

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

FEBRUARY 2024

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309



March 31, 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 February 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 February, 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, S8, S9, S10, S11, and S12.
 - 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, S6, S8, S9, S10, S11, and S12.

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, S8, S9, S10, S11, and S12.
- A sewage-like odor was observed at station S5 on one or more days in February.
- 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 February 9, 12, 21, and 27.
- During February, each of the seven kelp bed stations were 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, I25, I26, I32, and I40.
 - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, I32, 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, I26, I32, and I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
- Water column temperatures ranged from 13.36 to 15.59°C. The difference between surface and bottom waters ranged from 0.12 to 1.90°C.
- Concentrations of chlorophyll *a* ranged from 0.30 to 14.85 µg/L at the kelp bed stations.
 - Chlorophyll *a* data are not available for sampling conducted on February 9th due to equipment failure.
- Nothing of sewage origin was observed at SBOO kelp stations in February.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 22, 23, 24).
- During February, one of the ten offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:

- The STV standard for total coliforms was exceeded at station I16.
- Water column temperatures ranged from 11.76 to 15.78°C at the offshore sites. The difference between surface and bottom waters ranged from 0.94 to 3.70°C.
- Chlorophyll *a* concentrations ranged from 0.08 to 15.38 µg/L at the offshore sites.
- Nothing of sewage origin was observed at SBOO offshore stations in February.
- CDOM data are available upon request.

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TABLES AND FIGURES

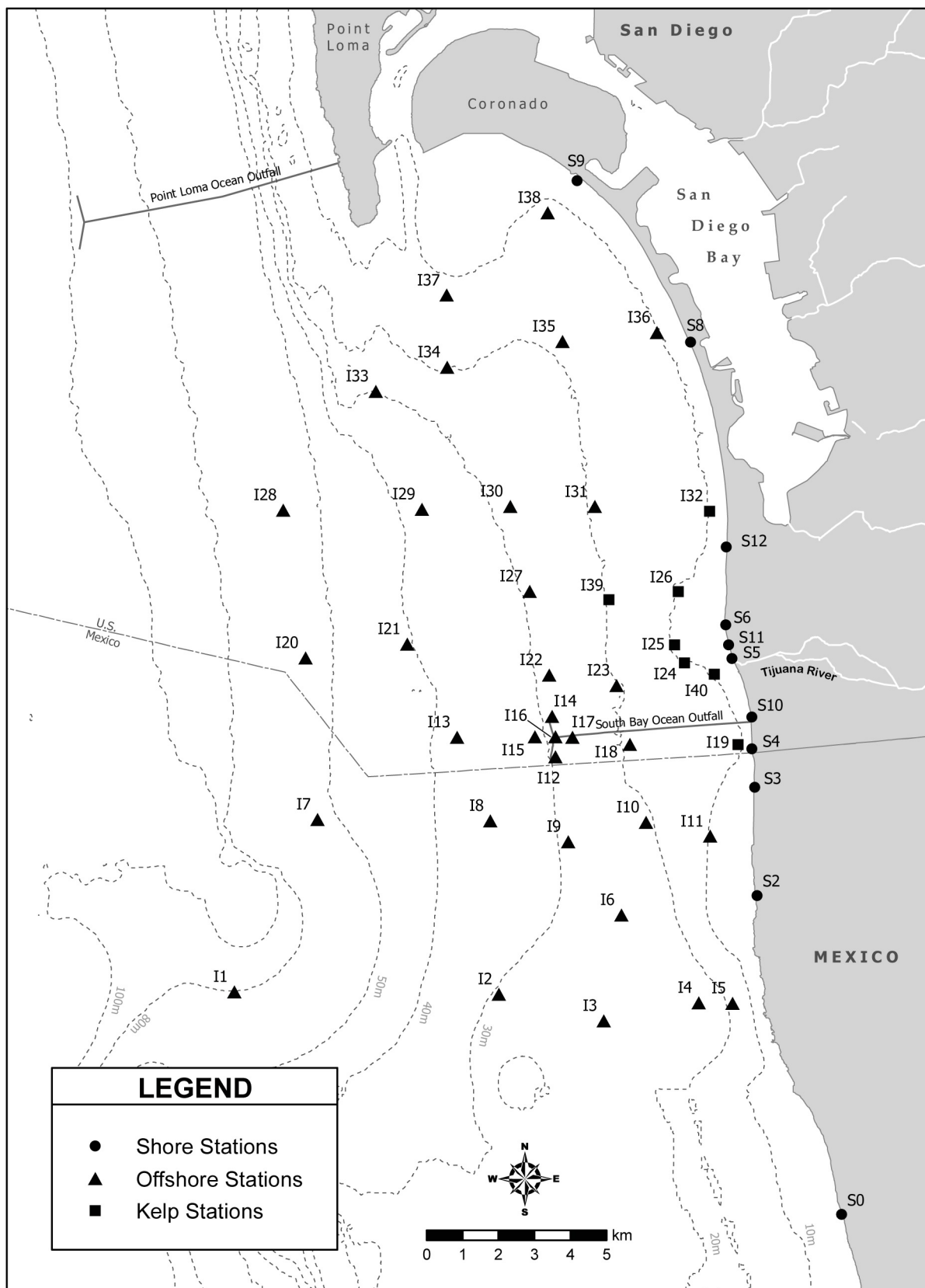


Figure 1.1 Station Map

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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 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
02 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
03 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
04 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
05 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
06 Feb 2024	*3885	*4745	*199	*17	*6	*6603	*567	*103
07 Feb 2024	*3885	5712	451	63	19	*6603	1045	261
08 Feb 2024	*4333	*4745	*849	*148	*24	*9832	*1509	*883
09 Feb 2024	*4398	*4745	*849	*148	*24	*9722	*1509	*883
10 Feb 2024	*4398	*4745	*849	*148	*24	*9722	*1509	*883
11 Feb 2024	*4398	*4745	*849	*148	*24	*9722	*1509	*883
12 Feb 2024	*4398	*4745	*849	*148	*24	*9722	*1509	*883
13 Feb 2024	5006	5712	529	63	15	9255	769	360
14 Feb 2024	5006	5712	529	63	15	9255	769	360
15 Feb 2024	*4112	*7251	*2134	*148	*24	*8673	*1916	*742
16 Feb 2024	*4112	*7251	*2134	*148	*24	*8673	*1916	*742
17 Feb 2024	*4112	*7251	*2134	*148	*24	*8673	*1916	*742
18 Feb 2024	*4112	*7251	*2134	*148	*24	*8673	*1916	*742
19 Feb 2024	*4112	*7251	*2134	*148	*24	*8673	*1916	*742
20 Feb 2024	1955	8020	1301	190	30	3800	1101	582
21 Feb 2024	1955	8020	1301	190	30	3800	1101	582
22 Feb 2024	1955	*7251	*747	*71	*27	3800	*606	*292
23 Feb 2024	*1350	*7251	*747	*71	*27	*3310	*606	*292
24 Feb 2024	*1350	*7251	*747	*71	*27	*3310	*606	*292
25 Feb 2024	*1350	*7251	*747	*71	*27	*3310	*606	*292
26 Feb 2024	*1350	*7251	*747	*71	*27	*3310	*606	*292
27 Feb 2024	*1350	6785	1229	35	16	*3310	1101	333
28 Feb 2024	687	6785	1229	35	16	1407	1101	333
29 Feb 2024	*649	*9736	*1117	*71	*27	*824	*974	*341

* 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
07 Feb 2024	ns	E	E	E	E	ns	E	E
09 Feb 2024	E	ns	ns	ns	ns	E	ns	ns
13 Feb 2024	E	E	IC	IC	IC	E	IC	IC
20 Feb 2024	IC	E	IC	E	IC	IC	IC	IC
27 Feb 2024	ns	E	E	IC	IC	ns	E	E
28 Feb 2024	IC	ns	ns	ns	ns	IC	ns	ns

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 Feb 2024	921	2115	116	8	4	2867	192	136
02 Feb 2024	921	2115	116	8	4	2867	192	136
03 Feb 2024	921	2115	116	8	4	2867	192	136
04 Feb 2024	921	2115	116	8	4	2867	192	136
05 Feb 2024	921	2115	116	8	4	2867	192	136
06 Feb 2024	1033	4678	134	11	4	5409	236	151
07 Feb 2024	1033	5473	283	34	10	5409	454	313
08 Feb 2024	1033	5473	283	34	10	5409	454	313
09 Feb 2024	1294	5473	283	34	10	5774	454	313
10 Feb 2024	1294	5473	283	34	10	5774	454	313
11 Feb 2024	1294	5473	283	34	10	5774	454	313
12 Feb 2024	1294	5473	283	34	10	5774	454	313
13 Feb 2024	1673	4848	352	38	10	4847	478	331
14 Feb 2024	1673	4848	352	38	10	4847	478	331
15 Feb 2024	1673	4848	352	38	10	4847	478	331
16 Feb 2024	1673	4848	352	38	10	4847	478	331
17 Feb 2024	1673	4848	352	38	10	4847	478	331
18 Feb 2024	1673	4848	352	38	10	4847	478	331
19 Feb 2024	1673	4848	352	38	10	4847	478	331
20 Feb 2024	1087	4848	460	86	17	3454	424	603
21 Feb 2024	1087	4848	460	86	17	3454	424	603
22 Feb 2024	1087	4848	460	86	17	3454	424	603
23 Feb 2024	1087	4848	460	86	17	3454	424	603
24 Feb 2024	1087	4848	460	86	17	3454	424	603
25 Feb 2024	1087	4848	460	86	17	3454	424	603
26 Feb 2024	1087	4848	460	86	17	3454	424	603
27 Feb 2024	982	4037	1519	86	17	2692	1742	687
28 Feb 2024	549	4037	1519	86	17	1324	1742	687
29 Feb 2024	549	4037	1519	86	17	1324	1742	687

* 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
February	E	E	E	E	E	E	E	E

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 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
02 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
03 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
04 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
05 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
06 Feb 2024	*15500	*16000	*5580	*2	*8	*16000	*8600	*2520
07 Feb 2024	*15500	16000	11000	2	12	*16000	16000	4800
08 Feb 2024	*16000	*16000	*13500	*8001	*192	*16000	*16000	*9400
09 Feb 2024	*16000	*16000	*13500	*8001	*192	*16000	*16000	*9400
10 Feb 2024	*16000	*16000	*13500	*8001	*192	*16000	*16000	*9400
11 Feb 2024	*16000	*16000	*13500	*8001	*192	*16000	*16000	*9400
12 Feb 2024	*16000	*16000	*13500	*8001	*192	*16000	*16000	*9400
13 Feb 2024	16000	16000	11000	20	8	16000	16000	4800
14 Feb 2024	16000	16000	11000	20	8	16000	16000	4800
15 Feb 2024	*16000	*16000	*13500	*8010	*194	*16000	*16000	*9400
16 Feb 2024	*16000	*16000	*13500	*8010	*194	*16000	*16000	*9400
17 Feb 2024	*16000	*16000	*13500	*8010	*194	*16000	*16000	*9400
18 Feb 2024	*16000	*16000	*13500	*8010	*194	*16000	*16000	*9400
19 Feb 2024	*16000	*16000	*13500	*8010	*194	*16000	*16000	*9400
20 Feb 2024	16000	16000	11000	3400	380	16000	16000	4800
21 Feb 2024	16000	16000	11000	3400	380	16000	16000	4800
22 Feb 2024	16000	*16000	*8700	*1710	*344	16000	*8600	*3050
23 Feb 2024	*14000	*16000	*8700	*1710	*344	*16000	*8600	*3050
24 Feb 2024	*14000	*16000	*8700	*1710	*344	*16000	*8600	*3050
25 Feb 2024	*14000	*16000	*8700	*1710	*344	*16000	*8600	*3050
26 Feb 2024	*14000	*16000	*8700	*1710	*344	*16000	*8600	*3050
27 Feb 2024	*14000	16000	16000	20	8	*16000	16000	4200
28 Feb 2024	12000	16000	16000	20	8	16000	16000	4200
29 Feb 2024	*8600	*16000	*8700	*1710	*344	*8380	*8600	*2750

* 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
February	E	E	E	E	E	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	09 Feb 2024	1044	>16000	9400	8000
S10	13 Feb 2024	814	>16000	7600	4200
S10	20 Feb 2024	829	760	140e	110
S10	28 Feb 2024	805	240e	46	38e
S11	07 Feb 2024	949	>16000	>12000	>12000
S11	13 Feb 2024	940	1200	52	660
S11	20 Feb 2024	1020	980	120e	34e
S11	27 Feb 2024	1041	>16000	>12000	9600
S12	07 Feb 2024	1023	>16000	11000	>12000
S12	13 Feb 2024	1003	340e	10e	100e
S12	20 Feb 2024	1044	1300	220e	220e
S12	27 Feb 2024	1113	4200	560	92
S4	09 Feb 2024	1100	>16000	4600	4000
S4	13 Feb 2024	826	>16000	8400	2800e
S4	20 Feb 2024	844	1200	100e	60e
S4	28 Feb 2024	818	300e	46	30e
S5	07 Feb 2024	928	>16000	>12000	>12000
S5	13 Feb 2024	925	>16000	>12000	5800
S5	20 Feb 2024	959	>16000	>12000	>12000
S5	27 Feb 2024	1018	>16000	5200	600e
S6	07 Feb 2024	1001	>16000	>12000	>12000
S6	13 Feb 2024	951	1400	80e	740
S6	20 Feb 2024	1032	960	180e	60
S6	27 Feb 2024	1054	>16000	9000	2600e
S8	07 Feb 2024	1042	>16000	>12000	>12000
S8	13 Feb 2024	1018	20e	<2	4e
S8	20 Feb 2024	1101	3400e	520	260e
S8	27 Feb 2024	1129	2e	2e	<2
S9	07 Feb 2024	1102	>16000	1800e	1800e
S9	13 Feb 2024	1035	8e	2e	2e
S9	20 Feb 2024	1118	680	72	50
S9	27 Feb 2024	1147	<2	<2	<2

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S10	07 Feb 2024			S4 and S10 not collected due to inaccessibility.
S4	07 Feb 2024			S4 and S10 not collected due to inaccessibility.
S10	27 Feb 2024			S4 and S10 were inaccessible due to flooding.
S4	27 Feb 2024			S4 and S10 were inaccessible due to flooding.
S10	28 Feb 2024			This analysis was run with D-SHR on 2/28. (20240301 KA)
S4	28 Feb 2024			This analysis was run with D-SHR on 2/28. (20240301 KA)

Table 2.8

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

Station	Date	Parameter	Value
S10	09 Feb 2024	Arrive Time	1044
S10	09 Feb 2024	Weather	Moderate rain
S10	09 Feb 2024	Wind Speed (kts)	4.8
S10	09 Feb 2024	Wind Dir	SW
S10	09 Feb 2024	Animal Life	
S10	09 Feb 2024	Floatables	None
S10	09 Feb 2024	Water Color	Green
S10	09 Feb 2024	Current Direction	S
S10	09 Feb 2024	Water Temp (C)	12
S10	09 Feb 2024	Wave Height (ft)	5
S10	09 Feb 2024	High Tide (ft)	6.55
S10	09 Feb 2024	High Tide Time	805
S10	09 Feb 2024	Low Tide (ft)	1.36
S10	09 Feb 2024	Low Tide Time	200
S10	09 Feb 2024	Comments	Inaccessible on 2/8; Water clear; Trash-3; Kelp; Seagrass; Debris
S10	13 Feb 2024	Arrive Time	814
S10	13 Feb 2024	Weather	Partly cloudy
S10	13 Feb 2024	Wind Speed (kts)	1.4
S10	13 Feb 2024	Wind Dir	N
S10	13 Feb 2024	Animal Life	
S10	13 Feb 2024	Floatables	None
S10	13 Feb 2024	Water Color	Green
S10	13 Feb 2024	Current Direction	S
S10	13 Feb 2024	Water Temp (C)	12.7
S10	13 Feb 2024	Wave Height (ft)	4
S10	13 Feb 2024	High Tide (ft)	4.57
S10	13 Feb 2024	High Tide Time	1112
S10	13 Feb 2024	Low Tide (ft)	0.64
S10	13 Feb 2024	Low Tide Time	522
S10	13 Feb 2024	Comments	Water clear; Trash-3; Debris
S10	20 Feb 2024	Arrive Time	829
S10	20 Feb 2024	Weather	Cloudy
S10	20 Feb 2024	Wind Speed (kts)	2.4
S10	20 Feb 2024	Wind Dir	W
S10	20 Feb 2024	Animal Life	
S10	20 Feb 2024	Floatables	Foam
S10	20 Feb 2024	Water Color	Green
S10	20 Feb 2024	Current Direction	S
S10	20 Feb 2024	Water Temp (C)	13.4
S10	20 Feb 2024	Wave Height (ft)	5
S10	20 Feb 2024	High Tide (ft)	5.16
S10	20 Feb 2024	High Tide Time	619
S10	20 Feb 2024	Low Tide (ft)	2.26
S10	20 Feb 2024	Low Tide Time	24
S10	20 Feb 2024	Comments	Water clear; Trash-1; Kelp
S10	28 Feb 2024	Arrive Time	805
S10	28 Feb 2024	Weather	Cloudy
S10	28 Feb 2024	Wind Speed (kts)	3.1
S10	28 Feb 2024	Wind Dir	E
S10	28 Feb 2024	Animal Life	
S10	28 Feb 2024	Floatables	None
S10	28 Feb 2024	Water Color	Green

Station	Date	Parameter	Value
S10	28 Feb 2024	Current Direction	S
S10	28 Feb 2024	Water Temp (C)	12.7
S10	28 Feb 2024	Wave Height (ft)	5
S10	28 Feb 2024	High Tide (ft)	3.74
S10	28 Feb 2024	High Tide Time	1039
S10	28 Feb 2024	Low Tide (ft)	0.94
S10	28 Feb 2024	Low Tide Time	457
S10	28 Feb 2024	Comments	Inaccessible on 2/27; Water clear; Trash-2; Kelp;Sea-grass;Debris
S11	07 Feb 2024	Arrive Time	949
S11	07 Feb 2024	Weather	Cloudy
S11	07 Feb 2024	Wind Speed (kts)	1.1
S11	07 Feb 2024	Wind Dir	W
S11	07 Feb 2024	Animal Life	
S11	07 Feb 2024	Floatables	Foam; Plastic
S11	07 Feb 2024	Water Color	Brown
S11	07 Feb 2024	Current Direction	S
S11	07 Feb 2024	Water Temp (C)	12
S11	07 Feb 2024	Wave Height (ft)	6
S11	07 Feb 2024	High Tide (ft)	5.93
S11	07 Feb 2024	High Tide Time	634
S11	07 Feb 2024	Low Tide (ft)	2.17
S11	07 Feb 2024	Low Tide Time	22
S11	07 Feb 2024	Comments	Water turbid; Trash-5; Kelp;Seagrass;Debris
S11	13 Feb 2024	Arrive Time	940
S11	13 Feb 2024	Weather	Sunny
S11	13 Feb 2024	Wind Speed (kts)	2.2
S11	13 Feb 2024	Wind Dir	SE
S11	13 Feb 2024	Animal Life	
S11	13 Feb 2024	Floatables	None
S11	13 Feb 2024	Water Color	Green
S11	13 Feb 2024	Current Direction	S
S11	13 Feb 2024	Water Temp (C)	10.9
S11	13 Feb 2024	Wave Height (ft)	5
S11	13 Feb 2024	High Tide (ft)	4.57
S11	13 Feb 2024	High Tide Time	1112
S11	13 Feb 2024	Low Tide (ft)	0.64
S11	13 Feb 2024	Low Tide Time	522
S11	13 Feb 2024	Comments	Water clear; Trash-3; Debris
S11	20 Feb 2024	Arrive Time	1020
S11	20 Feb 2024	Weather	Cloudy
S11	20 Feb 2024	Wind Speed (kts)	7.5
S11	20 Feb 2024	Wind Dir	SW
S11	20 Feb 2024	Animal Life	
S11	20 Feb 2024	Floatables	Foam
S11	20 Feb 2024	Water Color	Green
S11	20 Feb 2024	Current Direction	S
S11	20 Feb 2024	Water Temp (C)	11.7
S11	20 Feb 2024	Wave Height (ft)	5
S11	20 Feb 2024	High Tide (ft)	5.16
S11	20 Feb 2024	High Tide Time	619
S11	20 Feb 2024	Low Tide (ft)	2.26
S11	20 Feb 2024	Low Tide Time	24
S11	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S11	27 Feb 2024	Arrive Time	1041
S11	27 Feb 2024	Weather	Partly cloudy
S11	27 Feb 2024	Wind Speed (kts)	3.6

Station	Date	Parameter	Value
S11	27 Feb 2024	Wind Dir	W
S11	27 Feb 2024	Animal Life	
S11	27 Feb 2024	Floatables	Foam
S11	27 Feb 2024	Water Color	Green
S11	27 Feb 2024	Current Direction	S
S11	27 Feb 2024	Water Temp (C)	12.7
S11	27 Feb 2024	Wave Height (ft)	3
S11	27 Feb 2024	High Tide (ft)	4.29
S11	27 Feb 2024	High Tide Time	1006
S11	27 Feb 2024	Low Tide (ft)	0.9
S11	27 Feb 2024	Low Tide Time	419
S11	27 Feb 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S12	07 Feb 2024	Arrive Time	1023
S12	07 Feb 2024	Weather	Partly cloudy
S12	07 Feb 2024	Wind Speed (kts)	10.5
S12	07 Feb 2024	Wind Dir	W
S12	07 Feb 2024	Animal Life	
S12	07 Feb 2024	Floatables	Foam
S12	07 Feb 2024	Water Color	Green
S12	07 Feb 2024	Current Direction	S
S12	07 Feb 2024	Water Temp (C)	13
S12	07 Feb 2024	Wave Height (ft)	6
S12	07 Feb 2024	High Tide (ft)	5.93
S12	07 Feb 2024	High Tide Time	634
S12	07 Feb 2024	Low Tide (ft)	2.17
S12	07 Feb 2024	Low Tide Time	22
S12	07 Feb 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S12	13 Feb 2024	Arrive Time	1003
S12	13 Feb 2024	Weather	Sunny
S12	13 Feb 2024	Wind Speed (kts)	2.5
S12	13 Feb 2024	Wind Dir	NE
S12	13 Feb 2024	Animal Life	
S12	13 Feb 2024	Floatables	None
S12	13 Feb 2024	Water Color	Green
S12	13 Feb 2024	Current Direction	S
S12	13 Feb 2024	Water Temp (C)	10.3
S12	13 Feb 2024	Wave Height (ft)	4
S12	13 Feb 2024	High Tide (ft)	4.57
S12	13 Feb 2024	High Tide Time	1112
S12	13 Feb 2024	Low Tide (ft)	0.64
S12	13 Feb 2024	Low Tide Time	522
S12	13 Feb 2024	Comments	Water clear; Trash-2; Debris; Person/Walker/Jogger-2
S12	20 Feb 2024	Arrive Time	1044
S12	20 Feb 2024	Weather	Cloudy
S12	20 Feb 2024	Wind Speed (kts)	7.1
S12	20 Feb 2024	Wind Dir	SW
S12	20 Feb 2024	Animal Life	Dog-2;
S12	20 Feb 2024	Floatables	None
S12	20 Feb 2024	Water Color	Green
S12	20 Feb 2024	Current Direction	S
S12	20 Feb 2024	Water Temp (C)	12.4
S12	20 Feb 2024	Wave Height (ft)	5
S12	20 Feb 2024	High Tide (ft)	5.16
S12	20 Feb 2024	High Tide Time	619
S12	20 Feb 2024	Low Tide (ft)	2.26
S12	20 Feb 2024	Low Tide Time	24

Station	Date	Parameter	Value
S12	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-2
S12	27 Feb 2024	Arrive Time	1113
S12	27 Feb 2024	Weather	Sunny
S12	27 Feb 2024	Wind Speed (kts)	3.8
S12	27 Feb 2024	Wind Dir	W
S12	27 Feb 2024	Animal Life	Dog-13;
S12	27 Feb 2024	Floatables	Foam
S12	27 Feb 2024	Water Color	Green
S12	27 Feb 2024	Current Direction	S
S12	27 Feb 2024	Water Temp (C)	16.7
S12	27 Feb 2024	Wave Height (ft)	3
S12	27 Feb 2024	High Tide (ft)	4.29
S12	27 Feb 2024	High Tide Time	1006
S12	27 Feb 2024	Low Tide (ft)	0.9
S12	27 Feb 2024	Low Tide Time	419
S12	27 Feb 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris; Person/Walker/Jogger-3
S4	09 Feb 2024	Arrive Time	1100
S4	09 Feb 2024	Weather	Moderate rain
S4	09 Feb 2024	Wind Speed (kts)	0
S4	09 Feb 2024	Wind Dir	XX
S4	09 Feb 2024	Animal Life	
S4	09 Feb 2024	Floatables	None
S4	09 Feb 2024	Water Color	Green
S4	09 Feb 2024	Current Direction	S
S4	09 Feb 2024	Water Temp (C)	17
S4	09 Feb 2024	Wave Height (ft)	5
S4	09 Feb 2024	High Tide (ft)	6.55
S4	09 Feb 2024	High Tide Time	805
S4	09 Feb 2024	Low Tide (ft)	1.36
S4	09 Feb 2024	Low Tide Time	200
S4	09 Feb 2024	Comments	Inaccessible on 2/8; Water clear; Trash-4; Kelp; Seagrass; Debris
S4	13 Feb 2024	Arrive Time	826
S4	13 Feb 2024	Weather	Partly cloudy
S4	13 Feb 2024	Wind Speed (kts)	2.7
S4	13 Feb 2024	Wind Dir	SE
S4	13 Feb 2024	Animal Life	
S4	13 Feb 2024	Floatables	None
S4	13 Feb 2024	Water Color	Green
S4	13 Feb 2024	Current Direction	S
S4	13 Feb 2024	Water Temp (C)	10.5
S4	13 Feb 2024	Wave Height (ft)	5
S4	13 Feb 2024	High Tide (ft)	4.57
S4	13 Feb 2024	High Tide Time	1112
S4	13 Feb 2024	Low Tide (ft)	0.64
S4	13 Feb 2024	Low Tide Time	522
S4	13 Feb 2024	Comments	Water clear; Trash-3; Debris;Kelp
S4	20 Feb 2024	Arrive Time	844
S4	20 Feb 2024	Weather	Cloudy
S4	20 Feb 2024	Wind Speed (kts)	7.5
S4	20 Feb 2024	Wind Dir	SW
S4	20 Feb 2024	Animal Life	
S4	20 Feb 2024	Floatables	Foam
S4	20 Feb 2024	Water Color	Green
S4	20 Feb 2024	Current Direction	S

Station	Date	Parameter	Value
S4	20 Feb 2024	Water Temp (C)	13.1
S4	20 Feb 2024	Wave Height (ft)	7
S4	20 Feb 2024	High Tide (ft)	5.16
S4	20 Feb 2024	High Tide Time	619
S4	20 Feb 2024	Low Tide (ft)	2.26
S4	20 Feb 2024	Low Tide Time	24
S4	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S4	28 Feb 2024	Arrive Time	818
S4	28 Feb 2024	Weather	Cloudy
S4	28 Feb 2024	Wind Speed (kts)	2.1
S4	28 Feb 2024	Wind Dir	E
S4	28 Feb 2024	Animal Life	
S4	28 Feb 2024	Floatables	None
S4	28 Feb 2024	Water Color	Green
S4	28 Feb 2024	Current Direction	S
S4	28 Feb 2024	Water Temp (C)	12.8
S4	28 Feb 2024	Wave Height (ft)	4.5
S4	28 Feb 2024	High Tide (ft)	3.74
S4	28 Feb 2024	High Tide Time	1039
S4	28 Feb 2024	Low Tide (ft)	0.94
S4	28 Feb 2024	Low Tide Time	457
S4	28 Feb 2024	Comments	Inaccessible on 2/27; Water clear; Trash-3; Kelp;Sea-grass;Debris
S5	07 Feb 2024	Arrive Time	928
S5	07 Feb 2024	Weather	Drizzle
S5	07 Feb 2024	Wind Speed (kts)	12
S5	07 Feb 2024	Wind Dir	SW
S5	07 Feb 2024	Animal Life	
S5	07 Feb 2024	Floatables	Foam
S5	07 Feb 2024	Water Color	Brown
S5	07 Feb 2024	Current Direction	S
S5	07 Feb 2024	Water Temp (C)	9
S5	07 Feb 2024	Wave Height (ft)	6
S5	07 Feb 2024	High Tide (ft)	5.93
S5	07 Feb 2024	High Tide Time	634
S5	07 Feb 2024	Low Tide (ft)	2.17
S5	07 Feb 2024	Low Tide Time	22
S5	07 Feb 2024	Comments	Water turbid; Trash-5; Kelp;Seagrass;Debris; Water is extremely brown; Sewage-like odor
S5	13 Feb 2024	Arrive Time	925
S5	13 Feb 2024	Weather	Sunny
S5	13 Feb 2024	Wind Speed (kts)	2.7
S5	13 Feb 2024	Wind Dir	SE
S5	13 Feb 2024	Animal Life	
S5	13 Feb 2024	Floatables	None
S5	13 Feb 2024	Water Color	Green
S5	13 Feb 2024	Current Direction	S
S5	13 Feb 2024	Water Temp (C)	11.9
S5	13 Feb 2024	Wave Height (ft)	3
S5	13 Feb 2024	High Tide (ft)	4.57
S5	13 Feb 2024	High Tide Time	1112
S5	13 Feb 2024	Low Tide (ft)	0.64
S5	13 Feb 2024	Low Tide Time	522
S5	13 Feb 2024	Comments	Water clear; Trash-3
S5	20 Feb 2024	Arrive Time	959
S5	20 Feb 2024	Weather	Cloudy
S5	20 Feb 2024	Wind Speed (kts)	12.5

Station	Date	Parameter	Value
S5	20 Feb 2024	Wind Dir	SW
S5	20 Feb 2024	Animal Life	Bird-2;
S5	20 Feb 2024	Floatables	None
S5	20 Feb 2024	Water Color	Green
S5	20 Feb 2024	Current Direction	S
S5	20 Feb 2024	Water Temp (C)	13
S5	20 Feb 2024	Wave Height (ft)	7
S5	20 Feb 2024	High Tide (ft)	5.16
S5	20 Feb 2024	High Tide Time	619
S5	20 Feb 2024	Low Tide (ft)	2.26
S5	20 Feb 2024	Low Tide Time	24
S5	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass; Sewage-like odor
S5	27 Feb 2024	Arrive Time	1018
S5	27 Feb 2024	Weather	Partly cloudy
S5	27 Feb 2024	Wind Speed (kts)	3.6
S5	27 Feb 2024	Wind Dir	W
S5	27 Feb 2024	Animal Life	
S5	27 Feb 2024	Floatables	Foam
S5	27 Feb 2024	Water Color	Green
S5	27 Feb 2024	Current Direction	S
S5	27 Feb 2024	Water Temp (C)	12.1
S5	27 Feb 2024	Wave Height (ft)	3
S5	27 Feb 2024	High Tide (ft)	4.29
S5	27 Feb 2024	High Tide Time	1006
S5	27 Feb 2024	Low Tide (ft)	0.9
S5	27 Feb 2024	Low Tide Time	419
S5	27 Feb 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S6	07 Feb 2024	Arrive Time	1001
S6	07 Feb 2024	Weather	Overcast
S6	07 Feb 2024	Wind Speed (kts)	1.555
S6	07 Feb 2024	Wind Dir	W
S6	07 Feb 2024	Animal Life	
S6	07 Feb 2024	Floatables	Foam
S6	07 Feb 2024	Water Color	Green
S6	07 Feb 2024	Current Direction	S
S6	07 Feb 2024	Water Temp (C)	13
S6	07 Feb 2024	Wave Height (ft)	5
S6	07 Feb 2024	High Tide (ft)	5.93
S6	07 Feb 2024	High Tide Time	634
S6	07 Feb 2024	Low Tide (ft)	2.17
S6	07 Feb 2024	Low Tide Time	22
S6	07 Feb 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Algae;Debris
S6	13 Feb 2024	Arrive Time	951
S6	13 Feb 2024	Weather	Partly cloudy
S6	13 Feb 2024	Wind Speed (kts)	3.3
S6	13 Feb 2024	Wind Dir	N
S6	13 Feb 2024	Animal Life	
S6	13 Feb 2024	Floatables	None
S6	13 Feb 2024	Water Color	Green
S6	13 Feb 2024	Current Direction	S
S6	13 Feb 2024	Water Temp (C)	11.1
S6	13 Feb 2024	Wave Height (ft)	5
S6	13 Feb 2024	High Tide (ft)	4.57
S6	13 Feb 2024	High Tide Time	1112
S6	13 Feb 2024	Low Tide (ft)	0.64
S6	13 Feb 2024	Low Tide Time	522
S6	13 Feb 2024	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1

Station	Date	Parameter	Value
S6	20 Feb 2024	Arrive Time	1032
S6	20 Feb 2024	Weather	Cloudy
S6	20 Feb 2024	Wind Speed (kts)	4.5
S6	20 Feb 2024	Wind Dir	SW
S6	20 Feb 2024	Animal Life	
S6	20 Feb 2024	Floatables	None
S6	20 Feb 2024	Water Color	Green
S6	20 Feb 2024	Current Direction	S
S6	20 Feb 2024	Water Temp (C)	12.7
S6	20 Feb 2024	Wave Height (ft)	4
S6	20 Feb 2024	High Tide (ft)	5.16
S6	20 Feb 2024	High Tide Time	619
S6	20 Feb 2024	Low Tide (ft)	2.26
S6	20 Feb 2024	Low Tide Time	24
S6	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae
S6	27 Feb 2024	Arrive Time	1054
S6	27 Feb 2024	Weather	Partly cloudy
S6	27 Feb 2024	Wind Speed (kts)	4.6
S6	27 Feb 2024	Wind Dir	W
S6	27 Feb 2024	Animal Life	
S6	27 Feb 2024	Floatables	Foam
S6	27 Feb 2024	Water Color	Green
S6	27 Feb 2024	Current Direction	S
S6	27 Feb 2024	Water Temp (C)	15.3
S6	27 Feb 2024	Wave Height (ft)	4
S6	27 Feb 2024	High Tide (ft)	4.29
S6	27 Feb 2024	High Tide Time	1006
S6	27 Feb 2024	Low Tide (ft)	0.9
S6	27 Feb 2024	Low Tide Time	419
S6	27 Feb 2024	Comments	Water clear; Trash-3; Kelp;Seagrass;Algae;Debris
S8	07 Feb 2024	Arrive Time	1042
S8	07 Feb 2024	Weather	Partly cloudy
S8	07 Feb 2024	Wind Speed (kts)	1.9
S8	07 Feb 2024	Wind Dir	W
S8	07 Feb 2024	Animal Life	
S8	07 Feb 2024	Floatables	Foam
S8	07 Feb 2024	Water Color	Green
S8	07 Feb 2024	Current Direction	S
S8	07 Feb 2024	Water Temp (C)	14
S8	07 Feb 2024	Wave Height (ft)	5
S8	07 Feb 2024	High Tide (ft)	5.93
S8	07 Feb 2024	High Tide Time	634
S8	07 Feb 2024	Low Tide (ft)	2.17
S8	07 Feb 2024	Low Tide Time	22
S8	07 Feb 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S8	13 Feb 2024	Arrive Time	1018
S8	13 Feb 2024	Weather	Sunny
S8	13 Feb 2024	Wind Speed (kts)	1.5
S8	13 Feb 2024	Wind Dir	S
S8	13 Feb 2024	Animal Life	
S8	13 Feb 2024	Floatables	None
S8	13 Feb 2024	Water Color	Green
S8	13 Feb 2024	Current Direction	S
S8	13 Feb 2024	Water Temp (C)	10.1
S8	13 Feb 2024	Wave Height (ft)	5
S8	13 Feb 2024	High Tide (ft)	4.57
S8	13 Feb 2024	High Tide Time	1112
S8	13 Feb 2024	Low Tide (ft)	0.64

Station	Date	Parameter	Value
S8	13 Feb 2024	Low Tide Time	522
S8	13 Feb 2024	Comments	Water clear; Trash-2; Debris;Seagrass;Kelp
S8	20 Feb 2024	Arrive Time	1101
S8	20 Feb 2024	Weather	Cloudy
S8	20 Feb 2024	Wind Speed (kts)	10.3
S8	20 Feb 2024	Wind Dir	SW
S8	20 Feb 2024	Animal Life	
S8	20 Feb 2024	Floatables	None
S8	20 Feb 2024	Water Color	Green
S8	20 Feb 2024	Current Direction	S
S8	20 Feb 2024	Water Temp (C)	14
S8	20 Feb 2024	Wave Height (ft)	4
S8	20 Feb 2024	High Tide (ft)	5.16
S8	20 Feb 2024	High Tide Time	619
S8	20 Feb 2024	Low Tide (ft)	2.26
S8	20 Feb 2024	Low Tide Time	24
S8	20 Feb 2024	Comments	Water clear; Trash-1; Seagrass;Kelp
S8	27 Feb 2024	Arrive Time	1129
S8	27 Feb 2024	Weather	Sunny
S8	27 Feb 2024	Wind Speed (kts)	4.6
S8	27 Feb 2024	Wind Dir	W
S8	27 Feb 2024	Animal Life	Bird-10;
S8	27 Feb 2024	Floatables	Foam
S8	27 Feb 2024	Water Color	Green
S8	27 Feb 2024	Current Direction	S
S8	27 Feb 2024	Water Temp (C)	13.9
S8	27 Feb 2024	Wave Height (ft)	3
S8	27 Feb 2024	High Tide (ft)	4.29
S8	27 Feb 2024	High Tide Time	1006
S8	27 Feb 2024	Low Tide (ft)	0.9
S8	27 Feb 2024	Low Tide Time	419
S8	27 Feb 2024	Comments	Water clear; Trash-4; Kelp;Seagrass;Debris
S9	07 Feb 2024	Arrive Time	1102
S9	07 Feb 2024	Weather	Partly cloudy
S9	07 Feb 2024	Wind Speed (kts)	3.3
S9	07 Feb 2024	Wind Dir	W
S9	07 Feb 2024	Animal Life	Bird-10;
S9	07 Feb 2024	Floatables	None
S9	07 Feb 2024	Water Color	Green
S9	07 Feb 2024	Current Direction	S
S9	07 Feb 2024	Water Temp (C)	16
S9	07 Feb 2024	Wave Height (ft)	6
S9	07 Feb 2024	High Tide (ft)	5.93
S9	07 Feb 2024	High Tide Time	634
S9	07 Feb 2024	Low Tide (ft)	2.17
S9	07 Feb 2024	Low Tide Time	22
S9	07 Feb 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris
S9	13 Feb 2024	Arrive Time	1035
S9	13 Feb 2024	Weather	Sunny
S9	13 Feb 2024	Wind Speed (kts)	3.9
S9	13 Feb 2024	Wind Dir	W
S9	13 Feb 2024	Animal Life	
S9	13 Feb 2024	Floatables	None
S9	13 Feb 2024	Water Color	Green
S9	13 Feb 2024	Current Direction	S
S9	13 Feb 2024	Water Temp (C)	12.3
S9	13 Feb 2024	Wave Height (ft)	5

Station	Date	Parameter	Value
S9	13 Feb 2024	High Tide (ft)	4.57
S9	13 Feb 2024	High Tide Time	1112
S9	13 Feb 2024	Low Tide (ft)	0.64
S9	13 Feb 2024	Low Tide Time	522
S9	13 Feb 2024	Comments	Water clear; Trash-1; Debris;Algae; Person/Walker/Jogger-1
S9	20 Feb 2024	Arrive Time	1118
S9	20 Feb 2024	Weather	Cloudy
S9	20 Feb 2024	Wind Speed (kts)	7.1
S9	20 Feb 2024	Wind Dir	SW
S9	20 Feb 2024	Animal Life	
S9	20 Feb 2024	Floatables	None
S9	20 Feb 2024	Water Color	Green
S9	20 Feb 2024	Current Direction	S
S9	20 Feb 2024	Water Temp (C)	12.9
S9	20 Feb 2024	Wave Height (ft)	3
S9	20 Feb 2024	High Tide (ft)	5.16
S9	20 Feb 2024	High Tide Time	619
S9	20 Feb 2024	Low Tide (ft)	2.26
S9	20 Feb 2024	Low Tide Time	24
S9	20 Feb 2024	Comments	Water clear; Trash-1; Kelp;Seagrass
S9	27 Feb 2024	Arrive Time	1147
S9	27 Feb 2024	Weather	Sunny
S9	27 Feb 2024	Wind Speed (kts)	3.4
S9	27 Feb 2024	Wind Dir	W
S9	27 Feb 2024	Animal Life	
S9	27 Feb 2024	Floatables	Foam
S9	27 Feb 2024	Water Color	Green
S9	27 Feb 2024	Current Direction	S
S9	27 Feb 2024	Water Temp (C)	14.7
S9	27 Feb 2024	Wave Height (ft)	2
S9	27 Feb 2024	High Tide (ft)	4.29
S9	27 Feb 2024	High Tide Time	1006
S9	27 Feb 2024	Low Tide (ft)	0.9
S9	27 Feb 2024	Low Tide Time	419
S9	27 Feb 2024	Comments	Water clear; Trash-2; Kelp;Seagrass;Algae;Debris

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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 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
02 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
03 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
04 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
05 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
06 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
07 Feb 2024	*1126	481	*342	*84	*45	*28	*2921
08 Feb 2024	*1179	*1093	*1896	*267	*127	*69	*2805
09 Feb 2024	*1777	1457	*1838	*316	*268	*54	*3190
10 Feb 2024	*1777	1457	*1838	*316	*268	*54	*3190
11 Feb 2024	*1777	1457	*1838	*316	*268	*54	*3190
12 Feb 2024	1256	940	497	115	147	30	2550
13 Feb 2024	1256	940	497	115	147	30	2550
14 Feb 2024	1256	940	497	115	147	30	2550
15 Feb 2024	1256	940	497	115	147	30	2550
16 Feb 2024	*1085	645	*377	*316	*431	*59	*2639
17 Feb 2024	*1085	*1178	*377	*316	*431	*59	*2639
18 Feb 2024	*1085	*1178	*377	*316	*431	*59	*2639
19 Feb 2024	*1085	*1178	*377	*316	*431	*59	*2639
20 Feb 2024	*1085	*1178	*377	*316	*431	*59	*2639
21 Feb 2024	1265	364	152	171	174	36	3250
22 Feb 2024	1265	364	152	171	174	36	3250
23 Feb 2024	*1187	*217	*76	*86	*92	*20	*3036
24 Feb 2024	*1187	*217	*76	*86	*92	*20	*3036
25 Feb 2024	*1187	*217	*76	*86	*92	*20	*3036
26 Feb 2024	*1187	*217	*76	*86	*92	*20	*3036
27 Feb 2024	1011	377	146	178	82	13	2648
28 Feb 2024	1011	377	146	178	82	13	2648
29 Feb 2024	*1241	*272	*77	*84	*53	*5	*2734

* 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
09 Feb 2024	E	E	E	E	E	IC	E
12 Feb 2024	E	IC	IC	IC	IC	IC	E
21 Feb 2024	E	IC	IC	IC	IC	IC	E
27 Feb 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 Feb 2024	310	187	59	32	19	17	432
02 Feb 2024	310	187	59	32	19	17	432
03 Feb 2024	310	187	59	32	19	17	432
04 Feb 2024	310	187	59	32	19	17	432
05 Feb 2024	310	187	59	32	19	17	432
06 Feb 2024	392	194	109	56	30	26	1069
07 Feb 2024	392	194	109	56	30	26	1069
08 Feb 2024	392	194	109	56	30	26	1069
09 Feb 2024	560	280	173	96	75	28	1186
10 Feb 2024	560	280	173	96	75	28	1186
11 Feb 2024	560	280	173	96	75	28	1186
12 Feb 2024	538	278	136	66	83	19	1129
13 Feb 2024	560	290	144	63	130	14	1287
14 Feb 2024	560	290	144	63	130	14	1287
15 Feb 2024	560	290	144	63	130	14	1287
16 Feb 2024	560	290	144	63	130	14	1287
17 Feb 2024	560	290	144	63	130	14	1287
18 Feb 2024	560	290	144	63	130	14	1287
19 Feb 2024	560	290	144	63	130	14	1287
20 Feb 2024	578	492	338	127	284	21	1183
21 Feb 2024	613	253	156	92	195	21	1492
22 Feb 2024	613	253	156	92	195	21	1492
23 Feb 2024	613	253	156	92	195	21	1492
24 Feb 2024	613	253	156	92	195	21	1492
25 Feb 2024	613	253	156	92	195	21	1492
26 Feb 2024	613	253	156	92	195	21	1492
27 Feb 2024	533	289	187	121	119	15	1179
28 Feb 2024	577	205	185	239	234	21	1203
29 Feb 2024	577	294	185	239	234	21	1203

* 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
February	E	E	E	E	E	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	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	9m
01 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
02 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
03 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
04 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
05 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
06 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
07 Feb 2024	*8400	*6300	*6200	*15500	*1880	*780	*12200	*720	*990	*3610	*7501	*8020	*2202	*2010	*2614	*91	*431	*521	*16000	*4000	*2500
08 Feb 2024	*6800	*4600	*4400	*16000	*3000	*1200	*16000	*840	*1500	*7200	*15000	*16000	*4400	*4000	*5200	*180	*860	*1000	*16000	*1200	*3000
09 Feb 2024	*11400	*6300	*4400	*16000	*8500	*4900	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*521	*16000	*8600	*2400
10 Feb 2024	*11400	*6300	*4400	*16000	*8500	*4900	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*521	*16000	*8600	*2400
11 Feb 2024	*11400	*6300	*4400	*16000	*8500	*4900	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*521	*16000	*8600	*2400
12 Feb 2024	7200	4600	4400	16000	3000	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	42	16000	6600	3000
13 Feb 2024	7200	4600	4400	16000	3000	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	42	16000	6600	3000
14 Feb 2024	7200	4600	4400	16000	3000	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	42	16000	6600	3000
15 Feb 2024	7200	4600	4400	16000	3000	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	42	16000	6600	3000
16 Feb 2024	*11600	*6300	*4400	*15500	*7380	6800	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*516	*16000	*11300	*7500
17 Feb 2024	*11600	*6300	*4400	*15500	*7380	*7700	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*516	*16000	*11300	*7500
18 Feb 2024	*11600	*6300	*4400	*15500	*7380	*7700	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*516	*16000	*11300	*7500
19 Feb 2024	*11600	*6300	*4400	*15500	*7380	*7700	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*516	*16000	*11300	*7500
20 Feb 2024	*11600	*6300	*4400	*15500	*7380	*7700	*16000	*2120	*2450	*7600	*10300	*11300	*5700	*7500	*10600	*340	*440	*516	*16000	*11300	*7500
21 Feb 2024	16000	8000	4400	15000	760	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	60	16000	12000	5600
22 Feb 2024	16000	8000	4400	15000	760	6800	16000	840	1500	7200	5600	6600	4400	4000	5200	180	20	60	16000	12000	5600
23 Feb 2024	*11600	*6300	*6200	*7515	*510	*4000	*8003	*450	*766	*3601	*2830	*3330	*2207	*2090	*2730	*91	*14	*46	*16000	*9300	*4300
24 Feb 2024	*11600	*6300	*6200	*7515	*510	*4000	*8003	*450	*766	*3601	*2830	*3330	*2207	*2090	*2730	*91	*14	*46	*16000	*9300	*4300
25 Feb 2024	*11600	*6300	*6200	*7515	*510	*4000	*8003	*450	*766	*3601	*2830	*3330	*2207	*2090	*2730	*91	*14	*46	*16000	*9300	*4300
26 Feb 2024	*11600	*6300	*6200	*7515	*510	*4000	*8003	*450	*766	*3601	*2830	*3330	*2207	*2090	*2730	*91	*14	*46	*16000	*9300	*4300
27 Feb 2024	7200	8000	4400	15000	760	6800	14000	840	1500	7200	1300	6600	340	180	260	2	8	32	16000	9600	3400
28 Feb 2024	7200	8000	4400	15000	760	6800	14000	840	1500	7200	1300	6600	340	180	260	2	8	32	16000	9600	3400
29 Feb 2024	*11600	*8100	*3200	*8015	*1230	*7700	*7003	*780	*1716	*4001	*680	*3330	*177	*100	*230	*2	*6	*26	*11600	*10800	*4500

* 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
February	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	IC	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
119	09 Feb 2024	1051	2	>16000	>12000	5400
119	09 Feb 2024	1051	6	>16000	5800	4200
119	09 Feb 2024	1051	11	4400	420	360e
119	12 Feb 2024	1052	2	7200	760	220e
119	12 Feb 2024	1052	6	1400e	60e	260e
119	12 Feb 2024	1052	11	2000e	120e	800
119	21 Feb 2024	1017	2	>16000	4200	980
119	21 Feb 2024	1017	6	>=8000	800e	620
119	21 Feb 2024	1017	11	12000	2000e	860
119	27 Feb 2024	1047	2	1200e	720	100e
119	27 Feb 2024	1047	6	8200	400e	480
119	27 Feb 2024	1047	11	1400e	480	110
124	09 Feb 2024	1112	2	>16000	>12000	5600
124	09 Feb 2024	1112	6	>16000	1000	1200e
124	09 Feb 2024	1112	11	8600	800	860
124	12 Feb 2024	1113	2	30e	4e	22e
124	12 Feb 2024	1113	6	260e	10e	120
124	12 Feb 2024	1113	11	6800	300e	640e
124	21 Feb 2024	1036	2	18e	2e	2e
124	21 Feb 2024	1036	6	58	4e	8e
124	21 Feb 2024	1036	11	58	4e	4e
124	27 Feb 2024	1106	2	16000	5600	960
124	27 Feb 2024	1106	6	2200e	360e	110
124	27 Feb 2024	1106	11	>16000	4200	1100
125	09 Feb 2024	1117	2	>16000	4000	4200
125	09 Feb 2024	1117	6	3400e	540	420
125	09 Feb 2024	1117	9	3400e	480e	700
125	12 Feb 2024	1123	2	6e	<2	8e
125	12 Feb 2024	1123	6	60e	<2	50
125	12 Feb 2024	1123	9	20e	4e	36e
125	21 Feb 2024	1044	2	2e	<2	<2
125	21 Feb 2024	1044	6	26e	2e	2e
125	21 Feb 2024	1044	9	32e	8e	6e
125	27 Feb 2024	1112	2	14000	3000e	600
125	27 Feb 2024	1112	6	1500	340e	68
125	27 Feb 2024	1112	9	13000	2600e	960
126	09 Feb 2024	1126	2	8000	520	2600e
126	09 Feb 2024	1126	6	5600	440	840
126	09 Feb 2024	1126	9	6600	600	640

Station	Date	Time	Depth	Total	Fecal	Entero
I26	12 Feb 2024	1135	2	<2	2e	2e
I26	12 Feb 2024	1135	6	8e	<2	4e
I26	12 Feb 2024	1135	9	44	<2	16e
I26	21 Feb 2024	1054	2	2e	2e	<2
I26	21 Feb 2024	1054	6	60e	2e	8e
I26	21 Feb 2024	1054	9	60e	40e	46
I26	27 Feb 2024	1122	2	>16000	3800e	880
I26	27 Feb 2024	1122	6	1300	500	140e
I26	27 Feb 2024	1122	9	>16000	5400	800
I32	09 Feb 2024	1137	2	7000	540	1100
I32	09 Feb 2024	1137	6	>16000	2800e	>12000
I32	09 Feb 2024	1137	9	>16000	4200	8000
I32	12 Feb 2024	1150	2	14e	<2	8e
I32	12 Feb 2024	1150	6	180e	4e	100
I32	12 Feb 2024	1150	9	260e	34e	320e
I32	21 Feb 2024	1108	2	2e	<2	2e
I32	21 Feb 2024	1108	6	<20	<2	<2
I32	21 Feb 2024	1108	9	200e	10e	86
I32	27 Feb 2024	1135	2	340e	140e	14e
I32	27 Feb 2024	1135	6	12e	8e	<2
I32	27 Feb 2024	1135	9	22e	4e	<2
I39	09 Feb 2024	1028	2	500	76	120
I39	09 Feb 2024	1028	12	<20	<2	<2
I39	09 Feb 2024	1028	18	<20	4e	4e
I39	12 Feb 2024	1030	2	2e	<2	<2
I39	12 Feb 2024	1030	12	8e	<2	<2
I39	12 Feb 2024	1030	18	32e	4e	2e
I39	21 Feb 2024	955	2	<2	<2	<2
I39	21 Feb 2024	955	12	4e	4e	2e
I39	21 Feb 2024	955	18	60e	10e	70
I39	27 Feb 2024	1023	2	<2	<2	<2
I39	27 Feb 2024	1023	12	4e	2e	<2
I39	27 Feb 2024	1023	18	<2	<2	<2
I40	09 Feb 2024	1103	2	>16000	2000e	3000e
I40	09 Feb 2024	1103	6	>16000	12000	2800e
I40	09 Feb 2024	1103	9	1400e	80e	180e
I40	12 Feb 2024	1104	2	7200	1100	1000e
I40	12 Feb 2024	1104	6	6600	620	680
I40	12 Feb 2024	1104	9	12000	1400e	840
I40	21 Feb 2024	1032	2	>16000	>12000	>12000
I40	21 Feb 2024	1032	6	>=12000	8600	2000e
I40	21 Feb 2024	1032	9	5600	1800e	280e
I40	27 Feb 2024	1058	2	5200	1400e	260e
I40	27 Feb 2024	1058	6	9600	2200e	400
I40	27 Feb 2024	1058	9	3400e	1000	200e

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	09 Feb 2024	Depth (m)	12
I19	09 Feb 2024	Arrive Time	1051
I19	09 Feb 2024	Depart Time	1055
I19	09 Feb 2024	Air Temp (C)	11.4
I19	09 Feb 2024	Weather	Rain
I19	09 Feb 2024	Visibility (mi)	5
I19	09 Feb 2024	Wind Speed (kts)	1.9
I19	09 Feb 2024	Wind Dir	N
I19	09 Feb 2024	Water Color	Brown
I19	09 Feb 2024	Wave Height Low (ft)	4
I19	09 Feb 2024	Wave Period (sec)	11
I19	09 Feb 2024	Sea State	Confused Swell
I19	09 Feb 2024	High Tide (ft)	6.68
I19	09 Feb 2024	High Tide Time	806
I19	09 Feb 2024	Low Tide (ft)	-1.75
I19	09 Feb 2024	Low Tide Time	1506
I19	09 Feb 2024	Comments	
I19	12 Feb 2024	Depth (m)	12
I19	12 Feb 2024	Arrive Time	1052
I19	12 Feb 2024	Depart Time	1056
I19	12 Feb 2024	Air Temp (C)	13.8
I19	12 Feb 2024	Weather	Clear
I19	12 Feb 2024	Visibility (mi)	10
I19	12 Feb 2024	Wind Speed (kts)	8.6
I19	12 Feb 2024	Wind Dir	NW
I19	12 Feb 2024	Water Color	Green
I19	12 Feb 2024	Wave Height Low (ft)	3
I19	12 Feb 2024	Wave Period (sec)	18
I19	12 Feb 2024	Sea State	Calm
I19	12 Feb 2024	High Tide (ft)	5.5
I19	12 Feb 2024	High Tide Time	1024
I19	12 Feb 2024	Low Tide (ft)	-0.56
I19	12 Feb 2024	Low Tide Time	1648
I19	12 Feb 2024	Comments	
I19	21 Feb 2024	Depth (m)	11
I19	21 Feb 2024	Arrive Time	1017
I19	21 Feb 2024	Depart Time	1020
I19	21 Feb 2024	Air Temp (C)	14.9
I19	21 Feb 2024	Weather	Partly Cloudy
I19	21 Feb 2024	Visibility (mi)	10
I19	21 Feb 2024	Wind Speed (kts)	5.2
I19	21 Feb 2024	Wind Dir	S
I19	21 Feb 2024	Water Color	Green
I19	21 Feb 2024	Wave Height Low (ft)	9
I19	21 Feb 2024	Wave Period (sec)	15
I19	21 Feb 2024	Sea State	Light Chop
I19	21 Feb 2024	High Tide (ft)	5.42
I19	21 Feb 2024	High Tide Time	700
I19	21 Feb 2024	Low Tide (ft)	-0.83
I19	21 Feb 2024	Low Tide Time	1406
I19	21 Feb 2024	Comments	
I19	27 Feb 2024	Depth (m)	11
I19	27 Feb 2024	Arrive Time	1047

Station	Date	Parameter	Value
I19	27 Feb 2024	Depart Time	1050
I19	27 Feb 2024	Air Temp (C)	15.6
I19	27 Feb 2024	Weather	Partly Cloudy
I19	27 Feb 2024	Visibility (mi)	7
I19	27 Feb 2024	Wind Speed (kts)	4.2
I19	27 Feb 2024	Wind Dir	SW
I19	27 Feb 2024	Water Color	Green
I19	27 Feb 2024	Wave Height Low (ft)	3
I19	27 Feb 2024	Wave Period (sec)	15
I19	27 Feb 2024	Sea State	Calm
I19	27 Feb 2024	High Tide (ft)	4.44
I19	27 Feb 2024	High Tide Time	2236
I19	27 Feb 2024	Low Tide (ft)	0.53
I19	27 Feb 2024	Low Tide Time	1612
I19	27 Feb 2024	Comments	
I24	09 Feb 2024	Depth (m)	12
I24	09 Feb 2024	Arrive Time	1112
I24	09 Feb 2024	Depart Time	1117
I24	09 Feb 2024	Air Temp (C)	11.6
I24	09 Feb 2024	Weather	Rain
I24	09 Feb 2024	Visibility (mi)	5
I24	09 Feb 2024	Wind Speed (kts)	2.4
I24	09 Feb 2024	Wind Dir	E
I24	09 Feb 2024	Water Color	Brown
I24	09 Feb 2024	Wave Height Low (ft)	4
I24	09 Feb 2024	Wave Period (sec)	11
I24	09 Feb 2024	Sea State	Confused Swell
I24	09 Feb 2024	High Tide (ft)	6.68
I24	09 Feb 2024	High Tide Time	806
I24	09 Feb 2024	Low Tide (ft)	-1.75
I24	09 Feb 2024	Low Tide Time	1506
I24	09 Feb 2024	Comments	
I24	12 Feb 2024	Depth (m)	12
I24	12 Feb 2024	Arrive Time	1113
I24	12 Feb 2024	Depart Time	1119
I24	12 Feb 2024	Air Temp (C)	13.8
I24	12 Feb 2024	Weather	Clear
I24	12 Feb 2024	Visibility (mi)	10
I24	12 Feb 2024	Wind Speed (kts)	7.9
I24	12 Feb 2024	Wind Dir	NW
I24	12 Feb 2024	Water Color	Green
I24	12 Feb 2024	Wave Height Low (ft)	3
I24	12 Feb 2024	Wave Period (sec)	18
I24	12 Feb 2024	Sea State	Calm
I24	12 Feb 2024	High Tide (ft)	5.5
I24	12 Feb 2024	High Tide Time	1024
I24	12 Feb 2024	Low Tide (ft)	-0.56
I24	12 Feb 2024	Low Tide Time	1648
I24	12 Feb 2024	Comments	
I24	21 Feb 2024	Depth (m)	10
I24	21 Feb 2024	Arrive Time	1036
I24	21 Feb 2024	Depart Time	1040
I24	21 Feb 2024	Air Temp (C)	15.0
I24	21 Feb 2024	Weather	Partly Cloudy
I24	21 Feb 2024	Visibility (mi)	10
I24	21 Feb 2024	Wind Speed (kts)	3.7
I24	21 Feb 2024	Wind Dir	W
I24	21 Feb 2024	Water Color	Green

Station	Date	Parameter	Value
I24	21 Feb 2024	Wave Height Low (ft)	9
I24	21 Feb 2024	Wave Period (sec)	15
I24	21 Feb 2024	Sea State	Light Chop
I24	21 Feb 2024	High Tide (ft)	5.42
I24	21 Feb 2024	High Tide Time	700
I24	21 Feb 2024	Low Tide (ft)	-0.83
I24	21 Feb 2024	Low Tide Time	1406
I24	21 Feb 2024	Comments	
I24	27 Feb 2024	Depth (m)	10
I24	27 Feb 2024	Arrive Time	1106
I24	27 Feb 2024	Depart Time	1110
I24	27 Feb 2024	Air Temp (C)	15.4
I24	27 Feb 2024	Weather	Partly Cloudy
I24	27 Feb 2024	Visibility (mi)	7
I24	27 Feb 2024	Wind Speed (kts)	9.3
I24	27 Feb 2024	Wind Dir	W
I24	27 Feb 2024	Water Color	Brownish-Green
I24	27 Feb 2024	Wave Height Low (ft)	3
I24	27 Feb 2024	Wave Period (sec)	15
I24	27 Feb 2024	Sea State	Calm
I24	27 Feb 2024	High Tide (ft)	4.44
I24	27 Feb 2024	High Tide Time	2236
I24	27 Feb 2024	Low Tide (ft)	0.53
I24	27 Feb 2024	Low Tide Time	1612
I24	27 Feb 2024	Comments	
I25	09 Feb 2024	Depth (m)	10
I25	09 Feb 2024	Arrive Time	1117
I25	09 Feb 2024	Depart Time	1120
I25	09 Feb 2024	Air Temp (C)	11.8
I25	09 Feb 2024	Weather	Rain
I25	09 Feb 2024	Visibility (mi)	5
I25	09 Feb 2024	Wind Speed (kts)	3.2
I25	09 Feb 2024	Wind Dir	NE
I25	09 Feb 2024	Water Color	Brown
I25	09 Feb 2024	Wave Height Low (ft)	4
I25	09 Feb 2024	Wave Period (sec)	11
I25	09 Feb 2024	Sea State	Confused Swell
I25	09 Feb 2024	High Tide (ft)	6.68
I25	09 Feb 2024	High Tide Time	806
I25	09 Feb 2024	Low Tide (ft)	-1.75
I25	09 Feb 2024	Low Tide Time	1506
I25	09 Feb 2024	Comments	
I25	12 Feb 2024	Depth (m)	10
I25	12 Feb 2024	Arrive Time	1123
I25	12 Feb 2024	Depart Time	1128
I25	12 Feb 2024	Air Temp (C)	13.8
I25	12 Feb 2024	Weather	Clear
I25	12 Feb 2024	Visibility (mi)	10
I25	12 Feb 2024	Wind Speed (kts)	7.7
I25	12 Feb 2024	Wind Dir	NW
I25	12 Feb 2024	Water Color	Green
I25	12 Feb 2024	Wave Height Low (ft)	3
I25	12 Feb 2024	Wave Period (sec)	18
I25	12 Feb 2024	Sea State	Calm
I25	12 Feb 2024	High Tide (ft)	5.5
I25	12 Feb 2024	High Tide Time	1024
I25	12 Feb 2024	Low Tide (ft)	-0.56
I25	12 Feb 2024	Low Tide Time	1648

Station	Date	Parameter	Value
I25	12 Feb 2024	Comments	
I25	21 Feb 2024	Depth (m)	9
I25	21 Feb 2024	Arrive Time	1044
I25	21 Feb 2024	Depart Time	1047
I25	21 Feb 2024	Air Temp (C)	15.1
I25	21 Feb 2024	Weather	Partly Cloudy
I25	21 Feb 2024	Visibility (mi)	10
I25	21 Feb 2024	Wind Speed (kts)	6.5
I25	21 Feb 2024	Wind Dir	SW
I25	21 Feb 2024	Water Color	Green
I25	21 Feb 2024	Wave Height Low (ft)	9
I25	21 Feb 2024	Wave Period (sec)	15
I25	21 Feb 2024	Sea State	Light Chop
I25	21 Feb 2024	High Tide (ft)	5.42
I25	21 Feb 2024	High Tide Time	700
I25	21 Feb 2024	Low Tide (ft)	-0.83
I25	21 Feb 2024	Low Tide Time	1406
I25	21 Feb 2024	Comments	
I25	27 Feb 2024	Depth (m)	9
I25	27 Feb 2024	Arrive Time	1112
I25	27 Feb 2024	Depart Time	1116
I25	27 Feb 2024	Air Temp (C)	15.5
I25	27 Feb 2024	Weather	Partly Cloudy
I25	27 Feb 2024	Visibility (mi)	7
I25	27 Feb 2024	Wind Speed (kts)	9.6
I25	27 Feb 2024	Wind Dir	W
I25	27 Feb 2024	Water Color	Brownish-Green
I25	27 Feb 2024	Wave Height Low (ft)	3
I25	27 Feb 2024	Wave Period (sec)	15
I25	27 Feb 2024	Sea State	Calm
I25	27 Feb 2024	High Tide (ft)	4.44
I25	27 Feb 2024	High Tide Time	2236
I25	27 Feb 2024	Low Tide (ft)	0.53
I25	27 Feb 2024	Low Tide Time	1612
I25	27 Feb 2024	Comments	
I26	09 Feb 2024	Depth (m)	10
I26	09 Feb 2024	Arrive Time	1126
I26	09 Feb 2024	Depart Time	1137
I26	09 Feb 2024	Air Temp (C)	11.9
I26	09 Feb 2024	Weather	Rain
I26	09 Feb 2024	Visibility (mi)	5
I26	09 Feb 2024	Wind Speed (kts)	3.2
I26	09 Feb 2024	Wind Dir	E
I26	09 Feb 2024	Water Color	Brown
I26	09 Feb 2024	Wave Height Low (ft)	4
I26	09 Feb 2024	Wave Period (sec)	11
I26	09 Feb 2024	Sea State	Confused Swell
I26	09 Feb 2024	High Tide (ft)	6.68
I26	09 Feb 2024	High Tide Time	806
I26	09 Feb 2024	Low Tide (ft)	-1.75
I26	09 Feb 2024	Low Tide Time	1506
I26	09 Feb 2024	Comments	
I26	12 Feb 2024	Depth (m)	10
I26	12 Feb 2024	Arrive Time	1135
I26	12 Feb 2024	Depart Time	1142
I26	12 Feb 2024	Air Temp (C)	14.1
I26	12 Feb 2024	Weather	Clear

Station	Date	Parameter	Value
I26	12 Feb 2024	Visibility (mi)	10
I26	12 Feb 2024	Wind Speed (kts)	8.5
I26	12 Feb 2024	Wind Dir	NW
I26	12 Feb 2024	Water Color	Green
I26	12 Feb 2024	Wave Height Low (ft)	3
I26	12 Feb 2024	Wave Period (sec)	18
I26	12 Feb 2024	Sea State	Calm
I26	12 Feb 2024	High Tide (ft)	5.5
I26	12 Feb 2024	High Tide Time	1024
I26	12 Feb 2024	Low Tide (ft)	-0.56
I26	12 Feb 2024	Low Tide Time	1648
I26	12 Feb 2024	Comments	
I26	21 Feb 2024	Depth (m)	9
I26	21 Feb 2024	Arrive Time	1054
I26	21 Feb 2024	Depart Time	1058
I26	21 Feb 2024	Air Temp (C)	15.1
I26	21 Feb 2024	Weather	Partly Cloudy
I26	21 Feb 2024	Visibility (mi)	10
I26	21 Feb 2024	Wind Speed (kts)	6.7
I26	21 Feb 2024	Wind Dir	SW
I26	21 Feb 2024	Water Color	Green
I26	21 Feb 2024	Wave Height Low (ft)	9
I26	21 Feb 2024	Wave Period (sec)	15
I26	21 Feb 2024	Sea State	Light Chop
I26	21 Feb 2024	High Tide (ft)	5.42
I26	21 Feb 2024	High Tide Time	700
I26	21 Feb 2024	Low Tide (ft)	-0.83
I26	21 Feb 2024	Low Tide Time	1406
I26	21 Feb 2024	Comments	
I26	27 Feb 2024	Depth (m)	10
I26	27 Feb 2024	Arrive Time	1122
I26	27 Feb 2024	Depart Time	1127
I26	27 Feb 2024	Air Temp (C)	15.6
I26	27 Feb 2024	Weather	Partly Cloudy
I26	27 Feb 2024	Visibility (mi)	7
I26	27 Feb 2024	Wind Speed (kts)	4.8
I26	27 Feb 2024	Wind Dir	SW
I26	27 Feb 2024	Water Color	Brownish-Green
I26	27 Feb 2024	Wave Height Low (ft)	3
I26	27 Feb 2024	Wave Period (sec)	15
I26	27 Feb 2024	Sea State	Calm
I26	27 Feb 2024	High Tide (ft)	4.44
I26	27 Feb 2024	High Tide Time	2236
I26	27 Feb 2024	Low Tide (ft)	0.53
I26	27 Feb 2024	Low Tide Time	1612
I26	27 Feb 2024	Comments	
I32	09 Feb 2024	Depth (m)	10
I32	09 Feb 2024	Arrive Time	1137
I32	09 Feb 2024	Depart Time	1141
I32	09 Feb 2024	Air Temp (C)	12.1
I32	09 Feb 2024	Weather	Rain
I32	09 Feb 2024	Visibility (mi)	5
I32	09 Feb 2024	Wind Speed (kts)	2.5
I32	09 Feb 2024	Wind Dir	E
I32	09 Feb 2024	Water Color	Brown
I32	09 Feb 2024	Wave Height Low (ft)	4
I32	09 Feb 2024	Wave Period (sec)	11
I32	09 Feb 2024	Sea State	Confused Swell

Station	Date	Parameter	Value
I32	09 Feb 2024	High Tide (ft)	6.68
I32	09 Feb 2024	High Tide Time	806
I32	09 Feb 2024	Low Tide (ft)	-1.75
I32	09 Feb 2024	Low Tide Time	1506
I32	09 Feb 2024	Comments	
I32	12 Feb 2024	Depth (m)	10
I32	12 Feb 2024	Arrive Time	1150
I32	12 Feb 2024	Depart Time	1156
I32	12 Feb 2024	Air Temp (C)	14.4
I32	12 Feb 2024	Weather	Clear
I32	12 Feb 2024	Visibility (mi)	10
I32	12 Feb 2024	Wind Speed (kts)	0.1
I32	12 Feb 2024	Wind Dir	W
I32	12 Feb 2024	Water Color	Green
I32	12 Feb 2024	Wave Height Low (ft)	3
I32	12 Feb 2024	Wave Period (sec)	18
I32	12 Feb 2024	Sea State	Calm
I32	12 Feb 2024	High Tide (ft)	5.5
I32	12 Feb 2024	High Tide Time	1024
I32	12 Feb 2024	Low Tide (ft)	-0.56
I32	12 Feb 2024	Low Tide Time	1648
I32	12 Feb 2024	Comments	
I32	21 Feb 2024	Depth (m)	10
I32	21 Feb 2024	Arrive Time	1108
I32	21 Feb 2024	Depart Time	1110
I32	21 Feb 2024	Air Temp (C)	15.2
I32	21 Feb 2024	Weather	Partly Cloudy
I32	21 Feb 2024	Visibility (mi)	10
I32	21 Feb 2024	Wind Speed (kts)	5.5
I32	21 Feb 2024	Wind Dir	SW
I32	21 Feb 2024	Water Color	Green
I32	21 Feb 2024	Wave Height Low (ft)	9
I32	21 Feb 2024	Wave Period (sec)	15
I32	21 Feb 2024	Sea State	Light Chop
I32	21 Feb 2024	High Tide (ft)	5.42
I32	21 Feb 2024	High Tide Time	700
I32	21 Feb 2024	Low Tide (ft)	-0.83
I32	21 Feb 2024	Low Tide Time	1406
I32	21 Feb 2024	Comments	
I32	27 Feb 2024	Depth (m)	11
I32	27 Feb 2024	Arrive Time	1135
I32	27 Feb 2024	Depart Time	1139
I32	27 Feb 2024	Air Temp (C)	15.6
I32	27 Feb 2024	Weather	Partly Cloudy
I32	27 Feb 2024	Visibility (mi)	7
I32	27 Feb 2024	Wind Speed (kts)	5.8
I32	27 Feb 2024	Wind Dir	SW
I32	27 Feb 2024	Water Color	Green
I32	27 Feb 2024	Wave Height Low (ft)	3
I32	27 Feb 2024	Wave Period (sec)	15
I32	27 Feb 2024	Sea State	Calm
I32	27 Feb 2024	High Tide (ft)	4.44
I32	27 Feb 2024	High Tide Time	2236
I32	27 Feb 2024	Low Tide (ft)	0.53
I32	27 Feb 2024	Low Tide Time	1612
I32	27 Feb 2024	Comments	
I39	09 Feb 2024	Depth (m)	19

Station	Date	Parameter	Value
I39	09 Feb 2024	Arrive Time	1028
I39	09 Feb 2024	Depart Time	1049
I39	09 Feb 2024	Air Temp (C)	11.8
I39	09 Feb 2024	Weather	Rain
I39	09 Feb 2024	Visibility (mi)	5
I39	09 Feb 2024	Wind Speed (kts)	5.9
I39	09 Feb 2024	Wind Dir	S
I39	09 Feb 2024	Water Color	Green
I39	09 Feb 2024	Wave Height Low (ft)	4
I39	09 Feb 2024	Wave Period (sec)	11
I39	09 Feb 2024	Sea State	Confused Swell
I39	09 Feb 2024	High Tide (ft)	6.68
I39	09 Feb 2024	High Tide Time	806
I39	09 Feb 2024	Low Tide (ft)	-1.75
I39	09 Feb 2024	Low Tide Time	1506
I39	09 Feb 2024	Comments	
I39	12 Feb 2024	Depth (m)	19
I39	12 Feb 2024	Arrive Time	1030
I39	12 Feb 2024	Depart Time	1036
I39	12 Feb 2024	Air Temp (C)	13.7
I39	12 Feb 2024	Weather	Clear
I39	12 Feb 2024	Visibility (mi)	10
I39	12 Feb 2024	Wind Speed (kts)	6.4
I39	12 Feb 2024	Wind Dir	N
I39	12 Feb 2024	Water Color	Greenish-Blue
I39	12 Feb 2024	Wave Height Low (ft)	3
I39	12 Feb 2024	Wave Period (sec)	18
I39	12 Feb 2024	Sea State	Calm
I39	12 Feb 2024	High Tide (ft)	5.5
I39	12 Feb 2024	High Tide Time	1024
I39	12 Feb 2024	Low Tide (ft)	-0.56
I39	12 Feb 2024	Low Tide Time	1648
I39	12 Feb 2024	Comments	
I39	21 Feb 2024	Depth (m)	19
I39	21 Feb 2024	Arrive Time	955
I39	21 Feb 2024	Depart Time	958
I39	21 Feb 2024	Air Temp (C)	15.1
I39	21 Feb 2024	Weather	Partly Cloudy
I39	21 Feb 2024	Visibility (mi)	10
I39	21 Feb 2024	Wind Speed (kts)	5.8
I39	21 Feb 2024	Wind Dir	SW
I39	21 Feb 2024	Water Color	Greenish-Blue
I39	21 Feb 2024	Wave Height Low (ft)	9
I39	21 Feb 2024	Wave Period (sec)	15
I39	21 Feb 2024	Sea State	Light Chop
I39	21 Feb 2024	High Tide (ft)	5.42
I39	21 Feb 2024	High Tide Time	700
I39	21 Feb 2024	Low Tide (ft)	-0.83
I39	21 Feb 2024	Low Tide Time	1406
I39	21 Feb 2024	Comments	
I39	27 Feb 2024	Depth (m)	20
I39	27 Feb 2024	Arrive Time	1023
I39	27 Feb 2024	Depart Time	1027
I39	27 Feb 2024	Air Temp (C)	15.5
I39	27 Feb 2024	Weather	Partly Cloudy
I39	27 Feb 2024	Visibility (mi)	7
I39	27 Feb 2024	Wind Speed (kts)	1.7
I39	27 Feb 2024	Wind Dir	SE

Station	Date	Parameter	Value
I39	27 Feb 2024	Water Color	Blueish-Green
I39	27 Feb 2024	Wave Height Low (ft)	3
I39	27 Feb 2024	Wave Period (sec)	15
I39	27 Feb 2024	Sea State	Calm
I39	27 Feb 2024	High Tide (ft)	4.44
I39	27 Feb 2024	High Tide Time	2236
I39	27 Feb 2024	Low Tide (ft)	0.53
I39	27 Feb 2024	Low Tide Time	1612
I39	27 Feb 2024	Comments	
I40	09 Feb 2024	Depth (m)	11
I40	09 Feb 2024	Arrive Time	1103
I40	09 Feb 2024	Depart Time	1108
I40	09 Feb 2024	Air Temp (C)	11.2
I40	09 Feb 2024	Weather	Rain
I40	09 Feb 2024	Visibility (mi)	5
I40	09 Feb 2024	Wind Speed (kts)	2.3
I40	09 Feb 2024	Wind Dir	S
I40	09 Feb 2024	Water Color	Brown
I40	09 Feb 2024	Wave Height Low (ft)	4
I40	09 Feb 2024	Wave Period (sec)	11
I40	09 Feb 2024	Sea State	Confused Swell
I40	09 Feb 2024	High Tide (ft)	6.68
I40	09 Feb 2024	High Tide Time	806
I40	09 Feb 2024	Low Tide (ft)	-1.75
I40	09 Feb 2024	Low Tide Time	1506
I40	09 Feb 2024	Comments	DUMPING rain
I40	12 Feb 2024	Depth (m)	10
I40	12 Feb 2024	Arrive Time	1104
I40	12 Feb 2024	Depart Time	1110
I40	12 Feb 2024	Air Temp (C)	14.1
I40	12 Feb 2024	Weather	Clear
I40	12 Feb 2024	Visibility (mi)	10
I40	12 Feb 2024	Wind Speed (kts)	6.6
I40	12 Feb 2024	Wind Dir	N
I40	12 Feb 2024	Water Color	Green
I40	12 Feb 2024	Wave Height Low (ft)	3
I40	12 Feb 2024	Wave Period (sec)	18
I40	12 Feb 2024	Sea State	Calm
I40	12 Feb 2024	High Tide (ft)	5.5
I40	12 Feb 2024	High Tide Time	1024
I40	12 Feb 2024	Low Tide (ft)	-0.56
I40	12 Feb 2024	Low Tide Time	1648
I40	12 Feb 2024	Comments	
I40	21 Feb 2024	Depth (m)	10
I40	21 Feb 2024	Arrive Time	1032
I40	21 Feb 2024	Depart Time	1032
I40	21 Feb 2024	Air Temp (C)	15.2
I40	21 Feb 2024	Weather	Partly Cloudy
I40	21 Feb 2024	Visibility (mi)	10
I40	21 Feb 2024	Wind Speed (kts)	7.5
I40	21 Feb 2024	Wind Dir	SW
I40	21 Feb 2024	Water Color	Green
I40	21 Feb 2024	Wave Height Low (ft)	9
I40	21 Feb 2024	Wave Period (sec)	15
I40	21 Feb 2024	Sea State	Light Chop
I40	21 Feb 2024	High Tide (ft)	5.42
I40	21 Feb 2024	High Tide Time	700
I40	21 Feb 2024	Low Tide (ft)	-0.83

Station	Date	Parameter	Value
I40	21 Feb 2024	Low Tide Time	1406
I40	21 Feb 2024	Comments	On station, entered NavOps late, Plume visible
I40	27 Feb 2024	Depth (m)	11
I40	27 Feb 2024	Arrive Time	1058
I40	27 Feb 2024	Depart Time	1102
I40	27 Feb 2024	Air Temp (C)	15.4
I40	27 Feb 2024	Weather	Partly Cloudy
I40	27 Feb 2024	Visibility (mi)	7
I40	27 Feb 2024	Wind Speed (kts)	7.5
I40	27 Feb 2024	Wind Dir	NW
I40	27 Feb 2024	Water Color	Brownish-Green
I40	27 Feb 2024	Wave Height Low (ft)	3
I40	27 Feb 2024	Wave Period (sec)	15
I40	27 Feb 2024	Sea State	Calm
I40	27 Feb 2024	High Tide (ft)	4.44
I40	27 Feb 2024	High Tide Time	2236
I40	27 Feb 2024	Low Tide (ft)	0.53
I40	27 Feb 2024	Low Tide Time	1612
I40	27 Feb 2024	Comments	

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	09 Feb 2024	1	14.99	10.58	8.1	31.48	8.2	23.3	NA
I19	09 Feb 2024	2	15.00	10.69	8.1	31.60	8.2	23.4	NA
I19	09 Feb 2024	3	14.96	11.57	8.0	32.17	8.2	23.8	NA
I19	09 Feb 2024	4	15.03	10.66	7.8	32.49	8.2	24.0	NA
I19	09 Feb 2024	5	15.08	15.35	7.8	32.55	8.2	24.1	NA
I19	09 Feb 2024	6	15.12	20.86	7.9	32.63	8.2	24.1	NA
I19	09 Feb 2024	7	15.24	33.76	7.8	32.83	8.2	24.2	NA
I19	09 Feb 2024	8	15.22	54.18	7.8	32.90	8.2	24.3	NA
I19	09 Feb 2024	9	15.20	61.39	7.8	32.89	8.2	24.3	NA
I19	09 Feb 2024	10	15.15	58.72	7.7	33.00	8.2	24.4	NA
I19	21 Feb 2024	1	15.30	68.96	8.2	32.62	8.2	24.1	0.56
I19	21 Feb 2024	2	15.29	63.39	8.2	32.72	8.2	24.1	0.57
I19	21 Feb 2024	3	15.26	81.68	8.2	32.77	8.2	24.2	0.78
I19	21 Feb 2024	4	15.25	86.67	8.2	32.79	8.2	24.2	1.06
I19	21 Feb 2024	5	15.24	89.44	8.2	32.80	8.2	24.2	1.47
I19	21 Feb 2024	6	15.22	88.50	8.1	32.81	8.2	24.2	1.66
I19	21 Feb 2024	7	15.14	78.17	8.0	32.87	8.2	24.3	1.79
I19	21 Feb 2024	8	15.05	55.49	7.8	32.92	8.2	24.4	1.75
I19	21 Feb 2024	9	14.99	36.86	7.6	32.96	8.1	24.4	1.62
I19	21 Feb 2024	10	14.93	22.58	7.4	32.99	8.1	24.4	1.57
I19	27 Feb 2024	1	15.42	85.40	9.0	32.95	8.2	24.3	0.84
I19	27 Feb 2024	2	15.39	85.33	9.0	32.98	8.2	24.3	0.96
I19	27 Feb 2024	3	15.09	84.76	8.5	33.05	8.2	24.4	1.87
I19	27 Feb 2024	4	14.81	81.68	8.1	33.03	8.2	24.5	2.26
I19	27 Feb 2024	5	14.63	72.84	7.9	33.03	8.1	24.5	2.19
I19	27 Feb 2024	6	14.57	65.35	7.8	33.04	8.1	24.6	2.07
I19	27 Feb 2024	7	14.46	61.32	7.6	33.07	8.1	24.6	1.94
I19	27 Feb 2024	8	14.34	60.29	7.3	33.10	8.1	24.6	1.8
I19	27 Feb 2024	9	14.13	58.83	6.8	33.14	8.1	24.7	1.68
I19	27 Feb 2024	10	13.87	47.11	6.7	33.17	8.0	24.8	1.65
I24	09 Feb 2024	1	14.74	11.02	8.4	30.64	8.2	22.7	NA
I24	09 Feb 2024	2	14.76	10.22	8.4	30.79	8.2	22.8	NA
I24	09 Feb 2024	3	14.82	17.77	8.3	31.61	8.2	23.4	NA
I24	09 Feb 2024	4	14.89	26.07	8.1	31.95	8.2	23.6	NA
I24	09 Feb 2024	5	14.93	29.41	8.0	32.16	8.2	23.8	NA
I24	09 Feb 2024	6	15.15	25.82	7.6	32.77	8.2	24.2	NA
I24	09 Feb 2024	7	15.18	27.75	7.4	32.93	8.2	24.3	NA
I24	09 Feb 2024	8	15.18	18.82	7.4	32.95	8.2	24.4	NA
I24	09 Feb 2024	9	15.18	15.27	7.3	32.98	8.2	24.4	NA
I24	09 Feb 2024	10	15.18	14.80	7.3	32.98	8.2	24.4	NA
I24	21 Feb 2024	1	15.36	93.03	8.1	32.62	8.2	24.1	0.37
I24	21 Feb 2024	2	15.25	93.03	8.1	32.70	8.2	24.1	0.37
I24	21 Feb 2024	3	15.16	93.45	8.0	32.84	8.2	24.3	0.42
I24	21 Feb 2024	4	15.01	88.21	7.9	32.94	8.2	24.4	0.53
I24	21 Feb 2024	5	14.99	78.67	7.8	32.95	8.2	24.4	0.65
I24	21 Feb 2024	6	14.98	71.65	7.8	32.96	8.1	24.4	0.78
I24	21 Feb 2024	7	14.97	70.74	7.8	32.96	8.1	24.4	0.91
I24	21 Feb 2024	8	14.97	70.72	8.0	32.96	8.1	24.4	1.02
I24	21 Feb 2024	9	14.97	70.83	7.9	32.96	8.1	24.4	1.06
I24	21 Feb 2024	10	14.95	66.93	7.6	32.98	8.1	24.4	1.03
I24	21 Feb 2024	11	14.93	59.98	7.7	32.98	8.1	24.4	1

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I24	27 Feb 2024	1	15.38	70.35	9.2	32.76	8.2	24.2	0.84
I24	27 Feb 2024	2	15.34	70.79	10.0	32.92	8.3	24.3	3.29
I24	27 Feb 2024	3	15.26	72.98	9.7	32.99	8.3	24.4	14.85
I24	27 Feb 2024	4	15.18	69.83	9.3	32.98	8.3	24.4	13.62
I24	27 Feb 2024	5	15.14	69.94	9.0	32.98	8.2	24.4	8.13
I24	27 Feb 2024	6	15.10	83.18	8.8	32.98	8.2	24.4	4.46
I24	27 Feb 2024	7	15.02	89.00	8.5	33.01	8.2	24.4	2.48
I24	27 Feb 2024	8	14.65	91.61	7.7	33.09	8.2	24.6	1.6
I24	27 Feb 2024	9	14.08	86.84	6.6	33.16	8.1	24.7	1.19
I24	27 Feb 2024	10	13.93	79.28	6.6	33.16	8.1	24.8	1.07
I25	09 Feb 2024	1	14.76	29.32	8.4	31.57	8.2	23.4	NA
I25	09 Feb 2024	2	14.76	28.54	8.3	31.53	8.2	23.4	NA
I25	09 Feb 2024	3	14.99	27.84	8.0	32.39	8.2	24.0	NA
I25	09 Feb 2024	4	15.13	24.27	7.7	32.72	8.2	24.2	NA
I25	09 Feb 2024	5	15.17	31.62	7.4	32.91	8.2	24.3	NA
I25	09 Feb 2024	6	15.17	26.25	7.3	32.96	8.2	24.4	NA
I25	09 Feb 2024	7	15.17	18.32	8.8	32.97	8.2	24.4	NA
I25	09 Feb 2024	8	15.16	20.96	7.5	32.95	8.2	24.4	NA
I25	09 Feb 2024	9	15.17	13.66	7.0	32.95	8.2	24.4	NA
I25	21 Feb 2024	1	15.41	89.72	8.1	32.65	8.2	24.1	0.39
I25	21 Feb 2024	2	15.32	90.76	8.1	32.70	8.2	24.1	0.39
I25	21 Feb 2024	3	15.25	91.05	8.2	32.77	8.2	24.2	0.41
I25	21 Feb 2024	4	15.26	92.86	8.2	32.79	8.2	24.2	0.41
I25	21 Feb 2024	5	15.24	93.79	8.2	32.80	8.2	24.2	0.43
I25	21 Feb 2024	6	15.21	93.01	8.2	32.81	8.2	24.2	0.52
I25	21 Feb 2024	7	15.16	89.92	8.3	32.83	8.2	24.3	0.64
I25	21 Feb 2024	8	15.05	83.15	7.8	32.90	8.2	24.3	0.71
I25	21 Feb 2024	9	14.80	75.21	7.6	33.03	8.1	24.5	0.76
I25	27 Feb 2024	1	15.49	63.18	8.5	32.64	8.1	24.0	0.63
I25	27 Feb 2024	2	15.32	63.25	9.2	32.87	8.2	24.3	1.4
I25	27 Feb 2024	3	15.19	73.02	9.2	32.97	8.3	24.4	5.43
I25	27 Feb 2024	4	15.11	77.70	8.9	32.97	8.2	24.4	5.97
I25	27 Feb 2024	5	15.06	82.34	8.8	32.98	8.2	24.4	3.14
I25	27 Feb 2024	6	15.03	89.60	8.6	32.99	8.2	24.4	2.01
I25	27 Feb 2024	7	14.97	92.11	8.4	33.01	8.2	24.4	1.57
I25	27 Feb 2024	8	14.81	93.13	8.0	33.06	8.2	24.5	1.33
I25	27 Feb 2024	9	14.29	91.58	7.1	33.14	8.1	24.7	1.04
I26	09 Feb 2024	1	14.81	28.12	8.3	31.92	8.2	23.6	NA
I26	09 Feb 2024	2	14.81	27.99	8.3	32.06	8.2	23.7	NA
I26	09 Feb 2024	3	14.96	33.16	8.0	32.42	8.2	24.0	NA
I26	09 Feb 2024	4	15.17	46.05	7.7	32.90	8.2	24.3	NA
I26	09 Feb 2024	5	15.17	60.63	7.6	32.95	8.2	24.4	NA
I26	09 Feb 2024	6	15.14	52.11	7.4	32.99	8.2	24.4	NA
I26	09 Feb 2024	7	15.14	23.97	7.2	33.03	8.2	24.4	NA
I26	09 Feb 2024	8	15.14	2.59	6.9	33.04	8.2	24.4	NA
I26	09 Feb 2024	9	15.13	1.20	7.0	33.05	8.2	24.4	NA
I26	21 Feb 2024	1	15.53	93.20	8.2	32.77	8.2	24.1	0.3
I26	21 Feb 2024	2	15.52	93.09	8.2	32.77	8.2	24.1	0.3
I26	21 Feb 2024	3	15.40	93.12	8.2	32.79	8.2	24.2	0.3
I26	21 Feb 2024	4	15.24	93.13	8.2	32.82	8.2	24.2	0.35
I26	21 Feb 2024	5	15.21	91.92	8.2	32.82	8.2	24.2	0.44
I26	21 Feb 2024	6	15.13	87.47	8.2	32.92	8.2	24.3	0.61
I26	21 Feb 2024	7	15.01	73.59	7.8	32.98	8.2	24.4	0.85
I26	21 Feb 2024	8	14.79	57.68	7.6	33.04	8.1	24.5	1.1
I26	21 Feb 2024	9	14.67	56.43	7.5	33.08	8.1	24.6	1.2

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I26	27 Feb 2024	1	15.49	54.87	9.7	32.70	8.2	24.1	1.13
I26	27 Feb 2024	2	15.32	60.33	9.9	32.90	8.3	24.3	5.81
I26	27 Feb 2024	3	15.20	68.77	8.9	32.97	8.2	24.4	9.71
I26	27 Feb 2024	4	15.17	79.19	8.5	32.99	8.2	24.4	4.2
I26	27 Feb 2024	5	15.14	89.24	8.4	33.01	8.2	24.4	2.6
I26	27 Feb 2024	6	15.02	91.44	8.2	33.03	8.2	24.4	2
I26	27 Feb 2024	7	14.73	91.71	7.8	33.08	8.2	24.6	1.75
I26	27 Feb 2024	8	14.31	90.91	7.8	33.13	8.1	24.7	1.8
I26	27 Feb 2024	9	14.06	87.83	6.9	33.15	8.1	24.7	1.23
I32	09 Feb 2024	1	14.78	38.27	8.6	32.02	8.2	23.7	NA
I32	09 Feb 2024	2	14.77	37.05	8.6	32.15	8.2	23.8	NA
I32	09 Feb 2024	3	14.87	44.08	8.3	32.34	8.2	23.9	NA
I32	09 Feb 2024	4	15.01	42.64	8.0	32.55	8.2	24.1	NA
I32	09 Feb 2024	5	15.07	36.99	7.9	32.64	8.2	24.1	NA
I32	09 Feb 2024	6	15.03	32.85	7.8	32.74	8.2	24.2	NA
I32	09 Feb 2024	7	15.05	25.32	7.8	32.81	8.2	24.3	NA
I32	09 Feb 2024	8	15.11	15.67	7.6	32.89	8.2	24.3	NA
I32	09 Feb 2024	9	15.15	15.01	7.4	32.92	8.2	24.3	NA
I32	09 Feb 2024	10	15.19	13.63	7.0	32.98	8.2	24.4	NA
I32	21 Feb 2024	1	15.40	89.54	8.3	32.78	8.2	24.2	0.3
I32	21 Feb 2024	2	15.29	91.73	8.3	32.81	8.2	24.2	0.31
I32	21 Feb 2024	3	15.26	87.85	8.3	32.81	8.2	24.2	0.38
I32	21 Feb 2024	4	15.26	84.84	8.3	32.82	8.2	24.2	0.46
I32	21 Feb 2024	5	15.19	83.07	8.4	32.84	8.2	24.3	0.58
I32	21 Feb 2024	6	15.18	83.25	8.4	32.85	8.2	24.3	0.74
I32	21 Feb 2024	7	15.20	81.76	8.4	32.90	8.2	24.3	1.15
I32	21 Feb 2024	8	15.20	81.11	8.3	32.92	8.2	24.3	1.94
I32	21 Feb 2024	9	15.11	58.91	8.0	32.99	8.2	24.4	1.93
I32	21 Feb 2024	10	15.14	45.52	8.2	32.96	8.2	24.4	1.79
I32	27 Feb 2024	1	15.59	80.39	8.9	32.91	8.2	24.2	0.35
I32	27 Feb 2024	2	15.47	82.31	9.0	33.04	8.2	24.4	0.32
I32	27 Feb 2024	3	15.30	85.65	8.9	33.05	8.3	24.4	0.36
I32	27 Feb 2024	4	15.21	86.11	8.5	33.06	8.2	24.4	0.46
I32	27 Feb 2024	5	15.07	84.87	8.2	33.08	8.2	24.5	0.55
I32	27 Feb 2024	6	14.77	84.85	8.0	33.10	8.2	24.6	0.67
I32	27 Feb 2024	7	14.45	84.62	7.7	33.13	8.2	24.7	1.18
I32	27 Feb 2024	8	14.06	80.45	7.3	33.15	8.1	24.7	1.21
I32	27 Feb 2024	9	14.01	77.48	7.2	33.15	8.1	24.8	1.06
I32	27 Feb 2024	10	13.85	75.03	7.0	33.17	8.1	24.8	1.13
I39	09 Feb 2024	1	14.91	57.17	8.3	32.58	8.2	24.1	NA
I39	09 Feb 2024	2	14.91	56.19	8.3	32.59	8.2	24.1	NA
I39	09 Feb 2024	3	14.93	64.75	8.2	32.63	8.2	24.2	NA
I39	09 Feb 2024	4	15.17	71.41	7.8	32.99	8.2	24.4	NA
I39	09 Feb 2024	5	15.16	75.67	7.8	33.03	8.2	24.4	NA
I39	09 Feb 2024	6	15.10	79.70	7.9	33.03	8.2	24.4	NA
I39	09 Feb 2024	7	15.09	81.07	7.9	33.03	8.2	24.4	NA
I39	09 Feb 2024	8	15.08	80.89	7.9	33.05	8.2	24.4	NA
I39	09 Feb 2024	9	15.08	82.13	7.9	33.05	8.2	24.5	NA
I39	09 Feb 2024	10	15.08	82.57	7.9	33.06	8.2	24.5	NA
I39	09 Feb 2024	11	15.09	83.45	7.9	33.07	8.2	24.5	NA
I39	09 Feb 2024	12	15.12	85.23	7.9	33.09	8.2	24.5	NA
I39	09 Feb 2024	13	15.13	86.43	7.9	33.09	8.2	24.5	NA
I39	09 Feb 2024	14	15.12	86.43	7.8	33.09	8.2	24.5	NA
I39	09 Feb 2024	15	15.13	86.99	7.8	33.10	8.2	24.5	NA
I39	09 Feb 2024	16	15.12	86.05	7.8	33.11	8.2	24.5	NA
I39	09 Feb 2024	17	15.08	74.84	7.7	33.13	8.2	24.5	NA

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I39	09 Feb 2024	18	15.07	67.81	7.6	33.13	8.2	24.5	NA
I39	21 Feb 2024	1	15.36	92.02	8.1	32.72	8.2	24.1	0.58
I39	21 Feb 2024	2	15.33	91.70	8.2	32.77	8.2	24.2	0.59
I39	21 Feb 2024	3	15.30	92.32	8.1	32.82	8.2	24.2	0.6
I39	21 Feb 2024	4	15.29	92.52	8.1	32.82	8.2	24.2	0.58
I39	21 Feb 2024	5	15.29	92.75	8.1	32.83	8.2	24.2	0.61
I39	21 Feb 2024	6	15.29	93.02	8.1	32.86	8.2	24.3	0.58
I39	21 Feb 2024	7	15.27	93.81	8.1	32.88	8.2	24.3	0.56
I39	21 Feb 2024	8	15.20	94.59	8.0	32.90	8.2	24.3	0.58
I39	21 Feb 2024	9	15.14	94.94	8.0	32.95	8.2	24.4	0.67
I39	21 Feb 2024	10	15.12	94.94	8.0	32.97	8.2	24.4	0.76
I39	21 Feb 2024	11	15.05	94.67	7.8	32.99	8.2	24.4	0.86
I39	21 Feb 2024	12	14.66	94.39	7.4	33.07	8.2	24.6	0.89
I39	21 Feb 2024	13	14.25	92.13	7.2	33.14	8.1	24.7	0.9
I39	21 Feb 2024	14	14.41	85.41	7.1	33.10	8.1	24.6	0.96
I39	21 Feb 2024	15	14.06	79.77	6.8	33.18	8.1	24.8	1.05
I39	21 Feb 2024	16	13.91	71.68	6.6	33.21	8.1	24.8	1.15
I39	21 Feb 2024	17	13.86	61.81	6.4	33.23	8.0	24.8	1.23
I39	21 Feb 2024	18	13.83	61.14	6.3	33.23	8.0	24.9	1.26
I39	27 Feb 2024	1	15.26	93.08	8.8	32.99	8.2	24.4	0.51
I39	27 Feb 2024	2	15.09	92.29	8.7	32.99	8.2	24.4	1.02
I39	27 Feb 2024	3	15.02	91.19	8.6	32.99	8.2	24.4	2.16
I39	27 Feb 2024	4	14.90	88.55	8.3	33.01	8.2	24.5	2.78
I39	27 Feb 2024	5	14.76	87.79	8.0	33.04	8.2	24.5	2.09
I39	27 Feb 2024	6	14.65	90.82	7.8	33.06	8.2	24.6	1.59
I39	27 Feb 2024	7	14.50	92.28	7.6	33.09	8.1	24.6	1.27
I39	27 Feb 2024	8	14.38	93.47	7.5	33.10	8.1	24.6	1.14
I39	27 Feb 2024	9	14.29	94.15	7.4	33.11	8.1	24.7	1.01
I39	27 Feb 2024	10	14.12	94.28	7.2	33.13	8.1	24.7	0.89
I39	27 Feb 2024	11	13.73	94.15	7.0	33.18	8.1	24.8	0.78
I39	27 Feb 2024	12	13.66	93.49	6.9	33.17	8.1	24.8	0.71
I39	27 Feb 2024	13	13.57	91.86	6.8	33.18	8.1	24.9	0.7
I39	27 Feb 2024	14	13.50	90.91	6.8	33.18	8.1	24.9	0.7
I39	27 Feb 2024	15	13.43	90.10	6.8	33.19	8.1	24.9	0.72
I39	27 Feb 2024	16	13.41	89.10	6.7	33.19	8.0	24.9	0.74
I39	27 Feb 2024	17	13.37	88.75	6.8	33.19	8.0	24.9	0.77
I39	27 Feb 2024	18	13.36	88.05	6.7	33.19	8.0	24.9	0.77
I40	09 Feb 2024	1	14.76	3.65	8.2	30.88	8.2	22.8	NA
I40	09 Feb 2024	2	14.75	3.60	8.2	30.78	8.2	22.8	NA
I40	09 Feb 2024	3	14.78	4.91	8.2	31.24	8.2	23.1	NA
I40	09 Feb 2024	4	14.86	6.48	7.9	32.05	8.2	23.7	NA
I40	09 Feb 2024	5	14.94	7.30	7.6	32.45	8.1	24.0	NA
I40	09 Feb 2024	6	15.03	4.74	7.3	32.67	8.1	24.2	NA
I40	09 Feb 2024	7	15.11	3.64	7.1	32.84	8.1	24.3	NA
I40	09 Feb 2024	8	15.15	4.29	7.0	32.93	8.1	24.3	NA
I40	09 Feb 2024	9	15.15	4.98	7.0	32.98	8.1	24.4	NA
I40	09 Feb 2024	10	15.15	4.39	6.8	33.00	8.1	24.4	NA
I40	21 Feb 2024	1	15.21	14.23	8.2	32.29	8.1	23.8	0.95
I40	21 Feb 2024	2	15.19	14.59	8.1	32.46	8.1	24.0	1.02
I40	21 Feb 2024	3	15.18	27.51	8.1	32.56	8.2	24.1	1.11
I40	21 Feb 2024	4	15.19	41.69	8.1	32.59	8.2	24.1	1.1
I40	21 Feb 2024	5	15.19	48.29	8.1	32.63	8.2	24.1	1.04
I40	21 Feb 2024	6	15.15	54.42	8.0	32.77	8.2	24.2	1.09
I40	21 Feb 2024	7	15.12	68.08	8.0	32.84	8.2	24.3	1.12
I40	21 Feb 2024	8	15.11	75.77	8.0	32.87	8.2	24.3	1.1
I40	21 Feb 2024	9	15.10	73.43	7.9	32.91	8.2	24.3	1.08
I40	21 Feb 2024	10	15.09	66.15	7.6	32.94	8.1	24.4	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I40	27 Feb 2024	1	15.57	73.49	8.5	32.77	8.2	24.1	0.49
I40	27 Feb 2024	2	15.32	73.28	8.7	32.84	8.2	24.2	0.57
I40	27 Feb 2024	3	15.12	73.70	8.7	32.90	8.2	24.3	1.18
I40	27 Feb 2024	4	15.06	73.77	8.8	32.94	8.2	24.4	3.52
I40	27 Feb 2024	5	15.05	71.52	8.6	32.96	8.2	24.4	8.03
I40	27 Feb 2024	6	14.83	67.25	8.1	33.01	8.2	24.5	7.81
I40	27 Feb 2024	7	14.57	66.47	7.3	33.03	8.1	24.5	5.19
I40	27 Feb 2024	8	14.22	63.68	6.4	33.13	8.1	24.7	2.96
I40	27 Feb 2024	9	13.98	51.69	5.8	33.17	8.0	24.8	1.88
I40	27 Feb 2024	10	13.87	34.22	5.7	33.17	8.0	24.8	1.64

NA = not available

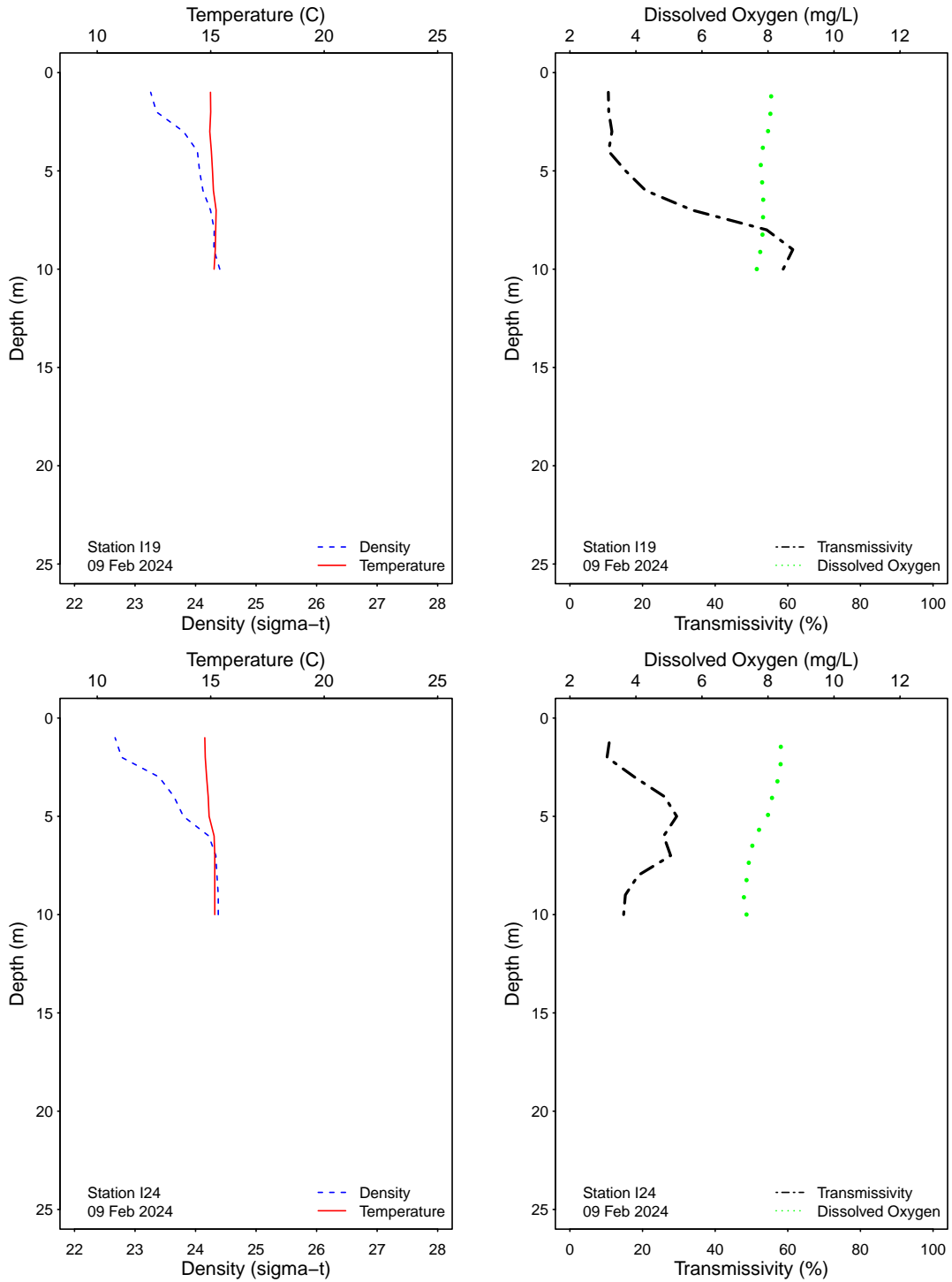


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

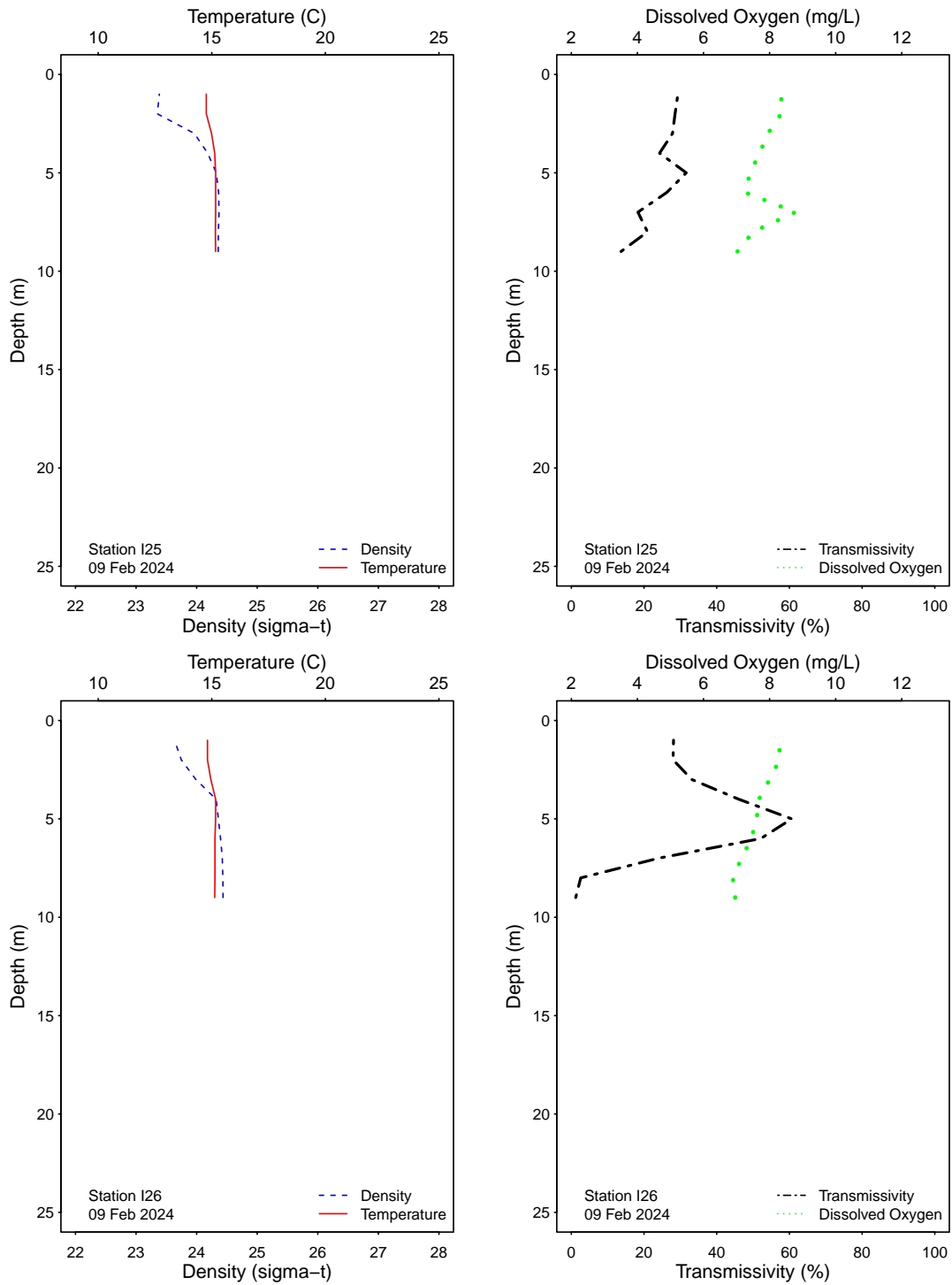


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

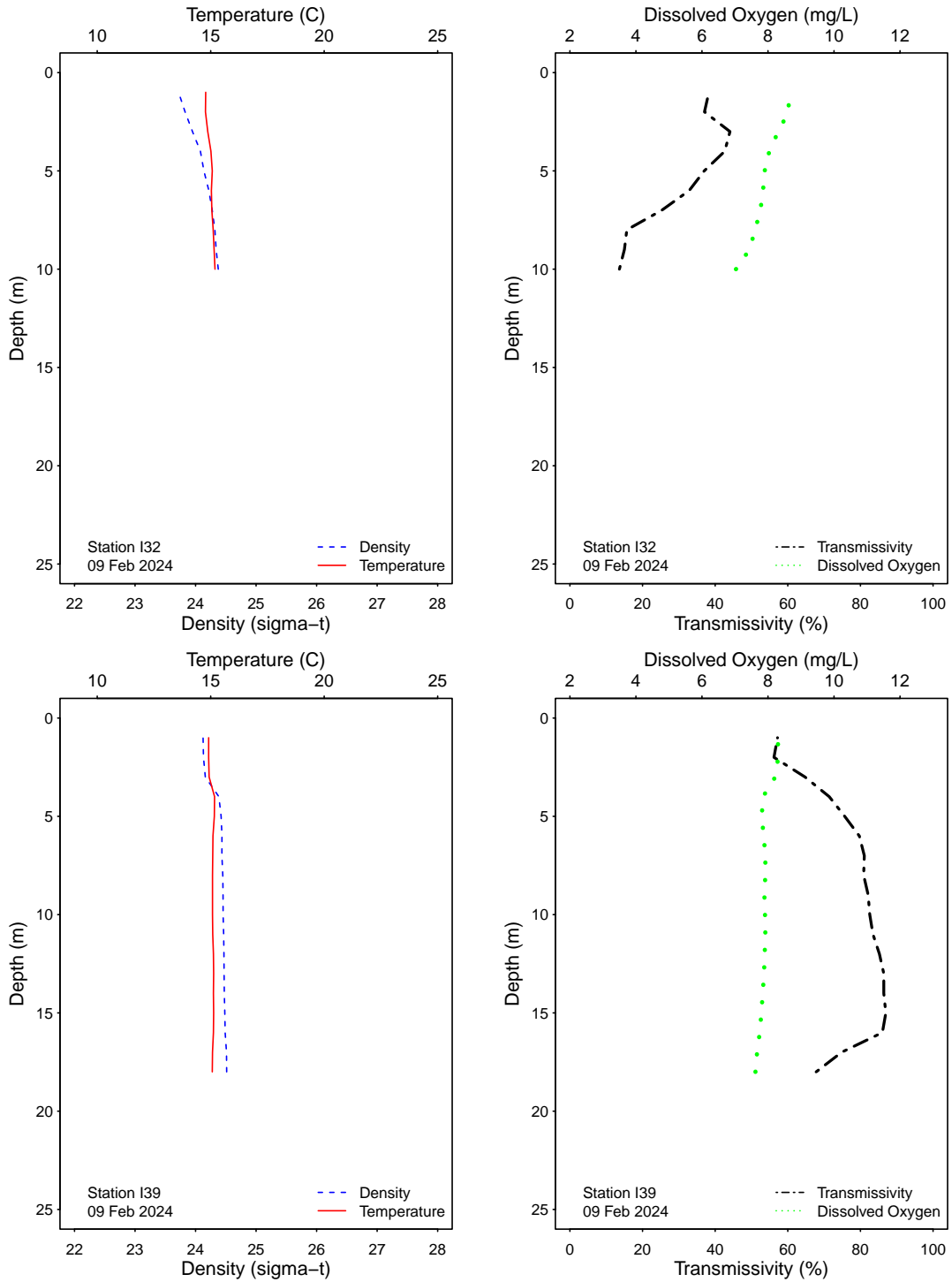


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

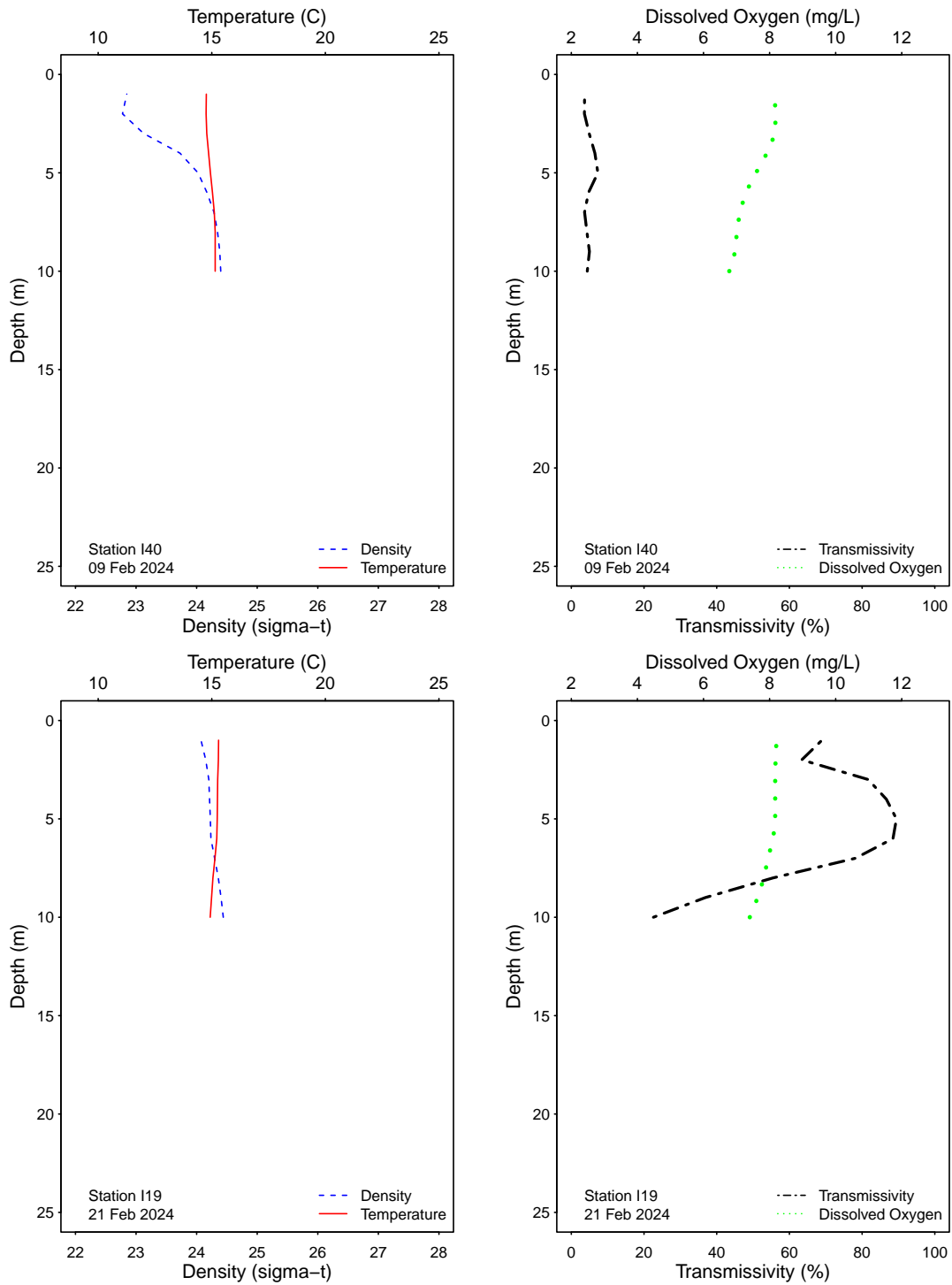


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

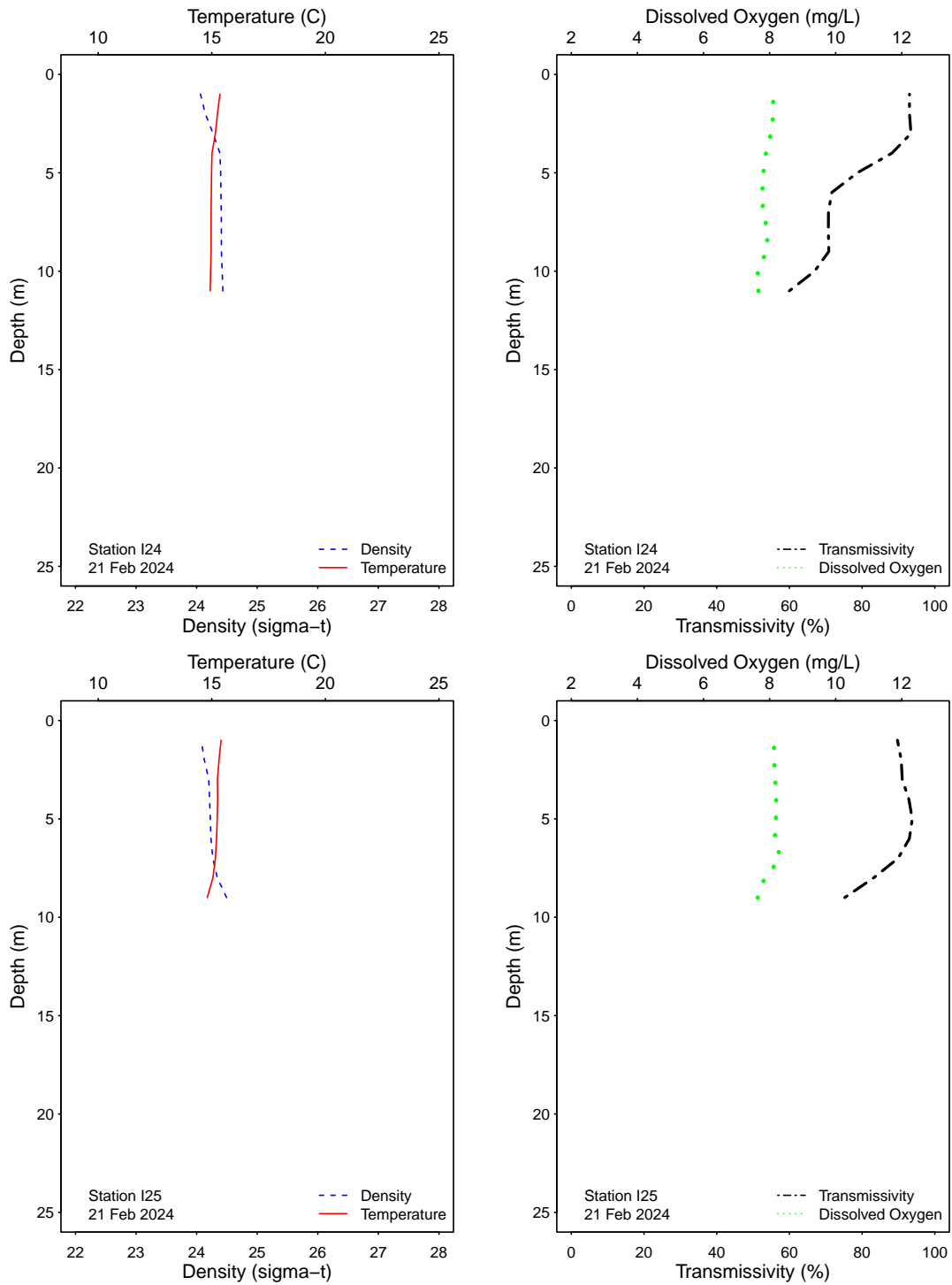


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

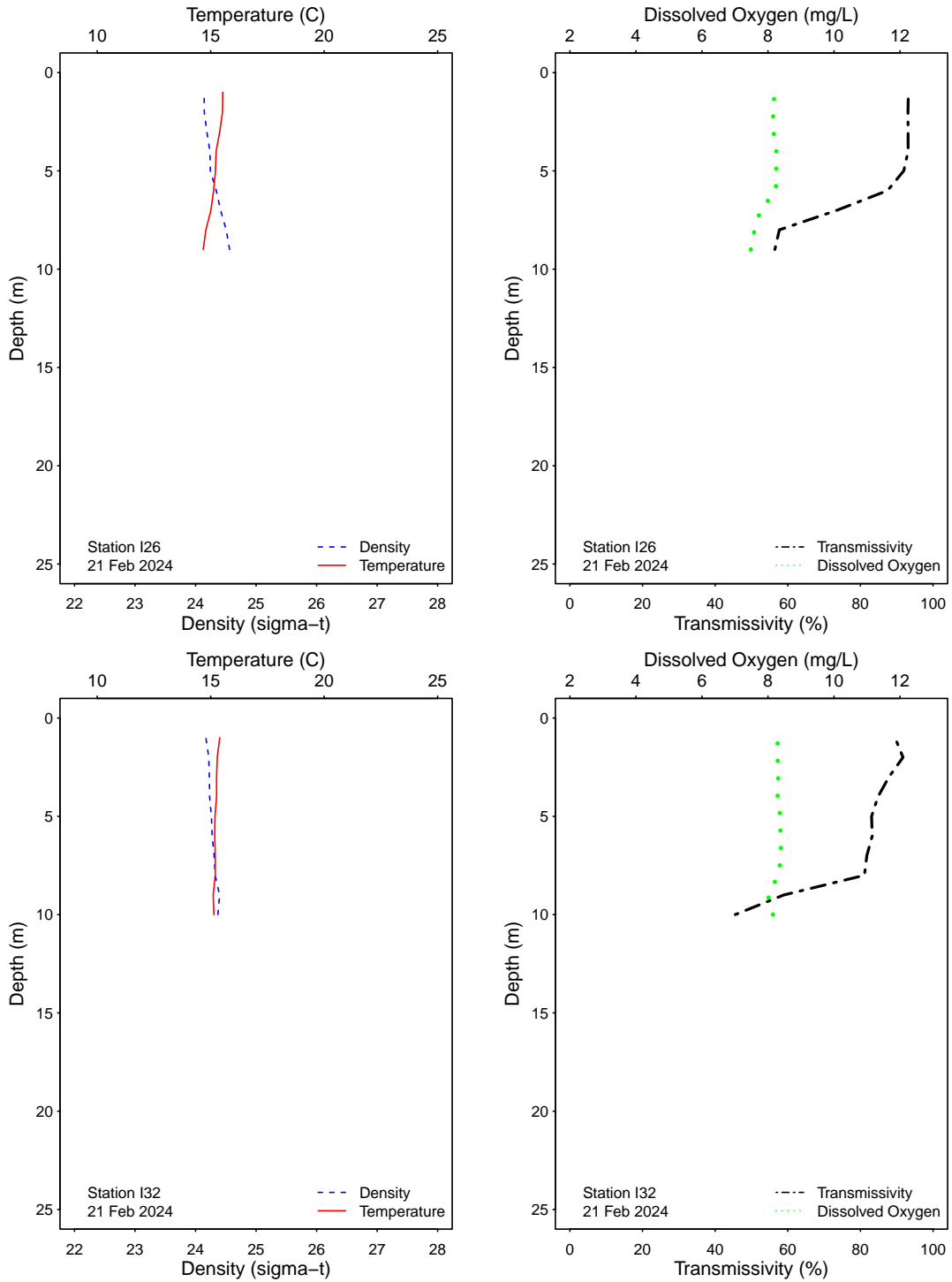


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

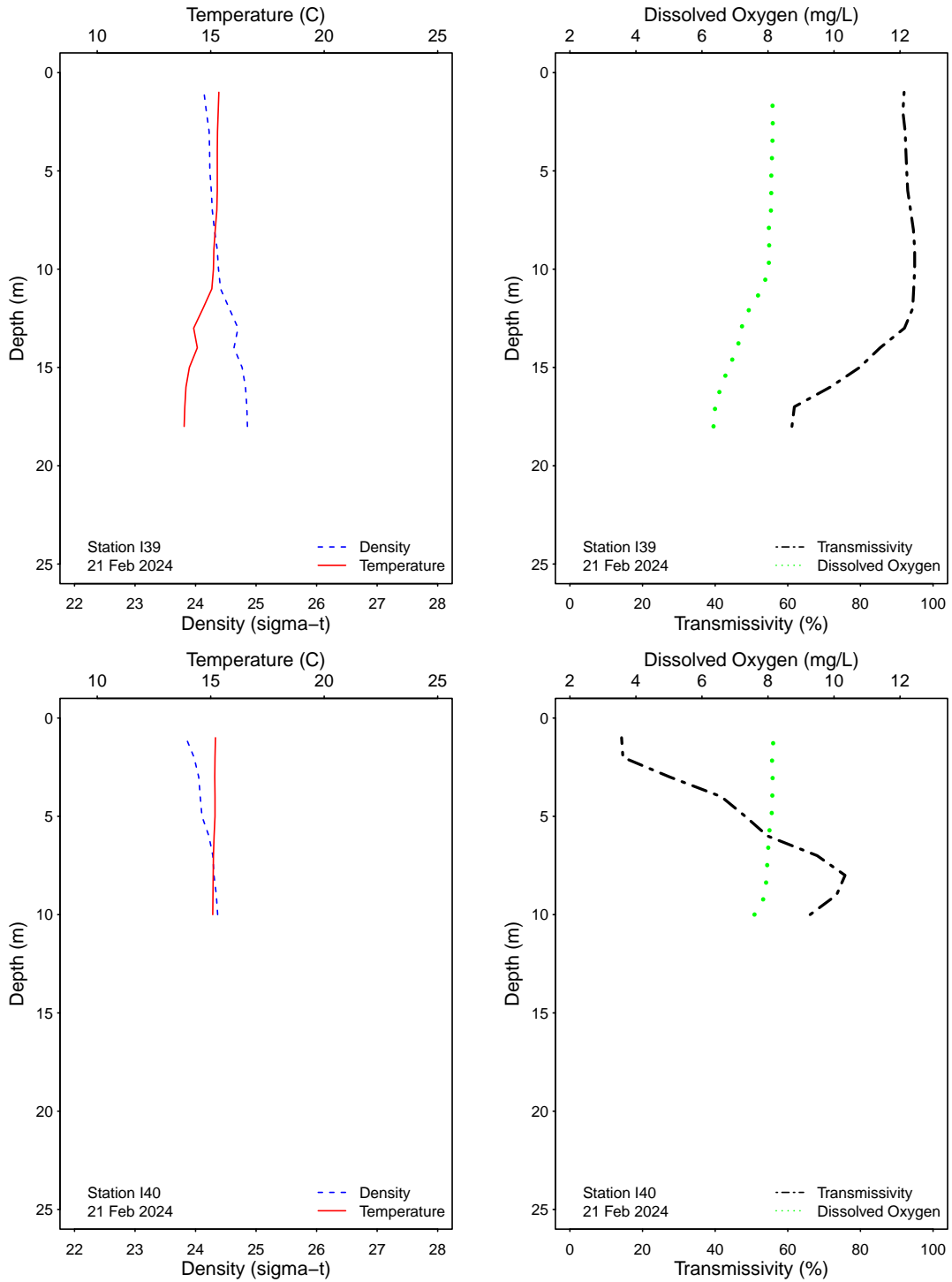


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

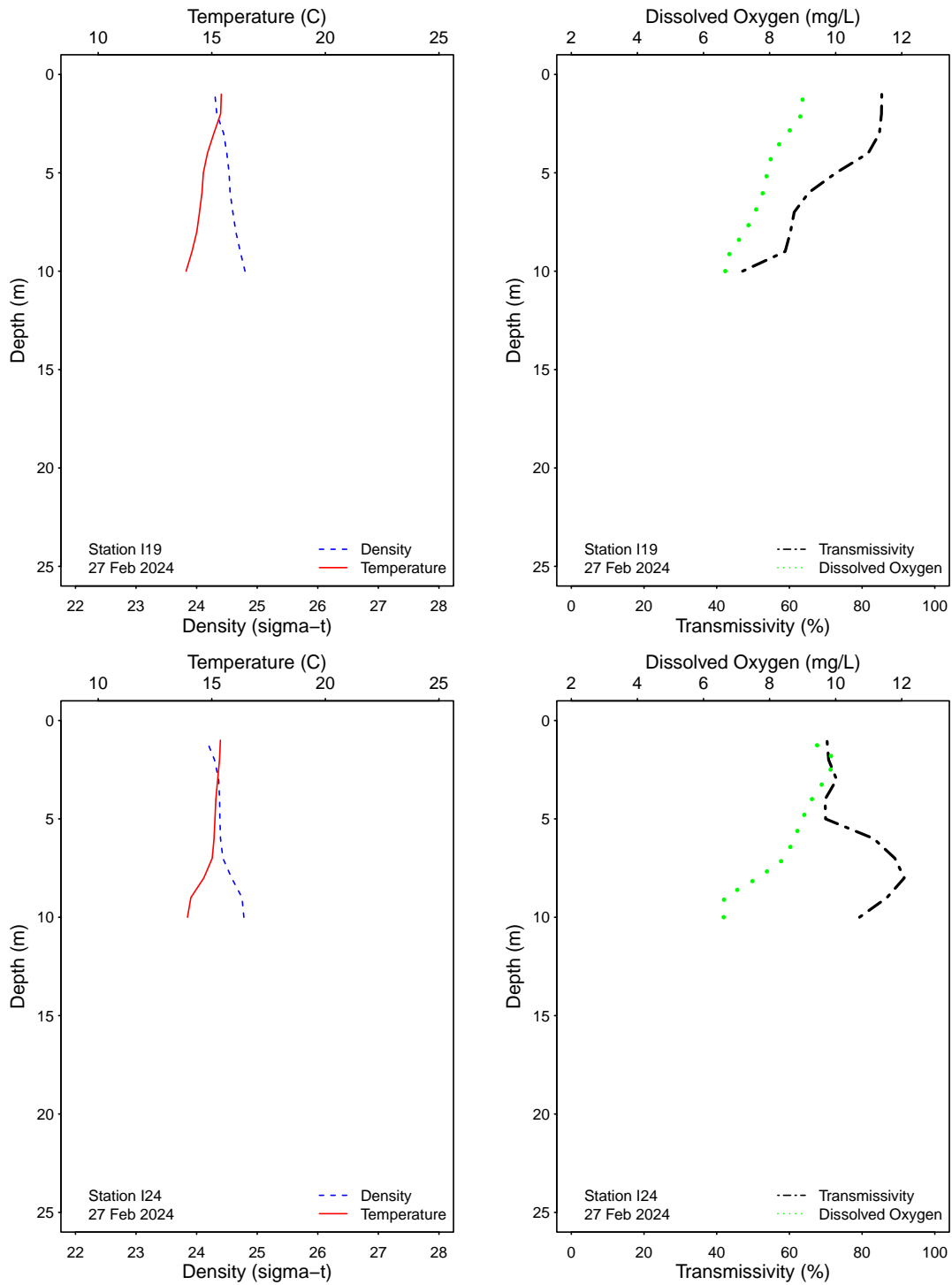


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

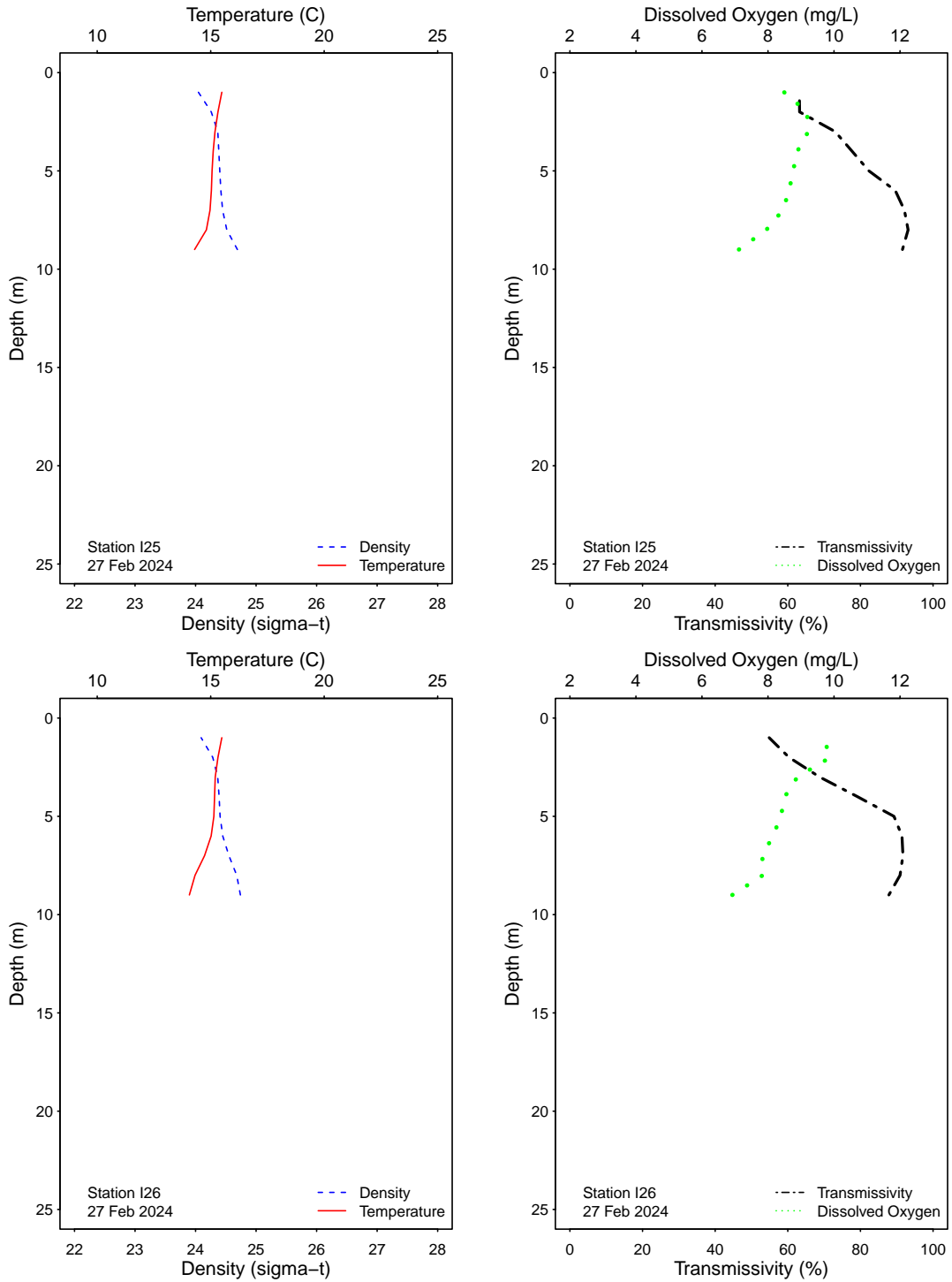


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

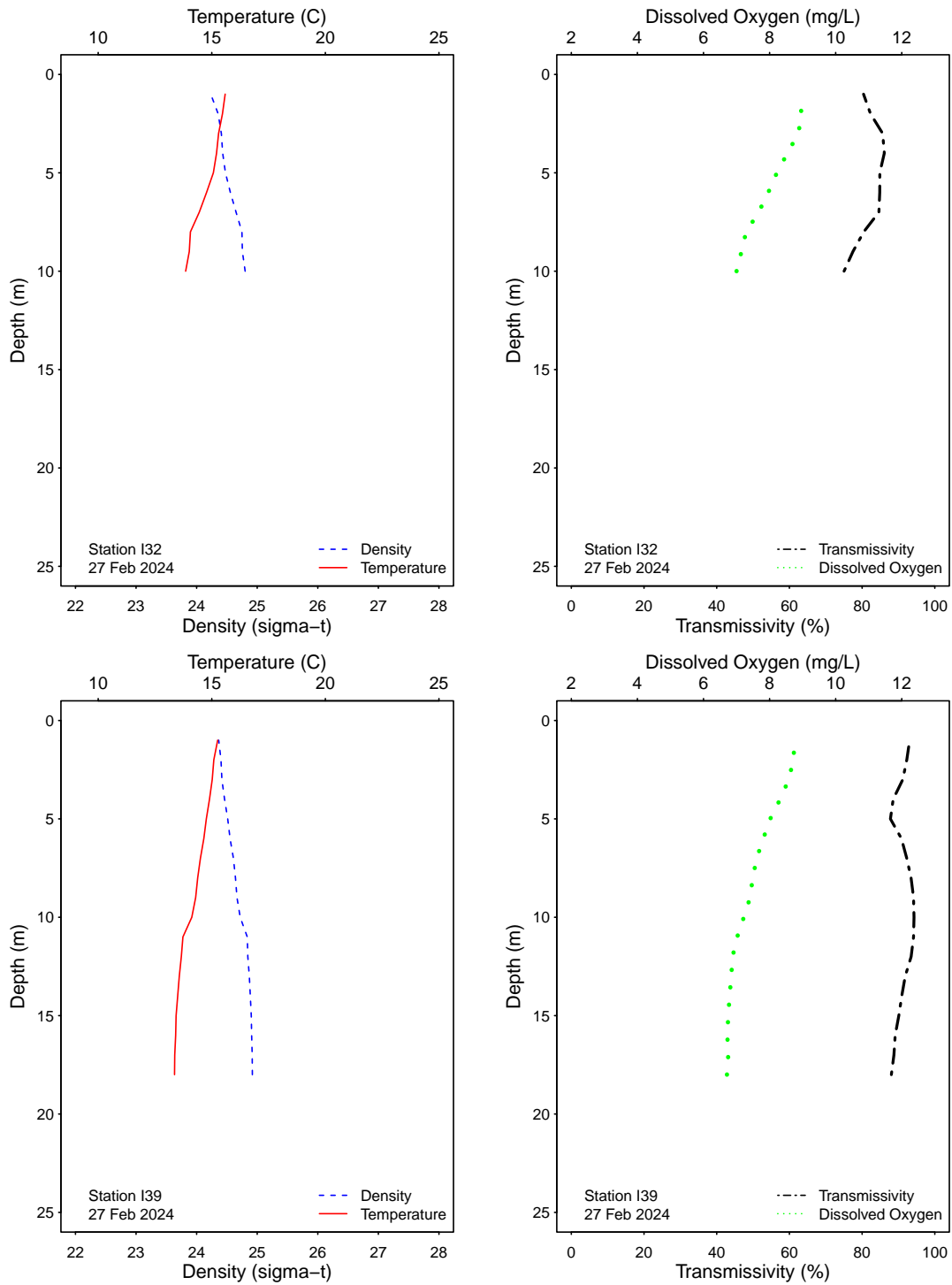


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

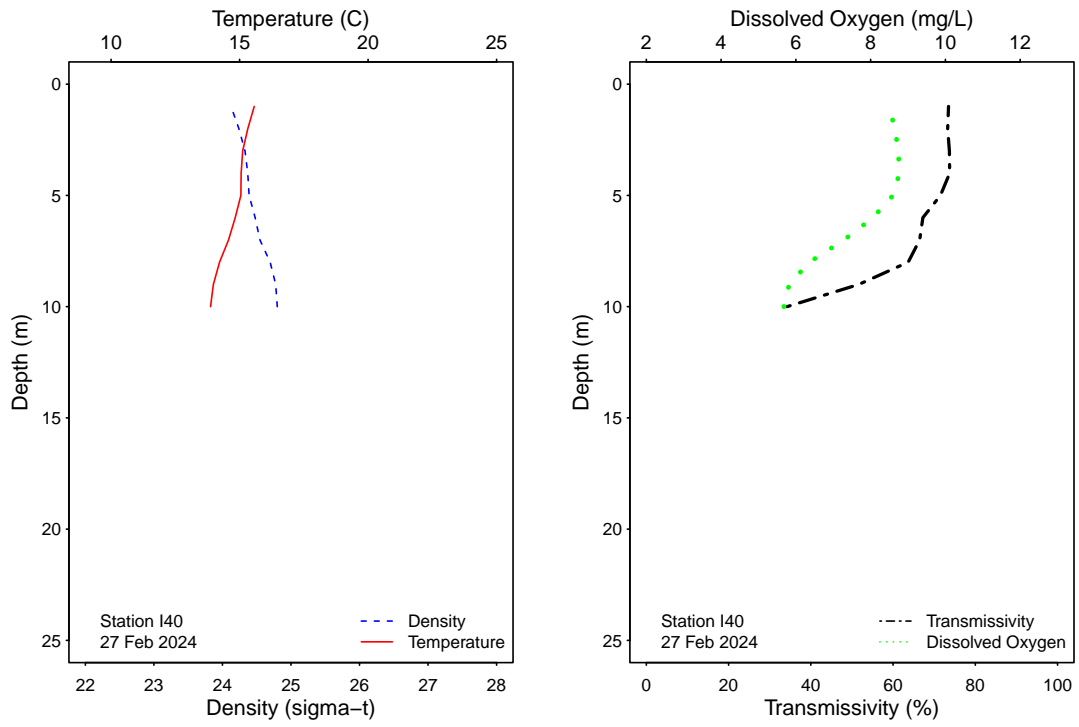


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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Offshore Stations

Table 4.1

Summary of compliance at the SBOO offshore 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	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
23 Feb 2024	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
24 Feb 2024	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

Summary of compliance at the SBOO offshore 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	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
February	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.3

Summary of compliance at the SBOO offshore 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	I12		I14		I16		I18		I22		I23		I33		I36		I37		I38	
	2m	18m	2m	18m	2m	18m	2m	12m	2m	18m	2m	12m	2m	18m	2m	6m	11m	2m	6m	11m
February	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

C = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

Summary of water quality parameters at the SBOO offshore 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
I12	23 Feb 2024	1020	2	<2	<2	<2
I12	23 Feb 2024	1020	18	78	12e	4e
I12	23 Feb 2024	1020	27	2e	<2	2e
I14	23 Feb 2024	1103	2	<2	<2	<2
I14	23 Feb 2024	1103	18	<2	<2	<2
I14	23 Feb 2024	1103	27	12e	2e	4e
I16	23 Feb 2024	1013	2	<2	<2	<2
I16	23 Feb 2024	1013	18	<2	<2	<2
I16	23 Feb 2024	1013	27	500	12e	16e
I18	23 Feb 2024	949	2	<2	<2	<2
I18	23 Feb 2024	949	12	<2	<2	<2
I18	23 Feb 2024	949	18	<2	<2	2e
I22	23 Feb 2024	924	2	<2	<2	<2
I22	23 Feb 2024	924	18	<2	<2	<2
I22	23 Feb 2024	924	27	4e	<2	8e
I23	23 Feb 2024	936	2	<2	<2	<2
I23	23 Feb 2024	936	12	<2	<2	<2
I23	23 Feb 2024	936	18	26e	2e	6e
I33	24 Feb 2024	809	2	<2	<2	<2
I33	24 Feb 2024	809	18	2e	<2	<2
I33	24 Feb 2024	809	27	<2	<2	<2
I36	24 Feb 2024	935	2	<20	2e	14e
I36	24 Feb 2024	935	6	6e	<2	14e
I36	24 Feb 2024	935	11	20e	2e	36e
I37	24 Feb 2024	739	2	2e	<2	<2
I37	24 Feb 2024	739	6	<2	<2	<2
I37	24 Feb 2024	739	11	2e	<2	2e
I38	24 Feb 2024	1002	2	2e	<2	<2
I38	24 Feb 2024	1002	6	8e	<2	2e
I38	24 Feb 2024	1002	11	6e	2e	10e

ns = not sampled

ND = no data

Table 4.5

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

Station	Date	Parameter	Value
I12	23 Feb 2024	Depth (m)	29
I12	23 Feb 2024	Arrive Time	1020
I12	23 Feb 2024	Depart Time	1024
I12	23 Feb 2024	Air Temp (C)	16.0
I12	23 Feb 2024	Weather	Partly Cloudy
I12	23 Feb 2024	Visibility (mi)	10
I12	23 Feb 2024	Wind Speed (kts)	7.7
I12	23 Feb 2024	Wind Dir	N
I12	23 Feb 2024	Water Color	Blueish-Green
I12	23 Feb 2024	Wave Height Low (ft)	4
I12	23 Feb 2024	Wave Period (sec)	12
I12	23 Feb 2024	Sea State	Calm
I12	23 Feb 2024	High Tide (ft)	5.52
I12	23 Feb 2024	High Tide Time	812
I12	23 Feb 2024	Low Tide (ft)	-0.66
I12	23 Feb 2024	Low Tide Time	1500
I12	23 Feb 2024	Comments	OA 1m Btl# Nsk# ;OA 26m Btl# Nsk# ;OA 26m-dup Btl# Nsk# ;
I14	23 Feb 2024	Depth (m)	30
I14	23 Feb 2024	Arrive Time	1103
I14	23 Feb 2024	Depart Time	1107
I14	23 Feb 2024	Air Temp (C)	15.5
I14	23 Feb 2024	Weather	Partly Cloudy
I14	23 Feb 2024	Visibility (mi)	10
I14	23 Feb 2024	Wind Speed (kts)	7.3
I14	23 Feb 2024	Wind Dir	N
I14	23 Feb 2024	Water Color	Blueish-Green
I14	23 Feb 2024	Wave Height Low (ft)	4
I14	23 Feb 2024	Wave Period (sec)	12
I14	23 Feb 2024	Sea State	Calm
I14	23 Feb 2024	High Tide (ft)	5.52
I14	23 Feb 2024	High Tide Time	812
I14	23 Feb 2024	Low Tide (ft)	-0.66
I14	23 Feb 2024	Low Tide Time	1500
I14	23 Feb 2024	Comments	
I16	23 Feb 2024	Depth (m)	28
I16	23 Feb 2024	Arrive Time	1013
I16	23 Feb 2024	Depart Time	1017
I16	23 Feb 2024	Air Temp (C)	15.5
I16	23 Feb 2024	Weather	Partly Cloudy
I16	23 Feb 2024	Visibility (mi)	10
I16	23 Feb 2024	Wind Speed (kts)	6.9
I16	23 Feb 2024	Wind Dir	N
I16	23 Feb 2024	Water Color	Blueish-Green
I16	23 Feb 2024	Wave Height Low (ft)	4
I16	23 Feb 2024	Wave Period (sec)	12
I16	23 Feb 2024	Sea State	Calm
I16	23 Feb 2024	High Tide (ft)	5.52
I16	23 Feb 2024	High Tide Time	812
I16	23 Feb 2024	Low Tide (ft)	-0.66
I16	23 Feb 2024	Low Tide Time	1500
I16	23 Feb 2024	Comments	
I17	23 Feb 2024	Depth (m)	26

Station	Date	Parameter	Value
I17	23 Feb 2024	Arrive Time	1005
I17	23 Feb 2024	Depart Time	1009
I17	23 Feb 2024	Air Temp (C)	15.5
I17	23 Feb 2024	Weather	Partly Cloudy
I17	23 Feb 2024	Visibility (mi)	10
I17	23 Feb 2024	Wind Speed (kts)	6.0
I17	23 Feb 2024	Wind Dir	NW
I17	23 Feb 2024	Water Color	Blueish-Green
I17	23 Feb 2024	Wave Height Low (ft)	4
I17	23 Feb 2024	Wave Period (sec)	12
I17	23 Feb 2024	Sea State	Calm
I17	23 Feb 2024	High Tide (ft)	5.52
I17	23 Feb 2024	High Tide Time	812
I17	23 Feb 2024	Low Tide (ft)	-0.66
I17	23 Feb 2024	Low Tide Time	1500
I17	23 Feb 2024	Comments	Sportfishing boat near station
I18	23 Feb 2024	Depth (m)	21
I18	23 Feb 2024	Arrive Time	949
I18	23 Feb 2024	Depart Time	953
I18	23 Feb 2024	Air Temp (C)	17.2
I18	23 Feb 2024	Weather	Partly Cloudy
I18	23 Feb 2024	Visibility (mi)	10
I18	23 Feb 2024	Wind Speed (kts)	5.2
I18	23 Feb 2024	Wind Dir	NW
I18	23 Feb 2024	Water Color	Blueish-Green
I18	23 Feb 2024	Wave Height Low (ft)	4
I18	23 Feb 2024	Wave Period (sec)	12
I18	23 Feb 2024	Sea State	Calm
I18	23 Feb 2024	High Tide (ft)	5.52
I18	23 Feb 2024	High Tide Time	812
I18	23 Feb 2024	Low Tide (ft)	-0.66
I18	23 Feb 2024	Low Tide Time	1500
I18	23 Feb 2024	Comments	
I22	23 Feb 2024	Depth (m)	29
I22	23 Feb 2024	Arrive Time	924
I22	23 Feb 2024	Depart Time	927
I22	23 Feb 2024	Air Temp (C)	16.0
I22	23 Feb 2024	Weather	Partly Cloudy
I22	23 Feb 2024	Visibility (mi)	10
I22	23 Feb 2024	Wind Speed (kts)	4.7
I22	23 Feb 2024	Wind Dir	N
I22	23 Feb 2024	Water Color	Blueish-Green
I22	23 Feb 2024	Wave Height Low (ft)	4
I22	23 Feb 2024	Wave Period (sec)	12
I22	23 Feb 2024	Sea State	Calm
I22	23 Feb 2024	High Tide (ft)	5.52
I22	23 Feb 2024	High Tide Time	812
I22	23 Feb 2024	Low Tide (ft)	-0.66
I22	23 Feb 2024	Low Tide Time	1500
I22	23 Feb 2024	Comments	
I23	23 Feb 2024	Depth (m)	21
I23	23 Feb 2024	Arrive Time	936
I23	23 Feb 2024	Depart Time	939
I23	23 Feb 2024	Air Temp (C)	16.5
I23	23 Feb 2024	Weather	Partly Cloudy
I23	23 Feb 2024	Visibility (mi)	10
I23	23 Feb 2024	Wind Speed (kts)	6.5
I23	23 Feb 2024	Wind Dir	N

Station	Date	Parameter	Value
I23	23 Feb 2024	Water Color	Blueish-Green
I23	23 Feb 2024	Wave Height Low (ft)	4
I23	23 Feb 2024	Wave Period (sec)	12
I23	23 Feb 2024	Sea State	Calm
I23	23 Feb 2024	High Tide (ft)	5.52
I23	23 Feb 2024	High Tide Time	812
I23	23 Feb 2024	Low Tide (ft)	-0.66
I23	23 Feb 2024	Low Tide Time	1500
I23	23 Feb 2024	Comments	
I27	23 Feb 2024	Depth (m)	29
I27	23 Feb 2024	Arrive Time	911
I27	23 Feb 2024	Depart Time	915
I27	23 Feb 2024	Air Temp (C)	14.8
I27	23 Feb 2024	Weather	Partly Cloudy
I27	23 Feb 2024	Visibility (mi)	10
I27	23 Feb 2024	Wind Speed (kts)	8.7
I27	23 Feb 2024	Wind Dir	N
I27	23 Feb 2024	Water Color	Blueish-Green
I27	23 Feb 2024	Wave Height Low (ft)	4
I27	23 Feb 2024	Wave Period (sec)	12
I27	23 Feb 2024	Sea State	Calm
I27	23 Feb 2024	High Tide (ft)	5.52
I27	23 Feb 2024	High Tide Time	812
I27	23 Feb 2024	Low Tide (ft)	-0.66
I27	23 Feb 2024	Low Tide Time	1500
I27	23 Feb 2024	Comments	
I31	24 Feb 2024	Depth (m)	19
I31	24 Feb 2024	Arrive Time	916
I31	24 Feb 2024	Depart Time	920
I31	24 Feb 2024	Air Temp (C)	15.8
I31	24 Feb 2024	Weather	Partly Cloudy
I31	24 Feb 2024	Visibility (mi)	12
I31	24 Feb 2024	Wind Speed (kts)	2.3
I31	24 Feb 2024	Wind Dir	N
I31	24 Feb 2024	Water Color	Blueish-Green
I31	24 Feb 2024	Wave Height Low (ft)	3
I31	24 Feb 2024	Wave Period (sec)	13
I31	24 Feb 2024	Sea State	Calm
I31	24 Feb 2024	High Tide (ft)	5.4
I31	24 Feb 2024	High Tide Time	836
I31	24 Feb 2024	Low Tide (ft)	-0.47
I31	24 Feb 2024	Low Tide Time	1524
I31	24 Feb 2024	Comments	dolphin on station
I33	24 Feb 2024	Depth (m)	30
I33	24 Feb 2024	Arrive Time	809
I33	24 Feb 2024	Depart Time	816
I33	24 Feb 2024	Air Temp (C)	15.5
I33	24 Feb 2024	Weather	Partly Cloudy
I33	24 Feb 2024	Visibility (mi)	12
I33	24 Feb 2024	Wind Speed (kts)	7.5
I33	24 Feb 2024	Wind Dir	SW
I33	24 Feb 2024	Water Color	Green
I33	24 Feb 2024	Wave Height Low (ft)	3
I33	24 Feb 2024	Wave Period (sec)	13
I33	24 Feb 2024	Sea State	Calm
I33	24 Feb 2024	High Tide (ft)	5.4
I33	24 Feb 2024	High Tide Time	836
I33	24 Feb 2024	Low Tide (ft)	-0.47

Station	Date	Parameter	Value
I33	24 Feb 2024	Low Tide Time	1524
I33	24 Feb 2024	Comments	
I34	24 Feb 2024	Depth (m)	21
I34	24 Feb 2024	Arrive Time	759
I34	24 Feb 2024	Depart Time	803
I34	24 Feb 2024	Air Temp (C)	15.4
I34	24 Feb 2024	Weather	Partly Cloudy
I34	24 Feb 2024	Visibility (mi)	12
I34	24 Feb 2024	Wind Speed (kts)	3.8
I34	24 Feb 2024	Wind Dir	SW
I34	24 Feb 2024	Water Color	Green
I34	24 Feb 2024	Wave Height Low (ft)	3
I34	24 Feb 2024	Wave Period (sec)	13
I34	24 Feb 2024	Sea State	Calm
I34	24 Feb 2024	High Tide (ft)	5.4
I34	24 Feb 2024	High Tide Time	836
I34	24 Feb 2024	Low Tide (ft)	-0.47
I34	24 Feb 2024	Low Tide Time	1524
I34	24 Feb 2024	Comments	
I35	24 Feb 2024	Depth (m)	20
I35	24 Feb 2024	Arrive Time	949
I35	24 Feb 2024	Depart Time	953
I35	24 Feb 2024	Air Temp (C)	16.2
I35	24 Feb 2024	Weather	Partly Cloudy
I35	24 Feb 2024	Visibility (mi)	12
I35	24 Feb 2024	Wind Speed (kts)	1.2
I35	24 Feb 2024	Wind Dir	E
I35	24 Feb 2024	Water Color	Green
I35	24 Feb 2024	Wave Height Low (ft)	3
I35	24 Feb 2024	Wave Period (sec)	13
I35	24 Feb 2024	Sea State	Calm
I35	24 Feb 2024	High Tide (ft)	5.4
I35	24 Feb 2024	High Tide Time	836
I35	24 Feb 2024	Low Tide (ft)	-0.47
I35	24 Feb 2024	Low Tide Time	1524
I35	24 Feb 2024	Comments	
I36	24 Feb 2024	Depth (m)	13
I36	24 Feb 2024	Arrive Time	935
I36	24 Feb 2024	Depart Time	939
I36	24 Feb 2024	Air Temp (C)	16
I36	24 Feb 2024	Weather	Partly Cloudy
I36	24 Feb 2024	Visibility (mi)	12
I36	24 Feb 2024	Wind Speed (kts)	1.1
I36	24 Feb 2024	Wind Dir	N
I36	24 Feb 2024	Water Color	Brown
I36	24 Feb 2024	Wave Height Low (ft)	3
I36	24 Feb 2024	Wave Period (sec)	13
I36	24 Feb 2024	Sea State	Calm
I36	24 Feb 2024	High Tide (ft)	5.4
I36	24 Feb 2024	High Tide Time	836
I36	24 Feb 2024	Low Tide (ft)	-0.47
I36	24 Feb 2024	Low Tide Time	1524
I36	24 Feb 2024	Comments	
I37	24 Feb 2024	Depth (m)	13
I37	24 Feb 2024	Arrive Time	739
I37	24 Feb 2024	Depart Time	751
I37	24 Feb 2024	Air Temp (C)	15.4

Station	Date	Parameter	Value
I37	24 Feb 2024	Weather	Partly Cloudy
I37	24 Feb 2024	Visibility (mi)	12
I37	24 Feb 2024	Wind Speed (kts)	1.6
I37	24 Feb 2024	Wind Dir	N
I37	24 Feb 2024	Water Color	Green
I37	24 Feb 2024	Wave Height Low (ft)	3
I37	24 Feb 2024	Wave Period (sec)	13
I37	24 Feb 2024	Sea State	Calm
I37	24 Feb 2024	High Tide (ft)	5.4
I37	24 Feb 2024	High Tide Time	836
I37	24 Feb 2024	Low Tide (ft)	-0.47
I37	24 Feb 2024	Low Tide Time	1524
I37	24 Feb 2024	Comments	
I38	24 Feb 2024	Depth (m)	12
I38	24 Feb 2024	Arrive Time	1002
I38	24 Feb 2024	Depart Time	1009
I38	24 Feb 2024	Air Temp (C)	16.2
I38	24 Feb 2024	Weather	Partly Cloudy
I38	24 Feb 2024	Visibility (mi)	12
I38	24 Feb 2024	Wind Speed (kts)	5.8
I38	24 Feb 2024	Wind Dir	NW
I38	24 Feb 2024	Water Color	Green
I38	24 Feb 2024	Wave Height Low (ft)	3
I38	24 Feb 2024	Wave Period (sec)	13
I38	24 Feb 2024	Sea State	Calm
I38	24 Feb 2024	High Tide (ft)	5.4
I38	24 Feb 2024	High Tide Time	836
I38	24 Feb 2024	Low Tide (ft)	-0.47
I38	24 Feb 2024	Low Tide Time	1524
I38	24 Feb 2024	Comments	

Table 4.6

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I12	23 Feb 2024	1	15.51	97.27	8.1	33.02	8.2	24.3	0.10
I12	23 Feb 2024	2	15.46	97.29	8.1	33.02	8.2	24.3	0.10
I12	23 Feb 2024	3	15.38	97.38	8.1	33.02	8.2	24.4	0.10
I12	23 Feb 2024	4	15.36	97.27	8.1	33.02	8.2	24.4	0.11
I12	23 Feb 2024	5	15.36	97.29	8.1	33.02	8.2	24.4	0.12
I12	23 Feb 2024	6	15.35	97.29	8.1	33.02	8.2	24.4	0.14
I12	23 Feb 2024	7	15.34	97.27	8.1	33.02	8.2	24.4	0.13
I12	23 Feb 2024	8	15.34	97.29	8.1	33.02	8.2	24.4	0.15
I12	23 Feb 2024	9	15.33	97.27	8.1	33.02	8.2	24.4	0.17
I12	23 Feb 2024	10	15.32	97.30	8.1	33.02	8.2	24.4	0.16
I12	23 Feb 2024	11	15.30	97.30	8.1	33.03	8.2	24.4	0.19
I12	23 Feb 2024	12	15.28	97.30	8.1	33.03	8.2	24.4	0.20
I12	23 Feb 2024	13	15.28	97.37	8.1	33.03	8.2	24.4	0.21
I12	23 Feb 2024	14	15.25	97.38	8.1	33.04	8.2	24.4	0.22
I12	23 Feb 2024	15	15.18	97.39	8.1	33.05	8.2	24.4	0.25
I12	23 Feb 2024	16	15.15	97.28	8.0	33.05	8.2	24.4	0.33
I12	23 Feb 2024	17	14.84	96.77	8.0	33.08	8.2	24.5	0.58
I12	23 Feb 2024	18	14.51	96.03	7.8	33.11	8.2	24.6	0.90
I12	23 Feb 2024	19	14.29	95.17	7.7	33.12	8.2	24.7	1.18
I12	23 Feb 2024	20	14.10	93.43	7.6	33.14	8.1	24.7	1.38
I12	23 Feb 2024	21	14.05	92.71	7.6	33.14	8.1	24.7	1.56
I12	23 Feb 2024	22	14.00	92.22	7.5	33.14	8.1	24.8	1.67
I12	23 Feb 2024	23	13.96	91.57	7.5	33.15	8.1	24.8	1.82
I12	23 Feb 2024	24	13.95	91.41	7.5	33.15	8.1	24.8	1.96
I12	23 Feb 2024	25	13.90	91.32	7.3	33.16	8.1	24.8	2.03
I12	23 Feb 2024	26	13.75	90.40	7.1	33.18	8.1	24.8	2.06
I12	23 Feb 2024	27	13.63	87.77	6.9	33.20	8.1	24.9	2.05
I12	23 Feb 2024	28	13.55	84.53	6.8	33.22	8.1	24.9	1.92
I14	23 Feb 2024	1	15.50	97.06	8.1	33.01	8.2	24.3	0.10
I14	23 Feb 2024	2	15.43	96.95	8.1	33.02	8.2	24.3	0.10
I14	23 Feb 2024	3	15.38	97.25	8.1	33.02	8.2	24.4	0.11
I14	23 Feb 2024	4	15.33	97.24	8.1	33.02	8.2	24.4	0.12
I14	23 Feb 2024	5	15.31	97.27	8.1	33.03	8.2	24.4	0.12
I14	23 Feb 2024	6	15.30	97.34	8.1	33.03	8.2	24.4	0.13
I14	23 Feb 2024	7	15.29	97.43	8.1	33.04	8.2	24.4	0.13
I14	23 Feb 2024	8	15.26	97.52	8.1	33.05	8.2	24.4	0.14
I14	23 Feb 2024	9	15.23	97.56	8.1	33.06	8.2	24.4	0.14
I14	23 Feb 2024	10	15.18	97.63	8.1	33.06	8.2	24.4	0.15
I14	23 Feb 2024	11	15.16	97.67	8.1	33.07	8.2	24.4	0.16
I14	23 Feb 2024	12	15.11	97.61	8.1	33.07	8.2	24.5	0.19
I14	23 Feb 2024	13	15.00	97.43	8.1	33.09	8.2	24.5	0.28
I14	23 Feb 2024	14	14.85	97.00	8.1	33.10	8.2	24.5	0.44
I14	23 Feb 2024	15	14.79	96.13	8.1	33.10	8.2	24.6	0.63
I14	23 Feb 2024	16	14.67	95.40	8.0	33.11	8.2	24.6	0.80
I14	23 Feb 2024	17	14.49	94.86	7.9	33.12	8.2	24.6	0.99
I14	23 Feb 2024	18	14.41	94.37	7.9	33.13	8.2	24.7	1.17
I14	23 Feb 2024	19	14.33	94.19	7.8	33.13	8.2	24.7	1.29
I14	23 Feb 2024	20	14.25	94.20	7.8	33.14	8.2	24.7	1.36
I14	23 Feb 2024	21	14.11	94.30	7.7	33.14	8.1	24.7	1.44
I14	23 Feb 2024	22	13.95	94.35	7.5	33.15	8.1	24.8	1.44
I14	23 Feb 2024	23	13.84	94.10	7.4	33.16	8.1	24.8	1.50
I14	23 Feb 2024	24	13.79	92.43	7.3	33.17	8.1	24.8	1.67
I14	23 Feb 2024	25	13.72	90.27	7.0	33.19	8.1	24.8	1.79
I14	23 Feb 2024	26	13.60	87.49	6.8	33.21	8.1	24.9	1.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I14	23 Feb 2024	27	13.54	80.29	6.6	33.22	8.1	24.9	1.95
I14	23 Feb 2024	28	13.53	76.77	6.6	33.23	8.0	24.9	1.98
I16	23 Feb 2024	1	15.46	97.17	8.1	33.01	8.2	24.3	0.11
I16	23 Feb 2024	2	15.44	97.15	8.1	33.01	8.2	24.3	0.11
I16	23 Feb 2024	3	15.36	97.18	8.1	33.01	8.2	24.4	0.11
I16	23 Feb 2024	4	15.35	97.29	8.1	33.01	8.2	24.4	0.12
I16	23 Feb 2024	5	15.34	97.34	8.1	33.01	8.2	24.4	0.13
I16	23 Feb 2024	6	15.33	97.34	8.1	33.02	8.2	24.4	0.13
I16	23 Feb 2024	7	15.32	97.33	8.1	33.02	8.2	24.4	0.14
I16	23 Feb 2024	8	15.31	97.37	8.1	33.03	8.2	24.4	0.15
I16	23 Feb 2024	9	15.29	97.21	8.1	33.03	8.2	24.4	0.17
I16	23 Feb 2024	10	15.28	97.36	8.1	33.04	8.2	24.4	0.18
I16	23 Feb 2024	11	15.25	97.38	8.1	33.04	8.2	24.4	0.20
I16	23 Feb 2024	12	15.23	97.47	8.1	33.05	8.2	24.4	0.19
I16	23 Feb 2024	13	15.20	97.56	8.1	33.05	8.2	24.4	0.21
I16	23 Feb 2024	14	15.11	97.58	8.0	33.06	8.2	24.5	0.30
I16	23 Feb 2024	15	14.89	97.13	8.0	33.08	8.2	24.5	0.50
I16	23 Feb 2024	16	14.73	96.18	8.0	33.09	8.2	24.6	0.78
I16	23 Feb 2024	17	14.33	95.25	7.8	33.13	8.2	24.7	1.09
I16	23 Feb 2024	18	14.25	93.94	7.7	33.13	8.1	24.7	1.30
I16	23 Feb 2024	19	14.06	93.87	7.6	33.14	8.1	24.7	1.41
I16	23 Feb 2024	20	13.89	93.47	7.4	33.15	8.1	24.8	1.48
I16	23 Feb 2024	21	13.87	92.68	7.4	33.16	8.1	24.8	1.58
I16	23 Feb 2024	22	13.86	91.97	7.3	33.16	8.1	24.8	1.69
I16	23 Feb 2024	23	13.77	91.89	7.1	33.13	8.1	24.8	1.83
I16	23 Feb 2024	24	13.59	88.58	6.8	33.13	8.1	24.8	1.83
I16	23 Feb 2024	25	13.54	78.84	6.7	33.16	8.1	24.9	1.89
I16	23 Feb 2024	26	13.49	76.79	7.2	33.19	8.0	24.9	1.82
I16	23 Feb 2024	27	13.48	74.32	6.4	33.20	8.0	24.9	1.79
I16	23 Feb 2024	28	13.48	74.46	6.5	33.19	8.0	24.9	1.69
I17	23 Feb 2024	1	15.42	97.39	8.1	33.01	8.2	24.3	0.14
I17	23 Feb 2024	2	15.39	97.25	8.1	33.01	8.2	24.4	0.14
I17	23 Feb 2024	3	15.35	97.34	8.1	33.01	8.2	24.4	0.15
I17	23 Feb 2024	4	15.34	97.35	8.1	33.01	8.2	24.4	0.15
I17	23 Feb 2024	5	15.33	97.20	8.0	33.02	8.2	24.4	0.16
I17	23 Feb 2024	6	15.32	95.62	8.1	33.02	8.2	24.4	0.17
I17	23 Feb 2024	7	15.33	97.26	8.1	33.02	8.2	24.4	0.17
I17	23 Feb 2024	8	15.30	97.22	8.0	33.03	8.2	24.4	0.19
I17	23 Feb 2024	9	15.28	97.32	8.1	33.03	8.2	24.4	0.19
I17	23 Feb 2024	10	15.27	97.40	8.1	33.03	8.2	24.4	0.20
I17	23 Feb 2024	11	15.23	97.38	8.1	33.04	8.2	24.4	0.22
I17	23 Feb 2024	12	15.22	97.31	8.1	33.04	8.2	24.4	0.24
I17	23 Feb 2024	13	15.13	97.35	8.0	33.05	8.2	24.4	0.28
I17	23 Feb 2024	14	14.84	97.11	8.1	33.08	8.2	24.5	0.58
I17	23 Feb 2024	15	14.76	95.92	7.9	33.09	8.2	24.5	0.78
I17	23 Feb 2024	16	14.25	94.22	7.8	33.13	8.2	24.7	1.11
I17	23 Feb 2024	17	14.18	93.34	7.7	33.13	8.1	24.7	1.37
I17	23 Feb 2024	18	14.12	92.93	7.6	33.14	8.1	24.7	1.53
I17	23 Feb 2024	19	14.04	92.42	7.6	33.14	8.1	24.7	1.67
I17	23 Feb 2024	20	14.06	91.92	7.5	33.14	8.1	24.7	1.74
I17	23 Feb 2024	21	14.00	91.73	7.5	33.15	8.1	24.8	1.83
I17	23 Feb 2024	22	13.98	91.47	7.3	33.15	8.1	24.8	1.94
I17	23 Feb 2024	23	13.64	85.02	6.9	33.21	8.1	24.9	1.93
I17	23 Feb 2024	24	13.55	75.71	6.7	33.22	8.1	24.9	1.92
I17	23 Feb 2024	25	13.54	73.98	6.7	33.22	8.1	24.9	1.92
I18	23 Feb 2024	1	15.33	91.82	8.0	32.97	8.2	24.3	0.45
I18	23 Feb 2024	2	15.31	91.70	8.0	32.97	8.2	24.3	0.50
I18	23 Feb 2024	3	15.29	91.65	8.0	32.98	8.2	24.3	0.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I18	23 Feb 2024	4	15.29	91.74	8.1	32.98	8.2	24.4	0.54
I18	23 Feb 2024	5	15.29	92.18	8.1	32.98	8.2	24.4	0.56
I18	23 Feb 2024	6	15.29	92.36	8.1	32.98	8.2	24.4	0.60
I18	23 Feb 2024	7	15.30	92.59	8.1	32.99	8.2	24.4	0.63
I18	23 Feb 2024	8	15.31	93.19	8.1	33.00	8.2	24.4	0.60
I18	23 Feb 2024	9	15.28	94.53	8.1	33.04	8.2	24.4	0.58
I18	23 Feb 2024	10	15.27	95.82	8.1	33.04	8.2	24.4	0.58
I18	23 Feb 2024	11	15.20	96.26	8.0	33.05	8.2	24.4	0.61
I18	23 Feb 2024	12	15.13	96.39	8.0	33.05	8.2	24.4	0.71
I18	23 Feb 2024	13	15.11	95.99	8.0	33.05	8.2	24.4	0.81
I18	23 Feb 2024	14	15.08	95.18	7.9	33.05	8.2	24.5	0.93
I18	23 Feb 2024	15	15.02	94.37	7.8	33.05	8.2	24.5	1.04
I18	23 Feb 2024	16	14.89	93.15	7.7	33.06	8.2	24.5	1.13
I18	23 Feb 2024	17	14.64	90.92	7.6	33.10	8.1	24.6	1.27
I18	23 Feb 2024	18	14.41	88.79	7.6	33.12	8.1	24.6	1.58
I18	23 Feb 2024	19	14.05	89.44	7.2	33.16	8.1	24.8	1.86
I22	23 Feb 2024	1	15.35	96.49	8.1	33.01	8.2	24.4	0.14
I22	23 Feb 2024	2	15.34	96.50	8.1	33.01	8.2	24.4	0.14
I22	23 Feb 2024	3	15.33	96.55	8.1	33.01	8.2	24.4	0.15
I22	23 Feb 2024	4	15.33	95.89	8.1	33.01	8.2	24.4	0.15
I22	23 Feb 2024	5	15.32	94.04	8.1	33.01	8.2	24.4	0.15
I22	23 Feb 2024	6	15.32	96.71	8.1	33.02	8.2	24.4	0.16
I22	23 Feb 2024	7	15.31	96.94	8.1	33.02	8.2	24.4	0.16
I22	23 Feb 2024	8	15.30	97.03	8.1	33.03	8.2	24.4	0.17
I22	23 Feb 2024	9	15.27	97.20	8.1	33.04	8.2	24.4	0.17
I22	23 Feb 2024	10	15.26	97.36	8.1	33.04	8.2	24.4	0.18
I22	23 Feb 2024	11	15.23	97.35	8.1	33.05	8.2	24.4	0.19
I22	23 Feb 2024	12	15.20	97.40	8.1	33.06	8.2	24.4	0.21
I22	23 Feb 2024	13	15.16	97.46	8.0	33.06	8.2	24.4	0.23
I22	23 Feb 2024	14	14.94	97.42	8.0	33.08	8.2	24.5	0.42
I22	23 Feb 2024	15	14.55	96.04	7.9	33.11	8.2	24.6	0.83
I22	23 Feb 2024	16	14.21	94.59	7.8	33.14	8.2	24.7	1.08
I22	23 Feb 2024	17	14.06	94.41	7.6	33.14	8.1	24.7	1.17
I22	23 Feb 2024	18	14.01	94.48	7.6	33.14	8.1	24.7	1.23
I22	23 Feb 2024	19	13.93	94.55	7.5	33.14	8.1	24.8	1.31
I22	23 Feb 2024	20	13.83	94.40	7.5	33.15	8.1	24.8	1.38
I22	23 Feb 2024	21	13.77	94.16	7.4	33.16	8.1	24.8	1.45
I22	23 Feb 2024	22	13.75	93.20	7.3	33.17	8.1	24.8	1.51
I22	23 Feb 2024	23	13.71	92.46	7.2	33.17	8.1	24.8	1.60
I22	23 Feb 2024	24	13.64	91.52	7.1	33.19	8.1	24.9	1.65
I22	23 Feb 2024	25	13.63	90.71	7.0	33.19	8.1	24.9	1.78
I22	23 Feb 2024	26	13.49	89.11	6.6	33.23	8.1	24.9	1.85
I22	23 Feb 2024	27	13.43	83.00	6.3	33.25	8.0	25.0	1.96
I22	23 Feb 2024	28	13.42	71.00	6.2	33.26	8.0	25.0	1.86
I23	23 Feb 2024	1	15.28	95.45	8.1	33.01	8.2	24.4	0.34
I23	23 Feb 2024	2	15.28	95.74	8.1	33.01	8.2	24.4	0.36
I23	23 Feb 2024	3	15.26	95.91	8.1	33.01	8.2	24.4	0.41
I23	23 Feb 2024	4	15.25	95.70	8.1	33.01	8.2	24.4	0.44
I23	23 Feb 2024	5	15.25	95.95	8.1	33.01	8.2	24.4	0.45
I23	23 Feb 2024	6	15.24	96.05	8.1	33.02	8.2	24.4	0.45
I23	23 Feb 2024	7	15.19	96.14	8.0	33.04	8.2	24.4	0.45
I23	23 Feb 2024	8	14.92	96.47	8.0	33.07	8.2	24.5	0.61
I23	23 Feb 2024	9	14.82	95.73	8.0	33.08	8.2	24.5	0.83
I23	23 Feb 2024	10	14.75	94.90	7.9	33.09	8.2	24.6	1.01
I23	23 Feb 2024	11	14.65	94.10	7.8	33.09	8.2	24.6	1.17
I23	23 Feb 2024	12	14.58	93.61	7.7	33.10	8.1	24.6	1.32
I23	23 Feb 2024	13	14.53	92.57	7.6	33.10	8.1	24.6	1.42
I23	23 Feb 2024	14	14.39	91.18	7.5	33.12	8.1	24.7	1.56
I23	23 Feb 2024	15	14.19	89.57	7.2	33.15	8.1	24.7	1.65

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I23	23 Feb 2024	16	14.04	83.90	7.0	33.18	8.1	24.8	1.72
I23	23 Feb 2024	17	13.98	74.97	6.8	33.19	8.1	24.8	1.74
I23	23 Feb 2024	18	13.94	71.54	6.7	33.19	8.1	24.8	1.77
I23	23 Feb 2024	19	13.92	68.82	6.7	33.20	8.1	24.8	1.76
I23	23 Feb 2024	20	13.88	68.43	6.7	33.20	8.1	24.8	1.75
I23	23 Feb 2024	21	13.84	67.86	6.7	33.20	8.1	24.8	1.74
I27	23 Feb 2024	1	15.26	97.02	8.1	33.01	8.2	24.4	0.16
I27	23 Feb 2024	2	15.25	97.01	8.1	33.01	8.2	24.4	0.16
I27	23 Feb 2024	3	15.25	97.01	8.1	33.01	8.2	24.4	0.17
I27	23 Feb 2024	4	15.24	97.05	8.1	33.01	8.2	24.4	0.18
I27	23 Feb 2024	5	15.23	97.07	8.1	33.02	8.2	24.4	0.19
I27	23 Feb 2024	6	15.19	97.18	8.1	33.04	8.2	24.4	0.19
I27	23 Feb 2024	7	15.15	97.42	8.1	33.06	8.2	24.4	0.22
I27	23 Feb 2024	8	15.13	97.40	8.1	33.07	8.2	24.5	0.24
I27	23 Feb 2024	9	15.09	96.91	8.1	33.08	8.2	24.5	0.25
I27	23 Feb 2024	10	15.08	97.39	8.1	33.08	8.2	24.5	0.28
I27	23 Feb 2024	11	15.04	97.48	8.1	33.09	8.2	24.5	0.32
I27	23 Feb 2024	12	14.85	97.34	8.1	33.10	8.2	24.5	0.44
I27	23 Feb 2024	13	14.78	96.41	8.1	33.11	8.2	24.6	0.61
I27	23 Feb 2024	14	14.70	95.70	8.1	33.11	8.2	24.6	0.90
I27	23 Feb 2024	15	14.59	95.19	8.0	33.12	8.2	24.6	1.05
I27	23 Feb 2024	16	14.34	94.56	7.8	33.13	8.2	24.7	1.22
I27	23 Feb 2024	17	14.25	94.63	7.8	33.13	8.2	24.7	1.37
I27	23 Feb 2024	18	14.25	94.88	7.8	33.13	8.1	24.7	1.45
I27	23 Feb 2024	19	14.17	94.94	7.7	33.14	8.1	24.7	1.49
I27	23 Feb 2024	20	14.13	94.97	7.7	33.14	8.1	24.7	1.59
I27	23 Feb 2024	21	14.12	94.96	7.7	33.14	8.1	24.7	1.68
I27	23 Feb 2024	22	14.07	94.87	7.6	33.14	8.1	24.7	1.66
I27	23 Feb 2024	23	13.91	94.89	7.5	33.16	8.1	24.8	1.64
I27	23 Feb 2024	24	13.89	95.00	7.4	33.16	8.1	24.8	1.67
I27	23 Feb 2024	25	13.77	94.73	7.3	33.16	8.1	24.8	1.64
I27	23 Feb 2024	26	13.64	94.32	7.1	33.18	8.1	24.9	1.69
I27	23 Feb 2024	27	13.48	92.00	6.8	33.21	8.1	24.9	1.70
I27	23 Feb 2024	28	13.43	85.70	6.6	33.22	8.1	24.9	1.74
I31	24 Feb 2024	1	15.29	90.87	8.1	33.00	8.2	24.4	0.81
I31	24 Feb 2024	2	15.31	88.20	8.1	32.99	8.2	24.4	0.86
I31	24 Feb 2024	3	15.14	90.38	8.0	33.04	8.2	24.4	0.92
I31	24 Feb 2024	4	14.74	91.21	7.8	33.11	8.2	24.6	0.95
I31	24 Feb 2024	5	14.58	93.13	7.6	33.11	8.1	24.6	0.97
I31	24 Feb 2024	6	14.47	92.98	7.5	33.12	8.1	24.6	0.97
I31	24 Feb 2024	7	14.39	91.57	7.4	33.13	8.1	24.7	1.08
I31	24 Feb 2024	8	14.27	90.32	7.3	33.14	8.1	24.7	1.19
I31	24 Feb 2024	9	14.19	89.08	7.2	33.15	8.1	24.7	1.29
I31	24 Feb 2024	10	14.11	87.44	7.1	33.15	8.1	24.7	1.36
I31	24 Feb 2024	11	13.99	87.24	7.0	33.16	8.1	24.8	1.45
I31	24 Feb 2024	12	13.78	86.85	7.0	33.18	8.1	24.8	1.47
I31	24 Feb 2024	13	13.57	87.21	6.9	33.19	8.1	24.9	1.45
I31	24 Feb 2024	14	13.39	87.78	6.8	33.20	8.1	24.9	1.44
I31	24 Feb 2024	15	13.31	88.12	6.8	33.20	8.0	24.9	1.40
I31	24 Feb 2024	16	13.29	87.99	6.8	33.20	8.0	24.9	1.33
I31	24 Feb 2024	17	13.29	86.94	6.8	33.20	8.0	24.9	1.35
I31	24 Feb 2024	18	13.29	86.26	6.8	33.20	8.0	24.9	1.33
I31	24 Feb 2024	19	13.29	85.72	6.7	33.21	8.0	24.9	1.35
I33	24 Feb 2024	1	15.25	94.02	8.3	32.97	8.2	24.3	0.71
I33	24 Feb 2024	2	15.26	93.94	8.3	32.97	8.2	24.4	0.76
I33	24 Feb 2024	3	15.26	94.17	8.3	32.97	8.2	24.4	0.80
I33	24 Feb 2024	4	15.26	94.28	8.3	32.98	8.2	24.4	0.82
I33	24 Feb 2024	5	15.25	94.47	8.3	32.99	8.2	24.4	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I33	24 Feb 2024	6	15.19	94.55	8.2	33.01	8.2	24.4	1.05
I33	24 Feb 2024	7	15.10	94.55	8.2	33.03	8.2	24.4	1.21
I33	24 Feb 2024	8	15.07	94.28	8.2	33.03	8.2	24.4	1.36
I33	24 Feb 2024	9	15.03	94.16	8.1	33.04	8.2	24.5	1.39
I33	24 Feb 2024	10	14.99	94.03	8.1	33.04	8.2	24.5	1.47
I33	24 Feb 2024	11	14.80	91.77	7.9	33.07	8.2	24.5	1.63
I33	24 Feb 2024	12	14.58	92.98	7.8	33.10	8.1	24.6	1.76
I33	24 Feb 2024	13	14.35	93.54	7.5	33.12	8.1	24.7	1.87
I33	24 Feb 2024	14	14.09	93.45	7.3	33.15	8.1	24.7	1.71
I33	24 Feb 2024	15	13.82	93.70	7.2	33.17	8.1	24.8	1.61
I33	24 Feb 2024	16	13.75	94.11	7.1	33.17	8.1	24.8	1.51
I33	24 Feb 2024	17	13.63	94.59	7.1	33.17	8.1	24.9	1.47
I33	24 Feb 2024	18	13.42	94.73	7.1	33.18	8.1	24.9	1.35
I33	24 Feb 2024	19	13.37	95.49	7.1	33.18	8.1	24.9	1.26
I33	24 Feb 2024	20	13.33	95.80	7.0	33.18	8.1	24.9	1.20
I33	24 Feb 2024	21	13.20	95.87	7.0	33.19	8.1	24.9	1.12
I33	24 Feb 2024	22	13.15	96.12	6.9	33.19	8.1	25.0	1.06
I33	24 Feb 2024	23	13.03	96.30	6.9	33.19	8.0	25.0	0.98
I33	24 Feb 2024	24	12.98	96.33	6.8	33.19	8.0	25.0	0.94
I33	24 Feb 2024	25	12.91	96.65	6.8	33.20	8.0	25.0	0.90
I33	24 Feb 2024	26	12.67	96.68	6.6	33.23	8.0	25.1	0.83
I33	24 Feb 2024	27	12.61	96.71	6.5	33.24	8.0	25.1	0.75
I33	24 Feb 2024	28	12.60	96.35	6.5	33.24	8.0	25.1	0.71
I33	24 Feb 2024	29	12.59	96.04	6.4	33.25	8.0	25.1	0.70
I33	24 Feb 2024	30	12.59	95.75	6.4	33.25	8.0	25.1	0.68
I34	24 Feb 2024	1	15.13	89.68	8.0	32.94	8.1	24.4	0.97
I34	24 Feb 2024	2	15.10	89.55	7.9	32.95	8.1	24.4	1.01
I34	24 Feb 2024	3	14.77	90.08	7.7	33.03	8.1	24.5	1.05
I34	24 Feb 2024	4	14.22	91.09	7.5	33.12	8.1	24.7	1.05
I34	24 Feb 2024	5	13.93	92.97	7.4	33.15	8.1	24.8	0.98
I34	24 Feb 2024	6	13.83	94.39	7.3	33.15	8.1	24.8	0.95
I34	24 Feb 2024	7	13.72	94.87	7.2	33.16	8.1	24.8	0.93
I34	24 Feb 2024	8	13.60	94.77	7.1	33.17	8.1	24.9	0.93
I34	24 Feb 2024	9	13.47	94.51	7.0	33.18	8.1	24.9	0.93
I34	24 Feb 2024	10	13.44	94.56	7.0	33.19	8.1	24.9	0.94
I34	24 Feb 2024	11	13.42	93.91	6.9	33.19	8.1	24.9	1.03
I34	24 Feb 2024	12	13.40	92.40	6.8	33.20	8.0	24.9	1.05
I34	24 Feb 2024	13	13.34	89.84	6.8	33.20	8.0	24.9	1.10
I34	24 Feb 2024	14	13.27	89.86	6.8	33.21	8.0	25.0	1.07
I34	24 Feb 2024	15	13.26	90.74	6.7	33.21	8.0	25.0	1.05
I34	24 Feb 2024	16	13.22	90.82	6.7	33.22	8.0	25.0	1.13
I34	24 Feb 2024	17	13.22	90.12	6.7	33.22	8.0	25.0	1.11
I34	24 Feb 2024	18	13.17	88.97	6.6	33.23	8.0	25.0	1.10
I34	24 Feb 2024	19	13.13	87.25	6.5	33.23	8.0	25.0	1.08
I35	24 Feb 2024	1	15.63	82.04	8.5	32.99	8.2	24.3	0.84
I35	24 Feb 2024	2	15.59	81.78	8.4	32.99	8.2	24.3	0.85
I35	24 Feb 2024	3	15.44	81.84	8.2	32.99	8.2	24.3	1.07
I35	24 Feb 2024	4	15.17	82.14	8.0	33.02	8.2	24.4	1.45
I35	24 Feb 2024	5	14.95	84.70	7.9	33.07	8.2	24.5	1.48
I35	24 Feb 2024	6	14.75	90.17	7.8	33.09	8.2	24.6	1.46
I35	24 Feb 2024	7	14.70	91.75	7.8	33.09	8.1	24.6	1.50
I35	24 Feb 2024	8	14.52	91.84	7.6	33.11	8.1	24.6	1.57
I35	24 Feb 2024	9	13.95	91.63	7.4	33.17	8.1	24.8	1.63
I35	24 Feb 2024	10	13.78	91.78	7.2	33.18	8.1	24.8	1.70
I35	24 Feb 2024	11	13.63	90.87	7.1	33.19	8.1	24.9	1.75
I35	24 Feb 2024	12	13.53	89.53	6.9	33.20	8.1	24.9	1.82
I35	24 Feb 2024	13	13.45	88.07	6.7	33.22	8.0	24.9	1.87
I35	24 Feb 2024	14	13.40	83.72	6.6	33.22	8.0	24.9	1.82
I35	24 Feb 2024	15	13.38	79.95	6.6	33.22	8.0	24.9	1.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/l)	Sal (ppt)	pH	Dens (s-t)	Chlor (µg/L)
I35	24 Feb 2024	16	13.37	78.57	6.6	33.23	8.0	24.9	1.79
I35	24 Feb 2024	17	13.37	77.18	6.5	33.23	8.0	24.9	1.74
I35	24 Feb 2024	18	13.37	74.36	6.5	33.23	8.0	24.9	1.71
I35	24 Feb 2024	19	13.37	69.06	6.4	33.23	8.0	24.9	1.67
I36	24 Feb 2024	1	15.34	44.81	8.5	33.06	8.2	24.4	14.88
I36	24 Feb 2024	2	15.34	44.81	8.4	33.06	8.2	24.4	15.31
I36	24 Feb 2024	3	15.33	45.09	8.4	33.06	8.2	24.4	15.38
I36	24 Feb 2024	4	15.29	44.69	8.1	33.06	8.2	24.4	12.71
I36	24 Feb 2024	5	15.25	47.10	7.8	33.06	8.2	24.4	8.65
I36	24 Feb 2024	6	15.02	52.06	7.5	33.09	8.1	24.5	5.92
I36	24 Feb 2024	7	14.91	56.64	7.0	33.11	8.1	24.5	4.14
I36	24 Feb 2024	8	14.84	56.02	6.9	33.12	8.1	24.6	3.16
I36	24 Feb 2024	9	14.78	52.88	6.7	33.13	8.1	24.6	2.43
I36	24 Feb 2024	10	14.58	53.77	5.9	33.17	8.0	24.6	1.85
I36	24 Feb 2024	11	14.38	47.79	5.4	33.20	8.0	24.7	1.46
I37	24 Feb 2024	1	14.83	90.91	7.9	33.05	8.1	24.5	0.90
I37	24 Feb 2024	2	14.81	91.06	7.8	33.05	8.1	24.5	0.90
I37	24 Feb 2024	3	14.77	90.29	7.8	33.06	8.1	24.5	0.92
I37	24 Feb 2024	4	14.57	90.80	7.6	33.10	8.1	24.6	0.93
I37	24 Feb 2024	5	14.37	90.56	7.4	33.12	8.1	24.7	0.97
I37	24 Feb 2024	6	14.28	89.78	7.3	33.13	8.1	24.7	1.01
I37	24 Feb 2024	7	14.12	89.17	7.2	33.15	8.1	24.7	1.04
I37	24 Feb 2024	8	14.06	88.25	7.1	33.15	8.1	24.7	1.08
I37	24 Feb 2024	9	14.01	87.41	7.1	33.15	8.1	24.8	1.10
I37	24 Feb 2024	10	13.93	85.95	7.1	33.16	8.1	24.8	1.12
I37	24 Feb 2024	11	13.89	87.28	6.8	33.18	8.1	24.8	1.15
I37	24 Feb 2024	12	13.91	85.32	6.3	33.21	8.0	24.8	1.29
I38	24 Feb 2024	1	15.53	78.71	8.9	33.00	8.2	24.3	1.50
I38	24 Feb 2024	2	15.46	78.26	8.9	33.00	8.2	24.3	1.89
I38	24 Feb 2024	3	15.42	75.18	8.9	33.00	8.2	24.3	3.46
I38	24 Feb 2024	4	15.40	72.83	8.8	33.00	8.2	24.3	3.87
I38	24 Feb 2024	5	15.37	73.92	8.6	33.01	8.2	24.4	3.01
I38	24 Feb 2024	6	15.17	75.36	8.1	33.04	8.2	24.4	2.37
I38	24 Feb 2024	7	15.04	73.57	7.7	33.05	8.1	24.5	2.04
I38	24 Feb 2024	8	14.97	65.47	7.4	33.07	8.1	24.5	1.88
I38	24 Feb 2024	9	14.79	56.82	7.0	33.11	8.1	24.6	1.83
I38	24 Feb 2024	10	14.53	56.78	6.9	33.15	8.1	24.6	1.67
I38	24 Feb 2024	11	14.36	63.99	6.7	33.17	8.1	24.7	1.49

NA = not available

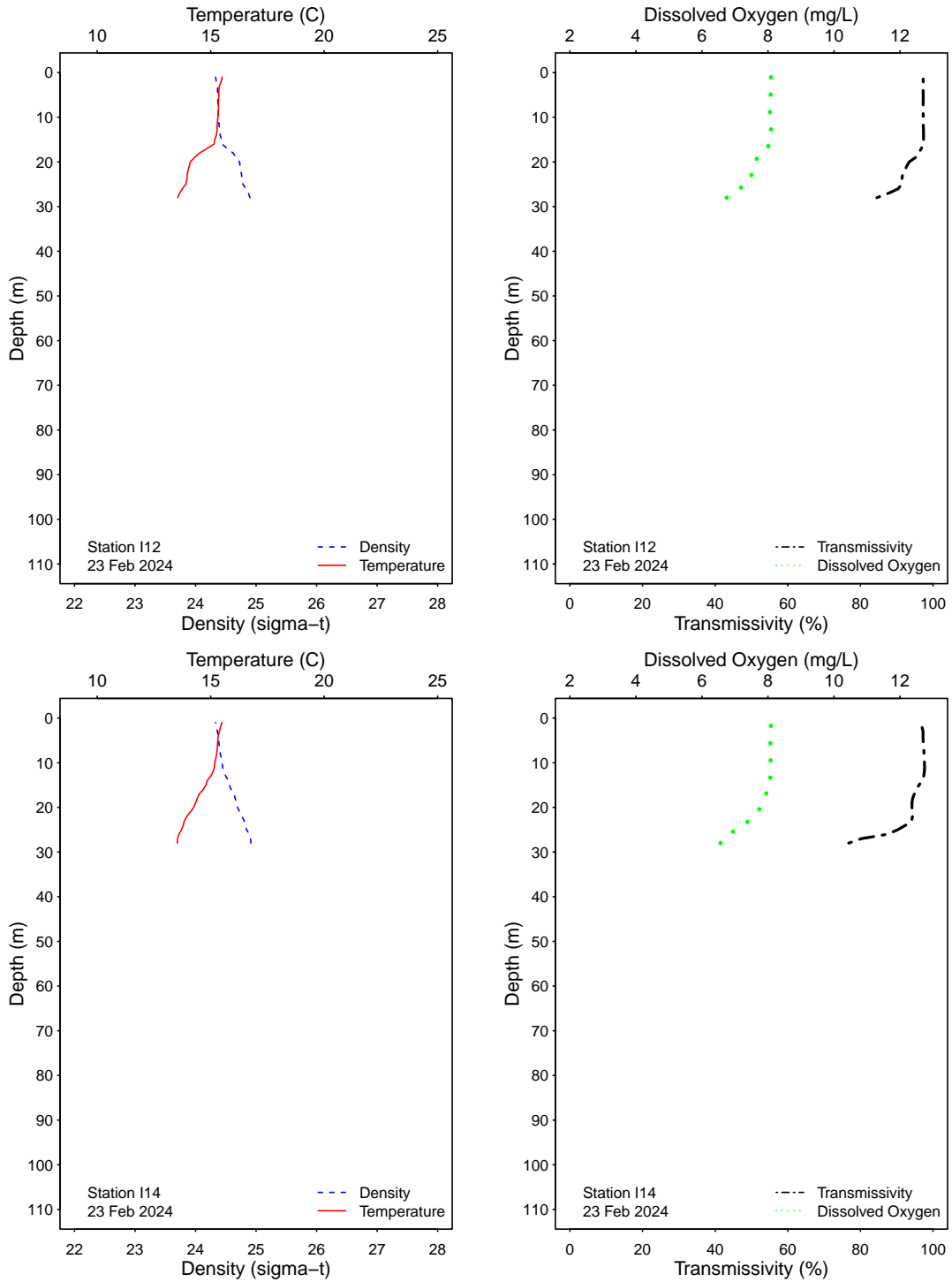


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

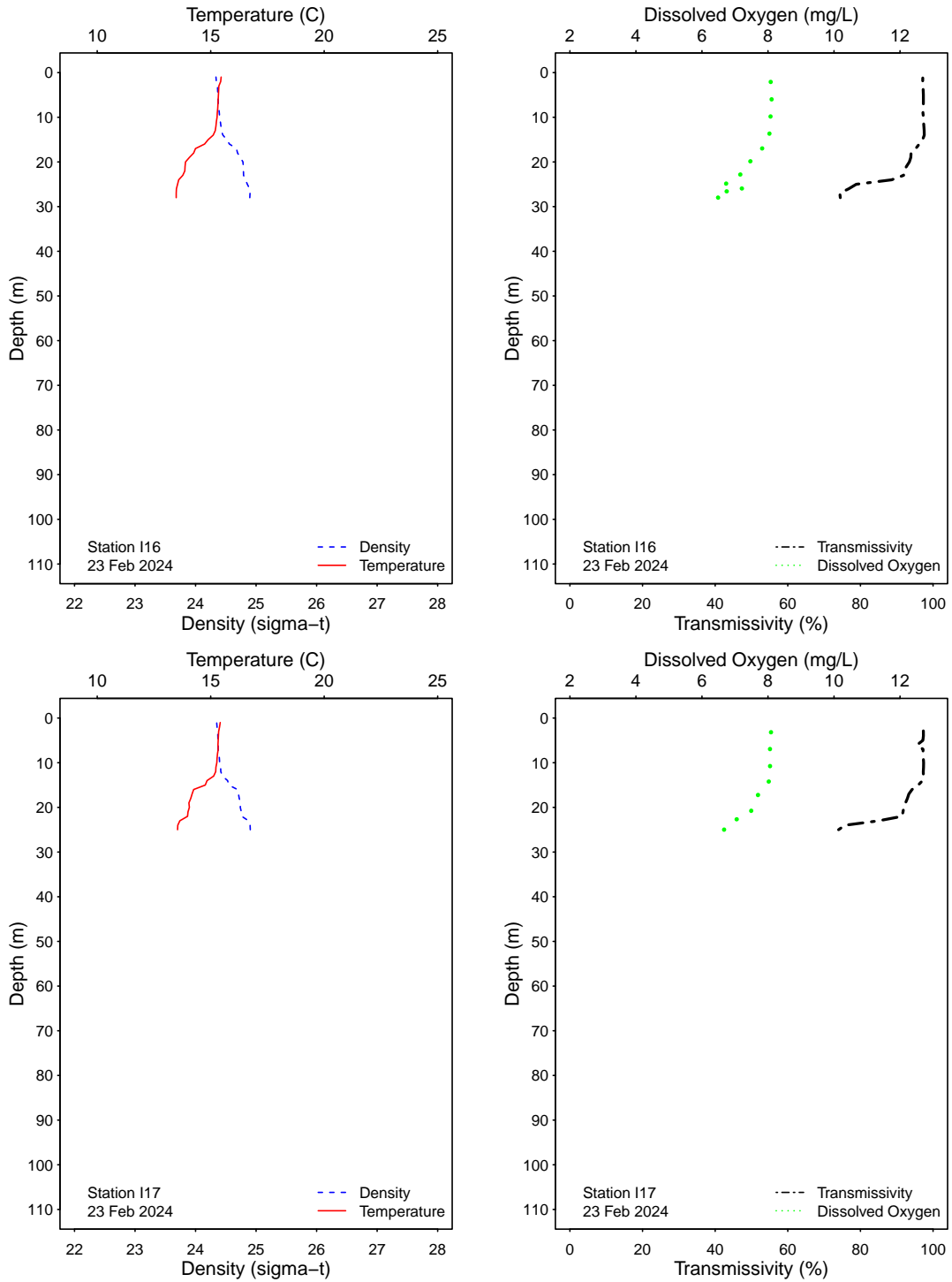


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

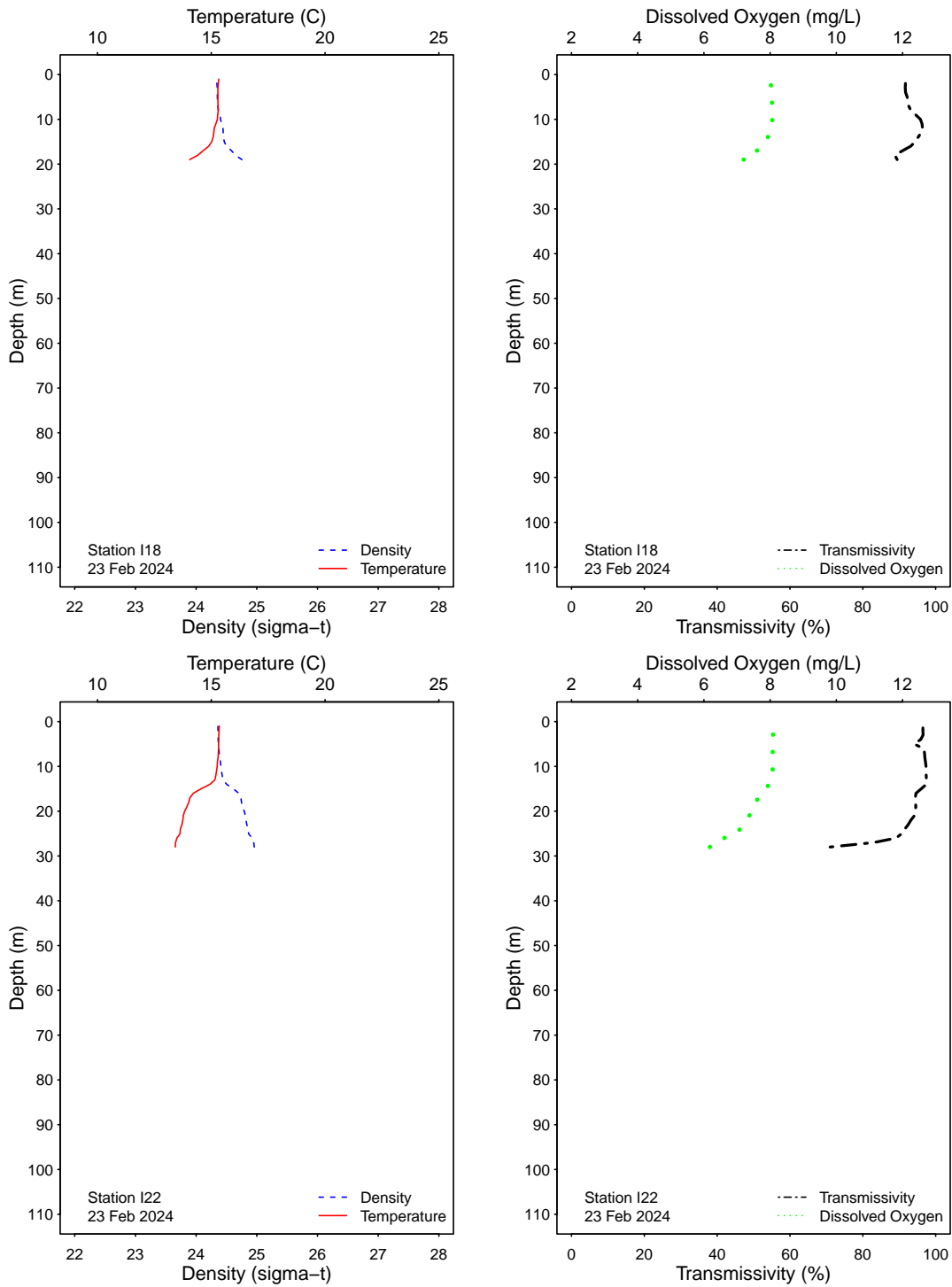


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

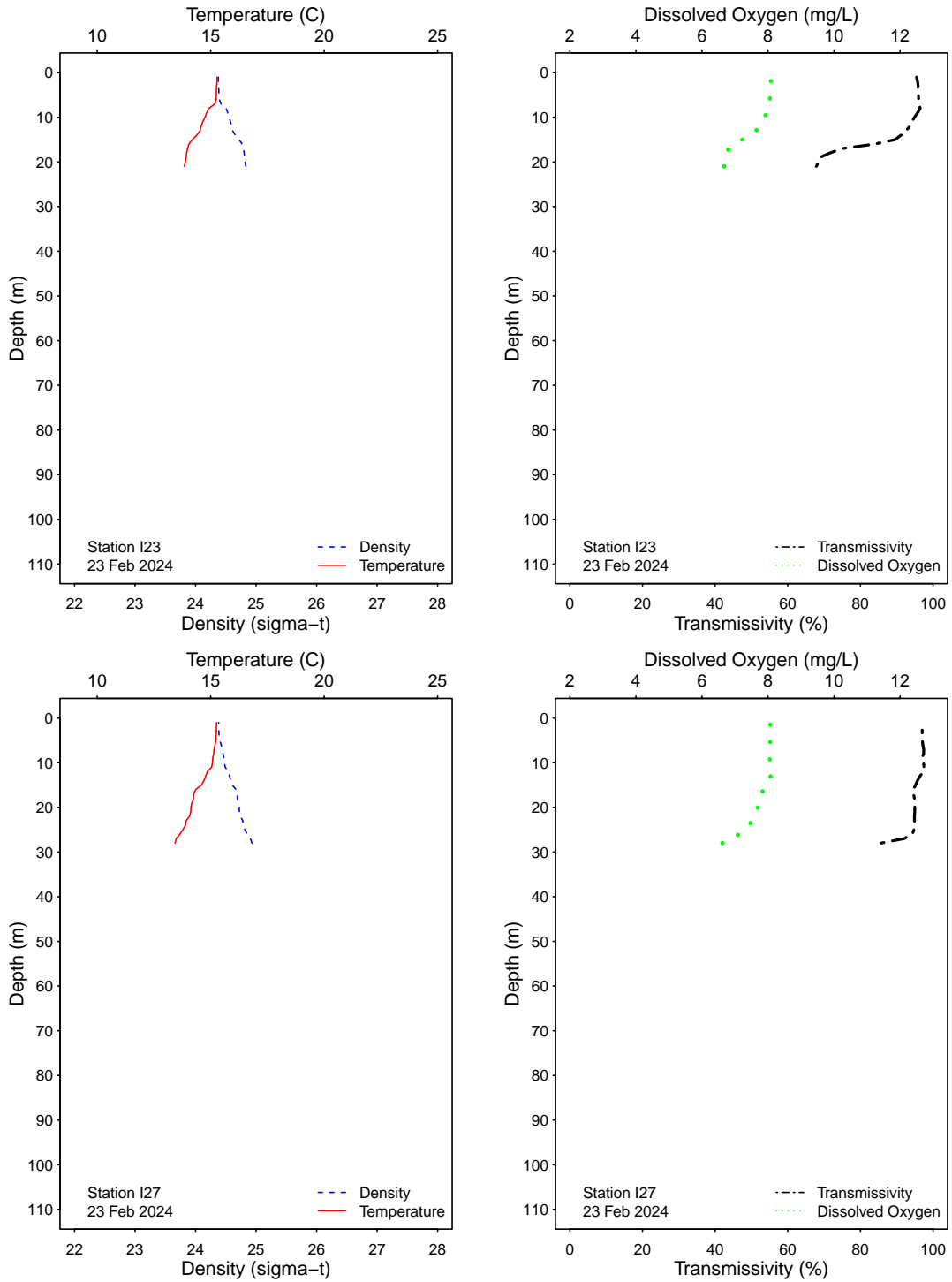


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

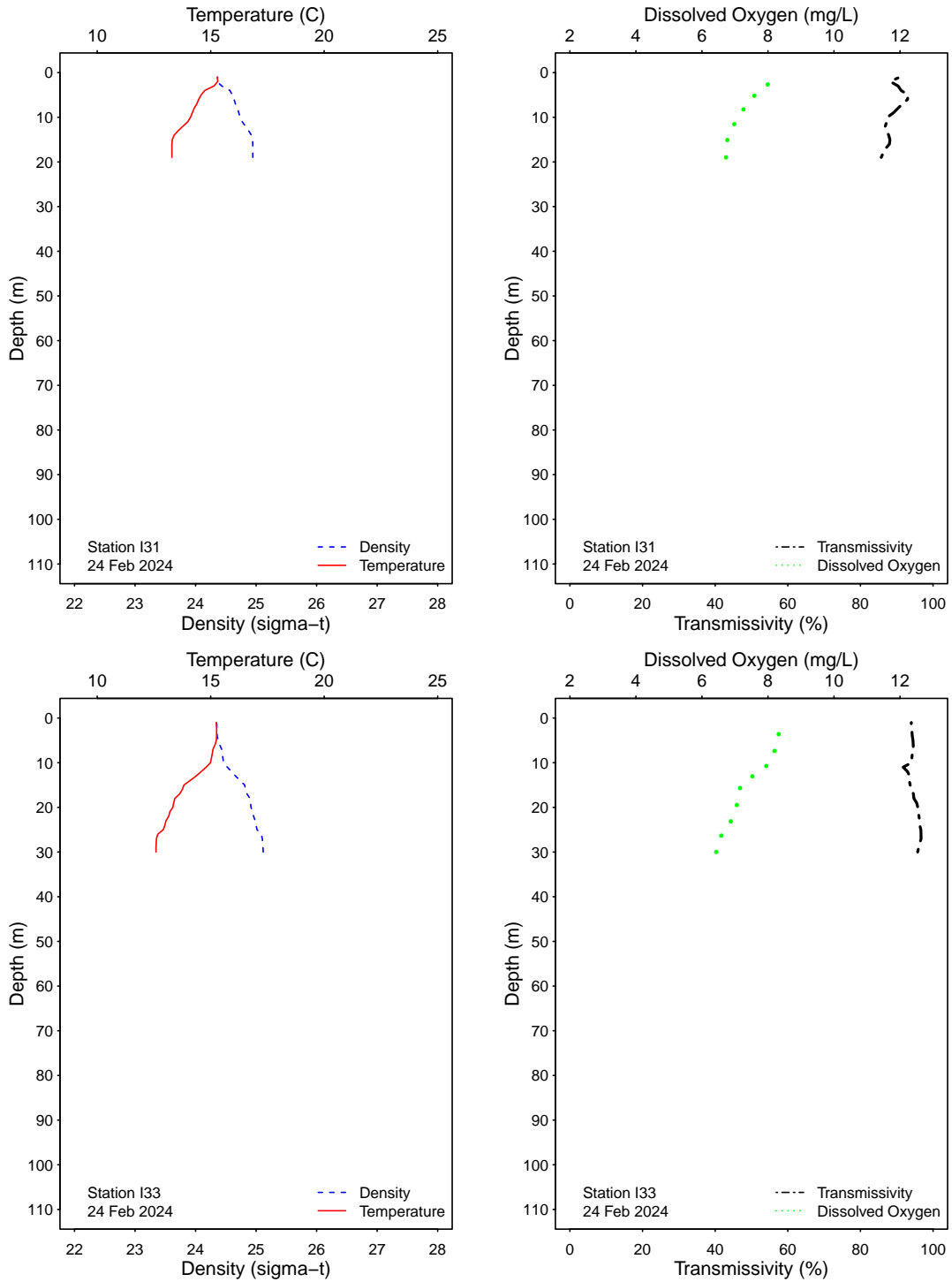


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

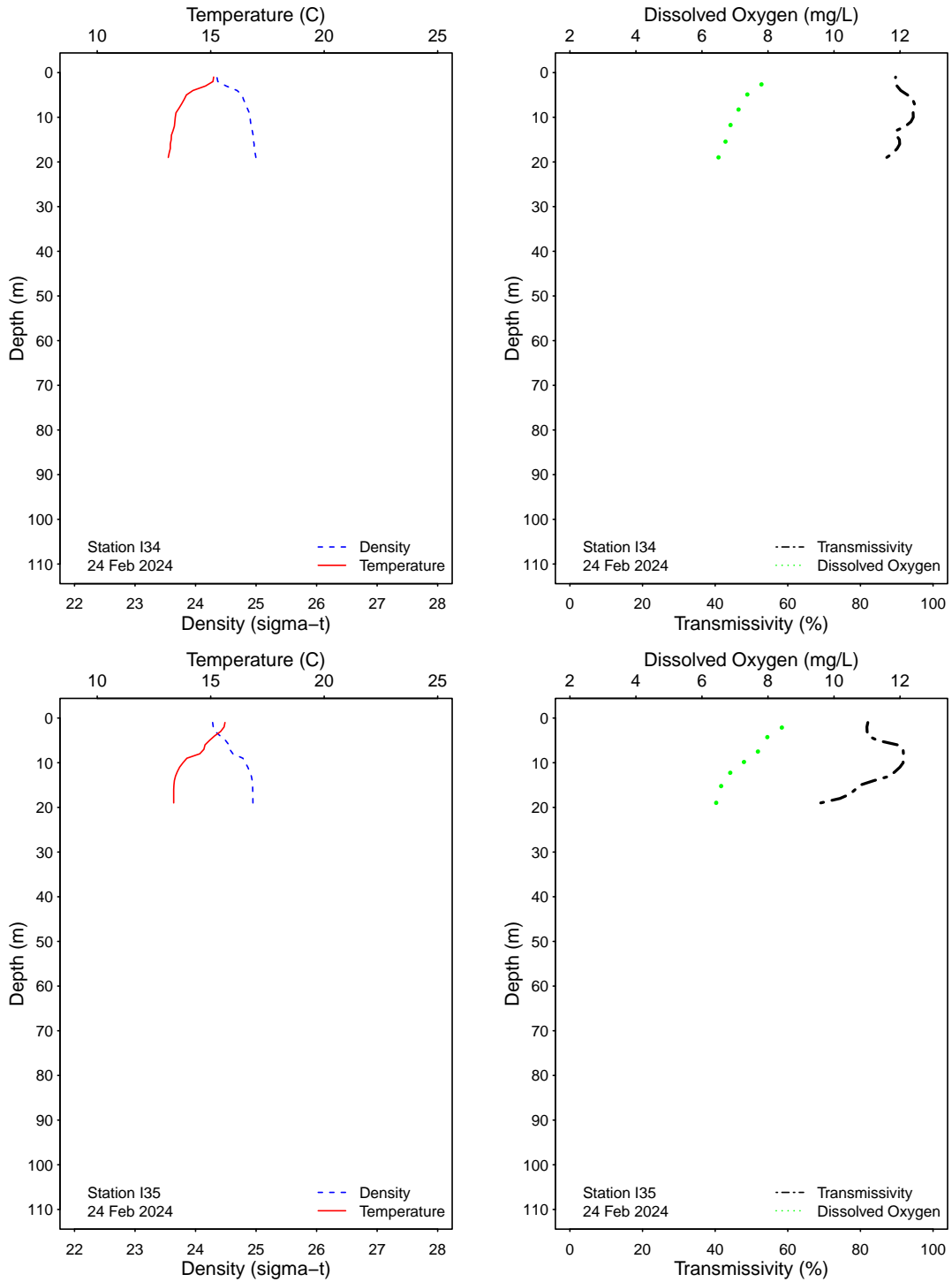


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

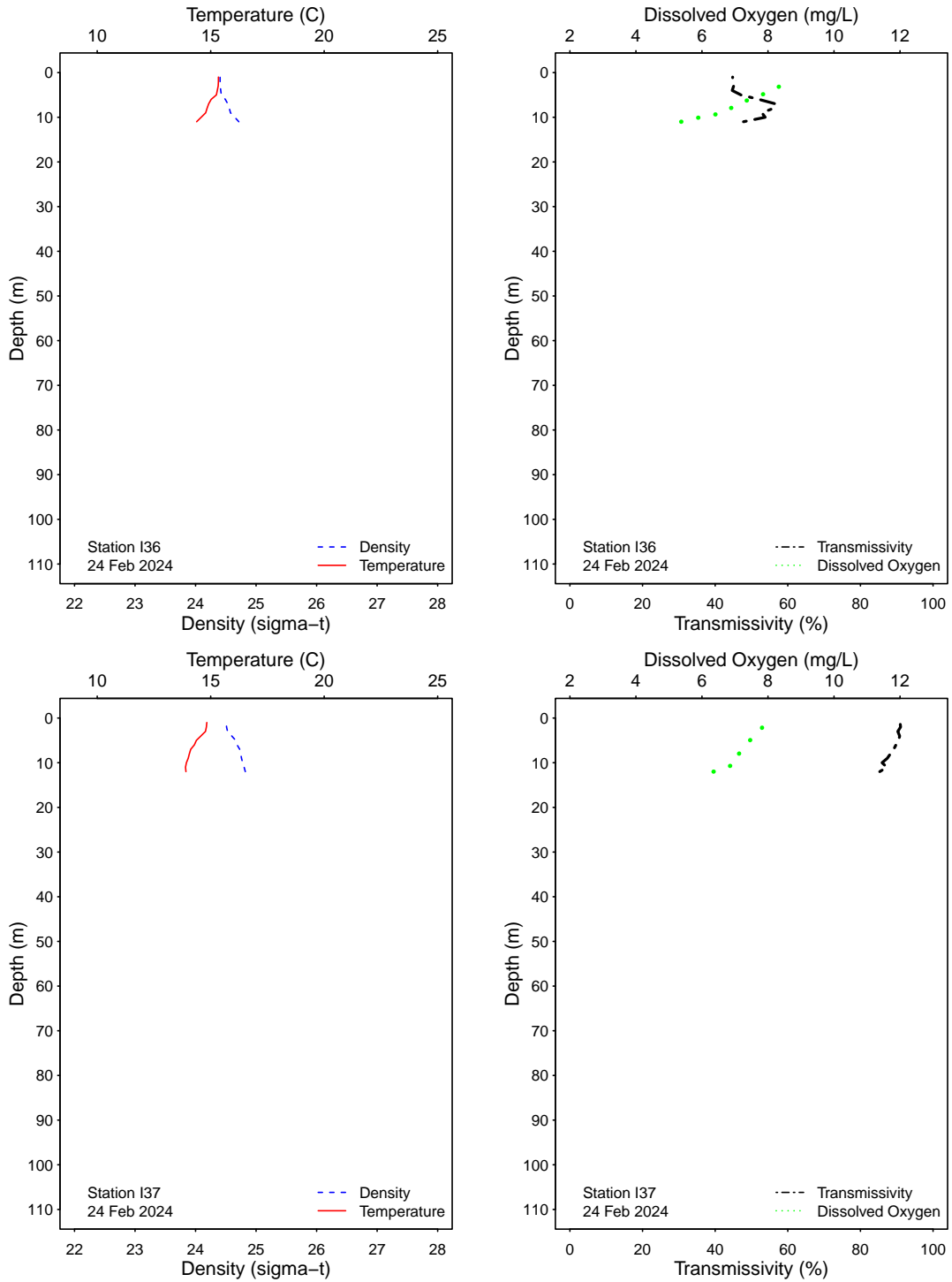


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

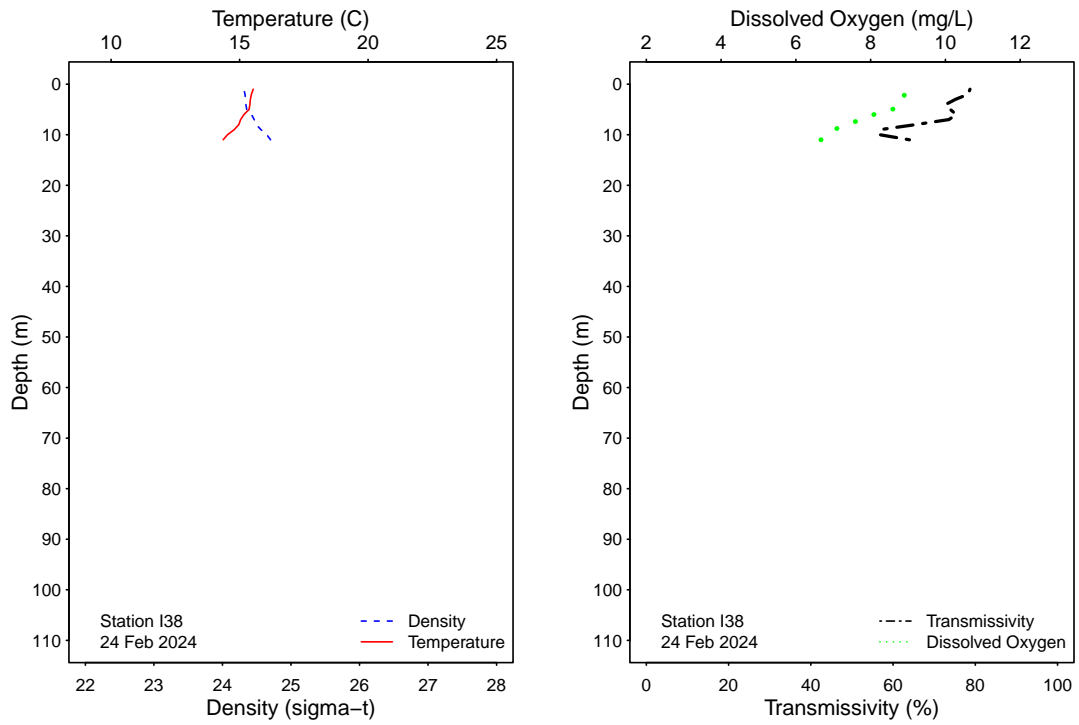


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

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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
I12	23 Feb 2024	18	JF,KT/KA	LAB DUPLICATE	74	4	6
I16	23 Feb 2024	18	JF,KT/KA	LAB DUPLICATE	2	2	2
I19	09 Feb 2024	6	JF,BS/KA	LAB DUPLICATE	16000	6000	4600
I19	12 Feb 2024	6	KA,JF,BS/KA	LAB DUPLICATE	400	260	380
I19	21 Feb 2024	6	JF,ADG,KT,KA	LAB DUPLICATE	10000	1200	460
I19	27 Feb 2024	6	KA,KT,BS,ADG	LAB DUPLICATE	8600	1200	480
I36	24 Feb 2024	11	KA/JF/KA	LAB DUPLICATE	20	4	44
I40	09 Feb 2024	6	JF,BS/KA	LAB DUPLICATE	16000	5400	2200
I40	12 Feb 2024	6	KA,JF,BS/KA	LAB DUPLICATE	6400	1100	680
I40	21 Feb 2024	6	JF,ADG,KT,KA	LAB DUPLICATE	11000	5200	2200
I40	27 Feb 2024	6	KA,KT,BS,ADG	LAB DUPLICATE	12000	1800	380
S12	07 Feb 2024		KA,JF/KA	LAB DUPLICATE	16000	12000	12000
S12	13 Feb 2024		JF, KA/KT	LAB DUPLICATE	280	18	80
S12	20 Feb 2024		JF,KA/KT	LAB DUPLICATE	1600	360	60
S12	27 Feb 2024		KT,KA/KA	LAB DUPLICATE	3800	640	110

ns = not sampled

ND = no data

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