92.20	5.0	33.59	7.8	25.6	0.80
F32	16 Aug 2022	65	11.11	92.27	5.0	33.60	7.8	25.7	0.74
F32	16 Aug 2022	66	11.05	92.30	4.9	33.61	7.8	25.7	0.68
F32	16 Aug 2022	67	11.03	92.44	4.9	33.62	7.8	25.7	0.68
F32	16 Aug 2022	68	11.00	92.52	4.9	33.62	7.8	25.7	0.63
F32	16 Aug 2022	69	10.98	92.48	4.8	33.62	7.8	25.7	0.61
F32	16 Aug 2022	70	10.93	92.50	4.8	33.62	7.8	25.7	0.59
F32	16 Aug 2022	71	10.87	92.53	4.8	33.63	7.8	25.7	0.56
F32	16 Aug 2022	72	10.86	92.57	4.8	33.64	7.8	25.7	0.51
F32	16 Aug 2022	73	10.85	92.54	4.8	33.64	7.8	25.7	0.51
F32	16 Aug 2022	74	10.84	92.47	4.7	33.65	7.8	25.7	0.49
F32	16 Aug 2022	75	10.82	92.40	4.7	33.65	7.8	25.8	0.50
F32	16 Aug 2022	76	10.80	92.27	4.6	33.65	7.8	25.8	0.46
F32	16 Aug 2022	77	10.78	92.17	4.6	33.67	7.8	25.8	0.45
F32	16 Aug 2022	78	10.77	92.25	4.6	33.67	7.8	25.8	0.44
F32	16 Aug 2022	79	10.76	92.27	4.6	33.68	7.8	25.8	0.44
F32	16 Aug 2022	80	10.75	92.32	4.6	33.68	7.8	25.8	0.42
F32	16 Aug 2022	81	10.74	92.35	4.6	33.69	7.8	25.8	0.43
F32	16 Aug 2022	82	10.72	92.42	4.5	33.69	7.8	25.8	0.43
F32	16 Aug 2022	83	10.70	92.47	4.5	33.70	7.8	25.8	0.43
F32	16 Aug 2022	84	10.69	92.48	4.5	33.70	7.8	25.8	0.40
F32	16 Aug 2022	85	10.67	92.50	4.5	33.71	7.8	25.8	0.39
F32	16 Aug 2022	86	10.65	92.52	4.5	33.72	7.8	25.8	0.39
F32	16 Aug 2022	87	10.63	92.51	4.4	33.73	7.8	25.8	0.38
F32	16 Aug 2022	88	10.62	92.48	4.4	33.73	7.8	25.9	0.37
F32	16 Aug 2022	89	10.60	92.32	4.4	33.74	7.8	25.9	0.37
F32	16 Aug 2022	90	10.60	92.16	4.4	33.74	7.8	25.9	0.38
F32	16 Aug 2022	91	10.58	92.23	4.4	33.74	7.8	25.9	0.37
F32	16 Aug 2022	92	10.54	92.21	4.3	33.76	7.8	25.9	0.37
F32	16 Aug 2022	93	10.45	92.17	4.2	33.80	7.8	25.9	0.35
F32	16 Aug 2022	94	10.41	92.26	4.2	33.82	7.8	26.0	0.33
F32	16 Aug 2022	95	10.38	92.26	4.1	33.83	7.8	26.0	0.33
F32	16 Aug 2022	96	10.34	92.19	4.0	33.85	7.8	26.0	0.32
F32	16 Aug 2022	97	10.28	91.97	3.9	33.88	7.8	26.0	0.32
F32	16 Aug 2022	98	10.22	91.93	3.8	33.91	7.8	26.1	0.31
F32	16 Aug 2022	99	10.20	92.01	3.8	33.92	7.7	26.1	0.30
F32	16 Aug 2022	100	10.19	91.90	3.8	33.93	7.7	26.1	0.29
F33	16 Aug 2022	1	23.32	87.70	7.6	33.62	8.2	22.8	0.44
F33	16 Aug 2022	2	23.31	89.11	7.5	33.62	8.2	22.8	0.44
F33	16 Aug 2022	3	23.25	88.78	7.4	33.62	8.2	22.8	0.48
F33	16 Aug 2022	4	22.62	88.92	7.5	33.59	8.2	23.0	0.48
F33	16 Aug 2022	5	22.12	89.27	7.6	33.58	8.2	23.1	0.50
F33	16 Aug 2022	6	20.60	89.08	7.9	33.53	8.2	23.5	0.53
F33	16 Aug 2022	7	19.64	88.58	8.0	33.47	8.2	23.7	0.53
F33	16 Aug 2022	8	18.59	88.76	8.3	33.44	8.2	23.9	0.54
F33	16 Aug 2022	9	18.34	89.19	8.4	33.43	8.2	24.0	0.51
F33	16 Aug 2022	10	17.87	89.26	8.4	33.42	8.2	24.1	0.49
F33	16 Aug 2022	11	17.66	89.52	8.4	33.46	8.2	24.2	0.50
F33	16 Aug 2022	12	16.68	89.74	8.5	33.44	8.2	24.4	0.50
F33	16 Aug 2022	13	16.02	89.82	8.7	33.43	8.2	24.5	0.52
F33	16 Aug 2022	14	15.79	90.13	8.8	33.43	8.2	24.6	0.53
F33	16 Aug 2022	15	15.55	90.22	8.9	33.43	8.2	24.6	0.55
F33	16 Aug 2022	16	15.23	90.33	8.9	33.43	8.2	24.7	0.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F33	16 Aug 2022	17	14.86	90.38	8.9	33.41	8.2	24.8	0.59
F33	16 Aug 2022	18	14.54	90.33	8.9	33.40	8.2	24.8	0.64
F33	16 Aug 2022	19	14.16	89.31	8.7	33.40	8.2	24.9	0.82
F33	16 Aug 2022	20	13.75	87.46	8.6	33.40	8.2	25.0	1.47
F33	16 Aug 2022	21	13.60	85.41	8.6	33.40	8.1	25.0	2.44
F33	16 Aug 2022	22	13.57	84.53	8.6	33.40	8.1	25.0	2.95
F33	16 Aug 2022	23	13.52	84.84	8.6	33.40	8.1	25.1	3.21
F33	16 Aug 2022	24	13.40	84.25	8.6	33.41	8.1	25.1	4.30
F33	16 Aug 2022	25	13.22	81.27	8.3	33.42	8.1	25.1	6.05
F33	16 Aug 2022	26	12.87	81.28	7.8	33.42	8.1	25.2	6.42
F33	16 Aug 2022	27	12.74	85.36	7.4	33.42	8.1	25.2	5.48
F33	16 Aug 2022	28	12.65	87.22	7.1	33.42	8.0	25.2	4.61
F33	16 Aug 2022	29	12.50	88.77	6.9	33.42	8.0	25.3	4.00
F33	16 Aug 2022	30	12.51	88.87	6.9	33.44	8.0	25.3	3.81
F33	16 Aug 2022	31	12.52	88.07	6.8	33.45	8.0	25.3	3.81
F33	16 Aug 2022	32	12.35	88.30	6.7	33.45	8.0	25.3	3.44
F33	16 Aug 2022	33	12.24	89.42	6.5	33.45	8.0	25.3	2.84
F33	16 Aug 2022	34	12.19	90.41	6.3	33.46	8.0	25.4	2.33
F33	16 Aug 2022	35	12.17	90.72	6.3	33.46	8.0	25.4	2.09
F33	16 Aug 2022	36	12.11	90.77	6.2	33.47	8.0	25.4	1.98
F33	16 Aug 2022	37	11.99	90.90	6.1	33.49	8.0	25.4	1.78
F33	16 Aug 2022	38	11.96	91.12	6.0	33.49	7.9	25.4	1.69
F33	16 Aug 2022	39	11.94	91.10	6.0	33.50	7.9	25.4	1.59
F33	16 Aug 2022	40	11.93	91.36	6.0	33.51	7.9	25.4	1.52
F33	16 Aug 2022	41	11.89	91.43	5.9	33.51	7.9	25.5	1.49
F33	16 Aug 2022	42	11.80	91.33	5.7	33.53	7.9	25.5	1.42
F33	16 Aug 2022	43	11.71	91.39	5.6	33.54	7.9	25.5	1.49
F33	16 Aug 2022	44	11.67	91.48	5.6	33.55	7.9	25.5	1.33
F33	16 Aug 2022	45	11.60	91.71	5.5	33.55	7.9	25.5	1.25
F33	16 Aug 2022	46	11.57	91.83	5.5	33.55	7.9	25.5	1.17
F33	16 Aug 2022	47	11.58	91.90	5.5	33.56	7.9	25.5	1.15
F33	16 Aug 2022	48	11.54	91.97	5.4	33.56	7.9	25.6	1.07
F33	16 Aug 2022	49	11.47	92.03	5.4	33.56	7.9	25.6	1.04
F33	16 Aug 2022	50	11.45	92.09	5.3	33.57	7.9	25.6	1.00
F33	16 Aug 2022	51	11.44	92.10	5.3	33.57	7.9	25.6	0.98
F33	16 Aug 2022	52	11.45	92.14	5.3	33.57	7.9	25.6	0.90
F33	16 Aug 2022	53	11.45	92.12	5.3	33.56	7.9	25.6	0.89
F33	16 Aug 2022	54	11.45	92.15	5.3	33.57	7.9	25.6	0.95
F33	16 Aug 2022	55	11.40	92.13	5.3	33.57	7.9	25.6	0.87
F33	16 Aug 2022	56	11.34	92.22	5.2	33.58	7.9	25.6	0.83
F33	16 Aug 2022	57	11.31	92.27	5.2	33.58	7.9	25.6	0.81
F33	16 Aug 2022	58	11.28	92.32	5.2	33.58	7.9	25.6	0.78
F33	16 Aug 2022	59	11.25	92.38	5.2	33.59	7.9	25.6	0.76
F33	16 Aug 2022	60	11.16	92.42	5.1	33.60	7.8	25.7	0.71
F33	16 Aug 2022	61	11.13	92.51	5.0	33.60	7.8	25.7	0.67
F33	16 Aug 2022	62	11.09	92.41	5.0	33.61	7.8	25.7	0.67
F33	16 Aug 2022	63	11.05	92.56	5.0	33.62	7.8	25.7	0.60
F33	16 Aug 2022	64	11.03	92.61	5.0	33.62	7.8	25.7	0.58
F33	16 Aug 2022	65	11.01	92.57	4.9	33.62	7.8	25.7	0.56
F33	16 Aug 2022	66	11.00	92.57	4.9	33.62	7.8	25.7	0.56
F33	16 Aug 2022	67	10.95	92.57	4.9	33.63	7.8	25.7	0.55
F33	16 Aug 2022	68	10.94	92.57	4.9	33.64	7.8	25.7	0.51
F33	16 Aug 2022	69	10.89	92.58	4.8	33.65	7.8	25.7	0.50
F33	16 Aug 2022	70	10.86	92.55	4.8	33.65	7.8	25.8	0.48
F33	16 Aug 2022	71	10.84	92.54	4.7	33.66	7.8	25.8	0.47
F33	16 Aug 2022	72	10.82	92.55	4.7	33.66	7.8	25.8	0.43
F33	16 Aug 2022	73	10.81	92.59	4.7	33.67	7.8	25.8	0.42
F33	16 Aug 2022	74	10.79	92.57	4.7	33.67	7.8	25.8	0.41
F33	16 Aug 2022	75	10.78	92.47	4.6	33.67	7.8	25.8	0.41
F33	16 Aug 2022	76	10.75	92.44	4.6	33.67	7.8	25.8	0.38
F33	16 Aug 2022	77	10.75	92.34	4.6	33.68	7.8	25.8	0.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F33	16 Aug 2022	78	10.74	92.44	4.6	33.69	7.8	25.8	0.39
F33	16 Aug 2022	79	10.73	92.47	4.5	33.69	7.8	25.8	0.37
F33	16 Aug 2022	80	10.72	92.51	4.5	33.70	7.8	25.8	0.36
F33	16 Aug 2022	81	10.70	92.49	4.5	33.70	7.8	25.8	0.36
F33	16 Aug 2022	82	10.68	92.41	4.5	33.71	7.8	25.8	0.35
F33	16 Aug 2022	83	10.65	92.41	4.5	33.72	7.8	25.8	0.34
F33	16 Aug 2022	84	10.64	92.22	4.5	33.72	7.8	25.8	0.33
F33	16 Aug 2022	85	10.63	92.16	4.4	33.72	7.8	25.8	0.32
F33	16 Aug 2022	86	10.63	92.15	4.4	33.72	7.8	25.8	0.32
F33	16 Aug 2022	87	10.62	92.10	4.4	33.73	7.8	25.8	0.31
F33	16 Aug 2022	88	10.61	92.13	4.4	33.73	7.8	25.9	0.32
F33	16 Aug 2022	89	10.62	92.02	4.4	33.73	7.8	25.9	0.33
F33	16 Aug 2022	90	10.56	92.21	4.4	33.75	7.8	25.9	0.30
F33	16 Aug 2022	91	10.54	92.23	4.3	33.76	7.8	25.9	0.30
F33	16 Aug 2022	92	10.52	92.14	4.3	33.77	7.8	25.9	0.30
F33	16 Aug 2022	93	10.51	92.06	4.3	33.77	7.8	25.9	0.29
F33	16 Aug 2022	94	10.42	92.07	4.2	33.82	7.8	26.0	0.29
F33	16 Aug 2022	95	10.37	92.15	4.1	33.84	7.8	26.0	0.27
F33	16 Aug 2022	96	10.35	92.13	4.0	33.85	7.8	26.0	0.27
F33	16 Aug 2022	97	10.32	91.88	4.0	33.86	7.8	26.0	0.26
F33	16 Aug 2022	98	10.30	91.79	3.9	33.88	7.8	26.0	0.25
F33	16 Aug 2022	99	10.26	92.03	3.9	33.90	7.8	26.0	0.24
F33	16 Aug 2022	100	10.18	91.78	3.8	33.93	7.7	26.1	0.26
F33	16 Aug 2022	101	10.17	91.08	3.7	33.94	7.7	26.1	0.24
F34	16 Aug 2022	1	23.45	89.42	7.4	33.63	8.2	22.8	0.45
F34	16 Aug 2022	2	23.09	89.57	7.3	33.61	8.2	22.9	0.46
F34	16 Aug 2022	3	21.54	89.48	7.6	33.56	8.2	23.2	0.46
F34	16 Aug 2022	4	20.19	89.01	8.0	33.54	8.2	23.6	0.49
F34	16 Aug 2022	5	19.31	88.74	8.3	33.49	8.2	23.8	0.47
F34	16 Aug 2022	6	18.88	88.90	8.2	33.46	8.2	23.9	0.46
F34	16 Aug 2022	7	18.06	88.98	8.2	33.39	8.2	24.0	0.45
F34	16 Aug 2022	8	17.26	89.26	8.6	33.38	8.2	24.2	0.44
F34	16 Aug 2022	9	17.30	89.76	8.6	33.38	8.2	24.2	0.44
F34	16 Aug 2022	10	17.13	89.96	8.6	33.40	8.2	24.3	0.44
F34	16 Aug 2022	11	16.97	89.94	8.6	33.43	8.2	24.3	0.46
F34	16 Aug 2022	12	16.56	90.20	8.8	33.46	8.2	24.4	0.47
F34	16 Aug 2022	13	16.35	90.13	8.8	33.46	8.2	24.5	0.49
F34	16 Aug 2022	14	16.18	90.14	8.8	33.47	8.2	24.5	0.49
F34	16 Aug 2022	15	15.85	90.24	8.9	33.48	8.2	24.6	0.54
F34	16 Aug 2022	16	15.62	90.25	8.8	33.47	8.2	24.7	0.56
F34	16 Aug 2022	17	15.06	90.35	8.8	33.43	8.2	24.8	0.59
F34	16 Aug 2022	18	14.49	90.51	8.7	33.40	8.2	24.8	0.62
F34	16 Aug 2022	19	13.74	90.36	8.6	33.39	8.2	25.0	1.20
F34	16 Aug 2022	20	13.47	86.46	8.5	33.40	8.1	25.1	2.58
F34	16 Aug 2022	21	13.61	84.67	8.3	33.38	8.1	25.0	3.14
F34	16 Aug 2022	22	13.31	84.42	8.4	33.40	8.1	25.1	3.78
F34	16 Aug 2022	23	13.30	84.27	8.4	33.40	8.1	25.1	4.25
F34	16 Aug 2022	24	13.30	84.17	8.4	33.40	8.1	25.1	4.57
F34	16 Aug 2022	25	13.31	84.25	8.4	33.41	8.1	25.1	4.83
F34	16 Aug 2022	26	13.31	84.25	8.3	33.41	8.1	25.1	4.96
F34	16 Aug 2022	27	13.21	84.33	8.2	33.42	8.1	25.1	4.91
F34	16 Aug 2022	28	13.13	84.04	8.1	33.43	8.1	25.2	5.32
F34	16 Aug 2022	29	12.92	82.75	7.9	33.44	8.1	25.2	6.05
F34	16 Aug 2022	30	12.80	83.23	7.6	33.44	8.1	25.2	6.15
F34	16 Aug 2022	31	12.75	84.58	7.4	33.44	8.0	25.2	5.92
F34	16 Aug 2022	32	12.72	85.60	7.2	33.44	8.0	25.2	5.41
F34	16 Aug 2022	33	12.56	86.84	7.0	33.44	8.0	25.3	4.83
F34	16 Aug 2022	34	12.46	88.04	6.8	33.44	8.0	25.3	3.90
F34	16 Aug 2022	35	12.38	88.72	6.7	33.44	8.0	25.3	3.55
F34	16 Aug 2022	36	12.28	89.34	6.5	33.45	8.0	25.3	2.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	16 Aug 2022	37	12.30	90.35	6.4	33.44	8.0	25.3	2.30
F34	16 Aug 2022	38	12.18	90.69	6.3	33.45	8.0	25.4	2.09
F34	16 Aug 2022	39	12.07	90.96	6.2	33.47	7.9	25.4	1.76
F34	16 Aug 2022	40	11.99	91.26	6.1	33.48	7.9	25.4	1.55
F34	16 Aug 2022	41	11.94	91.47	6.0	33.49	7.9	25.4	1.52
F34	16 Aug 2022	42	11.86	91.51	5.9	33.51	7.9	25.5	1.41
F34	16 Aug 2022	43	11.77	91.56	5.8	33.53	7.9	25.5	1.41
F34	16 Aug 2022	44	11.73	91.65	5.7	33.54	7.9	25.5	1.29
F34	16 Aug 2022	45	11.68	91.74	5.6	33.54	7.9	25.5	1.24
F34	16 Aug 2022	46	11.61	91.79	5.5	33.55	7.9	25.5	1.11
F34	16 Aug 2022	47	11.53	91.91	5.5	33.55	7.9	25.6	1.05
F34	16 Aug 2022	48	11.51	92.08	5.4	33.55	7.9	25.6	0.99
F34	16 Aug 2022	49	11.51	92.20	5.4	33.55	7.9	25.6	0.96
F34	16 Aug 2022	50	11.43	92.25	5.4	33.56	7.9	25.6	0.89
F34	16 Aug 2022	51	11.38	92.25	5.3	33.56	7.9	25.6	0.83
F34	16 Aug 2022	52	11.37	92.34	5.3	33.57	7.9	25.6	0.82
F34	16 Aug 2022	53	11.33	92.35	5.3	33.57	7.9	25.6	0.79
F34	16 Aug 2022	54	11.33	92.38	5.3	33.57	7.9	25.6	0.75
F34	16 Aug 2022	55	11.32	92.39	5.3	33.57	7.9	25.6	0.73
F34	16 Aug 2022	56	11.28	92.39	5.2	33.58	7.8	25.6	0.72
F34	16 Aug 2022	57	11.25	92.39	5.2	33.58	7.8	25.6	0.70
F34	16 Aug 2022	58	11.19	92.42	5.2	33.59	7.8	25.6	0.66
F34	16 Aug 2022	59	11.18	92.41	5.1	33.59	7.8	25.6	0.65
F34	16 Aug 2022	60	11.17	92.40	5.1	33.59	7.8	25.6	0.64
F34	16 Aug 2022	61	11.14	92.42	5.0	33.60	7.8	25.7	0.63
F34	16 Aug 2022	62	11.12	92.46	5.0	33.60	7.8	25.7	0.62
F34	16 Aug 2022	63	11.05	92.48	5.0	33.62	7.8	25.7	0.59
F34	16 Aug 2022	64	11.03	92.53	5.0	33.62	7.8	25.7	0.55
F34	16 Aug 2022	65	11.00	92.52	4.9	33.62	7.8	25.7	0.56
F34	16 Aug 2022	66	10.95	92.52	4.9	33.63	7.8	25.7	0.53
F34	16 Aug 2022	67	10.90	92.55	4.8	33.65	7.8	25.7	0.51
F34	16 Aug 2022	68	10.89	92.53	4.8	33.65	7.8	25.7	0.46
F34	16 Aug 2022	69	10.81	92.49	4.7	33.66	7.8	25.8	0.44
F34	16 Aug 2022	70	10.80	92.46	4.7	33.67	7.8	25.8	0.41
F34	16 Aug 2022	71	10.79	92.40	4.6	33.67	7.8	25.8	0.37
F34	16 Aug 2022	72	10.76	92.43	4.6	33.69	7.8	25.8	0.37
F34	16 Aug 2022	73	10.74	92.44	4.6	33.69	7.8	25.8	0.37
F34	16 Aug 2022	74	10.73	92.44	4.5	33.69	7.8	25.8	0.34
F34	16 Aug 2022	75	10.73	92.42	4.5	33.70	7.8	25.8	0.33
F34	16 Aug 2022	76	10.72	92.38	4.5	33.70	7.8	25.8	0.33
F34	16 Aug 2022	77	10.72	92.35	4.5	33.70	7.8	25.8	0.32
F34	16 Aug 2022	78	10.71	92.28	4.5	33.70	7.8	25.8	0.32
F34	16 Aug 2022	79	10.70	92.42	4.5	33.71	7.8	25.8	0.32
F34	16 Aug 2022	80	10.70	92.42	4.5	33.71	7.8	25.8	0.33
F34	16 Aug 2022	81	10.69	92.45	4.5	33.71	7.8	25.8	0.32
F34	16 Aug 2022	82	10.68	92.46	4.5	33.71	7.8	25.8	0.31
F34	16 Aug 2022	83	10.66	92.42	4.5	33.72	7.8	25.8	0.30
F34	16 Aug 2022	84	10.63	92.35	4.5	33.72	7.8	25.8	0.31
F34	16 Aug 2022	85	10.62	92.41	4.4	33.73	7.8	25.9	0.31
F34	16 Aug 2022	86	10.61	92.39	4.4	33.73	7.8	25.9	0.30
F34	16 Aug 2022	87	10.60	92.38	4.4	33.73	7.8	25.9	0.29
F34	16 Aug 2022	88	10.58	92.31	4.4	33.74	7.8	25.9	0.29
F34	16 Aug 2022	89	10.57	92.22	4.4	33.75	7.8	25.9	0.28
F34	16 Aug 2022	90	10.55	92.10	4.3	33.75	7.8	25.9	0.28
F34	16 Aug 2022	91	10.52	91.54	4.3	33.77	7.8	25.9	0.28
F34	16 Aug 2022	92	10.51	91.13	4.3	33.77	7.8	25.9	0.27
F34	16 Aug 2022	93	10.48	91.15	4.2	33.78	7.8	25.9	0.26
F34	16 Aug 2022	94	10.44	90.95	4.1	33.80	7.8	25.9	0.26
F34	16 Aug 2022	95	10.38	90.86	4.1	33.84	7.8	26.0	0.25
F34	16 Aug 2022	96	10.36	91.31	4.0	33.85	7.8	26.0	0.24
F34	16 Aug 2022	97	10.34	91.61	4.0	33.85	7.8	26.0	0.24

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F34	16 Aug 2022	98	10.33	91.32	4.0	33.86	7.8	26.0	0.23
F34	16 Aug 2022	99	10.33	90.97	4.0	33.86	7.7	26.0	0.25
F34	16 Aug 2022	100	10.34	90.46	4.0	33.86	7.7	26.0	0.23
F35	16 Aug 2022	1	22.49	88.70	7.7	33.60	8.2	23.0	0.41
F35	16 Aug 2022	2	22.11	88.89	7.7	33.60	8.2	23.1	0.42
F35	16 Aug 2022	3	22.06	88.88	7.5	33.58	8.2	23.1	0.44
F35	16 Aug 2022	4	20.49	88.86	7.8	33.46	8.2	23.5	0.45
F35	16 Aug 2022	5	19.33	88.53	8.2	33.48	8.2	23.8	0.49
F35	16 Aug 2022	6	19.01	88.29	8.1	33.42	8.2	23.8	0.49
F35	16 Aug 2022	7	17.93	88.76	8.4	33.38	8.2	24.0	0.48
F35	16 Aug 2022	8	17.69	89.27	8.3	33.30	8.2	24.0	0.49
F35	16 Aug 2022	9	16.77	89.67	8.5	33.31	8.2	24.3	0.45
F35	16 Aug 2022	10	16.80	90.65	8.6	33.32	8.2	24.3	0.43
F35	16 Aug 2022	11	16.73	90.69	8.5	33.33	8.2	24.3	0.44
F35	16 Aug 2022	12	16.68	90.77	8.7	33.44	8.2	24.4	0.46
F35	16 Aug 2022	13	16.60	90.72	8.7	33.49	8.2	24.4	0.50
F35	16 Aug 2022	14	16.57	90.58	8.8	33.50	8.2	24.5	0.54
F35	16 Aug 2022	15	16.55	90.64	8.8	33.51	8.2	24.5	0.55
F35	16 Aug 2022	16	16.16	90.72	8.9	33.49	8.2	24.5	0.54
F35	16 Aug 2022	17	15.98	90.91	8.9	33.49	8.2	24.6	0.54
F35	16 Aug 2022	18	15.28	90.77	8.9	33.44	8.2	24.7	0.59
F35	16 Aug 2022	19	14.81	90.59	9.0	33.42	8.2	24.8	0.59
F35	16 Aug 2022	20	14.52	90.41	8.9	33.41	8.2	24.9	0.65
F35	16 Aug 2022	21	14.29	89.59	8.6	33.41	8.1	24.9	0.81
F35	16 Aug 2022	22	13.84	86.79	8.3	33.38	8.1	25.0	1.59
F35	16 Aug 2022	23	13.33	86.70	8.0	33.38	8.1	25.1	2.69
F35	16 Aug 2022	24	13.26	86.91	7.9	33.38	8.1	25.1	3.33
F35	16 Aug 2022	25	13.17	86.55	7.9	33.40	8.1	25.1	3.90
F35	16 Aug 2022	26	13.14	85.49	8.0	33.41	8.1	25.1	4.43
F35	16 Aug 2022	27	13.13	84.90	7.9	33.41	8.1	25.1	5.03
F35	16 Aug 2022	28	12.95	85.42	7.7	33.41	8.1	25.2	4.88
F35	16 Aug 2022	29	12.81	86.41	7.4	33.42	8.0	25.2	4.62
F35	16 Aug 2022	30	12.75	86.84	7.3	33.43	8.0	25.2	4.95
F35	16 Aug 2022	31	12.71	86.66	7.3	33.44	8.0	25.2	5.01
F35	16 Aug 2022	32	12.66	86.55	7.2	33.45	8.0	25.3	4.88
F35	16 Aug 2022	33	12.62	86.87	7.0	33.44	8.0	25.3	4.72
F35	16 Aug 2022	34	12.43	87.65	6.8	33.43	8.0	25.3	4.07
F35	16 Aug 2022	35	12.42	89.08	6.7	33.44	8.0	25.3	3.25
F35	16 Aug 2022	36	12.44	88.96	6.6	33.44	8.0	25.3	2.88
F35	16 Aug 2022	37	12.31	89.46	6.5	33.45	8.0	25.3	2.74
F35	16 Aug 2022	38	12.28	89.86	6.4	33.45	8.0	25.3	2.69
F35	16 Aug 2022	39	12.27	89.97	6.4	33.45	8.0	25.3	2.67
F35	16 Aug 2022	40	12.20	89.75	6.3	33.46	8.0	25.4	2.64
F35	16 Aug 2022	41	12.12	89.93	6.2	33.48	7.9	25.4	2.32
F35	16 Aug 2022	42	12.06	90.36	6.2	33.48	7.9	25.4	2.11
F35	16 Aug 2022	43	11.97	90.69	6.0	33.48	7.9	25.4	2.08
F35	16 Aug 2022	44	11.87	91.24	5.9	33.50	7.9	25.4	1.56
F35	16 Aug 2022	45	11.83	91.55	5.8	33.51	7.9	25.5	1.35
F35	16 Aug 2022	46	11.74	91.68	5.7	33.52	7.9	25.5	1.26
F35	16 Aug 2022	47	11.71	91.75	5.6	33.53	7.9	25.5	1.16
F35	16 Aug 2022	48	11.57	91.84	5.5	33.54	7.9	25.5	1.07
F35	16 Aug 2022	49	11.49	91.95	5.5	33.55	7.9	25.6	0.98
F35	16 Aug 2022	50	11.45	92.05	5.4	33.55	7.9	25.6	0.90
F35	16 Aug 2022	51	11.42	92.15	5.4	33.56	7.9	25.6	0.90
F35	16 Aug 2022	52	11.40	92.26	5.4	33.56	7.9	25.6	0.82
F35	16 Aug 2022	53	11.40	92.26	5.3	33.56	7.9	25.6	0.76
F35	16 Aug 2022	54	11.36	92.29	5.3	33.56	7.9	25.6	0.73
F35	16 Aug 2022	55	11.33	92.33	5.2	33.57	7.8	25.6	0.70
F35	16 Aug 2022	56	11.30	92.35	5.2	33.58	7.8	25.6	0.71
F35	16 Aug 2022	57	11.25	92.38	5.2	33.58	7.8	25.6	0.70

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
F35	16 Aug 2022	58	11.23	92.45	5.2	33.59	7.8	25.6	0.67
F35	16 Aug 2022	59	11.23	92.49	5.2	33.59	7.8	25.6	0.64
F35	16 Aug 2022	60	11.22	92.50	5.2	33.59	7.8	25.6	0.61
F35	16 Aug 2022	61	11.21	92.48	5.1	33.59	7.8	25.6	0.67
F35	16 Aug 2022	62	11.19	92.50	5.1	33.59	7.8	25.6	0.63
F35	16 Aug 2022	63	11.19	92.51	5.1	33.59	7.8	25.6	0.63
F35	16 Aug 2022	64	11.15	92.53	5.1	33.60	7.8	25.7	0.60
F35	16 Aug 2022	65	11.13	92.57	5.0	33.60	7.8	25.7	0.58
F35	16 Aug 2022	66	11.05	92.58	5.0	33.61	7.8	25.7	0.58
F35	16 Aug 2022	67	11.02	92.54	5.0	33.62	7.8	25.7	0.57
F35	16 Aug 2022	68	11.01	92.52	4.9	33.62	7.8	25.7	0.52
F35	16 Aug 2022	69	11.01	92.54	4.9	33.62	7.8	25.7	0.52
F35	16 Aug 2022	70	11.00	92.54	4.9	33.62	7.8	25.7	0.51
F35	16 Aug 2022	71	10.98	92.50	4.9	33.62	7.8	25.7	0.51
F35	16 Aug 2022	72	10.95	92.51	4.8	33.63	7.8	25.7	0.47
F35	16 Aug 2022	73	10.91	92.52	4.8	33.63	7.8	25.7	0.46
F35	16 Aug 2022	74	10.86	92.40	4.7	33.64	7.8	25.7	0.41
F35	16 Aug 2022	75	10.85	92.34	4.7	33.64	7.8	25.7	0.38
F35	16 Aug 2022	76	10.84	92.30	4.6	33.64	7.8	25.7	0.37
F35	16 Aug 2022	77	10.84	92.31	4.6	33.64	7.8	25.7	0.35
F35	16 Aug 2022	78	10.84	92.32	4.6	33.64	7.8	25.7	0.37
F35	16 Aug 2022	79	10.83	92.32	4.6	33.64	7.8	25.7	0.34
F35	16 Aug 2022	80	10.83	92.31	4.6	33.64	7.8	25.7	0.34
F35	16 Aug 2022	81	10.83	92.30	4.6	33.64	7.8	25.8	0.34
F35	16 Aug 2022	82	10.82	92.20	4.6	33.65	7.8	25.8	0.34
F35	16 Aug 2022	83	10.81	92.14	4.6	33.65	7.8	25.8	0.34
F35	16 Aug 2022	84	10.77	92.06	4.5	33.65	7.8	25.8	0.32
F35	16 Aug 2022	85	10.74	92.03	4.5	33.66	7.8	25.8	0.31
F35	16 Aug 2022	86	10.74	91.97	4.5	33.67	7.8	25.8	0.32
F35	16 Aug 2022	87	10.73	91.98	4.5	33.67	7.8	25.8	0.29
F35	16 Aug 2022	88	10.73	92.04	4.5	33.68	7.8	25.8	0.29
F35	16 Aug 2022	89	10.66	92.07	4.5	33.69	7.8	25.8	0.29
F35	16 Aug 2022	90	10.64	91.86	4.4	33.70	7.8	25.8	0.28
F35	16 Aug 2022	91	10.61	92.01	4.4	33.72	7.8	25.8	0.26
F35	16 Aug 2022	92	10.61	92.11	4.4	33.72	7.8	25.8	0.26
F35	16 Aug 2022	93	10.57	92.13	4.4	33.74	7.8	25.9	0.26
F35	16 Aug 2022	94	10.55	92.09	4.3	33.75	7.8	25.9	0.26
F35	16 Aug 2022	95	10.53	91.65	4.3	33.76	7.8	25.9	0.24
F35	16 Aug 2022	96	10.53	91.21	4.3	33.76	7.8	25.9	0.25
F35	16 Aug 2022	97	10.53	90.77	4.3	33.76	7.8	25.9	0.25
F35	16 Aug 2022	98	10.53	90.21	4.3	33.76	7.8	25.9	0.23
F35	16 Aug 2022	99	10.53	89.85	4.3	33.76	7.8	25.9	0.24
F36	16 Aug 2022	1	23.42	89.90	7.3	33.64	8.2	22.8	0.43
F36	16 Aug 2022	2	23.42	89.99	7.2	33.64	8.2	22.8	0.45
F36	16 Aug 2022	3	22.88	89.82	7.2	33.62	8.2	22.9	0.46
F36	16 Aug 2022	4	21.75	89.87	7.7	33.60	8.2	23.2	0.44
F36	16 Aug 2022	5	21.10	89.59	7.8	33.58	8.2	23.4	0.51
F36	16 Aug 2022	6	19.43	88.90	8.2	33.52	8.2	23.8	0.56
F36	16 Aug 2022	7	18.98	88.72	8.3	33.47	8.2	23.9	0.53
F36	16 Aug 2022	8	18.27	89.02	8.4	33.45	8.2	24.0	0.58
F36	16 Aug 2022	9	17.49	89.35	8.6	33.45	8.2	24.2	0.55
F36	16 Aug 2022	10	17.23	89.40	8.7	33.45	8.2	24.3	0.56
F36	16 Aug 2022	11	17.12	89.65	8.8	33.47	8.2	24.3	0.57
F36	16 Aug 2022	12	17.01	89.60	8.8	33.47	8.2	24.3	0.54
F36	16 Aug 2022	13	16.91	89.76	8.8	33.49	8.2	24.4	0.58
F36	16 Aug 2022	14	16.82	89.89	8.8	33.51	8.2	24.4	0.56
F36	16 Aug 2022	15	16.42	89.96	8.9	33.50	8.2	24.5	0.54
F36	16 Aug 2022	16	16.20	90.20	8.9	33.49	8.2	24.5	0.54
F36	16 Aug 2022	17	15.74	90.70	8.9	33.47	8.2	24.6	0.54
F36	16 Aug 2022	18	15.11	90.88	9.1	33.43	8.2	24.7	0.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
F36	16 Aug 2022	19	14.92	90.77	9.1	33.42	8.2	24.8	0.59
F36	16 Aug 2022	20	14.71	90.55	9.0	33.41	8.1	24.8	0.66
F36	16 Aug 2022	21	14.48	90.25	8.8	33.41	8.1	24.9	0.72
F36	16 Aug 2022	22	14.23	89.60	8.7	33.41	8.1	24.9	1.18
F36	16 Aug 2022	23	13.92	88.49	8.4	33.39	8.1	25.0	2.13
F36	16 Aug 2022	24	13.44	87.18	8.0	33.36	8.1	25.0	2.76
F36	16 Aug 2022	25	13.29	87.80	7.8	33.36	8.1	25.1	3.05
F36	16 Aug 2022	26	13.23	87.99	7.8	33.38	8.1	25.1	3.43
F36	16 Aug 2022	27	13.18	87.06	8.1	33.41	8.1	25.1	4.41
F36	16 Aug 2022	28	13.24	85.19	8.2	33.40	8.1	25.1	5.13
F36	16 Aug 2022	29	13.13	84.12	8.2	33.42	8.1	25.1	5.48
F36	16 Aug 2022	30	13.05	83.72	8.1	33.42	8.1	25.2	5.63
F36	16 Aug 2022	31	13.02	83.89	8.0	33.42	8.1	25.2	6.00
F36	16 Aug 2022	32	12.78	84.44	7.7	33.43	8.0	25.2	5.81
F36	16 Aug 2022	33	12.57	84.91	7.5	33.44	8.0	25.3	5.83
F36	16 Aug 2022	34	12.55	85.40	7.3	33.45	8.0	25.3	5.51
F36	16 Aug 2022	35	12.52	86.04	7.0	33.47	8.0	25.3	4.94
F36	16 Aug 2022	36	12.42	86.78	6.8	33.48	8.0	25.3	4.69
F36	16 Aug 2022	37	12.36	87.45	6.6	33.49	8.0	25.3	4.20
F36	16 Aug 2022	38	12.33	87.64	6.5	33.49	8.0	25.4	4.13
F36	16 Aug 2022	39	12.32	87.68	6.5	33.49	7.9	25.4	3.77
F36	16 Aug 2022	40	12.32	87.94	6.4	33.49	7.9	25.4	3.71
F36	16 Aug 2022	41	12.23	88.20	6.3	33.48	7.9	25.4	3.56
F36	16 Aug 2022	42	12.15	88.89	6.3	33.48	7.9	25.4	3.21
F36	16 Aug 2022	43	12.11	89.51	6.1	33.50	7.9	25.4	2.75
F36	16 Aug 2022	44	11.84	89.83	5.9	33.51	7.9	25.5	2.22
F36	16 Aug 2022	45	11.76	90.78	5.8	33.52	7.9	25.5	1.64
F36	16 Aug 2022	46	11.74	91.31	5.7	33.52	7.9	25.5	1.36
F36	16 Aug 2022	47	11.73	91.50	5.7	33.53	7.9	25.5	1.31
F36	16 Aug 2022	48	11.71	91.57	5.7	33.53	7.9	25.5	1.32
F36	16 Aug 2022	49	11.70	91.49	5.6	33.53	7.9	25.5	1.31
F36	16 Aug 2022	50	11.66	91.57	5.6	33.53	7.9	25.5	1.19
F36	16 Aug 2022	51	11.61	91.67	5.5	33.54	7.9	25.5	1.12
F36	16 Aug 2022	52	11.58	91.82	5.5	33.55	7.9	25.5	1.03
F36	16 Aug 2022	53	11.51	91.94	5.4	33.56	7.8	25.6	0.92
F36	16 Aug 2022	54	11.48	92.07	5.4	33.56	7.8	25.6	0.94
F36	16 Aug 2022	55	11.41	92.14	5.3	33.57	7.8	25.6	0.86
F36	16 Aug 2022	56	11.28	92.16	5.3	33.58	7.8	25.6	0.83
F36	16 Aug 2022	57	11.25	92.31	5.2	33.59	7.8	25.6	0.78
F36	16 Aug 2022	58	11.23	92.31	5.2	33.59	7.8	25.6	0.72
F36	16 Aug 2022	59	11.18	92.41	5.1	33.60	7.8	25.7	0.66
F36	16 Aug 2022	60	11.12	92.47	5.1	33.61	7.8	25.7	0.64
F36	16 Aug 2022	61	10.98	92.54	5.0	33.63	7.8	25.7	0.58
F36	16 Aug 2022	62	10.96	92.53	4.9	33.63	7.8	25.7	0.54
F36	16 Aug 2022	63	10.95	92.54	4.9	33.63	7.8	25.7	0.51
F36	16 Aug 2022	64	10.94	92.54	4.8	33.63	7.8	25.7	0.49
F36	16 Aug 2022	65	10.94	92.53	4.8	33.63	7.8	25.7	0.49
F36	16 Aug 2022	66	10.93	92.52	4.8	33.63	7.8	25.7	0.48
F36	16 Aug 2022	67	10.93	92.52	4.8	33.63	7.8	25.7	0.48
F36	16 Aug 2022	68	10.93	92.50	4.8	33.63	7.8	25.7	0.49
F36	16 Aug 2022	69	10.93	92.54	4.8	33.63	7.8	25.7	0.48
F36	16 Aug 2022	70	10.93	92.52	4.8	33.63	7.8	25.7	0.47
F36	16 Aug 2022	71	10.92	92.52	4.8	33.63	7.8	25.7	0.48
F36	16 Aug 2022	72	10.91	92.54	4.8	33.63	7.8	25.7	0.47
F36	16 Aug 2022	73	10.90	92.58	4.8	33.63	7.8	25.7	0.46
F36	16 Aug 2022	74	10.89	92.61	4.8	33.64	7.8	25.7	0.45
F36	16 Aug 2022	75	10.86	92.64	4.8	33.64	7.8	25.7	0.43
F36	16 Aug 2022	76	10.78	92.69	4.7	33.66	7.8	25.8	0.39
F36	16 Aug 2022	77	10.74	92.57	4.6	33.66	7.8	25.8	0.35
F36	16 Aug 2022	78	10.72	92.55	4.6	33.67	7.8	25.8	0.33
F36	16 Aug 2022	79	10.69	92.56	4.6	33.67	7.8	25.8	0.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
F36	16 Aug 2022	80	10.66	92.51	4.5	33.68	7.8	25.8	0.30
F36	16 Aug 2022	81	10.66	92.38	4.5	33.68	7.8	25.8	0.28
F36	16 Aug 2022	82	10.65	92.19	4.4	33.69	7.8	25.8	0.27
F36	16 Aug 2022	83	10.65	92.07	4.4	33.69	7.8	25.8	0.27
F36	16 Aug 2022	84	10.65	91.70	4.4	33.69	7.8	25.8	0.27
F36	16 Aug 2022	85	10.65	91.46	4.4	33.69	7.8	25.8	0.26
F36	16 Aug 2022	86	10.64	91.25	4.4	33.70	7.7	25.8	0.26
F36	16 Aug 2022	87	10.62	90.91	4.3	33.70	7.7	25.8	0.26
F36	16 Aug 2022	88	10.60	90.55	4.3	33.71	7.7	25.8	0.26
F36	16 Aug 2022	89	10.60	90.42	4.3	33.71	7.7	25.8	0.26
F36	16 Aug 2022	90	10.59	90.30	4.3	33.72	7.7	25.8	0.25
F36	16 Aug 2022	91	10.55	90.16	4.2	33.73	7.7	25.9	0.25
F36	16 Aug 2022	92	10.51	89.75	4.2	33.76	7.7	25.9	0.25
F36	16 Aug 2022	93	10.46	89.74	4.2	33.78	7.7	25.9	0.24
F36	16 Aug 2022	94	10.44	90.10	4.1	33.79	7.7	25.9	0.25
F36	16 Aug 2022	95	10.43	90.29	4.1	33.80	7.7	25.9	0.23
F36	16 Aug 2022	96	10.42	90.57	4.1	33.81	7.7	25.9	0.23
F36	16 Aug 2022	97	10.37	90.99	4.1	33.84	7.7	26.0	0.28
F36	16 Aug 2022	98	10.36	91.39	4.0	33.84	7.7	26.0	0.28
F36	16 Aug 2022	99	10.36	91.43	4.0	33.84	7.7	26.0	0.22
F36	16 Aug 2022	100	10.36	91.42	4.0	33.84	7.7	26.0	0.22

NA = not available

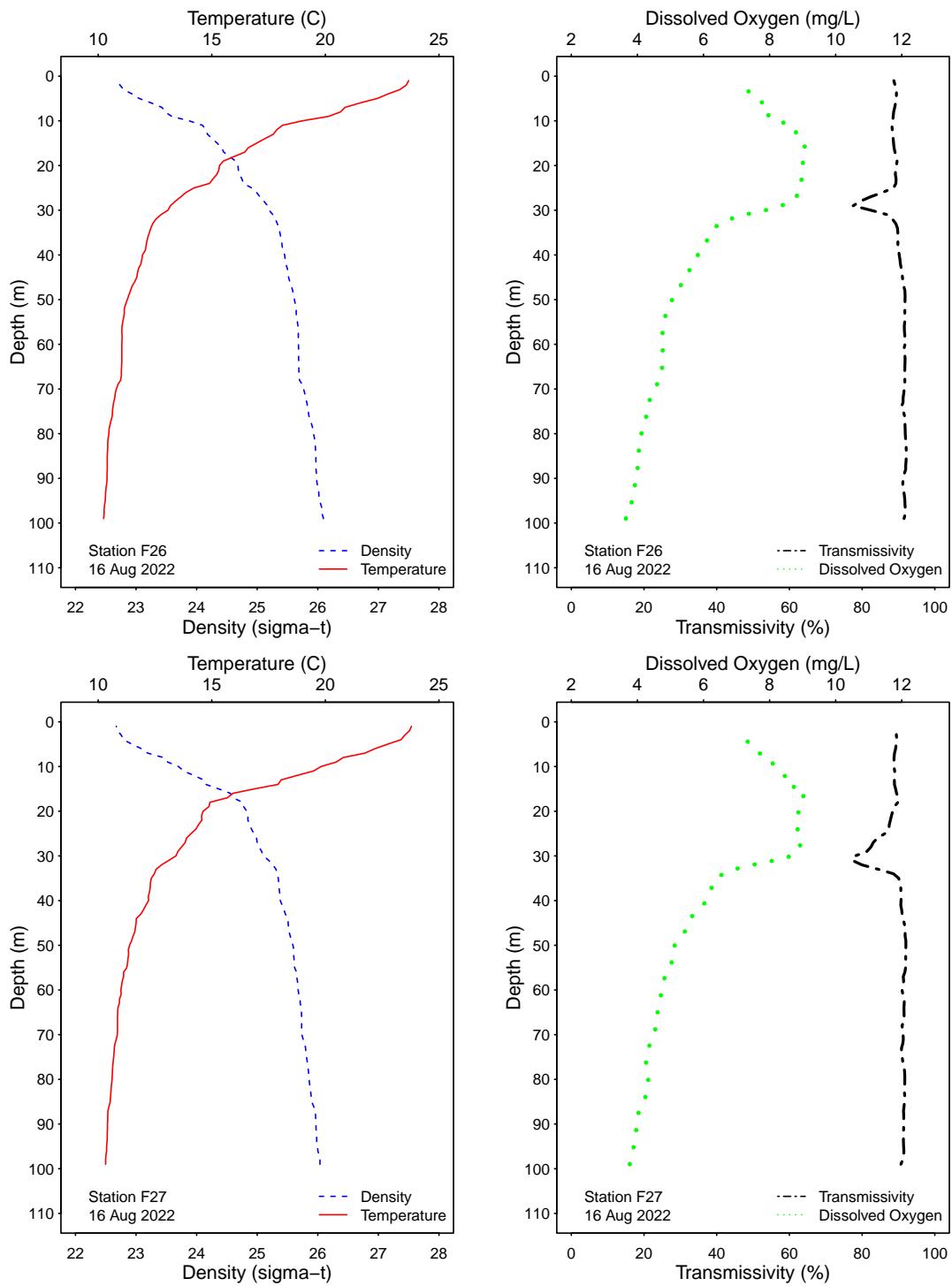


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

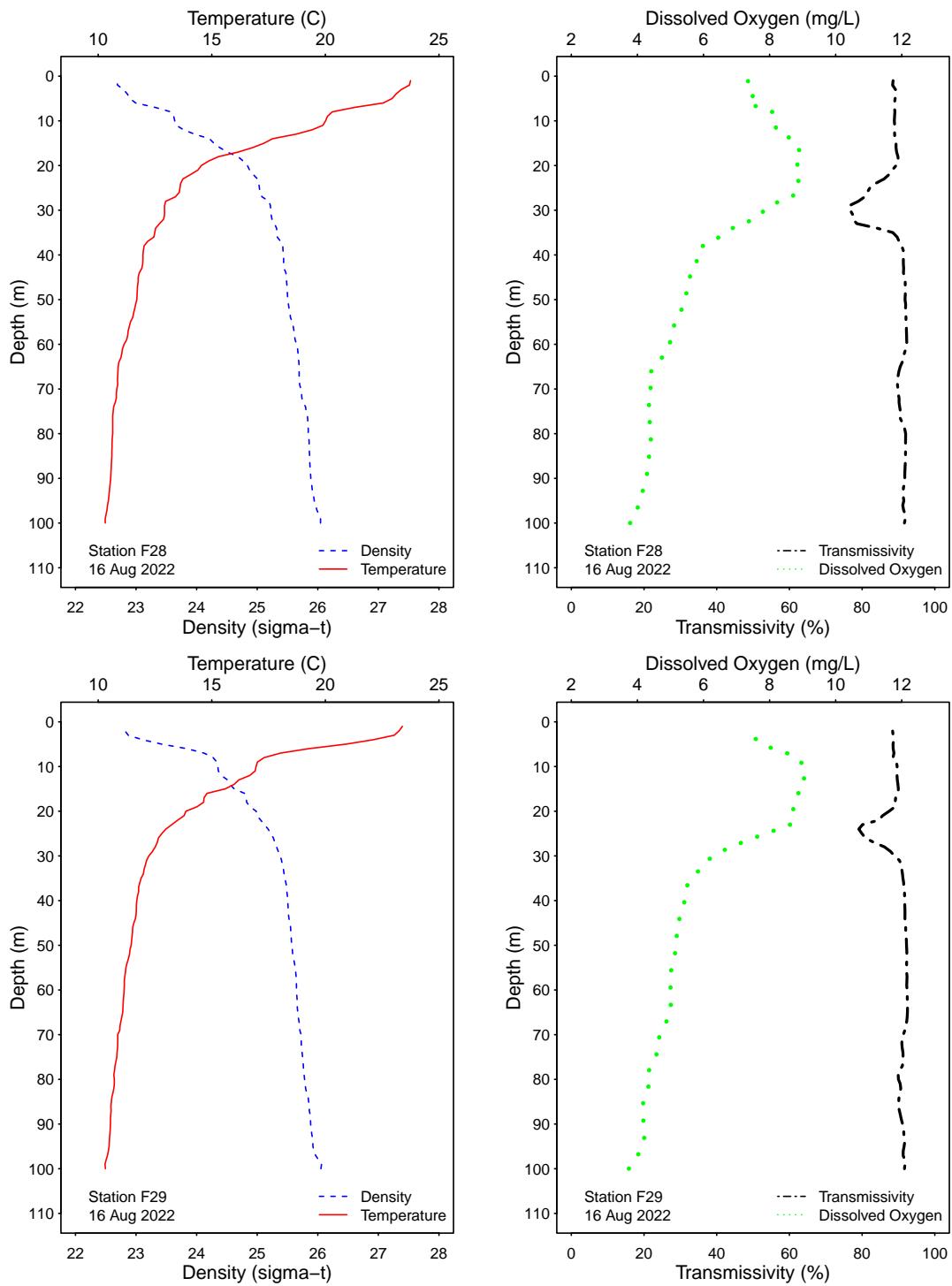


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

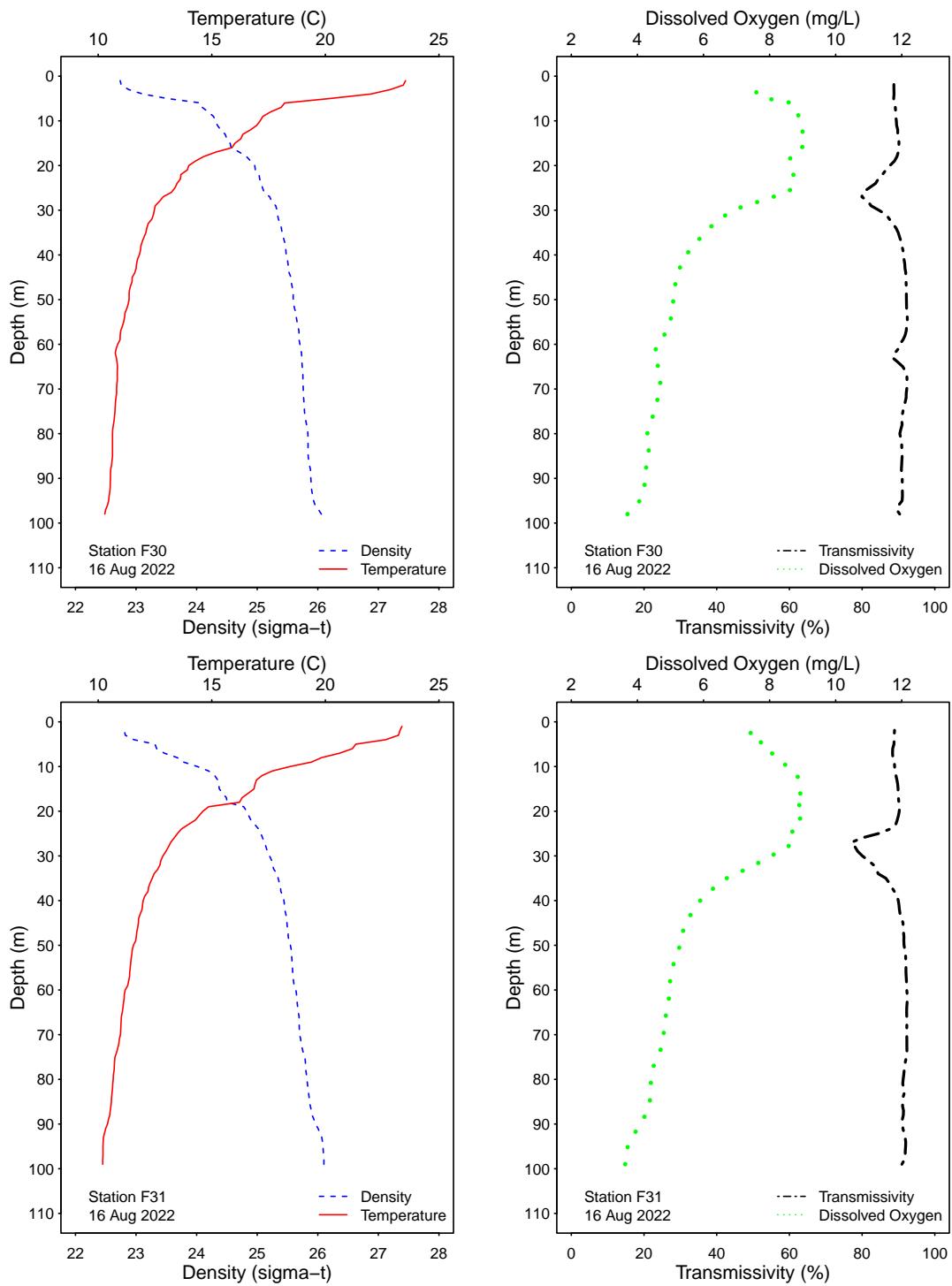


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

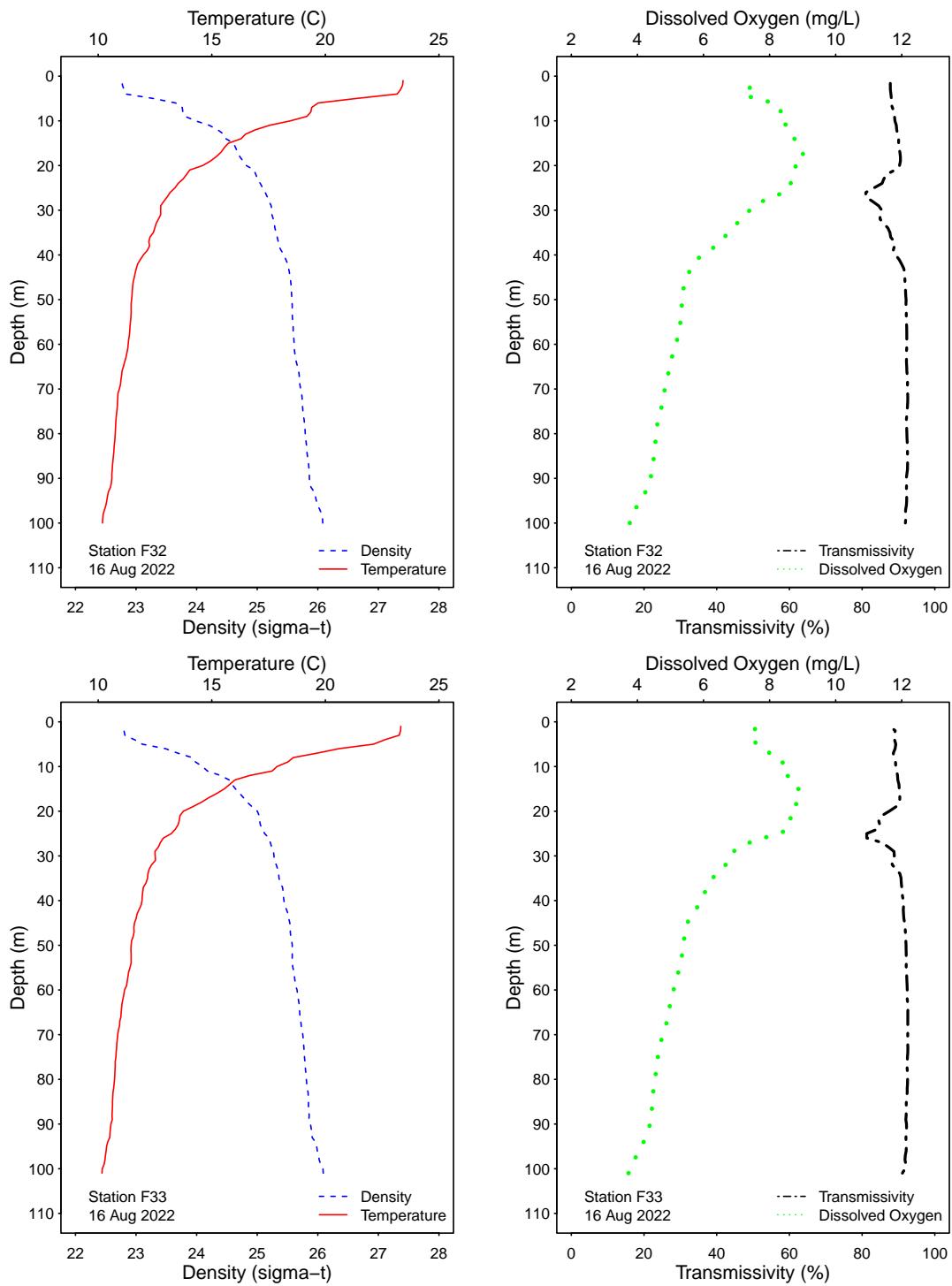


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

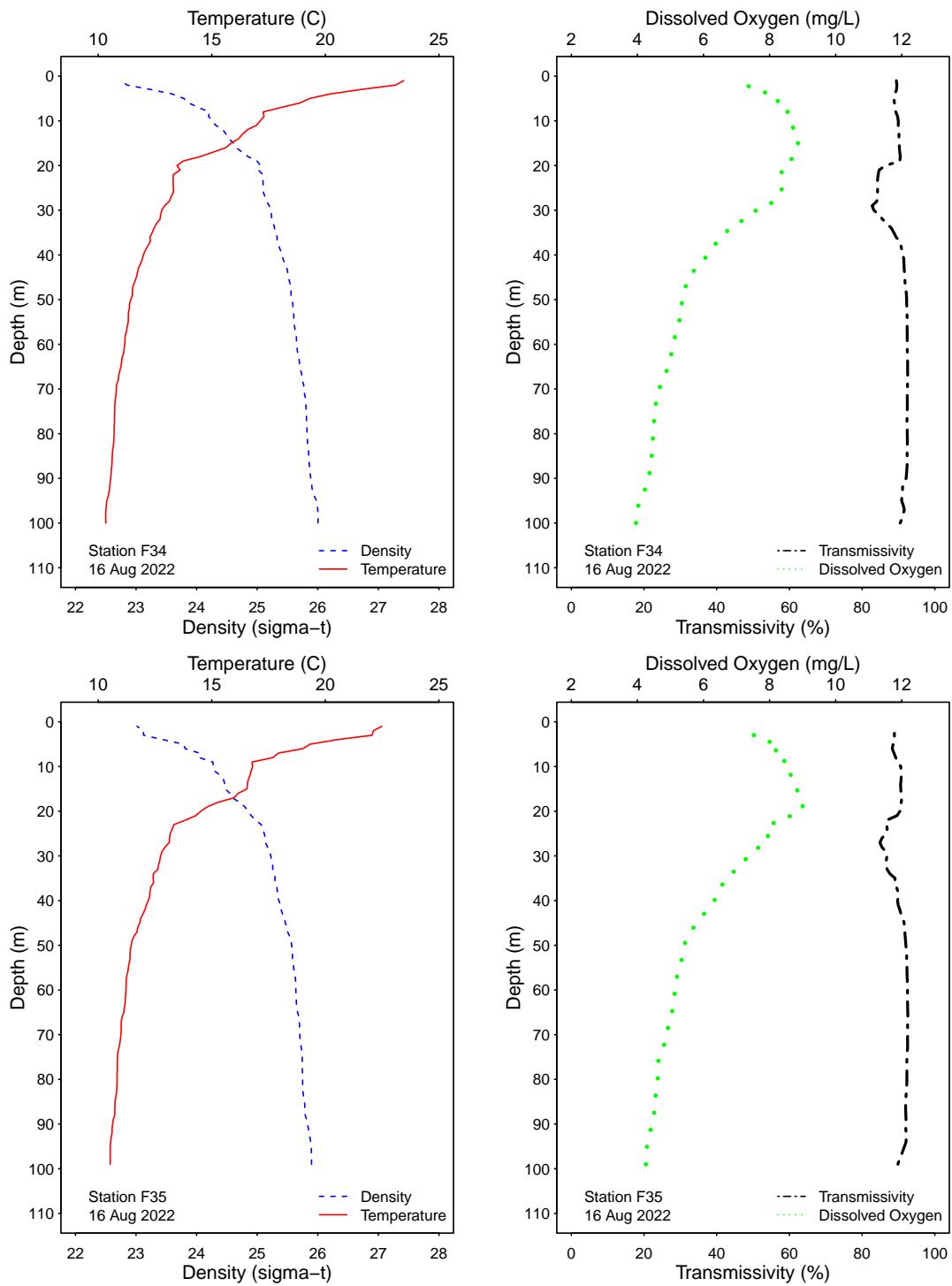


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

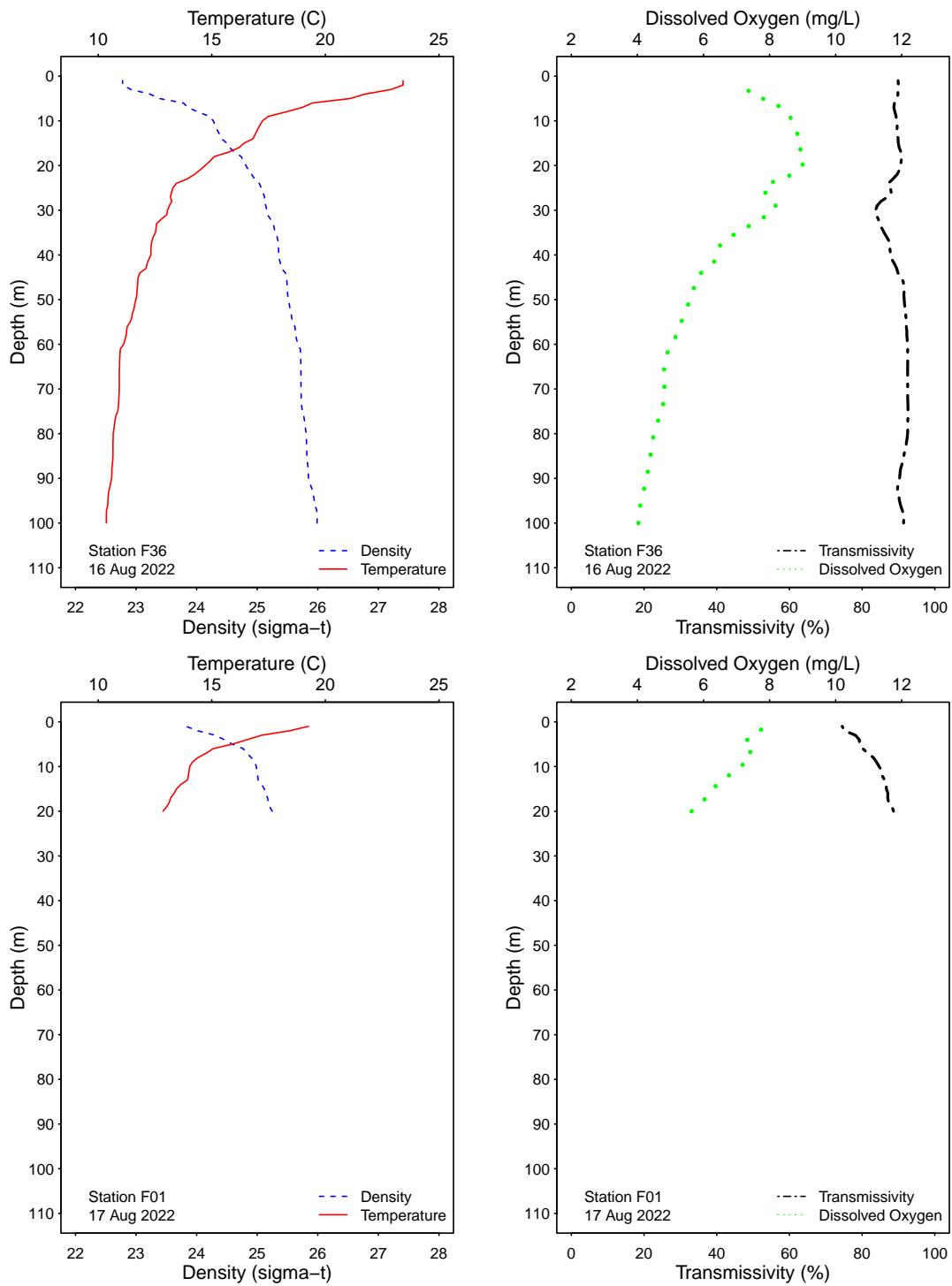


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

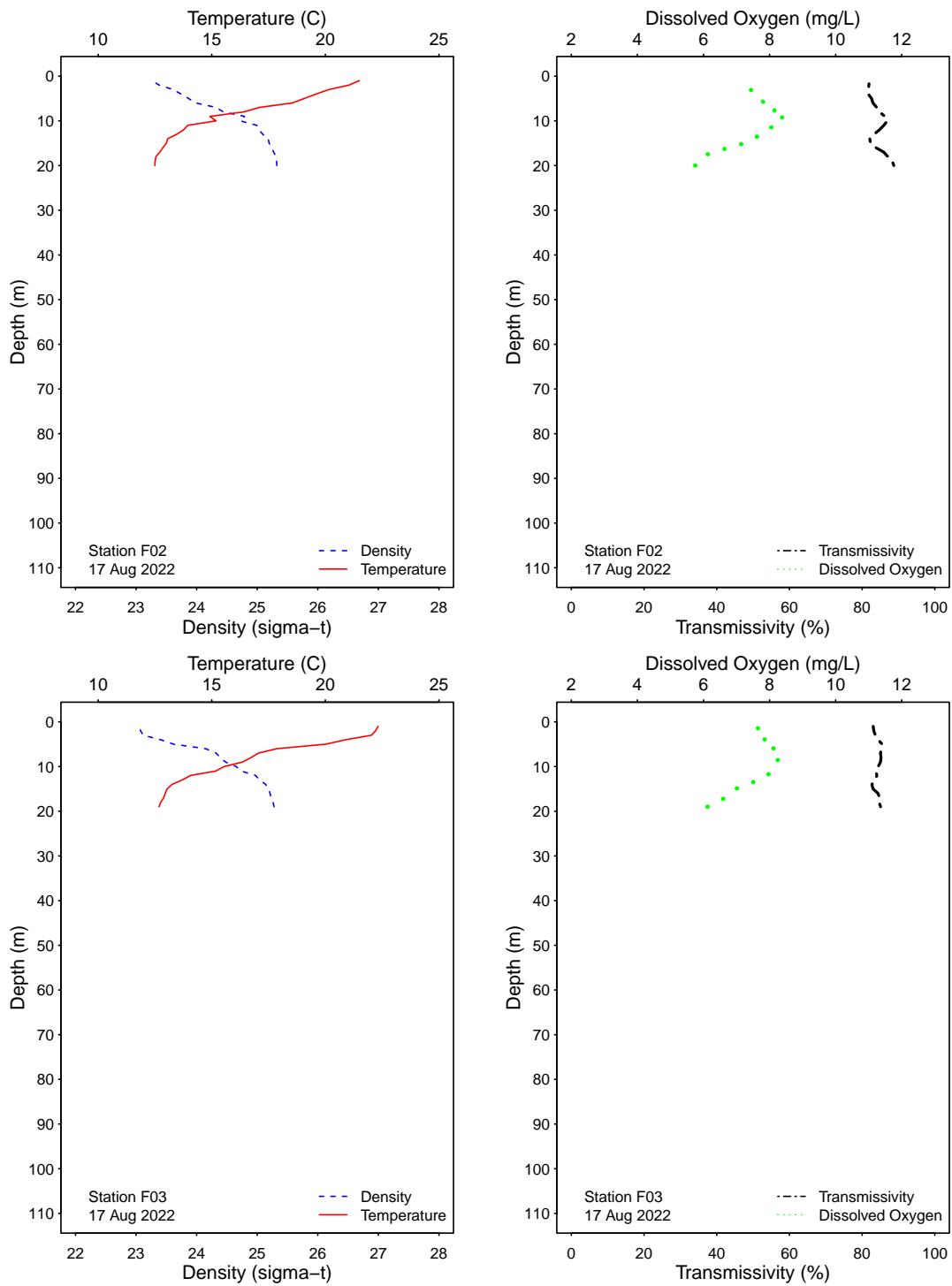


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

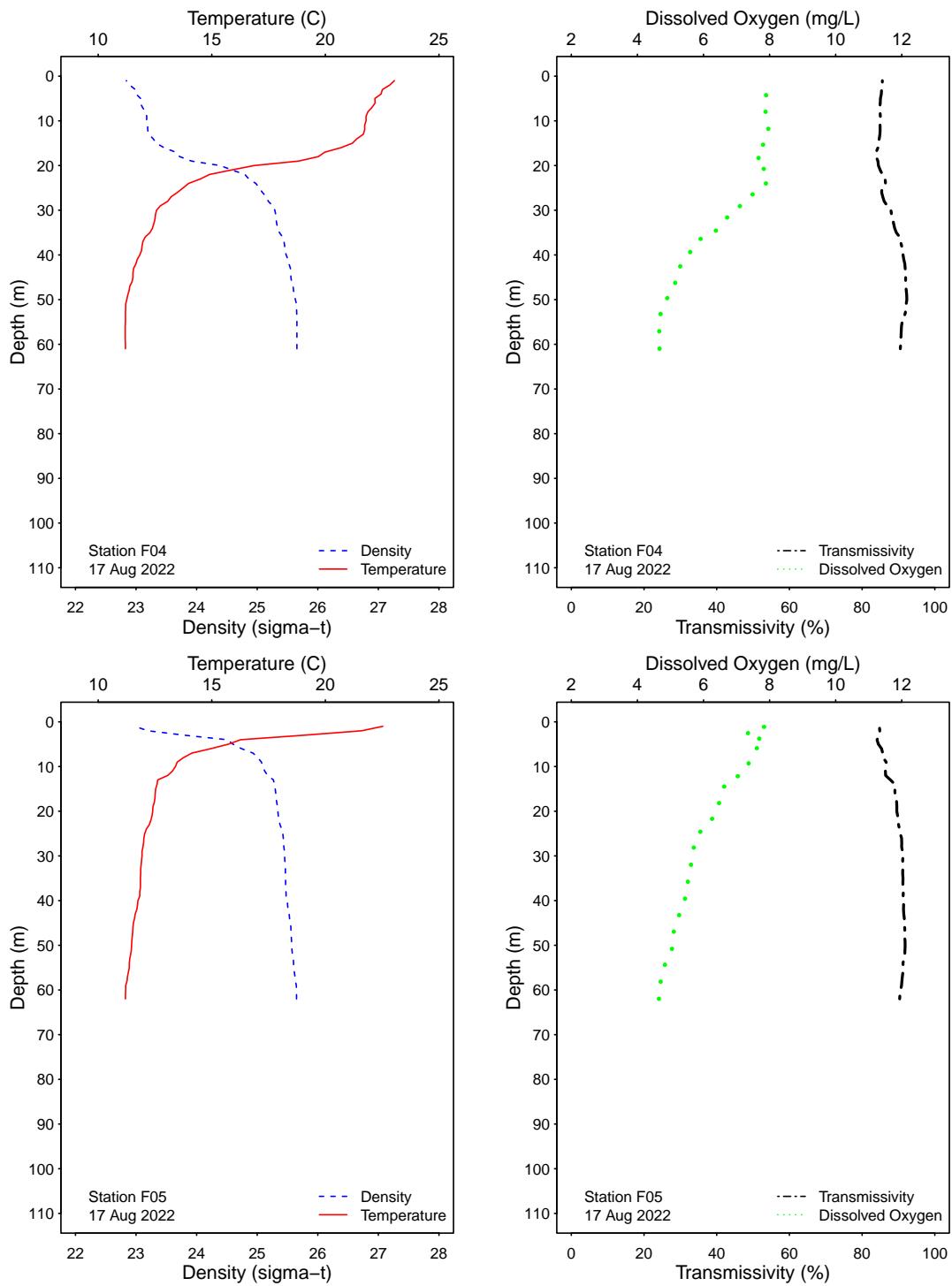


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

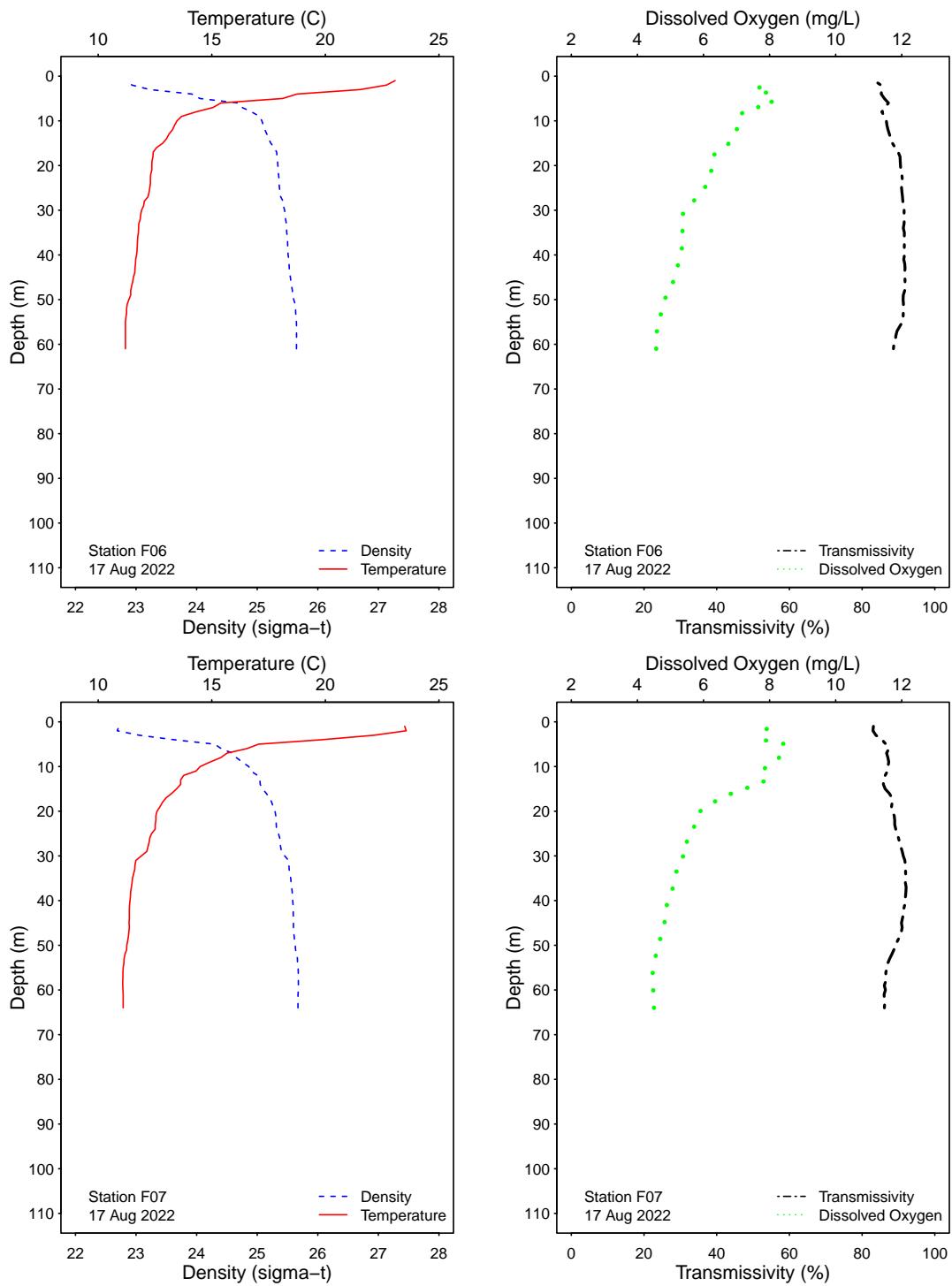


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

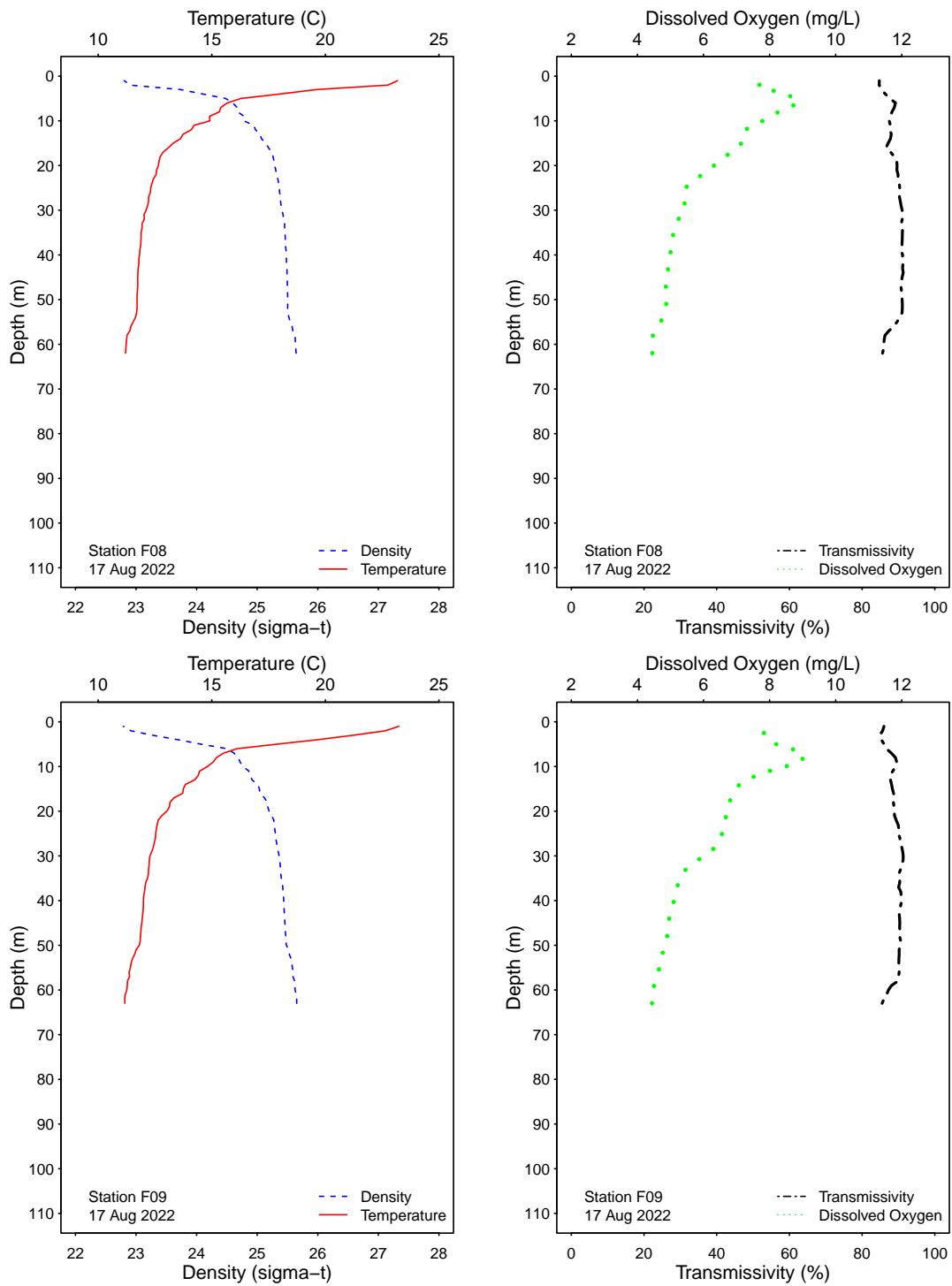


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

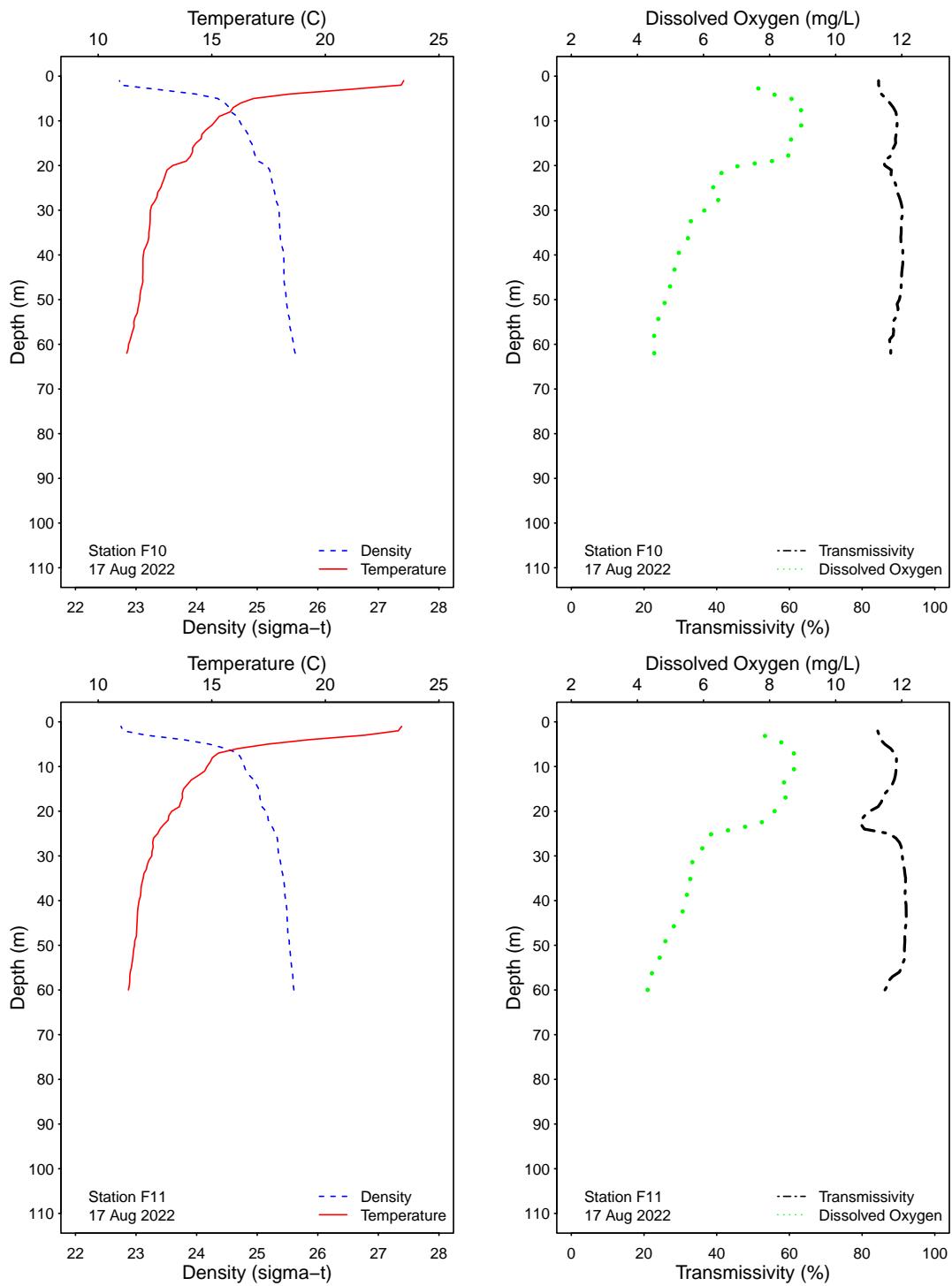


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

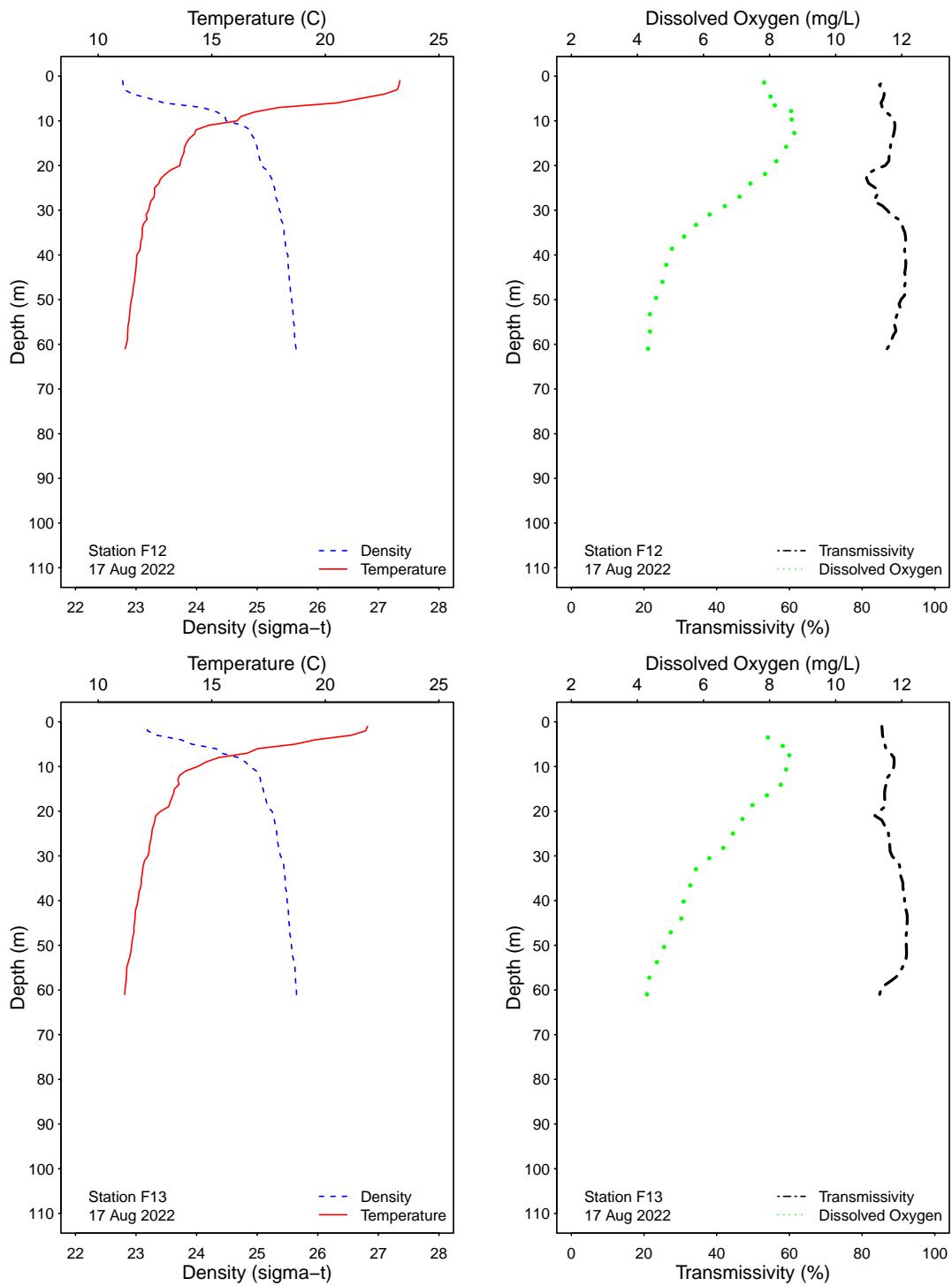


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

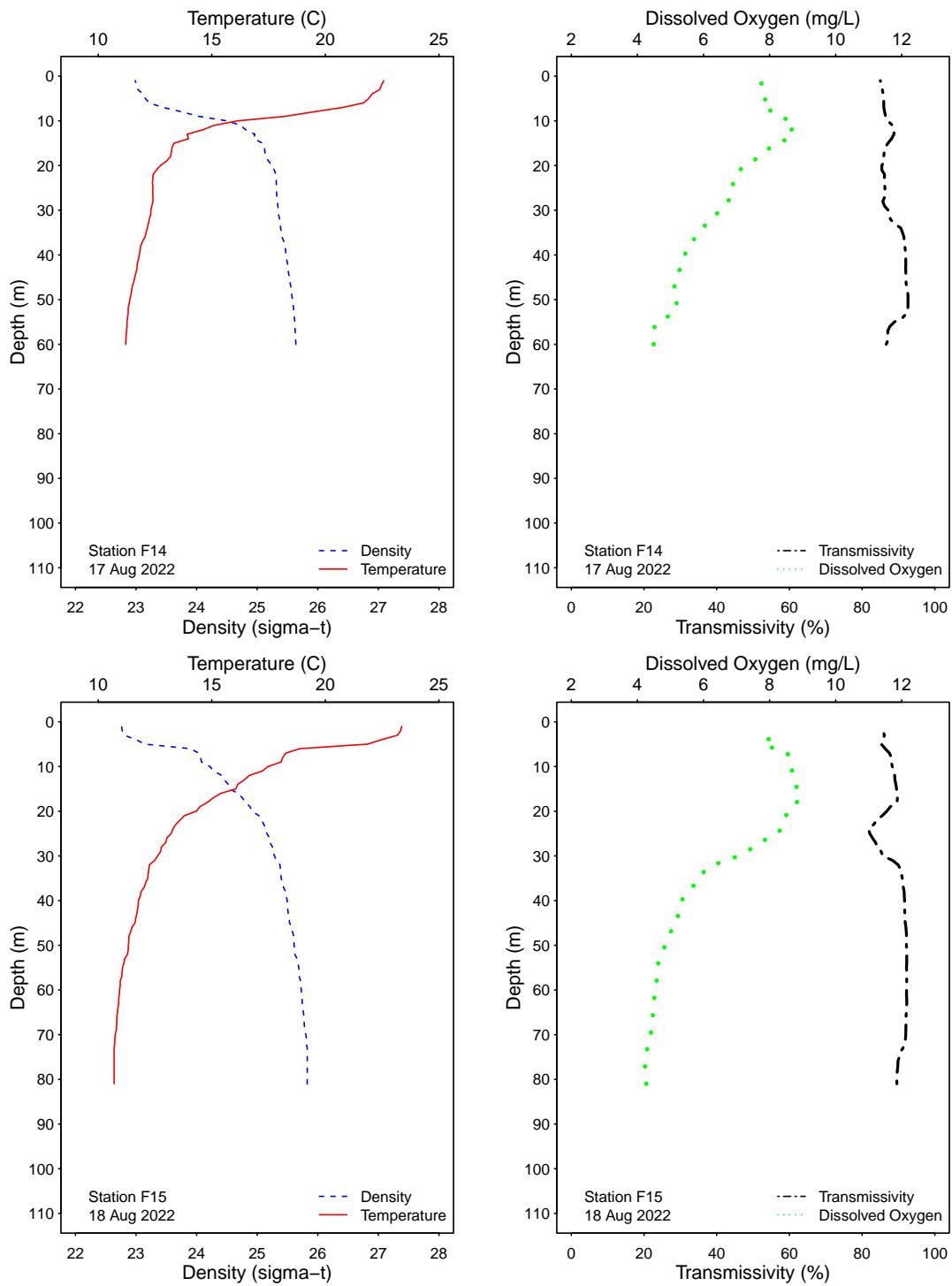


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

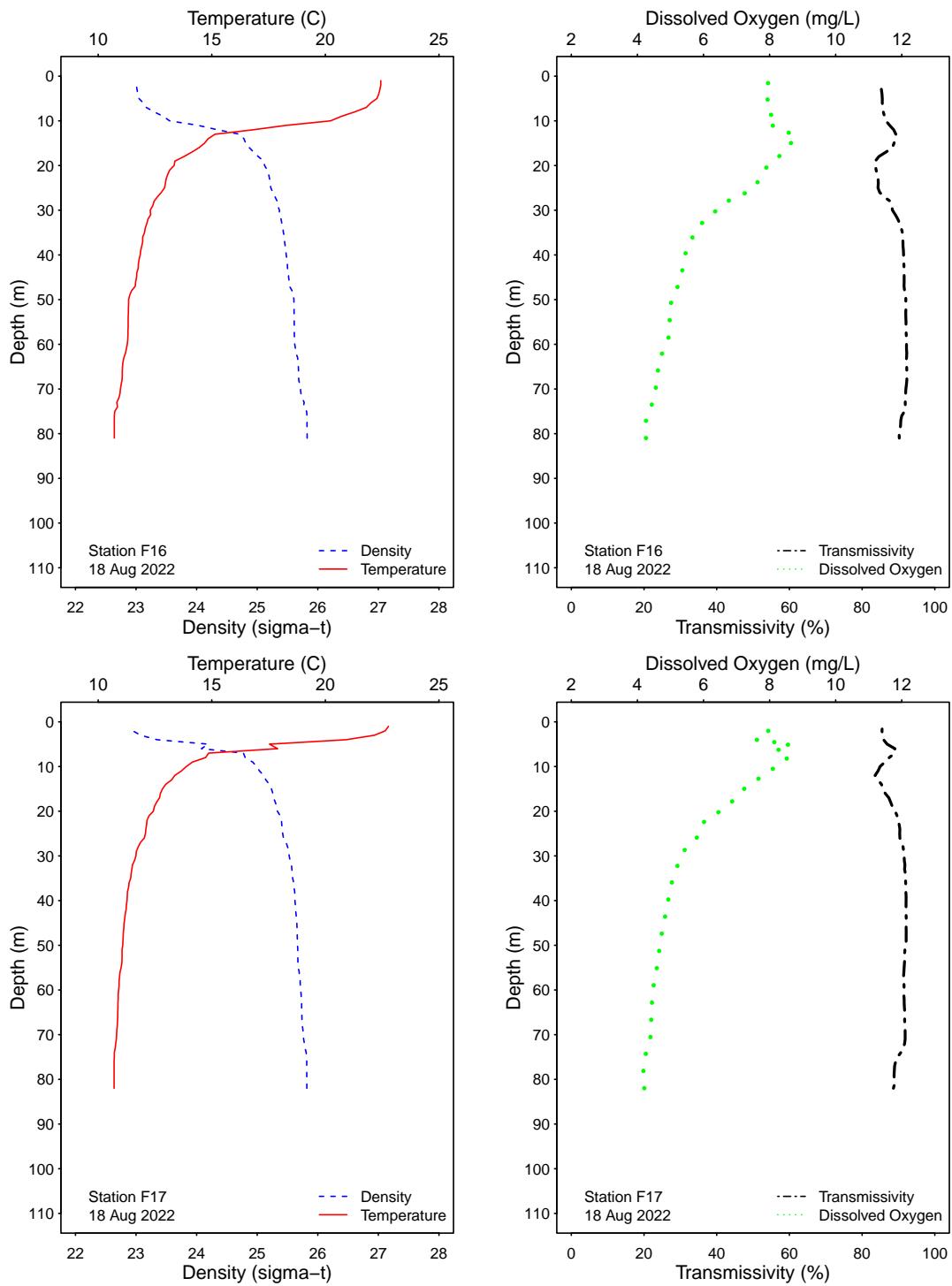


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

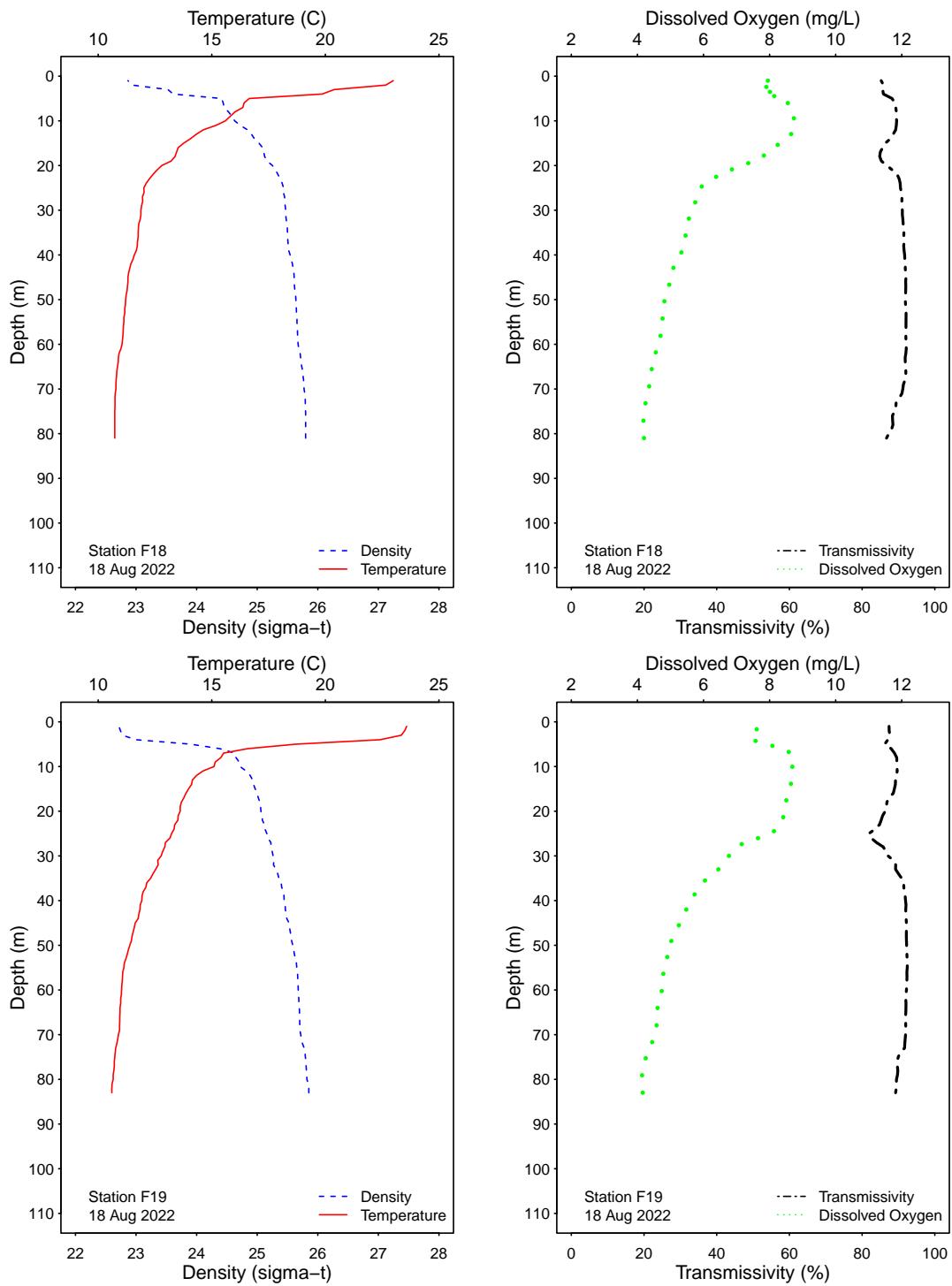


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

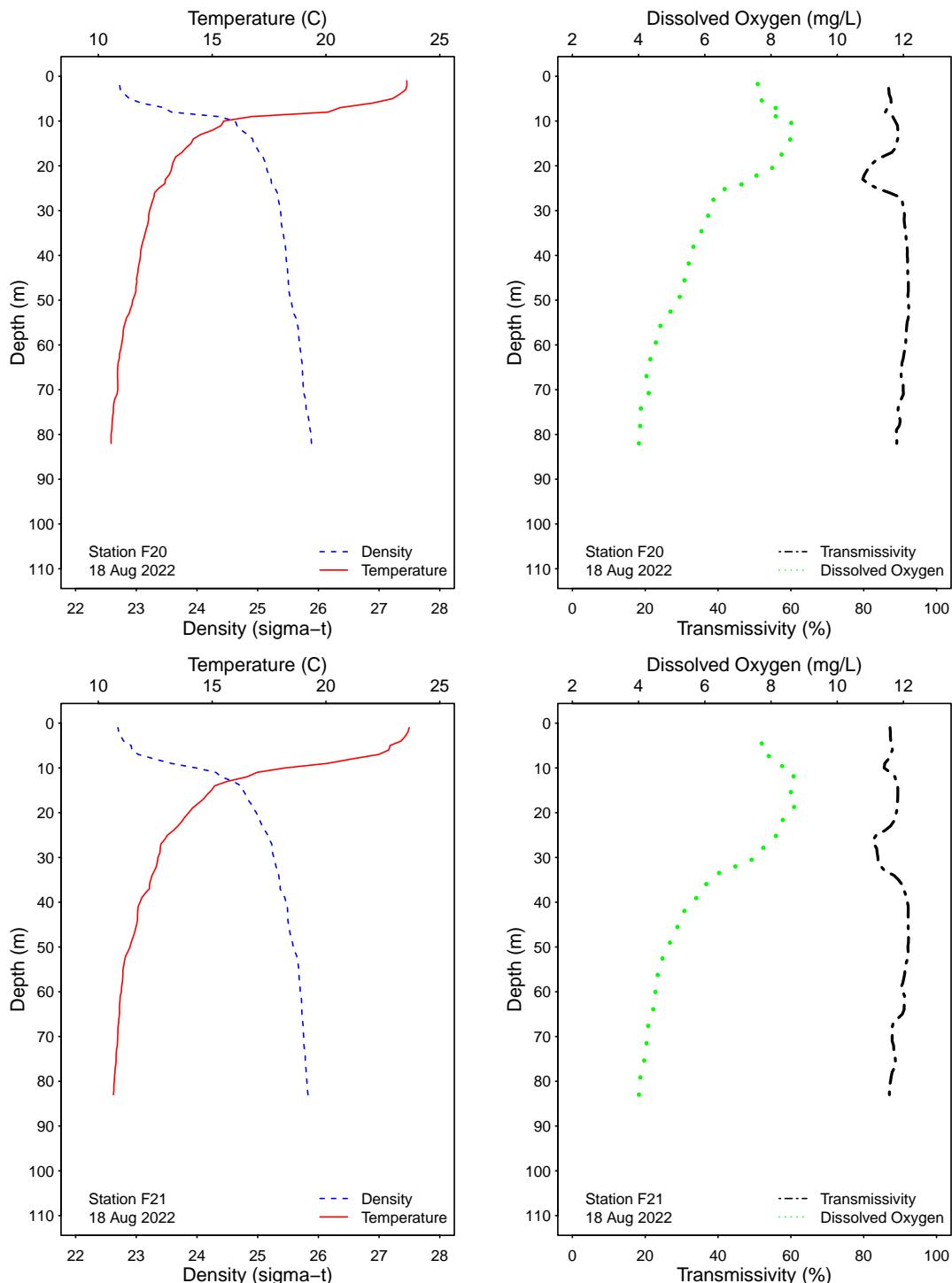


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

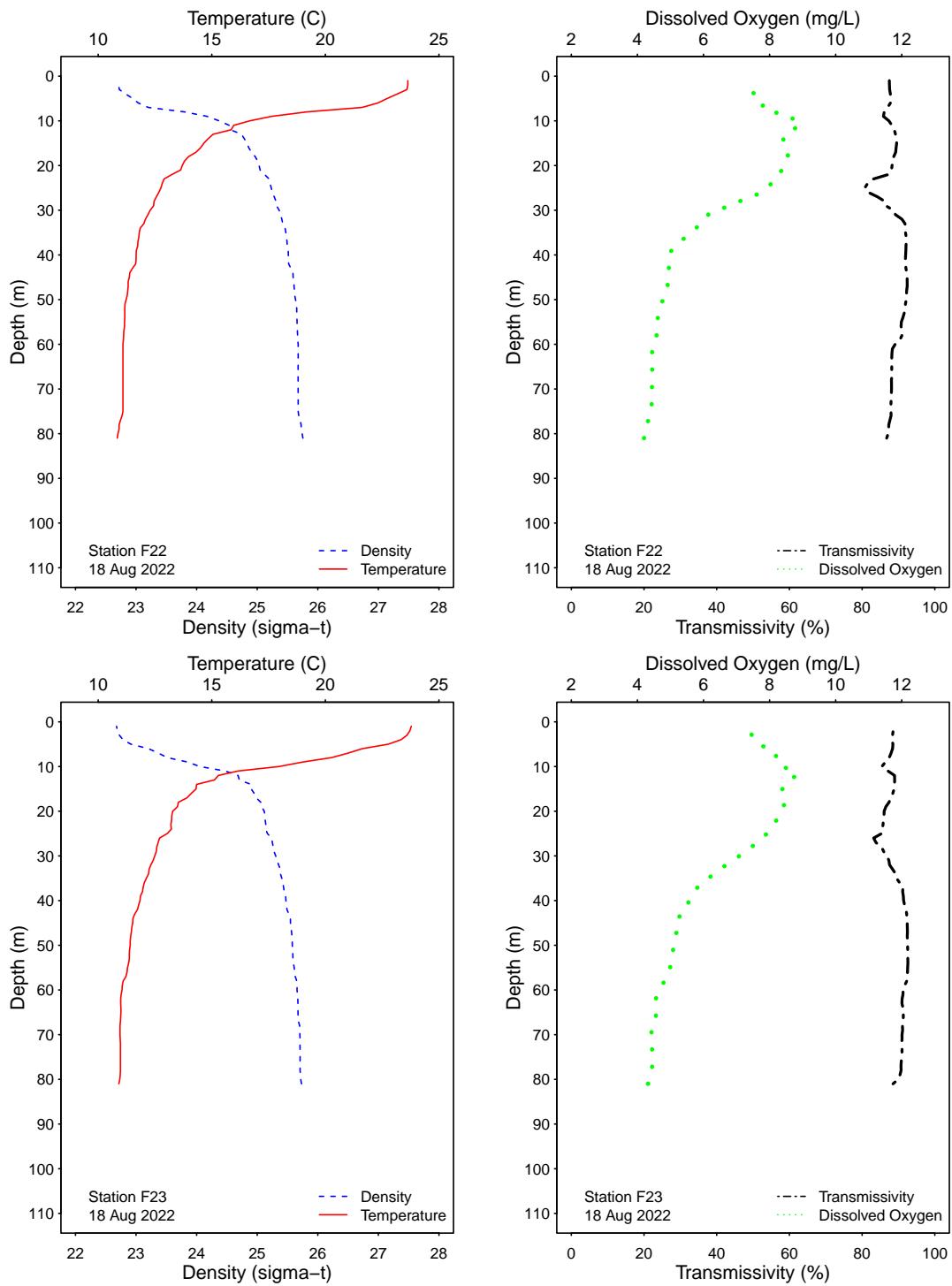


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

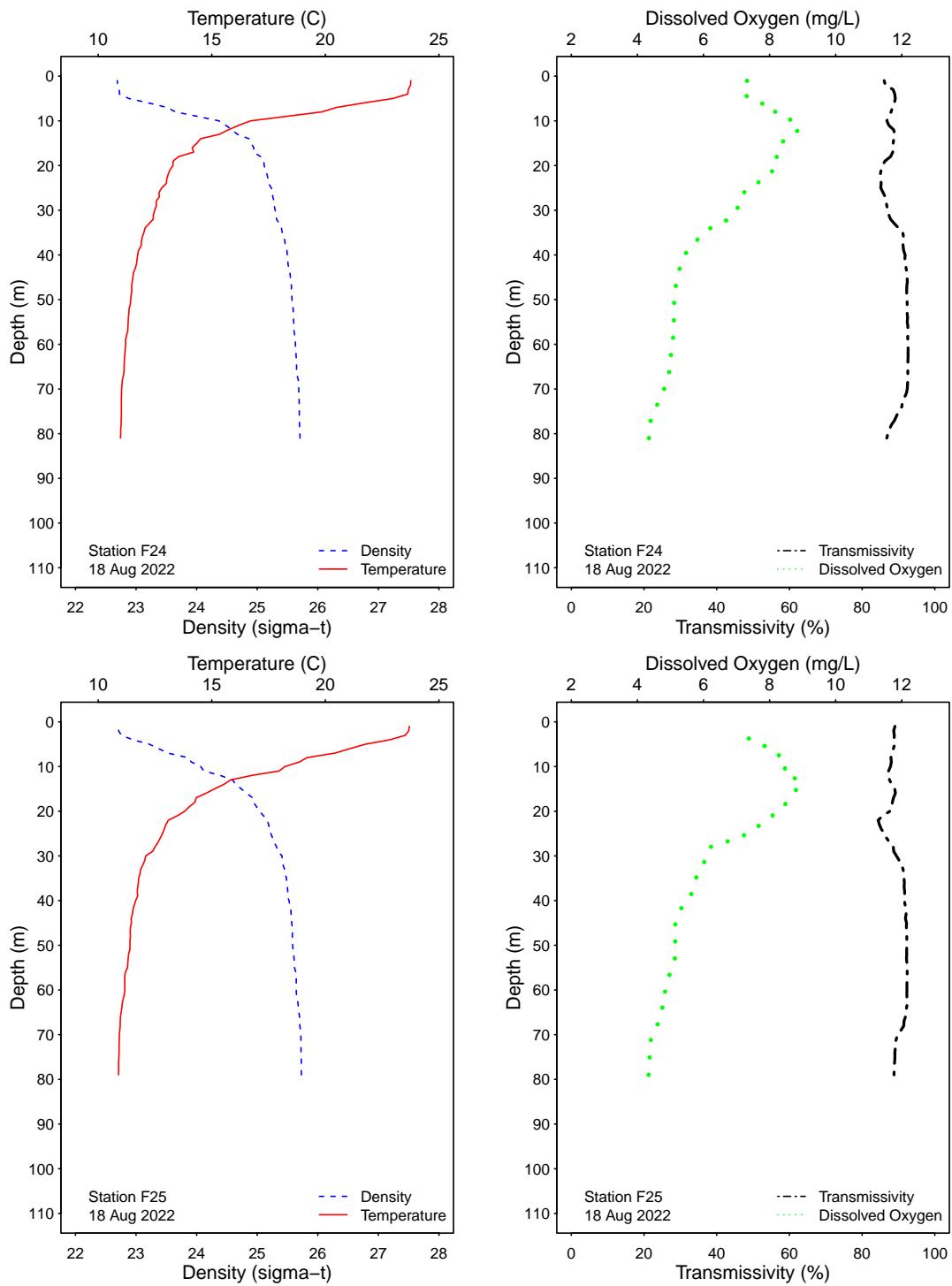


Figure 4.1: Graphics of CTD profile data from the PLOO offshore stations for each sample date.

## APPENDIX A

### Quality Assurance



**Table A.1**

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected PLOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
A7	02 Aug 2022	18	BS	LAB DUPLICATE	4e	<2	<2
A7	08 Aug 2022	18	CRE	LAB DUPLICATE	12e	6e	<2
A7	15 Aug 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
A7	23 Aug 2022	18	JF	LAB DUPLICATE	<2	<2	<2
A7	30 Aug 2022	18	HF	LAB DUPLICATE	<2	<2	<2
C7	02 Aug 2022	18	BS	LAB DUPLICATE	2e	<2	<2
C7	08 Aug 2022	18	CRE	LAB DUPLICATE	4e	2e	<2
C7	15 Aug 2022	18	CRE	LAB DUPLICATE	<2	<2	2e
C7	23 Aug 2022	18	JF	LAB DUPLICATE	<2	<2	<2
C7	30 Aug 2022	18	HF	LAB DUPLICATE	<2	<2	<2
C8	02 Aug 2022	12	BS	LAB DUPLICATE	<2	<2	<2
C8	08 Aug 2022	12	CRE	LAB DUPLICATE	2e	<2	<2
C8	15 Aug 2022	12	CRE	LAB DUPLICATE	<2	<2	<2
C8	23 Aug 2022	12	JF	LAB DUPLICATE	<2	<2	<2
C8	30 Aug 2022	12	HF	LAB DUPLICATE	<2	<2	<2
D12	03 Aug 2022		CRE	FIELD DUPLICATE	<20	2e	<2
D12	03 Aug 2022		CRE	LAB DUPLICATE	<20	2e	2e
D12	10 Aug 2022		BS	FIELD DUPLICATE	<20	<2	2e
D12	10 Aug 2022		BS	LAB DUPLICATE	<20	2e	<2
D12	17 Aug 2022		CRE	FIELD DUPLICATE	<2	<2	<2
D12	17 Aug 2022		CRE	LAB DUPLICATE	<20	<2	<2
D12	24 Aug 2022		HF	FIELD DUPLICATE	<20	<2	<2
D12	24 Aug 2022		HF	LAB DUPLICATE	<20	<2	4e
D12	31 Aug 2022		KT	FIELD DUPLICATE	<20	<2	<2
D12	31 Aug 2022		KT	LAB DUPLICATE	<20	<2	<2
F01	17 Aug 2022	12	CRE	LAB DUPLICATE	ns	ns	<2
F02	17 Aug 2022	12	CRE	LAB DUPLICATE	ns	ns	<2
F07	17 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	<2
F08	17 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	16e
F11	17 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	10e
F17	18 Aug 2022	80	JF	LAB DUPLICATE	ns	ns	42
F18	18 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	60
F19	18 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	60
F20	18 Aug 2022	60	CRE	LAB DUPLICATE	ns	ns	26e
F21	18 Aug 2022	80	JF	LAB DUPLICATE	ns	ns	70
F28	16 Aug 2022	60	BS	LAB DUPLICATE	ns	ns	76
F29	16 Aug 2022	60	BS	LAB DUPLICATE	ns	ns	12e
F30	16 Aug 2022	60	BS	LAB DUPLICATE	ns	ns	600
F31	16 Aug 2022	80	BS	LAB DUPLICATE	ns	ns	6e
F32	16 Aug 2022	80	BS	LAB DUPLICATE	ns	ns	4e
F34	16 Aug 2022	60	JF	LAB DUPLICATE	ns	ns	2e

ns = not sampled

ND = no data



## **APPENDIX B**

### **New 2019 Ocean Plan Water Quality Objectives**



# Shore Stations



**Table B.1**

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (\*). Values >30 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Aug 2022	3	2	5	2	2	2	6	3
02 Aug 2022	3	2	5	2	2	2	6	3
03 Aug 2022	3	2	5	2	2	2	5	2
04 Aug 2022	3	2	5	2	2	2	5	2
05 Aug 2022	3	2	5	2	2	2	5	2
06 Aug 2022	3	2	5	2	2	2	5	2
07 Aug 2022	3	2	5	2	2	2	5	2
08 Aug 2022	3	2	5	2	2	2	5	2
09 Aug 2022	3	2	5	2	2	2	5	2
10 Aug 2022	3	2	8	3	2	3	6	2
11 Aug 2022	3	2	8	3	2	3	6	2
12 Aug 2022	3	2	8	3	2	3	6	2
13 Aug 2022	3	2	8	3	2	3	6	2
14 Aug 2022	3	2	8	3	2	3	6	2
15 Aug 2022	3	2	8	3	2	3	6	2
16 Aug 2022	3	2	8	3	2	3	6	2
17 Aug 2022	3	2	8	3	2	3	4	2
18 Aug 2022	3	2	8	3	2	3	4	2
19 Aug 2022	3	2	8	3	2	3	4	2
20 Aug 2022	3	2	8	3	2	3	4	2
21 Aug 2022	3	2	8	3	2	3	4	2
22 Aug 2022	3	2	8	3	2	3	4	2
23 Aug 2022	3	2	8	3	2	3	4	2
24 Aug 2022	2	2	5	3	3	3	4	2
25 Aug 2022	2	2	5	3	3	3	4	2
26 Aug 2022	2	2	5	3	3	3	4	2
27 Aug 2022	2	2	5	3	3	3	4	2
28 Aug 2022	2	2	5	3	3	3	4	2
29 Aug 2022	2	2	5	3	3	3	4	2
30 Aug 2022	2	2	5	3	3	3	4	2
31 Aug 2022	2	2	5	3	3	3	4	2

\* Geometric mean calculated using n<5

ns = not sampled

**Table B.2**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
August	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table B.3**

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the PLOO shore stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (\*). Values >70 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Aug 2022	20	20	<b>110</b>	30	14	20	24	20
02 Aug 2022	20	20	<b>110</b>	30	14	20	24	20
03 Aug 2022	20	20	<b>200</b>	40	16	20	20	20
04 Aug 2022	20	20	<b>200</b>	40	16	20	20	20
05 Aug 2022	20	20	<b>200</b>	<b>80</b>	25	20	20	20
06 Aug 2022	20	20	<b>200</b>	<b>80</b>	25	20	20	20
07 Aug 2022	20	20	<b>200</b>	<b>80</b>	25	20	20	20
08 Aug 2022	20	20	<b>200</b>	<b>80</b>	25	20	20	20
09 Aug 2022	20	20	<b>200</b>	<b>80</b>	25	20	20	20
10 Aug 2022	20	20	<b>200</b>	<b>120</b>	34	20	20	20
11 Aug 2022	20	20	<b>200</b>	<b>120</b>	34	20	20	20
12 Aug 2022	20	20	<b>200</b>	<b>160</b>	47	20	24	20
13 Aug 2022	20	20	<b>200</b>	<b>160</b>	47	20	24	20
14 Aug 2022	20	20	<b>200</b>	<b>160</b>	47	20	24	20
15 Aug 2022	20	20	<b>200</b>	<b>160</b>	47	20	24	20
16 Aug 2022	20	20	<b>200</b>	<b>160</b>	47	20	24	20
17 Aug 2022	20	20	<b>200</b>	<b>200</b>	34	20	28	20
18 Aug 2022	20	20	<b>200</b>	<b>200</b>	34	20	28	20
19 Aug 2022	12	30	<b>200</b>	<b>200</b>	47	30	40	20
20 Aug 2022	12	30	<b>200</b>	<b>200</b>	47	30	40	20
21 Aug 2022	12	30	<b>200</b>	<b>200</b>	47	30	40	20
22 Aug 2022	12	30	<b>200</b>	<b>200</b>	47	30	40	20
23 Aug 2022	12	30	<b>200</b>	<b>200</b>	47	30	40	20
24 Aug 2022	20	40	<b>200</b>	<b>200</b>	60	20	20	20
25 Aug 2022	20	40	<b>200</b>	<b>200</b>	60	20	20	20
26 Aug 2022	12	<b>120</b>	<b>110</b>	<b>200</b>	<b>130</b>	30	40	20
27 Aug 2022	12	<b>120</b>	<b>110</b>	<b>200</b>	<b>130</b>	30	40	20
28 Aug 2022	12	<b>120</b>	<b>110</b>	<b>200</b>	<b>130</b>	30	40	20
29 Aug 2022	12	<b>120</b>	<b>110</b>	<b>200</b>	<b>130</b>	30	40	20
30 Aug 2022	12	<b>120</b>	<b>110</b>	<b>200</b>	<b>130</b>	30	40	20
31 Aug 2022	20	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	20	20	20

\* Median calculated using n<5

**Table B.4**

Summary of compliance at the PLOO shore stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station, per month.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
August	IC	IC	IC	E	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

# Kelp Stations



**Table B.5**

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the PLOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 6 weeks unless otherwise noted (\*). Values >30 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Aug 2022	2	2	2	2	2	2	2	2
02 Aug 2022	2	2	2	2	2	2	2	2
03 Aug 2022	2	2	2	2	2	2	2	2
04 Aug 2022	2	2	2	2	2	2	2	2
05 Aug 2022	2	2	2	2	2	2	2	2
06 Aug 2022	2	2	2	2	2	2	2	2
07 Aug 2022	2	2	2	2	2	2	2	2
08 Aug 2022	2	2	2	2	2	2	2	2
09 Aug 2022	2	2	2	2	2	2	2	2
10 Aug 2022	2	2	2	2	2	2	2	2
11 Aug 2022	2	2	2	2	2	2	2	2
12 Aug 2022	2	2	2	2	2	2	2	2
13 Aug 2022	2	2	2	2	2	2	2	2
14 Aug 2022	2	2	2	2	2	2	2	2
15 Aug 2022	2	2	2	2	2	2	2	2
16 Aug 2022	2	2	2	2	2	2	2	2
17 Aug 2022	2	2	2	2	2	2	2	2
18 Aug 2022	2	2	2	2	2	2	2	2
19 Aug 2022	2	2	2	2	2	2	2	2
20 Aug 2022	2	2	2	2	2	2	2	2
21 Aug 2022	2	2	2	2	2	2	2	2
22 Aug 2022	2	2	2	2	2	2	2	2
23 Aug 2022	2	2	2	2	2	2	2	2
24 Aug 2022	2	2	2	2	2	2	2	2
25 Aug 2022	2	2	2	2	2	2	2	2
26 Aug 2022	2	2	2	2	2	2	2	2
27 Aug 2022	2	2	2	2	2	2	2	2
28 Aug 2022	2	2	2	2	2	2	2	2
29 Aug 2022	2	2	2	2	2	2	2	2
30 Aug 2022	2	2	2	2	2	2	2	2
31 Aug 2022	2	2	2	2	2	2	2	2

\* Geometric mean calculated using n<5

**Table B.6**

Summary of compliance at the PLOO kelp stations with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	A1	A6	A7	C4	C5	C6	C7	C8
August	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table B.7**

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the PLOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (\*). Values >70 CFU/100 mL exceed the standard. Median calculated using  $n \geq 5$

Table B.8

Summary of compliance at the PL00 kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10 IC = In Compliance E = Exceedance ns = not sampled ND = no data

# Offshore Stations



**Table B.9**

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria at the PLOO offshore stations within State jurisdictional waters. Values shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	F01	F02	F03	F06	F07	F08	F09	F10	F11	F12	F13	F14	F18	F19	F20
August	IC														

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

