

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045
SDRWQCB Order No. R9-2021-0011

MARCH 2024

Environmental Monitoring and Technical Services
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April 30, 2024

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 March 2024 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2021-0001, NPDES Permit No. CA0108928).

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 from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2021-0011, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). 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 SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–S12).

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

Kelp Bed Stations

Seven kelp bed and other nearshore stations (I19, I24, I25, I26, I32, I39, I40; collectively referred to as “kelp” stations herein) were sampled weekly according to NPDES permit specifications. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9-m depth contour, and one (I39) is located along the 18-m depth contour. Three of these stations, I25, I26, and I39, were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these three stations are only occasionally located within an area where kelp is actually found.

Routine monitoring at each kelp site consists of collecting seawater samples at three discrete depths for bacteriological analyses (total coliforms, fecal coliforms, and *Enterococcus* bacteria) and generating water column profiles of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, and transmissivity. Visual observations of weather and water conditions are also recorded at all stations.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent to one reading per meter. Additionally, CTD profile data for each water sample depth are presented

with the bacteriological data.

Offshore Stations

Quarterly offshore water quality sampling is typically conducted over three days during February, May, August, and November for a total of 40 stations during each month (see station locations map). These offshore stations (I1–I40) are arranged in a grid surrounding the discharge site, and are generally located along the 9, 19, 28, 38, and 55-m depth contours. The seven offshore sites designated as kelp bed stations (described above) are included as part of the quarterly offshore water quality sampling, however the data from these seven stations are reported within the kelp bed station section of the report with the other days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphous dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria were collected at 28 of the stations.

At these offshore stations, water samples for bacteriological analyses were collected using a rosette sampler with Niskin bottles. Measurements of the physical/chemical parameters listed above were taken using a Sea-Bird CTD. Additionally, CTD profile data for depths closest to those at which bacteriological samples were collected were extracted from the CTD profiles and are 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 water-contact standards specified in the 2019 California Ocean Plan (Ocean Plan). The six standards are defined as follows:

Water-Contact Objectives

Fecal coliform:

- (1) The 30-day geometric mean (GM) of fecal coliform density not to exceed 200 CFU/100 mL, calculated based on the five most recent samples from each site
- (2) The single sample maximum (SSM) not to exceed 400 CFU/100 mL

Enterococci:

- (1) The six-week rolling GM of *Enterococci* not to exceed 30 CFU/100 mL, calculated weekly
- (2) The statistical threshold value (STV) of 110 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

Shellfish Harvesting Standards

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.

Total coliform:

- (1) The median total coliform density shall not exceed 70 CFU/100 mL
- (2) The STV of 230 CFU/100 mL not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner

Compliance with the seven Ocean Plan standards are summarized below for the stations located in USA waters. In contrast, no such compliance summaries are presented for the three shore stations located in Mexican waters south of the International Border (i.e., S0, S2, and S3) since this region is not subject to the Ocean Plan standards.

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 exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2024 Quality Assurance Report, which will be completed in March 2025.

SUMMARY OF RESULTS

➤ Shoreline Water Quality Sampling

- Due to site access restrictions in Mexico, the South Bay shoreline sampling is typically carried out on the same day each week (i.e., Tuesday) to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the USIBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- During March, each of the eight shore stations located north of the border were out of compliance with the 2019 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
 - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, and S11.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S8, S10, S11, and S12.
 - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S10, and S11.

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

- The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S8, S9, S10, S11, and S12.
 - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
- A sewage-like odor was observed at stations S5, S6, S9, S10, S11, and S12 on one or more days in March.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. 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 Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on March 6, 12, 19 and 26.
- During March, each of the seven kelp bed stations was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at stations I19, I24, and I40.
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I39, and I40.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, I25, I26, I32, and I40.
 - The STV standard for *Enterococcus* was exceeded at stations I19, I24, I25, and I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
- Water column temperatures ranged from 11.46 to 16.16°C. The difference between surface and bottom waters ranged from 0.78 to 3.13°C.
- Concentrations of chlorophyll *a* ranged from 0.37 to 8.86 µg/L at the kelp bed stations.
- A sewage-like odor was observed at stations I19, I24, I25, and I40 on one or more days in March.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during March at the offshore stations. The next quarterly sampling is scheduled for May 2024.



TABLES AND FIGURES

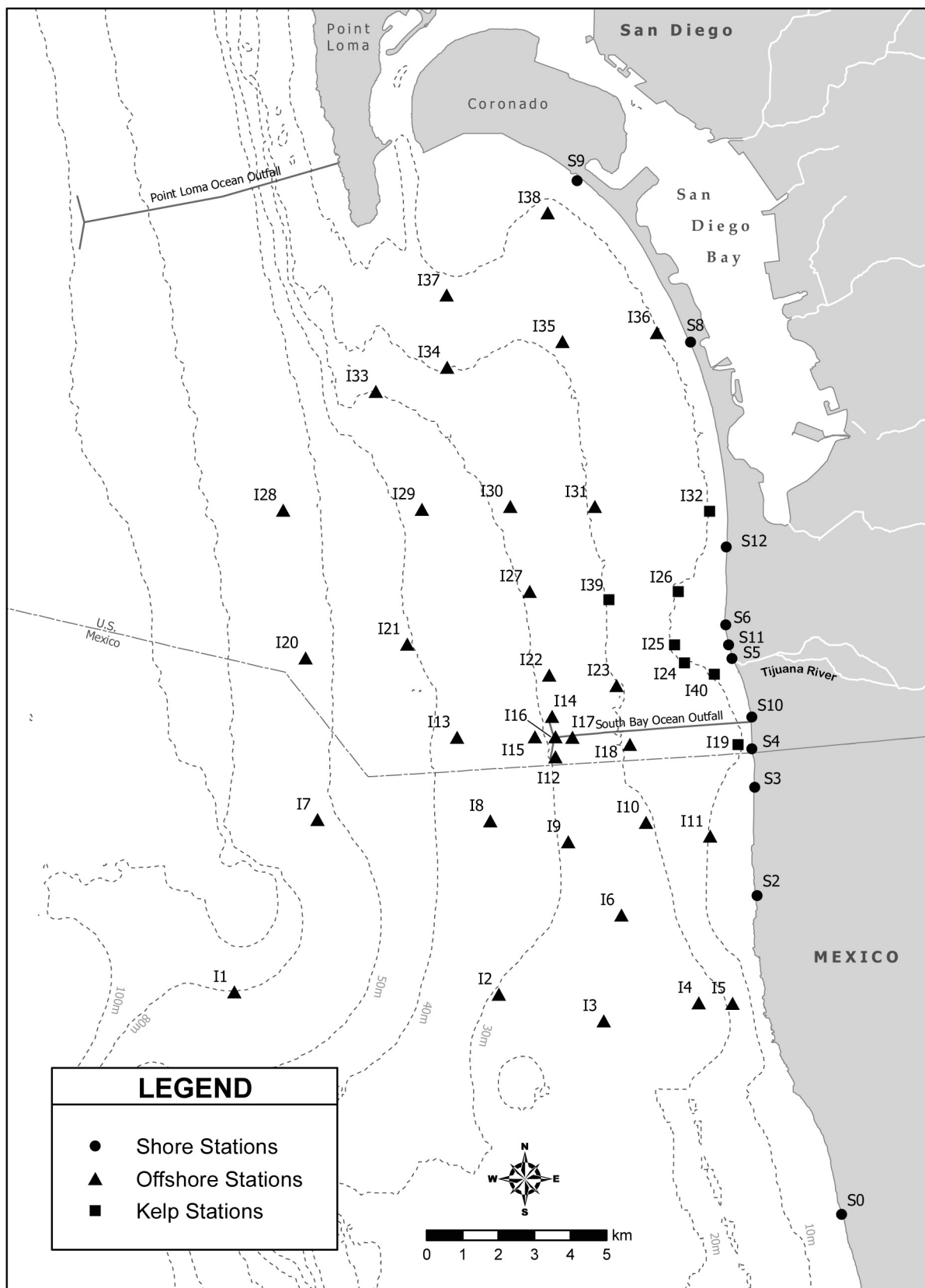


Figure 1.1 Station Map

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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 SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2024	*649	*9736	*1117	*71	*27	*824	*974	*341
02 Mar 2024	*649	*9736	*1117	*71	*27	*824	*974	*341
03 Mar 2024	*649	*9736	*1117	*71	*27	*824	*974	*341
04 Mar 2024	*649	*9736	*1117	*71	*27	*824	*974	*341
05 Mar 2024	639	10152	315	35	16	1271	1609	122
06 Mar 2024	639	10152	315	35	16	1271	1609	122
07 Mar 2024	639	10152	315	35	16	1271	1609	122
08 Mar 2024	639	*9736	*127	*8	*5	1271	*974	*40
09 Mar 2024	639	*9736	*127	*8	*5	1271	*974	*40
10 Mar 2024	*390	*9736	*127	*8	*5	*770	*974	*40
11 Mar 2024	*390	*9736	*127	*8	*5	*770	*974	*40
12 Mar 2024	703	4717	76	6	5	1334	789	22
13 Mar 2024	703	4717	76	6	5	1334	789	22
14 Mar 2024	*378	*3735	*75	*8	*6	*864	*1557	*26
15 Mar 2024	*378	*3735	*75	*8	*6	*864	*1557	*26
16 Mar 2024	*378	*3735	*75	*8	*6	*864	*1557	*26
17 Mar 2024	*378	*3735	*75	*8	*6	*864	*1557	*26
18 Mar 2024	*378	*3735	*75	*8	*6	*864	*1557	*26
19 Mar 2024	409	4717	45	6	5	837	2201	16
20 Mar 2024	409	4717	45	6	5	837	2201	16
21 Mar 2024	*582	*3735	*32	*2	*3	*1310	*4556	*8
22 Mar 2024	*582	*3735	*32	*2	*3	*1310	*4556	*8
23 Mar 2024	*582	*3735	*32	*2	*3	*1310	*4556	*8
24 Mar 2024	*582	*3735	*32	*2	*3	*1310	*4556	*8
25 Mar 2024	*582	*3735	*32	*2	*3	*1310	*4556	*8
26 Mar 2024	1065	4717	55	2	3	2040	3696	14
27 Mar 2024	1065	4717	55	2	3	2040	3696	14
28 Mar 2024	1065	*4604	*15	*2	*3	2040	*2753	*5
29 Mar 2024	*2337	*4604	*15	*2	*3	*5263	*2753	*5
30 Mar 2024	*2337	*4604	*15	*2	*3	*5263	*2753	*5
31 Mar 2024	*2337	*4604	*15	*2	*3	*5263	*2753	*5

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
05 Mar 2024	E	E	IC	IC	IC	E	E	IC
12 Mar 2024	E	IC	IC	IC	IC	E	IC	IC
19 Mar 2024	E	E	IC	IC	IC	E	E	IC
26 Mar 2024	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2024	549	4037	1519	86	17	1324	1742	687
02 Mar 2024	549	4037	1519	86	17	1324	1742	687
03 Mar 2024	549	4037	1519	86	17	1324	1742	687
04 Mar 2024	549	4037	1519	86	17	1324	1742	687
05 Mar 2024	460	4037	539	22	11	1473	1450	181
06 Mar 2024	294	4037	539	22	11	1147	1450	181
07 Mar 2024	294	4037	539	22	11	1147	1450	181
08 Mar 2024	294	4037	539	22	11	1147	1450	181
09 Mar 2024	294	4037	539	22	11	1147	1450	181
10 Mar 2024	294	4037	539	22	11	1147	1450	181
11 Mar 2024	294	4037	539	22	11	1147	1450	181
12 Mar 2024	370	2905	263	22	11	1295	902	100
13 Mar 2024	370	2905	263	22	11	1295	902	100
14 Mar 2024	370	2905	263	22	11	1295	902	100
15 Mar 2024	370	2905	263	22	11	1295	902	100
16 Mar 2024	370	2905	263	22	11	1295	902	100
17 Mar 2024	370	2905	263	22	11	1295	902	100
18 Mar 2024	370	2905	263	22	11	1295	902	100
19 Mar 2024	377	3558	131	15	8	1030	1193	57
20 Mar 2024	377	2905	62	5	3	1030	812	23
21 Mar 2024	377	2905	62	5	3	1030	812	23
22 Mar 2024	254	2905	62	5	3	732	812	23
23 Mar 2024	254	2905	62	5	3	732	812	23
24 Mar 2024	254	2905	62	5	3	732	812	23
25 Mar 2024	254	2905	62	5	3	732	812	23
26 Mar 2024	324	3126	44	5	3	872	795	19
27 Mar 2024	324	3126	44	5	3	872	795	19
28 Mar 2024	324	3126	44	5	3	872	795	19
29 Mar 2024	324	3126	44	5	3	872	795	19
30 Mar 2024	324	3126	44	5	3	872	795	19
31 Mar 2024	324	3126	44	5	3	872	795	19

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	IC	IC	IC	E	E	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 Median standard for total coliform bacteria at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2024	*8600	*16000	*8700	*1710	*344	*8380	*8600	*2750
02 Mar 2024	*8600	*16000	*8700	*1710	*344	*8380	*8600	*2750
03 Mar 2024	*8600	*16000	*8700	*1710	*344	*8380	*8600	*2750
04 Mar 2024	*8600	*16000	*8700	*1710	*344	*8380	*8600	*2750
05 Mar 2024	2400	16000	1400	20	8	16000	16000	1300
06 Mar 2024	2400	16000	1400	20	8	16000	16000	1300
07 Mar 2024	2400	16000	1400	20	8	16000	16000	1300
08 Mar 2024	2400	*16000	*1180	*11	*5	16000	*8600	*820
09 Mar 2024	2400	*16000	*1180	*11	*5	16000	*8600	*820
10 Mar 2024	*1800	*16000	*1180	*11	*5	*8380	*8600	*820
11 Mar 2024	*1800	*16000	*1180	*11	*5	*8380	*8600	*820
12 Mar 2024	2400	16000	960	6	8	16000	3400	340
13 Mar 2024	2400	16000	960	6	8	16000	3400	340
14 Mar 2024	*1800	*16000	*540	*4	*11	*8380	*9700	*680
15 Mar 2024	*1800	*16000	*540	*4	*11	*8380	*9700	*680
16 Mar 2024	*1800	*16000	*540	*4	*11	*8380	*9700	*680
17 Mar 2024	*1800	*16000	*540	*4	*11	*8380	*9700	*680
18 Mar 2024	*1800	*16000	*540	*4	*11	*8380	*9700	*680
19 Mar 2024	2400	16000	120	6	4	2000	16000	60
20 Mar 2024	2400	16000	120	6	4	2000	16000	60
21 Mar 2024	*2600	*16000	*70	*4	*3	*9000	*16000	*31
22 Mar 2024	*2600	*16000	*70	*4	*3	*9000	*16000	*31
23 Mar 2024	*2600	*16000	*70	*4	*3	*9000	*16000	*31
24 Mar 2024	*2600	*16000	*70	*4	*3	*9000	*16000	*31
25 Mar 2024	*2600	*16000	*70	*4	*3	*9000	*16000	*31
26 Mar 2024	2800	16000	120	6	4	16000	16000	60
27 Mar 2024	2800	16000	120	6	4	16000	16000	60
28 Mar 2024	2800	*16000	*70	*13	*12	16000	*13000	*31
29 Mar 2024	*9400	*16000	*70	*13	*12	*16000	*13000	*31
30 Mar 2024	*9400	*16000	*70	*13	*12	*16000	*13000	*31
31 Mar 2024	*9400	*16000	*70	*13	*12	*16000	*13000	*31

* Median calculated using n<5

Table 2.6

Summary of compliance at the SBOO 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	S4	S5	S6	S8	S9	S10	S11	S12
March	E	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of water quality parameters at the SBOO 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
S10	05 Mar 2024	813	>16000	7200	2800e
S10	12 Mar 2024	843	>16000	>12000	>12000
S10	19 Mar 2024	814	2000e	740	260e
S10	26 Mar 2024	843	>16000	>12000	>12000
S11	05 Mar 2024	938	>16000	>12000	4000
S11	12 Mar 2024	1026	3400e	340e	52
S11	19 Mar 2024	936	>16000	8800	6400
S11	26 Mar 2024	956	10000	1600e	580
S12	05 Mar 2024	1000	2e	<2	4e
S12	12 Mar 2024	1058	60e	2e	10e
S12	19 Mar 2024	1002	<2	<2	<2
S12	26 Mar 2024	1020	820	110	26e
S4	05 Mar 2024	826	2400e	600	160e
S4	12 Mar 2024	901	>16000	7400	800e
S4	19 Mar 2024	827	2800e	560	420
S4	26 Mar 2024	829	>16000	>12000	>12000
S5	05 Mar 2024	924	>16000	>12000	>12000
S5	12 Mar 2024	1006	5400	260e	100e
S5	19 Mar 2024	921	>16000	>12000	>12000
S5	26 Mar 2024	939	>16000	>12000	9000
S6	05 Mar 2024	948	20e	2e	24e
S6	12 Mar 2024	1039	120e	10e	10e
S6	19 Mar 2024	947	4e	6e	<2
S6	26 Mar 2024	1009	1800e	460	98
S8	05 Mar 2024	1018	<2	2e	<2
S8	12 Mar 2024	1114	6e	<2	<2
S8	19 Mar 2024	1018	<20	<2	<2
S8	26 Mar 2024	1037	20e	4e	4e
S9	05 Mar 2024	1036	2e	<2	<2
S9	12 Mar 2024	1131	<20	4e	2e
S9	19 Mar 2024	1035	4e	4e	<2
S9	26 Mar 2024	1055	20e	2e	<2

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S10	05 Mar 2024	Arrive Time	813
S10	05 Mar 2024	Weather	Cloudy
S10	05 Mar 2024	Wind Speed (kts)	4.2
S10	05 Mar 2024	Wind Dir	E
S10	05 Mar 2024	Animal Life	
S10	05 Mar 2024	Floatables	None
S10	05 Mar 2024	Water Color	Green
S10	05 Mar 2024	Current Direction	S
S10	05 Mar 2024	Water Temp (C)	12.1
S10	05 Mar 2024	Wave Height (ft)	6
S10	05 Mar 2024	High Tide (ft)	4.66
S10	05 Mar 2024	High Tide Time	423
S10	05 Mar 2024	Low Tide (ft)	-0.39
S10	05 Mar 2024	Low Tide Time	1220
S10	05 Mar 2024	Comments	Water clear; Trash-3; Kelp;Debris;Seagrass; Sewage-like odor
S10	12 Mar 2024	Arrive Time	843
S10	12 Mar 2024	Weather	Overcast
S10	12 Mar 2024	Wind Speed (kts)	2.3
S10	12 Mar 2024	Wind Dir	W
S10	12 Mar 2024	Animal Life	
S10	12 Mar 2024	Floatables	None
S10	12 Mar 2024	Water Color	Green
S10	12 Mar 2024	Current Direction	S
S10	12 Mar 2024	Water Temp (C)	13.2
S10	12 Mar 2024	Wave Height (ft)	3
S10	12 Mar 2024	High Tide (ft)	4.78
S10	12 Mar 2024	High Tide Time	1113
S10	12 Mar 2024	Low Tide (ft)	-0.32
S10	12 Mar 2024	Low Tide Time	516
S10	12 Mar 2024	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris; Sewage-like odor
S10	19 Mar 2024	Arrive Time	814
S10	19 Mar 2024	Weather	Sunny
S10	19 Mar 2024	Wind Speed (kts)	3.2
S10	19 Mar 2024	Wind Dir	E
S10	19 Mar 2024	Animal Life	
S10	19 Mar 2024	Floatables	None
S10	19 Mar 2024	Water Color	Green
S10	19 Mar 2024	Current Direction	S
S10	19 Mar 2024	Water Temp (C)	11.1
S10	19 Mar 2024	Wave Height (ft)	5
S10	19 Mar 2024	High Tide (ft)	4.46
S10	19 Mar 2024	High Tide Time	612
S10	19 Mar 2024	Low Tide (ft)	2.48
S10	19 Mar 2024	Low Tide Time	36
S10	19 Mar 2024	Comments	Water clear; Trash-3; Debris;Seagrass;Kelp
S10	26 Mar 2024	Arrive Time	843
S10	26 Mar 2024	Weather	Cloudy
S10	26 Mar 2024	Wind Speed (kts)	5.5
S10	26 Mar 2024	Wind Dir	SW
S10	26 Mar 2024	Animal Life	
S10	26 Mar 2024	Floatables	None

Station	Date	Parameter	Value
S10	26 Mar 2024	Water Color	Green
S10	26 Mar 2024	Current Direction	S
S10	26 Mar 2024	Water Temp (C)	10.9
S10	26 Mar 2024	Wave Height (ft)	5
S10	26 Mar 2024	High Tide (ft)	4.22
S10	26 Mar 2024	High Tide Time	1022
S10	26 Mar 2024	Low Tide (ft)	0.23
S10	26 Mar 2024	Low Tide Time	430
S10	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S11	05 Mar 2024	Arrive Time	938
S11	05 Mar 2024	Weather	Partly cloudy
S11	05 Mar 2024	Wind Speed (kts)	3.4
S11	05 Mar 2024	Wind Dir	E
S11	05 Mar 2024	Animal Life	
S11	05 Mar 2024	Floatables	None
S11	05 Mar 2024	Water Color	Green
S11	05 Mar 2024	Current Direction	S
S11	05 Mar 2024	Water Temp (C)	12.8
S11	05 Mar 2024	Wave Height (ft)	6
S11	05 Mar 2024	High Tide (ft)	4.66
S11	05 Mar 2024	High Tide Time	423
S11	05 Mar 2024	Low Tide (ft)	-0.39
S11	05 Mar 2024	Low Tide Time	1220
S11	05 Mar 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S11	12 Mar 2024	Arrive Time	1026
S11	12 Mar 2024	Weather	Partly cloudy
S11	12 Mar 2024	Wind Speed (kts)	6.9
S11	12 Mar 2024	Wind Dir	W
S11	12 Mar 2024	Animal Life	
S11	12 Mar 2024	Floatables	Foam
S11	12 Mar 2024	Water Color	Green
S11	12 Mar 2024	Current Direction	S
S11	12 Mar 2024	Water Temp (C)	13.6
S11	12 Mar 2024	Wave Height (ft)	3
S11	12 Mar 2024	High Tide (ft)	4.78
S11	12 Mar 2024	High Tide Time	1113
S11	12 Mar 2024	Low Tide (ft)	-0.32
S11	12 Mar 2024	Low Tide Time	516
S11	12 Mar 2024	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris
S11	19 Mar 2024	Arrive Time	936
S11	19 Mar 2024	Weather	Sunny
S11	19 Mar 2024	Wind Speed (kts)	4.5
S11	19 Mar 2024	Wind Dir	W
S11	19 Mar 2024	Animal Life	
S11	19 Mar 2024	Floatables	None
S11	19 Mar 2024	Water Color	Green
S11	19 Mar 2024	Current Direction	S
S11	19 Mar 2024	Water Temp (C)	11.6
S11	19 Mar 2024	Wave Height (ft)	5
S11	19 Mar 2024	High Tide (ft)	4.46
S11	19 Mar 2024	High Tide Time	612
S11	19 Mar 2024	Low Tide (ft)	2.48
S11	19 Mar 2024	Low Tide Time	36
S11	19 Mar 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S11	26 Mar 2024	Arrive Time	956
S11	26 Mar 2024	Weather	Cloudy
S11	26 Mar 2024	Wind Speed (kts)	3.4

Station	Date	Parameter	Value
S11	26 Mar 2024	Wind Dir	NW
S11	26 Mar 2024	Animal Life	
S11	26 Mar 2024	Floatables	None
S11	26 Mar 2024	Water Color	Green
S11	26 Mar 2024	Current Direction	S
S11	26 Mar 2024	Water Temp (C)	11.2
S11	26 Mar 2024	Wave Height (ft)	4
S11	26 Mar 2024	High Tide (ft)	4.22
S11	26 Mar 2024	High Tide Time	1022
S11	26 Mar 2024	Low Tide (ft)	0.23
S11	26 Mar 2024	Low Tide Time	430
S11	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1; Sewage-like odor
S12	05 Mar 2024	Arrive Time	1000
S12	05 Mar 2024	Weather	Partly cloudy
S12	05 Mar 2024	Wind Speed (kts)	0.3
S12	05 Mar 2024	Wind Dir	W
S12	05 Mar 2024	Animal Life	
S12	05 Mar 2024	Floatables	None
S12	05 Mar 2024	Water Color	Green
S12	05 Mar 2024	Current Direction	S
S12	05 Mar 2024	Water Temp (C)	12.1
S12	05 Mar 2024	Wave Height (ft)	4
S12	05 Mar 2024	High Tide (ft)	4.66
S12	05 Mar 2024	High Tide Time	423
S12	05 Mar 2024	Low Tide (ft)	-0.39
S12	05 Mar 2024	Low Tide Time	1220
S12	05 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S12	12 Mar 2024	Arrive Time	1058
S12	12 Mar 2024	Weather	Partly cloudy
S12	12 Mar 2024	Wind Speed (kts)	4.9
S12	12 Mar 2024	Wind Dir	W
S12	12 Mar 2024	Animal Life	Dog-1;
S12	12 Mar 2024	Floatables	None
S12	12 Mar 2024	Water Color	Green
S12	12 Mar 2024	Current Direction	S
S12	12 Mar 2024	Water Temp (C)	15.6
S12	12 Mar 2024	Wave Height (ft)	4
S12	12 Mar 2024	High Tide (ft)	4.78
S12	12 Mar 2024	High Tide Time	1113
S12	12 Mar 2024	Low Tide (ft)	-0.32
S12	12 Mar 2024	Low Tide Time	516
S12	12 Mar 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S12	19 Mar 2024	Arrive Time	1002
S12	19 Mar 2024	Weather	Sunny
S12	19 Mar 2024	Wind Speed (kts)	5.4
S12	19 Mar 2024	Wind Dir	SW
S12	19 Mar 2024	Animal Life	Bird-2;
S12	19 Mar 2024	Floatables	None
S12	19 Mar 2024	Water Color	Green
S12	19 Mar 2024	Current Direction	S
S12	19 Mar 2024	Water Temp (C)	13.4
S12	19 Mar 2024	Wave Height (ft)	4
S12	19 Mar 2024	High Tide (ft)	4.46
S12	19 Mar 2024	High Tide Time	612
S12	19 Mar 2024	Low Tide (ft)	2.48

Station	Date	Parameter	Value
S12	19 Mar 2024	Low Tide Time	36
S12	19 Mar 2024	Comments	Water clear; Trash-1; Debris
S12	26 Mar 2024	Arrive Time	1020
S12	26 Mar 2024	Weather	Cloudy
S12	26 Mar 2024	Wind Speed (kts)	3.7
S12	26 Mar 2024	Wind Dir	W
S12	26 Mar 2024	Animal Life	
S12	26 Mar 2024	Floatables	None
S12	26 Mar 2024	Water Color	Green
S12	26 Mar 2024	Current Direction	S
S12	26 Mar 2024	Water Temp (C)	9.1
S12	26 Mar 2024	Wave Height (ft)	3
S12	26 Mar 2024	High Tide (ft)	4.22
S12	26 Mar 2024	High Tide Time	1022
S12	26 Mar 2024	Low Tide (ft)	0.23
S12	26 Mar 2024	Low Tide Time	430
S12	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Sewage-like odor
S4	05 Mar 2024	Arrive Time	826
S4	05 Mar 2024	Weather	Partly cloudy
S4	05 Mar 2024	Wind Speed (kts)	2.3
S4	05 Mar 2024	Wind Dir	E
S4	05 Mar 2024	Animal Life	
S4	05 Mar 2024	Floatables	None
S4	05 Mar 2024	Water Color	Green
S4	05 Mar 2024	Current Direction	S
S4	05 Mar 2024	Water Temp (C)	10.8
S4	05 Mar 2024	Wave Height (ft)	5.5
S4	05 Mar 2024	High Tide (ft)	4.66
S4	05 Mar 2024	High Tide Time	423
S4	05 Mar 2024	Low Tide (ft)	-0.39
S4	05 Mar 2024	Low Tide Time	1220
S4	05 Mar 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S4	12 Mar 2024	Arrive Time	901
S4	12 Mar 2024	Weather	Partly cloudy
S4	12 Mar 2024	Wind Speed (kts)	4.4
S4	12 Mar 2024	Wind Dir	W
S4	12 Mar 2024	Animal Life	Bird-10;
S4	12 Mar 2024	Floatables	Foam
S4	12 Mar 2024	Water Color	Green
S4	12 Mar 2024	Current Direction	S
S4	12 Mar 2024	Water Temp (C)	13.1
S4	12 Mar 2024	Wave Height (ft)	4
S4	12 Mar 2024	High Tide (ft)	4.78
S4	12 Mar 2024	High Tide Time	1113
S4	12 Mar 2024	Low Tide (ft)	-0.32
S4	12 Mar 2024	Low Tide Time	516
S4	12 Mar 2024	Comments	Water clear; Trash-5; Kelp;Seagrass;Debris
S4	19 Mar 2024	Arrive Time	827
S4	19 Mar 2024	Weather	Sunny
S4	19 Mar 2024	Wind Speed (kts)	2.6
S4	19 Mar 2024	Wind Dir	SE
S4	19 Mar 2024	Animal Life	
S4	19 Mar 2024	Floatables	None
S4	19 Mar 2024	Water Color	Green
S4	19 Mar 2024	Current Direction	S
S4	19 Mar 2024	Water Temp (C)	12.7
S4	19 Mar 2024	Wave Height (ft)	4

Station	Date	Parameter	Value
S4	19 Mar 2024	High Tide (ft)	4.46
S4	19 Mar 2024	High Tide Time	612
S4	19 Mar 2024	Low Tide (ft)	2.48
S4	19 Mar 2024	Low Tide Time	36
S4	19 Mar 2024	Comments	Water clear; Trash-3; Debris
S4	26 Mar 2024	Arrive Time	829
S4	26 Mar 2024	Weather	Cloudy
S4	26 Mar 2024	Wind Speed (kts)	7.5
S4	26 Mar 2024	Wind Dir	SW
S4	26 Mar 2024	Animal Life	
S4	26 Mar 2024	Floatables	None
S4	26 Mar 2024	Water Color	Green
S4	26 Mar 2024	Current Direction	S
S4	26 Mar 2024	Water Temp (C)	9.6
S4	26 Mar 2024	Wave Height (ft)	4
S4	26 Mar 2024	High Tide (ft)	4.22
S4	26 Mar 2024	High Tide Time	1022
S4	26 Mar 2024	Low Tide (ft)	0.23
S4	26 Mar 2024	Low Tide Time	430
S4	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S5	05 Mar 2024	Arrive Time	924
S5	05 Mar 2024	Weather	Partly cloudy
S5	05 Mar 2024	Wind Speed (kts)	5.6
S5	05 Mar 2024	Wind Dir	E
S5	05 Mar 2024	Animal Life	
S5	05 Mar 2024	Floatables	None
S5	05 Mar 2024	Water Color	Green
S5	05 Mar 2024	Current Direction	S
S5	05 Mar 2024	Water Temp (C)	10.5
S5	05 Mar 2024	Wave Height (ft)	5
S5	05 Mar 2024	High Tide (ft)	4.66
S5	05 Mar 2024	High Tide Time	423
S5	05 Mar 2024	Low Tide (ft)	-0.39
S5	05 Mar 2024	Low Tide Time	1220
S5	05 Mar 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Smell of soap/laundry detergent also detected ; Sewage-like odor
S5	12 Mar 2024	Arrive Time	1006
S5	12 Mar 2024	Weather	Partly cloudy
S5	12 Mar 2024	Wind Speed (kts)	5.7
S5	12 Mar 2024	Wind Dir	W
S5	12 Mar 2024	Animal Life	
S5	12 Mar 2024	Floatables	Foam
S5	12 Mar 2024	Water Color	Green
S5	12 Mar 2024	Current Direction	S
S5	12 Mar 2024	Water Temp (C)	16.2
S5	12 Mar 2024	Wave Height (ft)	4
S5	12 Mar 2024	High Tide (ft)	4.78
S5	12 Mar 2024	High Tide Time	1113
S5	12 Mar 2024	Low Tide (ft)	-0.32
S5	12 Mar 2024	Low Tide Time	516
S5	12 Mar 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S5	19 Mar 2024	Arrive Time	921
S5	19 Mar 2024	Weather	Sunny
S5	19 Mar 2024	Wind Speed (kts)	3.6
S5	19 Mar 2024	Wind Dir	SW
S5	19 Mar 2024	Animal Life	
S5	19 Mar 2024	Floatables	None

Station	Date	Parameter	Value
S5	19 Mar 2024	Water Color	Green
S5	19 Mar 2024	Current Direction	S
S5	19 Mar 2024	Water Temp (C)	12.9
S5	19 Mar 2024	Wave Height (ft)	3
S5	19 Mar 2024	High Tide (ft)	4.46
S5	19 Mar 2024	High Tide Time	612
S5	19 Mar 2024	Low Tide (ft)	2.48
S5	19 Mar 2024	Low Tide Time	36
S5	19 Mar 2024	Comments	Water clear; Trash-3; Kelp;Algae
S5	26 Mar 2024	Arrive Time	939
S5	26 Mar 2024	Weather	Cloudy
S5	26 Mar 2024	Wind Speed (kts)	4.5
S5	26 Mar 2024	Wind Dir	SW
S5	26 Mar 2024	Animal Life	
S5	26 Mar 2024	Floatables	None
S5	26 Mar 2024	Water Color	Green
S5	26 Mar 2024	Current Direction	S
S5	26 Mar 2024	Water Temp (C)	11.6
S5	26 Mar 2024	Wave Height (ft)	3
S5	26 Mar 2024	High Tide (ft)	4.22
S5	26 Mar 2024	High Tide Time	1022
S5	26 Mar 2024	Low Tide (ft)	0.23
S5	26 Mar 2024	Low Tide Time	430
S5	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S6	05 Mar 2024	Arrive Time	948
S6	05 Mar 2024	Weather	Partly cloudy
S6	05 Mar 2024	Wind Speed (kts)	1.1
S6	05 Mar 2024	Wind Dir	E
S6	05 Mar 2024	Animal Life	
S6	05 Mar 2024	Floatables	None
S6	05 Mar 2024	Water Color	Green
S6	05 Mar 2024	Current Direction	S
S6	05 Mar 2024	Water Temp (C)	12.8
S6	05 Mar 2024	Wave Height (ft)	5.5
S6	05 Mar 2024	High Tide (ft)	4.66
S6	05 Mar 2024	High Tide Time	423
S6	05 Mar 2024	Low Tide (ft)	-0.39
S6	05 Mar 2024	Low Tide Time	1220
S6	05 Mar 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris;Algae; Person/Walker/Jogger-1
S6	12 Mar 2024	Arrive Time	1039
S6	12 Mar 2024	Weather	Partly cloudy
S6	12 Mar 2024	Wind Speed (kts)	6.2
S6	12 Mar 2024	Wind Dir	W
S6	12 Mar 2024	Animal Life	
S6	12 Mar 2024	Floatables	Foam
S6	12 Mar 2024	Water Color	Green
S6	12 Mar 2024	Current Direction	S
S6	12 Mar 2024	Water Temp (C)	16
S6	12 Mar 2024	Wave Height (ft)	4
S6	12 Mar 2024	High Tide (ft)	4.78
S6	12 Mar 2024	High Tide Time	1113
S6	12 Mar 2024	Low Tide (ft)	-0.32
S6	12 Mar 2024	Low Tide Time	516
S6	12 Mar 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris; Person/Walker/Jogger-2
S6	19 Mar 2024	Arrive Time	947

Station	Date	Parameter	Value
S6	19 Mar 2024	Weather	Sunny
S6	19 Mar 2024	Wind Speed (kts)	5.9
S6	19 Mar 2024	Wind Dir	SW
S6	19 Mar 2024	Animal Life	
S6	19 Mar 2024	Floatables	None
S6	19 Mar 2024	Water Color	Green
S6	19 Mar 2024	Current Direction	S
S6	19 Mar 2024	Water Temp (C)	12
S6	19 Mar 2024	Wave Height (ft)	5
S6	19 Mar 2024	High Tide (ft)	4.46
S6	19 Mar 2024	High Tide Time	612
S6	19 Mar 2024	Low Tide (ft)	2.48
S6	19 Mar 2024	Low Tide Time	36
S6	19 Mar 2024	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Algae;Debris; Person/Walker/Jogger-6
S6	26 Mar 2024	Arrive Time	1009
S6	26 Mar 2024	Weather	Cloudy
S6	26 Mar 2024	Wind Speed (kts)	6.6
S6	26 Mar 2024	Wind Dir	W
S6	26 Mar 2024	Animal Life	
S6	26 Mar 2024	Floatables	None
S6	26 Mar 2024	Water Color	Green
S6	26 Mar 2024	Current Direction	S
S6	26 Mar 2024	Water Temp (C)	11.1
S6	26 Mar 2024	Wave Height (ft)	4
S6	26 Mar 2024	High Tide (ft)	4.22
S6	26 Mar 2024	High Tide Time	1022
S6	26 Mar 2024	Low Tide (ft)	0.23
S6	26 Mar 2024	Low Tide Time	430
S6	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Sewage-like odor
S8	05 Mar 2024	Arrive Time	1018
S8	05 Mar 2024	Weather	Partly cloudy
S8	05 Mar 2024	Wind Speed (kts)	5
S8	05 Mar 2024	Wind Dir	W
S8	05 Mar 2024	Animal Life	
S8	05 Mar 2024	Floatables	None
S8	05 Mar 2024	Water Color	Green
S8	05 Mar 2024	Current Direction	S
S8	05 Mar 2024	Water Temp (C)	13.5
S8	05 Mar 2024	Wave Height (ft)	4
S8	05 Mar 2024	High Tide (ft)	4.66
S8	05 Mar 2024	High Tide Time	423
S8	05 Mar 2024	Low Tide (ft)	-0.39
S8	05 Mar 2024	Low Tide Time	1220
S8	05 Mar 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	12 Mar 2024	Arrive Time	1114
S8	12 Mar 2024	Weather	Partly cloudy
S8	12 Mar 2024	Wind Speed (kts)	7.3
S8	12 Mar 2024	Wind Dir	W
S8	12 Mar 2024	Animal Life	
S8	12 Mar 2024	Floatables	Foam
S8	12 Mar 2024	Water Color	Green
S8	12 Mar 2024	Current Direction	S
S8	12 Mar 2024	Water Temp (C)	11.7
S8	12 Mar 2024	Wave Height (ft)	4
S8	12 Mar 2024	High Tide (ft)	4.78
S8	12 Mar 2024	High Tide Time	1113
S8	12 Mar 2024	Low Tide (ft)	-0.32

Station	Date	Parameter	Value
S8	12 Mar 2024	Low Tide Time	516
S8	12 Mar 2024	Comments	Water clear; Boogie boarder/Swimmer-4; Trash-3; Kelp;Sea-grass;Debris; Person/Walker/Jogger-3
S8	19 Mar 2024	Arrive Time	1018
S8	19 Mar 2024	Weather	Sunny
S8	19 Mar 2024	Wind Speed (kts)	6.6
S8	19 Mar 2024	Wind Dir	W
S8	19 Mar 2024	Animal Life	
S8	19 Mar 2024	Floatables	None
S8	19 Mar 2024	Water Color	Green
S8	19 Mar 2024	Current Direction	S
S8	19 Mar 2024	Water Temp (C)	11.9
S8	19 Mar 2024	Wave Height (ft)	3
S8	19 Mar 2024	High Tide (ft)	4.46
S8	19 Mar 2024	High Tide Time	612
S8	19 Mar 2024	Low Tide (ft)	2.48
S8	19 Mar 2024	Low Tide Time	36
S8	19 Mar 2024	Comments	Water clear; Trash-1; Debris; Person/Walker/Jogger-2
S8	26 Mar 2024	Arrive Time	1037
S8	26 Mar 2024	Weather	Cloudy
S8	26 Mar 2024	Wind Speed (kts)	5.1
S8	26 Mar 2024	Wind Dir	W
S8	26 Mar 2024	Animal Life	
S8	26 Mar 2024	Floatables	None
S8	26 Mar 2024	Water Color	Green
S8	26 Mar 2024	Current Direction	S
S8	26 Mar 2024	Water Temp (C)	9.2
S8	26 Mar 2024	Wave Height (ft)	3
S8	26 Mar 2024	High Tide (ft)	4.22
S8	26 Mar 2024	High Tide Time	1022
S8	26 Mar 2024	Low Tide (ft)	0.23
S8	26 Mar 2024	Low Tide Time	430
S8	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S9	05 Mar 2024	Arrive Time	1036
S9	05 Mar 2024	Weather	Sunny
S9	05 Mar 2024	Wind Speed (kts)	5.6
S9	05 Mar 2024	Wind Dir	W
S9	05 Mar 2024	Animal Life	
S9	05 Mar 2024	Floatables	Foam
S9	05 Mar 2024	Water Color	Green
S9	05 Mar 2024	Current Direction	S
S9	05 Mar 2024	Water Temp (C)	14.3
S9	05 Mar 2024	Wave Height (ft)	4
S9	05 Mar 2024	High Tide (ft)	4.66
S9	05 Mar 2024	High Tide Time	423
S9	05 Mar 2024	Low Tide (ft)	-0.39
S9	05 Mar 2024	Low Tide Time	1220
S9	05 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S9	12 Mar 2024	Arrive Time	1131
S9	12 Mar 2024	Weather	Partly cloudy
S9	12 Mar 2024	Wind Speed (kts)	4.8
S9	12 Mar 2024	Wind Dir	W
S9	12 Mar 2024	Animal Life	
S9	12 Mar 2024	Floatables	Foam
S9	12 Mar 2024	Water Color	Green
S9	12 Mar 2024	Current Direction	S

Station	Date	Parameter	Value
S9	12 Mar 2024	Water Temp (C)	13
S9	12 Mar 2024	Wave Height (ft)	3
S9	12 Mar 2024	High Tide (ft)	4.78
S9	12 Mar 2024	High Tide Time	1113
S9	12 Mar 2024	Low Tide (ft)	-0.32
S9	12 Mar 2024	Low Tide Time	516
S9	12 Mar 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S9	19 Mar 2024	Arrive Time	1035
S9	19 Mar 2024	Weather	Sunny
S9	19 Mar 2024	Wind Speed (kts)	3
S9	19 Mar 2024	Wind Dir	W
S9	19 Mar 2024	Animal Life	
S9	19 Mar 2024	Floatables	None
S9	19 Mar 2024	Water Color	Green
S9	19 Mar 2024	Current Direction	S
S9	19 Mar 2024	Water Temp (C)	12.2
S9	19 Mar 2024	Wave Height (ft)	4
S9	19 Mar 2024	High Tide (ft)	4.46
S9	19 Mar 2024	High Tide Time	612
S9	19 Mar 2024	Low Tide (ft)	2.48
S9	19 Mar 2024	Low Tide Time	36
S9	19 Mar 2024	Comments	Water clear; Boogie boarder/Swimmer-2; Trash-1; Debris; Person/Walker/Jogger-2
S9	26 Mar 2024	Arrive Time	1055
S9	26 Mar 2024	Weather	Cloudy
S9	26 Mar 2024	Wind Speed (kts)	4.2
S9	26 Mar 2024	Wind Dir	NW
S9	26 Mar 2024	Animal Life	
S9	26 Mar 2024	Floatables	None
S9	26 Mar 2024	Water Color	Green
S9	26 Mar 2024	Current Direction	S
S9	26 Mar 2024	Water Temp (C)	10.9
S9	26 Mar 2024	Wave Height (ft)	2
S9	26 Mar 2024	High Tide (ft)	4.22
S9	26 Mar 2024	High Tide Time	1022
S9	26 Mar 2024	Low Tide (ft)	0.23
S9	26 Mar 2024	Low Tide Time	430
S9	26 Mar 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Sewage-like odor

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
01 Mar 2024	*1241	*272	*77	*84	*53	*5	*2734
02 Mar 2024	*1241	*272	*77	*84	*53	*5	*2734
03 Mar 2024	*1241	*272	*77	*84	*53	*5	*2734
04 Mar 2024	*1241	*272	*77	*84	*53	*5	*2734
05 Mar 2024	*1241	*272	*77	*84	*53	*5	*2734
06 Mar 2024	755	292	41	40	28	4	3326
07 Mar 2024	755	292	41	40	28	4	3326
08 Mar 2024	755	292	41	40	28	4	3326
09 Mar 2024	755	292	41	40	28	4	3326
10 Mar 2024	*448	*147	*16	*21	*9	*3	*3051
11 Mar 2024	*448	*147	*16	*21	*9	*3	*3051
12 Mar 2024	803	166	27	25	9	8	2019
13 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
14 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
15 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
16 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
17 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
18 Mar 2024	*1015	*187	*49	*48	*9	*11	*2383
19 Mar 2024	745	94	26	25	6	8	2833
20 Mar 2024	745	94	26	25	6	8	2833
21 Mar 2024	745	94	26	25	6	8	2833
22 Mar 2024	*560	*217	*41	*29	*7	*9	*2224
23 Mar 2024	*560	*217	*41	*29	*7	*9	*2224
24 Mar 2024	*560	*217	*41	*29	*7	*9	*2224
25 Mar 2024	*560	*217	*41	*29	*7	*9	*2224
26 Mar 2024	959	356	85	50	10	6	2892
27 Mar 2024	959	356	85	50	10	6	2892
28 Mar 2024	*1110	*202	*39	*18	*7	*9	*3389
29 Mar 2024	*1110	*202	*39	*18	*7	*9	*3389
30 Mar 2024	*1110	*202	*39	*18	*7	*9	*3389
31 Mar 2024	*1110	*202	*39	*18	*7	*9	*3389

* Geometric mean calculated using n<5

Table 3.2

Summary of compliance at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
06 Mar 2024	IC	E	IC	IC	IC	IC	E
12 Mar 2024	E	E	IC	IC	IC	E	E
19 Mar 2024	IC	IC	IC	IC	IC	IC	E
26 Mar 2024	E	E	E	E	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

Summary of compliance with the Ocean Plan's 6-week Geometric Mean standard for *Enterococcus* at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
01 Mar 2024	577	294	185	239	234	21	1203
02 Mar 2024	577	294	185	239	234	21	1203
03 Mar 2024	577	294	185	239	234	21	1203
04 Mar 2024	577	294	185	239	234	21	1203
05 Mar 2024	577	294	185	239	234	21	1203
06 Mar 2024	286	196	62	71	80	9	1202
07 Mar 2024	286	196	62	71	80	9	1202
08 Mar 2024	286	196	62	71	80	9	1202
09 Mar 2024	286	196	62	71	80	9	1202
10 Mar 2024	286	196	62	71	80	9	1202
11 Mar 2024	286	196	62	71	80	9	1202
12 Mar 2024	454	178	62	41	46	10	1279
13 Mar 2024	454	178	62	41	46	10	1279
14 Mar 2024	454	178	62	41	46	10	1279
15 Mar 2024	454	178	62	41	46	10	1279
16 Mar 2024	454	178	62	41	46	10	1279
17 Mar 2024	454	178	62	41	46	10	1279
18 Mar 2024	454	178	62	41	46	10	1279
19 Mar 2024	375	101	38	26	32	8	1566
20 Mar 2024	375	101	38	26	32	8	1566
21 Mar 2024	375	101	38	26	32	8	1566
22 Mar 2024	261	59	20	14	13	6	1505
23 Mar 2024	261	59	20	14	13	6	1505
24 Mar 2024	261	59	20	14	13	6	1505
25 Mar 2024	236	44	18	15	8	8	1691
26 Mar 2024	365	67	30	22	9	6	1792
27 Mar 2024	365	67	30	22	9	6	1792
28 Mar 2024	365	67	30	22	9	6	1792
29 Mar 2024	365	67	30	22	9	6	1792
30 Mar 2024	365	67	30	22	9	6	1792
31 Mar 2024	365	67	30	22	9	6	1792

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO 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	I19	I24	I25	I26	I32	I39	I40
March	E	E	E	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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

Date	119		124		125		126		132		139		140		
	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	2m	6m	
01 Mar 2024	*11600	*8100	*3200	*7700	*7003	*780	*4001	*680	*3330	*177	*100	*230	*11600	*10800	*4500
02 Mar 2024	*11600	*8100	*3200	*7700	*7003	*780	*4001	*680	*3330	*177	*100	*230	*11600	*10800	*4500
03 Mar 2024	*11600	*8100	*3200	*7700	*7003	*780	*4001	*680	*3330	*177	*100	*230	*11600	*10800	*4500
04 Mar 2024	*11600	*8100	*3200	*7700	*7003	*780	*4001	*680	*3330	*177	*100	*230	*11600	*10800	*4500
05 Mar 2024	*11600	*8100	*3200	*7700	*7003	*780	*4001	*680	*3330	*177	*100	*230	*11600	*10800	*4500
06 Mar 2024	7200	8000	2000	6800	10	60	2	60	60	14	20	200	16000	9600	5600
07 Mar 2024	7200	8000	2000	6800	10	60	2	60	60	14	20	200	16000	9600	5600
08 Mar 2024	7200	8000	2000	6800	10	60	2	60	60	14	20	200	16000	9600	5600
09 Mar 2024	7200	8000	2000	6800	10	60	2	60	60	14	20	200	16000	9600	5600
10 Mar 2024	*4200	*4700	*1700	*3560	*8	*43	*2	*34	*52	*8	*20	*111	*11600	*8100	*8800
11 Mar 2024	*4200	*4700	*1700	*3560	*8	*43	*2	*34	*52	*8	*20	*111	*11600	*8100	*8800
12 Mar 2024	7200	8000	2000	5600	10	60	2	60	60	4	20	200	7200	6600	5600
13 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
14 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
15 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
16 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
17 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
18 Mar 2024	*8600	*8100	*6700	*2960	*455	*713	*61	*450	*730	*3	*20	*111	*10600	*5800	*4500
19 Mar 2024	1200	8000	1400	320	10	26	2	60	60	2	20	22	16000	9600	3400
20 Mar 2024	1200	8000	1400	320	10	26	2	60	60	2	20	22	16000	9600	3400
21 Mar 2024	1200	8000	1400	320	10	26	2	60	60	2	20	22	16000	9600	3400
22 Mar 2024	*870	*4900	*900	*2960	*455	*709	*61	*421	*704	*3	*16	*14	*10600	*5800	*3400
23 Mar 2024	*870	*4900	*900	*2960	*455	*709	*61	*421	*704	*3	*16	*14	*10600	*5800	*3400
24 Mar 2024	*870	*4900	*900	*2960	*455	*709	*61	*421	*704	*3	*16	*14	*10600	*5800	*3400
25 Mar 2024	*870	*4900	*900	*2960	*455	*709	*61	*421	*704	*3	*16	*14	*10600	*5800	*3400
26 Mar 2024	1200	8200	1400	3000	900	1400	120	680	340	4	20	22	16000	9600	3400
27 Mar 2024	1200	8200	1400	3000	900	1400	120	680	340	4	20	22	16000	9600	3400
28 Mar 2024	*8270	*8800	*6200	*1660	*455	*709	*61	*341	*174	*3	*47	*43	*16000	*9000	*9700
29 Mar 2024	*8270	*8800	*6200	*1660	*455	*709	*61	*341	*174	*3	*47	*43	*16000	*9000	*9700
30 Mar 2024	*8270	*8800	*6200	*1660	*455	*709	*61	*341	*174	*3	*47	*43	*16000	*9000	*9700
31 Mar 2024	*8270	*8800	*6200	*1660	*455	*709	*61	*341	*174	*3	*47	*43	*16000	*9000	*9700

* Median calculated using n<5

Table 3.6

Summary of compliance at the SBOO 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% of samples per station, per month.

	I19			I24			I25			I26			I32			I39			I40			
Date	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m	
March	E	E	E	E	E	E	E	E	E	E	E	E	IC	E	E	E	E	E	E	E	E	E

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

Table 3.7

Summary of water quality parameters at the SBOO 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
I19	06 Mar 2024	1027	2	280e	120	14e
I19	06 Mar 2024	1027	6	420	94	12e
I19	06 Mar 2024	1027	11	180e	96	24e
I19	12 Mar 2024	1055	2	>16000	>12000	3400e
I19	12 Mar 2024	1055	6	>16000	>12000	1800e
I19	12 Mar 2024	1055	11	12000	800e	680
I19	19 Mar 2024	1031	2	540	240e	20e
I19	19 Mar 2024	1031	6	1600	340e	120e
I19	19 Mar 2024	1031	11	400	66	220e
I19	26 Mar 2024	1104	2	>16000	>12000	3400e
I19	26 Mar 2024	1104	6	>16000	4400	1200e
I19	26 Mar 2024	1104	11	>16000	8400	5000
I24	06 Mar 2024	1047	2	5600	1000e	540
I24	06 Mar 2024	1047	6	180e	54	16e
I24	06 Mar 2024	1047	11	320e	120e	38e
I24	12 Mar 2024	1112	2	4800	480	100
I24	12 Mar 2024	1112	6	1200	110	38e
I24	12 Mar 2024	1112	11	5600	240e	74
I24	19 Mar 2024	1049	2	28e	8e	6e
I24	19 Mar 2024	1049	6	8e	2e	<2
I24	19 Mar 2024	1049	11	80e	8e	<2
I24	26 Mar 2024	1123	2	>16000	4400	700
I24	26 Mar 2024	1123	6	13000	3000e	980
I24	26 Mar 2024	1123	11	3000e	360e	120
I25	06 Mar 2024	1058	2	10e	<2	<2
I25	06 Mar 2024	1058	6	18e	<2	<2
I25	06 Mar 2024	1058	9	10e	6e	4e
I25	12 Mar 2024	1119	2	900	100e	24e
I25	12 Mar 2024	1119	6	1400	340e	110
I25	12 Mar 2024	1119	9	2400e	200e	480
I25	19 Mar 2024	1054	2	<2	2e	<2
I25	19 Mar 2024	1054	6	2e	<2	<2
I25	19 Mar 2024	1054	9	8e	2e	2e
I25	26 Mar 2024	1130	2	14000	2400e	540
I25	26 Mar 2024	1130	6	12000	2000e	540
I25	26 Mar 2024	1130	9	4000	400	120
I26	06 Mar 2024	1106	2	<2	<2	<2
I26	06 Mar 2024	1106	6	2e	<2	2e
I26	06 Mar 2024	1106	9	2e	<2	4e

Station	Date	Time	Depth	Total	Fecal	Entero
I26	12 Mar 2024	1128	2	120	46	6e
I26	12 Mar 2024	1128	6	840	50	20e
I26	12 Mar 2024	1128	9	1400	72	18e
I26	19 Mar 2024	1103	2	<2	<2	<2
I26	19 Mar 2024	1103	6	2e	<2	<2
I26	19 Mar 2024	1103	9	8e	<2	<2
I26	26 Mar 2024	1139	2	8200	1200	280e
I26	26 Mar 2024	1139	6	680	110	52
I26	26 Mar 2024	1139	9	340e	26e	20e
I32	06 Mar 2024	1118	2	<2	<2	<2
I32	06 Mar 2024	1118	6	<20	2e	4e
I32	06 Mar 2024	1118	9	6e	<2	8e
I32	12 Mar 2024	1139	2	4e	<2	<2
I32	12 Mar 2024	1139	6	74	10e	<2
I32	12 Mar 2024	1139	9	380e	24e	30e
I32	19 Mar 2024	1114	2	<2	2e	<2
I32	19 Mar 2024	1114	6	2e	<2	<2
I32	19 Mar 2024	1114	9	4e	<2	8e
I32	26 Mar 2024	1151	2	60e	66	10e
I32	26 Mar 2024	1151	6	240e	66	20e
I32	26 Mar 2024	1151	9	80e	8e	24e
I39	06 Mar 2024	1005	2	2e	<2	<2
I39	06 Mar 2024	1005	12	4e	2e	<2
I39	06 Mar 2024	1005	18	<2	<2	<2
I39	12 Mar 2024	1033	2	7800	2000e	300e
I39	12 Mar 2024	1033	12	1200	50	48
I39	12 Mar 2024	1033	18	660	28e	24e
I39	19 Mar 2024	1010	2	<2	<2	<2
I39	19 Mar 2024	1010	12	<2	<2	<2
I39	19 Mar 2024	1010	18	<20	<2	2e
I39	26 Mar 2024	1039	2	<2	<2	<2
I39	26 Mar 2024	1039	12	<2	<2	<2
I39	26 Mar 2024	1039	18	8e	<2	<2
I40	06 Mar 2024	1038	2	>16000	9600	1800e
I40	06 Mar 2024	1038	6	1200	240e	120e
I40	06 Mar 2024	1038	9	>16000	>12000	>12000
I40	12 Mar 2024	1105	2	940	200e	80
I40	12 Mar 2024	1105	6	2000e	420	160e
I40	12 Mar 2024	1105	9	1200	540	1000e
I40	19 Mar 2024	1041	2	>16000	>12000	>12000
I40	19 Mar 2024	1041	6	>16000	4600	3400e
I40	19 Mar 2024	1041	9	3400e	400	440
I40	26 Mar 2024	1115	2	>16000	>12000	1200e
I40	26 Mar 2024	1115	6	>16000	8600	2800e
I40	26 Mar 2024	1115	9	>16000	4200	3200e

ns = not sampled

ND = no data

Table 3.8

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

Station	Date	Parameter	Value
I19	06 Mar 2024	Depth (m)	10
I19	06 Mar 2024	Arrive Time	1027
I19	06 Mar 2024	Depart Time	1030
I19	06 Mar 2024	Air Temp (C)	14.9
I19	06 Mar 2024	Weather	Partly Cloudy
I19	06 Mar 2024	Visibility (mi)	10
I19	06 Mar 2024	Wind Speed (kts)	5.8
I19	06 Mar 2024	Wind Dir	SW
I19	06 Mar 2024	Water Color	Green
I19	06 Mar 2024	Wave Height Low (ft)	3
I19	06 Mar 2024	Wave Period (sec)	14
I19	06 Mar 2024	Sea State	Light Chop
I19	06 Mar 2024	High Tide (ft)	5.29
I19	06 Mar 2024	High Tide Time	530
I19	06 Mar 2024	Low Tide (ft)	-0.96
I19	06 Mar 2024	Low Tide Time	1248
I19	06 Mar 2024	Comments	
I19	12 Mar 2024	Depth (m)	10
I19	12 Mar 2024	Arrive Time	1055
I19	12 Mar 2024	Depart Time	1105
I19	12 Mar 2024	Air Temp (C)	14.7
I19	12 Mar 2024	Weather	Overcast
I19	12 Mar 2024	Visibility (mi)	6
I19	12 Mar 2024	Wind Speed (kts)	9.8
I19	12 Mar 2024	Wind Dir	W
I19	12 Mar 2024	Water Color	Green
I19	12 Mar 2024	Wave Height Low (ft)	4
I19	12 Mar 2024	Wave Period (sec)	12
I19	12 Mar 2024	Sea State	Confused Swell
I19	12 Mar 2024	High Tide (ft)	5.54
I19	12 Mar 2024	High Tide Time	2324
I19	12 Mar 2024	Low Tide (ft)	-0.34
I19	12 Mar 2024	Low Tide Time	512
I19	12 Mar 2024	Comments	
I19	19 Mar 2024	Depth (m)	11
I19	19 Mar 2024	Arrive Time	1031
I19	19 Mar 2024	Depart Time	1034
I19	19 Mar 2024	Air Temp (C)	15.3
I19	19 Mar 2024	Weather	Partly Cloudy
I19	19 Mar 2024	Visibility (mi)	10
I19	19 Mar 2024	Wind Speed (kts)	10.3
I19	19 Mar 2024	Wind Dir	S
I19	19 Mar 2024	Water Color	Green
I19	19 Mar 2024	Wave Height Low (ft)	2
I19	19 Mar 2024	Wave Period (sec)	11
I19	19 Mar 2024	Sea State	Light Chop
I19	19 Mar 2024	High Tide (ft)	4.49
I19	19 Mar 2024	High Tide Time	606
I19	19 Mar 2024	Low Tide (ft)	-0.38
I19	19 Mar 2024	Low Tide Time	1336
I19	19 Mar 2024	Comments	
I19	26 Mar 2024	Depth (m)	9
I19	26 Mar 2024	Arrive Time	1104

Station	Date	Parameter	Value
I19	26 Mar 2024	Depart Time	1107
I19	26 Mar 2024	Air Temp (C)	14.2
I19	26 Mar 2024	Weather	Overcast
I19	26 Mar 2024	Visibility (mi)	4
I19	26 Mar 2024	Wind Speed (kts)	7.0
I19	26 Mar 2024	Wind Dir	S
I19	26 Mar 2024	Water Color	Green
I19	26 Mar 2024	Wave Height Low (ft)	6
I19	26 Mar 2024	Wave Period (sec)	10
I19	26 Mar 2024	Sea State	Confused Swell
I19	26 Mar 2024	High Tide (ft)	4.91
I19	26 Mar 2024	High Tide Time	2224
I19	26 Mar 2024	Low Tide (ft)	0.2
I19	26 Mar 2024	Low Tide Time	424
I19	26 Mar 2024	Comments	sewage like odor
I24	06 Mar 2024	Depth (m)	10
I24	06 Mar 2024	Arrive Time	1047
I24	06 Mar 2024	Depart Time	1052
I24	06 Mar 2024	Air Temp (C)	14.8
I24	06 Mar 2024	Weather	Partly Cloudy
I24	06 Mar 2024	Visibility (mi)	10
I24	06 Mar 2024	Wind Speed (kts)	8.5
I24	06 Mar 2024	Wind Dir	W
I24	06 Mar 2024	Water Color	Green
I24	06 Mar 2024	Wave Height Low (ft)	3
I24	06 Mar 2024	Wave Period (sec)	14
I24	06 Mar 2024	Sea State	Light Chop
I24	06 Mar 2024	High Tide (ft)	5.29
I24	06 Mar 2024	High Tide Time	530
I24	06 Mar 2024	Low Tide (ft)	-0.96
I24	06 Mar 2024	Low Tide Time	1248
I24	06 Mar 2024	Comments	
I24	12 Mar 2024	Depth (m)	12
I24	12 Mar 2024	Arrive Time	1112
I24	12 Mar 2024	Depart Time	1116
I24	12 Mar 2024	Air Temp (C)	14.7
I24	12 Mar 2024	Weather	Partly Cloudy
I24	12 Mar 2024	Visibility (mi)	6
I24	12 Mar 2024	Wind Speed (kts)	19.1
I24	12 Mar 2024	Wind Dir	W
I24	12 Mar 2024	Water Color	Green
I24	12 Mar 2024	Wave Height Low (ft)	4
I24	12 Mar 2024	Wave Period (sec)	12
I24	12 Mar 2024	Sea State	Confused Swell
I24	12 Mar 2024	High Tide (ft)	5.54
I24	12 Mar 2024	High Tide Time	2324
I24	12 Mar 2024	Low Tide (ft)	-0.34
I24	12 Mar 2024	Low Tide Time	512
I24	12 Mar 2024	Comments	
I24	19 Mar 2024	Depth (m)	10
I24	19 Mar 2024	Arrive Time	1049
I24	19 Mar 2024	Depart Time	1053
I24	19 Mar 2024	Air Temp (C)	15.3
I24	19 Mar 2024	Weather	Partly Cloudy
I24	19 Mar 2024	Visibility (mi)	10
I24	19 Mar 2024	Wind Speed (kts)	7.6
I24	19 Mar 2024	Wind Dir	S
I24	19 Mar 2024	Water Color	Green

Station	Date	Parameter	Value
I24	19 Mar 2024	Wave Height Low (ft)	2
I24	19 Mar 2024	Wave Period (sec)	11
I24	19 Mar 2024	Sea State	Light Chop
I24	19 Mar 2024	High Tide (ft)	4.49
I24	19 Mar 2024	High Tide Time	606
I24	19 Mar 2024	Low Tide (ft)	-0.38
I24	19 Mar 2024	Low Tide Time	1336
I24	19 Mar 2024	Comments	
I24	26 Mar 2024	Depth (m)	10
I24	26 Mar 2024	Arrive Time	1123
I24	26 Mar 2024	Depart Time	1127
I24	26 Mar 2024	Air Temp (C)	14.2
I24	26 Mar 2024	Weather	Overcast
I24	26 Mar 2024	Visibility (mi)	4
I24	26 Mar 2024	Wind Speed (kts)	6.5
I24	26 Mar 2024	Wind Dir	SW
I24	26 Mar 2024	Water Color	Green
I24	26 Mar 2024	Wave Height Low (ft)	6
I24	26 Mar 2024	Wave Period (sec)	10
I24	26 Mar 2024	Sea State	Confused Swell
I24	26 Mar 2024	High Tide (ft)	4.91
I24	26 Mar 2024	High Tide Time	2224
I24	26 Mar 2024	Low Tide (ft)	0.2
I24	26 Mar 2024	Low Tide Time	424
I24	26 Mar 2024	Comments	sewage odor
I25	06 Mar 2024	Depth (m)	9
I25	06 Mar 2024	Arrive Time	1058
I25	06 Mar 2024	Depart Time	1059
I25	06 Mar 2024	Air Temp (C)	14.8
I25	06 Mar 2024	Weather	Partly Cloudy
I25	06 Mar 2024	Visibility (mi)	10
I25	06 Mar 2024	Wind Speed (kts)	6.4
I25	06 Mar 2024	Wind Dir	W
I25	06 Mar 2024	Water Color	Green
I25	06 Mar 2024	Wave Height Low (ft)	3
I25	06 Mar 2024	Wave Period (sec)	14
I25	06 Mar 2024	Sea State	Light Chop
I25	06 Mar 2024	High Tide (ft)	5.29
I25	06 Mar 2024	High Tide Time	530
I25	06 Mar 2024	Low Tide (ft)	-0.96
I25	06 Mar 2024	Low Tide Time	1248
I25	06 Mar 2024	Comments	
I25	12 Mar 2024	Depth (m)	10
I25	12 Mar 2024	Arrive Time	1119
I25	12 Mar 2024	Depart Time	1123
I25	12 Mar 2024	Air Temp (C)	14.6
I25	12 Mar 2024	Weather	Partly Cloudy
I25	12 Mar 2024	Visibility (mi)	6
I25	12 Mar 2024	Wind Speed (kts)	9.2
I25	12 Mar 2024	Wind Dir	W
I25	12 Mar 2024	Water Color	Green
I25	12 Mar 2024	Wave Height Low (ft)	4
I25	12 Mar 2024	Wave Period (sec)	12
I25	12 Mar 2024	Sea State	Confused Swell
I25	12 Mar 2024	High Tide (ft)	5.54
I25	12 Mar 2024	High Tide Time	2324
I25	12 Mar 2024	Low Tide (ft)	-0.34
I25	12 Mar 2024	Low Tide Time	512

Station	Date	Parameter	Value
I25	12 Mar 2024	Comments	
I25	19 Mar 2024	Depth (m)	9
I25	19 Mar 2024	Arrive Time	1054
I25	19 Mar 2024	Depart Time	1058
I25	19 Mar 2024	Air Temp (C)	15.3
I25	19 Mar 2024	Weather	Partly Cloudy
I25	19 Mar 2024	Visibility (mi)	10
I25	19 Mar 2024	Wind Speed (kts)	7.6
I25	19 Mar 2024	Wind Dir	SW
I25	19 Mar 2024	Water Color	Green
I25	19 Mar 2024	Wave Height Low (ft)	2
I25	19 Mar 2024	Wave Period (sec)	11
I25	19 Mar 2024	Sea State	Light Chop
I25	19 Mar 2024	High Tide (ft)	4.49
I25	19 Mar 2024	High Tide Time	606
I25	19 Mar 2024	Low Tide (ft)	-0.38
I25	19 Mar 2024	Low Tide Time	1336
I25	19 Mar 2024	Comments	
I25	26 Mar 2024	Depth (m)	10
I25	26 Mar 2024	Arrive Time	1130
I25	26 Mar 2024	Depart Time	1134
I25	26 Mar 2024	Air Temp (C)	14.2
I25	26 Mar 2024	Weather	Overcast
I25	26 Mar 2024	Visibility (mi)	4
I25	26 Mar 2024	Wind Speed (kts)	8.8
I25	26 Mar 2024	Wind Dir	W
I25	26 Mar 2024	Water Color	Green
I25	26 Mar 2024	Wave Height Low (ft)	6
I25	26 Mar 2024	Wave Period (sec)	10
I25	26 Mar 2024	Sea State	Confused Swell
I25	26 Mar 2024	High Tide (ft)	4.91
I25	26 Mar 2024	High Tide Time	2224
I25	26 Mar 2024	Low Tide (ft)	0.2
I25	26 Mar 2024	Low Tide Time	424
I25	26 Mar 2024	Comments	faint sewer odor
I26	06 Mar 2024	Depth (m)	8
I26	06 Mar 2024	Arrive Time	1106
I26	06 Mar 2024	Depart Time	1110
I26	06 Mar 2024	Air Temp (C)	14.8
I26	06 Mar 2024	Weather	Partly Cloudy
I26	06 Mar 2024	Visibility (mi)	10
I26	06 Mar 2024	Wind Speed (kts)	7.0
I26	06 Mar 2024	Wind Dir	SW
I26	06 Mar 2024	Water Color	Green
I26	06 Mar 2024	Wave Height Low (ft)	3
I26	06 Mar 2024	Wave Period (sec)	14
I26	06 Mar 2024	Sea State	Light Chop
I26	06 Mar 2024	High Tide (ft)	5.29
I26	06 Mar 2024	High Tide Time	530
I26	06 Mar 2024	Low Tide (ft)	-0.96
I26	06 Mar 2024	Low Tide Time	1248
I26	06 Mar 2024	Comments	
I26	12 Mar 2024	Depth (m)	10
I26	12 Mar 2024	Arrive Time	1128
I26	12 Mar 2024	Depart Time	1131
I26	12 Mar 2024	Air Temp (C)	14.7
I26	12 Mar 2024	Weather	Partly Cloudy

Station	Date	Parameter	Value
I26	12 Mar 2024	Visibility (mi)	6
I26	12 Mar 2024	Wind Speed (kts)	11.9
I26	12 Mar 2024	Wind Dir	NW
I26	12 Mar 2024	Water Color	Green
I26	12 Mar 2024	Wave Height Low (ft)	4
I26	12 Mar 2024	Wave Period (sec)	12
I26	12 Mar 2024	Sea State	Confused Swell
I26	12 Mar 2024	High Tide (ft)	5.54
I26	12 Mar 2024	High Tide Time	2324
I26	12 Mar 2024	Low Tide (ft)	-0.34
I26	12 Mar 2024	Low Tide Time	512
I26	12 Mar 2024	Comments	
I26	19 Mar 2024	Depth (m)	9
I26	19 Mar 2024	Arrive Time	1103
I26	19 Mar 2024	Depart Time	1106
I26	19 Mar 2024	Air Temp (C)	15.7
I26	19 Mar 2024	Weather	Partly Cloudy
I26	19 Mar 2024	Visibility (mi)	10
I26	19 Mar 2024	Wind Speed (kts)	4.1
I26	19 Mar 2024	Wind Dir	S
I26	19 Mar 2024	Water Color	Green
I26	19 Mar 2024	Wave Height Low (ft)	2
I26	19 Mar 2024	Wave Period (sec)	11
I26	19 Mar 2024	Sea State	Light Chop
I26	19 Mar 2024	High Tide (ft)	4.49
I26	19 Mar 2024	High Tide Time	606
I26	19 Mar 2024	Low Tide (ft)	-0.38
I26	19 Mar 2024	Low Tide Time	1336
I26	19 Mar 2024	Comments	
I26	26 Mar 2024	Depth (m)	9
I26	26 Mar 2024	Arrive Time	1139
I26	26 Mar 2024	Depart Time	1144
I26	26 Mar 2024	Air Temp (C)	14.3
I26	26 Mar 2024	Weather	Overcast
I26	26 Mar 2024	Visibility (mi)	4
I26	26 Mar 2024	Wind Speed (kts)	7.4
I26	26 Mar 2024	Wind Dir	SW
I26	26 Mar 2024	Water Color	Green
I26	26 Mar 2024	Wave Height Low (ft)	6
I26	26 Mar 2024	Wave Period (sec)	10
I26	26 Mar 2024	Sea State	Confused Swell
I26	26 Mar 2024	High Tide (ft)	4.91
I26	26 Mar 2024	High Tide Time	2224
I26	26 Mar 2024	Low Tide (ft)	0.2
I26	26 Mar 2024	Low Tide Time	424
I26	26 Mar 2024	Comments	
I32	06 Mar 2024	Depth (m)	9
I32	06 Mar 2024	Arrive Time	1118
I32	06 Mar 2024	Depart Time	1122
I32	06 Mar 2024	Air Temp (C)	14.9
I32	06 Mar 2024	Weather	Partly Cloudy
I32	06 Mar 2024	Visibility (mi)	10
I32	06 Mar 2024	Wind Speed (kts)	9.8
I32	06 Mar 2024	Wind Dir	W
I32	06 Mar 2024	Water Color	Green
I32	06 Mar 2024	Wave Height Low (ft)	3
I32	06 Mar 2024	Wave Period (sec)	14
I32	06 Mar 2024	Sea State	Light Chop

Station	Date	Parameter	Value
I32	06 Mar 2024	High Tide (ft)	5.29
I32	06 Mar 2024	High Tide Time	530
I32	06 Mar 2024	Low Tide (ft)	-0.96
I32	06 Mar 2024	Low Tide Time	1248
I32	06 Mar 2024	Comments	
I32	12 Mar 2024	Depth (m)	11
I32	12 Mar 2024	Arrive Time	1139
I32	12 Mar 2024	Depart Time	1144
I32	12 Mar 2024	Air Temp (C)	14.8
I32	12 Mar 2024	Weather	Partly Cloudy
I32	12 Mar 2024	Visibility (mi)	6
I32	12 Mar 2024	Wind Speed (kts)	10.1
I32	12 Mar 2024	Wind Dir	NW
I32	12 Mar 2024	Water Color	Green
I32	12 Mar 2024	Wave Height Low (ft)	4
I32	12 Mar 2024	Wave Period (sec)	12
I32	12 Mar 2024	Sea State	Confused Swell
I32	12 Mar 2024	High Tide (ft)	5.54
I32	12 Mar 2024	High Tide Time	2324
I32	12 Mar 2024	Low Tide (ft)	-0.34
I32	12 Mar 2024	Low Tide Time	512
I32	12 Mar 2024	Comments	
I32	19 Mar 2024	Depth (m)	10
I32	19 Mar 2024	Arrive Time	1114
I32	19 Mar 2024	Depart Time	1117
I32	19 Mar 2024	Air Temp (C)	15.9
I32	19 Mar 2024	Weather	Partly Cloudy
I32	19 Mar 2024	Visibility (mi)	10
I32	19 Mar 2024	Wind Speed (kts)	4.9
I32	19 Mar 2024	Wind Dir	S
I32	19 Mar 2024	Water Color	Green
I32	19 Mar 2024	Wave Height Low (ft)	2
I32	19 Mar 2024	Wave Period (sec)	11
I32	19 Mar 2024	Sea State	Light Chop
I32	19 Mar 2024	High Tide (ft)	4.49
I32	19 Mar 2024	High Tide Time	606
I32	19 Mar 2024	Low Tide (ft)	-0.38
I32	19 Mar 2024	Low Tide Time	1336
I32	19 Mar 2024	Comments	
I32	26 Mar 2024	Depth (m)	10
I32	26 Mar 2024	Arrive Time	1151
I32	26 Mar 2024	Depart Time	1155
I32	26 Mar 2024	Air Temp (C)	14.4
I32	26 Mar 2024	Weather	Partly Cloudy
I32	26 Mar 2024	Visibility (mi)	4
I32	26 Mar 2024	Wind Speed (kts)	5.8
I32	26 Mar 2024	Wind Dir	SW
I32	26 Mar 2024	Water Color	Green
I32	26 Mar 2024	Wave Height Low (ft)	5
I32	26 Mar 2024	Wave Period (sec)	10
I32	26 Mar 2024	Sea State	Confused Swell
I32	26 Mar 2024	High Tide (ft)	4.91
I32	26 Mar 2024	High Tide Time	2224
I32	26 Mar 2024	Low Tide (ft)	0.2
I32	26 Mar 2024	Low Tide Time	424
I32	26 Mar 2024	Comments	
I39	06 Mar 2024	Depth (m)	18

Station	Date	Parameter	Value
I39	06 Mar 2024	Arrive Time	1005
I39	06 Mar 2024	Depart Time	1009
I39	06 Mar 2024	Air Temp (C)	14.8
I39	06 Mar 2024	Weather	Partly Cloudy
I39	06 Mar 2024	Visibility (mi)	10
I39	06 Mar 2024	Wind Speed (kts)	7.0
I39	06 Mar 2024	Wind Dir	W
I39	06 Mar 2024	Water Color	Blue
I39	06 Mar 2024	Wave Height Low (ft)	3
I39	06 Mar 2024	Wave Period (sec)	14
I39	06 Mar 2024	Sea State	Light Chop
I39	06 Mar 2024	High Tide (ft)	5.29
I39	06 Mar 2024	High Tide Time	530
I39	06 Mar 2024	Low Tide (ft)	-0.96
I39	06 Mar 2024	Low Tide Time	1248
I39	06 Mar 2024	Comments	
I39	12 Mar 2024	Depth (m)	21
I39	12 Mar 2024	Arrive Time	1033
I39	12 Mar 2024	Depart Time	1037
I39	12 Mar 2024	Air Temp (C)	14.7
I39	12 Mar 2024	Weather	Overcast
I39	12 Mar 2024	Visibility (mi)	3
I39	12 Mar 2024	Wind Speed (kts)	8.5
I39	12 Mar 2024	Wind Dir	W
I39	12 Mar 2024	Water Color	Green
I39	12 Mar 2024	Wave Height Low (ft)	4
I39	12 Mar 2024	Wave Period (sec)	12
I39	12 Mar 2024	Sea State	Confused Swell
I39	12 Mar 2024	High Tide (ft)	5.54
I39	12 Mar 2024	High Tide Time	2324
I39	12 Mar 2024	Low Tide (ft)	-0.34
I39	12 Mar 2024	Low Tide Time	512
I39	12 Mar 2024	Comments	
I39	19 Mar 2024	Depth (m)	19
I39	19 Mar 2024	Arrive Time	1010
I39	19 Mar 2024	Depart Time	1015
I39	19 Mar 2024	Air Temp (C)	15.4
I39	19 Mar 2024	Weather	Partly Cloudy
I39	19 Mar 2024	Visibility (mi)	10
I39	19 Mar 2024	Wind Speed (kts)	9.2
I39	19 Mar 2024	Wind Dir	S
I39	19 Mar 2024	Water Color	Green
I39	19 Mar 2024	Wave Height Low (ft)	2
I39	19 Mar 2024	Wave Period (sec)	11
I39	19 Mar 2024	Sea State	Light Chop
I39	19 Mar 2024	High Tide (ft)	4.49
I39	19 Mar 2024	High Tide Time	606
I39	19 Mar 2024	Low Tide (ft)	-0.38
I39	19 Mar 2024	Low Tide Time	1336
I39	19 Mar 2024	Comments	
I39	26 Mar 2024	Depth (m)	21
I39	26 Mar 2024	Arrive Time	1039
I39	26 Mar 2024	Depart Time	1044
I39	26 Mar 2024	Air Temp (C)	14.1
I39	26 Mar 2024	Weather	Overcast
I39	26 Mar 2024	Visibility (mi)	4
I39	26 Mar 2024	Wind Speed (kts)	3.8
I39	26 Mar 2024	Wind Dir	SW

Station	Date	Parameter	Value
I39	26 Mar 2024	Water Color	Green
I39	26 Mar 2024	Wave Height Low (ft)	6
I39	26 Mar 2024	Wave Period (sec)	10
I39	26 Mar 2024	Sea State	Confused Swell
I39	26 Mar 2024	High Tide (ft)	4.91
I39	26 Mar 2024	High Tide Time	2224
I39	26 Mar 2024	Low Tide (ft)	0.2
I39	26 Mar 2024	Low Tide Time	424
I39	26 Mar 2024	Comments	
I40	06 Mar 2024	Depth (m)	9
I40	06 Mar 2024	Arrive Time	1038
I40	06 Mar 2024	Depart Time	1044
I40	06 Mar 2024	Air Temp (C)	14.8
I40	06 Mar 2024	Weather	Partly Cloudy
I40	06 Mar 2024	Visibility (mi)	10
I40	06 Mar 2024	Wind Speed (kts)	11.9
I40	06 Mar 2024	Wind Dir	W
I40	06 Mar 2024	Water Color	Brownish-Green
I40	06 Mar 2024	Wave Height Low (ft)	3
I40	06 Mar 2024	Wave Period (sec)	14
I40	06 Mar 2024	Sea State	Light Chop
I40	06 Mar 2024	High Tide (ft)	5.29
I40	06 Mar 2024	High Tide Time	530
I40	06 Mar 2024	Low Tide (ft)	-0.96
I40	06 Mar 2024	Low Tide Time	1248
I40	06 Mar 2024	Comments	Sewage smell
I40	12 Mar 2024	Depth (m)	10
I40	12 Mar 2024	Arrive Time	1105
I40	12 Mar 2024	Depart Time	1109
I40	12 Mar 2024	Air Temp (C)	14.8
I40	12 Mar 2024	Weather	Partly Cloudy
I40	12 Mar 2024	Visibility (mi)	6
I40	12 Mar 2024	Wind Speed (kts)	8.3
I40	12 Mar 2024	Wind Dir	W
I40	12 Mar 2024	Water Color	Green
I40	12 Mar 2024	Wave Height Low (ft)	4
I40	12 Mar 2024	Wave Period (sec)	12
I40	12 Mar 2024	Sea State	Confused Swell
I40	12 Mar 2024	High Tide (ft)	5.54
I40	12 Mar 2024	High Tide Time	2324
I40	12 Mar 2024	Low Tide (ft)	-0.34
I40	12 Mar 2024	Low Tide Time	512
I40	12 Mar 2024	Comments	
I40	19 Mar 2024	Depth (m)	10
I40	19 Mar 2024	Arrive Time	1041
I40	19 Mar 2024	Depart Time	1045
I40	19 Mar 2024	Air Temp (C)	15.3
I40	19 Mar 2024	Weather	Partly Cloudy
I40	19 Mar 2024	Visibility (mi)	10
I40	19 Mar 2024	Wind Speed (kts)	9.2
I40	19 Mar 2024	Wind Dir	S
I40	19 Mar 2024	Water Color	Brown
I40	19 Mar 2024	Wave Height Low (ft)	2
I40	19 Mar 2024	Wave Period (sec)	11
I40	19 Mar 2024	Sea State	Light Chop
I40	19 Mar 2024	High Tide (ft)	4.49
I40	19 Mar 2024	High Tide Time	606
I40	19 Mar 2024	Low Tide (ft)	-0.38

Station	Date	Parameter	Value
I40	19 Mar 2024	Low Tide Time	1336
I40	19 Mar 2024	Comments	sewage like aroma
I40	26 Mar 2024	Depth (m)	11
I40	26 Mar 2024	Arrive Time	1115
I40	26 Mar 2024	Depart Time	1119
I40	26 Mar 2024	Air Temp (C)	14.3
I40	26 Mar 2024	Weather	Overcast
I40	26 Mar 2024	Visibility (mi)	4
I40	26 Mar 2024	Wind Speed (kts)	6.7
I40	26 Mar 2024	Wind Dir	SW
I40	26 Mar 2024	Water Color	Green
I40	26 Mar 2024	Wave Height Low (ft)	6
I40	26 Mar 2024	Wave Period (sec)	10
I40	26 Mar 2024	Sea State	Confused Swell
I40	26 Mar 2024	High Tide (ft)	4.91
I40	26 Mar 2024	High Tide Time	2224
I40	26 Mar 2024	Low Tide (ft)	0.2
I40	26 Mar 2024	Low Tide Time	424
I40	26 Mar 2024	Comments	sewage odor

Table 3.9

Summary of CTD profile data from the SBOO 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)
I19	06 Mar 2024	1	15.73	62.33	8.0	33.02	8.2	24.3	0.84
I19	06 Mar 2024	2	15.54	61.92	7.8	33.05	8.2	24.3	1.17
I19	06 Mar 2024	3	15.34	58.98	7.8	33.06	8.1	24.4	1.79
I19	06 Mar 2024	4	15.29	60.68	7.6	33.06	8.1	24.4	2.12
I19	06 Mar 2024	5	15.18	63.09	7.2	33.08	8.1	24.5	2.24
I19	06 Mar 2024	6	14.68	64.64	6.8	33.14	8.1	24.6	2.01
I19	06 Mar 2024	7	14.50	62.59	6.5	33.14	8.0	24.6	1.80
I19	06 Mar 2024	8	14.26	58.55	6.3	33.16	8.0	24.7	1.86
I19	06 Mar 2024	9	14.07	51.97	6.3	33.17	8.0	24.8	1.89
I19	06 Mar 2024	10	13.96	42.55	6.3	33.17	8.0	24.8	1.71
I19	12 Mar 2024	1	14.79	53.30	8.1	32.95	8.1	24.4	3.75
I19	12 Mar 2024	2	14.76	52.46	8.1	32.94	8.1	24.4	3.94
I19	12 Mar 2024	3	14.78	53.64	8.0	32.96	8.1	24.4	4.39
I19	12 Mar 2024	4	14.60	52.41	8.0	33.00	8.1	24.5	4.81
I19	12 Mar 2024	5	14.61	52.99	8.0	33.03	8.1	24.5	5.30
I19	12 Mar 2024	6	14.52	55.19	8.0	33.05	8.1	24.6	5.33
I19	12 Mar 2024	7	14.40	53.08	7.9	33.07	8.1	24.6	4.37
I19	12 Mar 2024	8	14.37	60.01	7.7	33.08	8.1	24.6	3.67
I19	12 Mar 2024	9	14.10	67.60	7.4	33.13	8.1	24.7	2.84
I19	12 Mar 2024	10	14.01	70.15	7.4	33.14	8.1	24.8	2.20
I19	19 Mar 2024	1	14.90	71.70	8.5	33.03	8.0	24.5	1.97
I19	19 Mar 2024	2	14.81	71.81	8.4	33.06	8.0	24.5	2.08
I19	19 Mar 2024	3	14.59	71.97	8.3	33.11	8.0	24.6	2.51
I19	19 Mar 2024	4	14.56	73.73	8.3	33.14	8.0	24.6	3.63
I19	19 Mar 2024	5	14.53	77.17	8.2	33.16	8.0	24.7	4.27
I19	19 Mar 2024	6	14.46	79.70	8.1	33.16	8.0	24.7	4.56
I19	19 Mar 2024	7	14.32	78.67	7.8	33.16	8.0	24.7	4.65
I19	19 Mar 2024	8	14.16	75.36	7.4	33.20	7.9	24.8	4.96
I19	19 Mar 2024	9	13.98	72.49	7.0	33.22	7.9	24.8	5.09
I19	19 Mar 2024	10	13.80	64.53	6.8	33.24	7.9	24.9	5.10
I19	26 Mar 2024	1	14.16	32.38	7.8	32.79	7.8	24.4	1.49
I19	26 Mar 2024	2	13.86	31.17	7.4	32.82	7.8	24.5	1.80
I19	26 Mar 2024	3	13.63	31.89	7.2	33.13	7.8	24.8	1.93
I19	26 Mar 2024	4	13.47	40.13	6.8	33.23	7.7	24.9	1.80
I19	26 Mar 2024	5	12.72	62.06	6.0	33.45	7.7	25.2	1.59
I19	26 Mar 2024	6	11.74	67.46	5.2	33.52	7.6	25.5	1.39
I19	26 Mar 2024	7	12.14	42.89	5.1	33.44	7.6	25.4	1.44
I19	26 Mar 2024	8	11.56	36.82	4.6	33.54	7.6	25.5	1.29
I19	26 Mar 2024	9	11.51	14.59	4.3	33.53	7.5	25.5	1.34
I19	26 Mar 2024	10	11.52	8.02	4.3	33.53	7.5	25.5	1.35
I24	06 Mar 2024	1	16.16	63.82	8.2	32.65	8.2	23.9	0.55
I24	06 Mar 2024	2	15.99	70.04	8.4	32.84	8.2	24.1	0.61
I24	06 Mar 2024	3	15.74	75.87	8.4	33.05	8.2	24.3	0.71
I24	06 Mar 2024	4	15.55	77.74	8.3	33.07	8.2	24.4	1.09
I24	06 Mar 2024	5	15.40	75.40	8.0	33.07	8.2	24.4	1.95
I24	06 Mar 2024	6	15.12	74.57	7.9	33.09	8.2	24.5	3.56
I24	06 Mar 2024	7	14.96	80.06	8.0	33.10	8.2	24.5	3.46
I24	06 Mar 2024	8	14.63	86.06	7.1	33.12	8.2	24.6	2.07
I24	06 Mar 2024	9	13.87	78.78	6.6	33.21	8.1	24.8	1.43
I24	12 Mar 2024	1	15.54	74.56	8.7	33.02	8.2	24.3	2.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	12 Mar 2024	2	15.17	75.78	8.5	33.04	8.2	24.4	2.45
I24	12 Mar 2024	3	14.95	77.54	8.2	33.04	8.2	24.5	2.62
I24	12 Mar 2024	4	14.13	84.42	7.8	33.15	8.2	24.7	2.00
I24	12 Mar 2024	5	13.87	90.35	7.6	33.15	8.1	24.8	1.42
I24	12 Mar 2024	6	13.88	92.53	7.4	33.15	8.1	24.8	1.19
I24	12 Mar 2024	7	13.64	92.39	7.0	33.18	8.1	24.9	1.24
I24	12 Mar 2024	8	13.43	78.22	6.4	33.20	8.0	24.9	1.41
I24	12 Mar 2024	9	13.29	38.96	6.1	33.21	8.0	25.0	1.40
I24	12 Mar 2024	10	13.28	33.85	5.8	33.21	8.0	25.0	1.26
I24	19 Mar 2024	1	15.35	74.36	7.9	33.15	8.1	24.5	1.27
I24	19 Mar 2024	2	15.35	74.51	7.8	33.15	8.1	24.5	1.33
I24	19 Mar 2024	3	15.15	74.17	7.6	33.16	8.1	24.5	1.66
I24	19 Mar 2024	4	14.77	72.17	7.3	33.18	8.0	24.6	2.76
I24	19 Mar 2024	5	14.49	72.68	7.0	33.19	8.0	24.7	3.32
I24	19 Mar 2024	6	14.24	76.19	6.8	33.20	7.9	24.8	2.88
I24	19 Mar 2024	7	14.22	78.31	6.8	33.20	7.9	24.8	2.17
I24	19 Mar 2024	8	14.00	75.24	6.0	33.23	7.9	24.8	1.69
I24	19 Mar 2024	9	13.97	62.21	6.3	33.22	7.9	24.8	1.55
I24	26 Mar 2024	1	14.11	33.28	8.0	32.81	7.8	24.5	1.20
I24	26 Mar 2024	2	14.08	33.08	8.0	32.84	7.8	24.5	1.50
I24	26 Mar 2024	3	14.01	31.14	8.0	32.86	7.8	24.5	3.09
I24	26 Mar 2024	4	14.00	36.13	7.5	33.07	7.8	24.7	3.55
I24	26 Mar 2024	5	13.78	41.67	7.0	33.18	7.8	24.8	2.53
I24	26 Mar 2024	6	13.43	57.01	6.5	33.28	7.7	25.0	2.00
I24	26 Mar 2024	7	12.96	67.30	6.6	33.41	7.7	25.2	1.61
I24	26 Mar 2024	8	12.63	63.75	6.6	33.45	7.6	25.3	1.33
I24	26 Mar 2024	9	12.62	57.57	4.8	33.45	7.6	25.3	1.25
I24	26 Mar 2024	10	12.64	53.75	5.4	33.44	7.6	25.3	1.28
I25	06 Mar 2024	1	16.15	82.23	9.0	33.04	8.3	24.2	0.37
I25	06 Mar 2024	2	16.05	82.21	9.1	33.04	8.3	24.2	0.43
I25	06 Mar 2024	3	15.87	82.30	9.2	33.04	8.3	24.3	0.76
I25	06 Mar 2024	4	15.76	80.32	9.1	33.04	8.3	24.3	1.99
I25	06 Mar 2024	5	15.40	75.91	8.5	33.08	8.2	24.4	4.05
I25	06 Mar 2024	6	14.92	70.59	8.1	33.12	8.2	24.5	6.01
I25	06 Mar 2024	7	14.65	71.35	7.9	33.12	8.2	24.6	5.13
I25	06 Mar 2024	8	14.63	81.97	7.9	33.12	8.2	24.6	3.44
I25	12 Mar 2024	1	15.63	66.34	9.1	32.99	8.2	24.3	3.12
I25	12 Mar 2024	2	15.63	69.15	9.2	33.01	8.2	24.3	3.23
I25	12 Mar 2024	3	15.48	71.80	9.0	33.02	8.2	24.3	4.83
I25	12 Mar 2024	4	15.34	67.83	8.7	33.01	8.2	24.4	8.22
I25	12 Mar 2024	5	14.91	66.88	8.0	33.08	8.2	24.5	7.55
I25	12 Mar 2024	6	13.86	76.36	7.0	33.20	8.1	24.8	4.39
I25	12 Mar 2024	7	13.54	81.43	6.5	33.20	8.0	24.9	3.08
I25	12 Mar 2024	8	13.42	67.50	6.5	33.20	8.0	24.9	2.36
I25	12 Mar 2024	9	13.39	53.44	5.7	33.20	8.0	24.9	1.83
I25	19 Mar 2024	1	15.29	71.19	8.1	33.14	8.1	24.5	1.73
I25	19 Mar 2024	2	15.26	71.10	8.0	33.15	8.1	24.5	1.78
I25	19 Mar 2024	3	15.11	70.71	7.9	33.15	8.1	24.5	2.19
I25	19 Mar 2024	4	14.98	70.41	7.7	33.16	8.1	24.6	3.23
I25	19 Mar 2024	5	14.69	71.36	7.4	33.17	8.0	24.6	4.42
I25	19 Mar 2024	6	14.38	74.19	7.1	33.20	8.0	24.7	4.70
I25	19 Mar 2024	7	14.14	78.27	7.1	33.21	7.9	24.8	4.34
I25	19 Mar 2024	8	14.01	81.42	6.6	33.22	7.9	24.8	3.22
I25	19 Mar 2024	9	14.01	82.12	6.7	33.21	7.9	24.8	2.61
I25	26 Mar 2024	1	14.04	42.07	7.7	33.00	7.8	24.6	0.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I25	26 Mar 2024	2	14.03	41.81	7.7	33.00	7.8	24.6	0.94
I25	26 Mar 2024	3	14.03	43.10	7.6	33.03	7.8	24.7	1.20
I25	26 Mar 2024	4	13.93	45.94	7.3	33.17	7.8	24.8	1.60
I25	26 Mar 2024	5	13.78	54.57	6.9	33.20	7.8	24.8	1.68
I25	26 Mar 2024	6	12.99	60.39	6.2	33.43	7.7	25.2	1.80
I25	26 Mar 2024	7	12.80	79.12	5.9	33.43	7.7	25.2	1.32
I25	26 Mar 2024	8	12.13	70.90	5.9	33.50	7.6	25.4	1.08
I25	26 Mar 2024	9	12.08	54.57	4.8	33.49	7.6	25.4	1.09
I26	06 Mar 2024	1	16.02	85.02	9.1	33.03	8.3	24.2	0.47
I26	06 Mar 2024	2	15.93	84.70	9.2	33.03	8.3	24.2	0.54
I26	06 Mar 2024	3	15.75	84.16	9.3	33.03	8.3	24.3	1.07
I26	06 Mar 2024	4	15.67	80.32	9.0	33.03	8.3	24.3	2.24
I26	06 Mar 2024	5	15.32	75.94	8.2	33.09	8.2	24.4	3.28
I26	06 Mar 2024	6	14.96	73.99	8.1	33.11	8.2	24.5	3.57
I26	06 Mar 2024	7	14.58	77.07	8.0	33.14	8.2	24.6	3.58
I26	06 Mar 2024	8	14.31	81.63	7.1	33.16	8.1	24.7	4.94
I26	12 Mar 2024	1	15.48	81.78	8.2	33.02	8.2	24.3	0.68
I26	12 Mar 2024	2	15.10	81.35	7.9	33.09	8.2	24.5	0.85
I26	12 Mar 2024	3	14.88	78.37	7.7	33.09	8.1	24.5	1.21
I26	12 Mar 2024	4	14.72	75.14	7.5	33.09	8.1	24.6	1.60
I26	12 Mar 2024	5	14.54	75.04	7.4	33.10	8.1	24.6	1.59
I26	12 Mar 2024	6	14.24	77.10	7.2	33.12	8.1	24.7	1.46
I26	12 Mar 2024	7	13.88	82.10	6.7	33.16	8.1	24.8	1.40
I26	12 Mar 2024	8	13.72	75.71	6.8	33.17	8.0	24.8	1.33
I26	12 Mar 2024	9	13.70	71.35	6.0	33.17	8.0	24.8	1.13
I26	19 Mar 2024	1	15.36	69.68	7.8	33.12	8.1	24.4	2.34
I26	19 Mar 2024	2	15.36	69.33	7.8	33.12	8.1	24.4	2.30
I26	19 Mar 2024	3	15.30	69.33	7.7	33.12	8.1	24.5	2.80
I26	19 Mar 2024	4	15.02	69.31	7.3	33.14	8.1	24.5	4.38
I26	19 Mar 2024	5	14.50	73.25	6.8	33.17	8.0	24.7	4.99
I26	19 Mar 2024	6	14.19	79.24	6.8	33.19	8.0	24.8	4.45
I26	19 Mar 2024	7	13.98	81.35	7.0	33.22	7.9	24.8	3.76
I26	19 Mar 2024	8	13.92	81.14	6.2	33.22	7.9	24.8	2.24
I26	19 Mar 2024	9	13.86	77.19	6.2	33.23	7.9	24.8	1.88
I26	26 Mar 2024	1	14.34	53.42	7.8	33.06	7.8	24.6	1.30
I26	26 Mar 2024	2	14.33	53.16	7.7	33.06	7.8	24.6	1.30
I26	26 Mar 2024	3	14.28	53.89	7.6	33.07	7.8	24.6	1.66
I26	26 Mar 2024	4	13.64	55.39	6.8	33.31	7.8	25.0	2.26
I26	26 Mar 2024	5	12.84	64.57	6.1	33.48	7.7	25.2	2.09
I26	26 Mar 2024	6	12.41	75.83	5.8	33.51	7.7	25.4	1.79
I26	26 Mar 2024	7	12.21	79.78	5.5	33.49	7.6	25.4	1.62
I26	26 Mar 2024	8	12.03	75.62	5.2	33.51	7.6	25.4	1.46
I26	26 Mar 2024	9	11.96	67.05	5.0	33.50	7.6	25.4	1.20
I32	06 Mar 2024	1	15.99	82.92	9.0	33.02	8.3	24.2	0.62
I32	06 Mar 2024	2	15.88	81.68	8.8	33.04	8.3	24.3	0.79
I32	06 Mar 2024	3	15.67	75.54	8.5	33.07	8.2	24.3	1.89
I32	06 Mar 2024	4	15.62	63.28	8.5	33.06	8.2	24.3	4.08
I32	06 Mar 2024	5	15.52	56.52	8.0	33.07	8.2	24.4	6.66
I32	06 Mar 2024	6	14.66	52.48	7.0	33.17	8.1	24.6	7.42
I32	06 Mar 2024	7	14.23	47.38	6.6	33.17	8.0	24.7	5.88
I32	06 Mar 2024	8	14.07	53.02	6.6	33.16	8.0	24.8	5.18
I32	06 Mar 2024	9	14.03	46.89	6.7	33.16	8.0	24.8	4.22
I32	12 Mar 2024	1	15.39	73.44	8.4	33.08	8.2	24.4	0.72
I32	12 Mar 2024	2	15.30	72.53	8.4	33.09	8.2	24.4	0.79
I32	12 Mar 2024	3	15.23	72.54	8.3	33.09	8.2	24.4	1.02

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I32	12 Mar 2024	4	14.97	69.34	8.3	33.12	8.2	24.5	1.59
I32	12 Mar 2024	5	14.79	62.52	8.1	33.12	8.1	24.6	2.65
I32	12 Mar 2024	6	14.04	57.06	7.5	33.18	8.1	24.8	3.31
I32	12 Mar 2024	7	13.81	67.30	7.0	33.17	8.1	24.8	2.93
I32	12 Mar 2024	8	13.47	75.02	6.7	33.20	8.1	24.9	2.16
I32	12 Mar 2024	9	13.38	64.12	6.6	33.19	8.0	24.9	1.71
I32	12 Mar 2024	10	13.37	41.46	6.5	33.20	8.0	24.9	1.53
I32	19 Mar 2024	1	15.26	66.98	7.7	33.12	8.1	24.5	2.62
I32	19 Mar 2024	2	15.14	66.66	7.7	33.14	8.1	24.5	3.06
I32	19 Mar 2024	3	14.84	63.81	7.5	33.16	8.1	24.6	5.81
I32	19 Mar 2024	4	14.76	63.01	7.3	33.16	8.0	24.6	7.57
I32	19 Mar 2024	5	14.74	64.68	7.3	33.15	8.0	24.6	8.86
I32	19 Mar 2024	6	14.68	65.12	7.3	33.16	8.0	24.6	8.75
I32	19 Mar 2024	7	14.48	66.67	7.0	33.18	8.0	24.7	6.86
I32	19 Mar 2024	8	14.05	63.71	6.4	33.22	7.9	24.8	4.41
I32	19 Mar 2024	9	13.90	52.11	6.3	33.23	7.9	24.8	3.09
I32	19 Mar 2024	10	13.82	51.88	6.3	33.23	7.9	24.9	3.11
I32	26 Mar 2024	1	14.28	74.77	7.7	33.24	7.8	24.8	0.72
I32	26 Mar 2024	2	14.28	74.49	7.6	33.24	7.8	24.8	0.73
I32	26 Mar 2024	3	14.26	74.54	7.7	33.24	7.8	24.8	0.82
I32	26 Mar 2024	4	14.25	74.73	7.6	33.24	7.8	24.8	0.99
I32	26 Mar 2024	5	14.19	74.61	7.6	33.25	7.8	24.8	1.26
I32	26 Mar 2024	6	14.12	75.46	7.2	33.25	7.8	24.8	2.18
I32	26 Mar 2024	7	12.49	62.15	6.0	33.52	7.7	25.3	2.21
I32	26 Mar 2024	8	11.92	53.88	5.5	33.52	7.6	25.5	1.67
I32	26 Mar 2024	9	11.87	64.45	5.2	33.51	7.6	25.5	1.34
I32	26 Mar 2024	10	11.87	36.90	5.2	33.51	7.6	25.5	1.38
I39	06 Mar 2024	1	16.00	86.84	9.2	33.02	8.3	24.2	0.37
I39	06 Mar 2024	2	15.88	85.79	9.2	33.03	8.3	24.3	0.46
I39	06 Mar 2024	3	15.81	85.93	9.3	33.02	8.3	24.3	0.77
I39	06 Mar 2024	4	15.75	84.87	9.3	33.02	8.3	24.3	1.55
I39	06 Mar 2024	5	15.47	83.53	8.9	33.05	8.3	24.4	3.10
I39	06 Mar 2024	6	14.66	81.62	8.4	33.13	8.2	24.6	4.11
I39	06 Mar 2024	7	14.27	84.80	8.1	33.15	8.2	24.7	3.87
I39	06 Mar 2024	8	14.02	88.66	7.8	33.16	8.1	24.8	3.14
I39	06 Mar 2024	9	13.79	91.52	7.6	33.17	8.1	24.8	2.64
I39	06 Mar 2024	10	13.56	93.13	7.4	33.18	8.1	24.9	2.43
I39	06 Mar 2024	11	13.09	93.64	7.0	33.22	8.1	25.0	1.78
I39	06 Mar 2024	12	12.90	94.86	6.7	33.23	8.0	25.0	1.36
I39	06 Mar 2024	13	12.87	94.53	6.6	33.23	8.0	25.0	1.10
I39	06 Mar 2024	14	12.87	93.07	6.6	33.23	8.0	25.0	1.02
I39	06 Mar 2024	15	12.87	90.94	6.6	33.23	8.0	25.0	1.00
I39	06 Mar 2024	16	12.87	90.61	6.6	33.23	8.0	25.1	1.06
I39	06 Mar 2024	17	12.87	90.72	6.8	33.24	8.0	25.1	1.04
I39	06 Mar 2024	18	12.87	90.68	6.4	33.24	8.0	25.1	1.00
I39	12 Mar 2024	1	15.48	61.79	8.9	32.93	8.2	24.3	6.25
I39	12 Mar 2024	2	15.46	62.27	9.0	32.94	8.2	24.3	6.63
I39	12 Mar 2024	3	15.42	62.37	8.9	32.95	8.2	24.3	7.11
I39	12 Mar 2024	4	15.37	64.63	8.7	32.97	8.2	24.3	6.78
I39	12 Mar 2024	5	15.25	70.60	8.5	33.02	8.2	24.4	5.45
I39	12 Mar 2024	6	14.92	77.54	8.0	33.06	8.2	24.5	4.08
I39	12 Mar 2024	7	14.63	83.18	7.6	33.09	8.1	24.6	3.23
I39	12 Mar 2024	8	14.49	84.59	7.3	33.11	8.1	24.6	2.93
I39	12 Mar 2024	9	13.99	83.95	6.9	33.16	8.1	24.8	2.49
I39	12 Mar 2024	10	13.79	82.22	6.7	33.16	8.0	24.8	2.20
I39	12 Mar 2024	11	13.56	81.16	6.4	33.19	8.0	24.9	1.90
I39	12 Mar 2024	12	13.44	80.52	6.3	33.19	8.0	24.9	1.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	12 Mar 2024	13	13.41	78.60	6.2	33.20	8.0	24.9	1.43
I39	12 Mar 2024	14	13.25	77.36	6.1	33.22	8.0	25.0	1.21
I39	12 Mar 2024	15	13.15	75.86	6.1	33.23	8.0	25.0	1.09
I39	12 Mar 2024	16	13.11	75.15	6.1	33.23	8.0	25.0	1.01
I39	12 Mar 2024	17	13.14	75.44	6.0	33.23	8.0	25.0	0.99
I39	12 Mar 2024	18	13.03	74.72	6.2	33.24	8.0	25.0	0.95
I39	19 Mar 2024	1	15.60	74.37	8.5	33.10	8.1	24.4	1.73
I39	19 Mar 2024	2	15.53	73.78	8.6	33.10	8.1	24.4	2.08
I39	19 Mar 2024	3	15.42	71.58	8.4	33.11	8.1	24.4	3.24
I39	19 Mar 2024	4	14.68	71.67	7.8	33.19	8.0	24.6	4.47
I39	19 Mar 2024	5	14.07	79.30	7.6	33.21	8.0	24.8	4.71
I39	19 Mar 2024	6	13.80	83.14	7.3	33.23	7.9	24.9	5.67
I39	19 Mar 2024	7	13.52	83.97	7.0	33.25	7.9	24.9	5.88
I39	19 Mar 2024	8	13.44	83.98	6.8	33.25	7.8	25.0	6.32
I39	19 Mar 2024	9	13.37	84.09	6.8	33.26	7.8	25.0	5.98
I39	19 Mar 2024	10	13.35	84.72	6.7	33.26	7.8	25.0	5.80
I39	19 Mar 2024	11	13.30	85.55	6.6	33.26	7.8	25.0	5.05
I39	19 Mar 2024	12	13.26	86.24	6.5	33.27	7.8	25.0	4.43
I39	19 Mar 2024	13	13.22	86.67	6.4	33.27	7.8	25.0	3.72
I39	19 Mar 2024	14	13.15	86.65	6.2	33.28	7.8	25.0	3.20
I39	19 Mar 2024	15	13.11	86.60	6.1	33.29	7.8	25.0	2.80
I39	19 Mar 2024	16	13.07	85.97	6.0	33.29	7.8	25.1	2.70
I39	19 Mar 2024	17	13.06	84.08	5.9	33.29	7.7	25.1	2.16
I39	19 Mar 2024	18	13.06	81.77	5.9	33.29	7.7	25.1	1.99
I39	26 Mar 2024	1	13.71	90.28	7.2	33.34	7.8	25.0	0.63
I39	26 Mar 2024	2	13.69	91.42	7.2	33.34	7.8	25.0	0.64
I39	26 Mar 2024	3	13.60	91.74	7.0	33.36	7.8	25.0	0.68
I39	26 Mar 2024	4	13.05	92.48	6.8	33.41	7.8	25.1	0.71
I39	26 Mar 2024	5	13.01	92.82	6.7	33.40	7.7	25.1	0.78
I39	26 Mar 2024	6	13.00	92.95	6.7	33.40	7.7	25.2	0.97
I39	26 Mar 2024	7	12.99	92.92	6.7	33.40	7.7	25.2	1.15
I39	26 Mar 2024	8	12.99	92.97	6.7	33.40	7.7	25.2	1.26
I39	26 Mar 2024	9	12.92	92.83	6.6	33.41	7.7	25.2	1.27
I39	26 Mar 2024	10	12.83	92.95	6.6	33.42	7.7	25.2	1.45
I39	26 Mar 2024	11	12.76	93.01	6.5	33.43	7.7	25.2	1.40
I39	26 Mar 2024	12	12.71	92.87	6.4	33.44	7.7	25.2	1.37
I39	26 Mar 2024	13	12.59	92.88	6.4	33.45	7.7	25.3	1.55
I39	26 Mar 2024	14	12.47	93.54	6.2	33.46	7.7	25.3	1.50
I39	26 Mar 2024	15	12.21	94.39	5.9	33.48	7.7	25.4	1.32
I39	26 Mar 2024	16	11.85	94.71	5.5	33.52	7.6	25.5	1.23
I39	26 Mar 2024	17	11.53	95.52	5.3	33.56	7.6	25.6	0.94
I39	26 Mar 2024	18	11.46	93.84	5.2	33.57	7.6	25.6	0.80
I40	06 Mar 2024	1	15.92	45.38	7.9	32.64	8.2	24.0	2.17
I40	06 Mar 2024	2	15.75	48.73	7.6	32.93	8.2	24.2	2.08
I40	06 Mar 2024	3	15.29	58.98	7.1	33.08	8.1	24.4	1.69
I40	06 Mar 2024	4	15.07	67.33	6.9	33.11	8.1	24.5	1.05
I40	06 Mar 2024	5	14.66	71.63	6.8	33.15	8.1	24.6	0.94
I40	06 Mar 2024	6	14.28	73.46	6.6	33.16	8.1	24.7	1.07
I40	06 Mar 2024	7	14.09	69.44	6.5	33.17	8.0	24.8	1.14
I40	06 Mar 2024	8	13.96	63.88	6.4	33.18	8.0	24.8	1.13
I40	06 Mar 2024	9	13.95	56.09	6.2	33.17	8.0	24.8	1.13
I40	12 Mar 2024	1	14.92	66.23	7.8	33.09	8.1	24.5	1.44
I40	12 Mar 2024	2	14.67	67.40	7.7	33.10	8.1	24.6	1.69
I40	12 Mar 2024	3	14.73	68.82	7.7	33.09	8.1	24.6	1.97
I40	12 Mar 2024	4	14.60	66.57	7.6	33.11	8.1	24.6	2.22
I40	12 Mar 2024	5	14.33	68.01	7.4	33.12	8.1	24.7	2.23
I40	12 Mar 2024	6	14.10	72.07	7.3	33.14	8.1	24.7	2.01

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	12 Mar 2024	7	13.95	77.68	7.2	33.15	8.1	24.8	2.00
I40	12 Mar 2024	8	13.78	74.34	6.8	33.17	8.1	24.8	1.99
I40	12 Mar 2024	9	13.48	52.74	6.3	33.20	8.0	24.9	1.76
I40	12 Mar 2024	10	13.55	21.35	6.2	33.19	8.0	24.9	1.65
I40	19 Mar 2024	1	15.56	42.71	7.5	31.89	8.0	23.5	1.60
I40	19 Mar 2024	2	14.83	51.57	7.5	33.08	8.0	24.5	1.68
I40	19 Mar 2024	3	14.48	70.37	7.6	33.15	8.0	24.7	2.16
I40	19 Mar 2024	4	14.26	76.58	7.7	33.15	8.0	24.7	3.40
I40	19 Mar 2024	5	14.21	79.15	7.5	33.17	8.0	24.7	4.00
I40	19 Mar 2024	6	14.17	80.39	7.2	33.18	8.0	24.7	4.46
I40	19 Mar 2024	7	14.01	75.37	6.8	33.22	7.9	24.8	4.13
I40	19 Mar 2024	8	13.95	64.92	6.5	33.22	7.9	24.8	3.77
I40	19 Mar 2024	9	13.89	56.66	6.4	33.23	7.9	24.8	3.59
I40	26 Mar 2024	1	14.41	30.42	8.1	32.50	7.8	24.2	1.59
I40	26 Mar 2024	2	14.40	30.24	8.0	32.51	7.8	24.2	1.52
I40	26 Mar 2024	3	14.21	34.83	7.5	32.84	7.8	24.5	2.12
I40	26 Mar 2024	4	13.12	41.67	6.9	33.27	7.7	25.0	2.25
I40	26 Mar 2024	5	12.84	38.03	6.7	33.26	7.7	25.1	1.64
I40	26 Mar 2024	6	12.69	33.80	6.6	33.31	7.7	25.1	1.72
I40	26 Mar 2024	7	12.47	43.54	6.4	33.33	7.6	25.2	1.32
I40	26 Mar 2024	8	12.26	39.98	5.9	33.39	7.6	25.3	1.14
I40	26 Mar 2024	9	12.08	36.76	5.2	33.44	7.6	25.4	1.19
I40	26 Mar 2024	10	11.65	18.77	4.4	33.53	7.5	25.5	1.35

NA = not available

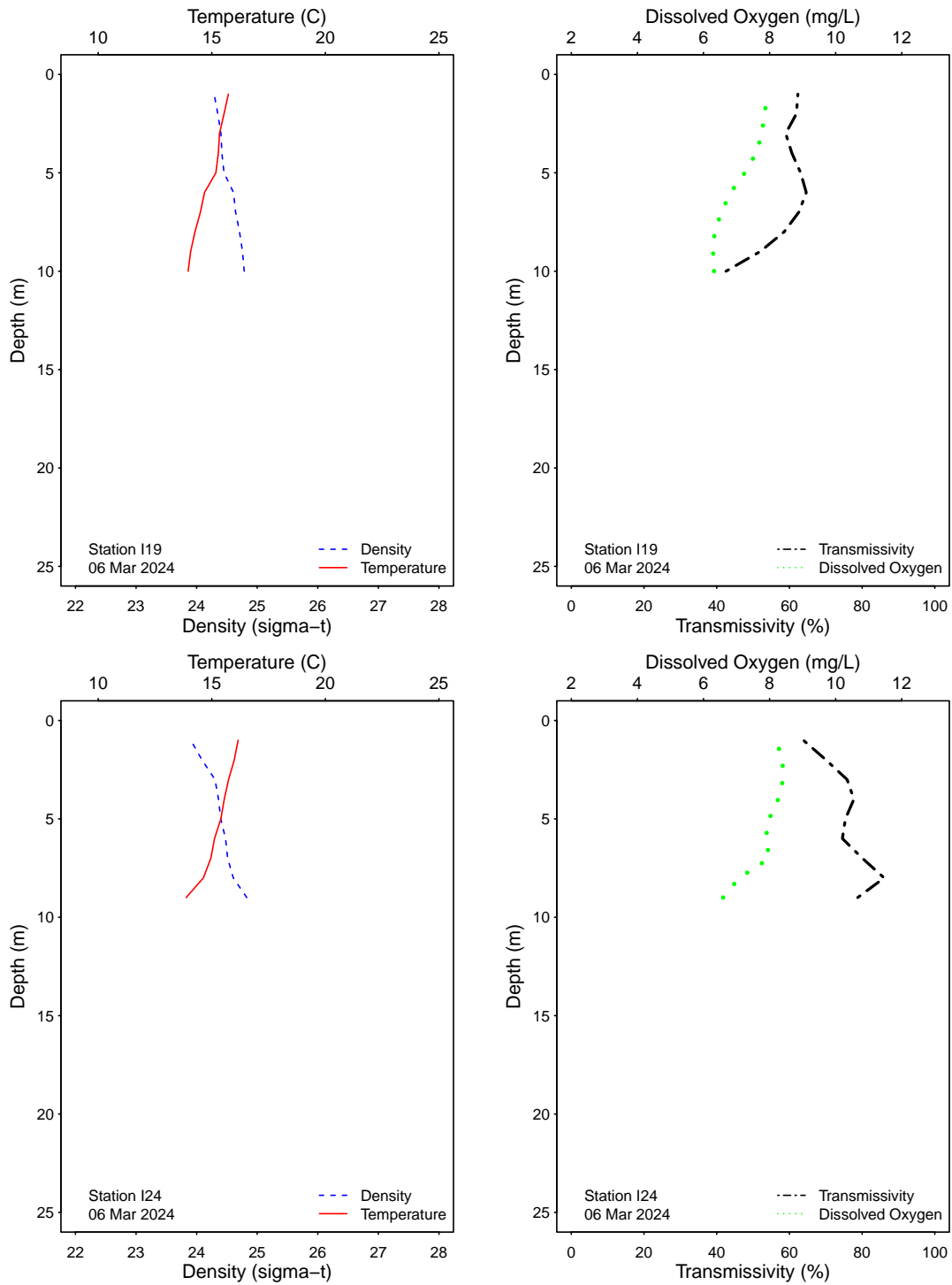


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

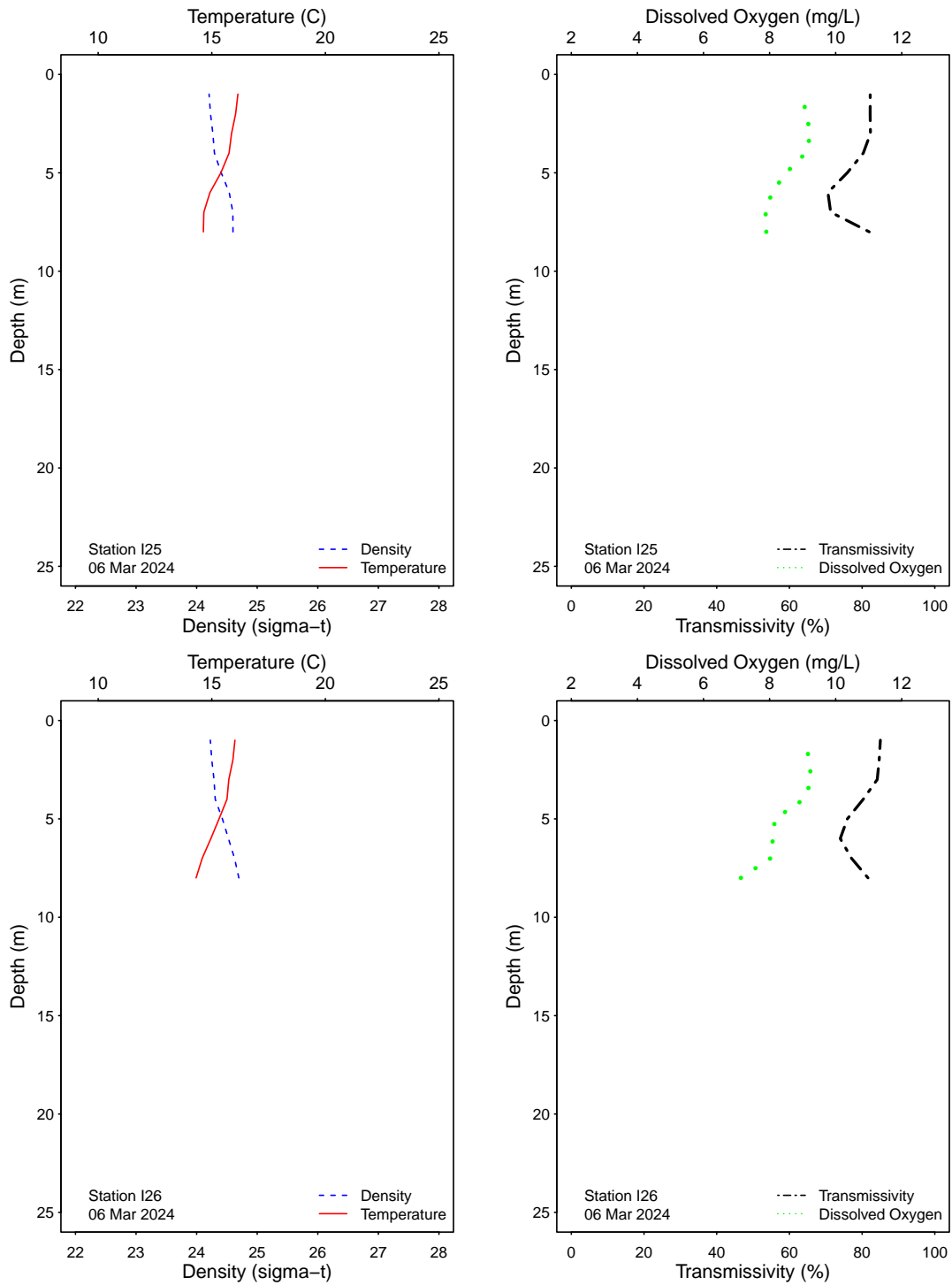


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

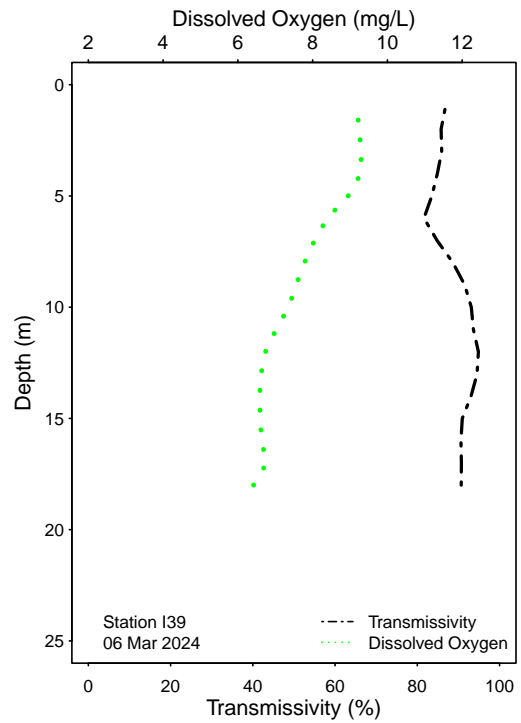
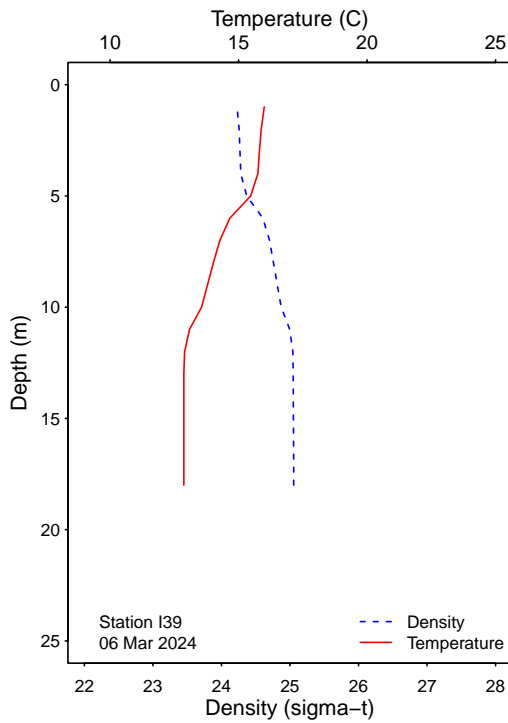
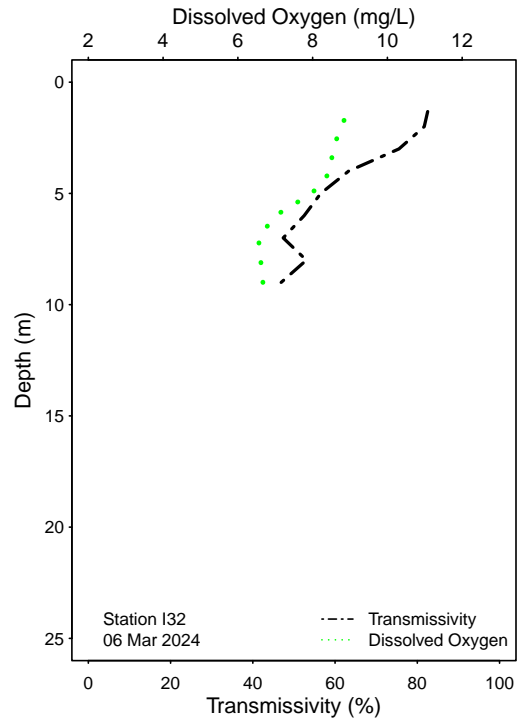
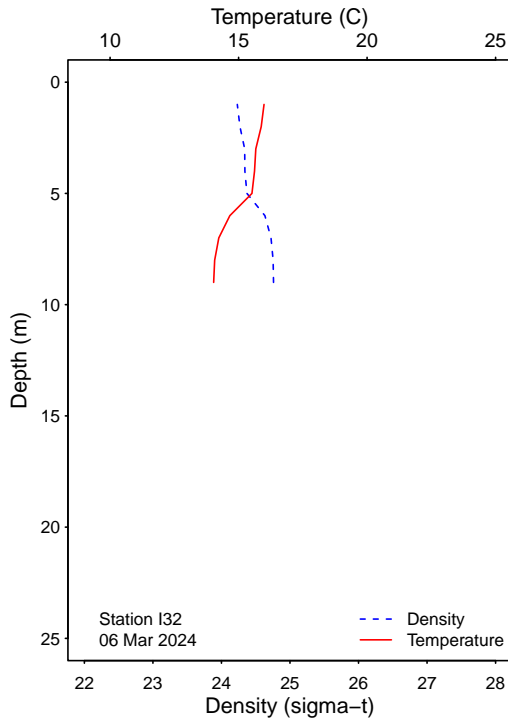


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

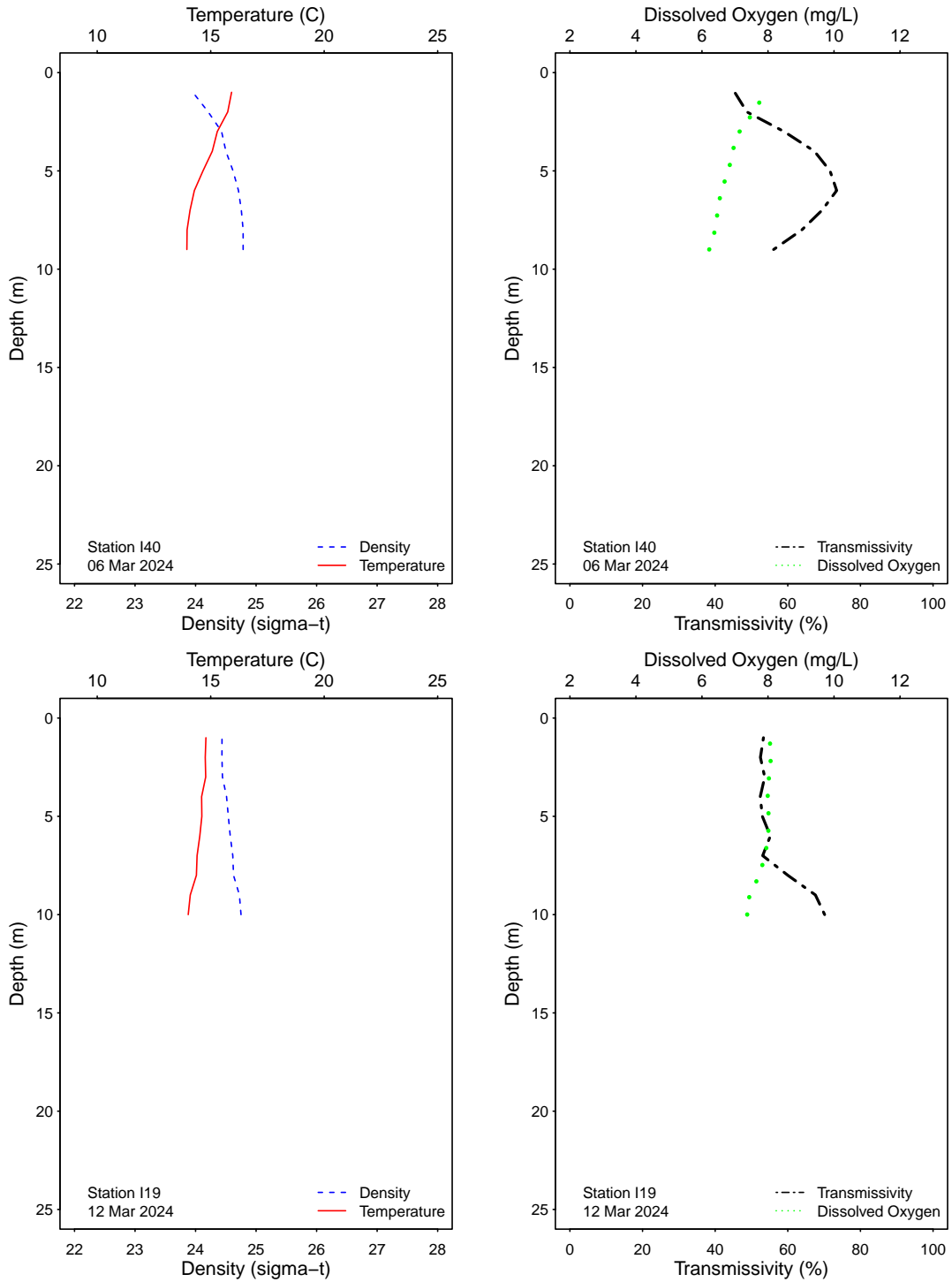


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

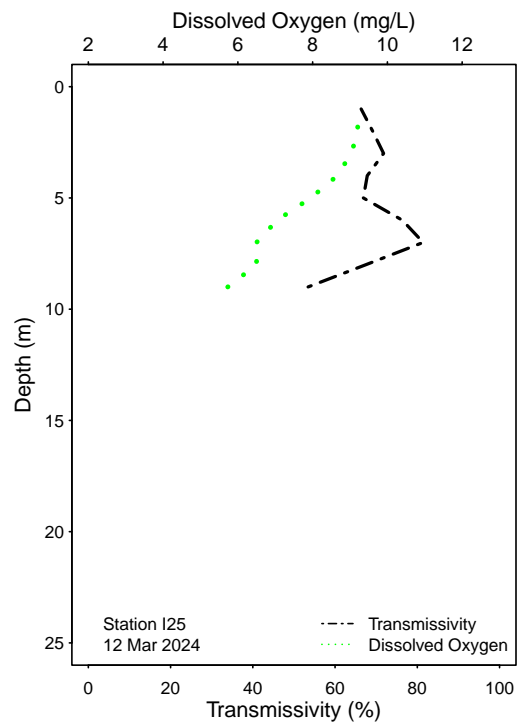
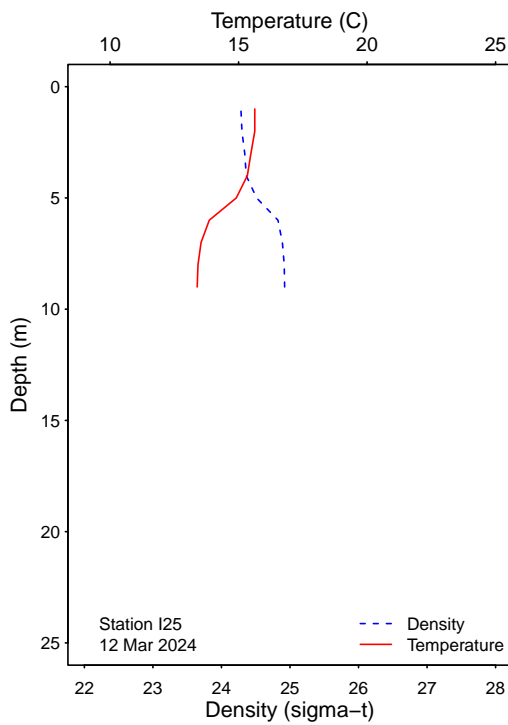
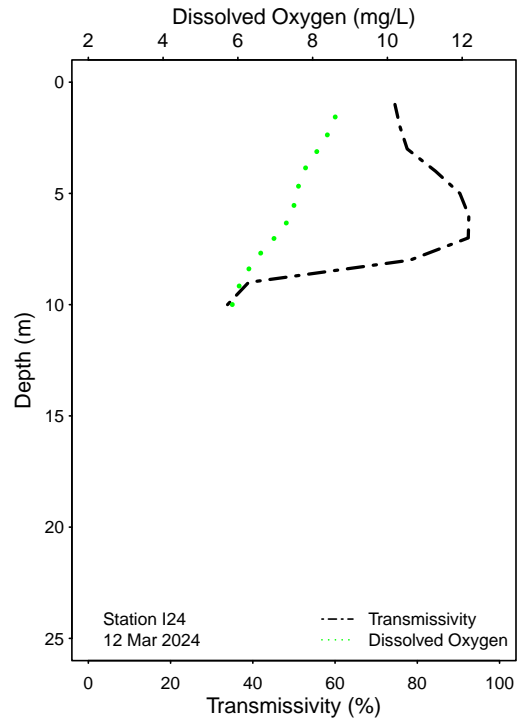
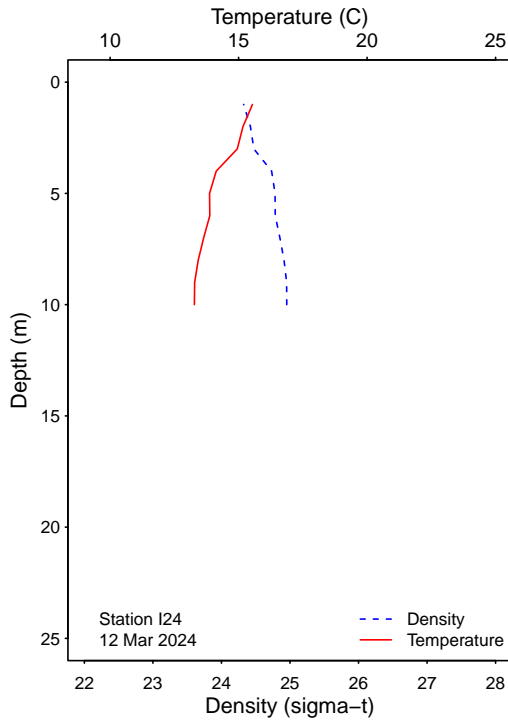


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

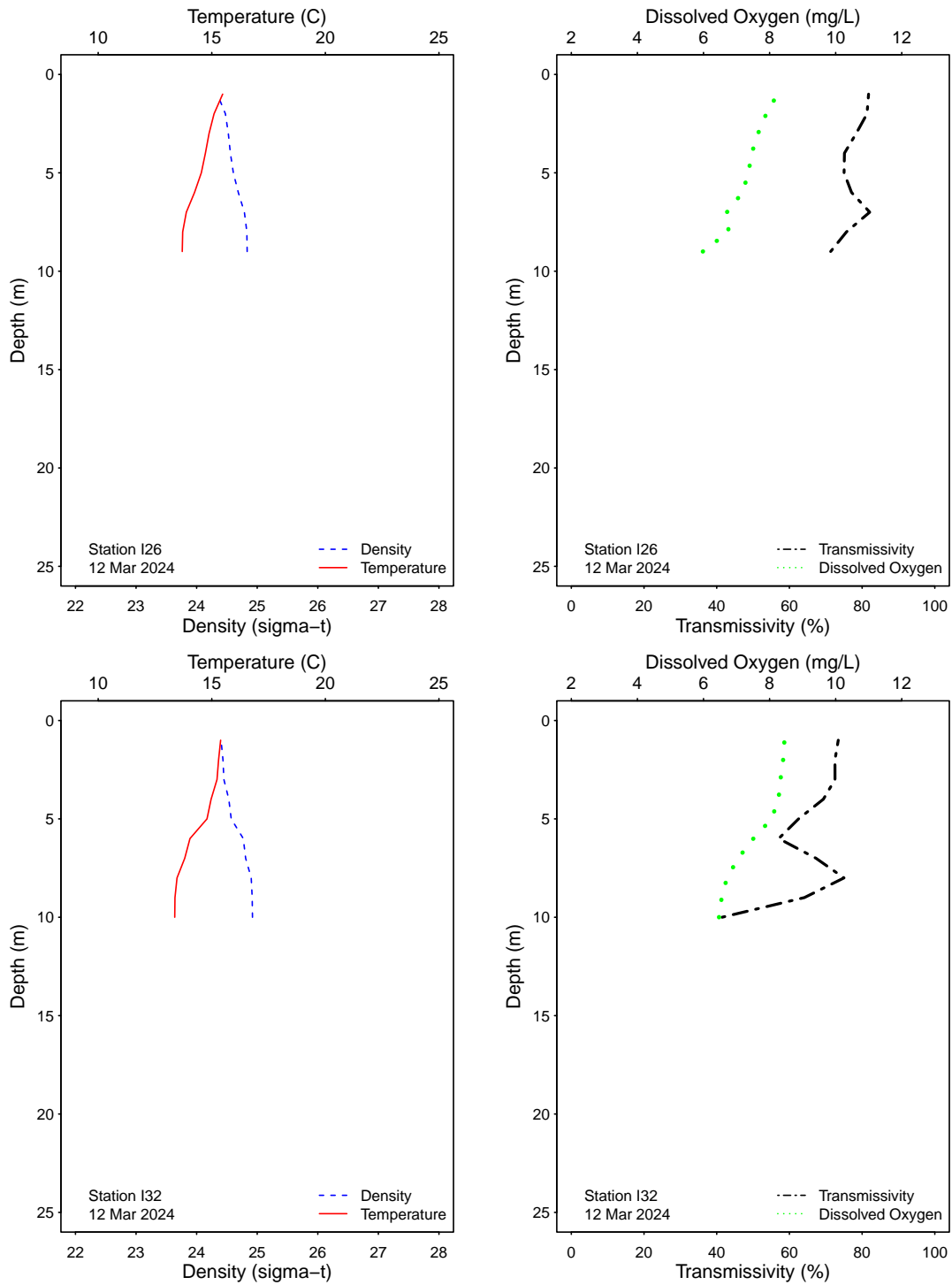


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

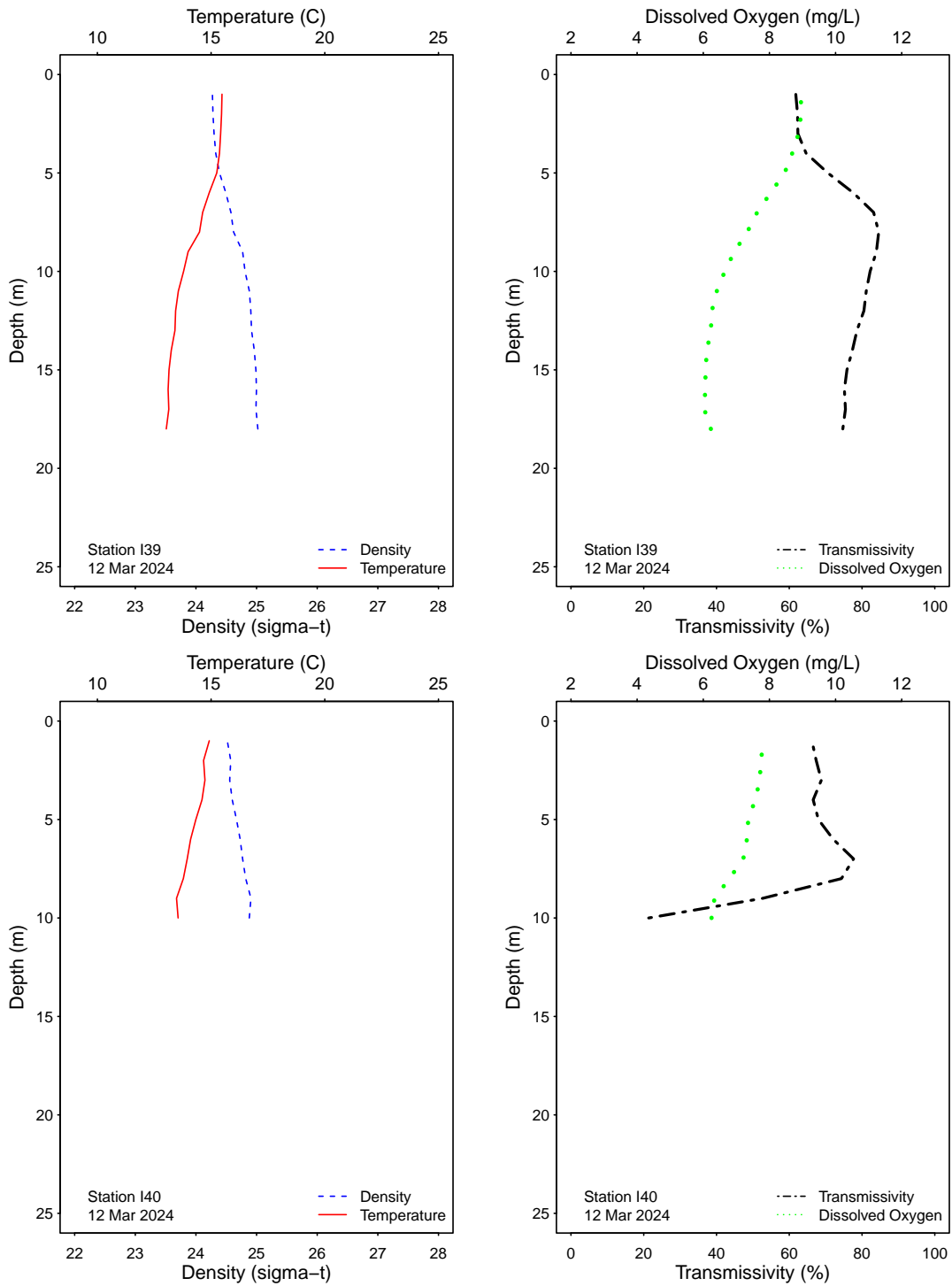


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

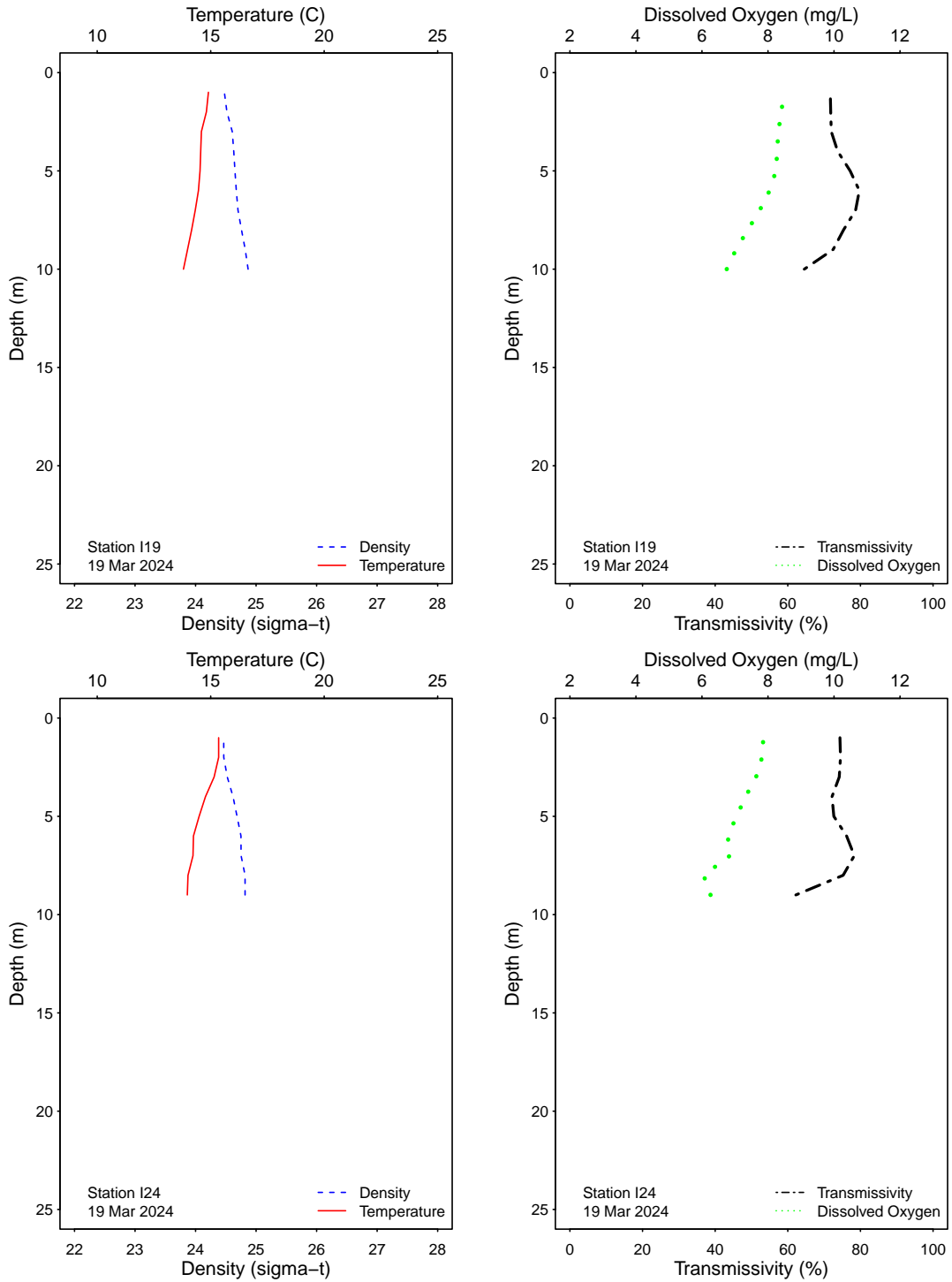


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

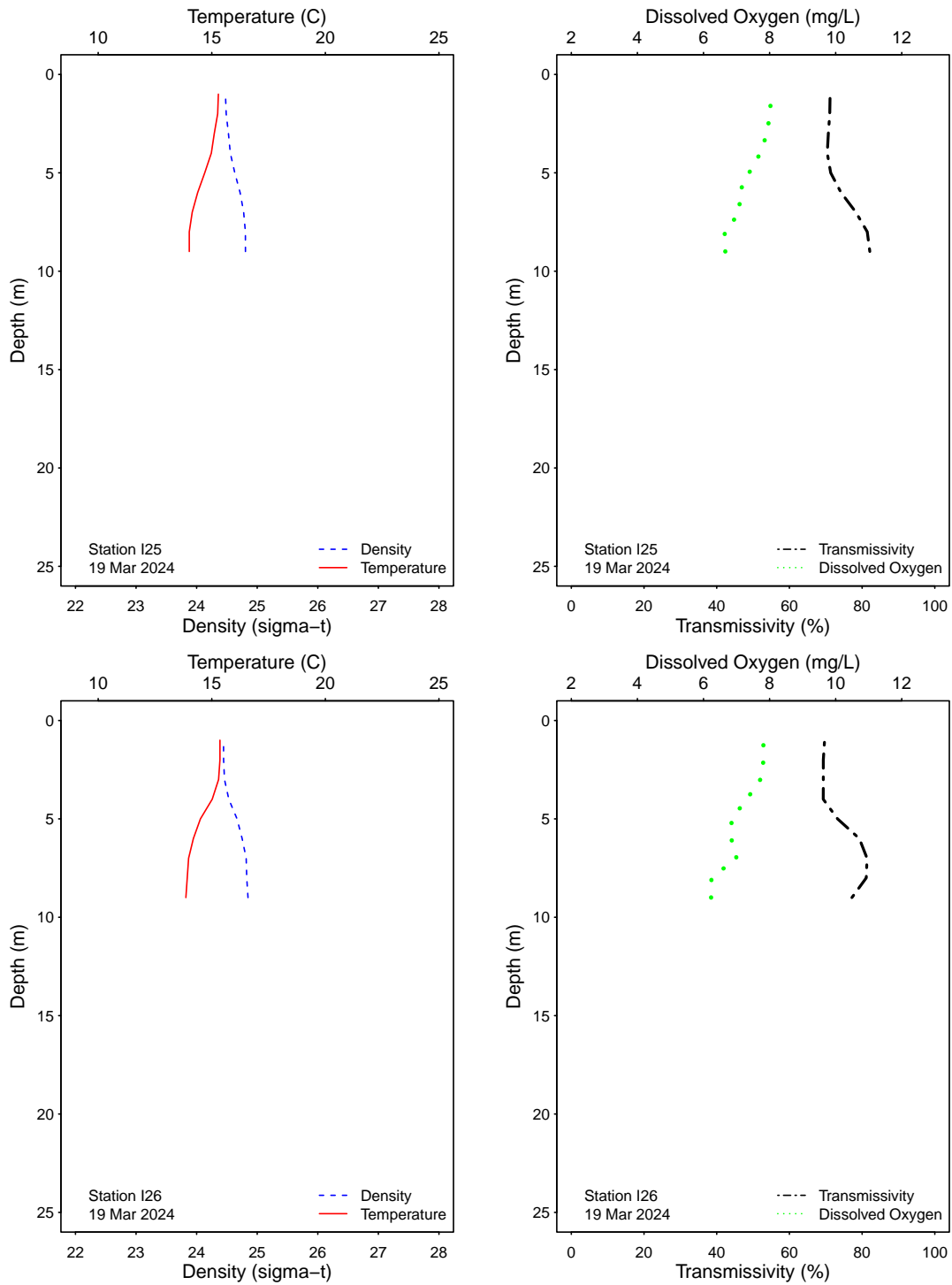


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

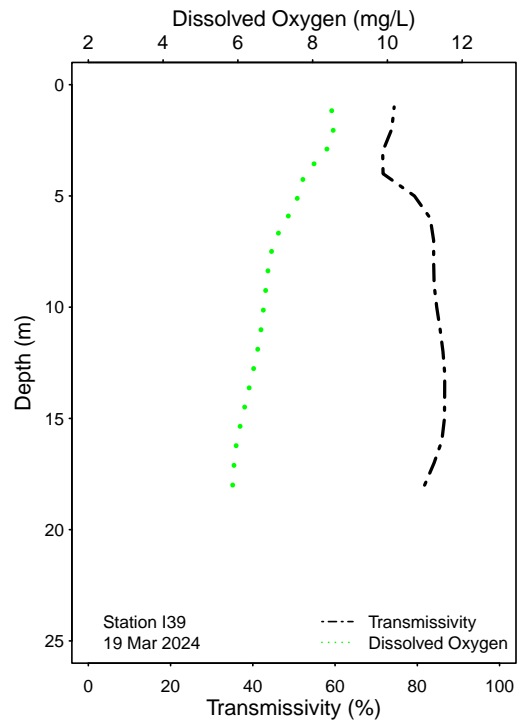
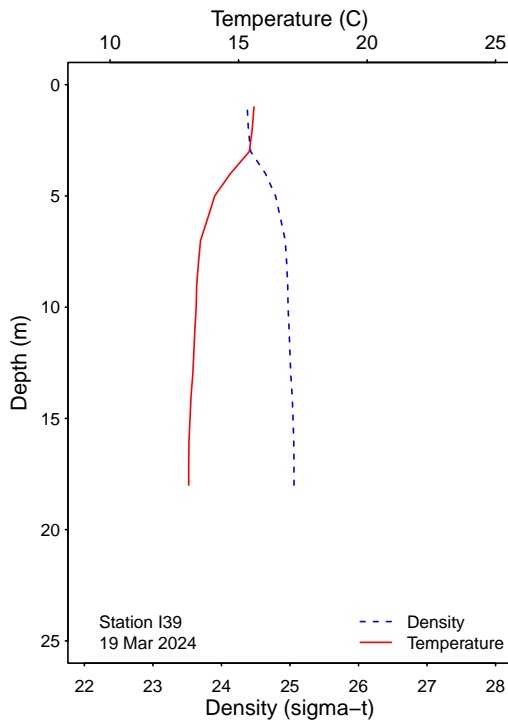
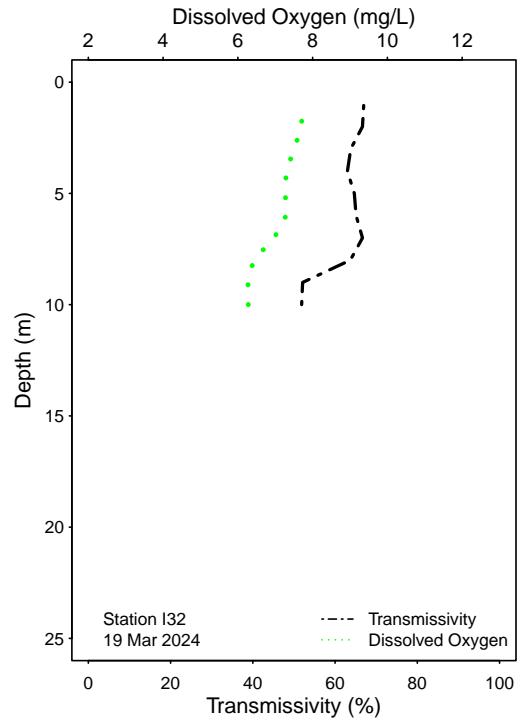
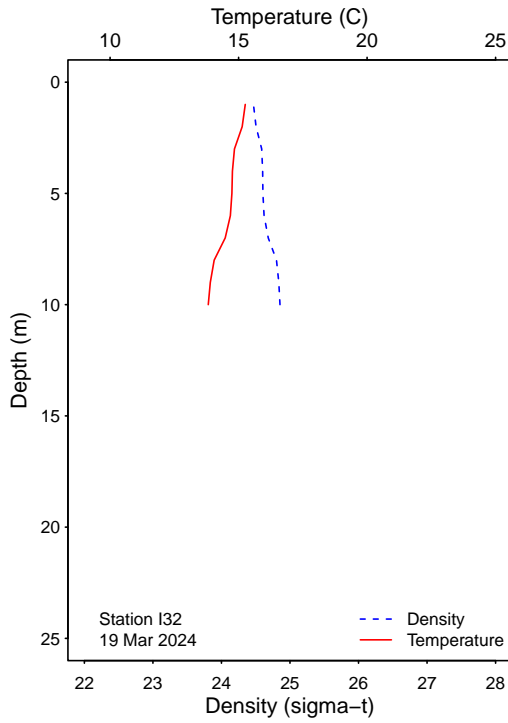


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

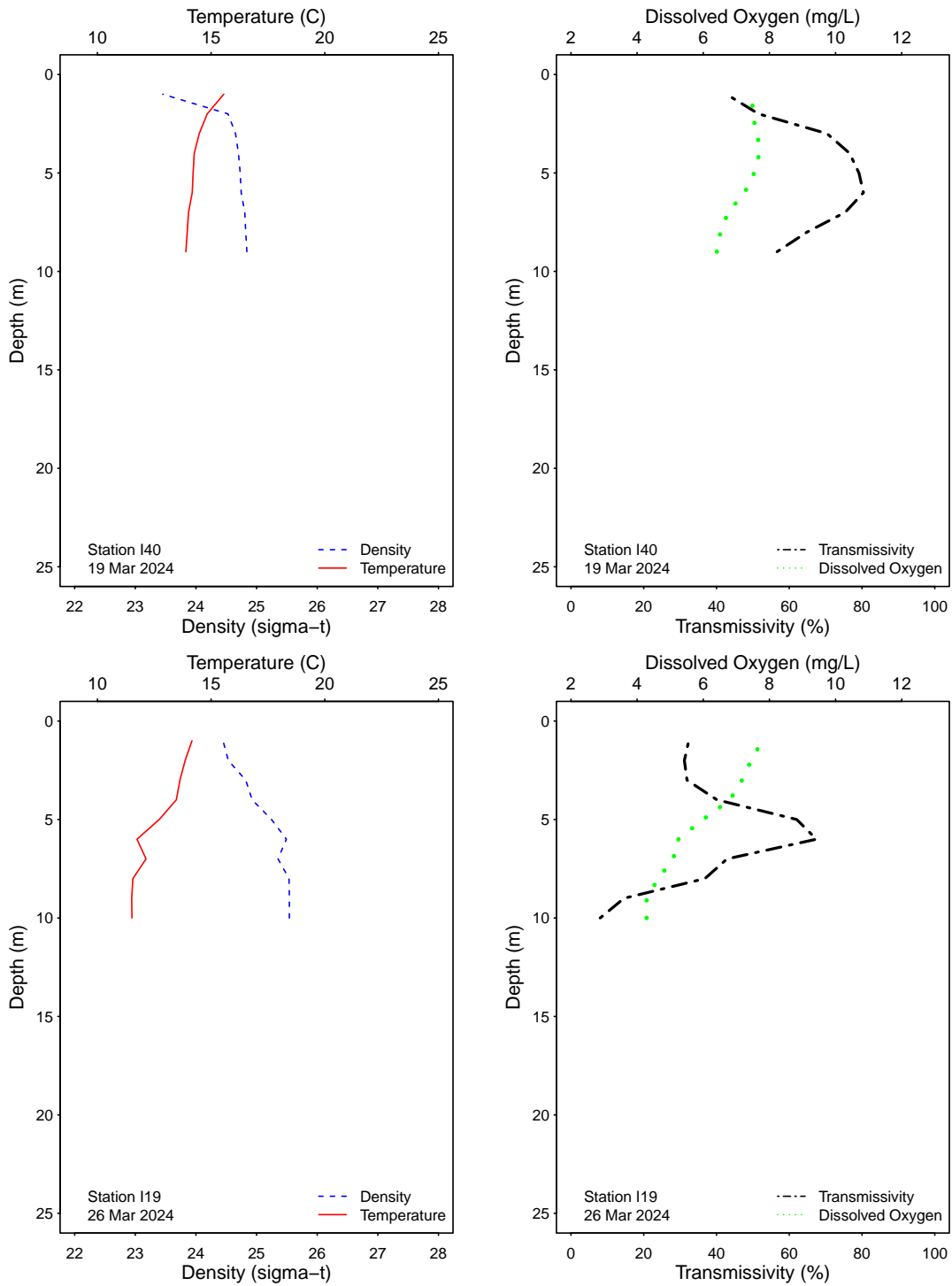


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

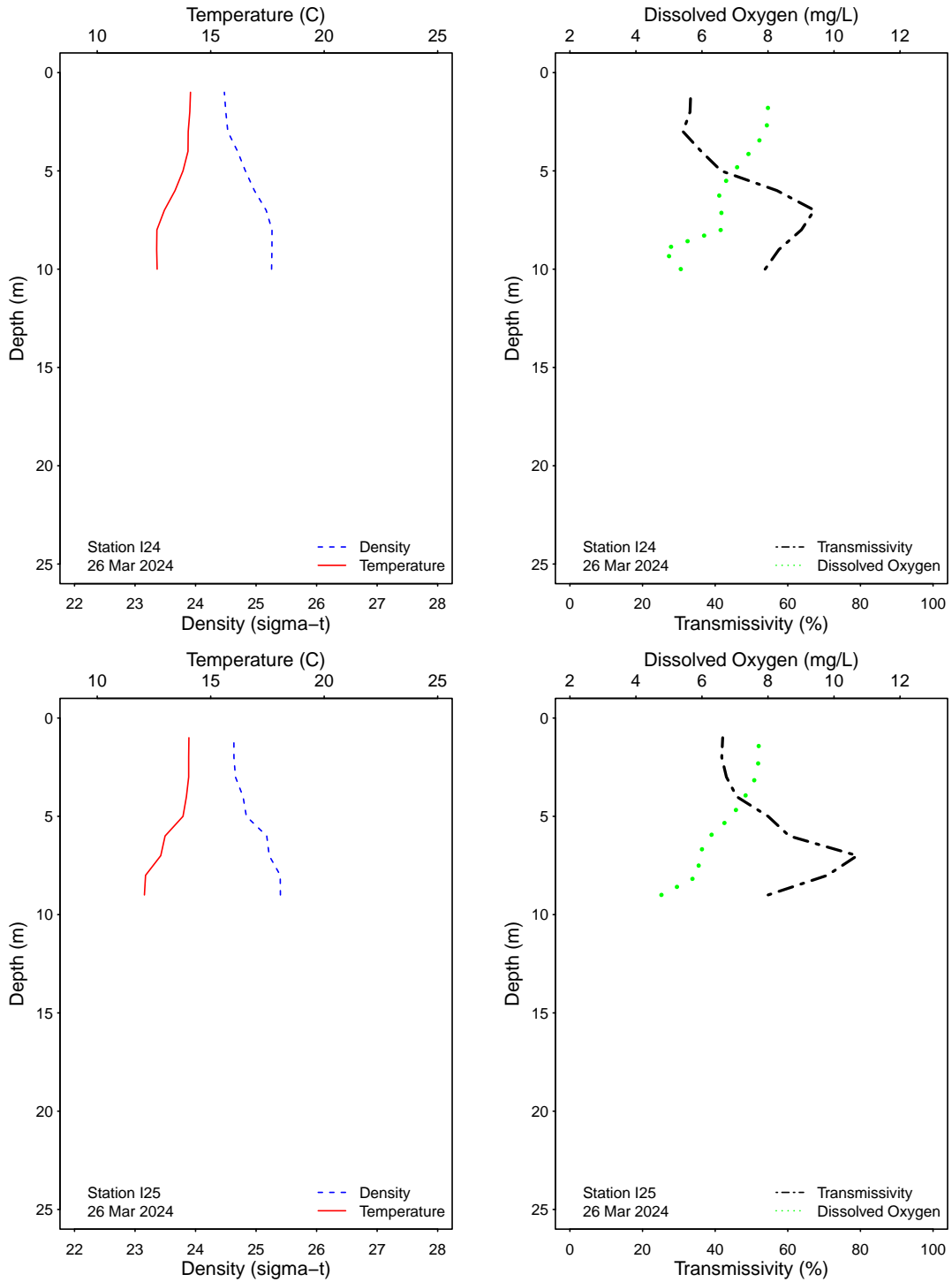


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

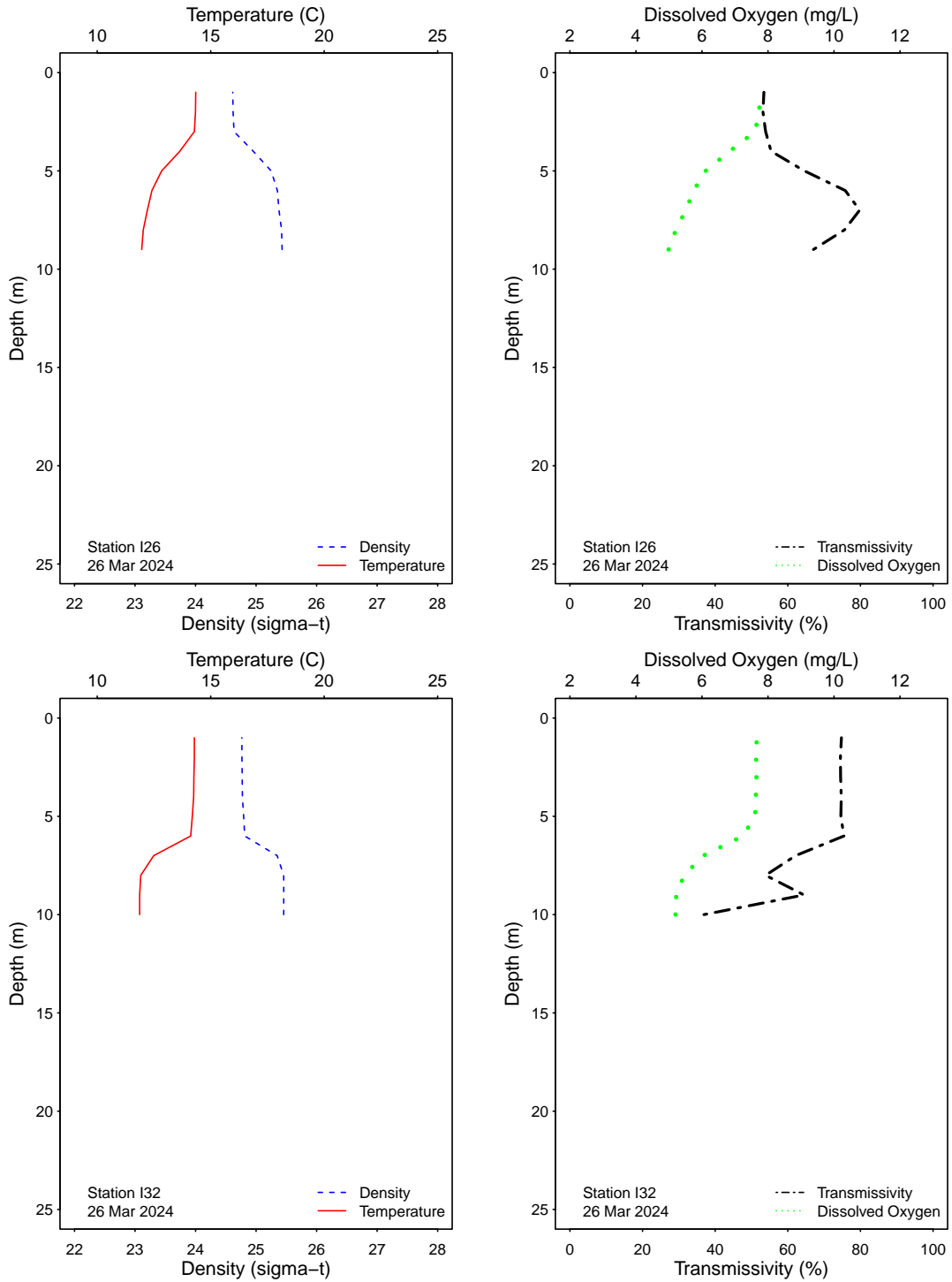


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

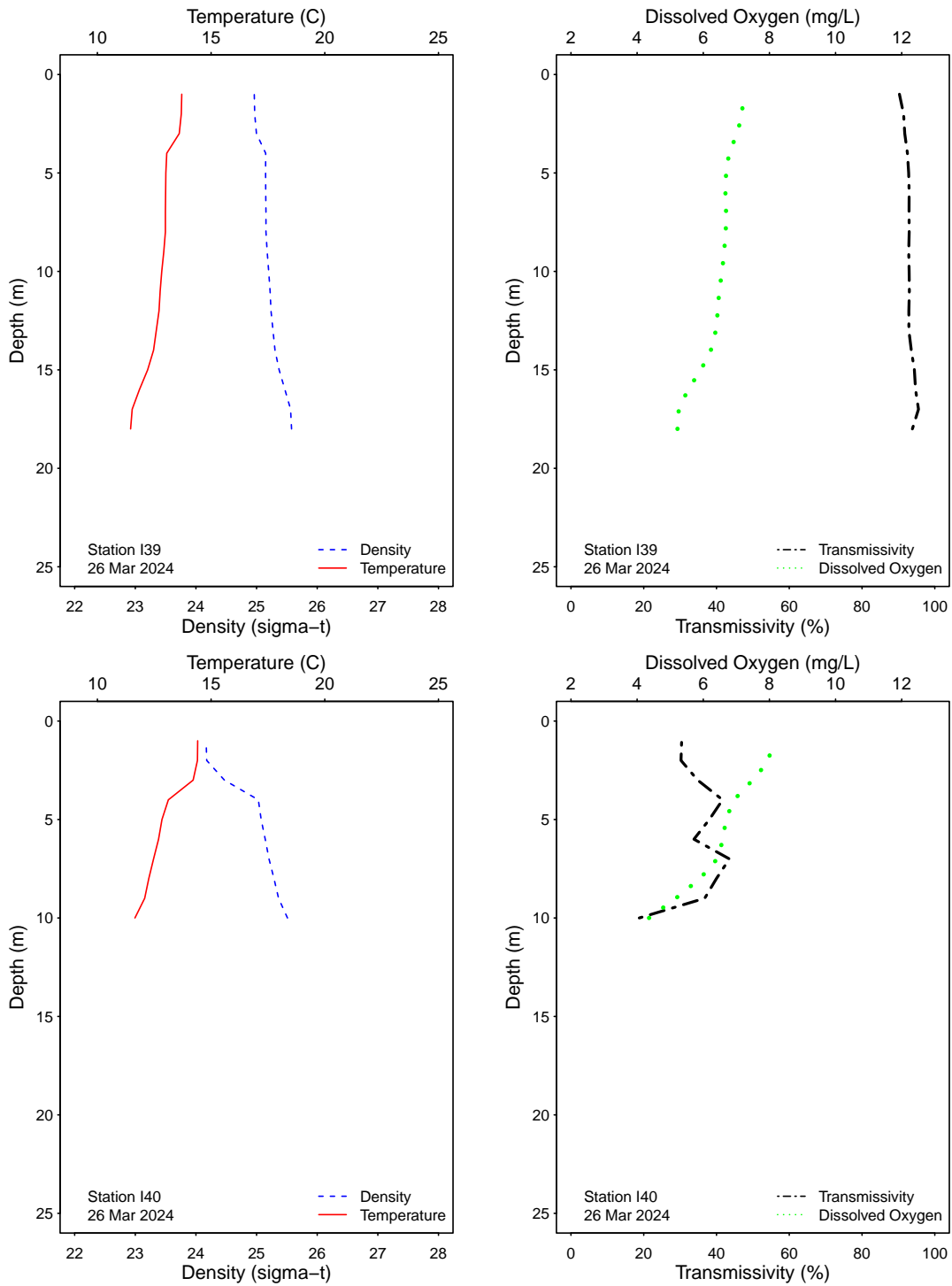


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO 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
I19	06 Mar 2024	6	KT,JF,BS,KA/	LAB DUPLICATE	700	110	14
I19	12 Mar 2024	6	KA,BS,JF,KT/	LAB DUPLICATE	16000	9200	3400
I19	19 Mar 2024	6	ADG,KT,KA,JF	LAB DUPLICATE	1400	240	120
I19	26 Mar 2024	6	KA,ADG,BS,JF	LAB DUPLICATE	16000	4200	1400
I40	06 Mar 2024	6	KT,JF,BS,KA/	LAB DUPLICATE	1400	240	140
I40	12 Mar 2024	6	KA,BS,JF,KT/	LAB DUPLICATE	5800	460	220
I40	19 Mar 2024	6	ADG,KT,KA,JF	LAB DUPLICATE	16000	4200	1000
I40	26 Mar 2024	6	KA,ADG,BS,JF	LAB DUPLICATE	16000	9000	3800
S12	05 Mar 2024		KA,JF/KT	LAB DUPLICATE	10	2	6
S12	12 Mar 2024		KA/KT/JF	LAB DUPLICATE	80	2	4
S12	19 Mar 2024		KA,KT/KT	LAB DUPLICATE	2	4	2
S12	26 Mar 2024		JF,KA/KA	LAB DUPLICATE	860	120	34

ns = not sampled

ND = no data

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