

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

DECEMBER 2024

Environmental Monitoring and Technical Services
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January 31, 2025

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 December 2024 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,



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 2021.

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 ≥ 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, chromomorphpic 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)¹. 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 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:

¹ 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, 1987²) 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 2024 Quality Assurance Report, which will be completed in March 2025.

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 December 4, 11, 18, and 26.
- During the December reporting period, one of the eight shore stations was out of compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - o The Single Sample Maximum standard for *Enterococcus* was exceeded at station D9.
- Nothing of sewage origin was observed at PLOO shore stations in December.
- 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

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled on December 2, 11, 17, 26, and 30.

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

- During the December reporting period, each of the eight kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 11.41 to 13.81°C. The difference between surface and bottom waters ranged from 0.38 to 2.08°C.
- Chlorophyll *a* concentrations ranged from 0.26 to 4.85 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in December.

Offshore Stations

- Quarterly water quality sampling was not conducted during December at the offshore stations. The next quarterly sampling is scheduled for February 2025.



TABLES AND FIGURES

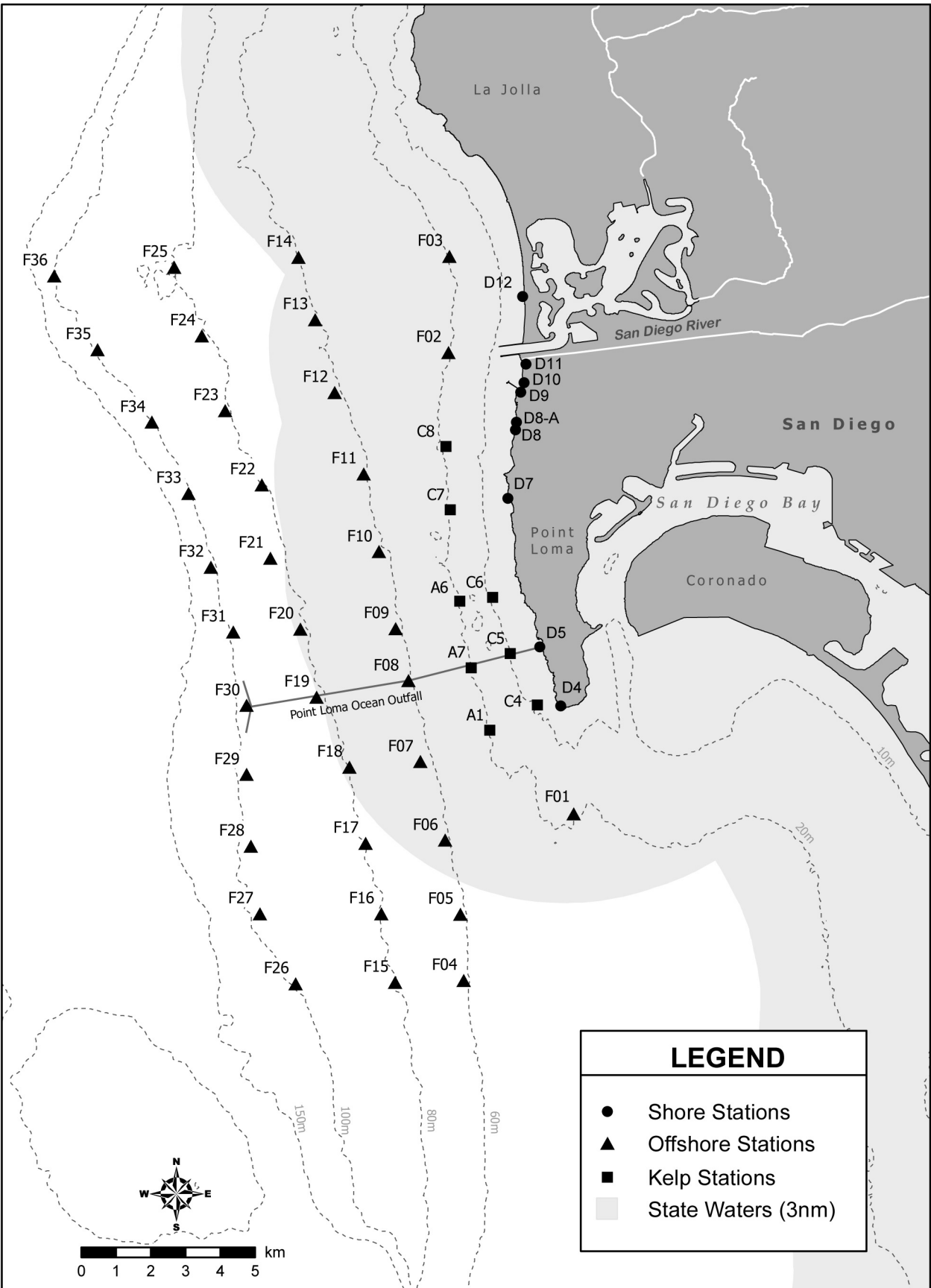


Figure 1.1 Station Map

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Shore Stations

Table 2.1

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 Dec 2024	*2	*4	*3	*6	*8	*7	*18	*3
02 Dec 2024	*2	*4	*3	*6	*8	*7	*18	*3
03 Dec 2024	*2	*4	*3	*6	*8	*7	*18	*3
04 Dec 2024	2	6	2	8	7	7	16	3
05 Dec 2024	2	6	2	8	7	7	16	3
06 Dec 2024	*2	*4	*3	*8	*9	*7	*18	*3
07 Dec 2024	*2	*4	*3	*8	*9	*7	*18	*3
08 Dec 2024	*2	*4	*3	*8	*9	*7	*18	*3
09 Dec 2024	*2	*4	*3	*8	*9	*7	*18	*3
10 Dec 2024	*2	*4	*3	*8	*9	*7	*18	*3
11 Dec 2024	2	4	2	8	9	5	14	3
12 Dec 2024	2	4	2	8	9	5	14	3
13 Dec 2024	*2	*4	*2	*6	*5	*4	*13	*2
14 Dec 2024	*2	*4	*2	*6	*5	*4	*13	*2
15 Dec 2024	*2	*4	*2	*6	*5	*4	*13	*2
16 Dec 2024	*2	*4	*2	*6	*5	*4	*13	*2
17 Dec 2024	*2	*4	*2	*6	*5	*4	*13	*2
18 Dec 2024	2	3	2	7	8	4	12	4
19 Dec 2024	2	3	2	7	8	4	12	4
20 Dec 2024	*2	*4	*2	*7	*8	*4	*10	*4
21 Dec 2024	*2	*4	*2	*7	*8	*4	*10	*4
22 Dec 2024	*2	*4	*2	*7	*8	*4	*10	*4
23 Dec 2024	*2	*4	*2	*7	*8	*4	*10	*4
24 Dec 2024	*2	*4	*2	*7	*8	*4	*10	*4
25 Dec 2024	*2	*4	*2	*10	*12	*3	*8	*4
26 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4
27 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4
28 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4
29 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4
30 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4
31 Dec 2024	*2	*4	*2	*7	*12	*5	*7	*4

* Geometric mean calculated using n<5

Table 2.2

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
04 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
18 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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 6 weeks unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Dec 2024	*2	*4	*2	*5	*7	*11	*5	*4
02 Dec 2024	*2	*4	*2	*5	*7	*11	*5	*4
03 Dec 2024	*2	*4	*2	*5	*7	*11	*5	*4
04 Dec 2024	2	3	2	8	6	8	6	4
05 Dec 2024	2	3	2	8	6	8	6	4
06 Dec 2024	*2	*4	*2	*6	*7	*11	*9	*4
07 Dec 2024	*2	*4	*2	*6	*7	*11	*9	*4
08 Dec 2024	*2	*4	*2	*6	*7	*11	*9	*4
09 Dec 2024	*2	*4	*2	*6	*7	*11	*9	*4
10 Dec 2024	*2	*4	*2	*6	*7	*11	*9	*4
11 Dec 2024	2	3	2	8	5	8	6	4
12 Dec 2024	2	3	2	8	5	8	6	4
13 Dec 2024	*2	*2	*2	*8	*3	*5	*4	*2
14 Dec 2024	*2	*2	*2	*8	*3	*5	*4	*2
15 Dec 2024	*2	*2	*2	*8	*3	*5	*4	*2
16 Dec 2024	*2	*2	*2	*8	*3	*5	*4	*2
17 Dec 2024	*2	*2	*2	*8	*3	*5	*4	*2
18 Dec 2024	2	2	2	6	9	5	3	2
19 Dec 2024	2	2	2	6	9	5	3	2
20 Dec 2024	*2	*2	*2	*8	*11	*4	*4	*2
21 Dec 2024	*2	*2	*2	*8	*11	*4	*4	*2
22 Dec 2024	*2	*2	*2	*8	*11	*4	*4	*2
23 Dec 2024	*2	*2	*2	*8	*11	*4	*4	*2
24 Dec 2024	*2	*2	*2	*8	*11	*4	*4	*2
25 Dec 2024	*2	*2	*2	*13	*19	*3	*4	*3
26 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3
27 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3
28 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3
29 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3
30 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3
31 Dec 2024	*2	*2	*2	*8	*13	*4	*6	*3

* Geometric mean calculated using n<5

Table 2.4

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
04 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
18 Dec 2024	IC	IC	IC	IC	E	IC	IC	IC
26 Dec 2024	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 with the Ocean Plan's 30-day Geometric Mean 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 >1000 CFU/100 mL exceed the standard.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
01 Dec 2024	*11	*50	*5	*134	*42	*30	*42	*11
02 Dec 2024	*11	*50	*5	*134	*42	*30	*42	*11
03 Dec 2024	*11	*50	*5	*134	*42	*30	*42	*11
04 Dec 2024	13	55	4	167	36	28	36	13
05 Dec 2024	13	55	4	167	36	28	36	13
06 Dec 2024	*11	*71	*4	*159	*42	*20	*42	*11
07 Dec 2024	*11	*71	*4	*159	*42	*20	*42	*11
08 Dec 2024	*11	*71	*4	*159	*42	*20	*42	*11
09 Dec 2024	*11	*71	*4	*159	*42	*20	*42	*11
10 Dec 2024	*11	*71	*4	*159	*42	*20	*42	*11
11 Dec 2024	8	63	4	145	36	20	42	13
12 Dec 2024	8	63	4	145	36	20	42	13
13 Dec 2024	*11	*40	*3	*238	*20	*20	*28	*11
14 Dec 2024	*11	*40	*3	*238	*20	*20	*28	*11
15 Dec 2024	*11	*40	*3	*238	*20	*20	*28	*11
16 Dec 2024	*11	*40	*3	*238	*20	*20	*28	*11
17 Dec 2024	*11	*40	*3	*238	*20	*20	*28	*11
18 Dec 2024	11	35	2	145	38	20	26	13
19 Dec 2024	11	35	2	145	38	20	26	13
20 Dec 2024	*10	*40	*3	*112	*44	*20	*24	*11
21 Dec 2024	*10	*40	*3	*112	*44	*20	*24	*11
22 Dec 2024	*10	*40	*3	*112	*44	*20	*24	*11
23 Dec 2024	*10	*40	*3	*112	*44	*20	*24	*11
24 Dec 2024	*10	*40	*3	*112	*44	*20	*24	*11
25 Dec 2024	*8	*40	*3	*93	*58	*20	*25	*20
26 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20
27 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20
28 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20
29 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20
30 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20
31 Dec 2024	*6	*34	*3	*63	*53	*20	*24	*20

* Median calculated using n<5

Table 2.6

Summary of compliance at the PLOO shore stations with the Ocean Plan's Single Sample Maximum for total coliform bacteria, which states that total coliform density shall not exceed 10^4 CFU/100 mL.

Date	D4	D5	D7	D8-B	D9	D10	D11	D12
04 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
18 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	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
04 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
18 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	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 fecal coliform (Fecal) and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
D10	04 Dec 2024	953	20e	6e	2e
D10	11 Dec 2024	849	<20	2e	2e
D10	18 Dec 2024	848	<20	2e	6e
D10	26 Dec 2024	930	20e	22e	8e
D11	04 Dec 2024	1004	20e	12e	16e
D11	11 Dec 2024	838	40e	6e	<2
D11	18 Dec 2024	837	<20	8e	2e
D11	26 Dec 2024	917	<20	4e	<20
D12	04 Dec 2024	1026	<20	2e	2e
D12	11 Dec 2024	820	<20	<2	4e
D12	18 Dec 2024	819	20e	<20	2e
D12	26 Dec 2024	848	20e	2e	4e
D4	04 Dec 2024	835	<20	<2	<2
D4	11 Dec 2024	1005	2e	<2	<2
D4	18 Dec 2024	1003	12e	<2	2e
D4	26 Dec 2024	1142	<2	2e	<2
D5	04 Dec 2024	820	80e	<20	<2
D5	11 Dec 2024	953	40e	<2	<2
D5	18 Dec 2024	952	<20	<2	<2
D5	26 Dec 2024	1105	<20	2e	<2
D7	04 Dec 2024	902	<2	<2	<2
D7	11 Dec 2024	927	6e	<2	<2
D7	18 Dec 2024	926	<2	<2	<2
D7	26 Dec 2024	1029	2e	2e	2e
D8-B	04 Dec 2024	923	400e	16e	50
D8-B	11 Dec 2024	912	100e	8e	<20
D8-B	18 Dec 2024	909	<20	8e	<2
D8-B	26 Dec 2024	1017	20e	<2	<2
D9	04 Dec 2024	933	20e	4e	6e
D9	11 Dec 2024	900	<20	8e	2e
D9	18 Dec 2024	859	480	60e	600
D9	26 Dec 2024	955	40e	10e	4e

ns = not sampled

ND = no data

Comments

date	station	depth	parmcode	comments
04-Dec-2024	D4			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
04-Dec-2024	D5			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
04-Dec-2024	D7			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
04-Dec-2024	D8-B			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
04-Dec-2024	D9			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
04-Dec-2024	D10			Colonies found on nonselective media, but no colonies on selective media. Results should not be affected.
19-Dec-2024	D9		ENTERO	Resample
19-Dec-2024	D9			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	04 Dec 2024	Arrive Time	835
D4	04 Dec 2024	Wind Speed (kts)	4
D4	04 Dec 2024	Wind Dir	SW
D4	04 Dec 2024	Animal Life	
D4	04 Dec 2024	Floatables	None
D4	04 Dec 2024	Current Direction	E
D4	04 Dec 2024	Water Temp (C)	13.5
D4	04 Dec 2024	High Tide Time	943
D4	04 Dec 2024	Low Tide Time	321
D4	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D4	11 Dec 2024	Arrive Time	1005
D4	11 Dec 2024	Wind Speed (kts)	2.5
D4	11 Dec 2024	Wind Dir	N
D4	11 Dec 2024	Animal Life	
D4	11 Dec 2024	Floatables	None
D4	11 Dec 2024	Current Direction	S
D4	11 Dec 2024	Water Temp (C)	12.9
D4	11 Dec 2024	High Tide Time	520
D4	11 Dec 2024	Low Tide Time	1226
D4	11 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	18 Dec 2024	Arrive Time	1003
D4	18 Dec 2024	Wind Speed (kts)	3.7
D4	18 Dec 2024	Wind Dir	SW
D4	18 Dec 2024	Animal Life	
D4	18 Dec 2024	Floatables	None
D4	18 Dec 2024	Current Direction	E
D4	18 Dec 2024	Water Temp (C)	12.7
D4	18 Dec 2024	High Tide Time	1012
D4	18 Dec 2024	Low Tide Time	407
D4	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D4	26 Dec 2024	Arrive Time	1142
D4	26 Dec 2024	Wind Speed (kts)	0
D4	26 Dec 2024	Wind Dir	XX
D4	26 Dec 2024	Animal Life	
D4	26 Dec 2024	Floatables	None
D4	26 Dec 2024	Current Direction	S
D4	26 Dec 2024	Water Temp (C)	13.2
D4	26 Dec 2024	High Tide Time	534
D4	26 Dec 2024	Low Tide Time	1304
D4	26 Dec 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae
D5	04 Dec 2024	Arrive Time	820
D5	04 Dec 2024	Wind Speed (kts)	0
D5	04 Dec 2024	Wind Dir	W
D5	04 Dec 2024	Animal Life	
D5	04 Dec 2024	Floatables	None
D5	04 Dec 2024	Current Direction	E
D5	04 Dec 2024	Water Temp (C)	12
D5	04 Dec 2024	High Tide Time	943
D5	04 Dec 2024	Low Tide Time	321
D5	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	11 Dec 2024	Arrive Time	953

Station	Date	Parameter	Value
D5	11 Dec 2024	Wind Speed (kts)	3
D5	11 Dec 2024	Wind Dir	W
D5	11 Dec 2024	Animal Life	Bird-15;
D5	11 Dec 2024	Floatables	None
D5	11 Dec 2024	Current Direction	S
D5	11 Dec 2024	Water Temp (C)	13.6
D5	11 Dec 2024	High Tide Time	520
D5	11 Dec 2024	Low Tide Time	1226
D5	11 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	18 Dec 2024	Arrive Time	952
D5	18 Dec 2024	Wind Speed (kts)	0.4
D5	18 Dec 2024	Wind Dir	W
D5	18 Dec 2024	Animal Life	
D5	18 Dec 2024	Floatables	None
D5	18 Dec 2024	Current Direction	E
D5	18 Dec 2024	Water Temp (C)	13.5
D5	18 Dec 2024	High Tide Time	1012
D5	18 Dec 2024	Low Tide Time	407
D5	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	26 Dec 2024	Arrive Time	1105
D5	26 Dec 2024	Wind Speed (kts)	0
D5	26 Dec 2024	Wind Dir	XX
D5	26 Dec 2024	Animal Life	
D5	26 Dec 2024	Floatables	None
D5	26 Dec 2024	Current Direction	S
D5	26 Dec 2024	Water Temp (C)	12.6
D5	26 Dec 2024	High Tide Time	534
D5	26 Dec 2024	Low Tide Time	1304
D5	26 Dec 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae
D7	04 Dec 2024	Arrive Time	902
D7	04 Dec 2024	Wind Speed (kts)	0.3
D7	04 Dec 2024	Wind Dir	W
D7	04 Dec 2024	Animal Life	
D7	04 Dec 2024	Floatables	None
D7	04 Dec 2024	Current Direction	E
D7	04 Dec 2024	Water Temp (C)	14.4
D7	04 Dec 2024	High Tide Time	943
D7	04 Dec 2024	Low Tide Time	321
D7	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D7	11 Dec 2024	Arrive Time	927
D7	11 Dec 2024	Wind Speed (kts)	0
D7	11 Dec 2024	Wind Dir	XX
D7	11 Dec 2024	Animal Life	
D7	11 Dec 2024	Floatables	None
D7	11 Dec 2024	Current Direction	S
D7	11 Dec 2024	Water Temp (C)	12.3
D7	11 Dec 2024	High Tide Time	520
D7	11 Dec 2024	Low Tide Time	1226
D7	11 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Sea-grass;Kelp;Algae
D7	18 Dec 2024	Arrive Time	926
D7	18 Dec 2024	Wind Speed (kts)	3
D7	18 Dec 2024	Wind Dir	W
D7	18 Dec 2024	Animal Life	
D7	18 Dec 2024	Floatables	None
D7	18 Dec 2024	Current Direction	E

Station	Date	Parameter	Value
D7	18 Dec 2024	Water Temp (C)	13.2
D7	18 Dec 2024	High Tide Time	1012
D7	18 Dec 2024	Low Tide Time	407
D7	18 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Sea-grass;Algae;Debris
D7	26 Dec 2024	Arrive Time	1029
D7	26 Dec 2024	Wind Speed (kts)	0
D7	26 Dec 2024	Wind Dir	XX
D7	26 Dec 2024	Animal Life	
D7	26 Dec 2024	Floatables	None
D7	26 Dec 2024	Current Direction	S
D7	26 Dec 2024	Water Temp (C)	12.8
D7	26 Dec 2024	High Tide Time	534
D7	26 Dec 2024	Low Tide Time	1304
D7	26 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Kelp;Sea-grass;Algae
D8-B	04 Dec 2024	Arrive Time	923
D8-B	04 Dec 2024	Wind Speed (kts)	3.3
D8-B	04 Dec 2024	Wind Dir	W
D8-B	04 Dec 2024	Animal Life	
D8-B	04 Dec 2024	Floatables	None; Foam
D8-B	04 Dec 2024	Current Direction	E
D8-B	04 Dec 2024	Water Temp (C)	13.3
D8-B	04 Dec 2024	High Tide Time	943
D8-B	04 Dec 2024	Low Tide Time	321
D8-B	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D8-B	11 Dec 2024	Arrive Time	912
D8-B	11 Dec 2024	Wind Speed (kts)	0.3
D8-B	11 Dec 2024	Wind Dir	NW
D8-B	11 Dec 2024	Animal Life	
D8-B	11 Dec 2024	Floatables	None
D8-B	11 Dec 2024	Current Direction	S
D8-B	11 Dec 2024	Water Temp (C)	11.9
D8-B	11 Dec 2024	High Tide Time	520
D8-B	11 Dec 2024	Low Tide Time	1226
D8-B	11 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-4; Trash-1; Kelp;Sea-grass;Algae
D8-B	18 Dec 2024	Arrive Time	909
D8-B	18 Dec 2024	Wind Speed (kts)	2
D8-B	18 Dec 2024	Wind Dir	W
D8-B	18 Dec 2024	Animal Life	
D8-B	18 Dec 2024	Floatables	None
D8-B	18 Dec 2024	Current Direction	E
D8-B	18 Dec 2024	Water Temp (C)	12.7
D8-B	18 Dec 2024	High Tide Time	1012
D8-B	18 Dec 2024	Low Tide Time	407
D8-B	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae
D8-B	26 Dec 2024	Arrive Time	1016
D8-B	26 Dec 2024	Wind Speed (kts)	5
D8-B	26 Dec 2024	Wind Dir	NW
D8-B	26 Dec 2024	Animal Life	
D8-B	26 Dec 2024	Floatables	None
D8-B	26 Dec 2024	Current Direction	S
D8-B	26 Dec 2024	Water Temp (C)	12.3
D8-B	26 Dec 2024	High Tide Time	534
D8-B	26 Dec 2024	Low Tide Time	1304

Station	Date	Parameter	Value
D8-B	26 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D9	04 Dec 2024	Arrive Time	933
D9	04 Dec 2024	Wind Speed (kts)	2.5
D9	04 Dec 2024	Wind Dir	W
D9	04 Dec 2024	Animal Life	
D9	04 Dec 2024	Floatables	None
D9	04 Dec 2024	Current Direction	E
D9	04 Dec 2024	Water Temp (C)	14.1
D9	04 Dec 2024	High Tide Time	943
D9	04 Dec 2024	Low Tide Time	321
D9	04 Dec 2024	Comments	Water clear; Trash-1; Debris;Algae;Seagrass;Kelp
D9	11 Dec 2024	Arrive Time	900
D9	11 Dec 2024	Wind Speed (kts)	0.3
D9	11 Dec 2024	Wind Dir	NW
D9	11 Dec 2024	Animal Life	
D9	11 Dec 2024	Floatables	None
D9	11 Dec 2024	Current Direction	S
D9	11 Dec 2024	Water Temp (C)	13.1
D9	11 Dec 2024	High Tide Time	520
D9	11 Dec 2024	Low Tide Time	1226
D9	11 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Kelp;Sea-grass;Algae; -1
D9	18 Dec 2024	Arrive Time	859
D9	18 Dec 2024	Wind Speed (kts)	0.1
D9	18 Dec 2024	Wind Dir	W
D9	18 Dec 2024	Animal Life	
D9	18 Dec 2024	Floatables	None
D9	18 Dec 2024	Current Direction	E
D9	18 Dec 2024	Water Temp (C)	13.5
D9	18 Dec 2024	High Tide Time	1012
D9	18 Dec 2024	Low Tide Time	407
D9	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D9	19 Dec 2024	Arrive Time	854
D9	19 Dec 2024	Wind Speed (kts)	0
D9	19 Dec 2024	Wind Dir	XX
D9	19 Dec 2024	Animal Life	
D9	19 Dec 2024	Floatables	None
D9	19 Dec 2024	Current Direction	S
D9	19 Dec 2024	Water Temp (C)	12.9
D9	19 Dec 2024	High Tide Time	26
D9	19 Dec 2024	Low Tide Time	500
D9	19 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-3; Trash-1; Kelp;Sea-grass;Algae; -1
D9	26 Dec 2024	Arrive Time	955
D9	26 Dec 2024	Wind Speed (kts)	2
D9	26 Dec 2024	Wind Dir	NE
D9	26 Dec 2024	Animal Life	
D9	26 Dec 2024	Floatables	None
D9	26 Dec 2024	Current Direction	S
D9	26 Dec 2024	Water Temp (C)	12.7
D9	26 Dec 2024	High Tide Time	534
D9	26 Dec 2024	Low Tide Time	1304
D9	26 Dec 2024	Comments	Water clear; Trash-1; Seagrass;Algae;Kelp; Person/Walker/Jogger-3
D10	04 Dec 2024	Arrive Time	953

Station	Date	Parameter	Value
D10	04 Dec 2024	Wind Speed (kts)	1.8
D10	04 Dec 2024	Wind Dir	W
D10	04 Dec 2024	Animal Life	
D10	04 Dec 2024	Floatables	None
D10	04 Dec 2024	Current Direction	E
D10	04 Dec 2024	Water Temp (C)	13.2
D10	04 Dec 2024	High Tide Time	943
D10	04 Dec 2024	Low Tide Time	321
D10	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-3
D10	11 Dec 2024	Arrive Time	849
D10	11 Dec 2024	Wind Speed (kts)	0.4
D10	11 Dec 2024	Wind Dir	W
D10	11 Dec 2024	Animal Life	
D10	11 Dec 2024	Floatables	None
D10	11 Dec 2024	Current Direction	S
D10	11 Dec 2024	Water Temp (C)	11.8
D10	11 Dec 2024	High Tide Time	520
D10	11 Dec 2024	Low Tide Time	1226
D10	11 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass
D10	18 Dec 2024	Arrive Time	848
D10	18 Dec 2024	Wind Speed (kts)	1.9
D10	18 Dec 2024	Wind Dir	W
D10	18 Dec 2024	Animal Life	
D10	18 Dec 2024	Floatables	None
D10	18 Dec 2024	Current Direction	E
D10	18 Dec 2024	Water Temp (C)	13.3
D10	18 Dec 2024	High Tide Time	1012
D10	18 Dec 2024	Low Tide Time	407
D10	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
D10	26 Dec 2024	Arrive Time	930
D10	26 Dec 2024	Wind Speed (kts)	3.1
D10	26 Dec 2024	Wind Dir	NE
D10	26 Dec 2024	Animal Life	Dog-2;
D10	26 Dec 2024	Floatables	None
D10	26 Dec 2024	Current Direction	S
D10	26 Dec 2024	Water Temp (C)	13
D10	26 Dec 2024	High Tide Time	534
D10	26 Dec 2024	Low Tide Time	1304
D10	26 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Kelp;Algae; Person/Walker/Jogger-2
D11	04 Dec 2024	Arrive Time	1004
D11	04 Dec 2024	Wind Speed (kts)	2.1
D11	04 Dec 2024	Wind Dir	W
D11	04 Dec 2024	Animal Life	Dog-2;
D11	04 Dec 2024	Floatables	None
D11	04 Dec 2024	Current Direction	E
D11	04 Dec 2024	Water Temp (C)	13.6
D11	04 Dec 2024	High Tide Time	943
D11	04 Dec 2024	Low Tide Time	321
D11	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-4
D11	11 Dec 2024	Arrive Time	838
D11	11 Dec 2024	Wind Speed (kts)	0.5
D11	11 Dec 2024	Wind Dir	W

Station	Date	Parameter	Value
D11	11 Dec 2024	Animal Life	Dog-1;
D11	11 Dec 2024	Floatables	None
D11	11 Dec 2024	Current Direction	S
D11	11 Dec 2024	Water Temp (C)	11.2
D11	11 Dec 2024	High Tide Time	520
D11	11 Dec 2024	Low Tide Time	1226
D11	11 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-8; Trash-1; Kelp;Sea-grass;Algae; Person/Walker/Jogger-5
D11	18 Dec 2024	Arrive Time	837
D11	18 Dec 2024	Wind Speed (kts)	4
D11	18 Dec 2024	Wind Dir	SW
D11	18 Dec 2024	Animal Life	
D11	18 Dec 2024	Floatables	None
D11	18 Dec 2024	Current Direction	E
D11	18 Dec 2024	Water Temp (C)	11.5
D11	18 Dec 2024	High Tide Time	1012
D11	18 Dec 2024	Low Tide Time	407
D11	18 Dec 2024	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Sea-grass;Algae;Debris
D11	26 Dec 2024	Arrive Time	917
D11	26 Dec 2024	Wind Speed (kts)	4
D11	26 Dec 2024	Wind Dir	NE
D11	26 Dec 2024	Animal Life	Dog-3;
D11	26 Dec 2024	Floatables	None
D11	26 Dec 2024	Current Direction	S
D11	26 Dec 2024	Water Temp (C)	12.2
D11	26 Dec 2024	High Tide Time	534
D11	26 Dec 2024	Low Tide Time	1304
D11	26 Dec 2024	Comments	Water clear; Boogie boarder/Swimmer-5; Trash-1; Kelp;Sea-grass;Algae; Person/Walker/Jogger-10
D12	04 Dec 2024	Arrive Time	1026
D12	04 Dec 2024	Wind Speed (kts)	2
D12	04 Dec 2024	Wind Dir	W
D12	04 Dec 2024	Animal Life	
D12	04 Dec 2024	Floatables	Foam
D12	04 Dec 2024	Current Direction	E
D12	04 Dec 2024	Water Temp (C)	15.5
D12	04 Dec 2024	High Tide Time	943
D12	04 Dec 2024	Low Tide Time	321
D12	04 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
D12	11 Dec 2024	Arrive Time	820
D12	11 Dec 2024	Wind Speed (kts)	1.1
D12	11 Dec 2024	Wind Dir	N
D12	11 Dec 2024	Animal Life	
D12	11 Dec 2024	Floatables	None
D12	11 Dec 2024	Current Direction	S
D12	11 Dec 2024	Water Temp (C)	10.8
D12	11 Dec 2024	High Tide Time	520
D12	11 Dec 2024	Low Tide Time	1226
D12	11 Dec 2024	Comments	Water clear; Fisherpersion-1; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-4
D12	18 Dec 2024	Arrive Time	819
D12	18 Dec 2024	Wind Speed (kts)	1.2
D12	18 Dec 2024	Wind Dir	W
D12	18 Dec 2024	Animal Life	
D12	18 Dec 2024	Floatables	None

Station	Date	Parameter	Value
D12	18 Dec 2024	Current Direction	E
D12	18 Dec 2024	Water Temp (C)	11
D12	18 Dec 2024	High Tide Time	1012
D12	18 Dec 2024	Low Tide Time	407
D12	18 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
D12	26 Dec 2024	Arrive Time	848
D12	26 Dec 2024	Wind Speed (kts)	0.1
D12	26 Dec 2024	Wind Dir	N
D12	26 Dec 2024	Animal Life	Bird-20;
D12	26 Dec 2024	Floatables	None
D12	26 Dec 2024	Current Direction	S
D12	26 Dec 2024	Water Temp (C)	12.1
D12	26 Dec 2024	High Tide Time	534
D12	26 Dec 2024	Low Tide Time	1304
D12	26 Dec 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-10

Kelp Stations

Table 3.1

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 Dec 2024	*3	*3	*5	*2	*2	*2	*2	*2
02 Dec 2024	2	3	4	2	2	2	2	2
03 Dec 2024	2	3	4	2	2	2	2	2
04 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
05 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
06 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
07 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
08 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
09 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
10 Dec 2024	*3	*3	*4	*2	*2	*2	*2	*2
11 Dec 2024	2	3	4	2	2	2	2	2
12 Dec 2024	*3	*2	*3	*2	*2	*2	*2	*2
13 Dec 2024	*3	*2	*3	*2	*2	*2	*2	*2
14 Dec 2024	*3	*2	*3	*2	*2	*2	*2	*2
15 Dec 2024	*3	*2	*3	*2	*2	*2	*2	*2
16 Dec 2024	*3	*2	*3	*2	*2	*2	*2	*2
17 Dec 2024	3	2	3	2	2	2	2	3
18 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
19 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
20 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
21 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
22 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
23 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
24 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
25 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
26 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
27 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
28 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
29 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*3
30 Dec 2024	2	3	3	2	2	2	2	3
31 Dec 2024	2	3	3	2	2	2	2	3

* Geometric mean calculated using n<5

Table 3.2

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 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
30 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

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 6 weeks unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
02 Dec 2024	2	2	2	2	2	2	2	2
03 Dec 2024	2	2	2	2	2	2	2	2
04 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
05 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
06 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
07 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
08 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
09 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
10 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
11 Dec 2024	2	2	2	2	2	2	2	2
12 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
13 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
14 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
15 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
16 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
17 Dec 2024	2	2	2	2	2	2	2	2
18 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
19 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
20 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
21 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
22 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
23 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
24 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
25 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
26 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
27 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
28 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
29 Dec 2024	*2	*2	*2	*2	*2	*2	*2	*2
30 Dec 2024	2	2	2	2	2	2	2	2
31 Dec 2024	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 *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
30 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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 median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1000 CFU/100 mL exceed the standard.

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Dec 2024	*7	*6	*18	*2	*2	*2	*3	*3
02 Dec 2024	5	5	11	2	2	2	3	3
03 Dec 2024	5	5	11	2	2	2	3	3
04 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
05 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
06 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
07 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
08 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
09 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
10 Dec 2024	*5	*5	*12	*2	*2	*2	*2	*2
11 Dec 2024	4	4	8	2	2	2	2	3
12 Dec 2024	*5	*3	*6	*2	*2	*2	*2	*4
13 Dec 2024	*5	*3	*6	*2	*2	*2	*2	*4
14 Dec 2024	*5	*3	*6	*2	*2	*2	*2	*4
15 Dec 2024	*5	*3	*6	*2	*2	*2	*2	*4
16 Dec 2024	*5	*3	*6	*2	*2	*2	*2	*4
17 Dec 2024	7	4	8	2	2	2	2	6
18 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
19 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
20 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
21 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
22 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
23 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
24 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
25 Dec 2024	*4	*3	*5	*2	*2	*2	*2	*7
26 Dec 2024	*4	*4	*6	*3	*2	*2	*3	*9
27 Dec 2024	*4	*4	*6	*3	*2	*2	*3	*9
28 Dec 2024	*4	*4	*6	*3	*2	*2	*3	*9
29 Dec 2024	*4	*4	*6	*3	*2	*2	*3	*9
30 Dec 2024	6	7	9	3	2	2	3	7
31 Dec 2024	6	7	9	3	2	2	3	7

- Median calculated using n<5

Table 3.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
02 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
30 Dec 2024	IC	IC	IC	IC	IC	IC	IC	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 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
11 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
17 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2024	IC	IC	IC	IC	IC	IC	IC	IC
30 Dec 2024	IC	IC	IC	IC	IC	IC	IC	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* (Entero) bacteria are 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	Total	Fecal	Entero
A1	02 Dec 2024	737	1	<2	<2	<2
A1	02 Dec 2024	737	12	<2	<2	<2
A1	02 Dec 2024	737	18	<2	<2	<2
A1	11 Dec 2024	758	1	<2	<2	<2
A1	11 Dec 2024	758	12	<2	<2	<2
A1	11 Dec 2024	758	18	<2	<2	<2
A1	17 Dec 2024	746	1	2e	<2	<2
A1	17 Dec 2024	746	12	10e	4e	<2
A1	17 Dec 2024	746	18	50	2e	<2
A1	26 Dec 2024	719	1	2e	<2	<2
A1	26 Dec 2024	719	12	2e	<2	<2
A1	26 Dec 2024	719	18	6e	<2	<2
A1	30 Dec 2024	742	1	<2	2e	<2
A1	30 Dec 2024	742	12	12e	<2	<2
A1	30 Dec 2024	742	18	66	8e	4e
A6	02 Dec 2024	813	1	<2	<2	<2
A6	02 Dec 2024	813	12	<2	<2	<2
A6	02 Dec 2024	813	18	2e	<2	<2
A6	11 Dec 2024	822	1	<2	<2	<2
A6	11 Dec 2024	822	12	<2	<2	<2
A6	11 Dec 2024	822	18	<2	<2	<2
A6	17 Dec 2024	810	1	<2	<2	<2
A6	17 Dec 2024	810	12	2e	2e	<2
A6	17 Dec 2024	810	18	48	2e	2e
A6	26 Dec 2024	740	1	<2	<2	<2
A6	26 Dec 2024	740	12	2e	2e	<2
A6	26 Dec 2024	740	18	8e	2e	<2
A6	30 Dec 2024	807	1	8e	<2	<2
A6	30 Dec 2024	807	12	32e	4e	2e
A6	30 Dec 2024	807	18	180e	34e	2e
A7	02 Dec 2024	756	1	<2	<2	<2
A7	02 Dec 2024	756	12	<2	<2	<2
A7	02 Dec 2024	756	18	<2	<2	<2
A7	11 Dec 2024	808	1	<2	<2	<2
A7	11 Dec 2024	808	12	<2	<2	<2
A7	11 Dec 2024	808	18	<2	2e	<2
A7	17 Dec 2024	757	1	<2	<2	<2
A7	17 Dec 2024	757	12	60	4e	4e
A7	17 Dec 2024	757	18	8e	2e	2e

Station	Date	Time	Depth	Total	Fecal	Entero
A7	26 Dec 2024	729	1	<2	<2	<2
A7	26 Dec 2024	729	12	6e	<2	2e
A7	26 Dec 2024	729	18	22e	2e	<2
A7	30 Dec 2024	756	1	4e	<2	<2
A7	30 Dec 2024	756	12	12e	6e	<2
A7	30 Dec 2024	756	18	180e	40	6e
C4	02 Dec 2024	913	1	<2	<2	<2
C4	02 Dec 2024	913	3	<2	<2	<2
C4	02 Dec 2024	913	9	<2	<2	<2
C4	11 Dec 2024	940	1	<2	2e	<2
C4	11 Dec 2024	940	3	<2	<2	<2
C4	11 Dec 2024	940	9	2e	<2	<2
C4	17 Dec 2024	916	1	2e	<2	<2
C4	17 Dec 2024	916	3	6e	<2	<2
C4	17 Dec 2024	916	9	4e	<2	<2
C4	26 Dec 2024	843	1	12e	<2	<2
C4	26 Dec 2024	843	3	4e	2e	<2
C4	26 Dec 2024	843	9	4e	2e	<2
C4	30 Dec 2024	917	1	<2	<2	<2
C4	30 Dec 2024	917	3	<2	<2	<2
C4	30 Dec 2024	917	9	2e	2e	<2
C5	02 Dec 2024	904	1	2e	2e	<2
C5	02 Dec 2024	904	3	<2	<2	<2
C5	02 Dec 2024	904	9	<2	<2	<2
C5	11 Dec 2024	930	1	<2	<2	<2
C5	11 Dec 2024	930	3	<2	<2	<2
C5	11 Dec 2024	930	9	2e	<2	<2
C5	17 Dec 2024	905	1	<2	<2	<2
C5	17 Dec 2024	905	3	<2	<2	<2
C5	17 Dec 2024	905	9	2e	<2	<2
C5	26 Dec 2024	831	1	2e	<2	<2
C5	26 Dec 2024	831	3	4e	<2	<2
C5	26 Dec 2024	831	9	<2	<2	<2
C5	30 Dec 2024	906	1	<2	<2	<2
C5	30 Dec 2024	906	3	<2	<2	<2
C5	30 Dec 2024	906	9	4e	2e	<2
C6	02 Dec 2024	854	1	2e	<2	<2
C6	02 Dec 2024	854	3	<2	<2	<2
C6	02 Dec 2024	854	9	<2	2e	<2
C6	11 Dec 2024	919	1	2e	<2	<2
C6	11 Dec 2024	919	3	<2	<2	<2
C6	11 Dec 2024	919	9	<2	<2	<2
C6	17 Dec 2024	855	1	<2	<2	<2
C6	17 Dec 2024	855	3	4e	<2	<2
C6	17 Dec 2024	855	9	2e	4e	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C6	26 Dec 2024	820	1	<2	<2	<2
C6	26 Dec 2024	820	3	2e	<2	4e
C6	26 Dec 2024	820	9	2e	<2	2e
C6	30 Dec 2024	856	1	2e	<2	<2
C6	30 Dec 2024	856	3	2e	4e	<2
C6	30 Dec 2024	856	9	2e	<2	<2
C7	02 Dec 2024	826	1	<2	<2	<2
C7	02 Dec 2024	826	12	<2	<2	<2
C7	02 Dec 2024	826	18	6e	2e	<2
C7	11 Dec 2024	844	1	2e	<2	<2
C7	11 Dec 2024	844	12	<2	2e	<2
C7	11 Dec 2024	844	18	2e	<2	<2
C7	17 Dec 2024	823	1	<2	<2	<2
C7	17 Dec 2024	823	12	<2	<2	<2
C7	17 Dec 2024	823	18	<2	<2	<2
C7	26 Dec 2024	752	1	2e	<2	<2
C7	26 Dec 2024	752	12	6e	<2	<2
C7	26 Dec 2024	752	18	<20	<2	2e
C7	30 Dec 2024	825	1	4e	<2	2e
C7	30 Dec 2024	825	12	<2	<2	<2
C7	30 Dec 2024	825	18	4e	<2	<2
C8	02 Dec 2024	838	1	<2	<2	<2
C8	02 Dec 2024	838	12	2e	<2	<2
C8	02 Dec 2024	838	18	<2	<2	<2
C8	11 Dec 2024	856	1	<2	<2	<2
C8	11 Dec 2024	856	12	2e	2e	<2
C8	11 Dec 2024	856	18	26e	4e	<2
C8	17 Dec 2024	835	1	4e	<2	<2
C8	17 Dec 2024	835	12	130	18e	2e
C8	17 Dec 2024	835	18	4e	<2	<2
C8	26 Dec 2024	801	1	4e	<2	<2
C8	26 Dec 2024	801	12	2e	2e	<2
C8	26 Dec 2024	801	18	<20	<2	<2
C8	30 Dec 2024	840	1	<2	<2	2e
C8	30 Dec 2024	840	12	2e	2e	<2
C8	30 Dec 2024	840	18	2e	2e	2e

ns = not sampled
ND = no data

Table 3.9

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

Station	Date	Parameter	Value
A1	02 Dec 2024	Arrive Time	737
A1	02 Dec 2024	Depart Time	746
A1	02 Dec 2024	Air Temp (C)	13.9
A1	02 Dec 2024	Visibility (mi)	10
A1	02 Dec 2024	Wind Speed (kts)	4.7
A1	02 Dec 2024	Wind Dir	N
A1	02 Dec 2024	Sea State	Wind Ripples
A1	02 Dec 2024	High Tide Time	830
A1	02 Dec 2024	Low Tide Time	1606
A1	02 Dec 2024	Comments	Did 2nd cast to confirm DO sensor was consistent; Kelp; Kelp Debris; Lobster Floats
A1	11 Dec 2024	Arrive Time	752
A1	11 Dec 2024	Depart Time	758
A1	11 Dec 2024	Air Temp (C)	14
A1	11 Dec 2024	Visibility (mi)	10
A1	11 Dec 2024	Wind Speed (kts)	6.2
A1	11 Dec 2024	Wind Dir	N
A1	11 Dec 2024	Sea State	Calm
A1	11 Dec 2024	High Tide Time	518
A1	11 Dec 2024	Low Tide Time	1224
A1	11 Dec 2024	Comments	
A1	17 Dec 2024	Arrive Time	746
A1	17 Dec 2024	Depart Time	751
A1	17 Dec 2024	Air Temp (C)	12.9
A1	17 Dec 2024	Visibility (mi)	10
A1	17 Dec 2024	Wind Speed (kts)	6.4
A1	17 Dec 2024	Wind Dir	NE
A1	17 Dec 2024	Sea State	Light Chop
A1	17 Dec 2024	High Tide Time	924
A1	17 Dec 2024	Low Tide Time	1700
A1	17 Dec 2024	Comments	Kelp; Lobster Floats
A1	26 Dec 2024	Arrive Time	719
A1	26 Dec 2024	Depart Time	724
A1	26 Dec 2024	Air Temp (C)	11.5
A1	26 Dec 2024	Visibility (mi)	8
A1	26 Dec 2024	Wind Speed (kts)	15.4
A1	26 Dec 2024	Wind Dir	E
A1	26 Dec 2024	Sea State	Regular Swell
A1	26 Dec 2024	High Tide Time	536
A1	26 Dec 2024	Low Tide Time	1300
A1	26 Dec 2024	Comments	Kelp; Lobster Floats
A1	30 Dec 2024	Arrive Time	742
A1	30 Dec 2024	Depart Time	748
A1	30 Dec 2024	Air Temp (C)	12.5
A1	30 Dec 2024	Visibility (mi)	5
A1	30 Dec 2024	Wind Speed (kts)	6.1
A1	30 Dec 2024	Wind Dir	E
A1	30 Dec 2024	Sea State	Confused Swell
A1	30 Dec 2024	High Tide Time	748
A1	30 Dec 2024	Low Tide Time	1518
A1	30 Dec 2024	Comments	Kelp; Kelp Debris

Station	Date	Parameter	Value
C4	02 Dec 2024	Arrive Time	913
C4	02 Dec 2024	Depart Time	915
C4	02 Dec 2024	Air Temp (C)	13.7
C4	02 Dec 2024	Visibility (mi)	10
C4	02 Dec 2024	Wind Speed (kts)	0
C4	02 Dec 2024	Wind Dir	E
C4	02 Dec 2024	Sea State	Wind Ripples
C4	02 Dec 2024	High Tide Time	830
C4	02 Dec 2024	Low Tide Time	1606
C4	02 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
C4	11 Dec 2024	Arrive Time	937
C4	11 Dec 2024	Depart Time	940
C4	11 Dec 2024	Air Temp (C)	14.2
C4	11 Dec 2024	Visibility (mi)	9
C4	11 Dec 2024	Wind Speed (kts)	3.6
C4	11 Dec 2024	Wind Dir	NE
C4	11 Dec 2024	Sea State	Light Chop
C4	11 Dec 2024	High Tide Time	518
C4	11 Dec 2024	Low Tide Time	1224
C4	11 Dec 2024	Comments	
C4	17 Dec 2024	Arrive Time	916
C4	17 Dec 2024	Depart Time	935
C4	17 Dec 2024	Air Temp (C)	13.6
C4	17 Dec 2024	Visibility (mi)	10
C4	17 Dec 2024	Wind Speed (kts)	2.1
C4	17 Dec 2024	Wind Dir	E
C4	17 Dec 2024	Sea State	Light Chop
C4	17 Dec 2024	High Tide Time	924
C4	17 Dec 2024	Low Tide Time	1700
C4	17 Dec 2024	Comments	Lobster Floats
C4	26 Dec 2024	Arrive Time	843
C4	26 Dec 2024	Depart Time	845
C4	26 Dec 2024	Air Temp (C)	12.4
C4	26 Dec 2024	Visibility (mi)	8
C4	26 Dec 2024	Wind Speed (kts)	4.6
C4	26 Dec 2024	Wind Dir	E
C4	26 Dec 2024	Sea State	Regular Swell
C4	26 Dec 2024	High Tide Time	536
C4	26 Dec 2024	Low Tide Time	1300
C4	26 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
C4	30 Dec 2024	Arrive Time	917
C4	30 Dec 2024	Depart Time	919
C4	30 Dec 2024	Air Temp (C)	12.8
C4	30 Dec 2024	Visibility (mi)	5
C4	30 Dec 2024	Wind Speed (kts)	4.1
C4	30 Dec 2024	Wind Dir	E
C4	30 Dec 2024	Sea State	Confused Swell
C4	30 Dec 2024	High Tide Time	748
C4	30 Dec 2024	Low Tide Time	1518
C4	30 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
A7	02 Dec 2024	Arrive Time	756
A7	02 Dec 2024	Depart Time	759
A7	02 Dec 2024	Air Temp (C)	14.3
A7	02 Dec 2024	Visibility (mi)	10
A7	02 Dec 2024	Wind Speed (kts)	4.9
A7	02 Dec 2024	Wind Dir	N

Station	Date	Parameter	Value
A7	02 Dec 2024	Sea State	Wind Ripples
A7	02 Dec 2024	High Tide Time	830
A7	02 Dec 2024	Low Tide Time	1606
A7	02 Dec 2024	Comments	Lobster Floats
A7	11 Dec 2024	Arrive Time	805
A7	11 Dec 2024	Depart Time	808
A7	11 Dec 2024	Air Temp (C)	13.9
A7	11 Dec 2024	Visibility (mi)	10
A7	11 Dec 2024	Wind Speed (kts)	1.3
A7	11 Dec 2024	Wind Dir	NW
A7	11 Dec 2024	Sea State	Calm
A7	11 Dec 2024	High Tide Time	518
A7	11 Dec 2024	Low Tide Time	1224
A7	11 Dec 2024	Comments	
A7	17 Dec 2024	Arrive Time	757
A7	17 Dec 2024	Depart Time	802
A7	17 Dec 2024	Air Temp (C)	13.1
A7	17 Dec 2024	Visibility (mi)	10
A7	17 Dec 2024	Wind Speed (kts)	5.5
A7	17 Dec 2024	Wind Dir	N
A7	17 Dec 2024	Sea State	Light Chop
A7	17 Dec 2024	High Tide Time	924
A7	17 Dec 2024	Low Tide Time	1700
A7	17 Dec 2024	Comments	Kelp Debris; Lobster Floats
A7	26 Dec 2024	Arrive Time	729
A7	26 Dec 2024	Depart Time	733
A7	26 Dec 2024	Air Temp (C)	11.6
A7	26 Dec 2024	Visibility (mi)	8
A7	26 Dec 2024	Wind Speed (kts)	7.1
A7	26 Dec 2024	Wind Dir	E
A7	26 Dec 2024	Sea State	Regular Swell
A7	26 Dec 2024	High Tide Time	536
A7	26 Dec 2024	Low Tide Time	1300
A7	26 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
A7	30 Dec 2024	Arrive Time	756
A7	30 Dec 2024	Depart Time	800
A7	30 Dec 2024	Air Temp (C)	12.6
A7	30 Dec 2024	Visibility (mi)	5
A7	30 Dec 2024	Wind Speed (kts)	3.4
A7	30 Dec 2024	Wind Dir	E
A7	30 Dec 2024	Sea State	Confused Swell
A7	30 Dec 2024	High Tide Time	748
A7	30 Dec 2024	Low Tide Time	1518
A7	30 Dec 2024	Comments	Kelp
C5	02 Dec 2024	Arrive Time	904
C5	02 Dec 2024	Depart Time	906
C5	02 Dec 2024	Air Temp (C)	14.2
C5	02 Dec 2024	Visibility (mi)	10
C5	02 Dec 2024	Wind Speed (kts)	0
C5	02 Dec 2024	Wind Dir	NW
C5	02 Dec 2024	Sea State	Wind Ripples
C5	02 Dec 2024	High Tide Time	830
C5	02 Dec 2024	Low Tide Time	1606
C5	02 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
C5	11 Dec 2024	Arrive Time	926

Station	Date	Parameter	Value
C5	11 Dec 2024	Depart Time	930
C5	11 Dec 2024	Air Temp (C)	13.9
C5	11 Dec 2024	Visibility (mi)	9
C5	11 Dec 2024	Wind Speed (kts)	3.2
C5	11 Dec 2024	Wind Dir	E
C5	11 Dec 2024	Sea State	Light Chop
C5	11 Dec 2024	High Tide Time	518
C5	11 Dec 2024	Low Tide Time	1224
C5	11 Dec 2024	Comments	
C5	17 Dec 2024	Arrive Time	905
C5	17 Dec 2024	Depart Time	909
C5	17 Dec 2024	Air Temp (C)	13.8
C5	17 Dec 2024	Visibility (mi)	10
C5	17 Dec 2024	Wind Speed (kts)	0
C5	17 Dec 2024	Wind Dir	N
C5	17 Dec 2024	Sea State	Light Chop
C5	17 Dec 2024	High Tide Time	924
C5	17 Dec 2024	Low Tide Time	1700
C5	17 Dec 2024	Comments	Lobster Floats
C5	26 Dec 2024	Arrive Time	831
C5	26 Dec 2024	Depart Time	833
C5	26 Dec 2024	Air Temp (C)	12.9
C5	26 Dec 2024	Visibility (mi)	8
C5	26 Dec 2024	Wind Speed (kts)	2.7
C5	26 Dec 2024	Wind Dir	E
C5	26 Dec 2024	Sea State	Regular Swell
C5	26 Dec 2024	High Tide Time	536
C5	26 Dec 2024	Low Tide Time	1300
C5	26 Dec 2024	Comments	Could not come within 0.05nm of station due to the size of the swell. (0.07nm from station); Kelp; Kelp Debris
C5	30 Dec 2024	Arrive Time	906
C5	30 Dec 2024	Depart Time	911
C5	30 Dec 2024	Air Temp (C)	13
C5	30 Dec 2024	Visibility (mi)	5
C5	30 Dec 2024	Wind Speed (kts)	4.7
C5	30 Dec 2024	Wind Dir	E
C5	30 Dec 2024	Sea State	Confused Swell
C5	30 Dec 2024	High Tide Time	748
C5	30 Dec 2024	Low Tide Time	1518
C5	30 Dec 2024	Comments	Kelp; Kelp Debris
A6	02 Dec 2024	Arrive Time	813
A6	02 Dec 2024	Depart Time	816
A6	02 Dec 2024	Air Temp (C)	14
A6	02 Dec 2024	Visibility (mi)	10
A6	02 Dec 2024	Wind Speed (kts)	1.8
A6	02 Dec 2024	Wind Dir	NW
A6	02 Dec 2024	Sea State	Wind Ripples
A6	02 Dec 2024	High Tide Time	830
A6	02 Dec 2024	Low Tide Time	1606
A6	02 Dec 2024	Comments	Kelp Debris; Lobster Floats
A6	11 Dec 2024	Arrive Time	816
A6	11 Dec 2024	Depart Time	822
A6	11 Dec 2024	Air Temp (C)	13.8
A6	11 Dec 2024	Visibility (mi)	10
A6	11 Dec 2024	Wind Speed (kts)	18
A6	11 Dec 2024	Wind Dir	NW

Station	Date	Parameter	Value
A6	11 Dec 2024	Sea State	Calm
A6	11 Dec 2024	High Tide Time	518
A6	11 Dec 2024	Low Tide Time	1224
A6	11 Dec 2024	Comments	
A6	17 Dec 2024	Arrive Time	810
A6	17 Dec 2024	Depart Time	814
A6	17 Dec 2024	Air Temp (C)	13.2
A6	17 Dec 2024	Visibility (mi)	10
A6	17 Dec 2024	Wind Speed (kts)	1.6
A6	17 Dec 2024	Wind Dir	N
A6	17 Dec 2024	Sea State	Light Chop
A6	17 Dec 2024	High Tide Time	924
A6	17 Dec 2024	Low Tide Time	1700
A6	17 Dec 2024	Comments	Seagrass; Lobster Floats
A6	26 Dec 2024	Arrive Time	740
A6	26 Dec 2024	Depart Time	745
A6	26 Dec 2024	Air Temp (C)	11.8
A6	26 Dec 2024	Visibility (mi)	8
A6	26 Dec 2024	Wind Speed (kts)	6.6
A6	26 Dec 2024	Wind Dir	E
A6	26 Dec 2024	Sea State	Regular Swell
A6	26 Dec 2024	High Tide Time	536
A6	26 Dec 2024	Low Tide Time	1300
A6	26 Dec 2024	Comments	
A6	30 Dec 2024	Arrive Time	807
A6	30 Dec 2024	Depart Time	815
A6	30 Dec 2024	Air Temp (C)	13
A6	30 Dec 2024	Visibility (mi)	5
A6	30 Dec 2024	Wind Speed (kts)	4.5
A6	30 Dec 2024	Wind Dir	E
A6	30 Dec 2024	Sea State	Confused Swell
A6	30 Dec 2024	High Tide Time	748
A6	30 Dec 2024	Low Tide Time	1518
A6	30 Dec 2024	Comments	Kelp
C6	02 Dec 2024	Arrive Time	854
C6	02 Dec 2024	Depart Time	858
C6	02 Dec 2024	Air Temp (C)	14
C6	02 Dec 2024	Visibility (mi)	10
C6	02 Dec 2024	Wind Speed (kts)	1.3
C6	02 Dec 2024	Wind Dir	NW
C6	02 Dec 2024	Sea State	Wind Ripples
C6	02 Dec 2024	High Tide Time	830
C6	02 Dec 2024	Low Tide Time	1606
C6	02 Dec 2024	Comments	Kelp; Kelp Debris; Lobster Floats
C6	11 Dec 2024	Arrive Time	909
C6	11 Dec 2024	Depart Time	919
C6	11 Dec 2024	Air Temp (C)	13.9
C6	11 Dec 2024	Visibility (mi)	9
C6	11 Dec 2024	Wind Speed (kts)	8.3
C6	11 Dec 2024	Wind Dir	SE
C6	11 Dec 2024	Sea State	Light Chop
C6	11 Dec 2024	High Tide Time	518
C6	11 Dec 2024	Low Tide Time	1224
C6	11 Dec 2024	Comments	
C6	17 Dec 2024	Arrive Time	855

Station	Date	Parameter	Value
C6	17 Dec 2024	Depart Time	858
C6	17 Dec 2024	Air Temp (C)	13.6
C6	17 Dec 2024	Visibility (mi)	10
C6	17 Dec 2024	Wind Speed (kts)	1.3
C6	17 Dec 2024	Wind Dir	NW
C6	17 Dec 2024	Sea State	Light Chop
C6	17 Dec 2024	High Tide Time	924
C6	17 Dec 2024	Low Tide Time	1700
C6	17 Dec 2024	Comments	Kelp Debris; Seagrass; Lobster Floats
C6	26 Dec 2024	Arrive Time	820
C6	26 Dec 2024	Depart Time	822
C6	26 Dec 2024	Air Temp (C)	12.3
C6	26 Dec 2024	Visibility (mi)	8
C6	26 Dec 2024	Wind Speed (kts)	2
C6	26 Dec 2024	Wind Dir	E
C6	26 Dec 2024	Sea State	Regular Swell
C6	26 Dec 2024	High Tide Time	536
C6	26 Dec 2024	Low Tide Time	1300
C6	26 Dec 2024	Comments	Could not come within 0.05nm of station due to the size of the swell (0.06 nm from station); Kelp; Kelp Debris
C6	30 Dec 2024	Arrive Time	856
C6	30 Dec 2024	Depart Time	859
C6	30 Dec 2024	Air Temp (C)	13.1
C6	30 Dec 2024	Visibility (mi)	5
C6	30 Dec 2024	Wind Speed (kts)	3.7
C6	30 Dec 2024	Wind Dir	NE
C6	30 Dec 2024	Sea State	Confused Swell
C6	30 Dec 2024	High Tide Time	748
C6	30 Dec 2024	Low Tide Time	1518
C6	30 Dec 2024	Comments	
C7	02 Dec 2024	Arrive Time	826
C7	02 Dec 2024	Depart Time	831
C7	02 Dec 2024	Air Temp (C)	13.9
C7	02 Dec 2024	Visibility (mi)	10
C7	02 Dec 2024	Wind Speed (kts)	0.1
C7	02 Dec 2024	Wind Dir	NW
C7	02 Dec 2024	Sea State	Wind Ripples
C7	02 Dec 2024	High Tide Time	830
C7	02 Dec 2024	Low Tide Time	1606
C7	02 Dec 2024	Comments	Lobster Floats
C7	11 Dec 2024	Arrive Time	840
C7	11 Dec 2024	Depart Time	844
C7	11 Dec 2024	Air Temp (C)	13.6
C7	11 Dec 2024	Visibility (mi)	9
C7	11 Dec 2024	Wind Speed (kts)	11.1
C7	11 Dec 2024	Wind Dir	N
C7	11 Dec 2024	Sea State	Light Chop
C7	11 Dec 2024	High Tide Time	518
C7	11 Dec 2024	Low Tide Time	1224
C7	11 Dec 2024	Comments	
C7	17 Dec 2024	Arrive Time	823
C7	17 Dec 2024	Depart Time	832
C7	17 Dec 2024	Air Temp (C)	13
C7	17 Dec 2024	Visibility (mi)	10
C7	17 Dec 2024	Wind Speed (kts)	0
C7	17 Dec 2024	Wind Dir	NW

Station	Date	Parameter	Value
C7	17 Dec 2024	Sea State	Light Chop
C7	17 Dec 2024	High Tide Time	924
C7	17 Dec 2024	Low Tide Time	1700
C7	17 Dec 2024	Comments	Kelp Debris; Lobster Floats
C7	26 Dec 2024	Arrive Time	752
C7	26 Dec 2024	Depart Time	755
C7	26 Dec 2024	Air Temp (C)	11.9
C7	26 Dec 2024	Visibility (mi)	8
C7	26 Dec 2024	Wind Speed (kts)	8.6
C7	26 Dec 2024	Wind Dir	E
C7	26 Dec 2024	Sea State	Regular Swell
C7	26 Dec 2024	High Tide Time	536
C7	26 Dec 2024	Low Tide Time	1300
C7	26 Dec 2024	Comments	Kelp; Kelp Debris
C7	30 Dec 2024	Arrive Time	825
C7	30 Dec 2024	Depart Time	830
C7	30 Dec 2024	Air Temp (C)	13.5
C7	30 Dec 2024	Visibility (mi)	5
C7	30 Dec 2024	Wind Speed (kts)	2
C7	30 Dec 2024	Wind Dir	NE
C7	30 Dec 2024	Sea State	Confused Swell
C7	30 Dec 2024	High Tide Time	748
C7	30 Dec 2024	Low Tide Time	1518
C7	30 Dec 2024	Comments	
C8	02 Dec 2024	Arrive Time	838
C8	02 Dec 2024	Depart Time	841
C8	02 Dec 2024	Air Temp (C)	13.5
C8	02 Dec 2024	Visibility (mi)	10
C8	02 Dec 2024	Wind Speed (kts)	2.2
C8	02 Dec 2024	Wind Dir	N
C8	02 Dec 2024	Sea State	Wind Ripples
C8	02 Dec 2024	High Tide Time	830
C8	02 Dec 2024	Low Tide Time	1606
C8	02 Dec 2024	Comments	Lobster Floats
C8	11 Dec 2024	Arrive Time	852
C8	11 Dec 2024	Depart Time	856
C8	11 Dec 2024	Air Temp (C)	12.9
C8	11 Dec 2024	Visibility (mi)	9
C8	11 Dec 2024	Wind Speed (kts)	16.8
C8	11 Dec 2024	Wind Dir	NW
C8	11 Dec 2024	Sea State	Light Chop
C8	11 Dec 2024	High Tide Time	518
C8	11 Dec 2024	Low Tide Time	1224
C8	11 Dec 2024	Comments	
C8	17 Dec 2024	Arrive Time	835
C8	17 Dec 2024	Depart Time	842
C8	17 Dec 2024	Air Temp (C)	12.3
C8	17 Dec 2024	Visibility (mi)	10
C8	17 Dec 2024	Wind Speed (kts)	3.8
C8	17 Dec 2024	Wind Dir	N
C8	17 Dec 2024	Sea State	Light Chop
C8	17 Dec 2024	High Tide Time	924
C8	17 Dec 2024	Low Tide Time	1700
C8	17 Dec 2024	Comments	Lobster Floats
C8	26 Dec 2024	Arrive Time	801

Station	Date	Parameter	Value
C8	26 Dec 2024	Depart Time	806
C8	26 Dec 2024	Air Temp (C)	12.2
C8	26 Dec 2024	Visibility (mi)	8
C8	26 Dec 2024	Wind Speed (kts)	4.6
C8	26 Dec 2024	Wind Dir	SE
C8	26 Dec 2024	Sea State	Regular Swell
C8	26 Dec 2024	High Tide Time	536
C8	26 Dec 2024	Low Tide Time	1300
C8	26 Dec 2024	Comments	
C8	30 Dec 2024	Arrive Time	840
C8	30 Dec 2024	Depart Time	843
C8	30 Dec 2024	Air Temp (C)	13.4
C8	30 Dec 2024	Visibility (mi)	5
C8	30 Dec 2024	Wind Speed (kts)	3.2
C8	30 Dec 2024	Wind Dir	N
C8	30 Dec 2024	Sea State	Confused Swell
C8	30 Dec 2024	High Tide Time	748
C8	30 Dec 2024	Low Tide Time	1518
C8	30 Dec 2024	Comments	

Comments

date	station	depth	parmcode	comments
17-Dec-2024	C6			One colony found on TSA plate, none on selective mEI plate. Results not likely affected.
17-Dec-2024	C5			One colony found on TSA plate, none on selective mEI plate. Results not likely affected.

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 (s-t)	Chlor (µg/L)
A1	02 Dec 2024	1	13.48	95.63	7.0	33.33	8.1	25.0	1.08
A1	02 Dec 2024	2	13.48	95.39	7.0	33.33	8.1	25.0	1.22
A1	02 Dec 2024	3	13.47	95.64	7.0	33.33	8.1	25.0	1.28
A1	02 Dec 2024	4	13.41	95.89	6.9	33.34	8.1	25.0	1.22
A1	02 Dec 2024	5	13.26	96.20	6.8	33.34	8.0	25.1	1.02
A1	02 Dec 2024	6	13.10	96.50	6.5	33.34	8.0	25.1	0.90
A1	02 Dec 2024	7	12.92	96.29	6.2	33.36	8.0	25.1	0.81
A1	02 Dec 2024	8	12.72	95.49	5.8	33.36	8.0	25.2	0.76
A1	02 Dec 2024	9	12.59	94.97	5.6	33.37	7.9	25.2	0.64
A1	02 Dec 2024	10	12.54	94.63	5.5	33.36	7.9	25.2	0.58
A1	02 Dec 2024	11	12.50	94.19	5.4	33.37	7.9	25.2	0.55
A1	02 Dec 2024	12	12.39	94.21	5.3	33.38	7.9	25.3	0.50
A1	02 Dec 2024	13	12.30	94.13	5.2	33.38	7.9	25.3	0.46
A1	02 Dec 2024	14	12.15	93.81	5.2	33.39	7.9	25.3	0.41
A1	02 Dec 2024	15	11.96	93.65	5.1	33.41	7.9	25.4	0.42
A1	02 Dec 2024	16	11.78	92.55	5.1	33.41	7.9	25.4	0.44
A1	02 Dec 2024	17	11.66	89.71	5.1	33.42	7.9	25.4	0.56
A1	02 Dec 2024	18	11.60	90.54	5.1	33.42	7.9	25.4	0.53
A1	02 Dec 2024	19	11.58	91.66	5.1	33.43	7.9	25.4	0.54
A1	11 Dec 2024	1	13.07	91.38	7.5	33.32	8.1	25.1	3.07
A1	11 Dec 2024	2	13.07	91.41	7.5	33.33	8.1	25.1	3.16
A1	11 Dec 2024	3	13.06	91.16	7.5	33.33	8.1	25.1	3.34
A1	11 Dec 2024	4	13.06	91.50	7.5	33.33	8.1	25.1	3.08
A1	11 Dec 2024	5	13.05	91.80	7.4	33.33	8.1	25.1	3.80
A1	11 Dec 2024	6	13.03	91.41	7.4	33.33	8.1	25.1	3.42
A1	11 Dec 2024	7	13.02	91.21	7.4	33.33	8.1	25.1	3.42
A1	11 Dec 2024	8	13.02	90.60	7.4	33.33	8.1	25.1	4.07
A1	11 Dec 2024	9	13.02	90.98	7.4	33.33	8.1	25.1	3.45
A1	11 Dec 2024	10	13.01	91.52	7.4	33.33	8.1	25.1	3.21
A1	11 Dec 2024	11	13.01	91.50	7.4	33.33	8.1	25.1	3.35
A1	11 Dec 2024	12	13.01	91.19	7.4	33.33	8.1	25.1	3.25
A1	11 Dec 2024	13	13.00	91.21	7.4	33.33	8.1	25.1	3.78
A1	11 Dec 2024	14	12.99	89.55	7.3	33.34	8.1	25.1	3.49
A1	11 Dec 2024	15	12.87	89.99	7.0	33.35	8.0	25.1	3.44
A1	11 Dec 2024	16	12.31	90.94	6.4	33.40	8.0	25.3	2.34
A1	11 Dec 2024	17	12.40	93.23	6.0	33.36	7.9	25.2	1.81
A1	11 Dec 2024	18	12.11	93.52	5.6	33.39	7.9	25.3	1.18
A1	11 Dec 2024	19	12.08	94.21	5.4	33.39	7.9	25.3	0.79
A1	17 Dec 2024	1	13.33	85.21	8.0	33.33	8.1	25.0	4.02
A1	17 Dec 2024	2	13.33	85.37	8.0	33.33	8.1	25.0	4.03
A1	17 Dec 2024	3	13.34	85.10	8.0	33.33	8.1	25.0	4.55
A1	17 Dec 2024	4	13.33	85.05	8.0	33.33	8.1	25.0	4.67
A1	17 Dec 2024	5	13.32	85.09	7.9	33.33	8.1	25.0	4.85
A1	17 Dec 2024	6	13.29	85.34	7.7	33.34	8.1	25.0	3.95
A1	17 Dec 2024	7	13.20	86.49	7.6	33.34	8.1	25.1	3.62
A1	17 Dec 2024	8	13.16	87.55	7.4	33.34	8.0	25.1	3.20
A1	17 Dec 2024	9	13.13	87.84	7.3	33.34	8.0	25.1	2.75
A1	17 Dec 2024	10	13.12	87.92	7.3	33.34	8.0	25.1	3.34
A1	17 Dec 2024	11	13.09	88.29	7.3	33.34	8.0	25.1	2.82
A1	17 Dec 2024	12	13.05	87.65	7.2	33.34	8.0	25.1	2.68
A1	17 Dec 2024	13	13.02	88.53	7.1	33.34	8.0	25.1	3.08
A1	17 Dec 2024	14	12.98	88.72	7.0	33.35	8.0	25.1	2.84
A1	17 Dec 2024	15	12.89	89.40	6.9	33.35	8.0	25.1	2.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	17 Dec 2024	16	12.71	89.88	6.6	33.36	8.0	25.2	2.51
A1	17 Dec 2024	17	12.49	90.10	6.2	33.38	8.0	25.2	2.22
A1	17 Dec 2024	18	12.18	91.72	5.8	33.40	7.9	25.3	1.69
A1	17 Dec 2024	19	12.27	92.31	5.7	33.40	7.9	25.3	1.73
A1	26 Dec 2024	1	13.17	87.65	7.6	33.34	8.0	25.1	2.70
A1	26 Dec 2024	2	13.17	88.03	7.6	33.34	8.0	25.1	2.87
A1	26 Dec 2024	3	13.16	88.41	7.6	33.34	8.0	25.1	2.99
A1	26 Dec 2024	4	13.15	88.48	7.5	33.34	8.0	25.1	3.00
A1	26 Dec 2024	5	13.14	88.95	7.4	33.33	8.0	25.1	2.94
A1	26 Dec 2024	6	13.07	89.24	7.3	33.34	8.0	25.1	2.60
A1	26 Dec 2024	7	12.81	90.11	7.0	33.34	8.0	25.1	2.53
A1	26 Dec 2024	8	12.68	93.04	6.8	33.34	8.0	25.2	2.49
A1	26 Dec 2024	9	12.72	94.47	6.6	33.34	8.0	25.2	2.26
A1	26 Dec 2024	10	12.54	93.80	6.4	33.35	8.0	25.2	2.07
A1	26 Dec 2024	11	12.48	93.72	6.3	33.35	7.9	25.2	1.50
A1	26 Dec 2024	12	12.44	93.23	6.2	33.36	7.9	25.2	1.37
A1	26 Dec 2024	13	12.46	93.21	6.2	33.35	7.9	25.2	1.35
A1	26 Dec 2024	14	12.38	92.98	6.1	33.37	7.9	25.2	1.26
A1	26 Dec 2024	15	12.36	92.55	6.0	33.37	7.9	25.3	1.22
A1	26 Dec 2024	16	12.20	92.23	5.8	33.40	7.9	25.3	1.21
A1	26 Dec 2024	17	11.98	90.50	5.5	33.43	7.9	25.4	0.92
A1	26 Dec 2024	18	11.85	86.77	5.2	33.45	7.8	25.4	0.69
A1	26 Dec 2024	19	11.82	82.72	5.1	33.46	7.8	25.4	0.56
A1	30 Dec 2024	1	13.11	78.18	7.9	33.37	8.0	25.1	2.79
A1	30 Dec 2024	2	13.12	78.17	7.9	33.37	8.0	25.1	3.04
A1	30 Dec 2024	3	13.07	78.37	7.8	33.38	8.0	25.1	3.13
A1	30 Dec 2024	4	13.03	79.31	7.7	33.38	8.0	25.1	2.84
A1	30 Dec 2024	5	12.97	80.13	7.5	33.39	8.0	25.2	2.69
A1	30 Dec 2024	6	12.86	81.14	7.3	33.40	7.9	25.2	2.31
A1	30 Dec 2024	7	12.79	82.22	7.0	33.39	7.9	25.2	2.00
A1	30 Dec 2024	8	12.38	84.40	6.5	33.41	7.9	25.3	1.46
A1	30 Dec 2024	9	12.21	86.06	6.0	33.40	7.9	25.3	0.96
A1	30 Dec 2024	10	11.97	86.90	5.7	33.41	7.8	25.4	0.81
A1	30 Dec 2024	11	11.72	92.02	5.4	33.43	7.8	25.4	0.68
A1	30 Dec 2024	12	11.61	92.40	5.2	33.44	7.8	25.4	0.56
A1	30 Dec 2024	13	11.53	93.48	5.0	33.45	7.8	25.5	0.48
A1	30 Dec 2024	14	11.50	93.04	4.9	33.47	7.8	25.5	0.44
A1	30 Dec 2024	15	11.51	92.41	4.8	33.48	7.8	25.5	0.40
A1	30 Dec 2024	16	11.44	89.24	4.6	33.52	7.8	25.5	0.38
A1	30 Dec 2024	17	11.45	87.31	4.5	33.52	7.8	25.5	0.34
A1	30 Dec 2024	18	11.46	87.47	4.4	33.52	7.8	25.5	0.35
A1	30 Dec 2024	19	11.43	85.84	4.3	33.54	7.8	25.6	0.32
A1	30 Dec 2024	20	11.42	84.83	4.2	33.55	7.8	25.6	0.32
C4	02 Dec 2024	1	13.53	93.44	6.8	33.34	8.0	25.0	0.89
C4	02 Dec 2024	2	13.51	93.68	6.8	33.34	8.0	25.0	0.86
C4	02 Dec 2024	3	13.48	93.43	6.8	33.34	8.0	25.0	0.85
C4	02 Dec 2024	4	13.44	93.60	6.8	33.34	8.0	25.0	0.89
C4	02 Dec 2024	5	13.40	93.59	6.8	33.34	8.0	25.0	1.04
C4	02 Dec 2024	6	13.37	93.42	6.7	33.34	8.0	25.0	1.10
C4	02 Dec 2024	7	13.36	93.33	6.6	33.34	8.0	25.0	1.15
C4	02 Dec 2024	8	13.31	93.98	6.4	33.35	8.0	25.1	1.20
C4	02 Dec 2024	9	13.02	93.89	5.9	33.37	8.0	25.1	1.09
C4	02 Dec 2024	10	12.96	90.81	5.6	33.36	7.9	25.1	0.84
C4	02 Dec 2024	11	12.93	87.35	5.4	33.35	7.9	25.1	0.62
C4	11 Dec 2024	1	13.12	89.39	7.6	33.35	8.1	25.1	2.95
C4	11 Dec 2024	2	13.13	89.22	7.6	33.35	8.1	25.1	2.51
C4	11 Dec 2024	3	13.00	89.67	7.4	33.36	8.1	25.1	2.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C4	11 Dec 2024	4	12.96	90.01	7.2	33.35	8.0	25.1	2.61
C4	11 Dec 2024	5	12.93	90.49	7.1	33.36	8.0	25.1	2.63
C4	11 Dec 2024	6	12.91	91.20	7.0	33.36	8.0	25.1	2.53
C4	11 Dec 2024	7	12.74	91.23	6.5	33.38	8.0	25.2	2.75
C4	11 Dec 2024	8	12.41	88.70	5.9	33.40	7.9	25.3	1.86
C4	11 Dec 2024	9	12.39	84.31	5.5	33.39	7.9	25.3	1.11
C4	17 Dec 2024	1	13.26	83.42	7.5	33.34	8.1	25.1	1.83
C4	17 Dec 2024	2	13.25	84.05	7.5	33.34	8.1	25.1	2.10
C4	17 Dec 2024	3	13.24	85.13	7.5	33.34	8.1	25.1	2.23
C4	17 Dec 2024	4	13.24	85.11	7.5	33.34	8.1	25.1	2.52
C4	17 Dec 2024	5	13.22	85.24	7.5	33.34	8.1	25.1	2.80
C4	17 Dec 2024	6	13.21	85.42	7.5	33.34	8.1	25.1	3.17
C4	17 Dec 2024	7	13.07	85.24	7.3	33.35	8.1	25.1	3.27
C4	17 Dec 2024	8	13.03	85.34	7.0	33.35	8.0	25.1	2.71
C4	17 Dec 2024	9	12.86	87.37	6.7	33.36	8.0	25.2	2.52
C4	17 Dec 2024	10	12.68	89.30	6.2	33.37	8.0	25.2	1.66
C4	17 Dec 2024	11	12.49	88.25	5.6	33.38	7.9	25.2	1.30
C4	17 Dec 2024	12	12.49	86.34	5.4	33.37	7.9	25.2	1.24
C4	26 Dec 2024	1	13.18	40.95	8.4	33.37	8.0	25.1	1.16
C4	26 Dec 2024	2	13.18	40.82	8.4	33.37	8.0	25.1	1.24
C4	26 Dec 2024	3	13.17	40.84	8.3	33.37	8.0	25.1	1.19
C4	26 Dec 2024	4	13.15	41.02	8.2	33.37	8.0	25.1	1.19
C4	26 Dec 2024	5	13.09	42.55	7.9	33.38	8.0	25.1	1.10
C4	26 Dec 2024	6	13.08	48.33	7.7	33.38	8.0	25.1	1.10
C4	26 Dec 2024	7	13.06	52.07	7.6	33.38	8.0	25.1	1.10
C4	26 Dec 2024	8	13.06	50.88	7.6	33.38	8.0	25.1	1.07
C4	26 Dec 2024	9	12.92	52.73	7.2	33.40	8.0	25.2	1.04
C4	26 Dec 2024	10	12.81	51.36	6.7	33.40	8.0	25.2	0.92
C4	26 Dec 2024	11	12.80	49.06	6.5	33.40	8.0	25.2	0.87
C4	30 Dec 2024	1	12.90	80.97	7.3	33.40	8.0	25.2	1.65
C4	30 Dec 2024	2	12.90	80.75	7.3	33.40	8.0	25.2	1.70
C4	30 Dec 2024	3	12.91	80.25	7.3	33.40	8.0	25.2	1.75
C4	30 Dec 2024	4	12.91	80.07	7.3	33.40	8.0	25.2	1.87
C4	30 Dec 2024	5	12.91	79.90	7.3	33.41	8.0	25.2	1.78
C4	30 Dec 2024	6	12.91	79.91	7.2	33.41	7.9	25.2	1.76
C4	30 Dec 2024	7	12.88	80.18	7.1	33.41	7.9	25.2	1.64
C4	30 Dec 2024	8	12.74	80.47	6.8	33.43	7.9	25.2	1.33
C4	30 Dec 2024	9	12.48	80.55	6.3	33.46	7.9	25.3	1.01
C4	30 Dec 2024	10	12.10	81.73	5.6	33.48	7.8	25.4	0.74
C4	30 Dec 2024	11	12.06	77.02	5.2	33.47	7.8	25.4	0.54
C4	30 Dec 2024	12	12.06	70.05	5.0	33.47	7.8	25.4	0.53
A7	02 Dec 2024	1	13.57	94.08	7.0	33.34	8.1	25.0	1.31
A7	02 Dec 2024	2	13.57	94.25	7.1	33.34	8.1	25.0	1.32
A7	02 Dec 2024	3	13.57	94.44	7.1	33.34	8.1	25.0	1.26
A7	02 Dec 2024	4	13.54	94.82	7.0	33.34	8.1	25.0	1.37
A7	02 Dec 2024	5	13.52	95.00	7.1	33.34	8.1	25.0	1.39
A7	02 Dec 2024	6	13.52	95.09	7.0	33.34	8.1	25.0	1.27
A7	02 Dec 2024	7	13.52	95.26	7.1	33.34	8.1	25.0	1.37
A7	02 Dec 2024	8	13.50	94.85	7.0	33.34	8.1	25.0	1.38
A7	02 Dec 2024	9	13.45	95.41	6.9	33.34	8.1	25.0	1.21
A7	02 Dec 2024	10	13.20	95.59	6.6	33.37	8.0	25.1	0.97
A7	02 Dec 2024	11	12.74	95.76	6.1	33.38	8.0	25.2	0.77
A7	02 Dec 2024	12	12.31	95.81	5.7	33.41	8.0	25.3	0.61
A7	02 Dec 2024	13	12.13	95.86	5.6	33.39	7.9	25.3	0.47
A7	02 Dec 2024	14	12.13	95.93	5.5	33.38	7.9	25.3	0.44
A7	02 Dec 2024	15	12.09	96.01	5.4	33.39	7.9	25.3	0.48
A7	02 Dec 2024	16	12.06	95.94	5.4	33.39	7.9	25.3	0.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	02 Dec 2024	17	12.04	95.88	5.4	33.39	7.9	25.3	0.48
A7	02 Dec 2024	18	12.02	95.82	5.4	33.39	7.9	25.3	0.49
A7	11 Dec 2024	1	13.47	90.33	8.0	33.32	8.1	25.0	3.13
A7	11 Dec 2024	2	13.47	89.74	8.0	33.32	8.1	25.0	2.86
A7	11 Dec 2024	3	13.47	89.84	8.0	33.33	8.1	25.0	3.23
A7	11 Dec 2024	4	13.47	90.05	8.0	33.33	8.1	25.0	3.36
A7	11 Dec 2024	5	13.47	90.30	8.0	33.33	8.1	25.0	3.14
A7	11 Dec 2024	6	13.46	88.53	8.0	33.33	8.1	25.0	3.33
A7	11 Dec 2024	7	13.46	90.07	8.0	33.33	8.1	25.0	3.39
A7	11 Dec 2024	8	13.43	90.38	7.8	33.34	8.1	25.0	3.33
A7	11 Dec 2024	9	13.20	90.35	7.5	33.37	8.1	25.1	2.90
A7	11 Dec 2024	10	12.82	90.62	7.0	33.38	8.0	25.2	2.97
A7	11 Dec 2024	11	12.59	91.99	6.7	33.37	8.0	25.2	2.65
A7	11 Dec 2024	12	12.55	93.26	6.5	33.36	8.0	25.2	2.38
A7	11 Dec 2024	13	12.44	94.00	6.3	33.38	8.0	25.2	2.06
A7	11 Dec 2024	14	12.25	94.10	6.0	33.38	7.9	25.3	1.82
A7	11 Dec 2024	15	12.20	94.45	5.9	33.38	7.9	25.3	1.43
A7	11 Dec 2024	16	12.11	95.14	5.8	33.38	7.9	25.3	1.21
A7	11 Dec 2024	17	12.06	95.22	5.7	33.38	7.9	25.3	1.35
A7	11 Dec 2024	18	12.01	95.65	5.7	33.38	7.9	25.3	0.99
A7	11 Dec 2024	19	12.00	95.57	5.6	33.38	7.9	25.3	0.91
A7	11 Dec 2024	20	11.99	95.63	5.6	33.38	7.9	25.3	0.87
A7	17 Dec 2024	1	13.46	84.51	8.0	33.33	8.1	25.0	3.94
A7	17 Dec 2024	2	13.48	84.29	8.0	33.33	8.1	25.0	3.94
A7	17 Dec 2024	3	13.48	84.46	8.0	33.33	8.1	25.0	4.03
A7	17 Dec 2024	4	13.47	84.66	7.9	33.33	8.1	25.0	4.41
A7	17 Dec 2024	5	13.43	84.96	7.8	33.33	8.1	25.0	3.79
A7	17 Dec 2024	6	13.31	85.15	7.7	33.34	8.1	25.0	3.32
A7	17 Dec 2024	7	13.26	86.97	7.5	33.34	8.1	25.1	3.00
A7	17 Dec 2024	8	13.19	88.42	7.3	33.35	8.1	25.1	2.61
A7	17 Dec 2024	9	13.07	88.76	7.0	33.35	8.0	25.1	2.23
A7	17 Dec 2024	10	12.85	89.18	6.7	33.37	8.0	25.2	1.73
A7	17 Dec 2024	11	12.68	90.24	6.4	33.38	8.0	25.2	1.74
A7	17 Dec 2024	12	12.62	90.52	6.3	33.38	8.0	25.2	1.62
A7	17 Dec 2024	13	12.55	90.73	6.2	33.38	8.0	25.2	1.53
A7	17 Dec 2024	14	12.52	90.83	6.2	33.38	8.0	25.2	1.49
A7	17 Dec 2024	15	12.50	90.97	6.1	33.38	8.0	25.2	1.36
A7	17 Dec 2024	16	12.40	91.04	6.0	33.39	8.0	25.3	1.37
A7	17 Dec 2024	17	12.29	91.36	5.8	33.40	7.9	25.3	1.31
A7	17 Dec 2024	18	12.05	92.10	5.5	33.42	7.9	25.4	1.05
A7	17 Dec 2024	19	12.03	92.47	5.4	33.42	7.9	25.4	0.85
A7	17 Dec 2024	20	11.91	92.86	5.2	33.44	7.9	25.4	0.74
A7	17 Dec 2024	21	11.81	93.04	5.2	33.45	7.9	25.4	0.67
A7	26 Dec 2024	1	13.34	84.62	7.9	33.35	8.1	25.0	3.17
A7	26 Dec 2024	2	13.33	84.46	7.9	33.35	8.1	25.0	3.31
A7	26 Dec 2024	3	13.30	84.61	7.9	33.35	8.1	25.1	3.34
A7	26 Dec 2024	4	13.18	84.90	7.6	33.36	8.1	25.1	3.13
A7	26 Dec 2024	5	13.12	85.59	7.4	33.35	8.0	25.1	2.84
A7	26 Dec 2024	6	12.96	86.12	7.2	33.37	8.0	25.1	2.78
A7	26 Dec 2024	7	12.68	88.96	6.8	33.35	8.0	25.2	2.19
A7	26 Dec 2024	8	12.67	91.23	6.6	33.35	8.0	25.2	1.84
A7	26 Dec 2024	9	12.65	91.89	6.6	33.35	8.0	25.2	1.79
A7	26 Dec 2024	10	12.58	92.18	6.4	33.36	8.0	25.2	1.60
A7	26 Dec 2024	11	12.40	91.98	6.2	33.38	7.9	25.3	1.36
A7	26 Dec 2024	12	12.21	91.64	5.9	33.39	7.9	25.3	1.20
A7	26 Dec 2024	13	12.11	89.30	5.6	33.42	7.9	25.3	1.01
A7	26 Dec 2024	14	12.08	82.71	5.4	33.42	7.9	25.3	0.83
A7	26 Dec 2024	15	12.08	79.59	5.3	33.42	7.9	25.4	0.69

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	26 Dec 2024	16	11.94	79.08	5.2	33.45	7.9	25.4	0.63
A7	26 Dec 2024	17	11.86	73.69	5.0	33.46	7.8	25.4	0.64
A7	26 Dec 2024	18	11.82	74.14	4.9	33.47	7.8	25.4	0.62
A7	26 Dec 2024	19	11.72	67.40	4.7	33.49	7.8	25.5	0.52
A7	26 Dec 2024	20	11.74	62.31	4.7	33.48	7.8	25.5	0.46
A7	30 Dec 2024	1	13.15	77.85	7.9	33.37	8.0	25.1	2.71
A7	30 Dec 2024	2	13.16	78.32	7.9	33.37	8.0	25.1	2.85
A7	30 Dec 2024	3	13.15	78.25	7.9	33.37	8.0	25.1	2.95
A7	30 Dec 2024	4	13.12	77.92	7.8	33.37	8.0	25.1	3.32
A7	30 Dec 2024	5	13.10	77.84	7.7	33.37	8.0	25.1	3.33
A7	30 Dec 2024	6	13.04	78.55	7.6	33.38	8.0	25.1	2.91
A7	30 Dec 2024	7	12.90	80.24	7.4	33.40	8.0	25.2	2.73
A7	30 Dec 2024	8	12.90	81.32	7.3	33.39	8.0	25.2	2.73
A7	30 Dec 2024	9	12.77	82.34	7.0	33.41	7.9	25.2	2.33
A7	30 Dec 2024	10	12.43	83.46	6.4	33.43	7.9	25.3	1.66
A7	30 Dec 2024	11	11.99	86.91	5.8	33.42	7.9	25.4	1.12
A7	30 Dec 2024	12	11.69	91.21	5.4	33.46	7.8	25.5	0.71
A7	30 Dec 2024	13	11.60	92.34	5.1	33.45	7.8	25.5	0.49
A7	30 Dec 2024	14	11.54	92.19	4.9	33.51	7.8	25.5	0.45
A7	30 Dec 2024	15	11.42	90.90	4.6	33.53	7.8	25.6	0.39
A7	30 Dec 2024	16	11.42	88.18	4.3	33.55	7.8	25.6	0.32
A7	30 Dec 2024	17	11.42	83.42	4.2	33.56	7.8	25.6	0.34
A7	30 Dec 2024	18	11.42	85.77	4.1	33.56	7.8	25.6	0.31
A7	30 Dec 2024	19	11.42	82.01	4.1	33.57	7.8	25.6	0.30
C5	02 Dec 2024	1	13.80	77.52	6.7	33.36	8.0	25.0	0.38
C5	02 Dec 2024	2	13.81	77.58	6.7	33.36	8.0	25.0	0.37
C5	02 Dec 2024	3	13.78	77.21	6.7	33.37	8.0	25.0	0.40
C5	02 Dec 2024	4	13.68	76.86	6.6	33.37	8.0	25.0	0.48
C5	02 Dec 2024	5	13.63	77.78	6.5	33.36	8.0	25.0	0.65
C5	02 Dec 2024	6	13.57	78.71	6.5	33.36	8.0	25.0	0.72
C5	02 Dec 2024	7	13.50	79.62	6.4	33.37	8.0	25.0	0.63
C5	02 Dec 2024	8	13.40	82.93	6.2	33.37	8.0	25.0	0.50
C5	02 Dec 2024	9	13.25	84.99	5.9	33.37	8.0	25.1	0.47
C5	02 Dec 2024	10	12.89	85.00	5.6	33.38	7.9	25.2	0.39
C5	02 Dec 2024	11	12.85	76.43	5.4	33.37	7.9	25.2	0.38
C5	11 Dec 2024	1	13.46	67.02	7.4	33.36	8.0	25.0	1.31
C5	11 Dec 2024	2	13.37	65.33	7.2	33.37	8.0	25.1	1.50
C5	11 Dec 2024	3	13.29	63.32	6.8	33.37	8.0	25.1	1.65
C5	11 Dec 2024	4	12.88	52.34	6.3	33.40	8.0	25.2	1.60
C5	11 Dec 2024	5	12.55	38.50	6.0	33.39	7.9	25.2	1.42
C5	11 Dec 2024	6	12.42	67.98	5.8	33.38	7.9	25.3	1.11
C5	11 Dec 2024	7	12.39	83.01	5.7	33.38	7.9	25.3	1.02
C5	11 Dec 2024	8	12.34	85.82	5.6	33.38	7.9	25.3	1.06
C5	11 Dec 2024	9	12.30	83.65	5.5	33.38	7.9	25.3	0.97
C5	11 Dec 2024	10	12.30	79.49	5.5	33.38	7.9	25.3	0.86
C5	17 Dec 2024	1	13.47	84.12	7.3	33.34	8.0	25.0	1.13
C5	17 Dec 2024	2	13.47	84.03	7.3	33.34	8.0	25.0	1.15
C5	17 Dec 2024	3	13.42	84.01	7.2	33.35	8.0	25.0	1.18
C5	17 Dec 2024	4	13.38	83.87	7.1	33.35	8.0	25.0	1.37
C5	17 Dec 2024	5	13.34	84.09	7.0	33.35	8.0	25.0	1.37
C5	17 Dec 2024	6	13.30	85.07	6.8	33.35	8.0	25.1	1.18
C5	17 Dec 2024	7	13.28	85.44	6.7	33.35	8.0	25.1	1.03
C5	17 Dec 2024	8	13.19	85.76	6.6	33.36	8.0	25.1	0.97
C5	17 Dec 2024	9	13.06	86.18	6.3	33.36	8.0	25.1	0.92
C5	17 Dec 2024	10	12.78	86.47	5.8	33.38	7.9	25.2	0.75
C5	17 Dec 2024	11	12.68	87.51	5.5	33.37	7.9	25.2	0.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	26 Dec 2024	1	13.02	71.78	7.4	33.37	8.0	25.1	1.29
C5	26 Dec 2024	2	13.02	71.03	7.4	33.37	8.0	25.1	1.39
C5	26 Dec 2024	3	13.01	71.23	7.3	33.37	8.0	25.1	1.42
C5	26 Dec 2024	4	13.00	72.15	7.3	33.37	8.0	25.1	1.48
C5	26 Dec 2024	5	12.95	73.17	7.1	33.37	8.0	25.1	1.56
C5	26 Dec 2024	6	12.78	75.01	6.8	33.38	8.0	25.2	1.42
C5	26 Dec 2024	7	12.73	80.10	6.7	33.37	8.0	25.2	1.49
C5	26 Dec 2024	8	12.71	81.49	6.6	33.37	8.0	25.2	1.43
C5	26 Dec 2024	9	12.70	81.21	6.5	33.37	8.0	25.2	1.35
C5	26 Dec 2024	10	12.64	80.85	6.4	33.38	8.0	25.2	1.24
C5	26 Dec 2024	11	12.51	78.42	6.2	33.39	7.9	25.2	1.35
C5	30 Dec 2024	1	12.85	72.80	7.2	33.40	7.9	25.2	1.15
C5	30 Dec 2024	2	12.84	77.80	7.2	33.41	7.9	25.2	1.28
C5	30 Dec 2024	3	12.74	78.36	7.0	33.42	7.9	25.2	1.25
C5	30 Dec 2024	4	12.72	77.33	6.9	33.41	7.9	25.2	1.14
C5	30 Dec 2024	5	12.71	77.58	6.8	33.41	7.9	25.2	0.99
C5	30 Dec 2024	6	12.63	78.56	6.6	33.41	7.9	25.2	0.90
C5	30 Dec 2024	7	12.61	80.44	6.4	33.41	7.9	25.2	0.94
C5	30 Dec 2024	8	12.58	82.41	6.3	33.41	7.9	25.2	0.79
C5	30 Dec 2024	9	12.50	82.41	6.1	33.43	7.9	25.3	0.72
C5	30 Dec 2024	10	12.10	78.94	5.7	33.47	7.8	25.4	0.75
C5	30 Dec 2024	11	12.04	72.00	5.4	33.46	7.8	25.4	0.65
A6	02 Dec 2024	1	13.46	94.14	6.6	33.36	8.0	25.0	0.91
A6	02 Dec 2024	2	13.49	94.07	6.7	33.35	8.0	25.0	0.97
A6	02 Dec 2024	3	13.39	93.94	6.4	33.37	8.0	25.0	0.93
A6	02 Dec 2024	4	13.20	94.42	6.1	33.37	8.0	25.1	0.85
A6	02 Dec 2024	5	13.08	94.56	6.0	33.37	8.0	25.1	0.82
A6	02 Dec 2024	6	13.00	94.82	5.9	33.37	8.0	25.1	0.77
A6	02 Dec 2024	7	12.93	95.03	5.8	33.37	8.0	25.1	0.71
A6	02 Dec 2024	8	12.86	95.07	5.8	33.37	7.9	25.2	0.68
A6	02 Dec 2024	9	12.73	95.23	5.7	33.38	7.9	25.2	0.62
A6	02 Dec 2024	10	12.64	95.22	5.7	33.37	7.9	25.2	0.60
A6	02 Dec 2024	11	12.56	95.41	5.6	33.38	7.9	25.2	0.54
A6	02 Dec 2024	12	12.39	95.37	5.6	33.38	7.9	25.3	0.52
A6	02 Dec 2024	13	12.30	95.40	5.5	33.38	7.9	25.3	0.52
A6	02 Dec 2024	14	12.23	95.68	5.5	33.38	7.9	25.3	0.54
A6	02 Dec 2024	15	12.20	95.73	5.4	33.38	7.9	25.3	0.53
A6	02 Dec 2024	16	11.81	95.62	5.4	33.42	7.9	25.4	0.55
A6	02 Dec 2024	17	11.62	95.31	5.3	33.42	7.9	25.4	0.60
A6	02 Dec 2024	18	11.46	94.77	5.2	33.44	7.9	25.5	0.68
A6	02 Dec 2024	19	11.41	93.98	5.1	33.44	7.9	25.5	0.66
A6	11 Dec 2024	1	13.47	89.76	7.8	33.32	8.1	25.0	2.49
A6	11 Dec 2024	2	13.46	90.03	7.8	33.32	8.1	25.0	2.72
A6	11 Dec 2024	3	13.45	90.00	7.8	33.33	8.1	25.0	2.99
A6	11 Dec 2024	4	13.45	89.80	7.8	33.33	8.1	25.0	3.46
A6	11 Dec 2024	5	13.44	89.51	7.8	33.33	8.1	25.0	4.03
A6	11 Dec 2024	6	13.44	89.86	7.8	33.33	8.1	25.0	4.07
A6	11 Dec 2024	7	13.42	89.44	7.8	33.34	8.1	25.0	4.18
A6	11 Dec 2024	8	13.41	88.90	7.8	33.34	8.1	25.0	3.69
A6	11 Dec 2024	9	13.40	88.81	7.8	33.34	8.1	25.0	3.96
A6	11 Dec 2024	10	13.40	89.39	7.8	33.34	8.1	25.0	3.83
A6	11 Dec 2024	11	13.30	90.07	7.7	33.35	8.1	25.1	3.54
A6	11 Dec 2024	12	13.16	90.36	7.5	33.35	8.1	25.1	3.87
A6	11 Dec 2024	13	12.98	90.97	7.2	33.37	8.0	25.1	3.97
A6	11 Dec 2024	14	12.96	91.11	7.0	33.36	8.0	25.1	3.20
A6	11 Dec 2024	15	12.86	92.08	6.9	33.36	8.0	25.2	2.94
A6	11 Dec 2024	16	12.78	92.81	6.7	33.36	8.0	25.2	2.33
A6	11 Dec 2024	17	12.66	93.28	6.6	33.38	8.0	25.2	2.01

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	11 Dec 2024	18	12.45	94.00	6.3	33.38	8.0	25.2	1.59
A6	11 Dec 2024	19	12.36	94.48	6.1	33.38	8.0	25.3	1.55
A6	11 Dec 2024	20	12.14	94.45	5.8	33.40	7.9	25.3	1.62
A6	11 Dec 2024	21	11.95	94.68	5.6	33.41	7.9	25.4	1.24
A6	17 Dec 2024	1	13.57	83.38	8.1	33.33	8.1	25.0	2.20
A6	17 Dec 2024	2	13.57	84.39	8.1	33.33	8.1	25.0	2.38
A6	17 Dec 2024	3	13.57	84.69	8.1	33.33	8.1	25.0	2.73
A6	17 Dec 2024	4	13.48	84.68	7.9	33.34	8.1	25.0	2.72
A6	17 Dec 2024	5	13.44	85.45	7.8	33.34	8.1	25.0	2.66
A6	17 Dec 2024	6	13.45	85.60	7.7	33.34	8.1	25.0	2.83
A6	17 Dec 2024	7	13.40	85.67	7.7	33.34	8.1	25.0	2.62
A6	17 Dec 2024	8	13.34	86.06	7.5	33.34	8.1	25.0	2.81
A6	17 Dec 2024	9	13.10	86.41	7.2	33.35	8.0	25.1	2.11
A6	17 Dec 2024	10	13.05	87.54	7.1	33.35	8.0	25.1	2.20
A6	17 Dec 2024	11	13.05	87.80	7.0	33.35	8.0	25.1	1.90
A6	17 Dec 2024	12	13.05	87.94	7.0	33.35	8.0	25.1	1.87
A6	17 Dec 2024	13	13.03	87.97	7.0	33.35	8.0	25.1	1.75
A6	17 Dec 2024	14	12.90	88.10	6.8	33.36	8.0	25.1	1.61
A6	17 Dec 2024	15	12.84	88.32	6.5	33.36	8.0	25.2	1.52
A6	17 Dec 2024	16	12.51	88.69	6.1	33.39	8.0	25.2	1.20
A6	17 Dec 2024	17	12.31	89.60	5.8	33.40	7.9	25.3	1.19
A6	17 Dec 2024	18	12.18	91.56	5.5	33.41	7.9	25.3	0.85
A6	17 Dec 2024	19	12.12	91.78	5.4	33.41	7.9	25.3	0.89
A6	17 Dec 2024	20	12.11	91.71	5.3	33.41	7.9	25.3	0.89
A6	26 Dec 2024	1	13.50	83.59	8.2	33.34	8.1	25.0	3.32
A6	26 Dec 2024	2	13.50	83.93	8.2	33.34	8.1	25.0	3.32
A6	26 Dec 2024	3	13.49	82.71	8.2	33.34	8.1	25.0	3.36
A6	26 Dec 2024	4	13.41	78.49	8.1	33.36	8.1	25.0	3.35
A6	26 Dec 2024	5	13.05	74.88	7.8	33.38	8.0	25.1	2.25
A6	26 Dec 2024	6	12.93	77.64	7.3	33.38	8.0	25.1	1.72
A6	26 Dec 2024	7	12.54	81.83	6.7	33.38	8.0	25.2	1.27
A6	26 Dec 2024	8	12.31	83.70	6.2	33.40	7.9	25.3	1.12
A6	26 Dec 2024	9	12.29	83.86	6.0	33.39	7.9	25.3	0.95
A6	26 Dec 2024	10	12.18	83.79	5.9	33.40	7.9	25.3	0.93
A6	26 Dec 2024	11	12.20	83.69	5.8	33.40	7.9	25.3	0.79
A6	26 Dec 2024	12	12.09	83.73	5.6	33.41	7.9	25.3	0.76
A6	26 Dec 2024	13	12.02	84.05	5.5	33.42	7.9	25.4	0.71
A6	26 Dec 2024	14	12.02	84.61	5.4	33.42	7.9	25.4	0.71
A6	26 Dec 2024	15	12.00	84.28	5.4	33.42	7.9	25.4	0.66
A6	26 Dec 2024	16	11.97	83.67	5.3	33.43	7.9	25.4	0.59
A6	26 Dec 2024	17	11.82	81.75	5.2	33.45	7.9	25.4	0.57
A6	26 Dec 2024	18	11.78	81.50	5.0	33.45	7.8	25.4	0.55
A6	26 Dec 2024	19	11.79	75.96	4.9	33.46	7.8	25.4	0.56
A6	26 Dec 2024	20	11.83	61.08	4.9	33.47	7.8	25.4	0.61
A6	30 Dec 2024	1	13.17	80.06	7.6	33.36	8.0	25.1	2.47
A6	30 Dec 2024	2	13.17	79.87	7.7	33.37	8.0	25.1	2.42
A6	30 Dec 2024	3	13.12	78.91	7.6	33.38	8.0	25.1	2.61
A6	30 Dec 2024	4	13.01	78.75	7.5	33.39	8.0	25.1	2.73
A6	30 Dec 2024	5	12.79	79.96	7.2	33.41	8.0	25.2	2.78
A6	30 Dec 2024	6	12.56	82.52	6.7	33.43	7.9	25.3	2.34
A6	30 Dec 2024	7	12.02	86.64	6.1	33.47	7.9	25.4	1.87
A6	30 Dec 2024	8	11.75	90.81	5.6	33.45	7.8	25.4	1.19
A6	30 Dec 2024	9	11.71	93.54	5.3	33.44	7.8	25.4	0.87
A6	30 Dec 2024	10	11.65	94.09	5.2	33.45	7.8	25.5	0.64
A6	30 Dec 2024	11	11.55	93.45	5.0	33.48	7.8	25.5	0.58
A6	30 Dec 2024	12	11.48	91.38	4.8	33.51	7.8	25.5	0.46
A6	30 Dec 2024	13	11.45	88.60	4.6	33.53	7.8	25.5	0.39
A6	30 Dec 2024	14	11.44	87.79	4.5	33.53	7.8	25.6	0.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	30 Dec 2024	15	11.42	87.22	4.4	33.55	7.8	25.6	0.37
A6	30 Dec 2024	16	11.41	87.07	4.3	33.56	7.8	25.6	0.35
A6	30 Dec 2024	17	11.43	87.41	4.3	33.56	7.8	25.6	0.39
A6	30 Dec 2024	18	11.41	86.04	4.2	33.58	7.8	25.6	0.38
A6	30 Dec 2024	19	11.42	82.30	4.0	33.59	7.8	25.6	0.35
A6	30 Dec 2024	20	11.42	78.16	4.0	33.59	7.7	25.6	0.33
C6	02 Dec 2024	1	13.55	92.93	7.0	33.36	8.1	25.0	0.76
C6	02 Dec 2024	2	13.55	93.04	7.0	33.36	8.1	25.0	0.82
C6	02 Dec 2024	3	13.54	92.83	7.0	33.36	8.1	25.0	0.88
C6	02 Dec 2024	4	13.52	92.75	7.0	33.36	8.1	25.0	0.91
C6	02 Dec 2024	5	13.49	92.60	7.0	33.36	8.1	25.0	0.79
C6	02 Dec 2024	6	13.42	91.22	6.7	33.37	8.0	25.0	0.60
C6	02 Dec 2024	7	13.13	88.98	6.3	33.38	8.0	25.1	0.43
C6	02 Dec 2024	8	12.71	85.89	6.0	33.39	8.0	25.2	0.37
C6	02 Dec 2024	9	12.65	84.21	5.7	33.38	8.0	25.2	0.29
C6	02 Dec 2024	10	12.64	84.24	5.7	33.38	7.9	25.2	0.26
C6	11 Dec 2024	1	13.16	79.96	5.6	33.16	8.0	24.9	0.93
C6	11 Dec 2024	2	13.14	80.17	6.8	33.29	8.0	25.0	1.08
C6	11 Dec 2024	3	13.13	80.62	7.2	33.37	8.0	25.1	1.31
C6	11 Dec 2024	4	13.13	81.38	7.2	33.37	8.0	25.1	1.31
C6	11 Dec 2024	5	13.12	81.57	7.1	33.37	8.0	25.1	1.39
C6	11 Dec 2024	6	13.07	82.50	7.0	33.38	8.0	25.1	1.36
C6	11 Dec 2024	7	13.00	83.55	6.9	33.38	8.0	25.1	1.20
C6	11 Dec 2024	8	12.98	84.04	6.7	33.38	8.0	25.1	1.20
C6	11 Dec 2024	9	12.60	82.67	6.2	33.41	8.0	25.2	0.99
C6	11 Dec 2024	10	12.51	81.92	5.8	33.38	7.9	25.2	0.72
C6	11 Dec 2024	11	12.44	81.29	5.7	33.39	7.9	25.3	0.74
C6	17 Dec 2024	1	13.37	81.27	7.6	33.34	8.0	25.0	0.86
C6	17 Dec 2024	2	13.37	81.17	7.6	33.34	8.0	25.0	0.90
C6	17 Dec 2024	3	13.35	81.06	7.6	33.34	8.0	25.0	1.17
C6	17 Dec 2024	4	13.32	80.65	7.5	33.34	8.0	25.0	1.36
C6	17 Dec 2024	5	13.30	79.88	7.3	33.34	8.0	25.0	1.11
C6	17 Dec 2024	6	13.19	75.14	7.0	33.36	8.0	25.1	1.13
C6	17 Dec 2024	7	12.90	80.54	6.3	33.37	8.0	25.2	0.71
C6	17 Dec 2024	8	12.69	82.22	5.7	33.38	7.9	25.2	0.54
C6	17 Dec 2024	9	12.44	80.78	5.3	33.38	7.9	25.3	0.70
C6	17 Dec 2024	10	12.39	78.56	5.1	33.38	7.9	25.3	0.86
C6	26 Dec 2024	1	13.19	77.35	7.8	33.37	8.0	25.1	1.97
C6	26 Dec 2024	2	13.18	77.40	7.8	33.37	8.0	25.1	2.10
C6	26 Dec 2024	3	13.17	77.66	7.7	33.37	8.0	25.1	2.07
C6	26 Dec 2024	4	13.14	76.99	7.5	33.37	8.0	25.1	1.95
C6	26 Dec 2024	5	12.95	78.68	7.1	33.39	8.0	25.2	1.57
C6	26 Dec 2024	6	12.72	81.21	6.7	33.40	8.0	25.2	1.21
C6	26 Dec 2024	7	12.56	79.62	6.4	33.40	8.0	25.2	0.97
C6	26 Dec 2024	8	12.55	75.95	6.2	33.39	7.9	25.2	0.89
C6	26 Dec 2024	9	12.56	73.73	6.2	33.39	7.9	25.2	0.92
C6	26 Dec 2024	10	12.55	72.72	6.2	33.39	7.9	25.2	0.91
C6	26 Dec 2024	11	12.55	72.31	6.2	33.39	7.9	25.2	0.82
C6	30 Dec 2024	1	12.95	78.36	7.7	33.40	8.0	25.2	1.54
C6	30 Dec 2024	2	12.87	77.34	7.7	33.41	8.0	25.2	1.59
C6	30 Dec 2024	3	12.85	76.37	7.6	33.41	7.9	25.2	1.52
C6	30 Dec 2024	4	12.86	75.81	7.6	33.40	7.9	25.2	1.58
C6	30 Dec 2024	5	12.85	76.16	7.6	33.41	7.9	25.2	1.52
C6	30 Dec 2024	6	12.84	76.37	7.5	33.41	7.9	25.2	1.53
C6	30 Dec 2024	7	12.75	76.28	7.2	33.42	7.9	25.2	1.33
C6	30 Dec 2024	8	12.54	76.69	6.8	33.45	7.9	25.3	1.07

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	30 Dec 2024	9	12.33	77.07	6.2	33.44	7.9	25.3	0.80
C6	30 Dec 2024	10	12.41	79.27	6.0	33.43	7.9	25.3	0.69
C6	30 Dec 2024	11	12.30	79.92	5.9	33.44	7.8	25.3	0.64
C7	02 Dec 2024	1	13.67	94.12	7.1	33.35	8.1	25.0	0.78
C7	02 Dec 2024	2	13.67	94.13	7.1	33.35	8.1	25.0	0.83
C7	02 Dec 2024	3	13.66	94.24	7.1	33.35	8.1	25.0	0.99
C7	02 Dec 2024	4	13.57	93.84	6.9	33.35	8.0	25.0	1.47
C7	02 Dec 2024	5	13.45	93.35	6.6	33.36	8.0	25.0	1.19
C7	02 Dec 2024	6	13.25	93.97	6.3	33.36	8.0	25.1	0.86
C7	02 Dec 2024	7	13.07	95.42	6.0	33.36	8.0	25.1	0.74
C7	02 Dec 2024	8	12.97	95.49	5.9	33.36	8.0	25.1	0.76
C7	02 Dec 2024	9	12.90	95.33	5.9	33.35	8.0	25.1	0.73
C7	02 Dec 2024	10	12.82	95.40	5.8	33.35	8.0	25.2	0.74
C7	02 Dec 2024	11	12.72	95.50	5.8	33.36	7.9	25.2	0.80
C7	02 Dec 2024	12	12.58	95.45	5.7	33.37	7.9	25.2	0.60
C7	02 Dec 2024	13	12.22	95.73	5.7	33.39	7.9	25.3	0.52
C7	02 Dec 2024	14	12.07	96.08	5.6	33.37	7.9	25.3	0.54
C7	02 Dec 2024	15	11.99	96.62	5.6	33.37	7.9	25.3	0.58
C7	02 Dec 2024	16	11.89	96.64	5.6	33.37	7.9	25.3	0.60
C7	02 Dec 2024	17	11.85	97.05	5.5	33.38	7.9	25.4	0.55
C7	02 Dec 2024	18	11.82	96.44	5.4	33.39	7.9	25.4	0.52
C7	02 Dec 2024	19	11.73	95.48	5.4	33.40	7.9	25.4	0.43
C7	11 Dec 2024	1	13.25	86.92	7.1	33.35	8.1	25.1	3.10
C7	11 Dec 2024	2	13.26	87.03	7.4	33.35	8.1	25.1	3.54
C7	11 Dec 2024	3	13.26	86.84	7.6	33.35	8.1	25.1	2.80
C7	11 Dec 2024	4	13.25	87.05	7.7	33.36	8.1	25.1	3.07
C7	11 Dec 2024	5	13.25	87.15	7.7	33.36	8.1	25.1	2.67
C7	11 Dec 2024	6	13.18	86.85	7.6	33.40	8.1	25.1	3.24
C7	11 Dec 2024	7	12.91	87.86	7.4	33.43	8.0	25.2	3.08
C7	11 Dec 2024	8	12.83	90.49	7.0	33.39	8.0	25.2	3.24
C7	11 Dec 2024	9	12.80	91.67	6.8	33.38	8.0	25.2	3.14
C7	11 Dec 2024	10	12.79	91.87	6.6	33.37	8.0	25.2	3.01
C7	11 Dec 2024	11	12.77	91.99	6.5	33.37	8.0	25.2	2.61
C7	11 Dec 2024	12	12.63	91.89	6.4	33.39	8.0	25.2	2.26
C7	11 Dec 2024	13	12.47	92.37	6.2	33.39	8.0	25.3	2.19
C7	11 Dec 2024	14	12.34	93.36	6.0	33.39	7.9	25.3	1.84
C7	11 Dec 2024	15	12.24	94.20	5.8	33.39	7.9	25.3	1.46
C7	11 Dec 2024	16	12.15	94.68	5.7	33.40	7.9	25.3	1.45
C7	11 Dec 2024	17	11.97	95.01	5.5	33.42	7.9	25.4	1.07
C7	11 Dec 2024	18	11.89	94.34	5.3	33.41	7.9	25.4	0.77
C7	11 Dec 2024	19	11.86	94.06	5.3	33.41	7.9	25.4	0.72
C7	17 Dec 2024	1	13.75	91.90	7.6	33.27	8.1	24.9	2.39
C7	17 Dec 2024	2	13.75	91.80	8.1	33.30	8.1	24.9	2.49
C7	17 Dec 2024	3	13.69	91.91	8.3	33.32	8.1	25.0	2.42
C7	17 Dec 2024	4	13.67	91.95	8.3	33.32	8.1	25.0	2.43
C7	17 Dec 2024	5	13.65	92.21	8.3	33.31	8.1	25.0	2.83
C7	17 Dec 2024	6	13.65	92.39	8.3	33.32	8.1	25.0	3.05
C7	17 Dec 2024	7	13.65	92.29	8.3	33.32	8.1	25.0	3.64
C7	17 Dec 2024	8	13.62	92.26	8.3	33.32	8.1	25.0	3.18
C7	17 Dec 2024	9	13.59	92.07	8.2	33.32	8.1	25.0	3.17
C7	17 Dec 2024	10	13.54	92.70	8.1	33.32	8.1	25.0	2.89
C7	17 Dec 2024	11	13.41	93.09	8.0	33.32	8.1	25.0	2.52
C7	17 Dec 2024	12	13.32	93.55	7.7	33.33	8.1	25.0	2.43
C7	17 Dec 2024	13	13.10	93.37	7.4	33.35	8.1	25.1	2.24
C7	17 Dec 2024	14	12.91	91.66	7.0	33.35	8.0	25.1	2.30
C7	17 Dec 2024	15	12.69	90.27	6.5	33.39	8.0	25.2	2.13
C7	17 Dec 2024	16	12.13	88.44	5.9	33.42	7.9	25.3	1.29
C7	17 Dec 2024	17	12.16	89.33	5.5	33.39	7.9	25.3	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	17 Dec 2024	18	12.16	89.73	5.5	33.40	7.9	25.3	0.98
C7	17 Dec 2024	19	12.08	90.40	5.4	33.40	7.9	25.3	0.82
C7	26 Dec 2024	2	13.25	63.14	8.1	33.36	8.0	25.1	2.85
C7	26 Dec 2024	3	13.24	62.69	8.1	33.36	8.0	25.1	2.87
C7	26 Dec 2024	4	13.23	63.34	8.0	33.36	8.0	25.1	2.72
C7	26 Dec 2024	5	13.16	66.25	7.8	33.37	8.0	25.1	2.28
C7	26 Dec 2024	6	13.07	69.45	7.7	33.37	8.0	25.1	1.86
C7	26 Dec 2024	7	13.01	71.28	7.6	33.37	8.0	25.1	1.64
C7	26 Dec 2024	8	13.03	73.85	7.5	33.37	8.0	25.1	1.58
C7	26 Dec 2024	9	12.95	73.68	7.3	33.38	8.0	25.1	1.42
C7	26 Dec 2024	10	12.86	73.50	7.2	33.39	8.0	25.2	1.28
C7	26 Dec 2024	11	12.81	73.41	7.0	33.39	8.0	25.2	1.27
C7	26 Dec 2024	12	12.63	73.50	6.7	33.40	8.0	25.2	1.15
C7	26 Dec 2024	13	12.48	74.08	6.4	33.40	7.9	25.3	1.08
C7	26 Dec 2024	14	12.30	75.65	6.1	33.41	7.9	25.3	0.86
C7	26 Dec 2024	15	12.31	75.56	5.9	33.40	7.9	25.3	0.83
C7	26 Dec 2024	16	12.01	75.12	5.6	33.44	7.9	25.4	0.79
C7	26 Dec 2024	17	11.91	69.80	5.3	33.44	7.9	25.4	0.78
C7	26 Dec 2024	18	11.96	46.44	5.2	33.43	7.8	25.4	0.78
C7	26 Dec 2024	19	11.88	29.67	5.1	33.45	7.8	25.4	0.75
C7	30 Dec 2024	1	13.13	73.22	7.8	33.37	8.0	25.1	3.26
C7	30 Dec 2024	2	13.13	73.57	7.8	33.37	8.0	25.1	3.56
C7	30 Dec 2024	3	13.10	73.85	7.8	33.37	8.0	25.1	3.35
C7	30 Dec 2024	4	13.05	74.41	7.7	33.38	8.0	25.1	2.65
C7	30 Dec 2024	5	12.94	75.89	7.5	33.38	8.0	25.2	1.87
C7	30 Dec 2024	6	12.88	77.59	7.2	33.38	8.0	25.2	1.48
C7	30 Dec 2024	7	12.73	80.32	6.9	33.38	7.9	25.2	1.22
C7	30 Dec 2024	8	12.54	84.57	6.6	33.39	7.9	25.2	0.94
C7	30 Dec 2024	9	12.39	87.79	6.2	33.39	7.9	25.3	0.84
C7	30 Dec 2024	10	12.05	90.04	5.8	33.42	7.9	25.4	0.65
C7	30 Dec 2024	11	11.98	91.40	5.6	33.42	7.8	25.4	0.59
C7	30 Dec 2024	12	11.97	91.60	5.5	33.42	7.8	25.4	0.62
C7	30 Dec 2024	13	11.96	91.00	5.4	33.43	7.8	25.4	0.52
C7	30 Dec 2024	14	11.79	89.13	5.1	33.46	7.8	25.4	0.46
C7	30 Dec 2024	15	11.65	86.27	4.9	33.48	7.8	25.5	0.48
C7	30 Dec 2024	16	11.64	78.81	4.7	33.48	7.8	25.5	0.60
C7	30 Dec 2024	17	11.64	77.36	4.6	33.48	7.8	25.5	0.59
C7	30 Dec 2024	18	11.64	75.47	4.6	33.48	7.8	25.5	0.59
C7	30 Dec 2024	19	11.64	74.14	4.6	33.48	7.8	25.5	0.57
C8	02 Dec 2024	1	13.64	95.45	6.8	33.34	8.0	25.0	0.64
C8	02 Dec 2024	2	13.64	95.21	6.8	33.34	8.0	25.0	0.70
C8	02 Dec 2024	3	13.63	95.15	6.8	33.34	8.0	25.0	0.69
C8	02 Dec 2024	4	13.64	95.23	6.8	33.34	8.0	25.0	0.68
C8	02 Dec 2024	5	13.42	95.39	6.6	33.36	8.0	25.0	0.71
C8	02 Dec 2024	6	13.14	95.54	6.3	33.36	8.0	25.1	0.62
C8	02 Dec 2024	7	12.87	96.06	6.1	33.37	8.0	25.2	0.53
C8	02 Dec 2024	8	12.65	96.82	6.0	33.36	8.0	25.2	0.54
C8	02 Dec 2024	9	12.58	96.84	5.9	33.36	8.0	25.2	0.55
C8	02 Dec 2024	10	12.47	96.74	5.8	33.37	8.0	25.2	0.55
C8	02 Dec 2024	11	12.27	96.77	5.7	33.37	8.0	25.3	0.51
C8	02 Dec 2024	12	12.15	96.86	5.7	33.37	7.9	25.3	0.51
C8	02 Dec 2024	13	12.03	96.79	5.6	33.38	7.9	25.3	0.48
C8	02 Dec 2024	14	11.99	96.63	5.6	33.37	7.9	25.3	0.46
C8	02 Dec 2024	15	11.94	96.33	5.5	33.38	7.9	25.3	0.42
C8	02 Dec 2024	16	11.90	95.50	5.4	33.39	7.9	25.4	0.39
C8	02 Dec 2024	17	11.86	94.59	5.4	33.39	7.9	25.4	0.38
C8	02 Dec 2024	18	11.81	93.86	5.3	33.39	7.9	25.4	0.39
C8	02 Dec 2024	19	11.80	92.13	5.3	33.39	7.9	25.4	0.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	02 Dec 2024	20	11.80	91.00	5.3	33.39	7.9	25.4	0.41
C8	11 Dec 2024	1	12.98	87.10	5.8	33.33	8.0	25.1	2.49
C8	11 Dec 2024	2	12.98	87.41	6.0	33.35	8.0	25.1	2.29
C8	11 Dec 2024	3	12.98	87.48	6.4	33.36	8.0	25.1	2.35
C8	11 Dec 2024	4	12.94	87.55	6.8	33.39	8.0	25.2	2.45
C8	11 Dec 2024	5	12.88	87.74	6.9	33.40	8.0	25.2	2.75
C8	11 Dec 2024	6	12.85	88.01	6.8	33.41	8.0	25.2	2.30
C8	11 Dec 2024	7	12.78	88.54	6.7	33.42	8.0	25.2	2.20
C8	11 Dec 2024	8	12.70	89.02	6.6	33.40	8.0	25.2	2.49
C8	11 Dec 2024	9	12.60	90.96	6.5	33.37	8.0	25.2	2.39
C8	11 Dec 2024	10	12.61	92.09	6.4	33.37	8.0	25.2	2.62
C8	11 Dec 2024	11	12.56	92.51	6.3	33.37	8.0	25.2	2.47
C8	11 Dec 2024	12	12.42	92.52	6.1	33.38	8.0	25.2	2.05
C8	11 Dec 2024	13	12.20	93.46	5.8	33.40	7.9	25.3	1.49
C8	11 Dec 2024	14	12.02	94.09	5.6	33.41	7.9	25.3	0.94
C8	11 Dec 2024	15	11.95	93.48	5.4	33.41	7.9	25.4	0.88
C8	11 Dec 2024	16	11.82	92.85	5.3	33.41	7.9	25.4	0.64
C8	11 Dec 2024	17	11.66	93.12	5.3	33.42	7.9	25.4	0.56
C8	11 Dec 2024	18	11.57	93.77	5.2	33.42	7.9	25.4	0.61
C8	11 Dec 2024	19	11.56	93.57	5.2	33.42	7.9	25.4	0.62
C8	17 Dec 2024	1	13.65	91.12	8.4	33.32	8.1	25.0	2.43
C8	17 Dec 2024	2	13.65	91.45	8.3	33.32	8.1	25.0	2.39
C8	17 Dec 2024	3	13.60	91.38	8.3	33.33	8.1	25.0	2.43
C8	17 Dec 2024	4	13.57	91.30	8.2	33.32	8.1	25.0	2.65
C8	17 Dec 2024	5	13.45	91.76	8.1	33.32	8.1	25.0	2.49
C8	17 Dec 2024	6	13.35	93.10	7.9	33.32	8.1	25.0	2.18
C8	17 Dec 2024	7	13.24	93.43	7.8	33.31	8.1	25.0	2.34
C8	17 Dec 2024	8	13.09	93.89	7.6	33.30	8.1	25.1	2.11
C8	17 Dec 2024	9	12.98	94.19	7.5	33.30	8.1	25.1	2.09
C8	17 Dec 2024	10	13.03	94.10	7.5	33.29	8.1	25.1	2.64
C8	17 Dec 2024	11	13.02	94.55	7.4	33.30	8.1	25.1	2.27
C8	17 Dec 2024	12	12.82	94.78	7.3	33.31	8.1	25.1	2.59
C8	17 Dec 2024	13	12.68	95.10	7.0	33.31	8.0	25.1	2.98
C8	17 Dec 2024	14	12.45	95.15	6.7	33.31	8.0	25.2	2.06
C8	17 Dec 2024	15	12.41	95.50	6.6	33.32	8.0	25.2	2.27
C8	17 Dec 2024	16	12.45	95.44	6.5	33.31	8.0	25.2	1.85
C8	17 Dec 2024	17	12.25	95.36	6.3	33.35	8.0	25.3	1.50
C8	17 Dec 2024	18	12.23	94.71	6.1	33.36	8.0	25.3	1.58
C8	17 Dec 2024	19	12.14	93.83	5.9	33.38	7.9	25.3	1.37
C8	17 Dec 2024	20	12.02	92.99	5.8	33.40	7.9	25.3	1.19
C8	26 Dec 2024	1	13.24	75.62	8.2	33.35	8.1	25.1	2.94
C8	26 Dec 2024	2	13.24	75.52	8.2	33.35	8.1	25.1	3.14
C8	26 Dec 2024	3	13.24	75.68	8.2	33.35	8.1	25.1	3.21
C8	26 Dec 2024	4	13.24	75.29	8.2	33.35	8.1	25.1	3.36
C8	26 Dec 2024	5	13.24	75.54	8.1	33.35	8.1	25.1	3.36
C8	26 Dec 2024	6	13.23	75.18	8.1	33.35	8.1	25.1	3.24
C8	26 Dec 2024	7	13.14	74.95	7.8	33.36	8.1	25.1	2.63
C8	26 Dec 2024	8	13.14	74.43	7.6	33.36	8.0	25.1	2.15
C8	26 Dec 2024	9	13.02	73.44	7.4	33.37	8.0	25.1	1.91
C8	26 Dec 2024	10	12.96	72.92	7.2	33.37	8.0	25.1	1.56
C8	26 Dec 2024	11	12.88	72.37	7.1	33.38	8.0	25.2	1.47
C8	26 Dec 2024	12	12.82	68.14	6.9	33.38	8.0	25.2	1.30
C8	26 Dec 2024	13	12.57	64.36	6.5	33.40	8.0	25.2	1.14
C8	26 Dec 2024	14	12.47	64.44	6.0	33.40	7.9	25.3	0.98
C8	26 Dec 2024	15	12.15	60.09	5.7	33.42	7.9	25.3	0.91
C8	26 Dec 2024	16	11.93	38.46	5.2	33.44	7.9	25.4	0.87
C8	26 Dec 2024	17	11.85	34.87	4.9	33.45	7.8	25.4	1.04
C8	26 Dec 2024	18	11.78	20.39	4.8	33.45	7.8	25.4	1.07

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	26 Dec 2024	19	11.77	7.46	4.7	33.45	7.8	25.4	1.18
C8	30 Dec 2024	1	13.06	68.27	7.5	33.37	8.0	25.1	4.40
C8	30 Dec 2024	2	12.99	69.17	7.5	33.38	8.0	25.1	4.32
C8	30 Dec 2024	3	12.83	71.52	7.5	33.39	7.9	25.2	3.08
C8	30 Dec 2024	4	12.65	70.44	7.3	33.40	7.9	25.2	2.03
C8	30 Dec 2024	5	12.62	65.54	7.1	33.40	7.9	25.2	1.33
C8	30 Dec 2024	6	12.52	66.95	6.9	33.41	7.9	25.3	1.04
C8	30 Dec 2024	7	12.46	67.26	6.5	33.41	7.9	25.3	0.91
C8	30 Dec 2024	8	12.00	62.52	6.0	33.48	7.9	25.4	0.81
C8	30 Dec 2024	9	11.76	62.21	5.4	33.46	7.8	25.4	0.70
C8	30 Dec 2024	10	11.71	74.49	5.0	33.46	7.8	25.4	0.62
C8	30 Dec 2024	11	11.83	72.85	5.0	33.46	7.8	25.4	0.55
C8	30 Dec 2024	12	11.59	76.89	4.8	33.49	7.8	25.5	0.55
C8	30 Dec 2024	13	11.58	79.53	4.7	33.49	7.8	25.5	0.48
C8	30 Dec 2024	14	11.57	78.35	4.6	33.49	7.8	25.5	0.42
C8	30 Dec 2024	15	11.57	76.63	4.5	33.50	7.8	25.5	0.45
C8	30 Dec 2024	16	11.57	74.77	4.5	33.50	7.8	25.5	0.47
C8	30 Dec 2024	17	11.55	72.08	4.4	33.51	7.8	25.5	0.48
C8	30 Dec 2024	18	11.55	66.24	4.4	33.51	7.8	25.5	0.51
C8	30 Dec 2024	19	11.55	59.31	4.4	33.51	7.8	25.5	0.59
C8	30 Dec 2024	20	11.55	60.18	4.4	33.51	7.8	25.5	0.61

NA = not available

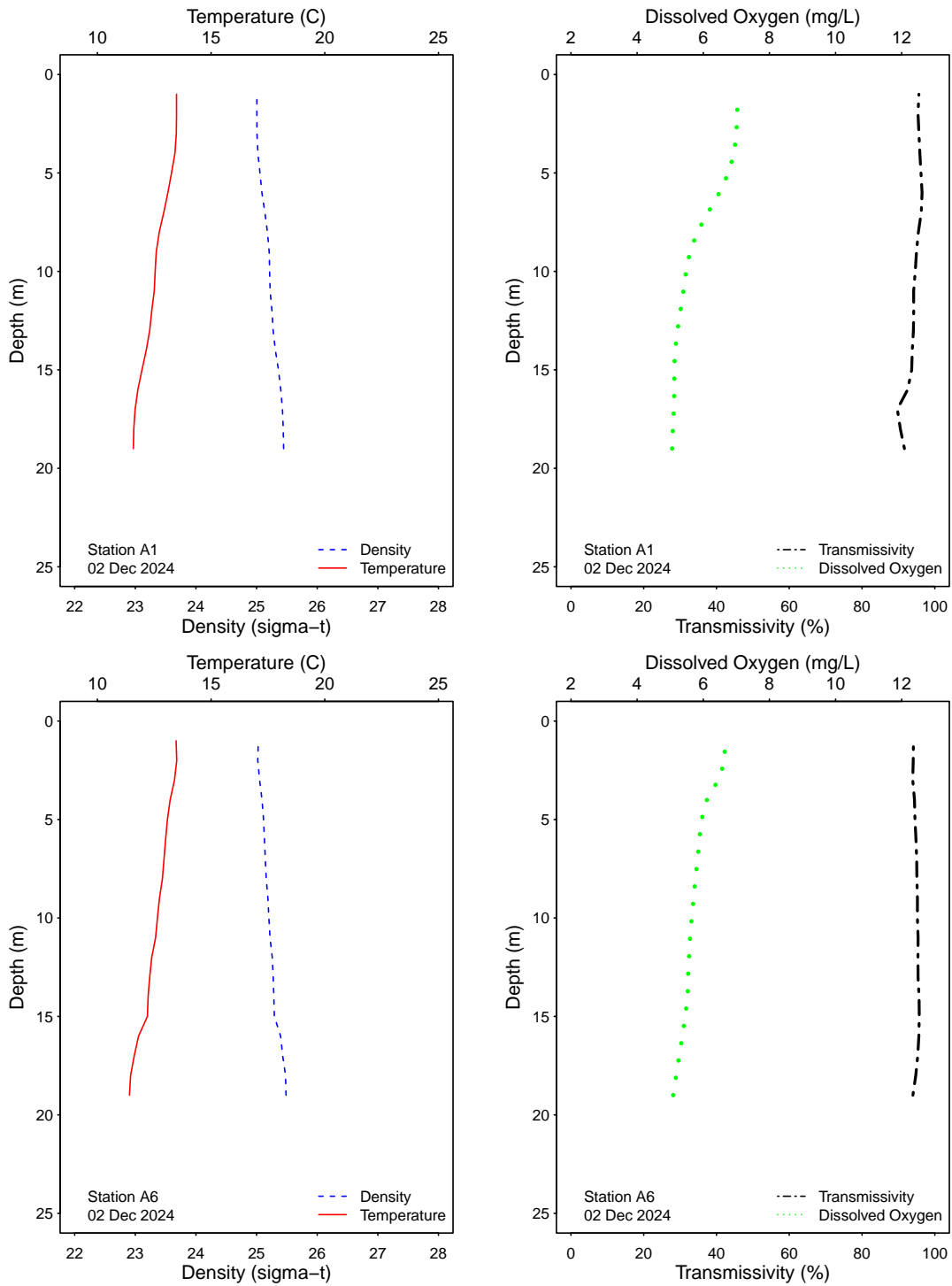


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

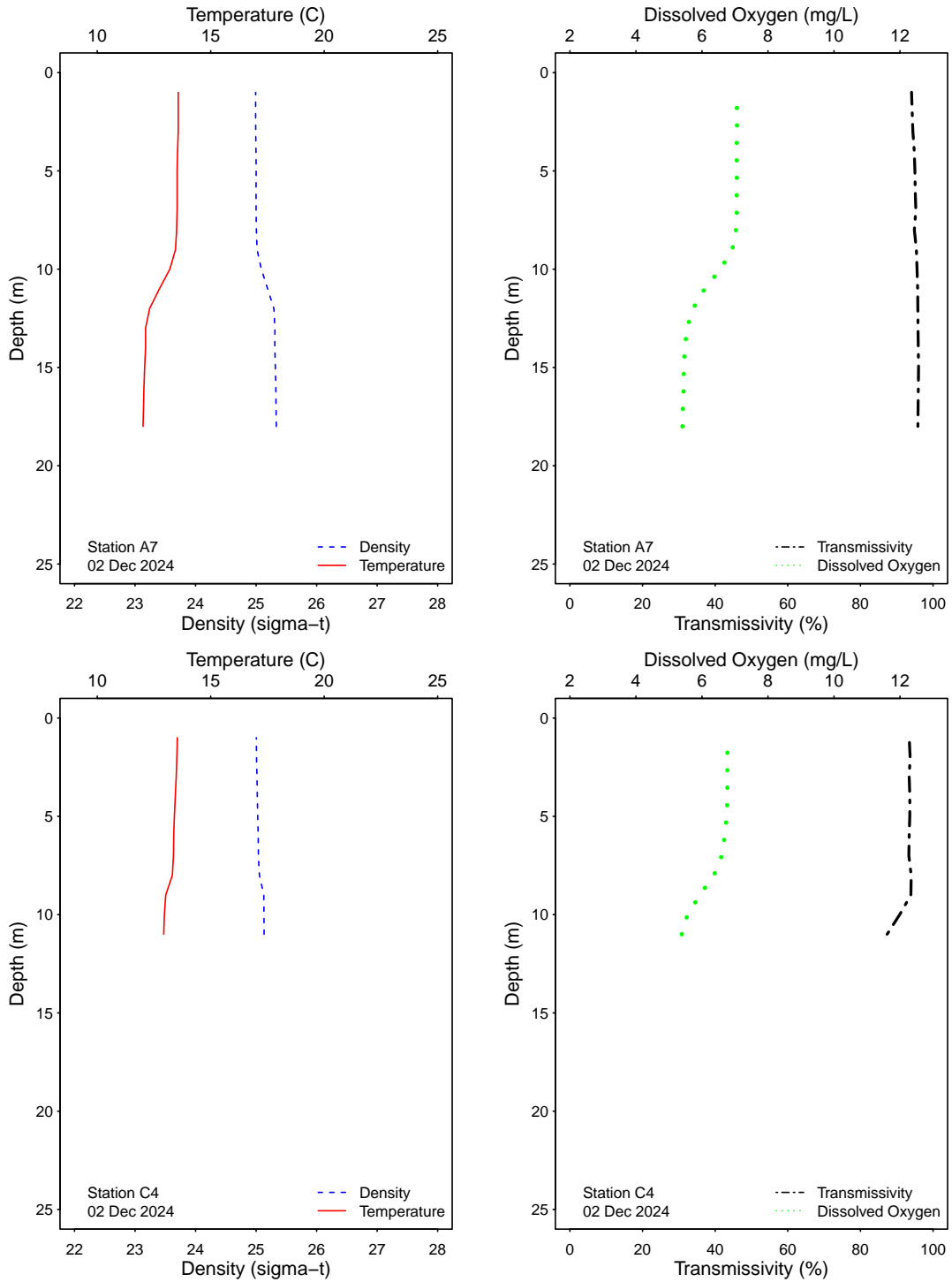


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

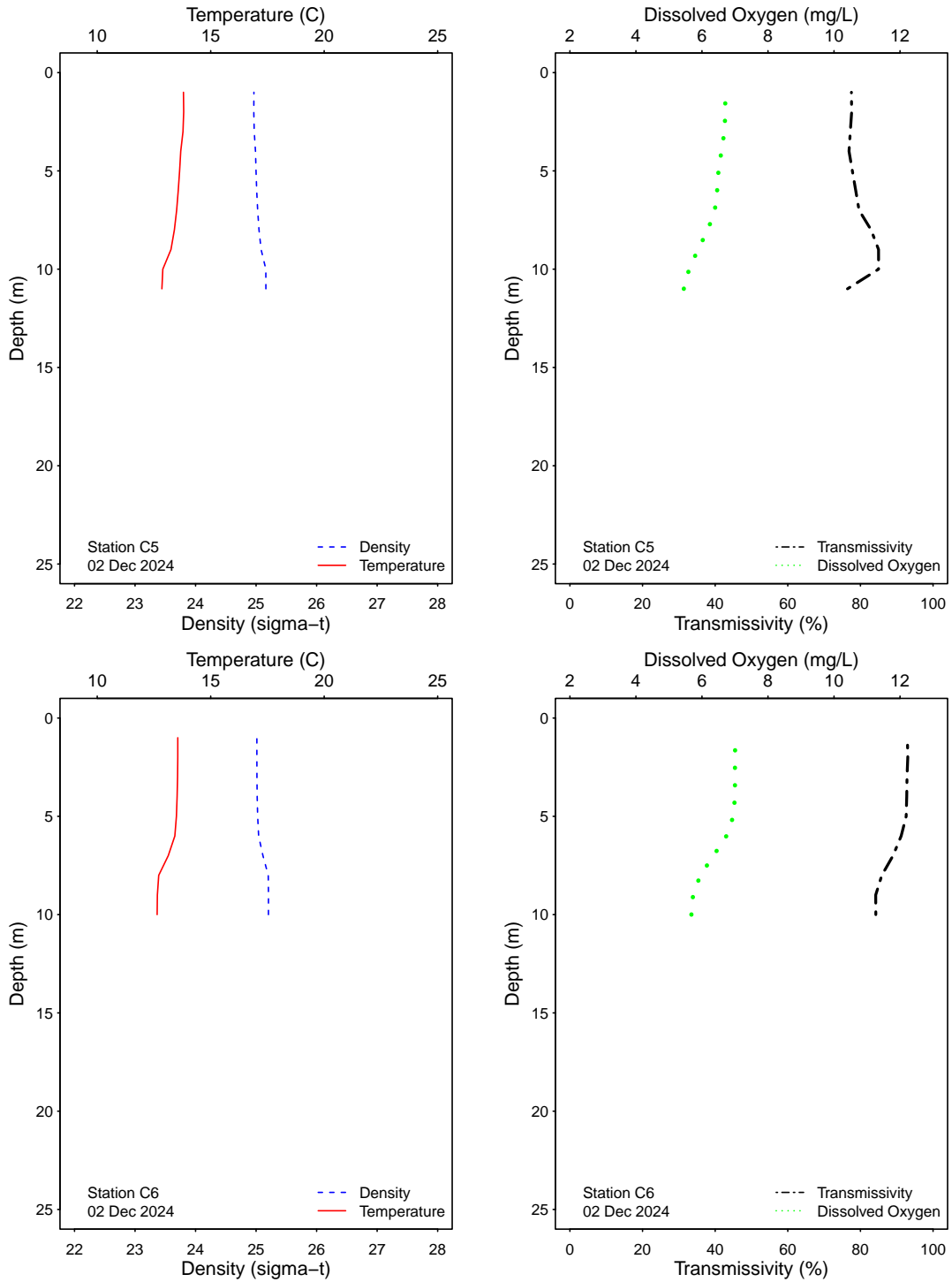


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

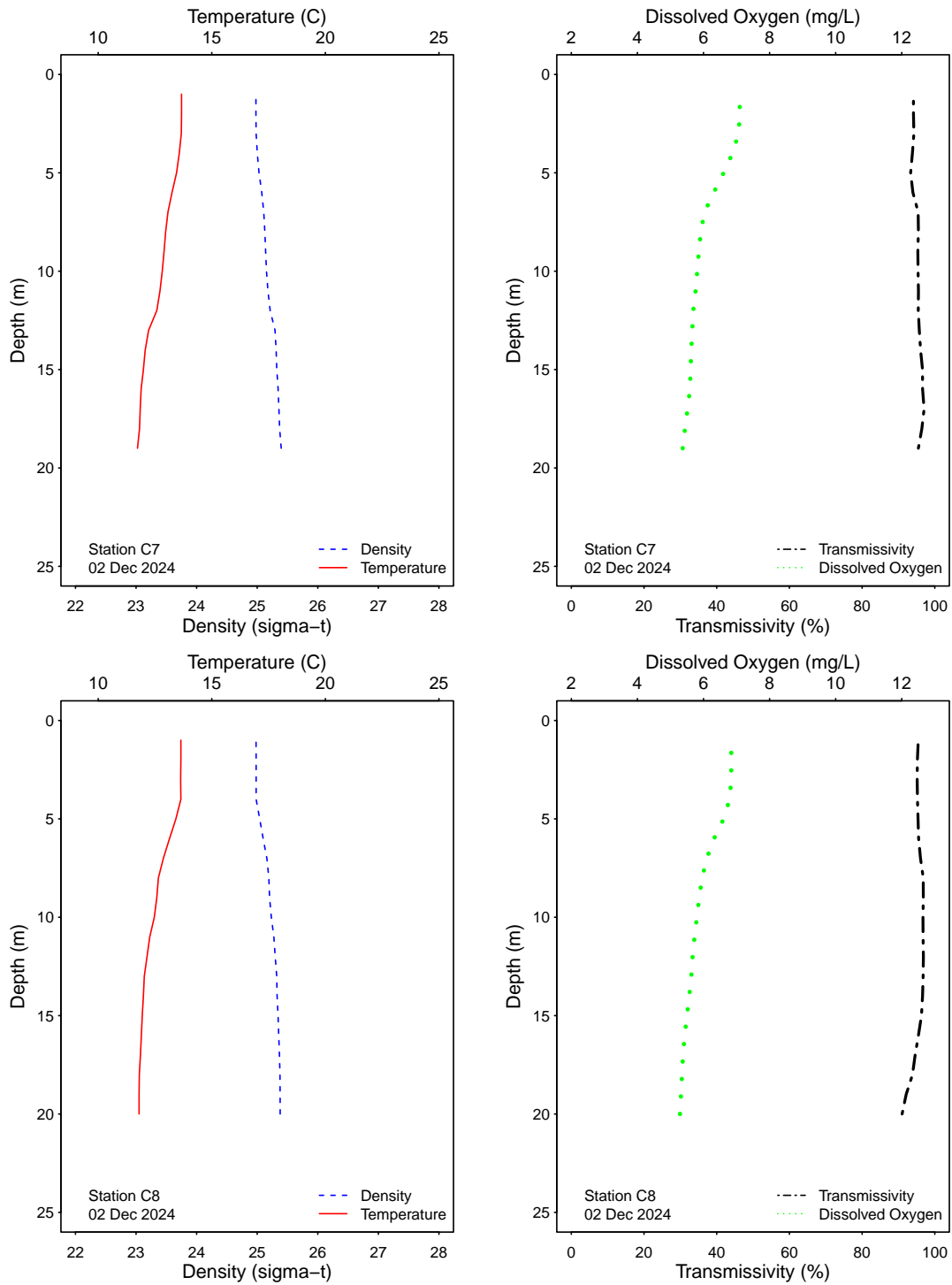


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

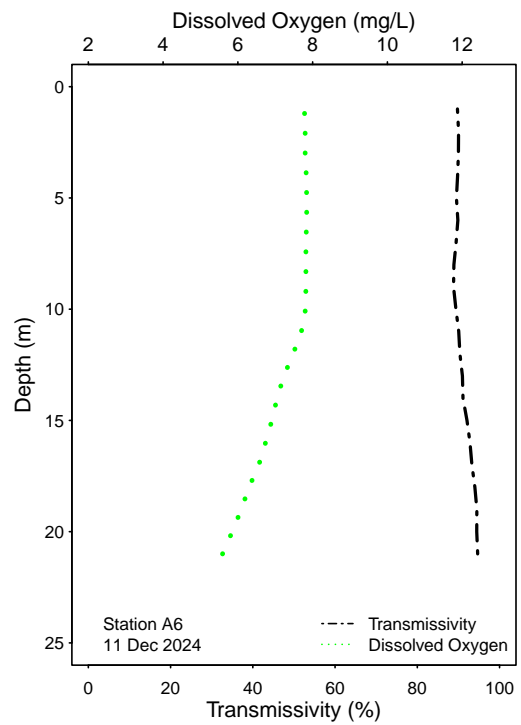
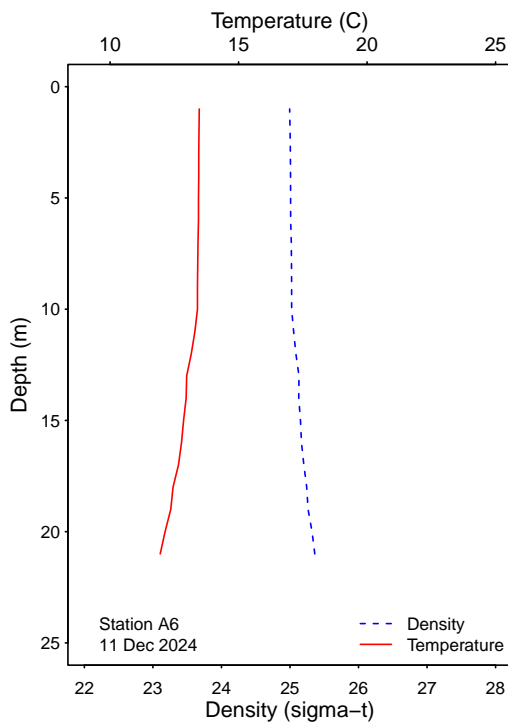
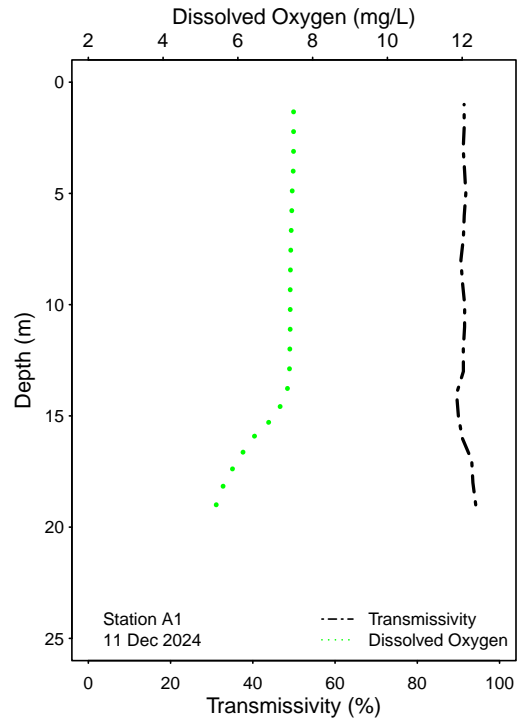
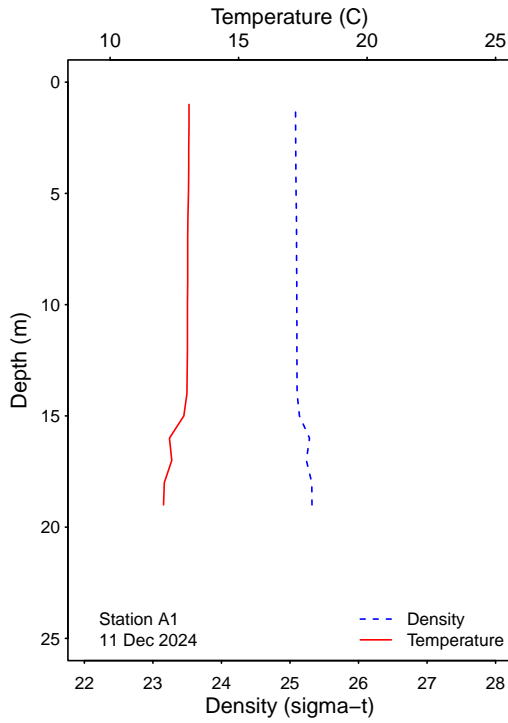


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

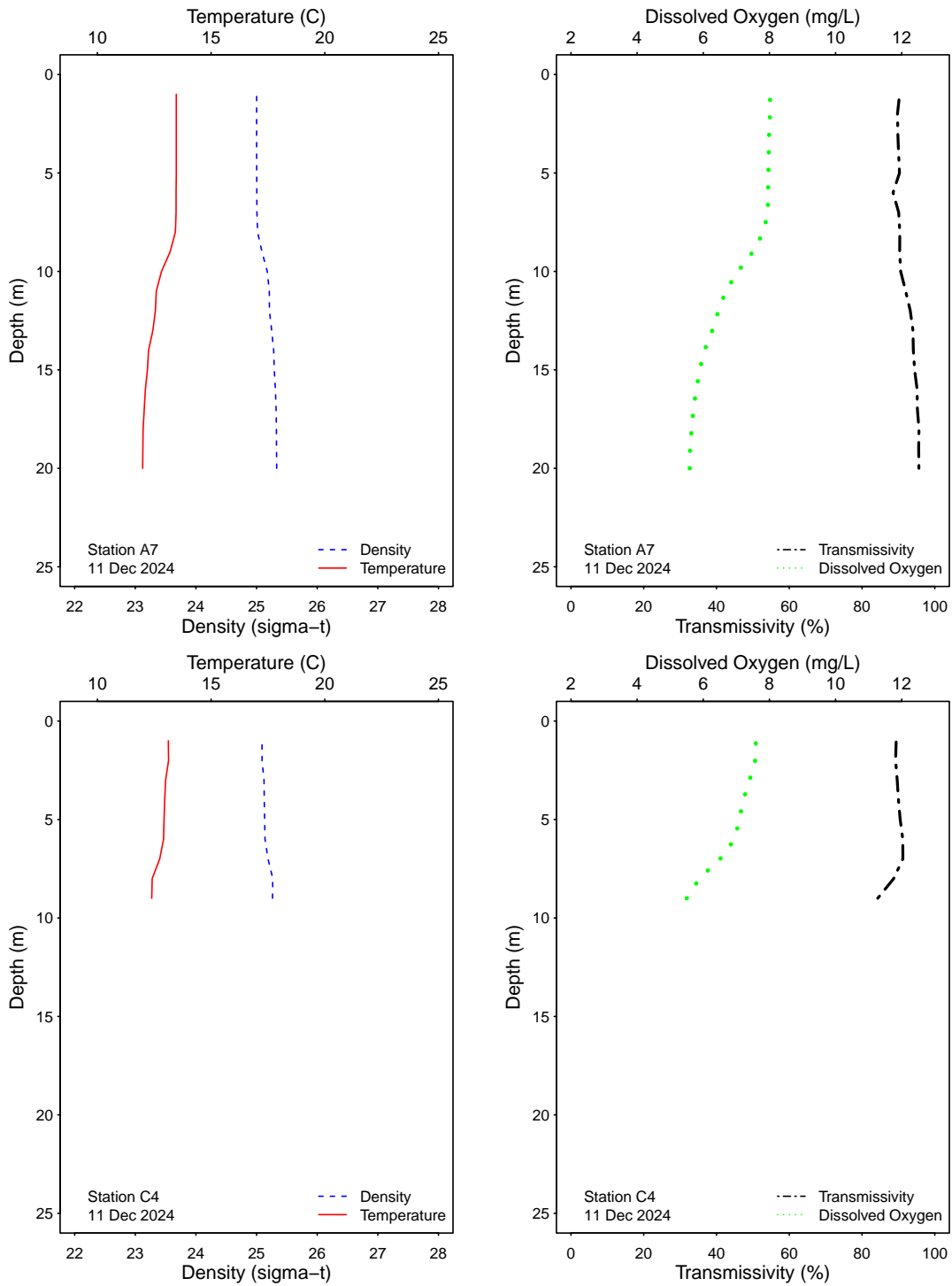


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

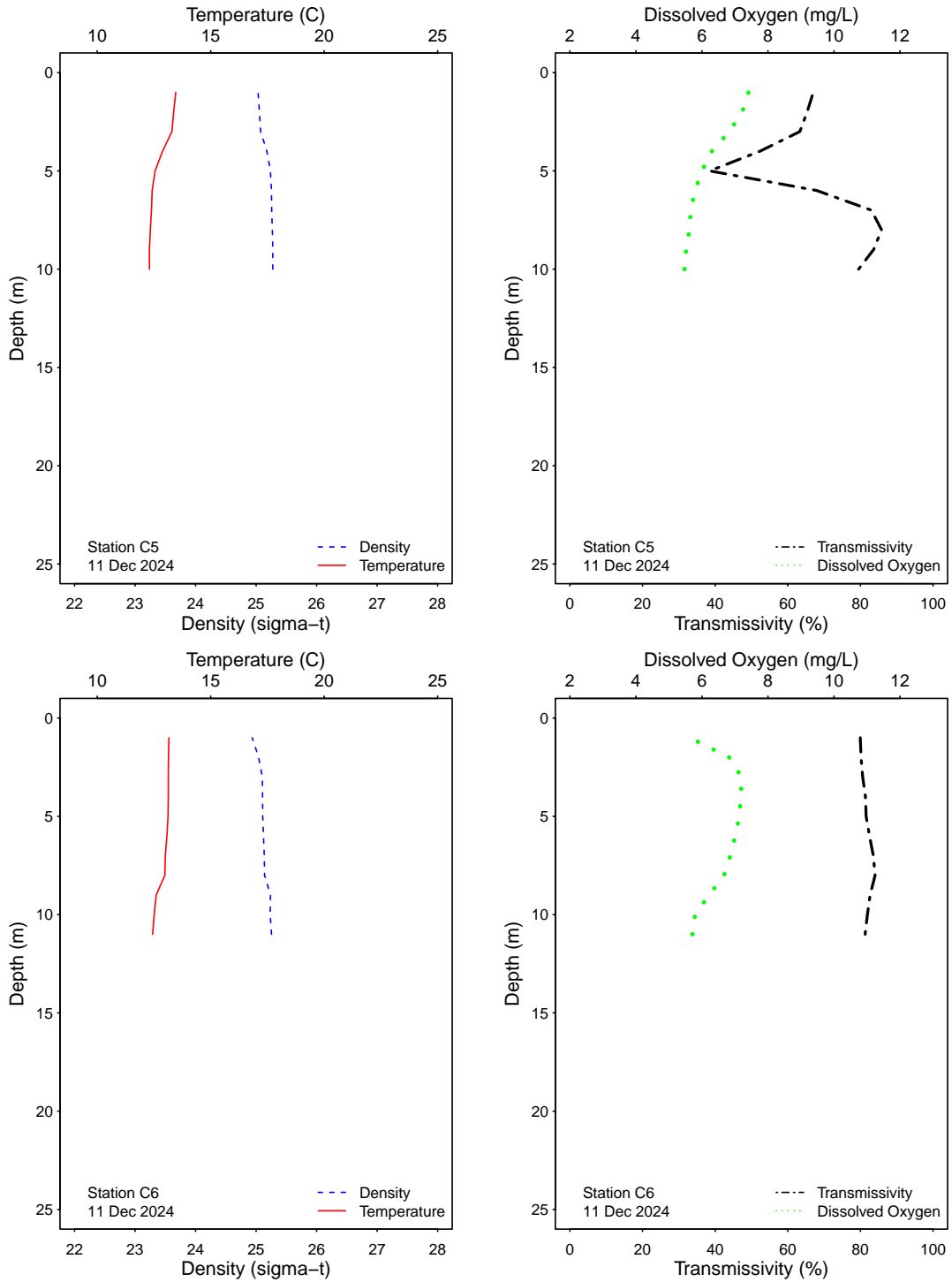


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

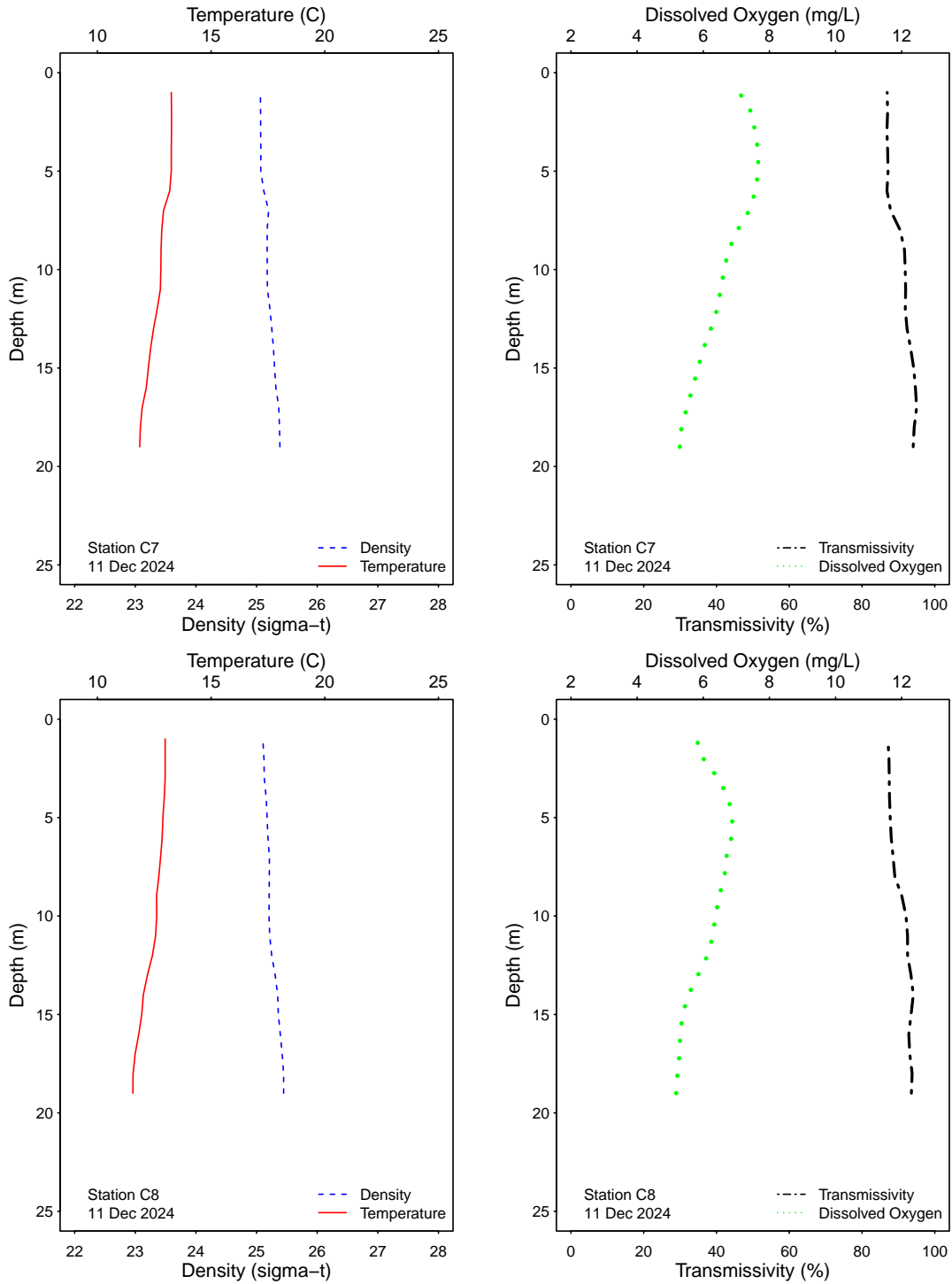


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

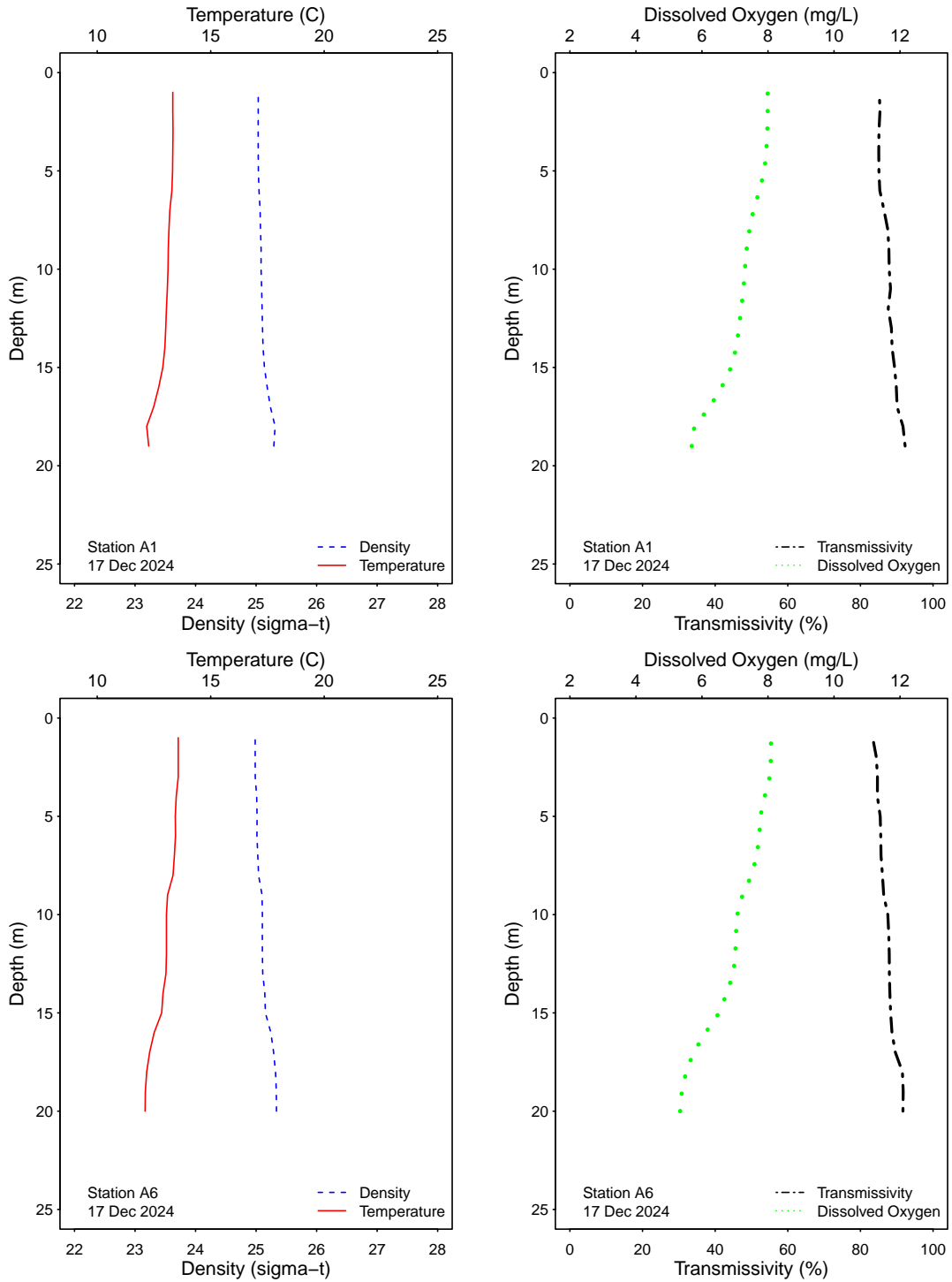


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

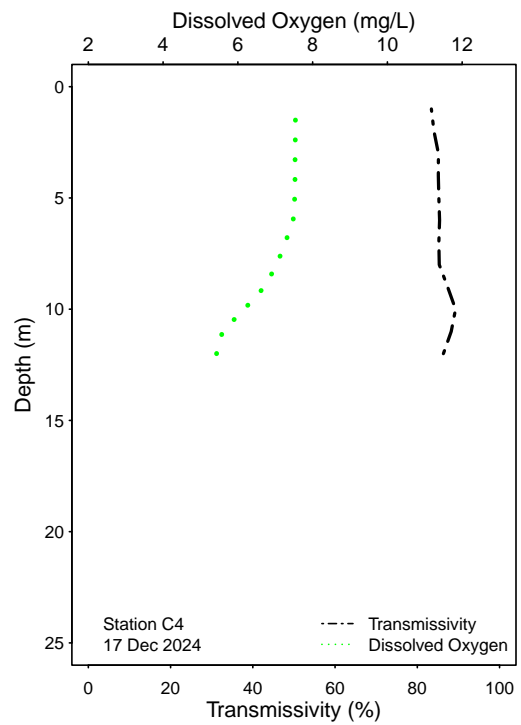
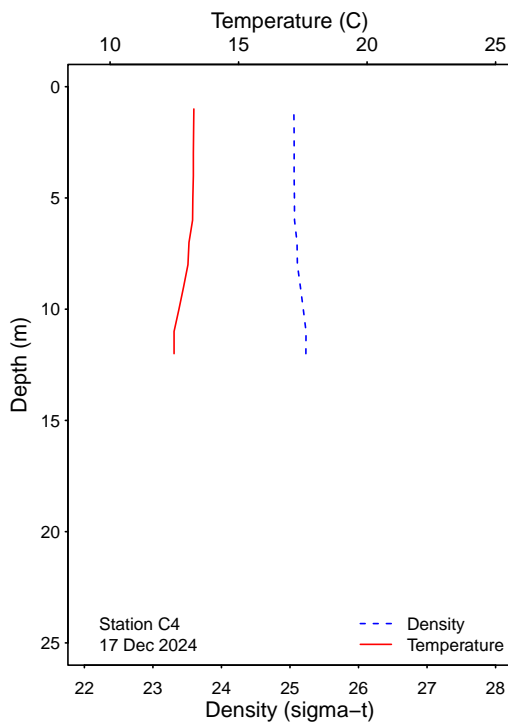
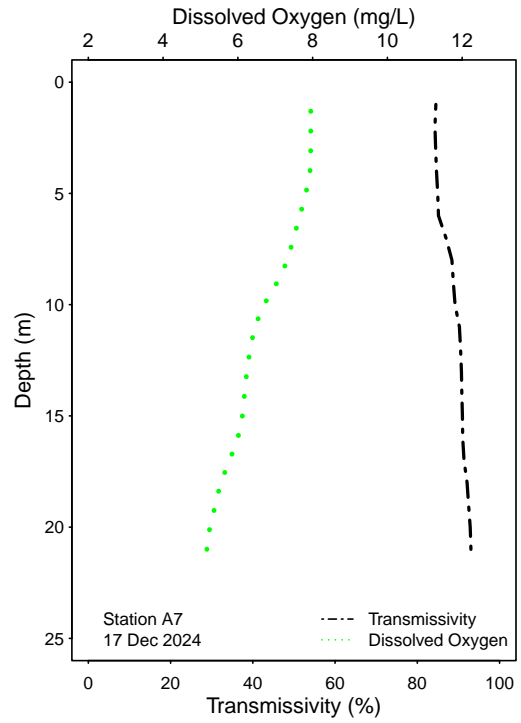
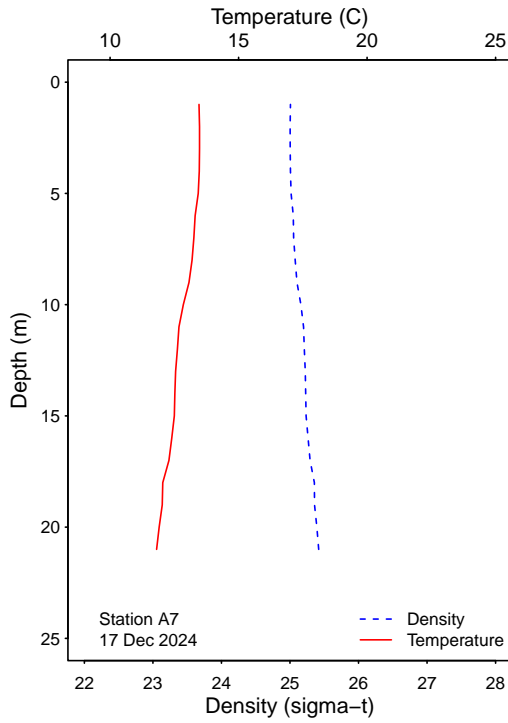


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

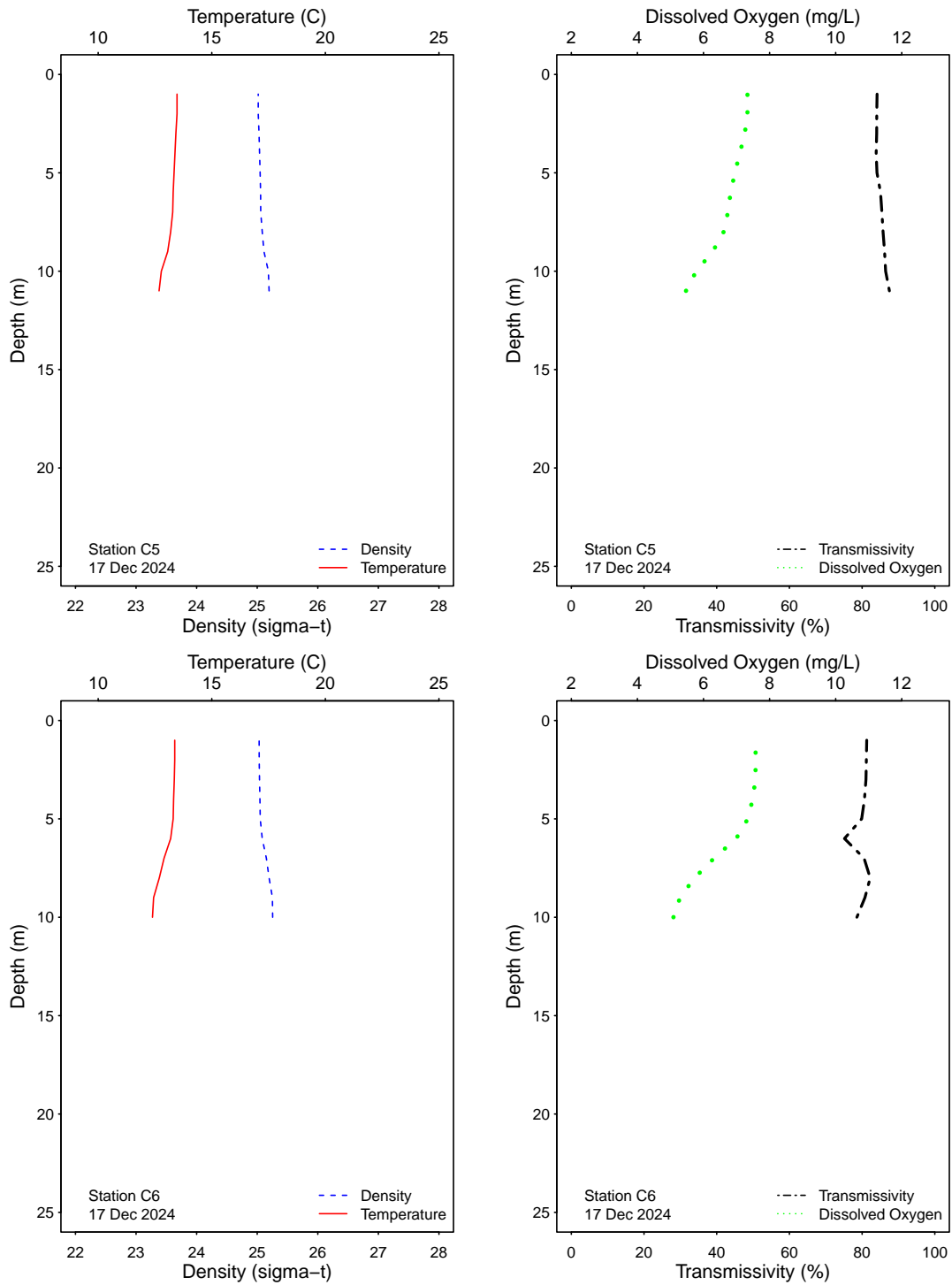


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

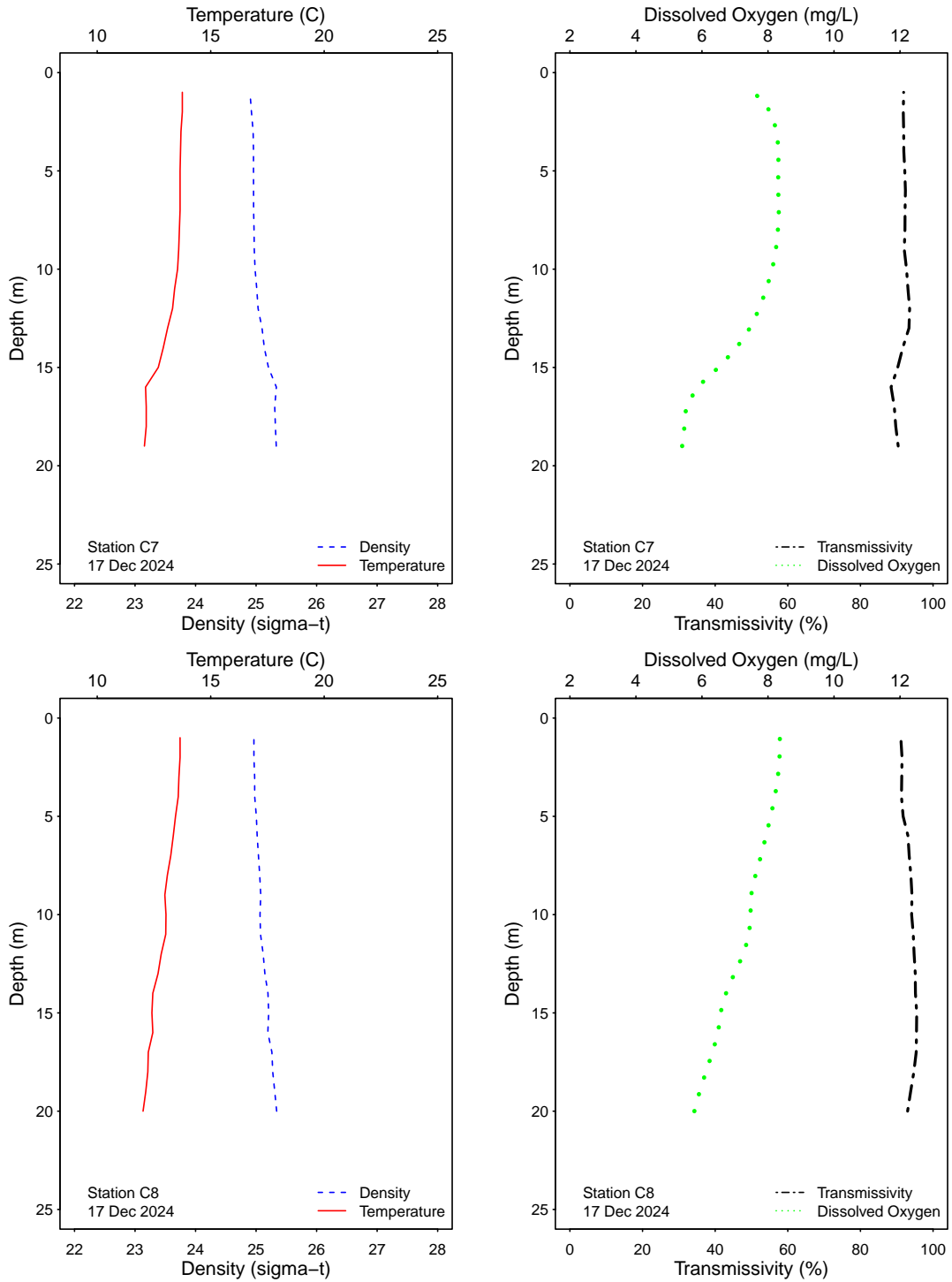


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

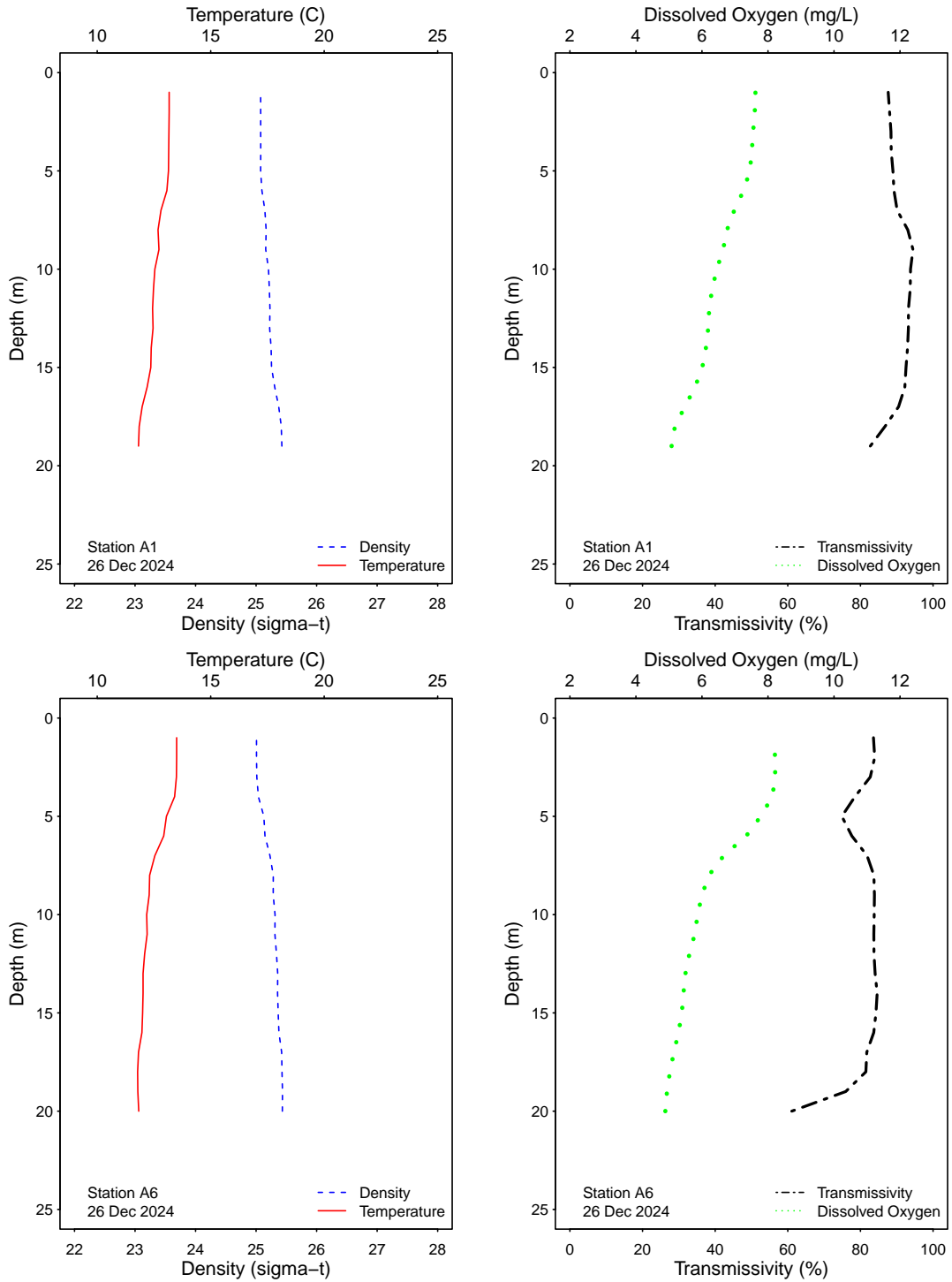


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

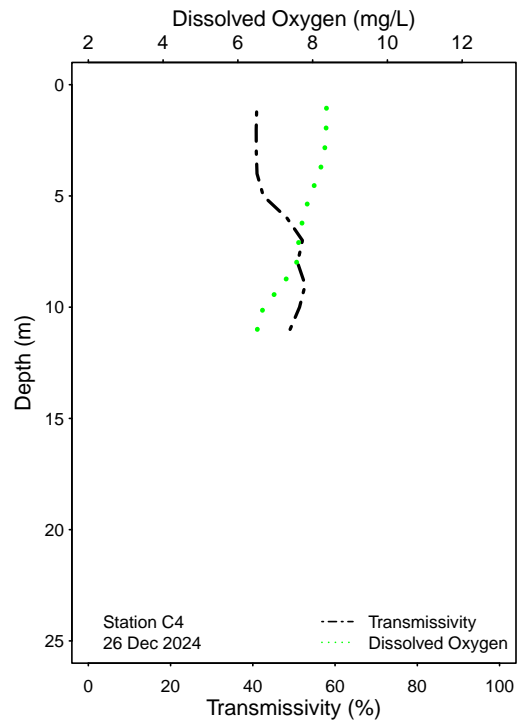
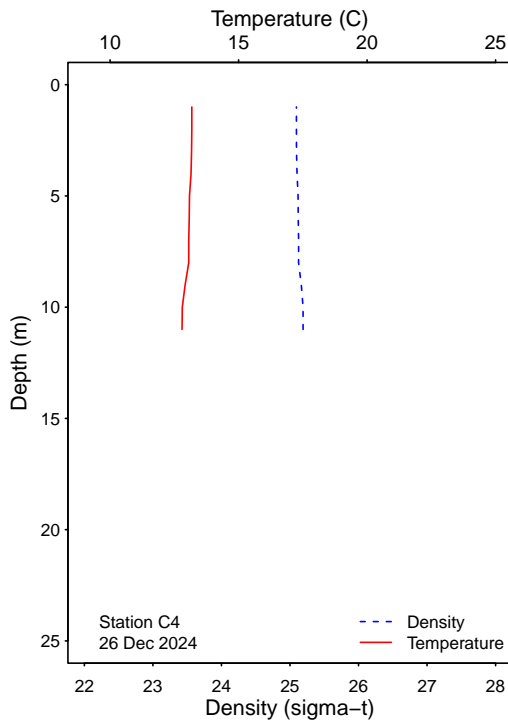
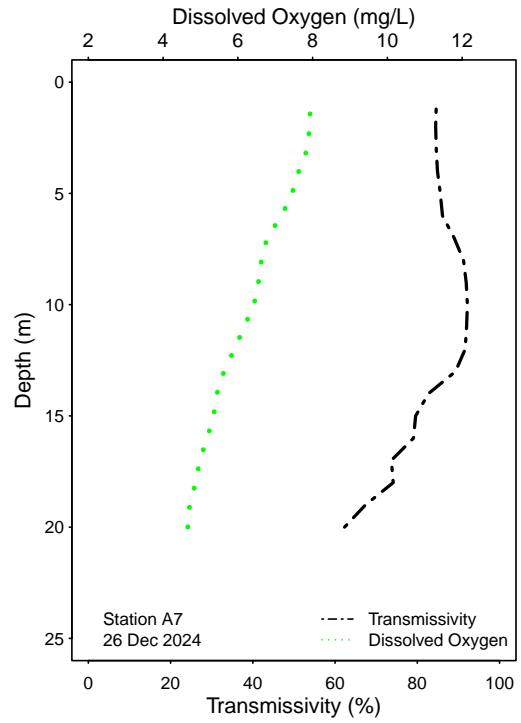
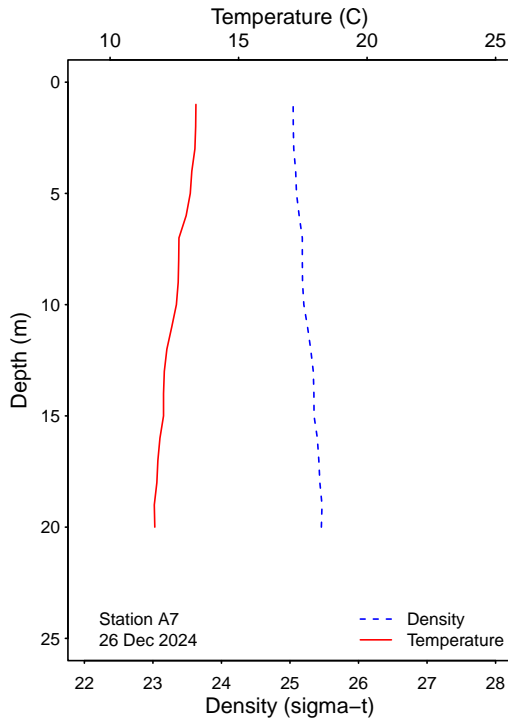


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

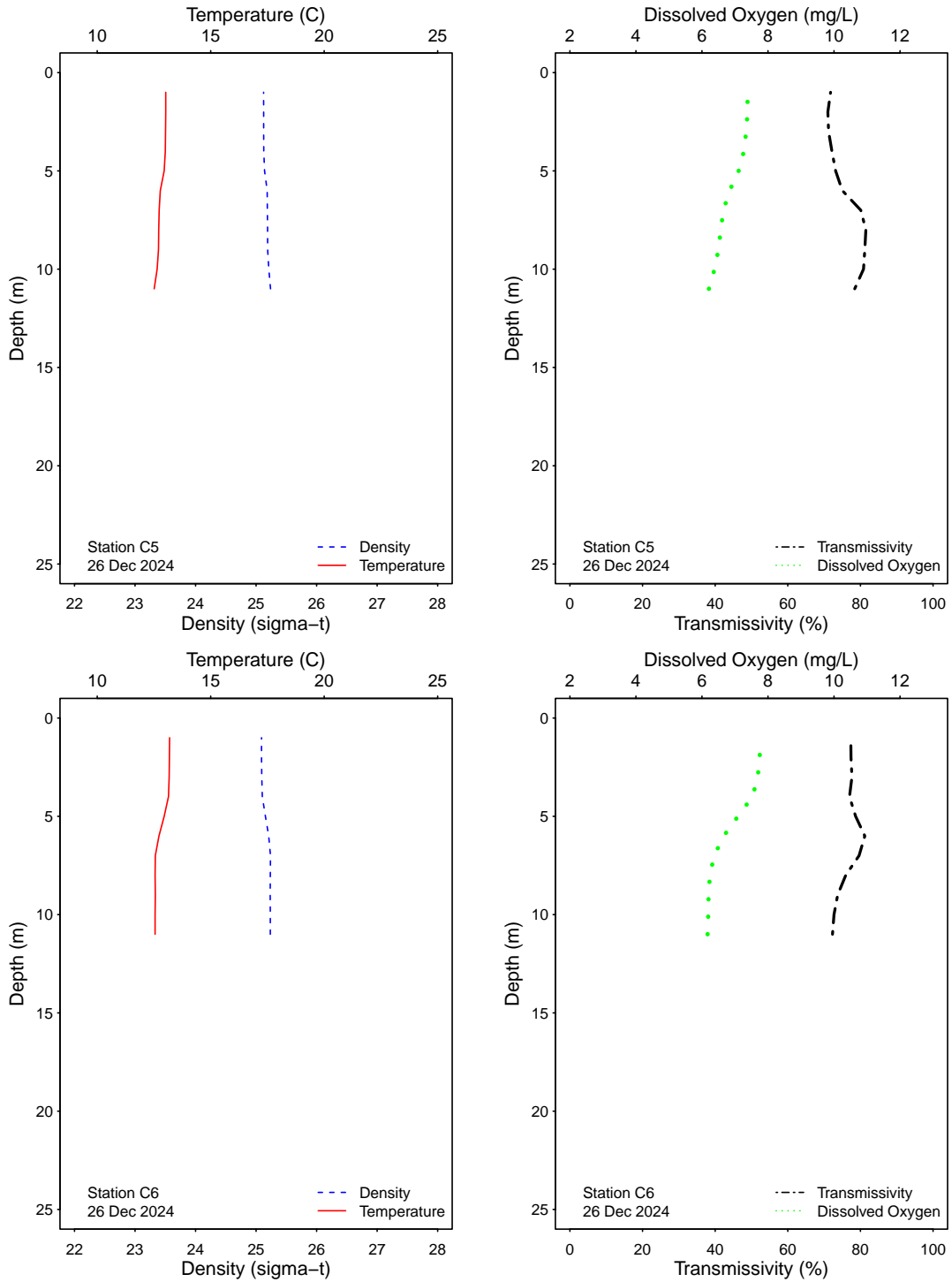


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

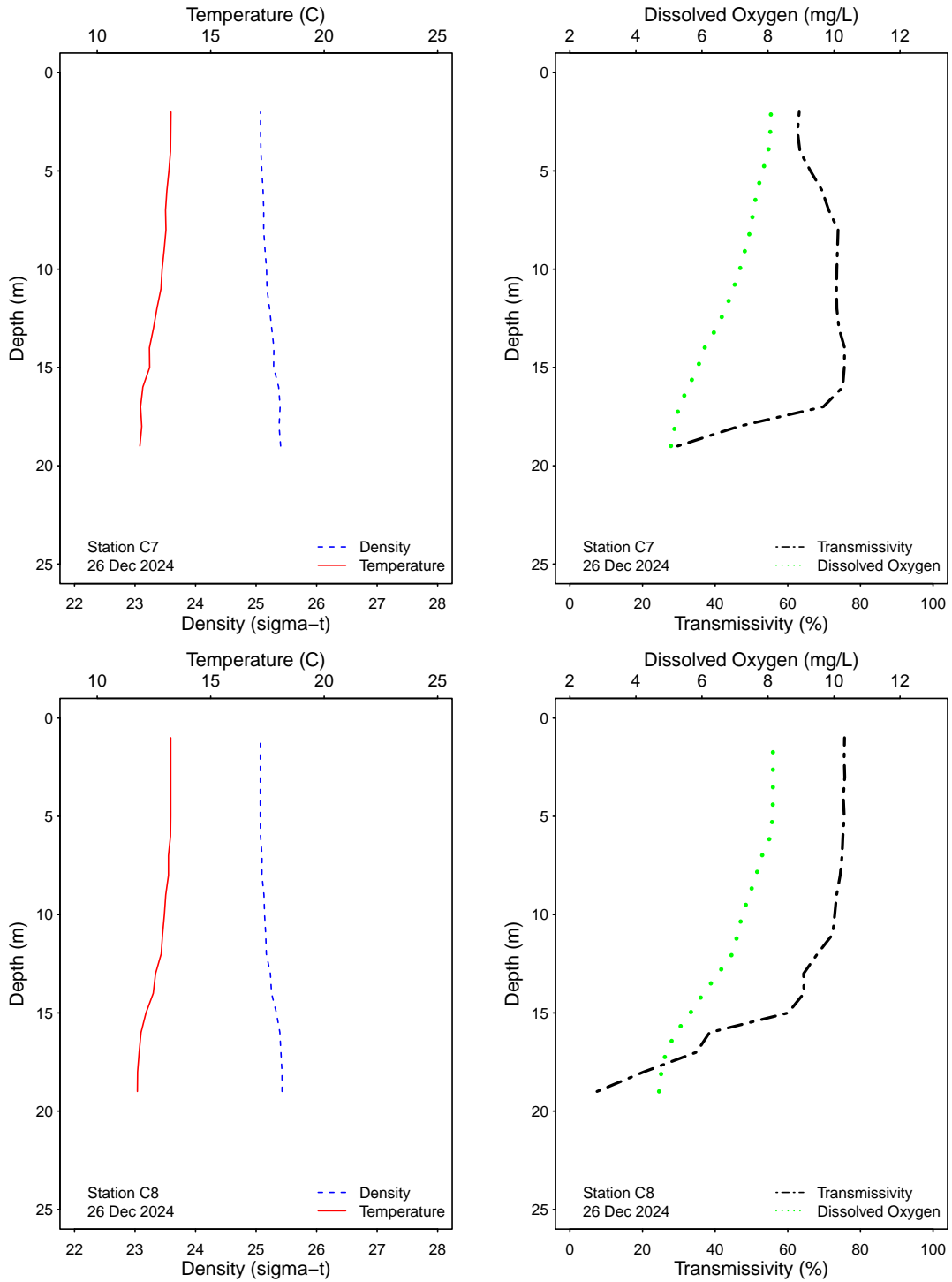


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

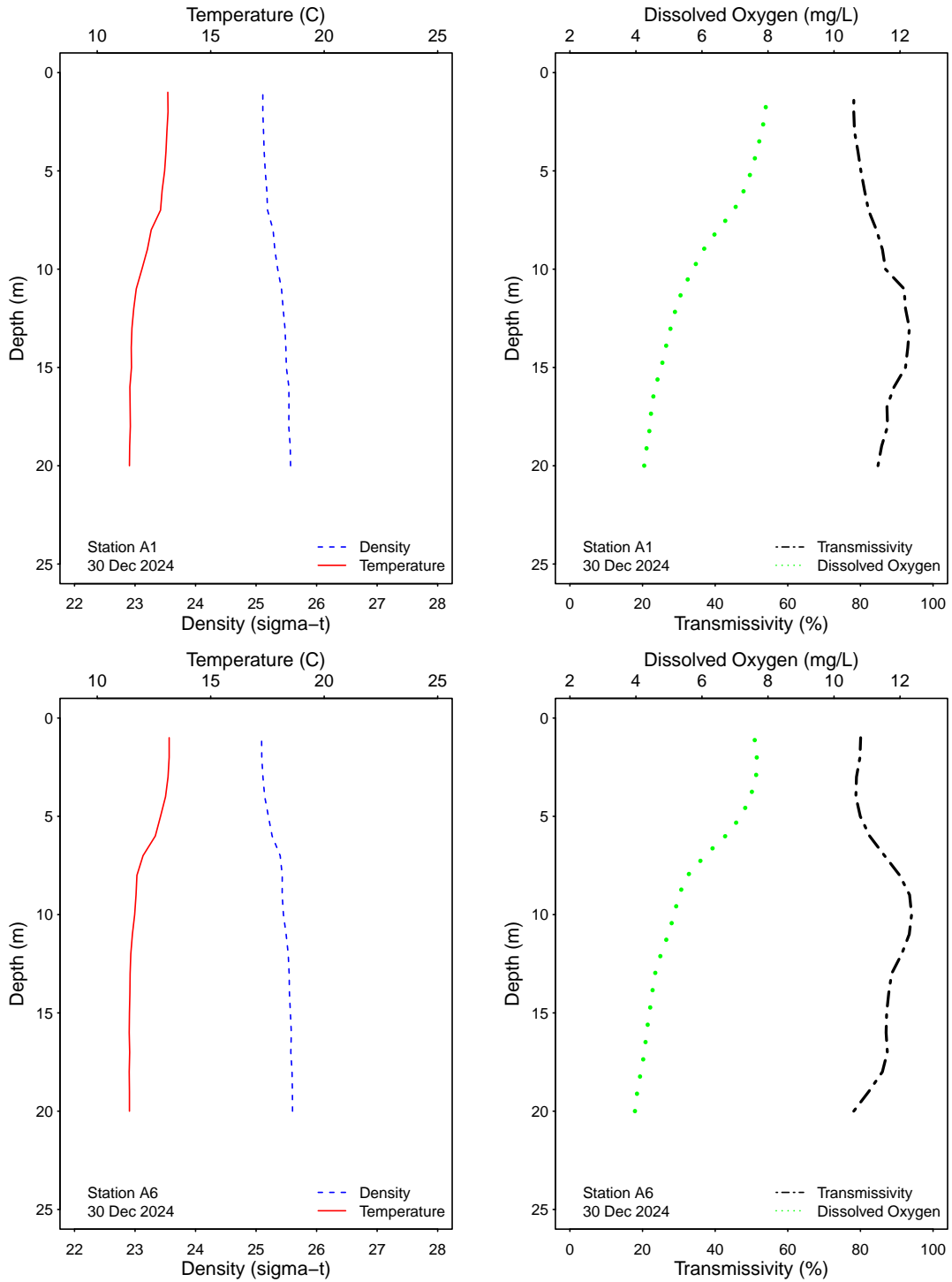


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

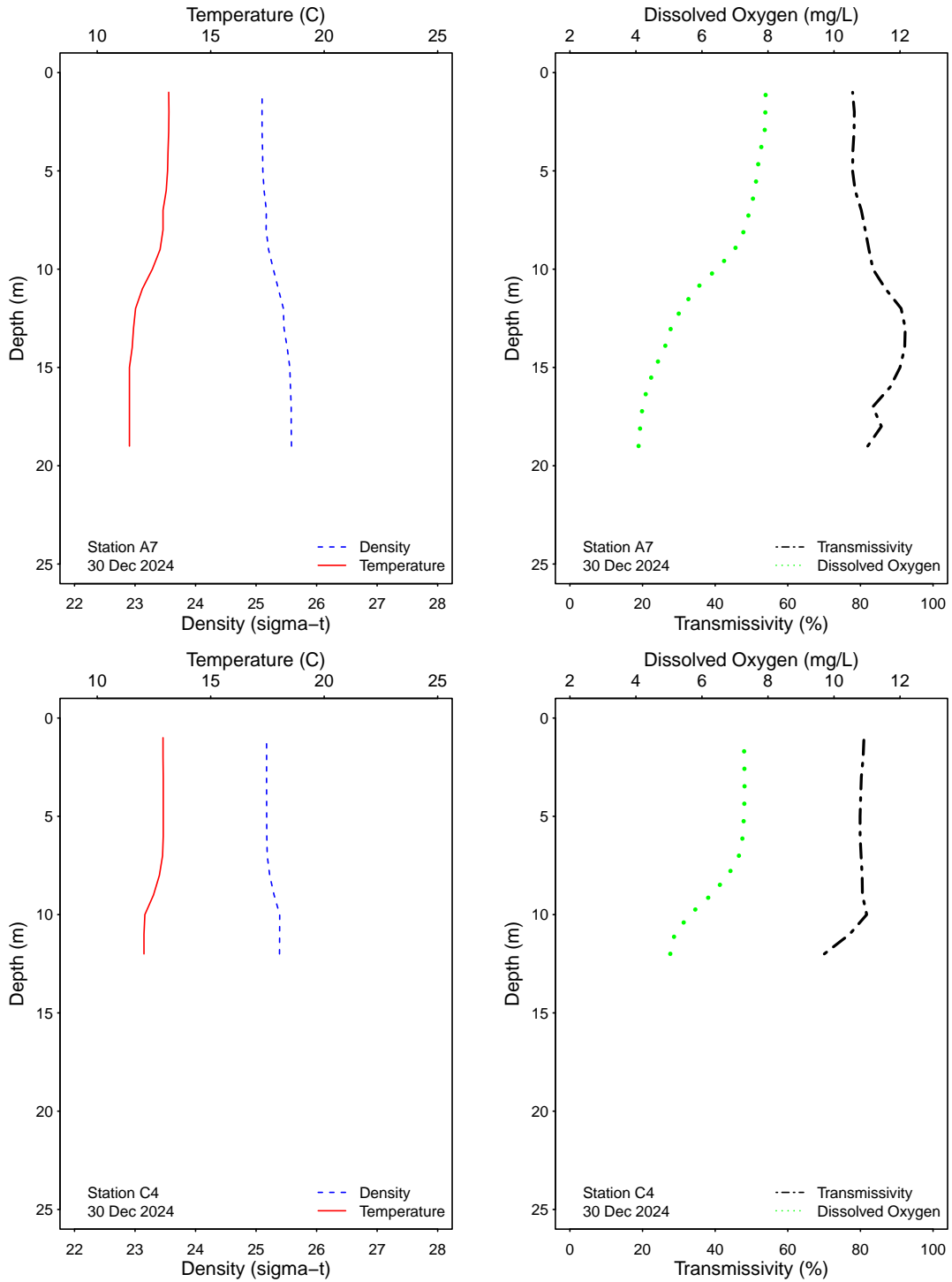


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

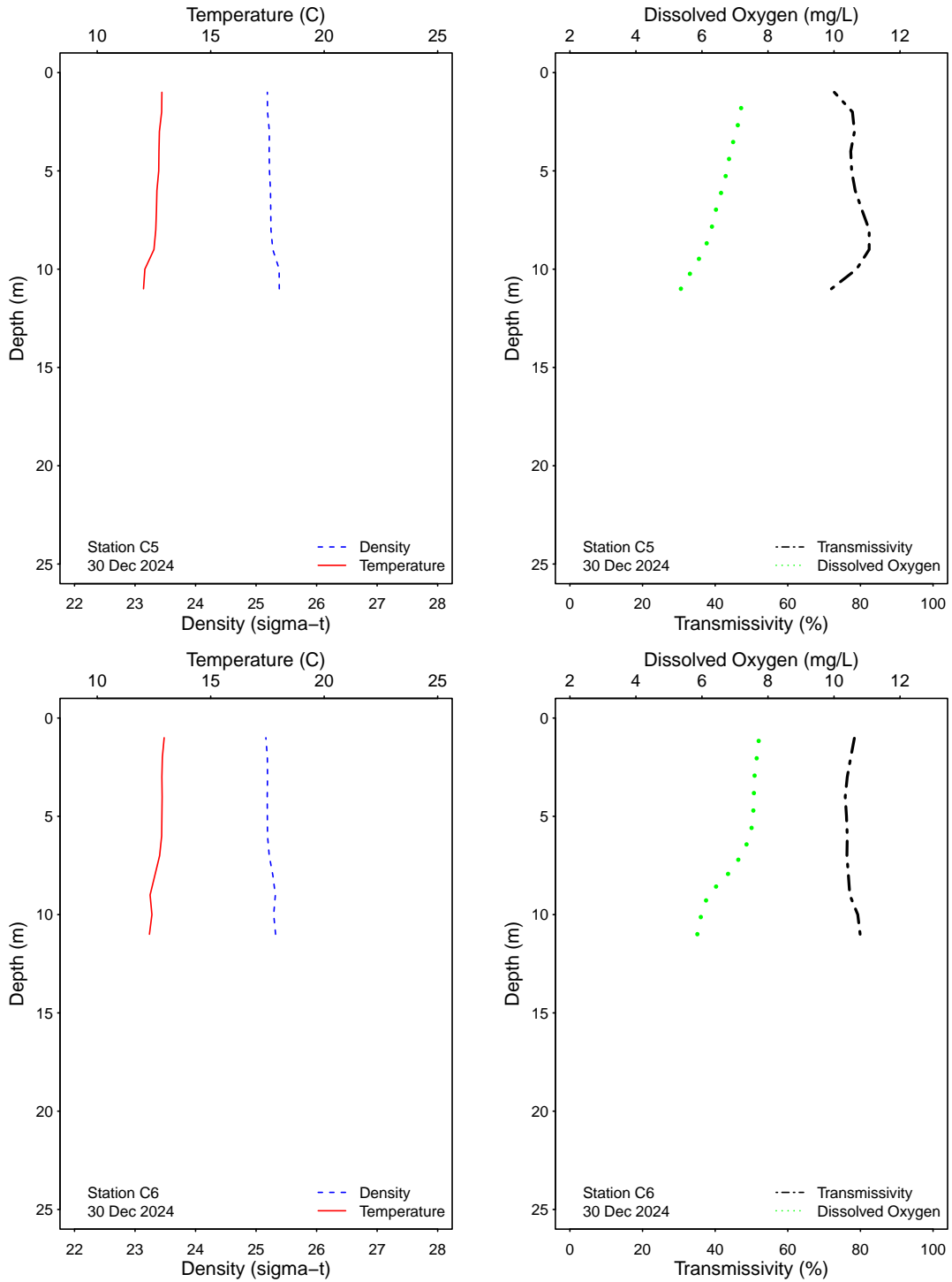


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

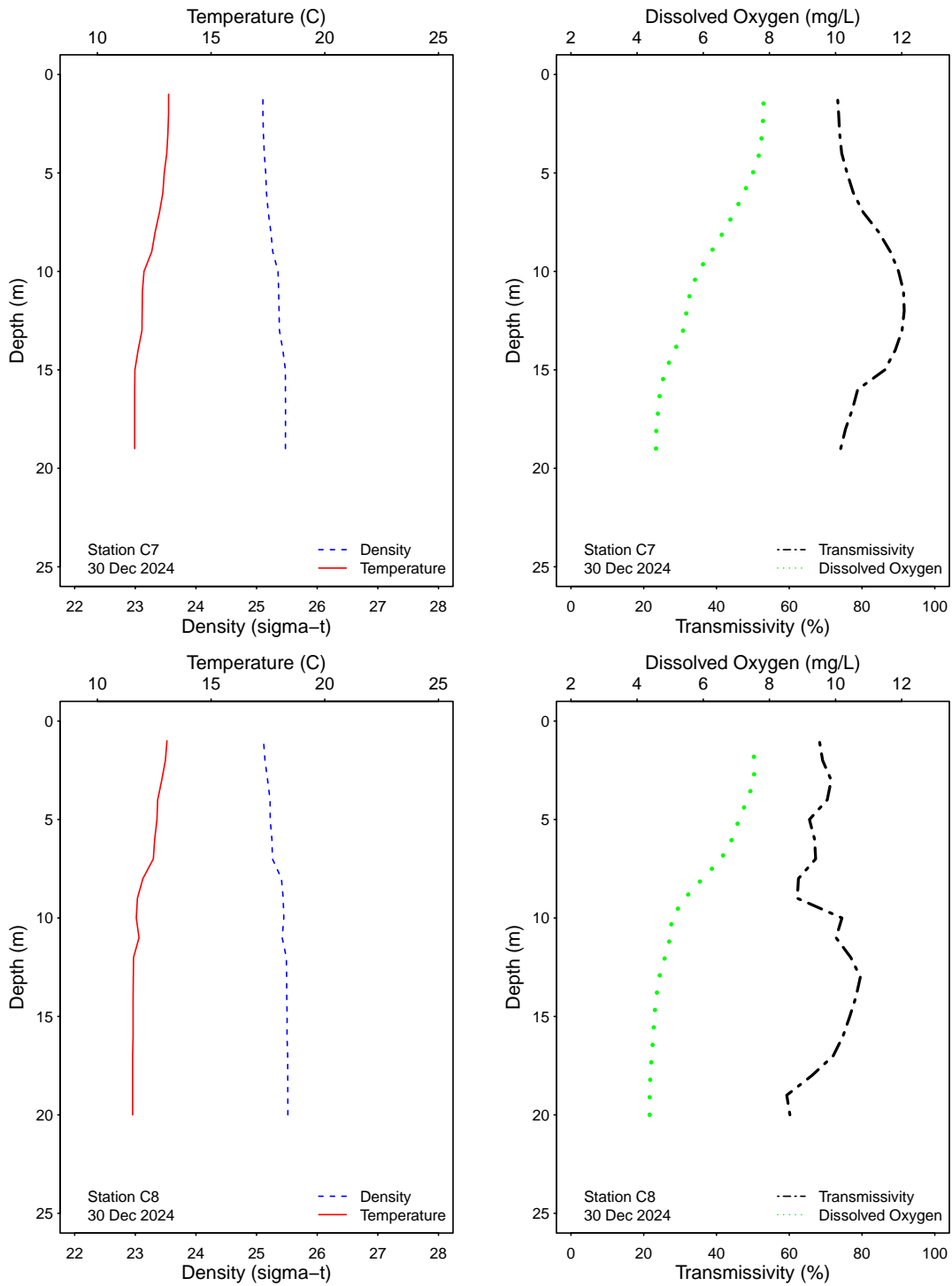


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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 Dec 2024	18	ADG	LAB DUPLICATE	2	2	2
A7	11 Dec 2024	18	ADG	LAB DUPLICATE	2	2	2
A7	17 Dec 2024	18	ADG	LAB DUPLICATE	2	2	2
A7	26 Dec 2024	18	JF	LAB DUPLICATE	40	2	2
A7	30 Dec 2024	18	JF	LAB DUPLICATE	800	30	2
C7	02 Dec 2024	18	ADG	LAB DUPLICATE	4	2	2
C7	11 Dec 2024	18	ADG	LAB DUPLICATE	6	2	2
C7	17 Dec 2024	18	ADG	LAB DUPLICATE	2	2	2
C7	26 Dec 2024	18	JF	LAB DUPLICATE	2	2	2
C7	30 Dec 2024	18	JF	LAB DUPLICATE	4	2	2
C8	02 Dec 2024	12	ADG	LAB DUPLICATE	2	2	2
C8	11 Dec 2024	12	ADG	LAB DUPLICATE	4	2	2
C8	17 Dec 2024	12	ADG	LAB DUPLICATE	140	26	2
C8	26 Dec 2024	12	JF	LAB DUPLICATE	2	2	2
C8	30 Dec 2024	12	JF	LAB DUPLICATE	6	2	2
D12	04 Dec 2024		ADG	LAB DUPLICATE	20	2	2
D12	04 Dec 2024		ADG	FIELD DUPLICATE	20	2	2
D12	11 Dec 2024		ND	LAB DUPLICATE	2	2	6
D12	11 Dec 2024		ND	FIELD DUPLICATE	20	20	2
D12	18 Dec 2024		ND	LAB DUPLICATE	20	14	6
D12	18 Dec 2024		ND	FIELD DUPLICATE	20	8	6
D12	26 Dec 2024		WT	FIELD DUPLICATE	20	2	2
D12	26 Dec 2024		WT	LAB DUPLICATE	20	4	2

ns = not sampled

ND = no data

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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 Dec 2024	2	4	2	4	4	7	4	3
02 Dec 2024	2	4	2	4	4	7	4	3
03 Dec 2024	2	4	2	4	4	7	4	3
04 Dec 2024	2	4	2	6	5	7	5	3
05 Dec 2024	2	4	2	6	5	7	5	3
06 Dec 2024	2	4	2	6	5	7	5	3
07 Dec 2024	2	4	2	6	5	7	5	3
08 Dec 2024	2	4	2	6	5	7	5	3
09 Dec 2024	2	4	2	6	5	7	5	3
10 Dec 2024	2	4	2	6	5	7	5	3
11 Dec 2024	2	3	2	9	5	6	5	4
12 Dec 2024	2	3	2	9	5	6	5	4
13 Dec 2024	2	3	2	9	5	6	5	4
14 Dec 2024	2	3	2	9	5	6	5	4
15 Dec 2024	2	3	2	9	5	6	5	4
16 Dec 2024	2	3	2	9	5	6	5	4
17 Dec 2024	2	3	2	9	5	6	5	4
18 Dec 2024	2	3	2	6	11	8	5	4
19 Dec 2024	2	3	2	6	11	8	5	4
20 Dec 2024	2	3	2	6	11	8	5	4
21 Dec 2024	2	3	2	6	11	8	5	4
22 Dec 2024	2	3	2	6	11	8	5	4
23 Dec 2024	2	3	2	6	11	8	5	4
24 Dec 2024	2	3	2	6	11	8	5	4
25 Dec 2024	2	2	2	6	9	5	3	2
26 Dec 2024	2	2	2	5	8	5	5	3
27 Dec 2024	2	2	2	5	8	5	5	3
28 Dec 2024	2	2	2	5	8	5	5	3
29 Dec 2024	2	2	2	5	8	5	5	3
30 Dec 2024	2	2	2	5	8	5	5	3
31 Dec 2024	2	2	2	5	8	5	5	3

* Geometric mean calculated using n<5

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
December	IC	IC	IC	IC	E	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 Dec 2024	*20	*30	*5	*200	*20	*20	*30	*20
02 Dec 2024	*20	*30	*5	*200	*20	*20	*30	*20
03 Dec 2024	*20	*30	*5	*200	*20	*20	*30	*20
04 Dec 2024	20	40	2	200	20	20	20	20
05 Dec 2024	20	40	2	200	20	20	20	20
06 Dec 2024	*20	*60	*2	*300	*20	*20	*30	*20
07 Dec 2024	*20	*60	*2	*300	*20	*20	*30	*20
08 Dec 2024	*20	*60	*2	*300	*20	*20	*30	*20
09 Dec 2024	*20	*60	*2	*300	*20	*20	*30	*20
10 Dec 2024	*20	*60	*2	*300	*20	*20	*30	*20
11 Dec 2024	20	40	2	200	20	20	40	20
12 Dec 2024	20	40	2	200	20	20	40	20
13 Dec 2024	*20	*40	*2	*300	*20	*20	*30	*20
14 Dec 2024	*20	*40	*2	*300	*20	*20	*30	*20
15 Dec 2024	*20	*40	*2	*300	*20	*20	*30	*20
16 Dec 2024	*20	*40	*2	*300	*20	*20	*30	*20
17 Dec 2024	*20	*40	*2	*300	*20	*20	*30	*20
18 Dec 2024	20	40	2	200	20	20	20	20
19 Dec 2024	20	40	2	200	20	20	20	20
20 Dec 2024	*16	*40	*2	*150	*20	*20	*20	*20
21 Dec 2024	*16	*40	*2	*150	*20	*20	*20	*20
22 Dec 2024	*16	*40	*2	*150	*20	*20	*20	*20
23 Dec 2024	*16	*40	*2	*150	*20	*20	*20	*20
24 Dec 2024	*16	*40	*2	*150	*20	*20	*20	*20
25 Dec 2024	*12	*40	*2	*100	*20	*20	*20	*20
26 Dec 2024	*7	*30	*2	*60	*30	*20	*20	*20
27 Dec 2024	*7	*30	*2	*60	*30	*20	*20	*20
28 Dec 2024	*7	*30	*2	*60	*30	*20	*20	*20
29 Dec 2024	*7	*30	*2	*60	*30	*20	*20	*20
30 Dec 2024	*7	*30	*2	*60	*30	*20	*20	*20
31 Dec 2024	*7	*30	*2	*60	*30	*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
December	IC	IC	IC	E	E	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 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Dec 2024	2	2	2	2	2	2	2	2
02 Dec 2024	2	2	2	2	2	2	2	2
03 Dec 2024	2	2	2	2	2	2	2	2
04 Dec 2024	2	2	2	2	2	2	2	2
05 Dec 2024	2	2	2	2	2	2	2	2
06 Dec 2024	2	2	2	2	2	2	2	2
07 Dec 2024	2	2	2	2	2	2	2	2
08 Dec 2024	2	2	2	2	2	2	2	2
09 Dec 2024	2	2	2	2	2	2	2	2
10 Dec 2024	2	2	2	2	2	2	2	2
11 Dec 2024	2	2	2	2	2	2	2	2
12 Dec 2024	2	2	2	2	2	2	2	2
13 Dec 2024	2	2	2	2	2	2	2	2
14 Dec 2024	2	2	2	2	2	2	2	2
15 Dec 2024	2	2	2	2	2	2	2	2
16 Dec 2024	2	2	2	2	2	2	2	2
17 Dec 2024	2	2	2	2	2	2	2	2
18 Dec 2024	2	2	2	2	2	2	2	2
19 Dec 2024	2	2	2	2	2	2	2	2
20 Dec 2024	2	2	2	2	2	2	2	2
21 Dec 2024	2	2	2	2	2	2	2	2
22 Dec 2024	2	2	2	2	2	2	2	2
23 Dec 2024	2	2	2	2	2	2	2	2
24 Dec 2024	2	2	2	2	2	2	2	2
25 Dec 2024	2	2	2	2	2	2	2	2
26 Dec 2024	2	2	2	2	2	2	2	2
27 Dec 2024	2	2	2	2	2	2	2	2
28 Dec 2024	2	2	2	2	2	2	2	2
29 Dec 2024	2	2	2	2	2	2	2	2
30 Dec 2024	2	2	2	2	2	2	2	2
31 Dec 2024	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.6

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	A1	A6	A7	C4	C5	C6	C7	C8
December	IC	IC	IC	IC	IC	IC	IC	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 MedianTM 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 over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

Date	A1		A6		A7		C4		C5		C6		C7		C8		
	1m	18m	1m	18m	1m	18m	1m	3m	9m	1m	3m	9m	1m	12m	18m	12m	18m
01 Dec 2024	*2	*8	*2	*20	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*3
02 Dec 2024	2	2	2	2	2	8	2	2	2	2	2	2	2	2	4	2	2
03 Dec 2024	2	2	2	2	2	8	2	2	2	2	2	2	2	2	4	2	2
04 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
05 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
06 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
07 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
08 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
09 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
10 Dec 2024	*2	*2	*2	*16	*2	*15	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*2
11 Dec 2024	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	2
12 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5
13 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5
14 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5
15 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5
16 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*3	*2	*5
17 Dec 2024	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2	2	4
18 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
19 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
20 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
21 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
22 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
23 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
24 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
25 Dec 2024	*2	*2	*2	*2	*2	*5	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*3
26 Dec 2024	*2	*2	*2	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*4	*3	*12
27 Dec 2024	*2	*2	*2	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*4	*3	*12
28 Dec 2024	*2	*2	*2	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*4	*3	*12
29 Dec 2024	*2	*2	*2	*2	*2	*4	*2	*2	*2	*2	*2	*2	*2	*2	*4	*3	*12
30 Dec 2024	2	2	2	2	2	6	2	2	2	2	2	2	2	2	4	2	4
31 Dec 2024	2	2	2	2	2	6	2	2	2	2	2	2	2	2	4	2	4

* Median calculated using n<5

Table B.8

Summary of compliance at the PLOO 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

Date	A1		A6		A7		C4		C5		C6		C7		C8		
	1m	18m	1m	12m	12m	18m	1m	3m	1m	3m	1m	3m	1m	12m	1m	12m	18m
December	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance
 E = Exceedance
 ns = not sampled
 ND = no data