SD Public Utilities

POINT LOMA OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

POINT LOMA WASTEWATER TREATMENT PLANT

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

JULY 2025

Environmental Monitoring and Technical Services
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CERTIFIED
Public Utilities Department
Continual Improvement, Prevention of Pollution, Regulatory Compliance
ISO 14001

The City of SAN DIEGO
Public Utilities Department
Environmental Monitoring & Technical Services Division

August 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 July 2025 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:

- Over the past several years, due to increasing instability in some cliffside areas of Point Loma, City staff have periodically been unable to safely access and sample some stations. As a result, the after consultation with and approval by the Regional Board, the sampling location has varied between D8, D8-A and D8-B. Access to site D8 was recently restored and sampling at D8 resumed in March 2025.

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, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions.

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

Bacteriological Reporting and Quality Assurance

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)[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

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.

Single Sample Maximums:

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987[2]) 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 2025 Quality Assurance Report, which will be completed in March 2026.

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, D9, D10, D11, D12) were sampled on July 2, 9, 16, 23, and 30.
- During the July reporting period, each of the eight shore stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.
- Nothing of sewage origin was observed at PLOO shore station in July.
- 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 July 7, 15, 22, and 31.
- During the July reporting period, each of the eight kelp stations was in compliance with the various 2015 California Ocean Plan (Ocean Plan) water contact standards.

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

- Water column temperatures ranged from 11.67 to 20.71°C. The difference between surface and bottom waters ranged from 1.97 to 7.22°C.
- Chlorophyll *a* concentrations ranged from 0.34 to 11.25 µg/L.
- Nothing of sewage origin was observed at PLOO kelp stations in July.

Offshore Stations

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

TABLES AND FIGURES

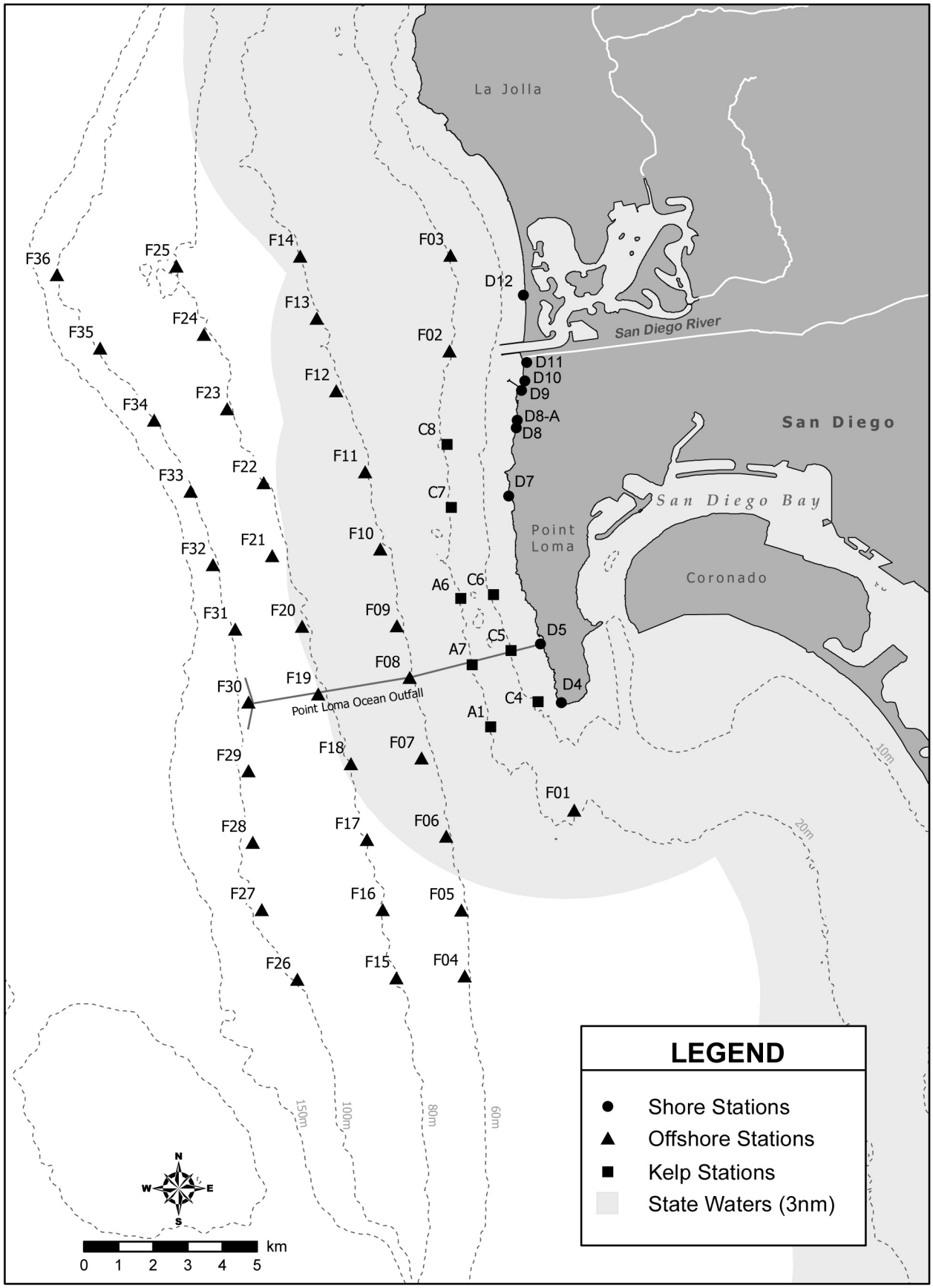

Figure 1.1 Station Map

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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	D9	D10	D11	D12
01 Jul 2025	*2	*2	*2	*3	*3	*6	*6	*4
02 Jul 2025	2	2	2	4	3	8	5	3
03 Jul 2025	2	2	2	4	3	8	5	3
04 Jul 2025	*2	*2	*2	*5	*3	*11	*7	*3
05 Jul 2025	*2	*2	*2	*5	*3	*11	*7	*3
06 Jul 2025	*2	*2	*2	*5	*3	*11	*7	*3
07 Jul 2025	*2	*2	*2	*5	*3	*11	*7	*3
08 Jul 2025	*2	*2	*2	*5	*3	*11	*7	*3
09 Jul 2025	2	2	2	4	3	8	8	4
10 Jul 2025	2	2	2	4	3	8	8	4
11 Jul 2025	*2	*2	*2	*4	*2	*6	*10	*5
12 Jul 2025	*2	*2	*2	*4	*2	*6	*10	*5
13 Jul 2025	*2	*2	*2	*4	*2	*6	*10	*5
14 Jul 2025	*2	*2	*2	*4	*2	*6	*10	*5
15 Jul 2025	*2	*2	*2	*4	*2	*6	*10	*5
16 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
17 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
18 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
19 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
20 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
21 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
22 Jul 2025	*2	*2	*3	*4	*2	*6	*12	*11
23 Jul 2025	2	2	3	4	2	5	11	8
24 Jul 2025	2	2	3	4	2	5	11	8
25 Jul 2025	*2	*2	*3	*4	*2	*4	*14	*7
26 Jul 2025	*2	*2	*3	*4	*2	*4	*14	*7
27 Jul 2025	*2	*2	*3	*4	*2	*4	*14	*7
28 Jul 2025	*2	*2	*3	*4	*2	*4	*14	*7
29 Jul 2025	*2	*2	*3	*4	*2	*4	*14	*7
30 Jul 2025	2	2	3	4	2	4	14	6
31 Jul 2025	2	2	3	4	2	4	14	6

* 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	D9	D10	D11	D12
02 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
09 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
30 Jul 2025	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	D9	D10	D11	D12
01 Jul 2025	*2	*2	*5	*3	*3	*5	*11	*3
02 Jul 2025	2	2	4	3	2	4	9	3
03 Jul 2025	2	2	4	3	2	4	9	3
04 Jul 2025	*2	*2	*5	*3	*2	*5	*14	*4
05 Jul 2025	*2	*2	*5	*3	*2	*5	*14	*4
06 Jul 2025	*2	*2	*5	*3	*2	*5	*14	*4
07 Jul 2025	*2	*2	*5	*3	*2	*5	*14	*4
08 Jul 2025	*2	*2	*5	*3	*2	*5	*14	*4
09 Jul 2025	2	2	4	3	2	6	12	3
10 Jul 2025	2	2	4	3	2	6	12	3
11 Jul 2025	*2	*2	*5	*3	*2	*5	*13	*4
12 Jul 2025	*2	*2	*5	*3	*2	*5	*13	*4
13 Jul 2025	*2	*2	*5	*3	*2	*5	*13	*4
14 Jul 2025	*2	*2	*5	*3	*2	*5	*13	*4
15 Jul 2025	*2	*2	*5	*3	*2	*5	*13	*4
16 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
17 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
18 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
19 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
20 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
21 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
22 Jul 2025	*2	*2	*3	*3	*2	*5	*18	*4
23 Jul 2025	2	2	3	3	2	4	17	3
24 Jul 2025	2	2	3	3	2	4	17	3
25 Jul 2025	*2	*2	*3	*3	*2	*3	*13	*3
26 Jul 2025	*2	*2	*3	*3	*2	*3	*13	*3
27 Jul 2025	*2	*2	*3	*3	*2	*3	*13	*3
28 Jul 2025	*2	*2	*3	*3	*2	*3	*13	*3
29 Jul 2025	*2	*2	*3	*3	*2	*3	*13	*3
30 Jul 2025	2	2	3	3	2	3	9	2
31 Jul 2025	2	2	3	3	2	3	9	2

* 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	D9	D10	D11	D12
02 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
09 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
30 Jul 2025	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	D9	D10	D11	D12
01 Jul 2025	*20	*63	*63	*36	*16	*53	*60	*11
02 Jul 2025	20	80	50	50	17	50	87	13
03 Jul 2025	20	80	50	50	17	50	87	13
04 Jul 2025	*36	*112	*36	*63	*24	*75	*106	*11
05 Jul 2025	*36	*112	*36	*63	*24	*75	*106	*11
06 Jul 2025	*36	*112	*36	*63	*24	*75	*106	*11
07 Jul 2025	*36	*112	*36	*63	*24	*75	*106	*11
08 Jul 2025	*36	*112	*36	*63	*24	*75	*106	*11
09 Jul 2025	32	80	50	80	26	58	76	13
10 Jul 2025	32	80	50	80	26	58	76	13
11 Jul 2025	*36	*112	*63	*112	*24	*42	*106	*20
12 Jul 2025	*36	*112	*63	*112	*24	*42	*106	*20
13 Jul 2025	*36	*112	*63	*112	*24	*42	*106	*20
14 Jul 2025	*36	*112	*63	*112	*24	*42	*106	*20
15 Jul 2025	*36	*112	*63	*112	*24	*42	*106	*20
16 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
17 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
18 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
19 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
20 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
21 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
22 Jul 2025	*20	*63	*112	*112	*40	*28	*134	*36
23 Jul 2025	20	50	126	126	54	26	145	32
24 Jul 2025	20	50	126	126	54	26	145	32
25 Jul 2025	*11	*36	*112	*112	*39	*16	*134	*20
26 Jul 2025	*11	*36	*112	*112	*39	*16	*134	*20
27 Jul 2025	*11	*36	*112	*112	*39	*16	*134	*20
28 Jul 2025	*11	*36	*112	*112	*39	*16	*134	*20
29 Jul 2025	*11	*36	*112	*112	*39	*16	*134	*20
30 Jul 2025	13	32	126	80	34	17	91	16
31 Jul 2025	13	32	126	80	34	17	91	16

* 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	D9	D10	D11	D12
02 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
09 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
30 Jul 2025	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	D9	D10	D11	D12
02 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
09 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
16 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
23 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
30 Jul 2025	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	02 Jul 2025	1005	40e	<20	<2
D10	09 Jul 2025	743	20e	2e	10e
D10	16 Jul 2025	854	4e	2e	<2
D10	23 Jul 2025	852	20e	2e	2e
D10	30 Jul 2025	842	20e	10e	<2
D11	02 Jul 2025	1019	400e	4e	4e
D11	09 Jul 2025	731	<20	<20	8e
D11	16 Jul 2025	840	<200	60e	62
D11	23 Jul 2025	838	<200	8e	16e
D11	30 Jul 2025	831	<20	12e	2e
D12	02 Jul 2025	1042	<20	<2	6e
D12	09 Jul 2025	710	<20	12e	<2
D12	16 Jul 2025	811	20e	60e	<2
D12	23 Jul 2025	809	<20	<2	<2
D12	30 Jul 2025	806	6e	<2	<2
D4	02 Jul 2025	810	20e	<2	<2
D4	09 Jul 2025	907	<20	<2	<2
D4	16 Jul 2025	1026	<2	<2	<2
D4	23 Jul 2025	1017	<20	<2	<2
D4	30 Jul 2025	1007	<20	<2	<2
D5	02 Jul 2025	823	<200	<2	<2
D5	09 Jul 2025	853	<20	<2	<2
D5	16 Jul 2025	1013	20e	<2	<2
D5	23 Jul 2025	1007	<20	2e	<2
D5	30 Jul 2025	957	<20	<2	<2
D7	02 Jul 2025	857	<20	<2	<2
D7	09 Jul 2025	824	<200	2e	2e
D7	16 Jul 2025	943	<200	8e	2e
D7	23 Jul 2025	931	<200	<2	8e
D7	30 Jul 2025	929	<200	<2	2e
D8	02 Jul 2025	919	<200	<20	4e
D8	09 Jul 2025	809	<200	<2	<2
D8	16 Jul 2025	920	<20	<2	<2
D8	23 Jul 2025	917	<200	4e	8e
D8	30 Jul 2025	908	20e	<2	<2
D9	02 Jul 2025	938	20e	2e	<2
D9	09 Jul 2025	755	40e	<2	<2
D9	16 Jul 2025	907	16e	<2	<2
D9	23 Jul 2025	904	180e	4e	2e
D9	30 Jul 2025	854	<20	<2	2e

ns = not sampled
ND = no data

Table 2.9

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

Station	Date	Parameter	Value
D4	02 Jul 2025	Arrive Time	810
D4	02 Jul 2025	Wind Speed (kts)	0.6
D4	02 Jul 2025	Wind Dir	W
D4	02 Jul 2025	Animal Life	
D4	02 Jul 2025	Floatables	
D4	02 Jul 2025	Current Direction	S
D4	02 Jul 2025	Water Temp (C)	15.1
D4	02 Jul 2025	High Tide Time	
D4	02 Jul 2025	Low Tide Time	
D4	02 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D4	09 Jul 2025	Arrive Time	907
D4	09 Jul 2025	Wind Speed (kts)	2.4
D4	09 Jul 2025	Wind Dir	NW
D4	09 Jul 2025	Animal Life	
D4	09 Jul 2025	Floatables	
D4	09 Jul 2025	Current Direction	E
D4	09 Jul 2025	Water Temp (C)	17.5
D4	09 Jul 2025	High Tide Time	
D4	09 Jul 2025	Low Tide Time	
D4	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D4	16 Jul 2025	Arrive Time	1026
D4	16 Jul 2025	Wind Speed (kts)	2.4
D4	16 Jul 2025	Wind Dir	S
D4	16 Jul 2025	Animal Life	
D4	16 Jul 2025	Floatables	
D4	16 Jul 2025	Current Direction	S
D4	16 Jul 2025	Water Temp (C)	20.7
D4	16 Jul 2025	High Tide Time	
D4	16 Jul 2025	Low Tide Time	
D4	16 Jul 2025	Comments	Water clear; Trash-3; Seagrass;Algae;Debris
D4	23 Jul 2025	Arrive Time	1017
D4	23 Jul 2025	Wind Speed (kts)	2.1
D4	23 Jul 2025	Wind Dir	W
D4	23 Jul 2025	Animal Life	
D4	23 Jul 2025	Floatables	
D4	23 Jul 2025	Current Direction	S
D4	23 Jul 2025	Water Temp (C)	18.4
D4	23 Jul 2025	High Tide Time	
D4	23 Jul 2025	Low Tide Time	
D4	23 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-2; Trash-1; Seagrass;Kelp;Algae
D4	30 Jul 2025	Arrive Time	1007
D4	30 Jul 2025	Wind Speed (kts)	0
D4	30 Jul 2025	Wind Dir	XX
D4	30 Jul 2025	Animal Life	
D4	30 Jul 2025	Floatables	
D4	30 Jul 2025	Current Direction	S
D4	30 Jul 2025	Water Temp (C)	18.6
D4	30 Jul 2025	High Tide Time	
D4	30 Jul 2025	Low Tide Time	
D4	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae

Station	Date	Parameter	Value
D5	02 Jul 2025	Arrive Time	823
D5	02 Jul 2025	Wind Speed (kts)	0.1
D5	02 Jul 2025	Wind Dir	W
D5	02 Jul 2025	Animal Life	
D5	02 Jul 2025	Floatables	
D5	02 Jul 2025	Current Direction	S
D5	02 Jul 2025	Water Temp (C)	15.6
D5	02 Jul 2025	High Tide Time	
D5	02 Jul 2025	Low Tide Time	
D5	02 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	09 Jul 2025	Arrive Time	853
D5	09 Jul 2025	Wind Speed (kts)	0
D5	09 Jul 2025	Wind Dir	W
D5	09 Jul 2025	Animal Life	
D5	09 Jul 2025	Floatables	
D5	09 Jul 2025	Current Direction	E
D5	09 Jul 2025	Water Temp (C)	17.9
D5	09 Jul 2025	High Tide Time	
D5	09 Jul 2025	Low Tide Time	
D5	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D5	16 Jul 2025	Arrive Time	1013
D5	16 Jul 2025	Wind Speed (kts)	3.3
D5	16 Jul 2025	Wind Dir	SW
D5	16 Jul 2025	Animal Life	
D5	16 Jul 2025	Floatables	
D5	16 Jul 2025	Current Direction	S
D5	16 Jul 2025	Water Temp (C)	19.9
D5	16 Jul 2025	High Tide Time	
D5	16 Jul 2025	Low Tide Time	
D5	16 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass
D5	23 Jul 2025	Arrive Time	1007
D5	23 Jul 2025	Wind Speed (kts)	5.6
D5	23 Jul 2025	Wind Dir	NW
D5	23 Jul 2025	Animal Life	
D5	23 Jul 2025	Floatables	
D5	23 Jul 2025	Current Direction	S
D5	23 Jul 2025	Water Temp (C)	20.5
D5	23 Jul 2025	High Tide Time	
D5	23 Jul 2025	Low Tide Time	
D5	23 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D5	30 Jul 2025	Arrive Time	957
D5	30 Jul 2025	Wind Speed (kts)	0
D5	30 Jul 2025	Wind Dir	XX
D5	30 Jul 2025	Animal Life	
D5	30 Jul 2025	Floatables	
D5	30 Jul 2025	Current Direction	S
D5	30 Jul 2025	Water Temp (C)	19.7
D5	30 Jul 2025	High Tide Time	
D5	30 Jul 2025	Low Tide Time	
D5	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D7	02 Jul 2025	Arrive Time	857
D7	02 Jul 2025	Wind Speed (kts)	1.5
D7	02 Jul 2025	Wind Dir	NW
D7	02 Jul 2025	Animal Life	
D7	02 Jul 2025	Floatables	
D7	02 Jul 2025	Current Direction	S

Station	Date	Parameter	Value
D7	02 Jul 2025	Water Temp (C)	16.5
D7	02 Jul 2025	High Tide Time	
D7	02 Jul 2025	Low Tide Time	
D7	02 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-3
D7	09 Jul 2025	Arrive Time	824
D7	09 Jul 2025	Wind Speed (kts)	0
D7	09 Jul 2025	Wind Dir	SW
D7	09 Jul 2025	Animal Life	
D7	09 Jul 2025	Floatables	
D7	09 Jul 2025	Current Direction	E
D7	09 Jul 2025	Water Temp (C)	17
D7	09 Jul 2025	High Tide Time	
D7	09 Jul 2025	Low Tide Time	
D7	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae
D7	16 Jul 2025	Arrive Time	943
D7	16 Jul 2025	Wind Speed (kts)	0
D7	16 Jul 2025	Wind Dir	SW
D7	16 Jul 2025	Animal Life	
D7	16 Jul 2025	Floatables	
D7	16 Jul 2025	Current Direction	S
D7	16 Jul 2025	Water Temp (C)	19.4
D7	16 Jul 2025	High Tide Time	
D7	16 Jul 2025	Low Tide Time	
D7	16 Jul 2025	Comments	Water clear; Trash-2; Kelp;Algae;Seagrass
D7	23 Jul 2025	Arrive Time	931
D7	23 Jul 2025	Wind Speed (kts)	2.1
D7	23 Jul 2025	Wind Dir	NW
D7	23 Jul 2025	Animal Life	
D7	23 Jul 2025	Floatables	
D7	23 Jul 2025	Current Direction	S
D7	23 Jul 2025	Water Temp (C)	20.7
D7	23 Jul 2025	High Tide Time	
D7	23 Jul 2025	Low Tide Time	
D7	23 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D7	30 Jul 2025	Arrive Time	929
D7	30 Jul 2025	Wind Speed (kts)	0
D7	30 Jul 2025	Wind Dir	XX
D7	30 Jul 2025	Animal Life	
D7	30 Jul 2025	Floatables	
D7	30 Jul 2025	Current Direction	S
D7	30 Jul 2025	Water Temp (C)	19.9
D7	30 Jul 2025	High Tide Time	
D7	30 Jul 2025	Low Tide Time	
D7	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D8	02 Jul 2025	Arrive Time	919
D8	02 Jul 2025	Wind Speed (kts)	1.5
D8	02 Jul 2025	Wind Dir	NW
D8	02 Jul 2025	Animal Life	
D8	02 Jul 2025	Floatables	
D8	02 Jul 2025	Current Direction	S
D8	02 Jul 2025	Water Temp (C)	16.9
D8	02 Jul 2025	High Tide Time	
D8	02 Jul 2025	Low Tide Time	
D8	02 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae

Station	Date	Parameter	Value
D8	09 Jul 2025	Arrive Time	809
D8	09 Jul 2025	Wind Speed (kts)	0
D8	09 Jul 2025	Wind Dir	SW
D8	09 Jul 2025	Animal Life	
D8	09 Jul 2025	Floatables	
D8	09 Jul 2025	Current Direction	E
D8	09 Jul 2025	Water Temp (C)	16.3
D8	09 Jul 2025	High Tide Time	
D8	09 Jul 2025	Low Tide Time	
D8	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D8	16 Jul 2025	Arrive Time	920
D8	16 Jul 2025	Wind Speed (kts)	1.1
D8	16 Jul 2025	Wind Dir	SW
D8	16 Jul 2025	Animal Life	
D8	16 Jul 2025	Floatables	
D8	16 Jul 2025	Current Direction	S
D8	16 Jul 2025	Water Temp (C)	19.3
D8	16 Jul 2025	High Tide Time	
D8	16 Jul 2025	Low Tide Time	
D8	16 Jul 2025	Comments	Water clear; Trash-4; Sewage-like odor
D8	23 Jul 2025	Arrive Time	917
D8	23 Jul 2025	Wind Speed (kts)	1.7
D8	23 Jul 2025	Wind Dir	W
D8	23 Jul 2025	Animal Life	Dog-1;
D8	23 Jul 2025	Floatables	
D8	23 Jul 2025	Current Direction	S
D8	23 Jul 2025	Water Temp (C)	20.4
D8	23 Jul 2025	High Tide Time	
D8	23 Jul 2025	Low Tide Time	
D8	23 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D8	30 Jul 2025	Arrive Time	908
D8	30 Jul 2025	Wind Speed (kts)	0
D8	30 Jul 2025	Wind Dir	XX
D8	30 Jul 2025	Animal Life	Dog-1;
D8	30 Jul 2025	Floatables	
D8	30 Jul 2025	Current Direction	S
D8	30 Jul 2025	Water Temp (C)	19.3
D8	30 Jul 2025	High Tide Time	
D8	30 Jul 2025	Low Tide Time	
D8	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-1
D9	02 Jul 2025	Arrive Time	938
D9	02 Jul 2025	Wind Speed (kts)	0
D9	02 Jul 2025	Wind Dir	XX
D9	02 Jul 2025	Animal Life	
D9	02 Jul 2025	Floatables	
D9	02 Jul 2025	Current Direction	S
D9	02 Jul 2025	Water Temp (C)	16.1
D9	02 Jul 2025	High Tide Time	
D9	02 Jul 2025	Low Tide Time	
D9	02 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D9	09 Jul 2025	Arrive Time	755
D9	09 Jul 2025	Wind Speed (kts)	0
D9	09 Jul 2025	Wind Dir	NW

Station	Date	Parameter	Value
D9	09 Jul 2025	Animal Life	
D9	09 Jul 2025	Floatables	
D9	09 Jul 2025	Current Direction	E
D9	09 Jul 2025	Water Temp (C)	16
D9	09 Jul 2025	High Tide Time	
D9	09 Jul 2025	Low Tide Time	
D9	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae;Debris
D9	16 Jul 2025	Arrive Time	907
D9	16 Jul 2025	Wind Speed (kts)	4.4
D9	16 Jul 2025	Wind Dir	SW
D9	16 Jul 2025	Animal Life	
D9	16 Jul 2025	Floatables	
D9	16 Jul 2025	Current Direction	S
D9	16 Jul 2025	Water Temp (C)	18.9
D9	16 Jul 2025	High Tide Time	
D9	16 Jul 2025	Low Tide Time	
D9	16 Jul 2025	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D9	23 Jul 2025	Arrive Time	904
D9	23 Jul 2025	Wind Speed (kts)	2.3
D9	23 Jul 2025	Wind Dir	W
D9	23 Jul 2025	Animal Life	
D9	23 Jul 2025	Floatables	
D9	23 Jul 2025	Current Direction	S
D9	23 Jul 2025	Water Temp (C)	19.8
D9	23 Jul 2025	High Tide Time	
D9	23 Jul 2025	Low Tide Time	
D9	23 Jul 2025	Comments	Water clear; Trash-1; Kelp;Algae
D9	30 Jul 2025	Arrive Time	854
D9	30 Jul 2025	Wind Speed (kts)	0
D9	30 Jul 2025	Wind Dir	XX
D9	30 Jul 2025	Animal Life	
D9	30 Jul 2025	Floatables	
D9	30 Jul 2025	Current Direction	S
D9	30 Jul 2025	Water Temp (C)	18.9
D9	30 Jul 2025	High Tide Time	
D9	30 Jul 2025	Low Tide Time	
D9	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Algae
D10	02 Jul 2025	Arrive Time	1005
D10	02 Jul 2025	Wind Speed (kts)	1.5
D10	02 Jul 2025	Wind Dir	SW
D10	02 Jul 2025	Animal Life	
D10	02 Jul 2025	Floatables	
D10	02 Jul 2025	Current Direction	S
D10	02 Jul 2025	Water Temp (C)	16.1
D10	02 Jul 2025	High Tide Time	
D10	02 Jul 2025	Low Tide Time	
D10	02 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-14; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-16
D10	09 Jul 2025	Arrive Time	743
D10	09 Jul 2025	Wind Speed (kts)	0
D10	09 Jul 2025	Wind Dir	NW
D10	09 Jul 2025	Animal Life	
D10	09 Jul 2025	Floatables	
D10	09 Jul 2025	Current Direction	E
D10	09 Jul 2025	Water Temp (C)	16.1

Station	Date	Parameter	Value
D10	09 Jul 2025	High Tide Time	
D10	09 Jul 2025	Low Tide Time	
D10	09 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-4
D10	16 Jul 2025	Arrive Time	854
D10	16 Jul 2025	Wind Speed (kts)	2.1
D10	16 Jul 2025	Wind Dir	SW
D10	16 Jul 2025	Animal Life	
D10	16 Jul 2025	Floatables	
D10	16 Jul 2025	Current Direction	S
D10	16 Jul 2025	Water Temp (C)	19
D10	16 Jul 2025	High Tide Time	
D10	16 Jul 2025	Low Tide Time	
D10	16 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-11; Trash-3; Kelp;Seagrass;Debris
D10	23 Jul 2025	Arrive Time	852
D10	23 Jul 2025	Wind Speed (kts)	1.5
D10	23 Jul 2025	Wind Dir	NW
D10	23 Jul 2025	Animal Life	
D10	23 Jul 2025	Floatables	
D10	23 Jul 2025	Current Direction	S
D10	23 Jul 2025	Water Temp (C)	19.4
D10	23 Jul 2025	High Tide Time	
D10	23 Jul 2025	Low Tide Time	
D10	23 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Kelp;Seagrass;Debris
D10	30 Jul 2025	Arrive Time	842
D10	30 Jul 2025	Wind Speed (kts)	0.3
D10	30 Jul 2025	Wind Dir	W
D10	30 Jul 2025	Animal Life	
D10	30 Jul 2025	Floatables	
D10	30 Jul 2025	Current Direction	S
D10	30 Jul 2025	Water Temp (C)	18.6
D10	30 Jul 2025	High Tide Time	
D10	30 Jul 2025	Low Tide Time	
D10	30 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-6; Trash-1; Kelp;Seagrass
D11	02 Jul 2025	Arrive Time	1019
D11	02 Jul 2025	Wind Speed (kts)	3
D11	02 Jul 2025	Wind Dir	W
D11	02 Jul 2025	Animal Life	
D11	02 Jul 2025	Floatables	
D11	02 Jul 2025	Current Direction	S
D11	02 Jul 2025	Water Temp (C)	17.1
D11	02 Jul 2025	High Tide Time	
D11	02 Jul 2025	Low Tide Time	
D11	02 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-10
D11	09 Jul 2025	Arrive Time	731
D11	09 Jul 2025	Wind Speed (kts)	0
D11	09 Jul 2025	Wind Dir	NW
D11	09 Jul 2025	Animal Life	
D11	09 Jul 2025	Floatables	
D11	09 Jul 2025	Current Direction	E
D11	09 Jul 2025	Water Temp (C)	16.3
D11	09 Jul 2025	High Tide Time	

Station	Date	Parameter	Value
D11	09 Jul 2025	Low Tide Time	
D11	09 Jul 2025	Comments	Water clear; Boogie boarder/Swimmer-1; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D11	16 Jul 2025	Arrive Time	840
D11	16 Jul 2025	Wind Speed (kts)	1.9
D11	16 Jul 2025	Wind Dir	SW
D11	16 Jul 2025	Animal Life	Dog-1;
D11	16 Jul 2025	Floatables	
D11	16 Jul 2025	Current Direction	S
D11	16 Jul 2025	Water Temp (C)	19.4
D11	16 Jul 2025	High Tide Time	
D11	16 Jul 2025	Low Tide Time	
D11	16 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-3; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
D11	23 Jul 2025	Arrive Time	838
D11	23 Jul 2025	Wind Speed (kts)	1.5
D11	23 Jul 2025	Wind Dir	W
D11	23 Jul 2025	Animal Life	
D11	23 Jul 2025	Floatables	
D11	23 Jul 2025	Current Direction	S
D11	23 Jul 2025	Water Temp (C)	19.1
D11	23 Jul 2025	High Tide Time	
D11	23 Jul 2025	Low Tide Time	
D11	23 Jul 2025	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Kelp;Seagrass;Debris;Algae; Person/Walker/Jogger-1
D11	30 Jul 2025	Arrive Time	831
D11	30 Jul 2025	Wind Speed (kts)	0.1
D11	30 Jul 2025	Wind Dir	W
D11	30 Jul 2025	Animal Life	
D11	30 Jul 2025	Floatables	
D11	30 Jul 2025	Current Direction	S
D11	30 Jul 2025	Water Temp (C)	19.1
D11	30 Jul 2025	High Tide Time	
D11	30 Jul 2025	Low Tide Time	
D11	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
D12	02 Jul 2025	Arrive Time	1042
D12	02 Jul 2025	Wind Speed (kts)	4.6
D12	02 Jul 2025	Wind Dir	W
D12	02 Jul 2025	Animal Life	
D12	02 Jul 2025	Floatables	
D12	02 Jul 2025	Current Direction	S
D12	02 Jul 2025	Water Temp (C)	17.4
D12	02 Jul 2025	High Tide Time	
D12	02 Jul 2025	Low Tide Time	
D12	02 Jul 2025	Comments	Water clear; Boogie boarder/Swimmer-10; Fisherperson-1; Trash-1; Seagrass;Kelp; Person/Walker/Jogger-28
D12	09 Jul 2025	Arrive Time	710
D12	09 Jul 2025	Wind Speed (kts)	0
D12	09 Jul 2025	Wind Dir	W
D12	09 Jul 2025	Animal Life	
D12	09 Jul 2025	Floatables	
D12	09 Jul 2025	Current Direction	E
D12	09 Jul 2025	Water Temp (C)	14.6
D12	09 Jul 2025	High Tide Time	
D12	09 Jul 2025	Low Tide Time	

Station	Date	Parameter	Value
D12	09 Jul 2025	Comments	Water clear; Boogie boarder/Swimmer-6; Surfer/Paddle boarder-4; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-2
D12	16 Jul 2025	Arrive Time	811
D12	16 Jul 2025	Wind Speed (kts)	2.5
D12	16 Jul 2025	Wind Dir	SW
D12	16 Jul 2025	Animal Life	
D12	16 Jul 2025	Floatables	
D12	16 Jul 2025	Current Direction	S
D12	16 Jul 2025	Water Temp (C)	18.1
D12	16 Jul 2025	High Tide Time	
D12	16 Jul 2025	Low Tide Time	
D12	16 Jul 2025	Comments	Water clear; Trash-4; Debris
D12	23 Jul 2025	Arrive Time	809
D12	23 Jul 2025	Wind Speed (kts)	3.6
D12	23 Jul 2025	Wind Dir	W
D12	23 Jul 2025	Animal Life	
D12	23 Jul 2025	Floatables	
D12	23 Jul 2025	Current Direction	S
D12	23 Jul 2025	Water Temp (C)	19.1
D12	23 Jul 2025	High Tide Time	
D12	23 Jul 2025	Low Tide Time	
D12	23 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
D12	30 Jul 2025	Arrive Time	806
D12	30 Jul 2025	Wind Speed (kts)	0.1
D12	30 Jul 2025	Wind Dir	W
D12	30 Jul 2025	Animal Life	Bird-1;
D12	30 Jul 2025	Floatables	
D12	30 Jul 2025	Current Direction	S
D12	30 Jul 2025	Water Temp (C)	17.3
D12	30 Jul 2025	High Tide Time	
D12	30 Jul 2025	Low Tide Time	
D12	30 Jul 2025	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1

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 Jul 2025	2	2	3	2	2	2	2	2
02 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
03 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
04 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
05 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
06 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
07 Jul 2025	2	2	3	2	2	2	2	2
08 Jul 2025	2	2	3	2	2	2	2	2
09 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
10 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
11 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
12 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
13 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
14 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
15 Jul 2025	2	2	2	2	2	2	2	2
16 Jul 2025	2	2	2	2	2	2	2	2
17 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
18 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
19 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
20 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
21 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
22 Jul 2025	2	2	2	2	2	2	2	2
23 Jul 2025	2	2	2	2	2	2	2	2
24 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
25 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
26 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
27 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
28 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
29 Jul 2025	*2	*2	*3	*2	*2	*2	*2	*2
30 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2

* 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
07 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2025	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 Jul 2025	2	2	2	2	2	2	2	2
02 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
03 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
04 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
05 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
06 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
07 Jul 2025	2	2	2	2	2	2	2	2
08 Jul 2025	2	2	2	2	2	2	2	2
09 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
10 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
11 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
12 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
13 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
14 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
15 Jul 2025	2	2	2	2	2	2	2	2
16 Jul 2025	2	2	2	2	2	2	2	2
17 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
18 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
19 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
20 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
21 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
22 Jul 2025	2	2	2	2	2	2	2	2
23 Jul 2025	2	2	2	2	2	2	2	2
24 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
25 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
26 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
27 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
28 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
29 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
30 Jul 2025	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2025	*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
07 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2025	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 Jul 2025	5	5	7	2	3	10	4	5
02 Jul 2025	*6	*6	*9	*2	*3	*11	*5	*6
03 Jul 2025	*6	*6	*9	*2	*3	*11	*5	*6
04 Jul 2025	*6	*6	*9	*2	*3	*11	*5	*6
05 Jul 2025	*6	*6	*9	*2	*3	*11	*5	*6
06 Jul 2025	*6	*6	*9	*2	*3	*11	*5	*6
07 Jul 2025	6	7	10	3	4	8	6	7
08 Jul 2025	6	7	10	3	4	8	6	7
09 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
10 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
11 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
12 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
13 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
14 Jul 2025	*5	*10	*9	*3	*5	*7	*8	*10
15 Jul 2025	6	7	7	5	4	6	6	7
16 Jul 2025	6	7	7	5	4	6	6	7
17 Jul 2025	*7	*10	*8	*5	*5	*7	*8	*10
18 Jul 2025	*7	*10	*8	*5	*5	*7	*8	*10
19 Jul 2025	*7	*10	*8	*5	*5	*7	*8	*10
20 Jul 2025	*7	*10	*8	*5	*5	*7	*8	*10
21 Jul 2025	*7	*10	*8	*5	*5	*7	*8	*10
22 Jul 2025	6	7	6	4	4	5	6	7
23 Jul 2025	6	7	6	4	4	5	6	7
24 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
25 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
26 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
27 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
28 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
29 Jul 2025	*5	*5	*6	*5	*3	*4	*5	*7
30 Jul 2025	*6	*4	*4	*7	*4	*3	*4	*4
31 Jul 2025	*4	*3	*3	*7	*3	*2	*4	*5

- 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 10^4 CFU/100 mL.

Date	A1	A6	A7	C4	C5	C6	C7	C8
07 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2025	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
07 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
15 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
22 Jul 2025	IC	IC	IC	IC	IC	IC	IC	IC
31 Jul 2025	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	07 Jul 2025	744	1	<20	<2	<2
A1	07 Jul 2025	744	12	<2	<2	<2
A1	07 Jul 2025	744	18	<2	<2	<2
A1	15 Jul 2025	752	1	<2	<2	<2
A1	15 Jul 2025	752	12	<2	<2	<2
A1	15 Jul 2025	752	18	<20	<2	<2
A1	22 Jul 2025	740	1	4e	<2	<2
A1	22 Jul 2025	740	12	2e	<2	2e
A1	22 Jul 2025	740	18	<2	<2	<2
A1	31 Jul 2025	739	1	<2	<2	<2
A1	31 Jul 2025	739	12	<2	<2	<2
A1	31 Jul 2025	739	18	<2	<2	<2
A6	07 Jul 2025	816	1	<20	<2	<2
A6	07 Jul 2025	816	12	<20	2e	<2
A6	07 Jul 2025	816	18	4e	<2	<2
A6	15 Jul 2025	817	1	<2	<2	<2
A6	15 Jul 2025	817	12	<2	<2	<2
A6	15 Jul 2025	817	18	<2	<2	<2
A6	22 Jul 2025	806	1	<2	<2	<2
A6	22 Jul 2025	806	12	<2	<2	<2
A6	22 Jul 2025	806	18	2e	<2	<2
A6	31 Jul 2025	822	1	<2	<2	<2
A6	31 Jul 2025	822	12	<2	<2	<2
A6	31 Jul 2025	822	18	<2	<2	<2
A7	07 Jul 2025	801	1	<20	<2	<2
A7	07 Jul 2025	801	12	<20	<2	<2
A7	07 Jul 2025	801	18	<2	<2	<2
A7	15 Jul 2025	806	1	<2	<2	<2
A7	15 Jul 2025	806	12	<2	<2	2e
A7	15 Jul 2025	806	18	2e	<2	<2
A7	22 Jul 2025	753	1	<2	<2	<2
A7	22 Jul 2025	753	12	<2	<2	<2
A7	22 Jul 2025	753	18	<2	<2	<2
A7	31 Jul 2025	804	1	<2	<2	<2
A7	31 Jul 2025	804	12	<2	<2	<2
A7	31 Jul 2025	804	18	4e	<2	<2
C4	07 Jul 2025	920	1	<2	<2	<2
C4	07 Jul 2025	920	3	<20	<2	<2
C4	07 Jul 2025	920	9	<20	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C4	15 Jul 2025	928	1	<20	<2	<2
C4	15 Jul 2025	928	3	<2	<2	<2
C4	15 Jul 2025	928	9	<20	<2	<2
C4	22 Jul 2025	928	1	<2	<2	<2
C4	22 Jul 2025	928	3	<2	<2	<2
C4	22 Jul 2025	928	9	<2	<2	<2
C4	31 Jul 2025	938	1	<20	<2	<2
C4	31 Jul 2025	938	3	<2	<2	<2
C4	31 Jul 2025	938	9	2e	<2	<2
C5	07 Jul 2025	910	1	<20	<2	<2
C5	07 Jul 2025	910	3	<20	<2	<2
C5	07 Jul 2025	910	9	<2	<2	<2
C5	15 Jul 2025	916	1	<2	<2	<2
C5	15 Jul 2025	916	3	<2	<2	<2
C5	15 Jul 2025	916	9	<2	<2	<2
C5	22 Jul 2025	918	1	<2	<2	<2
C5	22 Jul 2025	918	3	<2	<2	<2
C5	22 Jul 2025	918	9	<2	<2	<2
C5	31 Jul 2025	925	1	<2	<2	<2
C5	31 Jul 2025	925	3	<2	<2	<2
C5	31 Jul 2025	925	9	<2	<2	<2
C6	07 Jul 2025	900	1	<2	<2	<2
C6	07 Jul 2025	900	3	<2	<2	<2
C6	07 Jul 2025	900	9	<2	<2	<2
C6	15 Jul 2025	906	1	6e	<2	<2
C6	15 Jul 2025	906	3	2e	<2	<2
C6	15 Jul 2025	906	9	<2	<2	<2
C6	22 Jul 2025	906	1	<2	<2	<2
C6	22 Jul 2025	906	3	<2	<2	<2
C6	22 Jul 2025	906	9	4e	<2	<2
C6	31 Jul 2025	915	1	<2	<2	<2
C6	31 Jul 2025	915	3	<2	<2	<2
C6	31 Jul 2025	915	9	<2	<2	<2
C7	07 Jul 2025	828	1	<20	<2	<2
C7	07 Jul 2025	828	12	<20	<2	<2
C7	07 Jul 2025	828	18	<20	2e	<2
C7	15 Jul 2025	834	1	2e	<2	<2
C7	15 Jul 2025	834	12	<2	<2	<2
C7	15 Jul 2025	834	18	<2	<2	<2
C7	22 Jul 2025	835	1	<2	<2	<2
C7	22 Jul 2025	835	12	<2	<2	<2
C7	22 Jul 2025	835	18	<2	<2	<2
C7	31 Jul 2025	838	1	<2	<2	<2
C7	31 Jul 2025	838	12	<2	<2	<2
C7	31 Jul 2025	838	18	<2	<2	<2

Station	Date	Time	Depth	Total	Fecal	Entero
C8	07 Jul 2025	844	1	<20	2e	<2
C8	07 Jul 2025	844	12	<20	<2	<2
C8	07 Jul 2025	844	18	<20	<2	<2
C8	15 Jul 2025	844	1	2e	<2	<2
C8	15 Jul 2025	844	12	<2	<2	<2
C8	15 Jul 2025	844	18	2e	<2	<2
C8	22 Jul 2025	846	1	<2	<2	<2
C8	22 Jul 2025	846	12	<2	<2	<2
C8	22 Jul 2025	846	18	<2	<2	<2
C8	31 Jul 2025	852	1	2e	<2	<2
C8	31 Jul 2025	852	12	2e	<2	<2
C8	31 Jul 2025	852	18	18e	<2	<2

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	07 Jul 2025	Arrive Time	744
A1	07 Jul 2025	Depart Time	754
A1	07 Jul 2025	Air Temp (C)	17.5
A1	07 Jul 2025	Visibility (mi)	5
A1	07 Jul 2025	Wind Speed (kts)	9.4
A1	07 Jul 2025	Wind Dir	NW
A1	07 Jul 2025	Sea State	Regular Swell
A1	07 Jul 2025	High Tide Time	1936
A1	07 Jul 2025	Low Tide Time	230
A1	07 Jul 2025	Comments	
A1	15 Jul 2025	Arrive Time	752
A1	15 Jul 2025	Depart Time	759
A1	15 Jul 2025	Air Temp (C)	18.3
A1	15 Jul 2025	Visibility (mi)	6
A1	15 Jul 2025	Wind Speed (kts)	0.7
A1	15 Jul 2025	Wind Dir	SW
A1	15 Jul 2025	Sea State	Calm
A1	15 Jul 2025	High Tide Time	6
A1	15 Jul 2025	Low Tide Time	700
A1	15 Jul 2025	Comments	kelp
A1	22 Jul 2025	Arrive Time	740
A1	22 Jul 2025	Depart Time	750
A1	22 Jul 2025	Air Temp (C)	19.4
A1	22 Jul 2025	Visibility (mi)	0
A1	22 Jul 2025	Wind Speed (kts)	3.9
A1	22 Jul 2025	Wind Dir	W
A1	22 Jul 2025	Sea State	Light Chop
A1	22 Jul 2025	High Tide Time	2000
A1	22 Jul 2025	Low Tide Time	236
A1	22 Jul 2025	Comments	
A1	31 Jul 2025	Arrive Time	739
A1	31 Jul 2025	Depart Time	757
A1	31 Jul 2025	Air Temp (C)	18.8
A1	31 Jul 2025	Visibility (mi)	6
A1	31 Jul 2025	Wind Speed (kts)	0
A1	31 Jul 2025	Wind Dir	NW
A1	31 Jul 2025	Sea State	Calm
A1	31 Jul 2025	High Tide Time	1442
A1	31 Jul 2025	Low Tide Time	730
A1	31 Jul 2025	Comments	
C4	07 Jul 2025	Arrive Time	920
C4	07 Jul 2025	Depart Time	925
C4	07 Jul 2025	Air Temp (C)	18.4
C4	07 Jul 2025	Visibility (mi)	5
C4	07 Jul 2025	Wind Speed (kts)	1.3
C4	07 Jul 2025	Wind Dir	E
C4	07 Jul 2025	Sea State	Regular Swell
C4	07 Jul 2025	High Tide Time	1936
C4	07 Jul 2025	Low Tide Time	230
C4	07 Jul 2025	Comments	
C4	15 Jul 2025	Arrive Time	928

Station	Date	Parameter	Value
C4	15 Jul 2025	Depart Time	931
C4	15 Jul 2025	Air Temp (C)	18.6
C4	15 Jul 2025	Visibility (mi)	6
C4	15 Jul 2025	Wind Speed (kts)	5.6
C4	15 Jul 2025	Wind Dir	S
C4	15 Jul 2025	Sea State	Calm
C4	15 Jul 2025	High Tide Time	6
C4	15 Jul 2025	Low Tide Time	700
C4	15 Jul 2025	Comments	kelp
C4	22 Jul 2025	Arrive Time	928
C4	22 Jul 2025	Depart Time	931
C4	22 Jul 2025	Air Temp (C)	20.8
C4	22 Jul 2025	Visibility (mi)	8
C4	22 Jul 2025	Wind Speed (kts)	0.9
C4	22 Jul 2025	Wind Dir	NW
C4	22 Jul 2025	Sea State	Calm
C4	22 Jul 2025	High Tide Time	2000
C4	22 Jul 2025	Low Tide Time	236
C4	22 Jul 2025	Comments	
C4	31 Jul 2025	Arrive Time	938
C4	31 Jul 2025	Depart Time	942
C4	31 Jul 2025	Air Temp (C)	19
C4	31 Jul 2025	Visibility (mi)	6
C4	31 Jul 2025	Wind Speed (kts)	4.5
C4	31 Jul 2025	Wind Dir	NW
C4	31 Jul 2025	Sea State	Calm
C4	31 Jul 2025	High Tide Time	1442
C4	31 Jul 2025	Low Tide Time	730
C4	31 Jul 2025	Comments	
A7	07 Jul 2025	Arrive Time	801
A7	07 Jul 2025	Depart Time	808
A7	07 Jul 2025	Air Temp (C)	17.6
A7	07 Jul 2025	Visibility (mi)	5
A7	07 Jul 2025	Wind Speed (kts)	3.8
A7	07 Jul 2025	Wind Dir	SW
A7	07 Jul 2025	Sea State	Regular Swell
A7	07 Jul 2025	High Tide Time	1936
A7	07 Jul 2025	Low Tide Time	230
A7	07 Jul 2025	Comments	
A7	15 Jul 2025	Arrive Time	806
A7	15 Jul 2025	Depart Time	810
A7	15 Jul 2025	Air Temp (C)	18.4
A7	15 Jul 2025	Visibility (mi)	6
A7	15 Jul 2025	Wind Speed (kts)	1.8
A7	15 Jul 2025	Wind Dir	S
A7	15 Jul 2025	Sea State	Calm
A7	15 Jul 2025	High Tide Time	6
A7	15 Jul 2025	Low Tide Time	700
A7	15 Jul 2025	Comments	fishing boat on station; terns
A7	22 Jul 2025	Arrive Time	753
A7	22 Jul 2025	Depart Time	758
A7	22 Jul 2025	Air Temp (C)	19.7
A7	22 Jul 2025	Visibility (mi)	0
A7	22 Jul 2025	Wind Speed (kts)	2.7
A7	22 Jul 2025	Wind Dir	W
A7	22 Jul 2025	Sea State	Light Chop

Station	Date	Parameter	Value
A7	22 Jul 2025	High Tide Time	2000
A7	22 Jul 2025	Low Tide Time	236
A7	22 Jul 2025	Comments	
A7	31 Jul 2025	Arrive Time	804
A7	31 Jul 2025	Depart Time	816
A7	31 Jul 2025	Air Temp (C)	18.6
A7	31 Jul 2025	Visibility (mi)	6
A7	31 Jul 2025	Wind Speed (kts)	4.5
A7	31 Jul 2025	Wind Dir	W
A7	31 Jul 2025	Sea State	Calm
A7	31 Jul 2025	High Tide Time	1442
A7	31 Jul 2025	Low Tide Time	730
A7	31 Jul 2025	Comments	
C5	07 Jul 2025	Arrive Time	910
C5	07 Jul 2025	Depart Time	913
C5	07 Jul 2025	Air Temp (C)	18
C5	07 Jul 2025	Visibility (mi)	5
C5	07 Jul 2025	Wind Speed (kts)	5
C5	07 Jul 2025	Wind Dir	S
C5	07 Jul 2025	Sea State	Regular Swell
C5	07 Jul 2025	High Tide Time	1936
C5	07 Jul 2025	Low Tide Time	230
C5	07 Jul 2025	Comments	kelp on station
C5	15 Jul 2025	Arrive Time	916
C5	15 Jul 2025	Depart Time	921
C5	15 Jul 2025	Air Temp (C)	18.5
C5	15 Jul 2025	Visibility (mi)	6
C5	15 Jul 2025	Wind Speed (kts)	4.4
C5	15 Jul 2025	Wind Dir	S
C5	15 Jul 2025	Sea State	Calm
C5	15 Jul 2025	High Tide Time	6
C5	15 Jul 2025	Low Tide Time	700
C5	15 Jul 2025	Comments	kelp; dolphins
C5	22 Jul 2025	Arrive Time	918
C5	22 Jul 2025	Depart Time	922
C5	22 Jul 2025	Air Temp (C)	20.7
C5	22 Jul 2025	Visibility (mi)	8
C5	22 Jul 2025	Wind Speed (kts)	3.1
C5	22 Jul 2025	Wind Dir	W
C5	22 Jul 2025	Sea State	Calm
C5	22 Jul 2025	High Tide Time	2000
C5	22 Jul 2025	Low Tide Time	236
C5	22 Jul 2025	Comments	kelp
C5	31 Jul 2025	Arrive Time	925
C5	31 Jul 2025	Depart Time	930
C5	31 Jul 2025	Air Temp (C)	18.8
C5	31 Jul 2025	Visibility (mi)	6
C5	31 Jul 2025	Wind Speed (kts)	3.9
C5	31 Jul 2025	Wind Dir	NW
C5	31 Jul 2025	Sea State	Calm
C5	31 Jul 2025	High Tide Time	1442
C5	31 Jul 2025	Low Tide Time	730
C5	31 Jul 2025	Comments	kelp
A6	07 Jul 2025	Arrive Time	816
A6	07 Jul 2025	Depart Time	820

Station	Date	Parameter	Value
A6	07 Jul 2025	Air Temp (C)	17.7
A6	07 Jul 2025	Visibility (mi)	5
A6	07 Jul 2025	Wind Speed (kts)	2.8
A6	07 Jul 2025	Wind Dir	S
A6	07 Jul 2025	Sea State	Regular Swell
A6	07 Jul 2025	High Tide Time	1936
A6	07 Jul 2025	Low Tide Time	230
A6	07 Jul 2025	Comments	
A6	15 Jul 2025	Arrive Time	817
A6	15 Jul 2025	Depart Time	823
A6	15 Jul 2025	Air Temp (C)	18.3
A6	15 Jul 2025	Visibility (mi)	6
A6	15 Jul 2025	Wind Speed (kts)	3.4
A6	15 Jul 2025	Wind Dir	W
A6	15 Jul 2025	Sea State	Calm
A6	15 Jul 2025	High Tide Time	6
A6	15 Jul 2025	Low Tide Time	700
A6	15 Jul 2025	Comments	
A6	22 Jul 2025	Arrive Time	806
A6	22 Jul 2025	Depart Time	825
A6	22 Jul 2025	Air Temp (C)	19.8
A6	22 Jul 2025	Visibility (mi)	8
A6	22 Jul 2025	Wind Speed (kts)	2.4
A6	22 Jul 2025	Wind Dir	W
A6	22 Jul 2025	Sea State	Light Chop
A6	22 Jul 2025	High Tide Time	2000
A6	22 Jul 2025	Low Tide Time	236
A6	22 Jul 2025	Comments	
A6	31 Jul 2025	Arrive Time	822
A6	31 Jul 2025	Depart Time	830
A6	31 Jul 2025	Air Temp (C)	18.6
A6	31 Jul 2025	Visibility (mi)	6
A6	31 Jul 2025	Wind Speed (kts)	4.2
A6	31 Jul 2025	Wind Dir	NW
A6	31 Jul 2025	Sea State	Calm
A6	31 Jul 2025	High Tide Time	1442
A6	31 Jul 2025	Low Tide Time	730
A6	31 Jul 2025	Comments	kelp
C6	07 Jul 2025	Arrive Time	900
C6	07 Jul 2025	Depart Time	905
C6	07 Jul 2025	Air Temp (C)	18.1
C6	07 Jul 2025	Visibility (mi)	5
C6	07 Jul 2025	Wind Speed (kts)	4.1
C6	07 Jul 2025	Wind Dir	SE
C6	07 Jul 2025	Sea State	Regular Swell
C6	07 Jul 2025	High Tide Time	1936
C6	07 Jul 2025	Low Tide Time	230
C6	07 Jul 2025	Comments	
C6	15 Jul 2025	Arrive Time	906
C6	15 Jul 2025	Depart Time	911
C6	15 Jul 2025	Air Temp (C)	19.2
C6	15 Jul 2025	Visibility (mi)	6
C6	15 Jul 2025	Wind Speed (kts)	3.3
C6	15 Jul 2025	Wind Dir	S
C6	15 Jul 2025	Sea State	Calm
C6	15 Jul 2025	High Tide Time	6

Station	Date	Parameter	Value
C6	15 Jul 2025	Low Tide Time	700
C6	15 Jul 2025	Comments	kelp
C6	22 Jul 2025	Arrive Time	906
C6	22 Jul 2025	Depart Time	912
C6	22 Jul 2025	Air Temp (C)	20.8
C6	22 Jul 2025	Visibility (mi)	8
C6	22 Jul 2025	Wind Speed (kts)	0.4
C6	22 Jul 2025	Wind Dir	NW
C6	22 Jul 2025	Sea State	Calm
C6	22 Jul 2025	High Tide Time	2000
C6	22 Jul 2025	Low Tide Time	236
C6	22 Jul 2025	Comments	
C6	31 Jul 2025	Arrive Time	915
C6	31 Jul 2025	Depart Time	918
C6	31 Jul 2025	Air Temp (C)	18.9
C6	31 Jul 2025	Visibility (mi)	6
C6	31 Jul 2025	Wind Speed (kts)	3.8
C6	31 Jul 2025	Wind Dir	NW
C6	31 Jul 2025	Sea State	Calm
C6	31 Jul 2025	High Tide Time	1442
C6	31 Jul 2025	Low Tide Time	730
C6	31 Jul 2025	Comments	
C7	07 Jul 2025	Arrive Time	828
C7	07 Jul 2025	Depart Time	833
C7	07 Jul 2025	Air Temp (C)	17.9
C7	07 Jul 2025	Visibility (mi)	5
C7	07 Jul 2025	Wind Speed (kts)	2.9
C7	07 Jul 2025	Wind Dir	NW
C7	07 Jul 2025	Sea State	Regular Swell
C7	07 Jul 2025	High Tide Time	1936
C7	07 Jul 2025	Low Tide Time	230
C7	07 Jul 2025	Comments	
C7	15 Jul 2025	Arrive Time	834
C7	15 Jul 2025	Depart Time	837
C7	15 Jul 2025	Air Temp (C)	18.8
C7	15 Jul 2025	Visibility (mi)	6
C7	15 Jul 2025	Wind Speed (kts)	2.1
C7	15 Jul 2025	Wind Dir	W
C7	15 Jul 2025	Sea State	Calm
C7	15 Jul 2025	High Tide Time	6
C7	15 Jul 2025	Low Tide Time	700
C7	15 Jul 2025	Comments	
C7	22 Jul 2025	Arrive Time	835
C7	22 Jul 2025	Depart Time	839
C7	22 Jul 2025	Air Temp (C)	20.1
C7	22 Jul 2025	Visibility (mi)	8
C7	22 Jul 2025	Wind Speed (kts)	3.5
C7	22 Jul 2025	Wind Dir	W
C7	22 Jul 2025	Sea State	Light Chop
C7	22 Jul 2025	High Tide Time	2000
C7	22 Jul 2025	Low Tide Time	236
C7	22 Jul 2025	Comments	
C7	31 Jul 2025	Arrive Time	838
C7	31 Jul 2025	Depart Time	850
C7	31 Jul 2025	Air Temp (C)	18.8

Station	Date	Parameter	Value
C7	31 Jul 2025	Visibility (mi)	6
C7	31 Jul 2025	Wind Speed (kts)	2.6
C7	31 Jul 2025	Wind Dir	NW
C7	31 Jul 2025	Sea State	Calm
C7	31 Jul 2025	High Tide Time	1442
C7	31 Jul 2025	Low Tide Time	730
C7	31 Jul 2025	Comments	kelp
C8	07 Jul 2025	Arrive Time	844
C8	07 Jul 2025	Depart Time	847
C8	07 Jul 2025	Air Temp (C)	18.1
C8	07 Jul 2025	Visibility (mi)	5
C8	07 Jul 2025	Wind Speed (kts)	1.3
C8	07 Jul 2025	Wind Dir	NW
C8	07 Jul 2025	Sea State	Regular Swell
C8	07 Jul 2025	High Tide Time	1936
C8	07 Jul 2025	Low Tide Time	230
C8	07 Jul 2025	Comments	
C8	15 Jul 2025	Arrive Time	844
C8	15 Jul 2025	Depart Time	848
C8	15 Jul 2025	Air Temp (C)	18.5
C8	15 Jul 2025	Visibility (mi)	6
C8	15 Jul 2025	Wind Speed (kts)	3
C8	15 Jul 2025	Wind Dir	SW
C8	15 Jul 2025	Sea State	Calm
C8	15 Jul 2025	High Tide Time	6
C8	15 Jul 2025	Low Tide Time	700
C8	15 Jul 2025	Comments	
C8	22 Jul 2025	Arrive Time	846
C8	22 Jul 2025	Depart Time	850
C8	22 Jul 2025	Air Temp (C)	20
C8	22 Jul 2025	Visibility (mi)	8
C8	22 Jul 2025	Wind Speed (kts)	2.1
C8	22 Jul 2025	Wind Dir	W
C8	22 Jul 2025	Sea State	Light Chop
C8	22 Jul 2025	High Tide Time	2000
C8	22 Jul 2025	Low Tide Time	236
C8	22 Jul 2025	Comments	
C8	31 Jul 2025	Arrive Time	852
C8	31 Jul 2025	Depart Time	857
C8	31 Jul 2025	Air Temp (C)	19.1
C8	31 Jul 2025	Visibility (mi)	6
C8	31 Jul 2025	Wind Speed (kts)	3.6
C8	31 Jul 2025	Wind Dir	NW
C8	31 Jul 2025	Sea State	Calm
C8	31 Jul 2025	High Tide Time	1442
C8	31 Jul 2025	Low Tide Time	730
C8	31 Jul 2025	Comments	

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	07 Jul 2025	1	17.45	77.50	9.1	33.59	8.1	24.3	2.34
A1	07 Jul 2025	2	17.37	77.39	9.1	33.59	8.1	24.3	2.35
A1	07 Jul 2025	3	17.16	77.31	9.0	33.58	8.1	24.4	2.80
A1	07 Jul 2025	4	16.88	77.09	9.0	33.58	8.1	24.5	3.15
A1	07 Jul 2025	5	16.77	76.25	9.0	33.59	8.1	24.5	3.53
A1	07 Jul 2025	6	16.75	75.78	9.0	33.58	8.1	24.5	3.67
A1	07 Jul 2025	7	16.61	75.69	8.8	33.58	8.1	24.5	3.75
A1	07 Jul 2025	8	16.06	75.49	8.7	33.58	8.1	24.6	4.09
A1	07 Jul 2025	9	15.31	74.59	8.3	33.57	8.1	24.8	5.15
A1	07 Jul 2025	10	13.94	72.88	7.8	33.55	8.0	25.1	5.88
A1	07 Jul 2025	11	13.30	73.40	7.3	33.55	8.0	25.2	6.15
A1	07 Jul 2025	12	13.13	76.81	6.8	33.56	7.9	25.3	4.80
A1	07 Jul 2025	13	13.09	79.84	6.4	33.53	7.9	25.2	4.46
A1	07 Jul 2025	14	12.51	83.17	5.8	33.56	7.9	25.4	3.35
A1	07 Jul 2025	15	12.23	86.62	5.3	33.58	7.8	25.4	1.67
A1	07 Jul 2025	16	12.31	88.20	5.1	33.57	7.8	25.4	1.45
A1	07 Jul 2025	17	11.87	89.45	4.7	33.60	7.8	25.5	1.57
A1	07 Jul 2025	18	11.82	89.21	4.4	33.61	7.8	25.5	1.09
A1	07 Jul 2025	19	11.88	87.59	4.3	33.61	7.7	25.5	1.06
A1	15 Jul 2025	1	19.74	83.62	9.2	33.59	8.2	23.8	2.81
A1	15 Jul 2025	2	19.68	83.51	9.2	33.59	8.2	23.8	2.61
A1	15 Jul 2025	3	19.65	83.53	9.1	33.58	8.2	23.8	2.59
A1	15 Jul 2025	4	19.11	83.33	9.0	33.59	8.2	23.9	2.77
A1	15 Jul 2025	5	18.84	83.53	8.8	33.58	8.2	24.0	2.96
A1	15 Jul 2025	6	18.31	83.92	8.6	33.57	8.2	24.1	3.16
A1	15 Jul 2025	7	17.99	83.96	8.5	33.57	8.1	24.2	3.81
A1	15 Jul 2025	8	17.78	83.25	8.4	33.57	8.1	24.2	4.24
A1	15 Jul 2025	9	17.64	82.40	8.4	33.56	8.1	24.3	4.59
A1	15 Jul 2025	10	17.40	81.41	8.2	33.56	8.1	24.3	5.06
A1	15 Jul 2025	11	16.99	81.15	7.9	33.56	8.1	24.4	5.51
A1	15 Jul 2025	12	16.20	81.21	7.3	33.54	8.1	24.6	5.93
A1	15 Jul 2025	13	14.88	80.59	6.7	33.55	8.0	24.9	5.92
A1	15 Jul 2025	14	14.00	81.86	6.4	33.53	7.9	25.0	2.56
A1	15 Jul 2025	15	13.63	87.08	6.3	33.52	7.9	25.1	1.43
A1	15 Jul 2025	16	13.49	88.97	6.4	33.50	7.9	25.1	1.35
A1	15 Jul 2025	17	13.38	91.18	6.4	33.51	7.9	25.2	1.35
A1	15 Jul 2025	18	13.21	86.19	6.4	33.51	7.9	25.2	1.32
A1	22 Jul 2025	1	19.02	84.50	9.2	33.58	8.2	23.9	2.25
A1	22 Jul 2025	2	18.69	83.60	9.0	33.56	8.2	24.0	2.51
A1	22 Jul 2025	3	17.67	84.19	8.7	33.54	8.1	24.2	3.08
A1	22 Jul 2025	4	17.08	82.19	8.4	33.53	8.1	24.4	3.90
A1	22 Jul 2025	5	16.87	80.57	8.2	33.52	8.1	24.4	4.30
A1	22 Jul 2025	6	16.66	80.22	8.0	33.51	8.1	24.5	4.55
A1	22 Jul 2025	7	16.59	80.17	7.9	33.51	8.1	24.5	4.61
A1	22 Jul 2025	8	16.29	80.90	7.7	33.49	8.1	24.5	4.60
A1	22 Jul 2025	9	15.25	82.05	7.5	33.48	8.0	24.7	5.02
A1	22 Jul 2025	10	14.81	83.68	7.4	33.47	8.0	24.8	5.23
A1	22 Jul 2025	11	14.48	86.87	7.3	33.46	8.0	24.9	3.74
A1	22 Jul 2025	12	14.38	91.49	7.2	33.46	8.0	24.9	1.67
A1	22 Jul 2025	13	14.02	94.56	7.1	33.46	8.0	25.0	1.66
A1	22 Jul 2025	14	13.89	95.58	6.9	33.46	8.0	25.0	0.75
A1	22 Jul 2025	15	13.26	95.72	6.6	33.45	8.0	25.1	0.68
A1	22 Jul 2025	16	12.66	92.68	6.4	33.50	7.9	25.3	0.48
A1	22 Jul 2025	17	12.73	95.76	6.3	33.49	7.9	25.3	0.49
A1	22 Jul 2025	18	12.61	97.33	6.3	33.49	7.9	25.3	0.53
A1	22 Jul 2025	19	12.57	96.76	6.1	33.50	7.9	25.3	0.45
A1	22 Jul 2025	20	12.59	96.09	6.0	33.50	7.9	25.3	0.46
A1	31 Jul 2025	1	17.85	89.06	9.5	33.54	8.2	24.2	2.27
A1	31 Jul 2025	2	16.90	88.55	9.2	33.51	8.2	24.4	2.30
A1	31 Jul 2025	3	14.88	86.37	9.2	33.52	8.1	24.9	3.69
A1	31 Jul 2025	4	14.58	86.31	8.7	33.51	8.1	24.9	3.36
A1	31 Jul 2025	5	14.48	87.56	8.4	33.50	8.0	24.9	3.47
A1	31 Jul 2025	6	14.27	86.91	8.2	33.50	8.0	25.0	3.99
A1	31 Jul 2025	7	14.09	85.28	7.9	33.51	8.0	25.0	6.32
A1	31 Jul 2025	8	13.94	84.25	7.6	33.51	8.0	25.0	6.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A1	31 Jul 2025	9	13.71	83.37	7.3	33.51	8.0	25.1	7.48
A1	31 Jul 2025	10	13.47	83.60	7.0	33.52	8.0	25.2	6.78
A1	31 Jul 2025	11	13.24	85.14	6.6	33.54	7.9	25.2	4.99
A1	31 Jul 2025	12	12.94	88.97	6.3	33.53	7.9	25.3	5.05
A1	31 Jul 2025	13	12.50	90.91	5.9	33.54	7.9	25.4	2.73
A1	31 Jul 2025	14	12.33	92.08	5.7	33.55	7.8	25.4	2.69
A1	31 Jul 2025	15	12.26	92.88	5.5	33.55	7.8	25.4	0.78
A1	31 Jul 2025	16	12.04	93.87	5.3	33.55	7.8	25.5	1.43
A1	31 Jul 2025	17	11.84	93.81	5.0	33.57	7.8	25.5	5.52
A1	31 Jul 2025	18	11.91	92.63	4.9	33.56	7.8	25.5	3.87
C4	07 Jul 2025	1	17.33	78.17	9.2	33.59	8.1	24.4	1.20
C4	07 Jul 2025	2	17.06	74.74	9.2	33.59	8.1	24.4	1.29
C4	07 Jul 2025	3	16.94	76.10	9.2	33.59	8.1	24.4	1.83
C4	07 Jul 2025	4	16.89	75.89	9.1	33.59	8.1	24.5	2.24
C4	07 Jul 2025	5	16.72	75.93	9.0	33.58	8.1	24.5	2.62
C4	07 Jul 2025	6	16.30	75.52	8.5	33.59	8.1	24.6	3.29
C4	07 Jul 2025	7	15.92	74.51	8.2	33.59	8.1	24.7	3.08
C4	07 Jul 2025	8	15.64	74.48	7.9	33.58	8.1	24.7	3.60
C4	07 Jul 2025	9	14.78	74.76	7.0	33.58	8.0	24.9	3.95
C4	07 Jul 2025	10	13.75	68.72	5.6	33.59	7.8	25.1	1.15
C4	15 Jul 2025	1	19.78	82.59	9.4	33.59	8.2	23.7	2.78
C4	15 Jul 2025	2	19.77	82.38	9.4	33.59	8.2	23.7	2.73
C4	15 Jul 2025	3	19.73	82.76	9.4	33.59	8.2	23.8	2.86
C4	15 Jul 2025	4	19.53	82.66	9.2	33.59	8.2	23.8	2.79
C4	15 Jul 2025	5	19.17	83.17	8.8	33.59	8.2	23.9	2.73
C4	15 Jul 2025	6	18.99	84.19	8.4	33.59	8.2	23.9	2.47
C4	15 Jul 2025	7	18.89	84.19	8.3	33.59	8.1	24.0	2.75
C4	15 Jul 2025	8	18.74	83.94	8.2	33.58	8.1	24.0	2.87
C4	15 Jul 2025	9	18.36	83.55	7.8	33.58	8.1	24.1	2.45
C4	15 Jul 2025	10	17.42	83.95	7.2	33.59	8.0	24.3	1.15
C4	15 Jul 2025	11	18.26	81.86	7.6	33.56	8.0	24.1	1.73
C4	22 Jul 2025	1	20.29	86.71	9.6	33.60	8.3	23.6	1.89
C4	22 Jul 2025	2	20.29	86.58	9.5	33.60	8.3	23.6	1.89
C4	22 Jul 2025	3	19.78	86.53	9.4	33.59	8.3	23.7	2.39
C4	22 Jul 2025	4	18.93	85.45	8.7	33.56	8.2	23.9	2.94
C4	22 Jul 2025	5	18.21	83.39	8.0	33.56	8.1	24.1	5.90
C4	22 Jul 2025	6	17.94	79.23	7.4	33.55	8.1	24.2	8.91
C4	22 Jul 2025	7	17.42	77.54	7.0	33.53	8.1	24.3	6.39
C4	22 Jul 2025	8	17.18	80.83	6.6	33.54	8.0	24.4	3.18
C4	22 Jul 2025	9	17.02	83.77	5.9	33.54	8.0	24.4	1.36
C4	22 Jul 2025	10	16.63	85.47	5.3	33.53	7.9	24.5	0.50
C4	22 Jul 2025	11	16.43	86.58	4.9	33.53	7.9	24.5	0.34
C4	22 Jul 2025	12	16.45	82.58	4.8	33.53	7.9	24.5	0.52
C4	31 Jul 2025	1	18.44	85.40	8.7	33.53	8.2	24.0	0.58
C4	31 Jul 2025	2	17.98	87.96	8.4	33.56	8.2	24.2	0.80
C4	31 Jul 2025	3	16.90	87.65	7.8	33.55	8.1	24.4	1.53
C4	31 Jul 2025	4	15.56	85.23	7.3	33.55	8.1	24.7	3.57
C4	31 Jul 2025	5	14.01	87.09	6.5	33.55	7.9	25.1	2.61
C4	31 Jul 2025	6	13.90	91.01	6.1	33.52	7.9	25.1	1.95
C4	31 Jul 2025	7	12.93	89.71	5.9	33.54	7.9	25.3	2.15
C4	31 Jul 2025	8	12.93	87.60	5.7	33.53	7.9	25.3	2.65
C4	31 Jul 2025	9	12.54	86.42	5.6	33.54	7.8	25.4	1.77
C4	31 Jul 2025	10	12.52	85.61	5.5	33.54	7.8	25.4	0.93
C4	31 Jul 2025	11	12.50	84.09	5.4	33.55	7.8	25.4	0.87
A7	07 Jul 2025	1	17.47	77.60	9.0	33.59	8.1	24.3	2.51
A7	07 Jul 2025	2	17.34	77.49	9.0	33.59	8.1	24.4	2.76
A7	07 Jul 2025	3	17.07	76.75	9.1	33.59	8.1	24.4	3.17
A7	07 Jul 2025	4	16.99	76.61	9.1	33.59	8.1	24.4	3.20
A7	07 Jul 2025	5	16.96	76.88	9.1	33.59	8.1	24.4	3.26
A7	07 Jul 2025	6	16.79	76.62	9.1	33.59	8.1	24.5	3.32
A7	07 Jul 2025	7	16.62	76.84	8.8	33.59	8.1	24.5	3.57
A7	07 Jul 2025	8	15.20	76.69	8.5	33.62	8.1	24.9	4.17
A7	07 Jul 2025	9	14.43	75.14	8.3	33.59	8.1	25.0	6.45
A7	07 Jul 2025	10	14.24	74.56	8.0	33.58	8.0	25.0	6.41
A7	07 Jul 2025	11	13.08	75.41	7.4	33.59	8.0	25.3	6.70
A7	07 Jul 2025	12	12.76	79.25	6.3	33.60	7.9	25.4	3.71
A7	07 Jul 2025	13	12.55	85.88	5.7	33.60	7.9	25.4	2.15
A7	07 Jul 2025	14	12.29	88.71	5.4	33.60	7.8	25.4	1.93
A7	07 Jul 2025	15	12.28	89.97	5.2	33.60	7.8	25.4	1.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A7	07 Jul 2025	16	12.07	90.68	5.0	33.61	7.8	25.5	1.94
A7	07 Jul 2025	17	11.91	91.13	4.7	33.61	7.8	25.5	1.81
A7	07 Jul 2025	18	11.93	90.92	4.6	33.61	7.8	25.5	1.81
A7	15 Jul 2025	1	19.37	83.91	9.2	33.59	8.2	23.9	2.63
A7	15 Jul 2025	2	19.20	83.88	9.3	33.59	8.2	23.9	3.11
A7	15 Jul 2025	3	19.00	82.87	9.4	33.59	8.2	23.9	3.49
A7	15 Jul 2025	4	18.98	80.34	9.4	33.59	8.2	23.9	3.65
A7	15 Jul 2025	5	18.80	80.13	9.4	33.58	8.2	24.0	3.59
A7	15 Jul 2025	6	18.61	79.99	9.3	33.58	8.2	24.0	3.64
A7	15 Jul 2025	7	17.97	79.89	9.1	33.58	8.2	24.2	3.98
A7	15 Jul 2025	8	17.55	79.04	8.9	33.57	8.2	24.3	4.40
A7	15 Jul 2025	9	17.06	79.33	8.6	33.57	8.1	24.4	3.84
A7	15 Jul 2025	10	16.49	81.21	8.3	33.56	8.1	24.5	3.62
A7	15 Jul 2025	11	16.10	82.60	8.0	33.55	8.1	24.6	3.18
A7	15 Jul 2025	12	15.72	84.23	7.8	33.54	8.1	24.7	2.90
A7	15 Jul 2025	13	15.34	86.35	7.4	33.54	8.0	24.8	2.08
A7	15 Jul 2025	14	14.49	88.01	7.1	33.53	8.0	24.9	1.52
A7	15 Jul 2025	15	14.07	90.25	6.9	33.53	8.0	25.0	1.27
A7	15 Jul 2025	16	13.90	91.51	6.8	33.52	8.0	25.1	1.21
A7	15 Jul 2025	17	13.65	92.03	6.6	33.52	7.9	25.1	1.18
A7	15 Jul 2025	18	13.14	92.77	6.2	33.52	7.9	25.2	1.01
A7	22 Jul 2025	1	19.36	86.39	9.0	33.59	8.2	23.9	2.33
A7	22 Jul 2025	2	19.24	86.03	9.0	33.59	8.2	23.9	2.51
A7	22 Jul 2025	3	18.79	85.70	8.7	33.55	8.2	24.0	2.68
A7	22 Jul 2025	4	16.95	84.11	8.7	33.52	8.1	24.4	3.39
A7	22 Jul 2025	5	16.62	81.79	8.6	33.50	8.1	24.5	3.80
A7	22 Jul 2025	6	16.35	82.72	8.5	33.49	8.1	24.5	3.71
A7	22 Jul 2025	7	16.19	83.20	8.4	33.49	8.1	24.5	3.71
A7	22 Jul 2025	8	16.15	83.64	8.3	33.49	8.1	24.6	3.66
A7	22 Jul 2025	9	16.00	83.26	8.1	33.49	8.1	24.6	3.99
A7	22 Jul 2025	10	15.79	83.15	7.9	33.49	8.1	24.6	4.53
A7	22 Jul 2025	11	15.51	81.15	7.8	33.48	8.0	24.7	7.78
A7	22 Jul 2025	12	15.18	81.75	7.7	33.47	8.0	24.8	7.38
A7	22 Jul 2025	13	14.96	84.12	7.6	33.47	8.0	24.8	5.55
A7	22 Jul 2025	14	14.87	87.29	7.6	33.47	8.0	24.8	4.33
A7	22 Jul 2025	15	14.75	88.75	7.5	33.47	8.0	24.8	3.65
A7	22 Jul 2025	16	14.57	90.00	7.3	33.48	8.0	24.9	1.89
A7	22 Jul 2025	17	14.35	93.42	7.2	33.47	8.0	24.9	1.21
A7	22 Jul 2025	18	14.03	94.19	7.1	33.48	8.0	25.0	0.80
A7	22 Jul 2025	19	13.97	94.55	6.8	33.49	8.0	25.0	0.78
A7	31 Jul 2025	1	18.92	93.46	9.3	33.56	8.2	23.9	0.82
A7	31 Jul 2025	2	18.95	93.53	9.3	33.56	8.2	23.9	0.79
A7	31 Jul 2025	3	18.82	93.47	9.2	33.56	8.2	24.0	0.77
A7	31 Jul 2025	4	17.88	93.26	9.3	33.52	8.2	24.2	0.97
A7	31 Jul 2025	5	15.91	92.41	9.8	33.54	8.2	24.6	2.64
A7	31 Jul 2025	6	15.44	89.59	9.7	33.50	8.2	24.7	4.07
A7	31 Jul 2025	7	15.31	87.05	9.5	33.51	8.1	24.8	3.73
A7	31 Jul 2025	8	14.92	87.21	9.1	33.48	8.1	24.8	3.53
A7	31 Jul 2025	9	14.40	87.91	8.6	33.50	8.1	24.9	2.85
A7	31 Jul 2025	10	14.39	88.80	8.3	33.49	8.1	24.9	2.79
A7	31 Jul 2025	11	13.98	88.59	8.0	33.49	8.0	25.0	3.25
A7	31 Jul 2025	12	13.62	87.54	7.7	33.51	8.0	25.1	6.08
A7	31 Jul 2025	13	13.48	84.62	7.3	33.51	8.0	25.1	9.54
A7	31 Jul 2025	14	12.93	81.48	6.9	33.52	8.0	25.3	11.08
A7	31 Jul 2025	15	12.70	85.25	6.4	33.52	7.9	25.3	5.70
A7	31 Jul 2025	16	12.50	90.16	6.1	33.53	7.9	25.4	3.03
A7	31 Jul 2025	17	12.04	92.38	5.7	33.54	7.8	25.4	1.53
A7	31 Jul 2025	18	11.77	94.87	5.2	33.56	7.8	25.5	0.78
A7	31 Jul 2025	19	12.05	95.57	5.3	33.55	7.8	25.5	1.64
C5	07 Jul 2025	1	17.79	75.52	8.9	33.60	8.2	24.3	1.49
C5	07 Jul 2025	2	17.51	75.91	9.1	33.60	8.2	24.3	1.70
C5	07 Jul 2025	3	17.15	77.30	9.2	33.59	8.1	24.4	2.30
C5	07 Jul 2025	4	17.01	77.17	9.1	33.59	8.1	24.4	3.02
C5	07 Jul 2025	5	16.88	76.85	9.0	33.59	8.1	24.5	3.51
C5	07 Jul 2025	6	16.62	75.90	8.9	33.59	8.1	24.5	5.07
C5	07 Jul 2025	7	16.49	73.78	8.7	33.59	8.1	24.6	5.69
C5	07 Jul 2025	8	16.11	74.03	8.1	33.57	8.1	24.6	5.52
C5	07 Jul 2025	9	14.79	77.09	7.3	33.59	8.0	24.9	2.71
C5	15 Jul 2025	1	19.30	84.18	9.3	33.59	8.2	23.9	2.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C5	15 Jul 2025	2	19.26	84.01	9.3	33.59	8.2	23.9	2.67
C5	15 Jul 2025	3	19.18	83.98	9.4	33.59	8.2	23.9	2.94
C5	15 Jul 2025	4	19.16	83.45	9.4	33.59	8.2	23.9	3.10
C5	15 Jul 2025	5	19.10	83.07	9.4	33.59	8.2	23.9	3.13
C5	15 Jul 2025	6	19.07	83.06	9.4	33.59	8.2	23.9	3.12
C5	15 Jul 2025	7	19.00	83.34	9.4	33.59	8.2	23.9	3.21
C5	15 Jul 2025	8	18.91	82.72	9.4	33.58	8.2	24.0	3.51
C5	15 Jul 2025	9	18.69	81.57	8.9	33.57	8.2	24.0	3.46
C5	15 Jul 2025	10	16.53	83.85	7.5	33.56	8.0	24.5	1.41
C5	22 Jul 2025	1	20.52	88.72	8.7	33.62	8.2	23.6	1.37
C5	22 Jul 2025	2	20.52	88.78	8.6	33.62	8.2	23.6	1.48
C5	22 Jul 2025	3	20.14	88.84	8.4	33.60	8.2	23.7	1.53
C5	22 Jul 2025	4	18.60	86.11	8.1	33.59	8.2	24.0	1.65
C5	22 Jul 2025	5	17.43	88.22	8.0	33.54	8.1	24.3	2.01
C5	22 Jul 2025	6	16.18	87.89	7.9	33.51	8.1	24.6	3.02
C5	22 Jul 2025	7	15.81	85.41	7.8	33.49	8.1	24.6	5.43
C5	22 Jul 2025	8	15.55	84.29	7.6	33.48	8.0	24.7	3.99
C5	22 Jul 2025	9	15.53	87.71	7.6	33.48	8.0	24.7	2.37
C5	22 Jul 2025	10	15.50	89.38	7.4	33.48	8.0	24.7	2.19
C5	22 Jul 2025	11	15.69	90.59	7.5	33.49	8.0	24.7	1.94
C5	31 Jul 2025	1	18.82	90.75	9.3	33.57	8.2	24.0	0.67
C5	31 Jul 2025	2	18.80	90.72	9.2	33.57	8.2	24.0	0.63
C5	31 Jul 2025	3	18.06	90.89	9.5	33.54	8.2	24.1	1.00
C5	31 Jul 2025	4	17.18	88.06	10.0	33.54	8.2	24.4	3.96
C5	31 Jul 2025	5	16.37	82.95	10.1	33.51	8.2	24.5	6.64
C5	31 Jul 2025	6	15.33	77.11	9.5	33.51	8.2	24.8	8.87
C5	31 Jul 2025	7	14.33	77.86	8.4	33.51	8.1	25.0	9.06
C5	31 Jul 2025	8	13.35	88.25	7.3	33.51	8.0	25.2	2.81
C5	31 Jul 2025	9	12.35	92.39	6.3	33.53	7.9	25.4	0.41
C5	31 Jul 2025	10	12.26	90.49	5.7	33.53	7.9	25.4	0.48
A6	07 Jul 2025	1	17.57	77.32	9.2	33.60	8.2	24.3	2.73
A6	07 Jul 2025	2	17.11	76.68	9.0	33.59	8.2	24.4	3.04
A6	07 Jul 2025	3	16.07	76.06	8.9	33.58	8.1	24.6	4.11
A6	07 Jul 2025	4	15.72	74.67	8.7	33.58	8.1	24.7	5.50
A6	07 Jul 2025	5	15.66	73.45	8.4	33.57	8.1	24.7	6.34
A6	07 Jul 2025	6	15.14	72.94	8.0	33.54	8.1	24.8	6.58
A6	07 Jul 2025	7	14.24	73.53	7.5	33.58	8.0	25.0	5.38
A6	07 Jul 2025	8	13.77	77.71	6.9	33.59	8.0	25.1	3.66
A6	07 Jul 2025	9	13.37	80.82	6.4	33.58	7.9	25.2	2.78
A6	07 Jul 2025	10	12.97	84.85	6.0	33.59	7.9	25.3	2.25
A6	07 Jul 2025	11	12.85	87.47	5.8	33.58	7.9	25.3	1.80
A6	07 Jul 2025	12	12.59	88.79	5.6	33.59	7.9	25.4	1.74
A6	07 Jul 2025	13	12.40	89.62	5.3	33.59	7.8	25.4	1.52
A6	07 Jul 2025	14	12.24	90.43	5.1	33.60	7.8	25.5	1.45
A6	07 Jul 2025	15	12.15	90.88	4.9	33.60	7.8	25.5	1.52
A6	07 Jul 2025	16	12.11	91.29	4.8	33.60	7.8	25.5	1.26
A6	07 Jul 2025	17	12.07	91.40	4.7	33.61	7.8	25.5	1.20
A6	07 Jul 2025	18	12.09	91.11	4.6	33.61	7.8	25.5	1.31
A6	15 Jul 2025	1	19.23	85.47	9.1	33.59	8.2	23.9	2.78
A6	15 Jul 2025	2	19.23	85.41	9.1	33.59	8.2	23.9	2.77
A6	15 Jul 2025	3	19.21	85.41	9.1	33.59	8.2	23.9	2.77
A6	15 Jul 2025	4	19.13	85.20	9.1	33.59	8.2	23.9	3.11
A6	15 Jul 2025	5	19.08	84.90	9.0	33.58	8.2	23.9	3.11
A6	15 Jul 2025	6	18.85	84.76	8.9	33.58	8.2	24.0	3.10
A6	15 Jul 2025	7	18.51	84.81	8.9	33.58	8.2	24.1	3.29
A6	15 Jul 2025	8	18.20	84.77	8.8	33.57	8.2	24.1	3.56
A6	15 Jul 2025	9	17.56	84.04	8.7	33.57	8.1	24.3	3.93
A6	15 Jul 2025	10	16.96	82.68	8.4	33.56	8.1	24.4	4.26
A6	15 Jul 2025	11	16.32	83.28	8.2	33.55	8.1	24.6	3.61
A6	15 Jul 2025	12	16.16	85.17	7.9	33.55	8.1	24.6	2.84
A6	15 Jul 2025	13	15.65	86.56	7.7	33.54	8.1	24.7	2.55
A6	15 Jul 2025	14	15.32	88.25	7.3	33.52	8.0	24.8	1.81
A6	15 Jul 2025	15	13.90	91.64	6.9	33.52	8.0	25.1	1.14
A6	15 Jul 2025	16	13.88	93.10	6.8	33.51	8.0	25.1	0.93
A6	15 Jul 2025	17	13.68	93.52	6.7	33.51	7.9	25.1	0.88
A6	15 Jul 2025	18	13.83	93.20	6.6	33.52	7.9	25.1	0.97
A6	22 Jul 2025	1	20.45	88.22	9.2	33.62	8.3	23.6	1.88
A6	22 Jul 2025	2	20.45	88.54	9.2	33.62	8.3	23.6	1.89
A6	22 Jul 2025	3	20.45	88.37	9.2	33.62	8.3	23.6	1.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
A6	22 Jul 2025	4	20.45	88.71	9.2	33.62	8.3	23.6	1.99
A6	22 Jul 2025	5	20.45	88.38	9.2	33.62	8.3	23.6	2.01
A6	22 Jul 2025	6	20.45	88.35	9.2	33.62	8.3	23.6	1.95
A6	22 Jul 2025	7	20.45	88.41	9.2	33.62	8.3	23.6	1.94
A6	22 Jul 2025	8	20.45	88.85	9.2	33.62	8.3	23.6	2.08
A6	22 Jul 2025	9	20.44	88.62	9.2	33.62	8.3	23.6	2.05
A6	22 Jul 2025	10	20.42	88.48	9.2	33.62	8.3	23.6	2.04
A6	22 Jul 2025	11	20.36	88.60	9.2	33.62	8.3	23.6	2.22
A6	22 Jul 2025	12	20.31	88.31	9.2	33.62	8.2	23.6	2.40
A6	22 Jul 2025	13	20.25	88.13	9.1	33.61	8.2	23.6	2.47
A6	22 Jul 2025	14	19.77	87.64	8.9	33.58	8.2	23.7	2.75
A6	22 Jul 2025	15	18.23	86.98	8.8	33.57	8.2	24.1	3.19
A6	22 Jul 2025	16	17.06	86.03	8.4	33.58	8.1	24.4	4.20
A6	22 Jul 2025	17	16.48	84.59	8.0	33.79	8.1	24.7	5.47
A6	22 Jul 2025	19	16.00	83.42	8.3	33.77	8.0	24.8	6.24
A6	31 Jul 2025	1	18.89	92.60	9.4	33.56	8.2	23.9	0.86
A6	31 Jul 2025	2	18.77	92.83	9.4	33.55	8.2	24.0	0.84
A6	31 Jul 2025	3	18.08	92.77	9.8	33.55	8.2	24.1	1.51
A6	31 Jul 2025	4	17.71	91.76	9.7	33.52	8.2	24.2	2.99
A6	31 Jul 2025	5	16.07	87.49	9.7	33.51	8.2	24.6	3.97
A6	31 Jul 2025	6	15.47	85.43	9.5	33.51	8.1	24.7	4.65
A6	31 Jul 2025	7	15.17	85.93	9.3	33.51	8.1	24.8	3.95
A6	31 Jul 2025	8	15.05	86.97	9.1	33.50	8.1	24.8	3.54
A6	31 Jul 2025	9	14.98	87.67	8.9	33.50	8.1	24.8	3.36
A6	31 Jul 2025	10	14.80	87.43	8.4	33.52	8.1	24.9	3.31
A6	31 Jul 2025	11	14.86	86.63	8.2	33.58	8.1	24.9	4.38
A6	31 Jul 2025	12	14.45	87.00	8.4	33.73	8.1	25.1	7.06
A6	31 Jul 2025	13	14.16	87.38	8.1	33.52	8.0	25.0	4.77
A6	31 Jul 2025	14	14.08	88.17	7.7	33.62	8.0	25.1	3.78
A6	31 Jul 2025	15	13.74	89.05	7.6	33.60	8.0	25.2	3.08
A6	31 Jul 2025	16	13.40	88.80	7.1	33.55	8.0	25.2	3.02
A6	31 Jul 2025	17	13.37	91.12	6.9	33.69	7.9	25.3	2.53
A6	31 Jul 2025	18	12.74	92.25	6.5	33.64	7.9	25.4	1.80
A6	31 Jul 2025	19	12.39	92.94	5.9	33.53	7.9	25.4	1.81
A6	31 Jul 2025	20	12.27	93.51	5.8	33.54	7.8	25.4	1.43
C6	07 Jul 2025	1	17.10	75.55	9.2	33.58	8.1	24.4	2.14
C6	07 Jul 2025	2	16.96	75.51	9.2	33.59	8.1	24.4	2.27
C6	07 Jul 2025	3	16.80	75.52	9.2	33.59	8.1	24.5	3.08
C6	07 Jul 2025	4	16.49	75.36	9.1	33.59	8.1	24.5	3.54
C6	07 Jul 2025	5	16.40	74.86	9.1	33.58	8.1	24.6	4.27
C6	07 Jul 2025	6	16.21	74.55	9.0	33.58	8.1	24.6	4.81
C6	07 Jul 2025	7	15.97	73.84	8.8	33.59	8.1	24.7	6.06
C6	07 Jul 2025	8	15.67	74.03	8.1	33.56	8.1	24.7	5.85
C6	07 Jul 2025	9	13.78	78.68	7.0	33.60	8.0	25.2	2.13
C6	07 Jul 2025	10	14.75	82.62	7.1	33.55	7.9	24.9	1.46
C6	15 Jul 2025	1	19.42	85.99	9.0	33.59	8.2	23.8	2.01
C6	15 Jul 2025	2	19.41	85.99	9.0	33.59	8.2	23.8	2.05
C6	15 Jul 2025	3	19.39	85.79	9.0	33.59	8.2	23.8	2.29
C6	15 Jul 2025	4	19.21	85.68	9.0	33.59	8.2	23.9	2.38
C6	15 Jul 2025	5	19.16	86.26	8.9	33.58	8.2	23.9	2.24
C6	15 Jul 2025	6	18.91	86.68	8.6	33.59	8.2	24.0	2.00
C6	15 Jul 2025	7	18.72	87.38	8.3	33.58	8.1	24.0	1.60
C6	15 Jul 2025	8	18.15	88.48	7.9	33.57	8.1	24.1	1.41
C6	15 Jul 2025	9	17.45	89.32	7.6	33.57	8.0	24.3	1.04
C6	22 Jul 2025	1	20.45	87.85	9.1	33.62	8.2	23.6	1.82
C6	22 Jul 2025	2	20.45	87.50	9.1	33.62	8.2	23.6	1.84
C6	22 Jul 2025	3	20.40	88.09	9.1	33.62	8.2	23.6	1.93
C6	22 Jul 2025	4	20.36	88.11	9.1	33.62	8.2	23.6	1.90
C6	22 Jul 2025	5	20.29	88.24	9.1	33.61	8.2	23.6	1.91
C6	22 Jul 2025	6	19.99	88.14	8.9	33.60	8.2	23.7	2.01
C6	22 Jul 2025	7	19.16	87.78	8.8	33.56	8.2	23.9	2.09
C6	22 Jul 2025	8	17.94	87.37	8.5	33.55	8.2	24.2	1.95
C6	22 Jul 2025	9	16.67	87.86	8.0	33.52	8.1	24.5	1.11
C6	22 Jul 2025	10	15.58	90.34	7.8	33.50	8.1	24.7	0.50
C6	22 Jul 2025	11	15.56	91.92	7.7	33.49	8.1	24.7	0.61
C6	31 Jul 2025	1	18.51	91.83	9.3	33.53	8.2	24.0	0.89
C6	31 Jul 2025	2	18.52	89.03	9.2	33.54	8.2	24.0	0.89
C6	31 Jul 2025	3	17.99	91.19	9.2	33.50	8.2	24.1	0.89
C6	31 Jul 2025	4	16.90	91.08	9.6	33.53	8.2	24.4	1.42

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C6	31 Jul 2025	5	16.38	89.70	9.4	33.50	8.2	24.5	2.13
C6	31 Jul 2025	6	15.10	84.89	9.2	33.50	8.1	24.8	6.54
C6	31 Jul 2025	7	14.23	76.00	8.6	33.50	8.1	25.0	11.25
C6	31 Jul 2025	8	13.66	81.64	7.6	33.47	8.0	25.1	5.89
C6	31 Jul 2025	9	12.99	89.77	6.7	33.51	7.9	25.2	1.02
C7	07 Jul 2025	1	17.83	77.68	9.5	33.59	8.2	24.2	2.98
C7	07 Jul 2025	2	17.80	77.38	9.5	33.59	8.2	24.2	3.04
C7	07 Jul 2025	3	17.40	76.48	9.4	33.58	8.2	24.3	4.20
C7	07 Jul 2025	4	17.24	75.27	9.2	33.57	8.2	24.4	5.41
C7	07 Jul 2025	5	16.20	74.19	9.1	33.56	8.2	24.6	5.43
C7	07 Jul 2025	6	15.09	74.19	9.2	33.58	8.1	24.9	5.74
C7	07 Jul 2025	7	14.75	74.18	8.9	33.56	8.1	24.9	6.69
C7	07 Jul 2025	8	14.25	73.33	8.4	33.56	8.1	25.0	7.86
C7	07 Jul 2025	9	14.11	71.07	7.8	33.58	8.0	25.1	8.81
C7	07 Jul 2025	10	13.97	72.67	7.4	33.57	8.0	25.1	6.94
C7	07 Jul 2025	11	13.49	79.04	7.0	33.57	8.0	25.2	4.96
C7	07 Jul 2025	12	13.10	82.06	6.5	33.58	7.9	25.3	3.71
C7	07 Jul 2025	13	12.99	85.44	6.1	33.59	7.9	25.3	1.98
C7	07 Jul 2025	14	12.63	89.21	5.6	33.59	7.9	25.4	1.73
C7	07 Jul 2025	15	12.33	91.04	5.1	33.60	7.8	25.4	0.95
C7	07 Jul 2025	16	12.02	92.13	4.7	33.61	7.8	25.5	0.67
C7	07 Jul 2025	17	11.77	92.56	4.4	33.62	7.8	25.6	0.94
C7	07 Jul 2025	18	11.73	92.48	4.2	33.62	7.7	25.6	0.90
C7	07 Jul 2025	19	11.80	92.33	4.2	33.62	7.7	25.6	0.92
C7	15 Jul 2025	1	19.33	86.03	9.0	33.58	8.2	23.9	2.38
C7	15 Jul 2025	2	19.22	86.16	9.1	33.59	8.2	23.9	2.51
C7	15 Jul 2025	3	19.21	86.07	9.0	33.58	8.2	23.9	2.64
C7	15 Jul 2025	4	19.10	85.99	9.0	33.58	8.2	23.9	2.73
C7	15 Jul 2025	5	18.82	86.08	9.1	33.58	8.2	24.0	2.84
C7	15 Jul 2025	6	18.72	85.81	9.0	33.57	8.2	24.0	2.88
C7	15 Jul 2025	7	18.32	85.43	8.9	33.57	8.2	24.1	3.08
C7	15 Jul 2025	8	18.09	85.20	8.8	33.57	8.2	24.2	3.26
C7	15 Jul 2025	9	17.08	85.15	8.7	33.56	8.1	24.4	3.81
C7	15 Jul 2025	10	16.78	82.86	8.6	33.56	8.1	24.5	4.91
C7	15 Jul 2025	11	16.62	82.32	8.5	33.55	8.1	24.5	4.57
C7	15 Jul 2025	12	16.46	83.65	8.4	33.55	8.1	24.5	3.73
C7	15 Jul 2025	13	16.43	84.80	8.4	33.55	8.1	24.5	3.56
C7	15 Jul 2025	14	16.33	84.85	8.4	33.55	8.1	24.6	3.29
C7	15 Jul 2025	15	16.13	85.57	8.1	33.55	8.1	24.6	2.70
C7	15 Jul 2025	16	15.65	89.14	7.6	33.56	8.0	24.7	1.46
C7	15 Jul 2025	17	14.76	91.72	7.1	33.54	8.0	24.9	1.08
C7	15 Jul 2025	18	13.64	92.41	6.7	33.52	8.0	25.1	0.62
C7	22 Jul 2025	1	20.58	88.46	9.3	33.63	8.3	23.6	1.48
C7	22 Jul 2025	2	20.57	88.41	9.3	33.63	8.3	23.6	1.64
C7	22 Jul 2025	3	20.53	88.12	9.2	33.62	8.3	23.6	1.87
C7	22 Jul 2025	4	20.09	88.19	9.3	33.60	8.3	23.7	2.08
C7	22 Jul 2025	5	19.71	87.67	9.4	33.59	8.2	23.8	2.54
C7	22 Jul 2025	6	19.44	86.73	9.4	33.57	8.2	23.8	2.96
C7	22 Jul 2025	7	19.21	86.09	9.4	33.57	8.2	23.9	2.86
C7	22 Jul 2025	8	19.17	86.85	9.4	33.57	8.2	23.9	2.56
C7	22 Jul 2025	9	18.93	86.81	9.2	33.56	8.2	23.9	2.68
C7	22 Jul 2025	10	18.55	86.48	8.9	33.55	8.2	24.0	2.91
C7	22 Jul 2025	11	17.80	86.41	8.5	33.55	8.2	24.2	3.55
C7	22 Jul 2025	12	16.93	84.95	8.3	33.52	8.1	24.4	5.04
C7	22 Jul 2025	13	16.23	83.84	8.1	33.51	8.1	24.6	4.26
C7	22 Jul 2025	14	16.03	87.62	7.8	33.50	8.1	24.6	2.36
C7	22 Jul 2025	15	15.48	89.97	7.6	33.48	8.1	24.7	1.73
C7	22 Jul 2025	16	14.80	91.49	7.4	33.48	8.0	24.8	1.09
C7	22 Jul 2025	17	14.34	93.91	7.3	33.47	8.0	24.9	0.72
C7	22 Jul 2025	18	14.38	94.76	7.2	33.47	8.0	24.9	0.66
C7	31 Jul 2025	1	19.14	87.96	9.3	33.57	8.2	23.9	0.84
C7	31 Jul 2025	2	19.14	89.43	9.4	33.57	8.2	23.9	0.84
C7	31 Jul 2025	3	19.09	90.87	9.3	33.56	8.2	23.9	0.88
C7	31 Jul 2025	4	18.62	89.99	9.6	33.55	8.2	24.0	1.02
C7	31 Jul 2025	5	17.68	90.35	10.2	33.53	8.2	24.2	1.75
C7	31 Jul 2025	6	16.50	87.48	10.6	33.52	8.2	24.5	4.56
C7	31 Jul 2025	7	15.97	86.40	10.3	33.51	8.2	24.6	5.07
C7	31 Jul 2025	8	15.39	85.41	9.8	33.51	8.2	24.7	4.42
C7	31 Jul 2025	9	15.25	86.91	9.4	33.51	8.1	24.8	3.55
C7	31 Jul 2025	10	15.01	87.40	9.0	33.48	8.1	24.8	3.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C7	31 Jul 2025	11	14.52	87.53	8.8	33.51	8.1	24.9	3.77
C7	31 Jul 2025	12	14.72	87.28	8.5	33.49	8.1	24.9	4.18
C7	31 Jul 2025	13	13.91	86.76	8.0	33.49	8.1	25.0	4.82
C7	31 Jul 2025	14	13.24	85.07	7.4	33.51	8.0	25.2	7.23
C7	31 Jul 2025	15	12.89	82.88	6.9	33.51	8.0	25.3	9.09
C7	31 Jul 2025	16	12.52	80.48	6.5	33.53	7.9	25.3	10.77
C7	31 Jul 2025	17	12.30	88.61	6.0	33.51	7.9	25.4	10.04
C7	31 Jul 2025	18	11.92	91.73	5.3	33.55	7.8	25.5	1.49
C8	07 Jul 2025	1	17.66	81.90	8.9	33.58	8.2	24.3	1.61
C8	07 Jul 2025	2	17.33	80.73	8.9	33.59	8.2	24.4	1.93
C8	07 Jul 2025	3	17.07	78.57	8.9	33.59	8.1	24.4	2.91
C8	07 Jul 2025	4	16.99	78.03	8.8	33.58	8.1	24.4	3.31
C8	07 Jul 2025	5	16.80	77.33	8.7	33.58	8.1	24.5	3.98
C8	07 Jul 2025	6	16.26	76.22	8.7	33.58	8.1	24.6	4.84
C8	07 Jul 2025	7	15.85	74.45	8.4	33.58	8.1	24.7	6.31
C8	07 Jul 2025	8	15.01	72.26	8.3	33.58	8.1	24.9	7.15
C8	07 Jul 2025	9	14.56	72.09	8.5	33.57	8.1	25.0	7.76
C8	07 Jul 2025	10	14.23	72.38	8.6	33.56	8.1	25.0	7.32
C8	07 Jul 2025	11	13.80	73.20	8.4	33.56	8.1	25.1	7.39
C8	07 Jul 2025	12	13.33	73.80	7.7	33.56	8.0	25.2	7.63
C8	07 Jul 2025	13	12.67	77.48	6.7	33.57	8.0	25.4	6.22
C8	07 Jul 2025	14	12.32	84.50	5.9	33.59	7.9	25.4	2.70
C8	07 Jul 2025	15	12.10	90.43	5.3	33.60	7.8	25.5	1.85
C8	07 Jul 2025	16	12.00	92.04	4.9	33.59	7.8	25.5	1.19
C8	07 Jul 2025	17	11.98	91.34	4.8	33.59	7.8	25.5	0.92
C8	07 Jul 2025	18	11.95	90.96	4.8	33.59	7.8	25.5	0.90
C8	07 Jul 2025	19	11.99	90.45	4.8	33.60	7.8	25.5	1.16
C8	15 Jul 2025	1	19.53	86.72	9.1	33.58	8.2	23.8	2.25
C8	15 Jul 2025	2	19.06	86.50	9.2	33.58	8.2	23.9	2.40
C8	15 Jul 2025	3	18.53	86.22	9.3	33.57	8.2	24.0	2.97
C8	15 Jul 2025	4	18.02	85.45	9.2	33.57	8.2	24.2	3.54
C8	15 Jul 2025	5	17.88	84.11	9.1	33.56	8.2	24.2	3.81
C8	15 Jul 2025	6	17.52	83.51	9.0	33.55	8.2	24.3	3.70
C8	15 Jul 2025	7	17.41	83.51	8.9	33.55	8.1	24.3	4.26
C8	15 Jul 2025	8	16.91	82.76	8.7	33.55	8.1	24.4	4.44
C8	15 Jul 2025	9	16.55	81.85	8.6	33.55	8.1	24.5	5.10
C8	15 Jul 2025	10	16.19	82.01	8.4	33.54	8.1	24.6	5.46
C8	15 Jul 2025	11	15.95	81.50	8.4	33.55	8.1	24.6	5.74
C8	15 Jul 2025	12	15.89	82.04	8.3	33.54	8.1	24.7	5.24
C8	15 Jul 2025	13	15.82	83.61	8.2	33.54	8.1	24.7	4.68
C8	15 Jul 2025	14	15.78	84.39	8.2	33.54	8.1	24.7	4.22
C8	15 Jul 2025	15	15.75	85.21	8.2	33.54	8.1	24.7	3.39
C8	15 Jul 2025	16	15.63	86.05	7.9	33.54	8.1	24.7	2.98
C8	15 Jul 2025	17	14.66	87.27	7.2	33.53	8.0	24.9	1.97
C8	15 Jul 2025	18	12.96	90.73	6.6	33.53	7.9	25.3	0.84
C8	15 Jul 2025	19	13.22	91.61	6.4	33.51	7.9	25.2	0.97
C8	22 Jul 2025	1	20.71	87.41	9.3	33.63	8.3	23.5	1.72
C8	22 Jul 2025	2	20.69	87.54	9.3	33.63	8.3	23.5	1.80
C8	22 Jul 2025	3	20.65	87.55	9.3	33.63	8.3	23.5	2.13
C8	22 Jul 2025	4	20.50	87.50	9.2	33.62	8.3	23.6	2.20
C8	22 Jul 2025	5	19.87	87.13	9.3	33.59	8.2	23.7	2.74
C8	22 Jul 2025	6	19.24	85.93	9.3	33.57	8.2	23.9	2.65
C8	22 Jul 2025	7	18.46	86.57	9.2	33.55	8.2	24.0	2.39
C8	22 Jul 2025	8	17.95	86.33	9.1	33.54	8.2	24.2	2.75
C8	22 Jul 2025	9	17.74	84.87	9.2	33.53	8.2	24.2	3.52
C8	22 Jul 2025	10	17.58	83.74	8.9	33.53	8.2	24.2	3.29
C8	22 Jul 2025	11	17.09	84.27	8.4	33.52	8.1	24.4	3.31
C8	22 Jul 2025	12	16.49	84.84	8.2	33.52	8.1	24.5	3.50
C8	22 Jul 2025	13	16.15	85.78	7.8	33.51	8.1	24.6	2.83
C8	22 Jul 2025	14	15.73	86.77	7.4	33.52	8.0	24.7	1.67
C8	22 Jul 2025	15	15.27	89.80	7.2	33.49	8.0	24.8	1.24
C8	22 Jul 2025	16	14.85	91.39	7.0	33.49	8.0	24.8	0.69
C8	22 Jul 2025	17	14.41	93.35	7.0	33.48	8.0	24.9	0.51
C8	22 Jul 2025	18	14.26	94.09	7.0	33.47	8.0	25.0	0.49
C8	22 Jul 2025	19	13.68	94.34	6.7	33.48	8.0	25.1	0.42
C8	22 Jul 2025	20	13.82	94.32	6.6	33.48	7.9	25.1	0.47
C8	31 Jul 2025	1	18.89	83.74	9.3	33.54	8.2	23.9	1.29
C8	31 Jul 2025	2	18.86	89.91	9.2	33.54	8.2	23.9	1.03
C8	31 Jul 2025	3	18.17	90.72	9.9	33.53	8.2	24.1	1.29
C8	31 Jul 2025	4	17.68	90.09	10.4	33.53	8.2	24.2	3.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
C8	31 Jul 2025	5	17.38	87.29	10.5	33.52	8.2	24.3	4.14
C8	31 Jul 2025	6	17.10	86.84	10.4	33.52	8.2	24.4	3.95
C8	31 Jul 2025	7	16.51	87.25	10.3	33.51	8.2	24.5	4.03
C8	31 Jul 2025	8	16.03	86.44	10.0	33.51	8.2	24.6	4.48
C8	31 Jul 2025	9	15.47	85.69	9.5	33.48	8.2	24.7	4.57
C8	31 Jul 2025	10	14.28	85.99	9.0	33.50	8.1	25.0	4.49
C8	31 Jul 2025	11	13.84	85.60	8.3	33.50	8.1	25.1	5.04
C8	31 Jul 2025	12	13.79	85.00	8.1	33.48	8.0	25.1	5.51
C8	31 Jul 2025	13	13.39	84.81	7.7	33.49	8.0	25.1	5.86
C8	31 Jul 2025	14	13.00	84.28	7.2	33.51	8.0	25.2	6.63
C8	31 Jul 2025	15	12.74	85.69	6.7	33.51	7.9	25.3	6.54
C8	31 Jul 2025	16	12.45	85.20	6.2	33.51	7.9	25.3	7.57
C8	31 Jul 2025	17	11.73	89.87	5.7	33.56	7.8	25.5	3.23
C8	31 Jul 2025	18	11.67	93.78	5.3	33.56	7.8	25.5	0.76
C8	31 Jul 2025	19	11.68	94.86	5.2	33.56	7.8	25.5	1.09

NA = not available

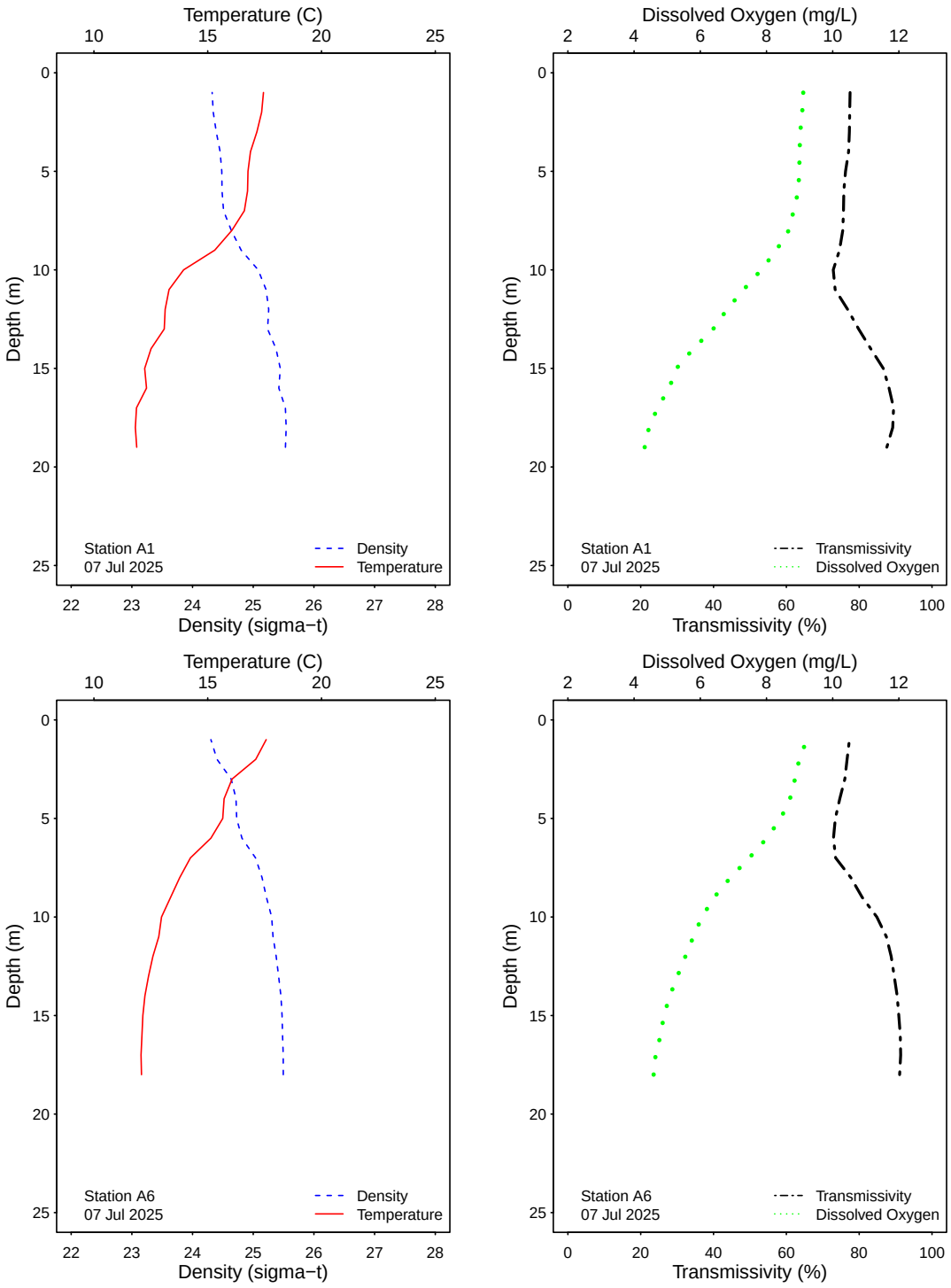

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

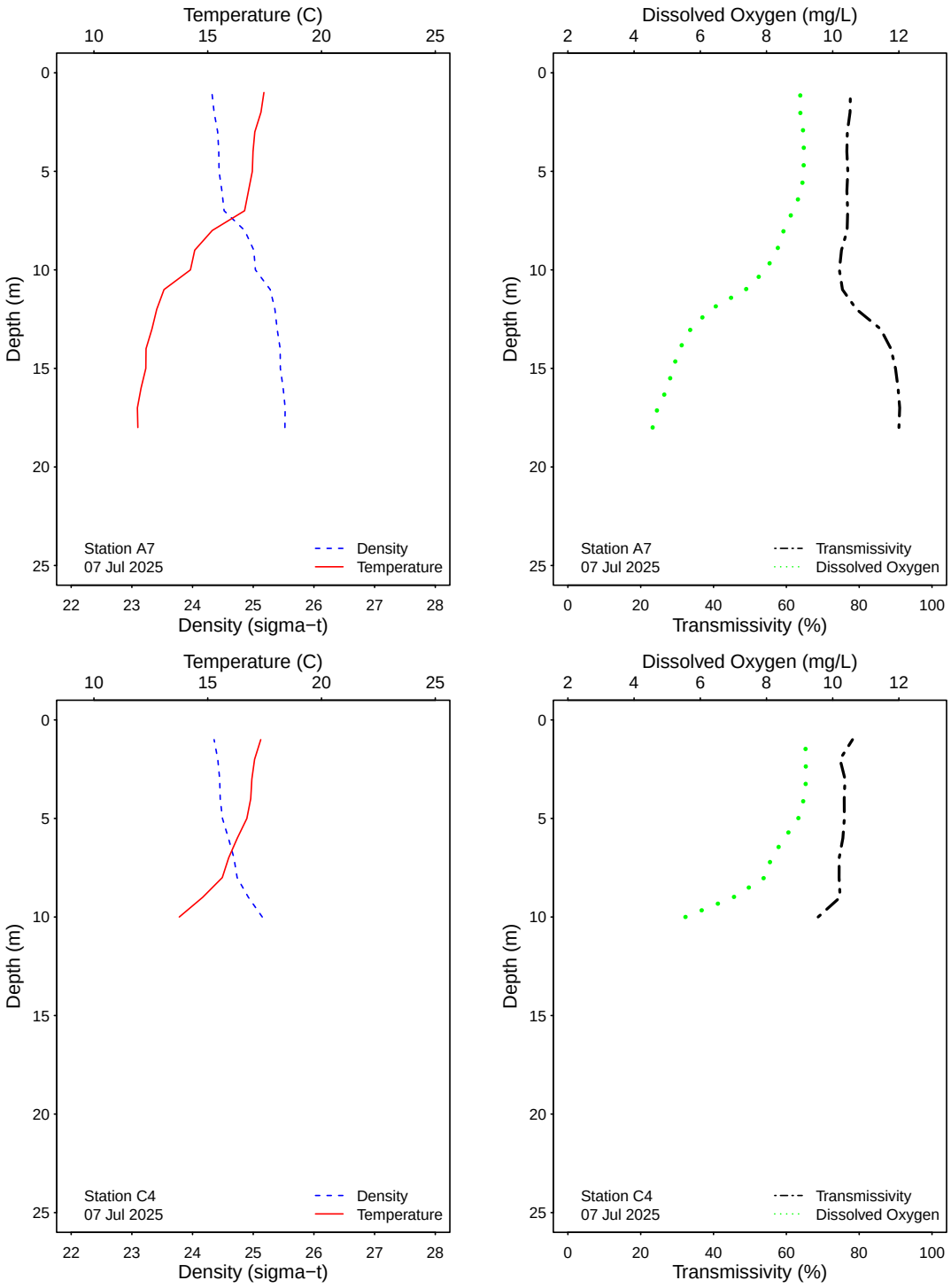

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

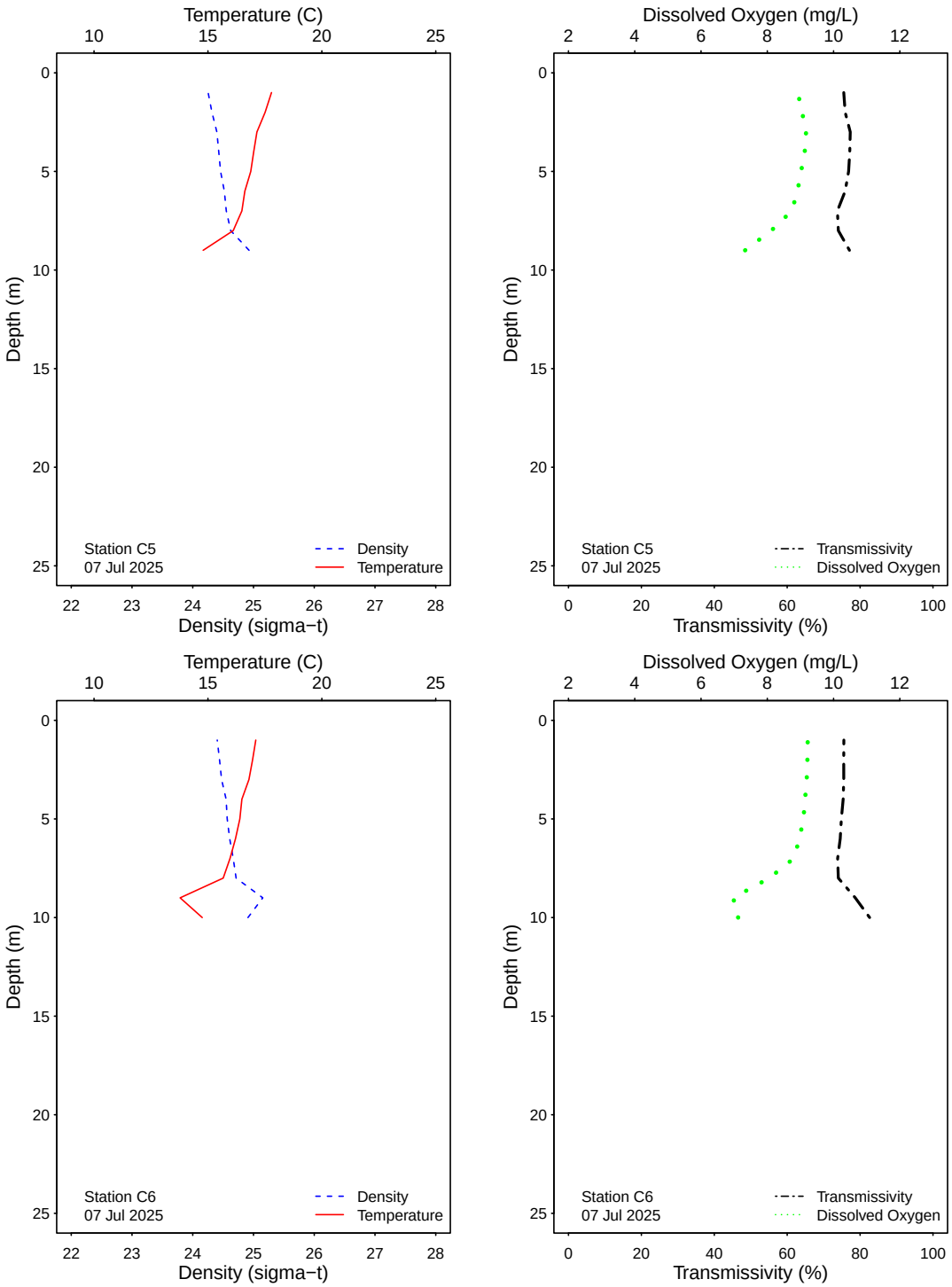

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

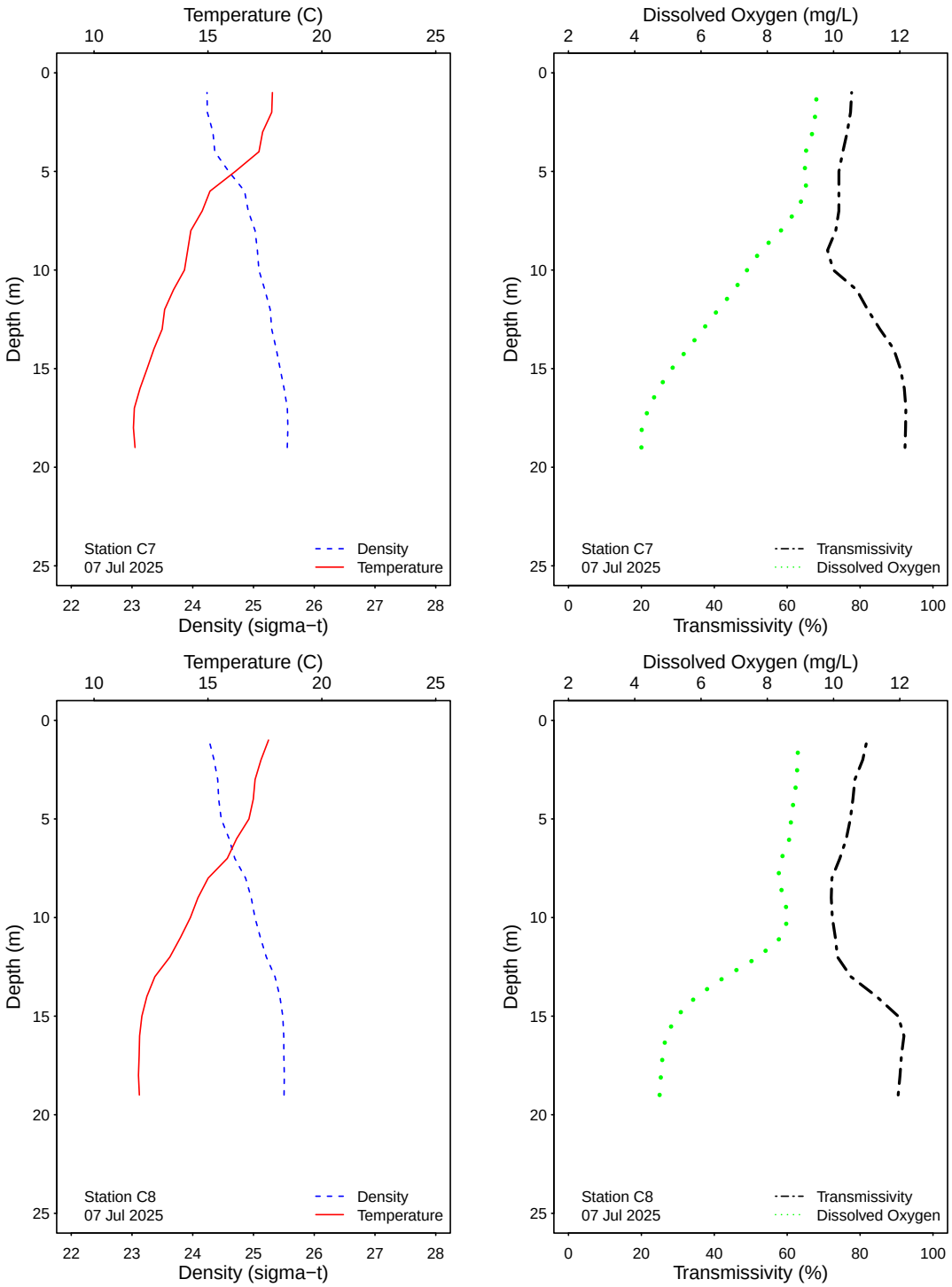

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

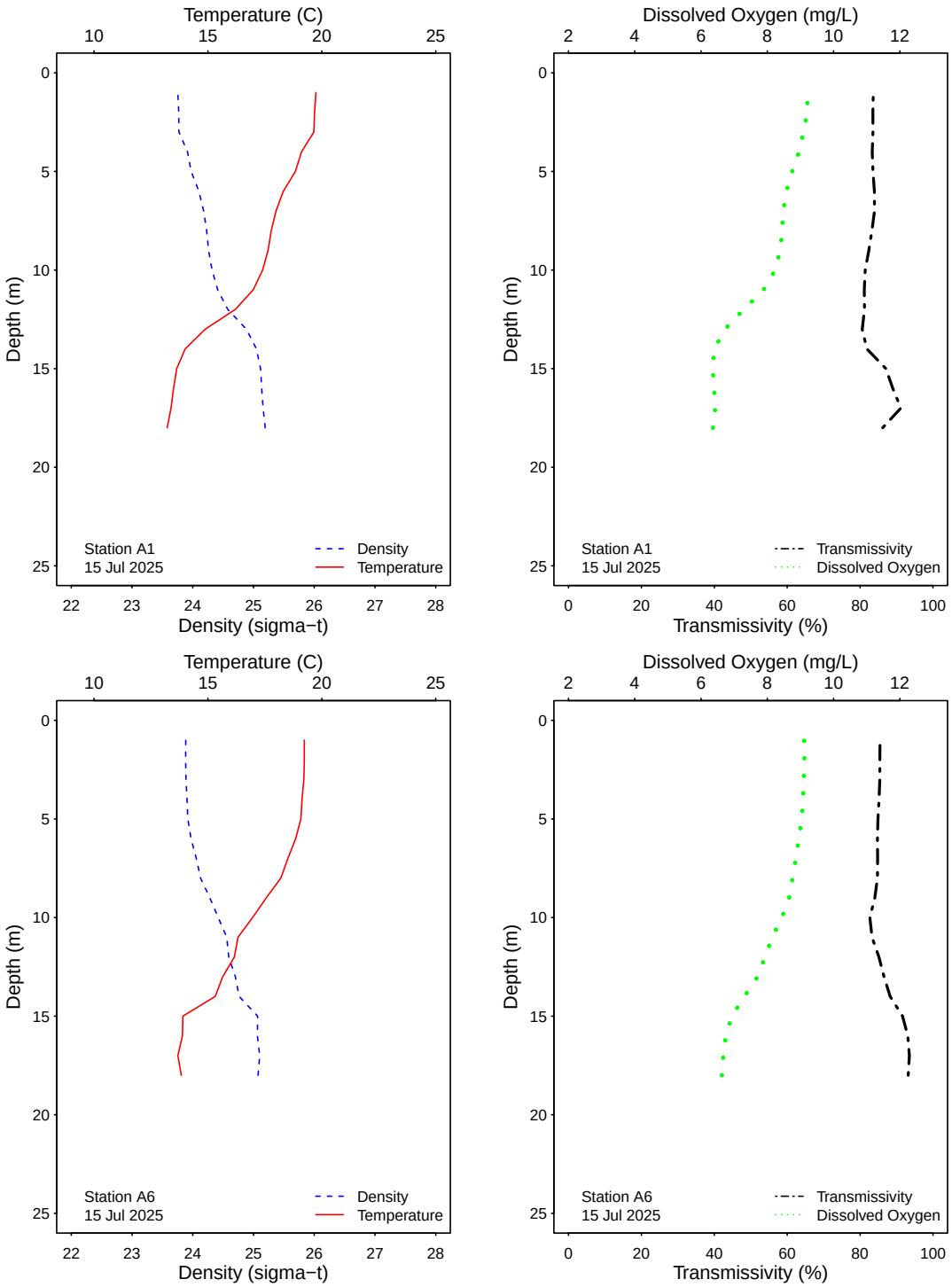

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

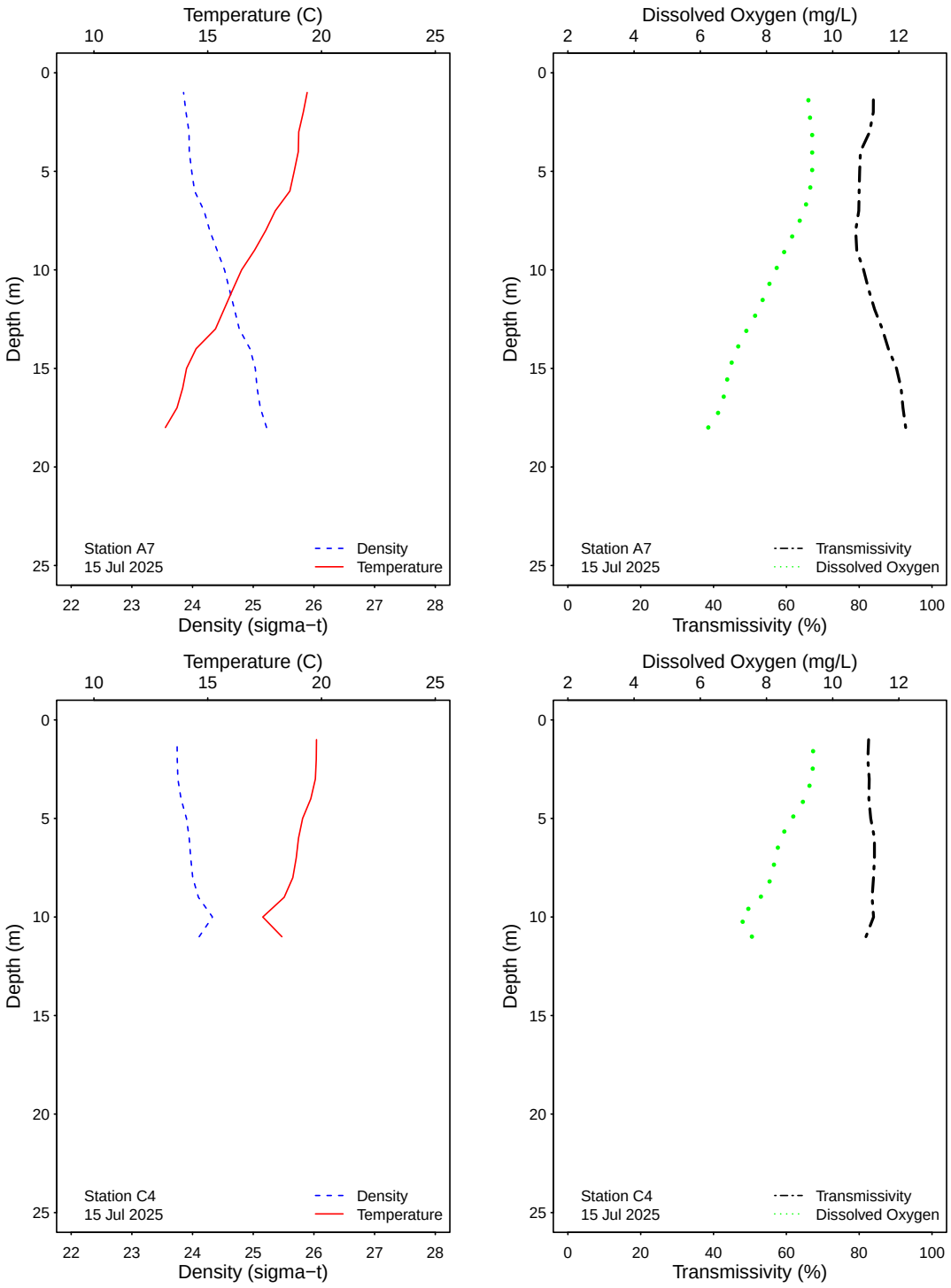

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

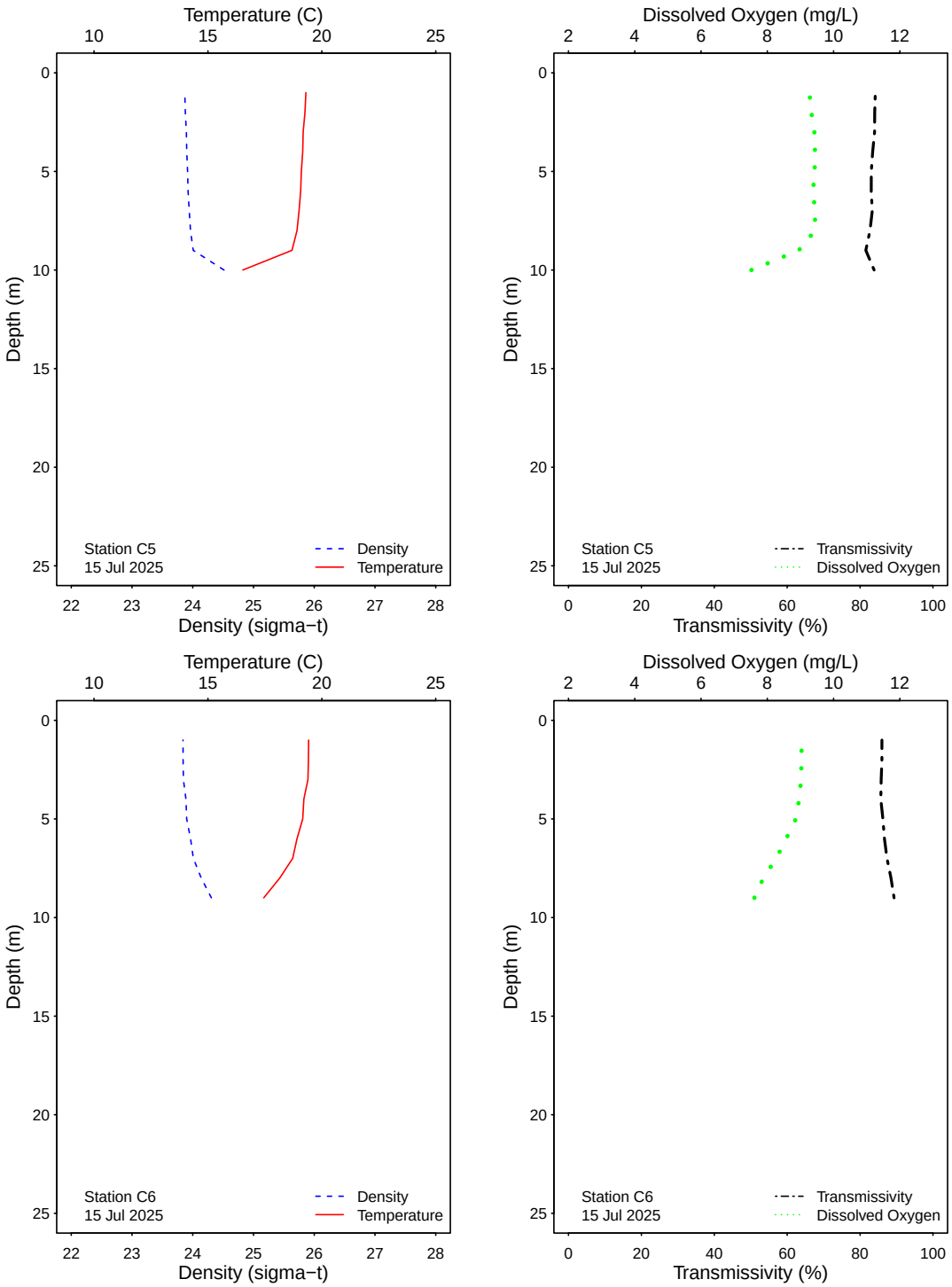

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

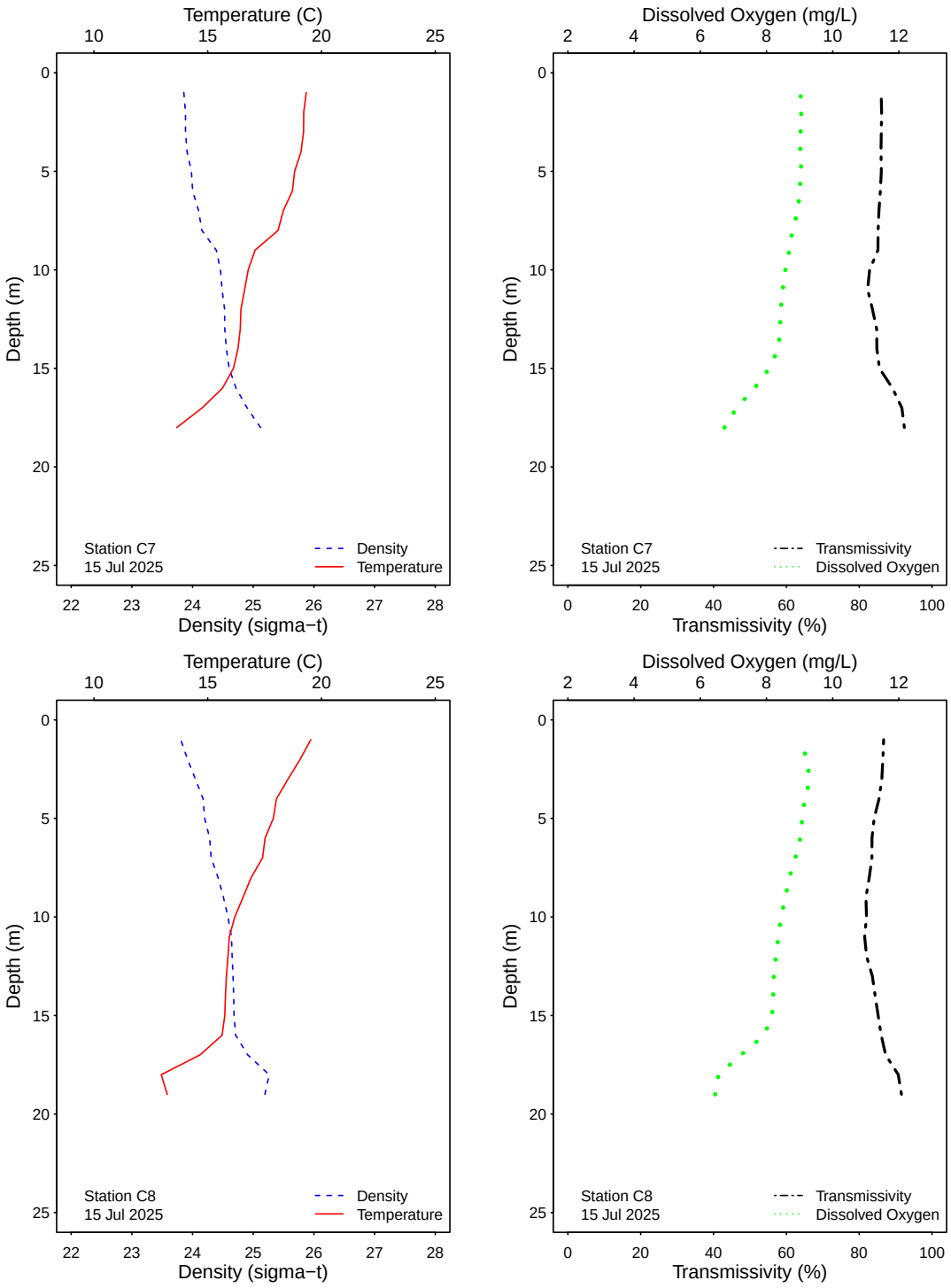

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

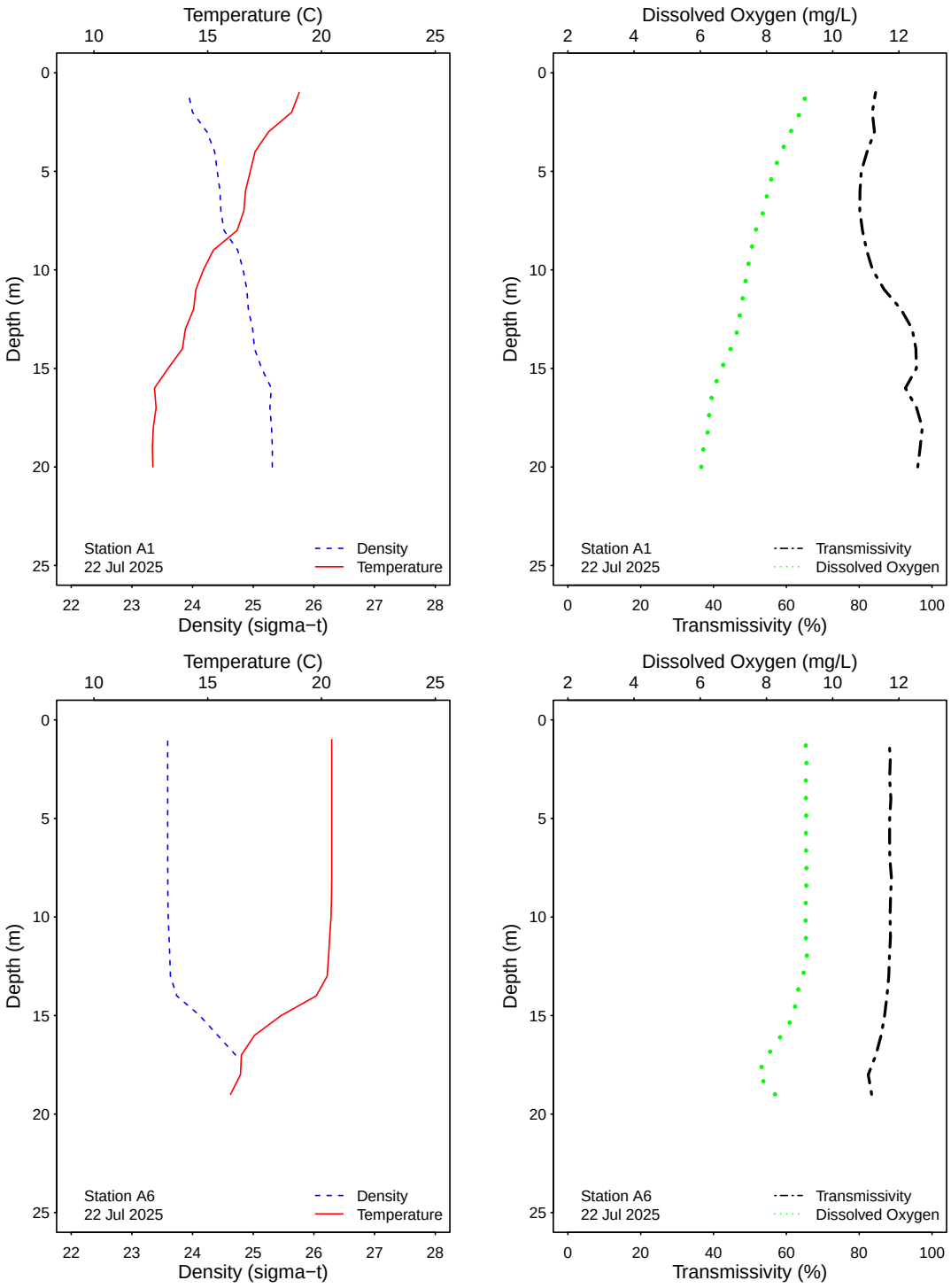

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

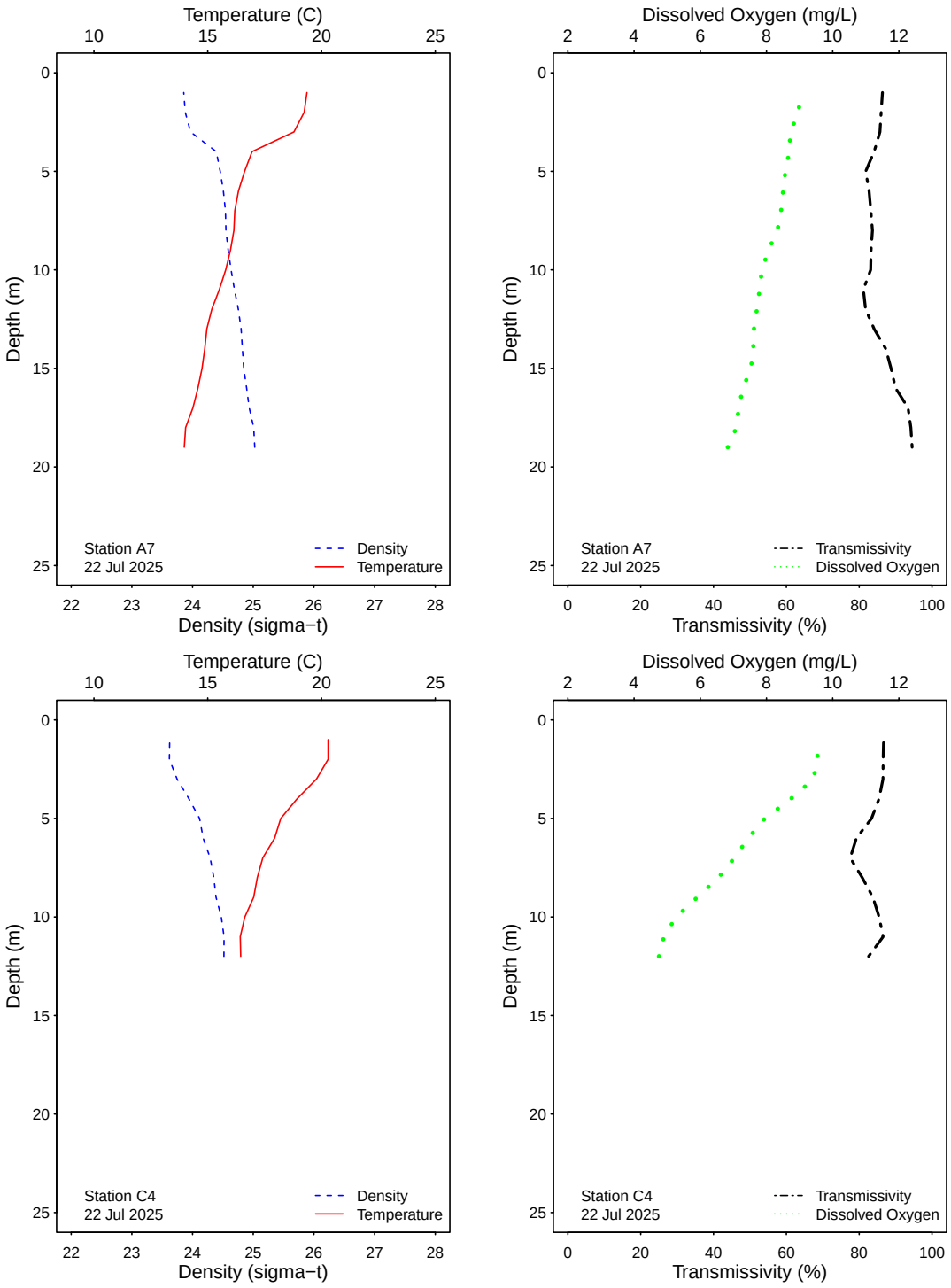

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

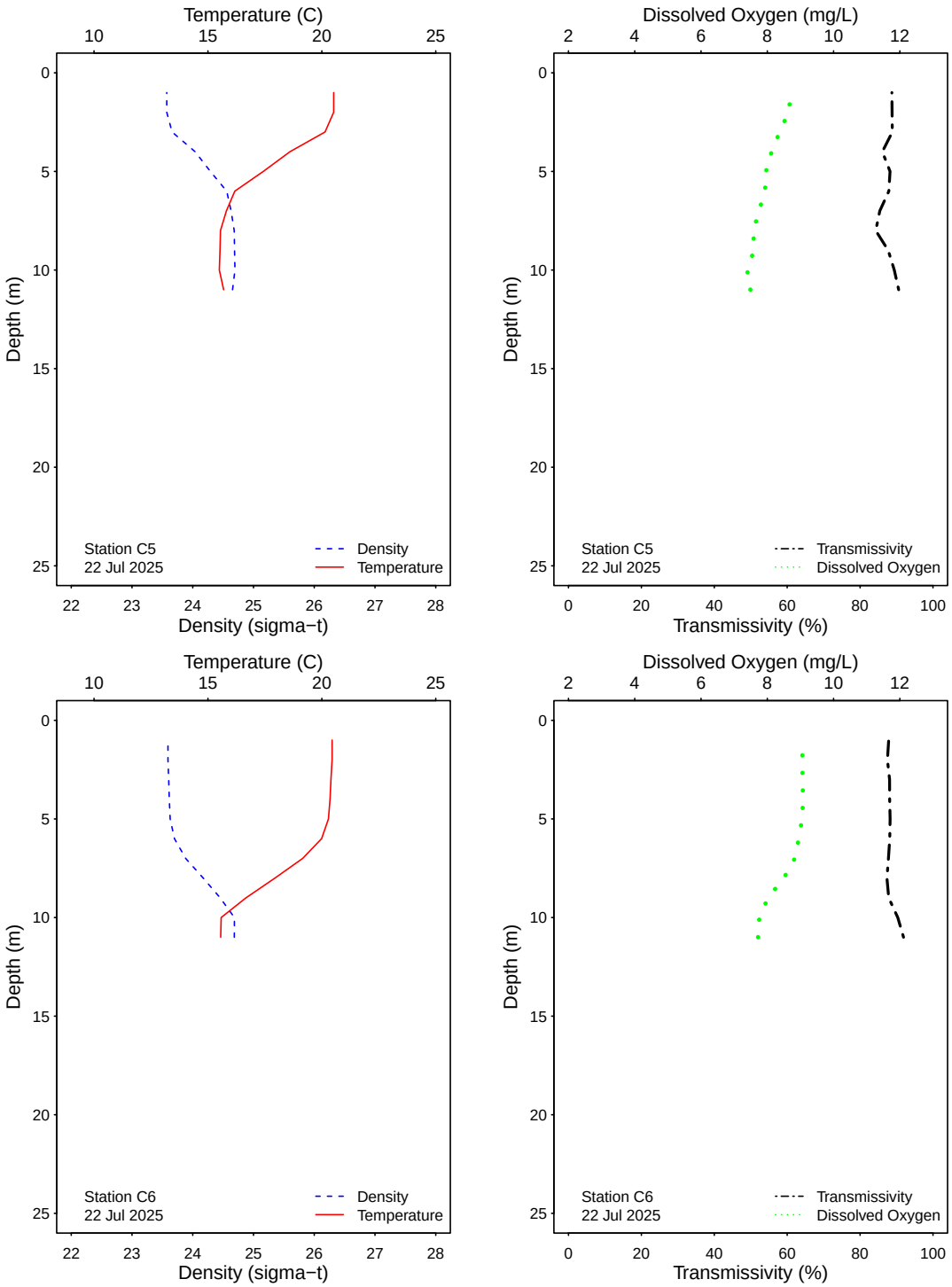

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

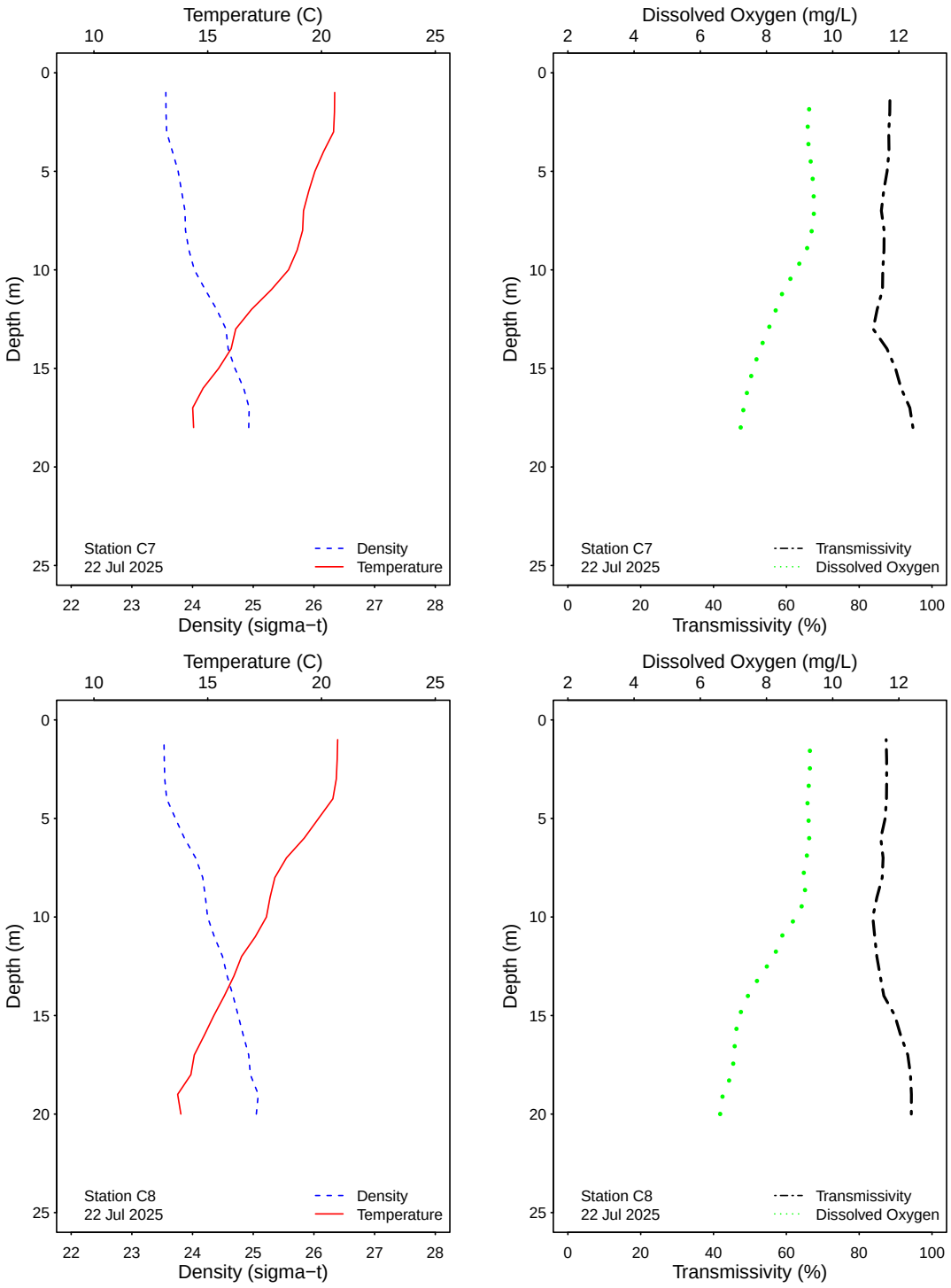

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

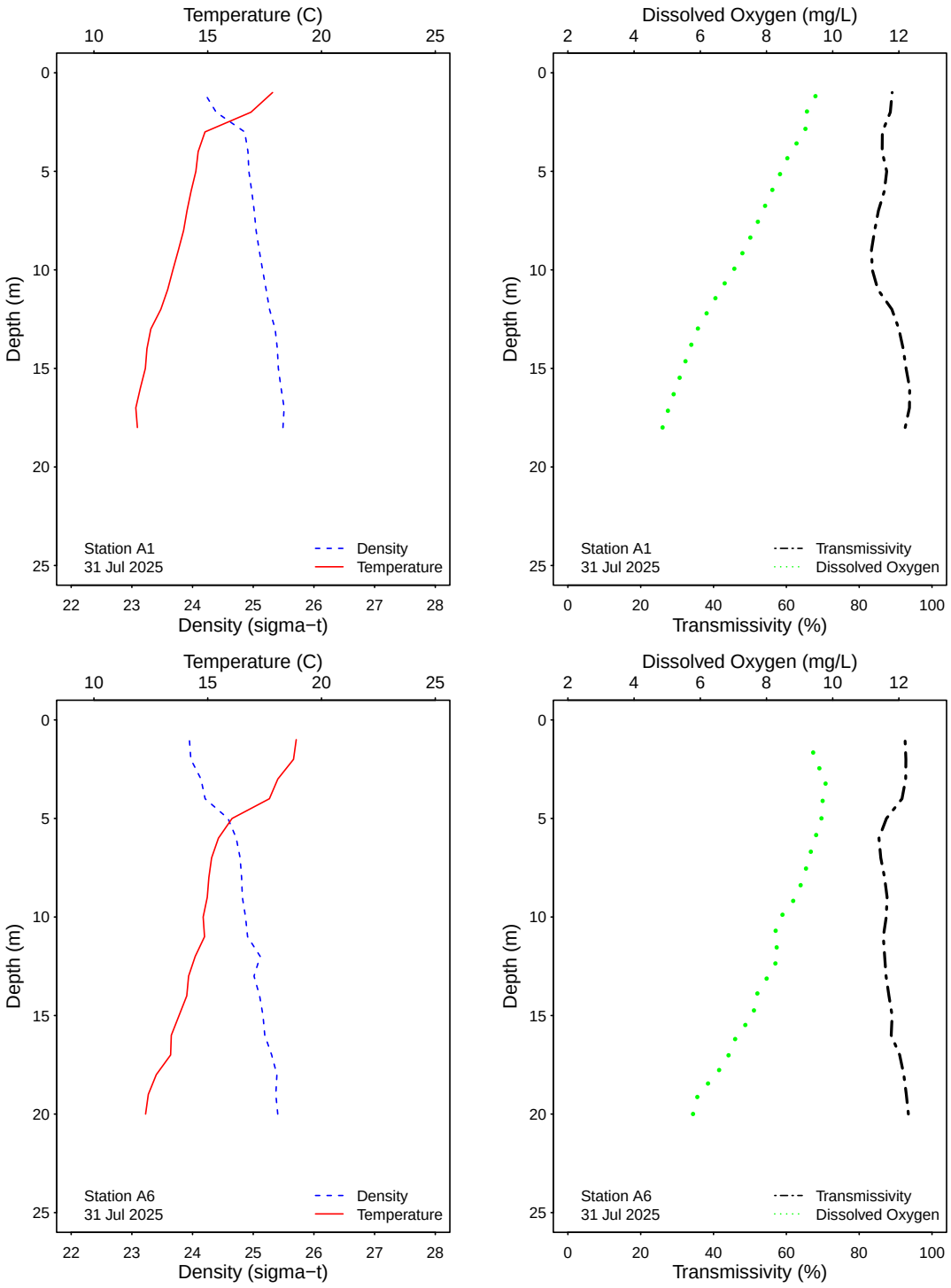

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

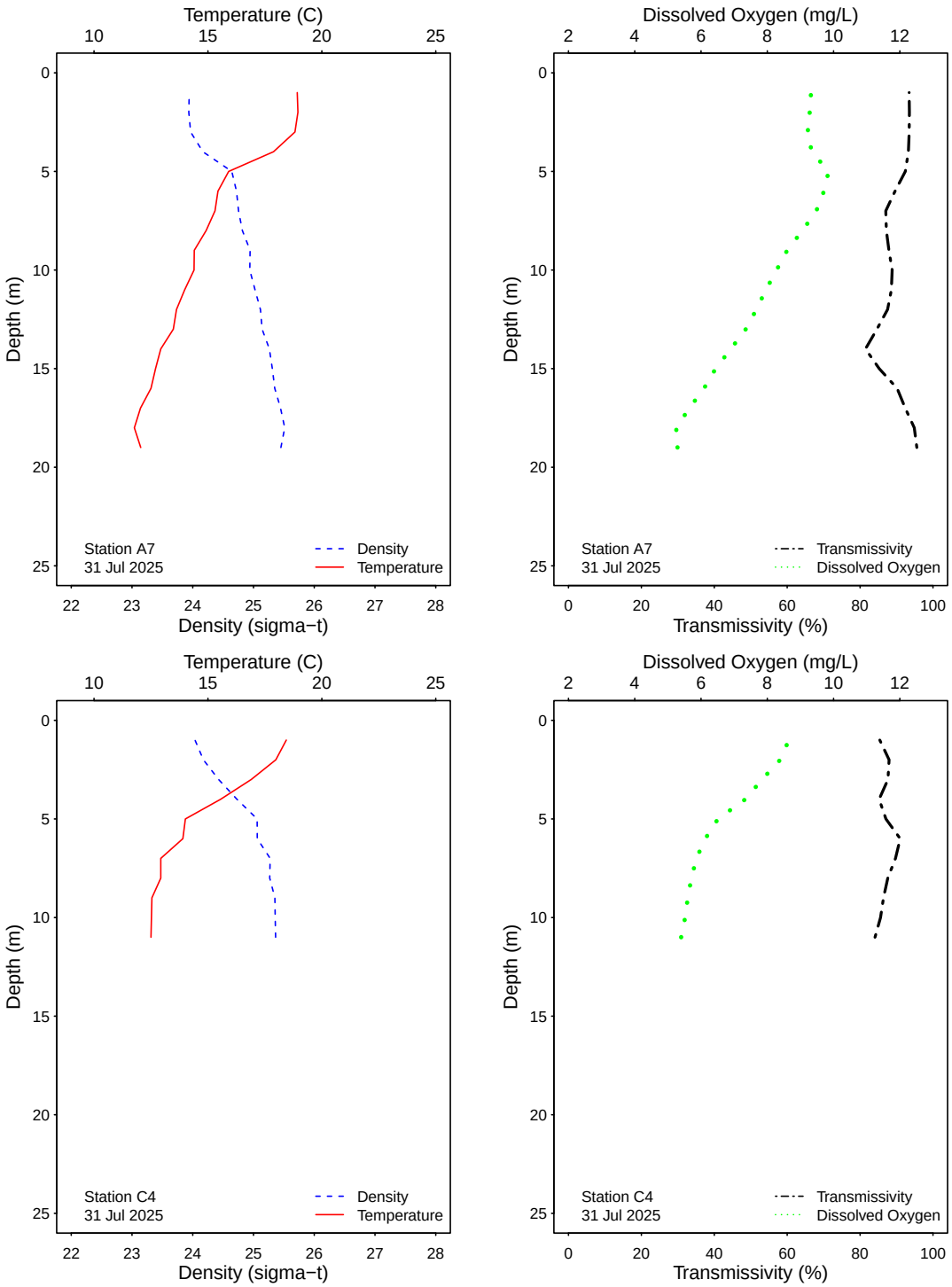

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

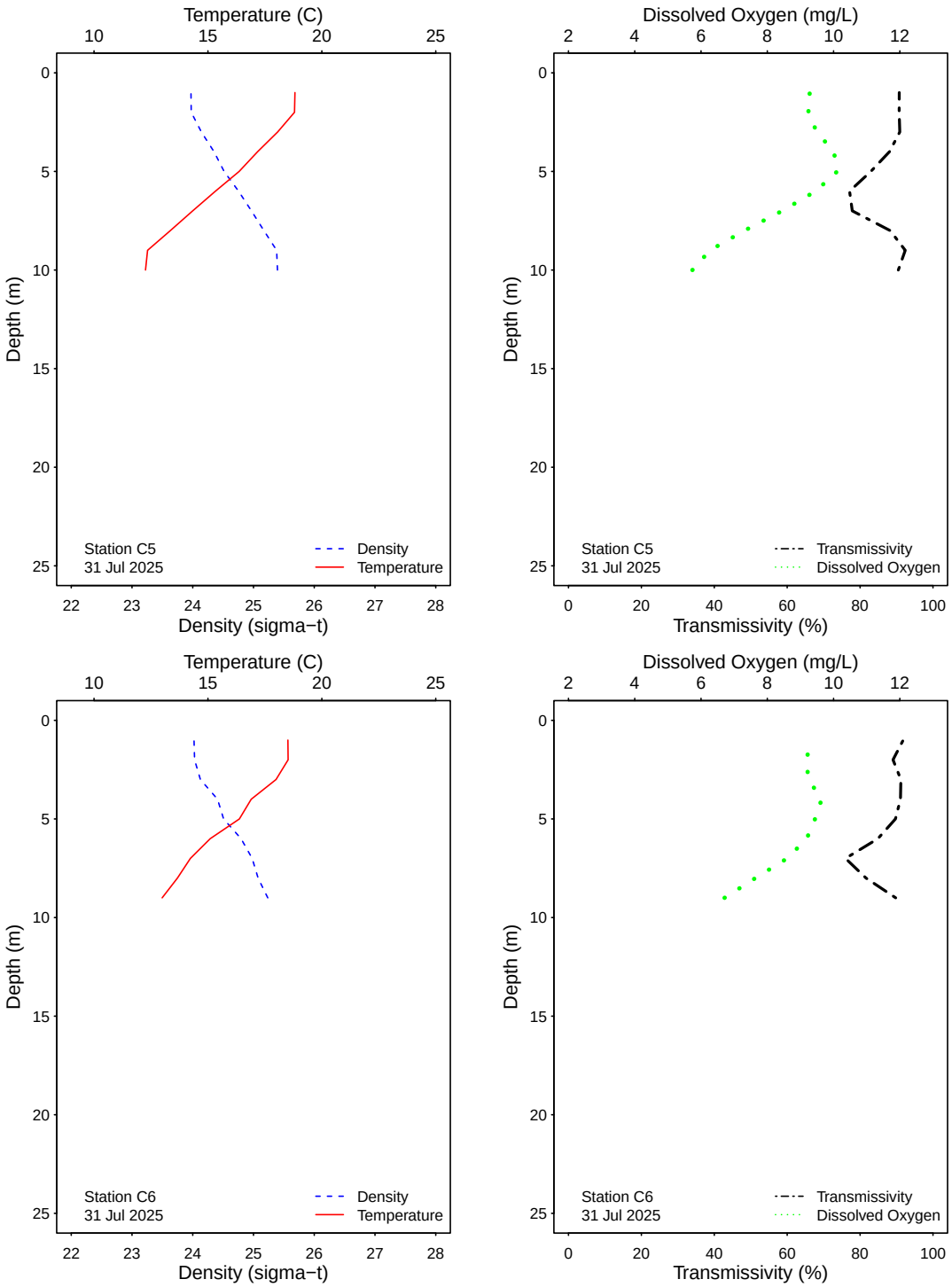

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

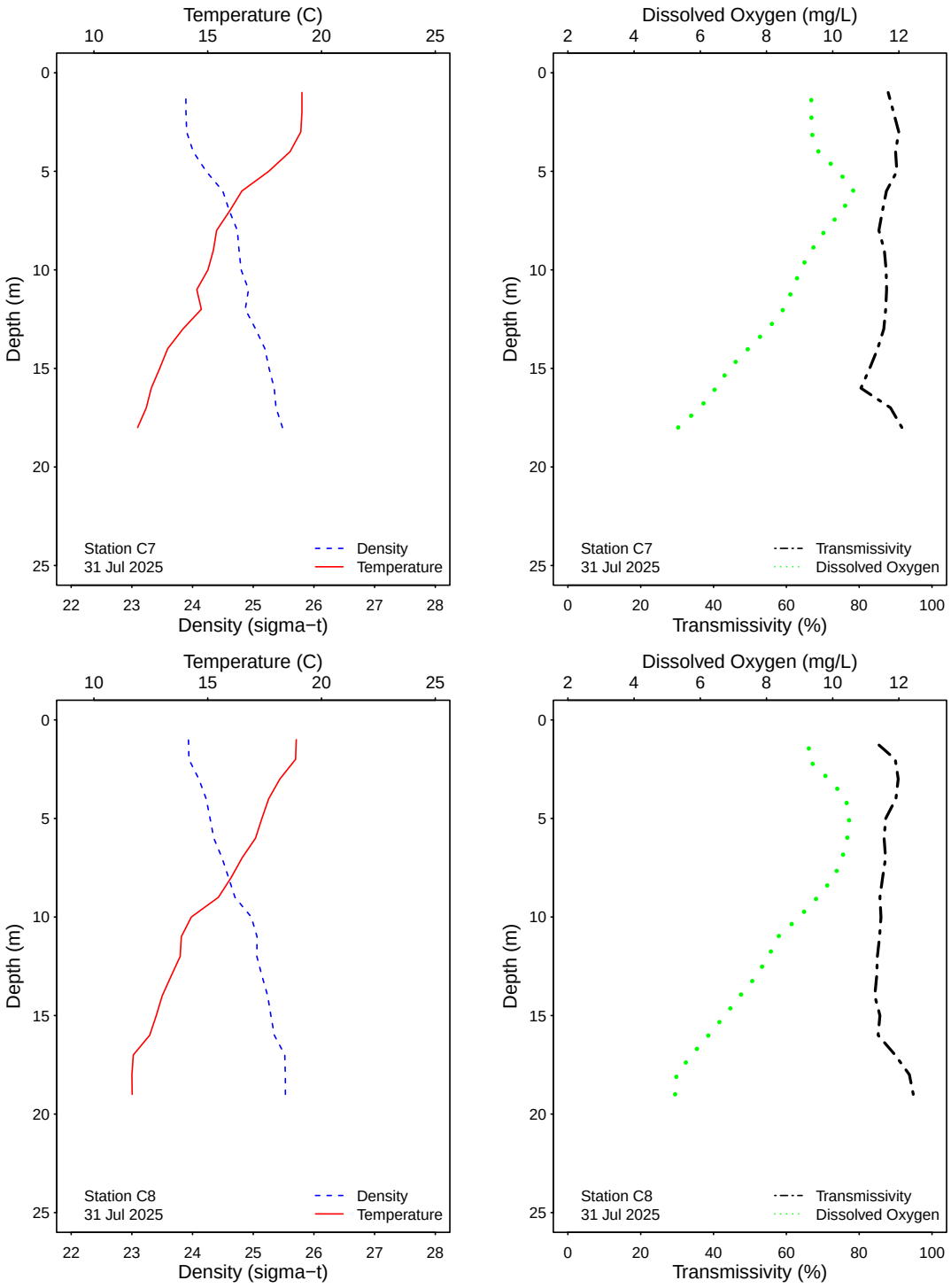

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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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	07 Jul 2025	18	NCD	LAB DUPLICATE	4	2	2
A7	15 Jul 2025	18	JF	LAB DUPLICATE	2	2	2
A7	22 Jul 2025	18	NCD	LAB DUPLICATE	2	2	2
A7	31 Jul 2025	18	ADG	LAB DUPLICATE	2	2	2
C7	07 Jul 2025	18	NCD	LAB DUPLICATE	10	2	2
C7	15 Jul 2025	18	JF	LAB DUPLICATE	2	2	2
C7	22 Jul 2025	18	NCD	LAB DUPLICATE	2	2	2
C7	31 Jul 2025	18	ADG	LAB DUPLICATE	6	2	2
C8	07 Jul 2025	12	NCD	LAB DUPLICATE	20	6	2
C8	15 Jul 2025	12	JF	LAB DUPLICATE	2	2	2
C8	22 Jul 2025	12	NCD	LAB DUPLICATE	2	2	2
C8	31 Jul 2025	12	ADG	LAB DUPLICATE	2	2	2
D12	02 Jul 2025		KT	LAB DUPLICATE	20	2	6
D12	02 Jul 2025		KT	FIELD DUPLICATE	20	2	2
D12	09 Jul 2025		WT	FIELD DUPLICATE	20	4	2
D12	09 Jul 2025		WT	LAB DUPLICATE	20	10	2
D12	16 Jul 2025		SS	FIELD DUPLICATE	60	8	2
D12	16 Jul 2025		SS	LAB DUPLICATE	40	8	2
D12	23 Jul 2025		SS	FIELD DUPLICATE	20	2	6
D12	23 Jul 2025		SS	LAB DUPLICATE	20	2	2
D12	30 Jul 2025		KT	FIELD DUPLICATE	2	2	4
D12	30 Jul 2025		KT	LAB DUPLICATE	2	2	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	D9	D10	D11	D12
01 Jul 2025	2	2	4	4	2	4	11	3
02 Jul 2025	2	2	4	4	2	4	11	4
03 Jul 2025	2	2	4	4	2	4	11	4
04 Jul 2025	2	2	4	4	2	4	11	4
05 Jul 2025	2	2	4	4	2	4	11	4
06 Jul 2025	2	2	4	4	2	4	11	4
07 Jul 2025	2	2	4	4	2	4	11	4
08 Jul 2025	2	2	4	4	2	4	11	4
09 Jul 2025	2	2	4	3	2	5	9	3
10 Jul 2025	2	2	4	3	2	5	9	3
11 Jul 2025	2	2	4	3	2	5	9	3
12 Jul 2025	2	2	4	3	2	5	9	3
13 Jul 2025	2	2	4	3	2	5	9	3
14 Jul 2025	2	2	4	3	2	5	9	3
15 Jul 2025	2	2	4	3	2	5	9	3
16 Jul 2025	2	2	4	3	2	5	16	3
17 Jul 2025	2	2	4	3	2	5	16	3
18 Jul 2025	2	2	4	3	2	5	16	3
19 Jul 2025	2	2	4	3	2	5	16	3
20 Jul 2025	2	2	4	3	2	5	16	3
21 Jul 2025	2	2	4	3	2	5	16	3
22 Jul 2025	2	2	4	3	2	5	16	3
23 Jul 2025	2	2	5	3	2	4	17	3
24 Jul 2025	2	2	5	3	2	4	17	3
25 Jul 2025	2	2	5	3	2	4	17	3
26 Jul 2025	2	2	5	3	2	4	17	3
27 Jul 2025	2	2	5	3	2	4	17	3
28 Jul 2025	2	2	3	3	2	4	17	3
29 Jul 2025	2	2	3	3	2	4	17	3
30 Jul 2025	2	2	3	3	2	4	12	3
31 Jul 2025	2	2	3	3	2	4	12	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	D9	D10	D11	D12
July	IC	IC	IC	IC	IC	IC	IC	IC

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

Table B.3

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

Date	D4	D5	D7	D8	D9	D10	D11	D12
01 Jul 2025	*20	***110**	***110**	*20	*22	***110**	*60	*11
02 Jul 2025	20	**200**	20	20	20	40	**80**	20
03 Jul 2025	20	**200**	20	20	20	40	**80**	20
04 Jul 2025	*20	***200**	*20	***110**	*30	***120**	***140**	*11
05 Jul 2025	*20	***200**	*20	***110**	*30	***120**	***140**	*11
06 Jul 2025	*20	***200**	*20	***110**	*30	***120**	***140**	*11
07 Jul 2025	*20	***200**	*20	***110**	*30	***120**	***140**	*11
08 Jul 2025	*20	***200**	*20	***110**	*30	***120**	***140**	*11
09 Jul 2025	20	**200**	20	**200**	40	40	**80**	20
10 Jul 2025	20	**200**	20	**200**	40	40	**80**	20
11 Jul 2025	*20	***200**	***110**	***200**	*30	*30	***140**	*20
12 Jul 2025	*20	***200**	***110**	***200**	*30	*30	***140**	*20
13 Jul 2025	*20	***200**	***110**	***200**	*30	*30	***140**	*20
14 Jul 2025	*20	***200**	***110**	***200**	*30	*30	***140**	*20
15 Jul 2025	*20	***200**	***110**	***200**	*30	*30	***140**	*20
16 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
17 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
18 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
19 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
20 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
21 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
22 Jul 2025	*20	***110**	***200**	***200**	*30	*30	***200**	*20
23 Jul 2025	20	20	**200**	**200**	40	20	**200**	20
24 Jul 2025	20	20	**200**	**200**	40	20	**200**	20
25 Jul 2025	*20	*20	***200**	***200**	*30	*20	***200**	*20
26 Jul 2025	*20	*20	***200**	***200**	*30	*20	***200**	*20
27 Jul 2025	*20	*20	***200**	***200**	*30	*20	***200**	*20
28 Jul 2025	*20	*20	***200**	***200**	*30	*20	***200**	*20
29 Jul 2025	*20	*20	***200**	***200**	*30	*20	***200**	*20
30 Jul 2025	20	20	**200**	**200**	20	20	**200**	20
31 Jul 2025	20	20	**200**	**200**	20	20	**200**	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	D9	D10	D11	D12
July	IC	IC	IC	IC	IC	IC	**E**	IC

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

Kelp Stations

Table B.5

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
01 Jul 2025	2	2	2	2	2	2	2	2
02 Jul 2025	2	2	2	2	2	2	2	2
03 Jul 2025	2	2	2	2	2	2	2	2
04 Jul 2025	2	2	2	2	2	2	2	2
05 Jul 2025	2	2	2	2	2	2	2	2
06 Jul 2025	2	2	2	2	2	2	2	2
07 Jul 2025	2	2	2	2	2	2	2	2
08 Jul 2025	2	2	2	2	2	2	2	2
09 Jul 2025	2	2	2	2	2	2	2	2
10 Jul 2025	2	2	2	2	2	2	2	2
11 Jul 2025	2	2	2	2	2	2	2	2
12 Jul 2025	2	2	2	2	2	2	2	2
13 Jul 2025	2	2	2	2	2	2	2	2
14 Jul 2025	2	2	2	2	2	2	2	2
15 Jul 2025	2	2	2	2	2	2	2	2
16 Jul 2025	2	2	2	2	2	2	2	2
17 Jul 2025	2	2	2	2	2	2	2	2
18 Jul 2025	2	2	2	2	2	2	2	2
19 Jul 2025	2	2	2	2	2	2	2	2
20 Jul 2025	2	2	2	2	2	2	2	2
21 Jul 2025	2	2	2	2	2	2	2	2
22 Jul 2025	2	2	2	2	2	2	2	2
23 Jul 2025	2	2	2	2	2	2	2	2
24 Jul 2025	2	2	2	2	2	2	2	2
25 Jul 2025	2	2	2	2	2	2	2	2
26 Jul 2025	2	2	2	2	2	2	2	2
27 Jul 2025	2	2	2	2	2	2	2	2
28 Jul 2025	2	2	2	2	2	2	2	2
29 Jul 2025	2	2	2	2	2	2	2	2
30 Jul 2025	2	2	2	2	2	2	2	2
31 Jul 2025	2	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table B.6

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

Date	A1	A6	A7	C4	C5	C6	C7	C8
July	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 Median" standard for total coliform bacteria at the PLOO kelp stations. Data are based on the median of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard.

	A1			A6			A7			C4			C5			C6			C7			C8		
Date	1m	12m	18m	1m	12m	18m	1m	12m	18m	1m	3m	9m	1m	3m	9m	1m	3m	9m	1m	12m	18m	1m	12m	18m
01 Jul 2025	2	2	8	2	2	2	6	2	14	2	2	2	2	2	2	20	20	2	2	2	2	2	2	2
02 Jul 2025	*2	*2	*14	*2	*2	*11	*13	*3	*17	*2	*2	*2	*2	*2	*2	*20	*20	*2	*11	*2	*6	*2	*2	*11
03 Jul 2025	*2	*2	*14	*2	*2	*11	*13	*3	*17	*2	*2	*2	*2	*2	*2	*20	*20	*2	*11	*2	*6	*2	*2	*11
04 Jul 2025	*2	*2	*14	*2	*2	*11	*13	*3	*17	*2	*2	*2	*2	*2	*2	*20	*20	*2	*11	*2	*6	*2	*2	*11
05 Jul 2025	*2	*2	*14	*2	*2	*11	*13	*3	*17	*2	*2	*2	*2	*2	*2	*20	*20	*2	*11	*2	*6	*2	*2	*11
06 Jul 2025	*2	*2	*14	*2	*2	*11	*13	*3	*17	*2	*2	*2	*2	*2	*2	*20	*20	*2	*11	*2	*6	*2	*2	*11
07 Jul 2025	2	2	8	2	2	4	20	4	14	2	2	2	2	2	2	20	20	2	20	2	10	2	2	20
08 Jul 2025	2	2	8	2	2	4	20	4	14	2	2	2	2	2	2	20	20	2	20	2	10	2	2	20
09 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
10 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
11 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
12 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
13 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
14 Jul 2025	*2	*2	*6	*2	*3	*12	*13	*12	*11	*2	*2	*2	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
15 Jul 2025	2	2	8	2	2	4	6	4	2	2	2	2	2	2	2	6	2	2	20	2	10	2	2	20
16 Jul 2025	2	2	8	2	2	4	6	4	2	2	2	2	2	2	2	6	2	2	20	2	10	2	2	20
17 Jul 2025	*2	*2	*14	*2	*3	*12	*11	*12	*11	*2	*2	*11	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
18 Jul 2025	*2	*2	*14	*2	*3	*12	*11	*12	*11	*2	*2	*11	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
19 Jul 2025	*2	*2	*14	*2	*3	*12	*11	*12	*11	*2	*2	*11	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
20 Jul 2025	*2	*2	*14	*2	*3	*12	*11	*12	*11	*2	*2	*11	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
21 Jul 2025	*2	*2	*14	*2	*3	*12	*11	*12	*11	*2	*2	*11	*11	*11	*2	*13	*11	*2	*20	*2	*10	*11	*2	*20
22 Jul 2025	2	2	8	2	2	4	2	4	2	2	2	2	2	2	2	6	2	2	20	2	10	2	2	20
23 Jul 2025	2	2	8	2	2	4	2	4	2	2	2	2	2	2	2	6	2	2	20	2	10	2	2	20
24 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
25 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
26 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
27 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
28 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
29 Jul 2025	*3	*2	*5	*2	*2	*3	*11	*11	*2	*2	*2	*11	*2	*2	*2	*4	*2	*2	*11	*2	*6	*11	*2	*11
30 Jul 2025	*4	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*20	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
31 Jul 2025	*3	*2	*2	*2	*2	*2	*2	*2	*2	*11	*2	*11	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*10

* 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

	A1			A6			A7			C4			C5			C6			C7			C8		
Date	**1m**	**12m**	**18m**	**1m**	**12m**	**18m**	**1m**	**12m**	**18m**	**1m**	**3m**	**9m**	**1m**	**3m**	**9m**	**1m**	**3m**	**9m**	**1m**	**12m**	**18m**	**1m**	**12m**	**18m**
July	IC	IC	IC	IC	IC	IC	IC	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