SD Public Utilities

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

NOVEMBER 2023

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

CERTIFIED
Public Utilities Department
Continual Improvement, Prevention of Pollution, Regulatory Compliance
ISO 14001

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

December 31, 2023

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 November 2023 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 four times during the month 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.

The seven kelp stations are sampled on a weekly basis during the month. 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 monthly 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 four 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 chromomorphic 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, suspended solids, and oil and grease concentrations 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:

<u>Water-Contact Objectives</u>

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 E*nterococci* 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

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.

Shellfish Harvesting Standards

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, 1987[2]) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2023 Quality Assurance Report, which will be completed in March 2024.

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 November**,** six 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, and S11.
    - The single sample maximum (SSM) standard for fecal coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
    - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.

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

        - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, and S11.
        - The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12
        - The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
    - A sewage-like odor was observed at station S5 on one or more days in November.
    - 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 November 6, 13, 21, and 28.
    - During November, six 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 station I40.
        - The SSM standard for fecal coliforms was exceeded at stations I19, I24, I25, I26, and I40.
        - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, and I40.
        - The STV standard for *Enterococcus* was exceeded at stations I19, I25, I26, I32, and I40.
        - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, and I40.
        - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, and I40.
    - Water column temperatures ranged from 14.58 to 17.49°C. The difference between surface and bottom waters ranged from 0.14 to 2.09°C.
    - Concentrations of chlorophyll *a* ranged from 0.41 to 21.30 µg/L at the kelp bed stations.
    - Nothing of sewage origin was observed at SBOO kelp stations in November.

- **Offshore Water Quality Sampling**
    - Quarterly offshore water quality sampling was conducted over three days during the month (i.e., November 7, 8, and 9).
    - During November, 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 13.62 to 17.17°C at the offshore sites. The difference between surface and bottom waters ranged from 0.83 to 3.19°C.
- Chlorophyll *a* concentrations ranged from 0.46 to 3.95 µg/L at the offshore sites.
- Nothing of sewage origin was observed at SBOO offshore stations in November.
- CDOM data are available upon request.

This page intentionally left blank

TABLES AND FIGURES

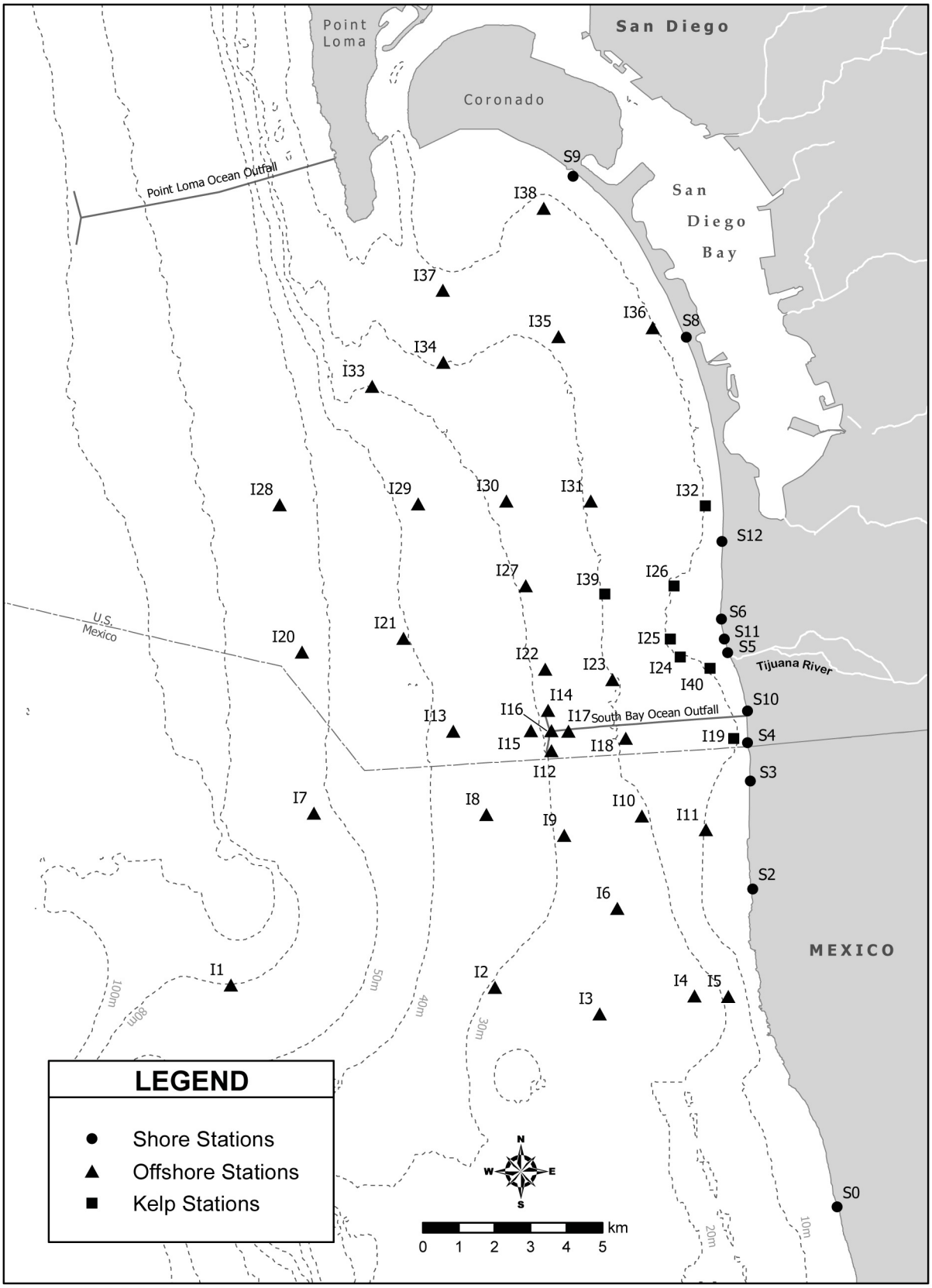

Figure 1.1 Station Map

This page intentionally left blank

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 Nov 2023	36	**868**	**1094**	2	6	108	**1108**	96
02 Nov 2023	15	**460**	**601**	3	3	71	**610**	193
03 Nov 2023	15	**460**	**601**	3	3	71	**610**	193
04 Nov 2023	15	**460**	**601**	3	3	71	**610**	193
05 Nov 2023	15	**460**	**601**	3	3	71	**610**	193
06 Nov 2023	15	**460**	**601**	3	3	71	**610**	193
07 Nov 2023	28	**884**	192	2	3	91	**257**	77
08 Nov 2023	28	**884**	192	2	3	91	**257**	77
09 Nov 2023	41	**818**	94	3	3	151	116	22
10 Nov 2023	41	**818**	94	3	3	151	116	22
11 Nov 2023	41	**818**	94	3	3	151	116	22
12 Nov 2023	41	**818**	94	3	3	151	116	22
13 Nov 2023	41	**818**	94	3	3	151	116	22
14 Nov 2023	71	**784**	88	3	4	**242**	99	14
15 Nov 2023	71	**784**	88	3	4	**242**	99	14
16 Nov 2023	40	**720**	51	3	5	147	56	7
17 Nov 2023	40	**720**	51	3	5	147	56	7
18 Nov 2023	40	**720**	51	3	5	147	56	7
19 Nov 2023	40	**720**	51	3	5	147	56	7
20 Nov 2023	40	**720**	51	3	5	147	56	7
21 Nov 2023	111	**1264**	30	3	4	**354**	60	5
22 Nov 2023	111	**1264**	30	3	4	**354**	60	5
23 Nov 2023	**305**	**1341**	11	2	3	**485**	26	6
24 Nov 2023	**305**	**1341**	11	2	3	**485**	26	6
25 Nov 2023	**305**	**1341**	11	2	3	**485**	26	6
26 Nov 2023	**305**	**1341**	11	2	3	**485**	26	6
27 Nov 2023	**305**	**1341**	11	2	3	**485**	26	6
28 Nov 2023	192	**1575**	30	3	4	**480**	69	14
29 Nov 2023	192	**1575**	30	3	4	**480**	69	14
30 Nov 2023	**455**	**4109**	31	3	5	**1207**	103	8

* 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 Nov 2023	IC	**E**	IC	IC	IC	IC	IC	IC
14 Nov 2023	**E**	**E**	IC	IC	IC	**E**	IC	IC
21 Nov 2023	**E**	**E**	IC	IC	IC	**E**	IC	IC
28 Nov 2023	IC	**E**	**E**	IC	IC	**E**	**E**	**E**

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 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
02 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
03 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
04 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
05 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
06 Nov 2023	**78**	**810**	**510**	3	5	**129**	**622**	**45**
07 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
08 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
09 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
10 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
11 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
12 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
13 Nov 2023	**61**	**992**	**416**	4	6	**100**	**459**	**45**
14 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
15 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
16 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
17 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
18 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
19 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
20 Nov 2023	**60**	**717**	**193**	4	8	**110**	**220**	**45**
21 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
22 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
23 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
24 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
25 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
26 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
27 Nov 2023	**125**	**1210**	**71**	6	7	**292**	**127**	12
28 Nov 2023	**63**	**944**	**53**	6	8	**178**	**111**	10
29 Nov 2023	**63**	**944**	**53**	6	8	**178**	**111**	10
30 Nov 2023	**63**	**944**	**53**	6	8	**178**	**111**	10

* 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
November	**E**	**E**	**E**	IC	IC	**E**	**E**	IC

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

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Nov 2023	40	**5800**	**6800**	6	20	**540**	**8000**	**260**
02 Nov 2023	30	**5400**	**5600**	11	20	**310**	**6600**	**630**
03 Nov 2023	30	**5400**	**5600**	11	20	**310**	**6600**	**630**
04 Nov 2023	30	**5400**	**5600**	11	20	**310**	**6600**	**630**
05 Nov 2023	30	**5400**	**5600**	11	20	**310**	**6600**	**630**
06 Nov 2023	30	**5400**	**5600**	11	20	**310**	**6600**	**630**
07 Nov 2023	40	**5800**	**4400**	2	20	**540**	**5200**	**260**
08 Nov 2023	40	**5800**	**4400**	2	20	**540**	**5200**	**260**
09 Nov 2023	**490**	**6500**	**2250**	11	20	**700**	**2640**	**140**
10 Nov 2023	**490**	**6500**	**2250**	11	20	**700**	**2640**	**140**
11 Nov 2023	**490**	**6500**	**2250**	11	20	**700**	**2640**	**140**
12 Nov 2023	**490**	**6500**	**2250**	11	20	**700**	**2640**	**140**
13 Nov 2023	**490**	**6500**	**2250**	11	20	**700**	**2640**	**140**
14 Nov 2023	**960**	**5800**	**400**	20	20	**860**	**400**	20
15 Nov 2023	**960**	**5800**	**400**	20	20	**860**	**400**	20
16 Nov 2023	**490**	**4400**	**250**	11	20	**700**	**240**	20
17 Nov 2023	**490**	**4400**	**250**	11	20	**700**	**240**	20
18 Nov 2023	**490**	**4400**	**250**	11	20	**700**	**240**	20
19 Nov 2023	**490**	**4400**	**250**	11	20	**700**	**240**	20
20 Nov 2023	**490**	**4400**	**250**	11	20	**700**	**240**	20
21 Nov 2023	**960**	**7200**	**100**	20	20	**860**	**140**	20
22 Nov 2023	**960**	**7200**	**100**	20	20	**860**	**140**	20
23 Nov 2023	**1080**	**8800**	60	20	20	**3430**	**110**	20
24 Nov 2023	**1080**	**8800**	60	20	20	**3430**	**110**	20
25 Nov 2023	**1080**	**8800**	60	20	20	**3430**	**110**	20
26 Nov 2023	**1080**	**8800**	60	20	20	**3430**	**110**	20
27 Nov 2023	**1080**	**8800**	60	20	20	**3430**	**110**	20
28 Nov 2023	**960**	**7200**	**100**	20	20	**3200**	**140**	20
29 Nov 2023	**960**	**7200**	**100**	20	20	**3200**	**140**	20
30 Nov 2023	**1080**	**11600**	**210**	20	30	**4600**	**270**	20

* 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
November	**E**	**E**	**E**	IC	IC	**E**	**E**	**E**

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

Table 2.7

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero
S0	07 Nov 2023	945	>16000	8600	6400
S0	14 Nov 2023	1110	>=16000	6800	5400
S0	21 Nov 2023	820	>16000	4000	7200
S0	28 Nov 2023	940	6600	300e	1000
S2	07 Nov 2023	1055	<20	<2	2e
S2	14 Nov 2023	1220	<20	4e	14e
S2	21 Nov 2023	1005	6600	500	86
S2	28 Nov 2023	1040	300e	20e	54
S3	07 Nov 2023	1025	60e	20e	44
S3	14 Nov 2023	1145	340e	260e	18e
S3	21 Nov 2023	930	8400	920	220e
S3	28 Nov 2023	1015	86	2e	62
S4	07 Nov 2023	750	960	320e	60e
S4	14 Nov 2023	850	1200e	640	300e
S4	21 Nov 2023	810	>16000	7000	1200e
S4	28 Nov 2023	829	420	30e	12e
S5	07 Nov 2023	902	>16000	>12000	7400
S5	14 Nov 2023	941	1600e	660	400
S5	21 Nov 2023	923	>16000	>12000	>12000
S5	28 Nov 2023	923	7200	3000e	360e
S6	07 Nov 2023	937	20e	<2	10e
S6	14 Nov 2023	1009	400	68	44
S6	21 Nov 2023	1002	20e	4e	<2
S6	28 Nov 2023	949	9000	1800e	380e
S8	07 Nov 2023	1016	2e	<2	8e
S8	14 Nov 2023	1039	20e	4e	4e
S8	21 Nov 2023	1038	<20	<2	32e
S8	28 Nov 2023	1020	<20	6e	<2
S9	07 Nov 2023	1035	40e	<2	4e
S9	14 Nov 2023	1056	<20	18e	28e
S9	21 Nov 2023	1056	<20	<2	<2
S9	28 Nov 2023	1036	<200	8e	8e
S10	07 Nov 2023	806	860	240e	86
S10	14 Nov 2023	831	6000	1600e	460
S10	21 Nov 2023	826	>16000	>12000	7800
S10	28 Nov 2023	816	3200e	460	72
S11	07 Nov 2023	923	<20	8e	10e
S11	14 Nov 2023	958	400	54	66
S11	21 Nov 2023	951	140e	80e	52
S11	28 Nov 2023	938	12000	3200e	620
S12	07 Nov 2023	957	2e	<2	2e
S12	14 Nov 2023	1021	<20	<2	<2
S12	21 Nov 2023	1018	<20	2e	2e

Station	Date	Time	Total	Fecal	Entero
S12	28 Nov 2023	1004	860	520	90

ns = not sampled
ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S0	07 Nov 2023	Arrive Time	945
S0	07 Nov 2023	Weather	Sunny
S0	07 Nov 2023	Wind Speed (kts)	1.1
S0	07 Nov 2023	Wind Dir	NE
S0	07 Nov 2023	Animal Life	Dog-2; Seagull-10;
S0	07 Nov 2023	Floatables	None
S0	07 Nov 2023	Water Color	Green
S0	07 Nov 2023	Current Direction	N
S0	07 Nov 2023	Water Temp (C)	16
S0	07 Nov 2023	Wave Height Low (ft)	3
S0	07 Nov 2023	High Tide (ft)	4.42
S0	07 Nov 2023	High Tide Time	553
S0	07 Nov 2023	Low Tide (ft)	2.14
S0	07 Nov 2023	Low Tide Time	1148
S0	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-4; 0.5 L/s water flowing from storm drain
S0	14 Nov 2023	Arrive Time	1110
S0	14 Nov 2023	Weather	Sunny
S0	14 Nov 2023	Wind Speed (kts)	1.3
S0	14 Nov 2023	Wind Dir	NE
S0	14 Nov 2023	Animal Life	Dog-2; Seagull-20;
S0	14 Nov 2023	Floatables	None
S0	14 Nov 2023	Water Color	Green
S0	14 Nov 2023	Current Direction	N
S0	14 Nov 2023	Water Temp (C)	15
S0	14 Nov 2023	Wave Height Low (ft)	3
S0	14 Nov 2023	High Tide (ft)	6.15
S0	14 Nov 2023	High Tide Time	829
S0	14 Nov 2023	Low Tide (ft)	1.96
S0	14 Nov 2023	Low Tide Time	216
S0	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-2; 0.5 L/s water flowing from storm drain
S0	21 Nov 2023	Arrive Time	820
S0	21 Nov 2023	Weather	Sunny
S0	21 Nov 2023	Wind Speed (kts)	1.1
S0	21 Nov 2023	Wind Dir	SE
S0	21 Nov 2023	Animal Life	Dog-4; Seagull-20;
S0	21 Nov 2023	Floatables	None
S0	21 Nov 2023	Water Color	Green
S0	21 Nov 2023	Current Direction	N
S0	21 Nov 2023	Water Temp (C)	13
S0	21 Nov 2023	Wave Height Low (ft)	2
S0	21 Nov 2023	High Tide (ft)	4.52
S0	21 Nov 2023	High Tide Time	440
S0	21 Nov 2023	Low Tide (ft)	2.17
S0	21 Nov 2023	Low Tide Time	1035
S0	21 Nov 2023	Comments	Water turbid; Trash-1; Kelp;Algae; 1.0 L/s water flowing from storm drain
S0	28 Nov 2023	Arrive Time	940
S0	28 Nov 2023	Weather	Sunny
S0	28 Nov 2023	Wind Speed (kts)	1
S0	28 Nov 2023	Wind Dir	NE
S0	28 Nov 2023	Animal Life	Dog-2; Seagull-20;

Station	Date	Parameter	Value
S0	28 Nov 2023	Floatables	None
S0	28 Nov 2023	Water Color	Green
S0	28 Nov 2023	Current Direction	N
S0	28 Nov 2023	Water Temp (C)	15
S0	28 Nov 2023	Wave Height Low (ft)	3
S0	28 Nov 2023	High Tide (ft)	6.33
S0	28 Nov 2023	High Tide Time	836
S0	28 Nov 2023	Low Tide (ft)	2.07
S0	28 Nov 2023	Low Tide Time	225
S0	28 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; 0.5L/s water flowing from storm drain.
S2	07 Nov 2023	Arrive Time	1055
S2	07 Nov 2023	Weather	Sunny
S2	07 Nov 2023	Wind Speed (kts)	1.3
S2	07 Nov 2023	Wind Dir	NE
S2	07 Nov 2023	Animal Life	Dog-3; Seagull-20;
S2	07 Nov 2023	Floatables	None
S2	07 Nov 2023	Water Color	Green
S2	07 Nov 2023	Current Direction	N
S2	07 Nov 2023	Water Temp (C)	16
S2	07 Nov 2023	Wave Height Low (ft)	3
S2	07 Nov 2023	High Tide (ft)	4.42
S2	07 Nov 2023	High Tide Time	553
S2	07 Nov 2023	Low Tide (ft)	2.14
S2	07 Nov 2023	Low Tide Time	1148
S2	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-10; No water flowing from storm drain
S2	14 Nov 2023	Arrive Time	1220
S2	14 Nov 2023	Weather	Sunny
S2	14 Nov 2023	Wind Speed (kts)	1
S2	14 Nov 2023	Wind Dir	NE
S2	14 Nov 2023	Animal Life	Dog-4; Seagull-20;
S2	14 Nov 2023	Floatables	None
S2	14 Nov 2023	Water Color	Green
S2	14 Nov 2023	Current Direction	N
S2	14 Nov 2023	Water Temp (C)	15
S2	14 Nov 2023	Wave Height Low (ft)	3
S2	14 Nov 2023	High Tide (ft)	6.15
S2	14 Nov 2023	High Tide Time	829
S2	14 Nov 2023	Low Tide (ft)	1.96
S2	14 Nov 2023	Low Tide Time	216
S2	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-10; No water flowing from storm drain
S2	21 Nov 2023	Arrive Time	1005
S2	21 Nov 2023	Weather	Sunny
S2	21 Nov 2023	Wind Speed (kts)	1.3
S2	21 Nov 2023	Wind Dir	NE
S2	21 Nov 2023	Animal Life	Dog-1; Seagull-20;
S2	21 Nov 2023	Floatables	None
S2	21 Nov 2023	Water Color	Green
S2	21 Nov 2023	Current Direction	S
S2	21 Nov 2023	Water Temp (C)	13
S2	21 Nov 2023	Wave Height Low (ft)	2
S2	21 Nov 2023	High Tide (ft)	4.52
S2	21 Nov 2023	High Tide Time	440
S2	21 Nov 2023	Low Tide (ft)	2.17
S2	21 Nov 2023	Low Tide Time	1035

Station	Date	Parameter	Value
S2	21 Nov 2023	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp;Algae; No water flowing from storm drain
S2	28 Nov 2023	Arrive Time	1040
S2	28 Nov 2023	Weather	Sunny
S2	28 Nov 2023	Wind Speed (kts)	1.2
S2	28 Nov 2023	Wind Dir	NE
S2	28 Nov 2023	Animal Life	Dog-6; Seagull-20;
S2	28 Nov 2023	Floatables	None
S2	28 Nov 2023	Water Color	Green
S2	28 Nov 2023	Current Direction	N
S2	28 Nov 2023	Water Temp (C)	15
S2	28 Nov 2023	Wave Height Low (ft)	3
S2	28 Nov 2023	High Tide (ft)	6.33
S2	28 Nov 2023	High Tide Time	836
S2	28 Nov 2023	Low Tide (ft)	2.07
S2	28 Nov 2023	Low Tide Time	225
S2	28 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-5; No water flowing from storm drain
S3	07 Nov 2023	Arrive Time	1025
S3	07 Nov 2023	Weather	Sunny
S3	07 Nov 2023	Wind Speed (kts)	1.4
S3	07 Nov 2023	Wind Dir	NE
S3	07 Nov 2023	Animal Life	Dog-4; Seagull-20;
S3	07 Nov 2023	Floatables	None
S3	07 Nov 2023	Water Color	Green
S3	07 Nov 2023	Current Direction	N
S3	07 Nov 2023	Water Temp (C)	16
S3	07 Nov 2023	Wave Height Low (ft)	3
S3	07 Nov 2023	High Tide (ft)	4.42
S3	07 Nov 2023	High Tide Time	553
S3	07 Nov 2023	Low Tide (ft)	2.14
S3	07 Nov 2023	Low Tide Time	1148
S3	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-10; No water flowing from storm drain
S3	14 Nov 2023	Arrive Time	1145
S3	14 Nov 2023	Weather	Sunny
S3	14 Nov 2023	Wind Speed (kts)	1.1
S3	14 Nov 2023	Wind Dir	NE
S3	14 Nov 2023	Animal Life	Dog-4; Seagull-20;
S3	14 Nov 2023	Floatables	None
S3	14 Nov 2023	Water Color	Green
S3	14 Nov 2023	Current Direction	N
S3	14 Nov 2023	Water Temp (C)	15
S3	14 Nov 2023	Wave Height Low (ft)	3
S3	14 Nov 2023	High Tide (ft)	6.15
S3	14 Nov 2023	High Tide Time	829
S3	14 Nov 2023	Low Tide (ft)	1.96
S3	14 Nov 2023	Low Tide Time	216
S3	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-10; No water flowing from storm drain
S3	21 Nov 2023	Arrive Time	930
S3	21 Nov 2023	Weather	Sunny
S3	21 Nov 2023	Wind Speed (kts)	1.7
S3	21 Nov 2023	Wind Dir	NE
S3	21 Nov 2023	Animal Life	Seagull-20;
S3	21 Nov 2023	Floatables	None
S3	21 Nov 2023	Water Color	Green

Station	Date	Parameter	Value
S3	21 Nov 2023	Current Direction	S
S3	21 Nov 2023	Water Temp (C)	13
S3	21 Nov 2023	Wave Height Low (ft)	2
S3	21 Nov 2023	High Tide (ft)	4.52
S3	21 Nov 2023	High Tide Time	440
S3	21 Nov 2023	Low Tide (ft)	2.17
S3	21 Nov 2023	Low Tide Time	1035
S3	21 Nov 2023	Comments	Water turbid; Trash-1; Kelp;Algae; Person/Walker/Jogger-6; No water flowing from storm drain
S3	28 Nov 2023	Arrive Time	1015
S3	28 Nov 2023	Weather	Sunny
S3	28 Nov 2023	Wind Speed (kts)	1
S3	28 Nov 2023	Wind Dir	NE
S3	28 Nov 2023	Animal Life	Dog-4; Seagull-20;
S3	28 Nov 2023	Floatables	None
S3	28 Nov 2023	Water Color	Green
S3	28 Nov 2023	Current Direction	N
S3	28 Nov 2023	Water Temp (C)	15
S3	28 Nov 2023	Wave Height Low (ft)	3
S3	28 Nov 2023	High Tide (ft)	6.33
S3	28 Nov 2023	High Tide Time	836
S3	28 Nov 2023	Low Tide (ft)	2.07
S3	28 Nov 2023	Low Tide Time	225
S3	28 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae; Person/Walker/Jogger-10; No water flowing from storm drain
S4	07 Nov 2023	Arrive Time	750
S4	07 Nov 2023	Weather	Partly cloudy
S4	07 Nov 2023	Wind Speed (kts)	2.8
S4	07 Nov 2023	Wind Dir	W
S4	07 Nov 2023	Animal Life	Bird-4;
S4	07 Nov 2023	Floatables	None
S4	07 Nov 2023	Water Color	Green
S4	07 Nov 2023	Current Direction	S
S4	07 Nov 2023	Water Temp (C)	13
S4	07 Nov 2023	Wave Height Low (ft)	4
S4	07 Nov 2023	High Tide (ft)	4.42
S4	07 Nov 2023	High Tide Time	553
S4	07 Nov 2023	Low Tide (ft)	2.14
S4	07 Nov 2023	Low Tide Time	1148
S4	07 Nov 2023	Comments	Water clear; Trash-2; Kelp;Debris;Seagrass
S4	14 Nov 2023	Arrive Time	850
S4	14 Nov 2023	Weather	Sunny
S4	14 Nov 2023	Wind Speed (kts)	2.7
S4	14 Nov 2023	Wind Dir	W
S4	14 Nov 2023	Animal Life	
S4	14 Nov 2023	Floatables	None
S4	14 Nov 2023	Water Color	Green
S4	14 Nov 2023	Current Direction	S
S4	14 Nov 2023	Water Temp (C)	15
S4	14 Nov 2023	Wave Height Low (ft)	4
S4	14 Nov 2023	High Tide (ft)	6.15
S4	14 Nov 2023	High Tide Time	829
S4	14 Nov 2023	Low Tide (ft)	1.96
S4	14 Nov 2023	Low Tide Time	216
S4	14 Nov 2023	Comments	Water clear; Trash-1; Seagrass;Kelp
S4	21 Nov 2023	Arrive Time	810
S4	21 Nov 2023	Weather	Hazy

Station	Date	Parameter	Value
S4	21 Nov 2023	Wind Speed (kts)	0
S4	21 Nov 2023	Wind Dir	
S4	21 Nov 2023	Animal Life	
S4	21 Nov 2023	Floatables	None
S4	21 Nov 2023	Water Color	Green
S4	21 Nov 2023	Current Direction	S
S4	21 Nov 2023	Water Temp (C)	14
S4	21 Nov 2023	Wave Height Low (ft)	4
S4	21 Nov 2023	High Tide (ft)	4.52
S4	21 Nov 2023	High Tide Time	440
S4	21 Nov 2023	Low Tide (ft)	2.17
S4	21 Nov 2023	Low Tide Time	1035
S4	21 Nov 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S4	28 Nov 2023	Arrive Time	829
S4	28 Nov 2023	Weather	Sunny
S4	28 Nov 2023	Wind Speed (kts)	5
S4	28 Nov 2023	Wind Dir	N
S4	28 Nov 2023	Animal Life	
S4	28 Nov 2023	Floatables	None
S4	28 Nov 2023	Water Color	Green
S4	28 Nov 2023	Current Direction	S
S4	28 Nov 2023	Water Temp (C)	12
S4	28 Nov 2023	Wave Height Low (ft)	6
S4	28 Nov 2023	High Tide (ft)	6.33
S4	28 Nov 2023	High Tide Time	836
S4	28 Nov 2023	Low Tide (ft)	2.07
S4	28 Nov 2023	Low Tide Time	225
S4	28 Nov 2023	Comments	Water clear; Trash-3; Kelp;Seagrass;Debris
S5	07 Nov 2023	Arrive Time	902
S5	07 Nov 2023	Weather	Partly cloudy
S5	07 Nov 2023	Wind Speed (kts)	2.5
S5	07 Nov 2023	Wind Dir	SW
S5	07 Nov 2023	Animal Life	
S5	07 Nov 2023	Floatables	None
S5	07 Nov 2023	Water Color	Green
S5	07 Nov 2023	Current Direction	S
S5	07 Nov 2023	Water Temp (C)	16
S5	07 Nov 2023	Wave Height Low (ft)	3
S5	07 Nov 2023	High Tide (ft)	4.42
S5	07 Nov 2023	High Tide Time	553
S5	07 Nov 2023	Low Tide (ft)	2.14
S5	07 Nov 2023	Low Tide Time	1148
S5	07 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S5	14 Nov 2023	Arrive Time	941
S5	14 Nov 2023	Weather	Sunny
S5	14 Nov 2023	Wind Speed (kts)	3.3
S5	14 Nov 2023	Wind Dir	W
S5	14 Nov 2023	Animal Life	
S5	14 Nov 2023	Floatables	None
S5	14 Nov 2023	Water Color	Green
S5	14 Nov 2023	Current Direction	S
S5	14 Nov 2023	Water Temp (C)	18
S5	14 Nov 2023	Wave Height Low (ft)	2
S5	14 Nov 2023	High Tide (ft)	6.15
S5	14 Nov 2023	High Tide Time	829
S5	14 Nov 2023	Low Tide (ft)	1.96
S5	14 Nov 2023	Low Tide Time	216
S5	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Sewage-like odor

Station	Date	Parameter	Value
S5	21 Nov 2023	Arrive Time	931
S5	21 Nov 2023	Weather	Sunny
S5	21 Nov 2023	Wind Speed (kts)	2.7
S5	21 Nov 2023	Wind Dir	W
S5	21 Nov 2023	Animal Life	
S5	21 Nov 2023	Floatables	None
S5	21 Nov 2023	Water Color	Green
S5	21 Nov 2023	Current Direction	S
S5	21 Nov 2023	Water Temp (C)	14
S5	21 Nov 2023	Wave Height Low (ft)	3
S5	21 Nov 2023	High Tide (ft)	4.52
S5	21 Nov 2023	High Tide Time	440
S5	21 Nov 2023	Low Tide (ft)	2.17
S5	21 Nov 2023	Low Tide Time	1035
S5	21 Nov 2023	Comments	Water clear; Trash-2; Kelp;Debris;Seagrass; Sewage-like odor
S5	28 Nov 2023	Arrive Time	923
S5	28 Nov 2023	Weather	Sunny
S5	28 Nov 2023	Wind Speed (kts)	5
S5	28 Nov 2023	Wind Dir	N
S5	28 Nov 2023	Animal Life	Bird-1;
S5	28 Nov 2023	Floatables	None
S5	28 Nov 2023	Water Color	Green
S5	28 Nov 2023	Current Direction	S
S5	28 Nov 2023	Water Temp (C)	13
S5	28 Nov 2023	Wave Height Low (ft)	3
S5	28 Nov 2023	High Tide (ft)	6.33
S5	28 Nov 2023	High Tide Time	836
S5	28 Nov 2023	Low Tide (ft)	2.07
S5	28 Nov 2023	Low Tide Time	225
S5	28 Nov 2023	Comments	Water clear; Trash-2; Kelp;Debris;Seagrass
S6	07 Nov 2023	Arrive Time	937
S6	07 Nov 2023	Weather	Partly cloudy
S6	07 Nov 2023	Wind Speed (kts)	3
S6	07 Nov 2023	Wind Dir	W
S6	07 Nov 2023	Animal Life	
S6	07 Nov 2023	Floatables	None
S6	07 Nov 2023	Water Color	Green
S6	07 Nov 2023	Current Direction	S
S6	07 Nov 2023	Water Temp (C)	16
S6	07 Nov 2023	Wave Height Low (ft)	3
S6	07 Nov 2023	High Tide (ft)	4.42
S6	07 Nov 2023	High Tide Time	553
S6	07 Nov 2023	Low Tide (ft)	2.14
S6	07 Nov 2023	Low Tide Time	1148
S6	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris;Algae; Person/Walker/Jogger-3
S6	14 Nov 2023	Arrive Time	1009
S6	14 Nov 2023	Weather	Sunny
S6	14 Nov 2023	Wind Speed (kts)	1.1
S6	14 Nov 2023	Wind Dir	W
S6	14 Nov 2023	Animal Life	
S6	14 Nov 2023	Floatables	None
S6	14 Nov 2023	Water Color	Green
S6	14 Nov 2023	Current Direction	S
S6	14 Nov 2023	Water Temp (C)	13
S6	14 Nov 2023	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S6	14 Nov 2023	High Tide (ft)	6.15
S6	14 Nov 2023	High Tide Time	829
S6	14 Nov 2023	Low Tide (ft)	1.96
S6	14 Nov 2023	Low Tide Time	216
S6	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
S6	21 Nov 2023	Arrive Time	1002
S6	21 Nov 2023	Weather	Sunny
S6	21 Nov 2023	Wind Speed (kts)	0.8
S6	21 Nov 2023	Wind Dir	NW
S6	21 Nov 2023	Animal Life	
S6	21 Nov 2023	Floatables	None
S6	21 Nov 2023	Water Color	Green
S6	21 Nov 2023	Current Direction	S
S6	21 Nov 2023	Water Temp (C)	19
S6	21 Nov 2023	Wave Height Low (ft)	5
S6	21 Nov 2023	High Tide (ft)	4.52
S6	21 Nov 2023	High Tide Time	440
S6	21 Nov 2023	Low Tide (ft)	2.17
S6	21 Nov 2023	Low Tide Time	1035
S6	21 Nov 2023	Comments	Water clear; Trash-1; Kelp;Algae
S6	28 Nov 2023	Arrive Time	949
S6	28 Nov 2023	Weather	Sunny
S6	28 Nov 2023	Wind Speed (kts)	3.5
S6	28 Nov 2023	Wind Dir	N
S6	28 Nov 2023	Animal Life	
S6	28 Nov 2023	Floatables	None
S6	28 Nov 2023	Water Color	Green
S6	28 Nov 2023	Current Direction	S
S6	28 Nov 2023	Water Temp (C)	14
S6	28 Nov 2023	Wave Height Low (ft)	4
S6	28 Nov 2023	High Tide (ft)	6.33
S6	28 Nov 2023	High Tide Time	836
S6	28 Nov 2023	Low Tide (ft)	2.07
S6	28 Nov 2023	Low Tide Time	225
S6	28 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris; Person/Walker/Jogger-1
S8	07 Nov 2023	Arrive Time	1016
S8	07 Nov 2023	Weather	Partly cloudy
S8	07 Nov 2023	Wind Speed (kts)	4.3
S8	07 Nov 2023	Wind Dir	SW
S8	07 Nov 2023	Animal Life	
S8	07 Nov 2023	Floatables	None
S8	07 Nov 2023	Water Color	Green
S8	07 Nov 2023	Current Direction	S
S8	07 Nov 2023	Water Temp (C)	16
S8	07 Nov 2023	Wave Height Low (ft)	3
S8	07 Nov 2023	High Tide (ft)	4.42
S8	07 Nov 2023	High Tide Time	553
S8	07 Nov 2023	Low Tide (ft)	2.14
S8	07 Nov 2023	Low Tide Time	1148
S8	07 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S8	14 Nov 2023	Arrive Time	1039
S8	14 Nov 2023	Weather	Sunny
S8	14 Nov 2023	Wind Speed (kts)	4.3
S8	14 Nov 2023	Wind Dir	W
S8	14 Nov 2023	Animal Life	

Station	Date	Parameter	Value
S8	14 Nov 2023	Floatables	None
S8	14 Nov 2023	Water Color	Green
S8	14 Nov 2023	Current Direction	S
S8	14 Nov 2023	Water Temp (C)	14
S8	14 Nov 2023	Wave Height Low (ft)	3
S8	14 Nov 2023	High Tide (ft)	6.15
S8	14 Nov 2023	High Tide Time	829
S8	14 Nov 2023	Low Tide (ft)	1.96
S8	14 Nov 2023	Low Tide Time	216
S8	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S8	21 Nov 2023	Arrive Time	1038
S8	21 Nov 2023	Weather	Sunny
S8	21 Nov 2023	Wind Speed (kts)	2.4
S8	21 Nov 2023	Wind Dir	W
S8	21 Nov 2023	Animal Life	Bird-1;
S8	21 Nov 2023	Floatables	None
S8	21 Nov 2023	Water Color	Green
S8	21 Nov 2023	Current Direction	S
S8	21 Nov 2023	Water Temp (C)	19
S8	21 Nov 2023	Wave Height Low (ft)	4
S8	21 Nov 2023	High Tide (ft)	4.52
S8	21 Nov 2023	High Tide Time	440
S8	21 Nov 2023	Low Tide (ft)	2.17
S8	21 Nov 2023	Low Tide Time	1035
S8	21 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-4
S8	28 Nov 2023	Arrive Time	1020
S8	28 Nov 2023	Weather	Sunny
S8	28 Nov 2023	Wind Speed (kts)	7.2
S8	28 Nov 2023	Wind Dir	NW
S8	28 Nov 2023	Animal Life	Bird-10;
S8	28 Nov 2023	Floatables	None
S8	28 Nov 2023	Water Color	Green
S8	28 Nov 2023	Current Direction	S
S8	28 Nov 2023	Water Temp (C)	13
S8	28 Nov 2023	Wave Height Low (ft)	3
S8	28 Nov 2023	High Tide (ft)	6.33
S8	28 Nov 2023	High Tide Time	836
S8	28 Nov 2023	Low Tide (ft)	2.07
S8	28 Nov 2023	Low Tide Time	225
S8	28 Nov 2023	Comments	Water clear; Trash-2; Kelp;Debris;Seagrass
S9	07 Nov 2023	Arrive Time	1035
S9	07 Nov 2023	Weather	Partly cloudy
S9	07 Nov 2023	Wind Speed (kts)	3
S9	07 Nov 2023	Wind Dir	SW
S9	07 Nov 2023	Animal Life	
S9	07 Nov 2023	Floatables	None
S9	07 Nov 2023	Water Color	Green
S9	07 Nov 2023	Current Direction	S
S9	07 Nov 2023	Water Temp (C)	16
S9	07 Nov 2023	Wave Height Low (ft)	3
S9	07 Nov 2023	High Tide (ft)	4.42
S9	07 Nov 2023	High Tide Time	553
S9	07 Nov 2023	Low Tide (ft)	2.14
S9	07 Nov 2023	Low Tide Time	1148
S9	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris; Person/Walker/Jogger-3

Station	Date	Parameter	Value
S9	14 Nov 2023	Arrive Time	1056
S9	14 Nov 2023	Weather	Sunny
S9	14 Nov 2023	Wind Speed (kts)	1.5
S9	14 Nov 2023	Wind Dir	W
S9	14 Nov 2023	Animal Life	
S9	14 Nov 2023	Floatables	None
S9	14 Nov 2023	Water Color	Green
S9	14 Nov 2023	Current Direction	S
S9	14 Nov 2023	Water Temp (C)	15
S9	14 Nov 2023	Wave Height Low (ft)	3
S9	14 Nov 2023	High Tide (ft)	6.15
S9	14 Nov 2023	High Tide Time	829
S9	14 Nov 2023	Low Tide (ft)	1.96
S9	14 Nov 2023	Low Tide Time	216
S9	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S9	21 Nov 2023	Arrive Time	1056
S9	21 Nov 2023	Weather	Sunny
S9	21 Nov 2023	Wind Speed (kts)	0
S9	21 Nov 2023	Wind Dir	
S9	21 Nov 2023	Animal Life	
S9	21 Nov 2023	Floatables	None
S9	21 Nov 2023	Water Color	Green
S9	21 Nov 2023	Current Direction	S
S9	21 Nov 2023	Water Temp (C)	20
S9	21 Nov 2023	Wave Height Low (ft)	3
S9	21 Nov 2023	High Tide (ft)	4.52
S9	21 Nov 2023	High Tide Time	440
S9	21 Nov 2023	Low Tide (ft)	2.17
S9	21 Nov 2023	Low Tide Time	1035
S9	21 Nov 2023	Comments	Water clear; Fisherperson-1; Trash-1; Kelp;Seagrass; Person/Walker/Jogger-1
S9	28 Nov 2023	Arrive Time	1036
S9	28 Nov 2023	Weather	Sunny
S9	28 Nov 2023	Wind Speed (kts)	1.7
S9	28 Nov 2023	Wind Dir	NW
S9	28 Nov 2023	Animal Life	
S9	28 Nov 2023	Floatables	None
S9	28 Nov 2023	Water Color	Green
S9	28 Nov 2023	Current Direction	S
S9	28 Nov 2023	Water Temp (C)	18
S9	28 Nov 2023	Wave Height Low (ft)	5
S9	28 Nov 2023	High Tide (ft)	6.33
S9	28 Nov 2023	High Tide Time	836
S9	28 Nov 2023	Low Tide (ft)	2.07
S9	28 Nov 2023	Low Tide Time	225
S9	28 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S10	07 Nov 2023	Arrive Time	806
S10	07 Nov 2023	Weather	Partly cloudy
S10	07 Nov 2023	Wind Speed (kts)	2.3
S10	07 Nov 2023	Wind Dir	W
S10	07 Nov 2023	Animal Life	
S10	07 Nov 2023	Floatables	None
S10	07 Nov 2023	Water Color	Green
S10	07 Nov 2023	Current Direction	S
S10	07 Nov 2023	Water Temp (C)	13
S10	07 Nov 2023	Wave Height Low (ft)	4

Station	Date	Parameter	Value
S10	07 Nov 2023	High Tide (ft)	4.42
S10	07 Nov 2023	High Tide Time	553
S10	07 Nov 2023	Low Tide (ft)	2.14
S10	07 Nov 2023	Low Tide Time	1148
S10	07 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S10	14 Nov 2023	Arrive Time	831
S10	14 Nov 2023	Weather	Sunny
S10	14 Nov 2023	Wind Speed (kts)	4.5
S10	14 Nov 2023	Wind Dir	W
S10	14 Nov 2023	Animal Life	
S10	14 Nov 2023	Floatables	None
S10	14 Nov 2023	Water Color	Green
S10	14 Nov 2023	Current Direction	S
S10	14 Nov 2023	Water Temp (C)	15
S10	14 Nov 2023	Wave Height Low (ft)	4
S10	14 Nov 2023	High Tide (ft)	6.15
S10	14 Nov 2023	High Tide Time	829
S10	14 Nov 2023	Low Tide (ft)	1.96
S10	14 Nov 2023	Low Tide Time	216
S10	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass
S10	21 Nov 2023	Arrive Time	826
S10	21 Nov 2023	Weather	Hazy
S10	21 Nov 2023	Wind Speed (kts)	0.5
S10	21 Nov 2023	Wind Dir	W
S10	21 Nov 2023	Animal Life	
S10	21 Nov 2023	Floatables	None
S10	21 Nov 2023	Water Color	Green
S10	21 Nov 2023	Current Direction	S
S10	21 Nov 2023	Water Temp (C)	18
S10	21 Nov 2023	Wave Height Low (ft)	4
S10	21 Nov 2023	High Tide (ft)	4.52
S10	21 Nov 2023	High Tide Time	440
S10	21 Nov 2023	Low Tide (ft)	2.17
S10	21 Nov 2023	Low Tide Time	1035
S10	21 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass
S10	28 Nov 2023	Arrive Time	816
S10	28 Nov 2023	Weather	Partly cloudy
S10	28 Nov 2023	Wind Speed (kts)	3.3
S10	28 Nov 2023	Wind Dir	N
S10	28 Nov 2023	Animal Life	
S10	28 Nov 2023	Floatables	None
S10	28 Nov 2023	Water Color	Green
S10	28 Nov 2023	Current Direction	S
S10	28 Nov 2023	Water Temp (C)	12
S10	28 Nov 2023	Wave Height Low (ft)	5
S10	28 Nov 2023	High Tide (ft)	6.33
S10	28 Nov 2023	High Tide Time	836
S10	28 Nov 2023	Low Tide (ft)	2.07
S10	28 Nov 2023	Low Tide Time	225
S10	28 Nov 2023	Comments	Water clear; Trash-3; Algae;Debris;Kelp
S11	07 Nov 2023	Arrive Time	923
S11	07 Nov 2023	Weather	Partly cloudy
S11	07 Nov 2023	Wind Speed (kts)	2
S11	07 Nov 2023	Wind Dir	W
S11	07 Nov 2023	Animal Life	
S11	07 Nov 2023	Floatables	None
S11	07 Nov 2023	Water Color	Green

Station	Date	Parameter	Value
S11	07 Nov 2023	Current Direction	S
S11	07 Nov 2023	Water Temp (C)	16
S11	07 Nov 2023	Wave Height Low (ft)	5
S11	07 Nov 2023	High Tide (ft)	4.42
S11	07 Nov 2023	High Tide Time	553
S11	07 Nov 2023	Low Tide (ft)	2.14
S11	07 Nov 2023	Low Tide Time	1148
S11	07 Nov 2023	Comments	Water clear; Trash-2; Kelp;Seagrass;Debris
S11	14 Nov 2023	Arrive Time	958
S11	14 Nov 2023	Weather	Sunny
S11	14 Nov 2023	Wind Speed (kts)	3.9
S11	14 Nov 2023	Wind Dir	W
S11	14 Nov 2023	Animal Life	
S11	14 Nov 2023	Floatables	None
S11	14 Nov 2023	Water Color	Green
S11	14 Nov 2023	Current Direction	S
S11	14 Nov 2023	Water Temp (C)	12
S11	14 Nov 2023	Wave Height Low (ft)	3
S11	14 Nov 2023	High Tide (ft)	6.15
S11	14 Nov 2023	High Tide Time	829
S11	14 Nov 2023	Low Tide (ft)	1.96
S11	14 Nov 2023	Low Tide Time	216
S11	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass
S11	21 Nov 2023	Arrive Time	951
S11	21 Nov 2023	Weather	Sunny
S11	21 Nov 2023	Wind Speed (kts)	3.9
S11	21 Nov 2023	Wind Dir	NW
S11	21 Nov 2023	Animal Life	
S11	21 Nov 2023	Floatables	None
S11	21 Nov 2023	Water Color	Green
S11	21 Nov 2023	Current Direction	S
S11	21 Nov 2023	Water Temp (C)	17
S11	21 Nov 2023	Wave Height Low (ft)	5
S11	21 Nov 2023	High Tide (ft)	4.52
S11	21 Nov 2023	High Tide Time	440
S11	21 Nov 2023	Low Tide (ft)	2.17
S11	21 Nov 2023	Low Tide Time	1035
S11	21 Nov 2023	Comments	Water clear; Trash-2; Seagrass;Kelp
S11	28 Nov 2023	Arrive Time	938
S11	28 Nov 2023	Weather	Sunny
S11	28 Nov 2023	Wind Speed (kts)	5.5
S11	28 Nov 2023	Wind Dir	N
S11	28 Nov 2023	Animal Life	
S11	28 Nov 2023	Floatables	None
S11	28 Nov 2023	Water Color	Green
S11	28 Nov 2023	Current Direction	S
S11	28 Nov 2023	Water Temp (C)	15
S11	28 Nov 2023	Wave Height Low (ft)	6
S11	28 Nov 2023	High Tide (ft)	6.33
S11	28 Nov 2023	High Tide Time	836
S11	28 Nov 2023	Low Tide (ft)	2.07
S11	28 Nov 2023	Low Tide Time	225
S11	28 Nov 2023	Comments	Water clear; Surfer/Paddle boarder-2; Trash-2; Seagrass;Debris; Person/Walker/Jogger-1
S12	07 Nov 2023	Arrive Time	957
S12	07 Nov 2023	Weather	Partly cloudy
S12	07 Nov 2023	Wind Speed (kts)	3.9

Station	Date	Parameter	Value
S12	07 Nov 2023	Wind Dir	SW
S12	07 Nov 2023	Animal Life	
S12	07 Nov 2023	Floatables	None
S12	07 Nov 2023	Water Color	Green
S12	07 Nov 2023	Current Direction	S
S12	07 Nov 2023	Water Temp (C)	16
S12	07 Nov 2023	Wave Height Low (ft)	4
S12	07 Nov 2023	High Tide (ft)	4.42
S12	07 Nov 2023	High Tide Time	553
S12	07 Nov 2023	Low Tide (ft)	2.14
S12	07 Nov 2023	Low Tide Time	1148
S12	07 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Debris
S12	14 Nov 2023	Arrive Time	1021
S12	14 Nov 2023	Weather	Sunny
S12	14 Nov 2023	Wind Speed (kts)	4.3
S12	14 Nov 2023	Wind Dir	W
S12	14 Nov 2023	Animal Life	
S12	14 Nov 2023	Floatables	None
S12	14 Nov 2023	Water Color	Green
S12	14 Nov 2023	Current Direction	S
S12	14 Nov 2023	Water Temp (C)	16
S12	14 Nov 2023	Wave Height Low (ft)	2
S12	14 Nov 2023	High Tide (ft)	6.15
S12	14 Nov 2023	High Tide Time	829
S12	14 Nov 2023	Low Tide (ft)	1.96
S12	14 Nov 2023	Low Tide Time	216
S12	14 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass;Algae; Person/Walker/Jogger-2
S12	21 Nov 2023	Arrive Time	1018
S12	21 Nov 2023	Weather	Sunny
S12	21 Nov 2023	Wind Speed (kts)	3.9
S12	21 Nov 2023	Wind Dir	W
S12	21 Nov 2023	Animal Life	
S12	21 Nov 2023	Floatables	None
S12	21 Nov 2023	Water Color	Green
S12	21 Nov 2023	Current Direction	S
S12	21 Nov 2023	Water Temp (C)	15
S12	21 Nov 2023	Wave Height Low (ft)	4
S12	21 Nov 2023	High Tide (ft)	4.52
S12	21 Nov 2023	High Tide Time	440
S12	21 Nov 2023	Low Tide (ft)	2.17
S12	21 Nov 2023	Low Tide Time	1035
S12	21 Nov 2023	Comments	Water clear; Trash-1; Kelp;Seagrass
S12	28 Nov 2023	Arrive Time	1004
S12	28 Nov 2023	Weather	Sunny
S12	28 Nov 2023	Wind Speed (kts)	3.9
S12	28 Nov 2023	Wind Dir	N
S12	28 Nov 2023	Animal Life	
S12	28 Nov 2023	Floatables	None
S12	28 Nov 2023	Water Color	Green
S12	28 Nov 2023	Current Direction	S
S12	28 Nov 2023	Water Temp (C)	13
S12	28 Nov 2023	Wave Height Low (ft)	5
S12	28 Nov 2023	High Tide (ft)	6.33
S12	28 Nov 2023	High Tide Time	836
S12	28 Nov 2023	Low Tide (ft)	2.07
S12	28 Nov 2023	Low Tide Time	225

Station	Date	Parameter	Value
S12	28 Nov 2023	Comments	Water clear; Trash-1; Seagrass;Debris

This page intentionally left blank

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 Nov 2023	19	22	27	5	7	2	109
02 Nov 2023	19	22	27	5	7	2	109
03 Nov 2023	19	22	27	5	7	2	109
04 Nov 2023	19	22	27	5	7	2	109
05 Nov 2023	19	22	27	5	7	2	109
06 Nov 2023	13	22	23	4	6	2	118
07 Nov 2023	13	22	23	4	6	2	118
08 Nov 2023	10	21	17	3	5	2	141
09 Nov 2023	10	21	17	3	5	2	141
10 Nov 2023	10	21	17	3	5	2	141
11 Nov 2023	10	21	17	3	5	2	141
12 Nov 2023	10	21	17	3	5	2	141
13 Nov 2023	10	25	11	3	4	2	146
14 Nov 2023	10	25	11	3	4	2	146
15 Nov 2023	9	48	17	3	5	2	120
16 Nov 2023	9	48	17	3	5	2	120
17 Nov 2023	9	48	17	3	5	2	120
18 Nov 2023	9	48	17	3	5	2	120
19 Nov 2023	9	48	17	3	5	2	120
20 Nov 2023	9	48	17	3	5	2	120
21 Nov 2023	31	25	11	3	5	2	**252**
22 Nov 2023	31	25	11	3	5	2	**252**
23 Nov 2023	34	19	8	2	6	2	**282**
24 Nov 2023	34	19	8	2	6	2	**282**
25 Nov 2023	34	19	8	2	6	2	**282**
26 Nov 2023	34	19	8	2	6	2	**282**
27 Nov 2023	34	19	8	2	6	2	**282**
28 Nov 2023	32	36	21	7	13	2	**362**
29 Nov 2023	45	33	15	10	7	2	**597**
30 Nov 2023	45	33	15	10	7	2	**597**

* Geometric mean calculated using n<5

Table 3.2

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

Date	I19	I24	I25	I26	I32	I39	I40
06 Nov 2023	IC	IC	IC	IC	IC	IC	**E**
13 Nov 2023	IC	IC	IC	IC	IC	IC	IC
21 Nov 2023	**E**	IC	IC	IC	IC	IC	**E**
28 Nov 2023	IC	**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 Nov 2023	21	23	23	11	4	4	**56**
02 Nov 2023	21	23	23	11	4	4	**56**
03 Nov 2023	21	23	23	11	4	4	**56**
04 Nov 2023	21	23	23	11	4	4	**56**
05 Nov 2023	21	23	23	11	4	4	**56**
06 Nov 2023	19	28	25	10	4	6	**59**
07 Nov 2023	19	28	25	10	4	6	**59**
08 Nov 2023	19	28	25	10	4	6	**59**
09 Nov 2023	19	28	25	10	4	6	**59**
10 Nov 2023	19	28	25	10	4	6	**59**
11 Nov 2023	19	28	25	10	4	6	**59**
12 Nov 2023	19	28	25	10	4	6	**59**
13 Nov 2023	25	**36**	27	6	4	3	**64**
14 Nov 2023	25	**36**	27	6	4	3	**64**
15 Nov 2023	25	**36**	27	6	4	3	**64**
16 Nov 2023	25	**36**	27	6	4	3	**64**
17 Nov 2023	25	**36**	27	6	4	3	**64**
18 Nov 2023	25	**36**	27	6	4	3	**64**
19 Nov 2023	25	**36**	27	6	4	3	**64**
20 Nov 2023	26	**35**	21	5	4	3	**75**
21 Nov 2023	**46**	21	14	4	4	3	**146**
22 Nov 2023	**46**	21	14	4	4	3	**146**
23 Nov 2023	**46**	21	14	4	4	3	**146**
24 Nov 2023	**46**	21	14	4	4	3	**146**
25 Nov 2023	**46**	21	14	4	4	3	**146**
26 Nov 2023	**46**	21	14	4	4	3	**146**
27 Nov 2023	**41**	26	16	5	4	3	**144**
28 Nov 2023	**32**	30	23	9	7	3	**158**
29 Nov 2023	**32**	30	23	9	7	3	**158**
30 Nov 2023	**32**	30	23	9	7	3	**158**

* 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
November	**E**	IC	**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 and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

	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
01 Nov 2023	**330**	47	30	**100**	**260**	14	**170**	50	36	**100**	11	14	20	20	50	2	4	6	**610**	**250**	**130**
02 Nov 2023	**330**	47	30	**100**	**260**	14	**170**	50	36	**100**	11	14	20	20	50	2	4	6	**610**	**250**	**130**
03 Nov 2023	**330**	47	30	**100**	**260**	14	**170**	50	36	**100**	11	14	20	20	50	2	4	6	**610**	**250**	**130**
04 Nov 2023	**330**	47	30	**100**	**260**	14	**170**	50	36	**100**	11	14	20	20	50	2	4	6	**610**	**250**	**130**
05 Nov 2023	**330**	47	30	**100**	**260**	14	**170**	50	36	**100**	11	14	20	20	50	2	4	6	**610**	**250**	**130**
06 Nov 2023	**200**	14	20	**100**	**280**	20	20	**80**	20	20	4	20	20	20	20	2	2	2	**420**	**300**	**200**
07 Nov 2023	**200**	14	20	**100**	**280**	20	20	**80**	20	20	4	20	20	20	20	2	2	2	**420**	**300**	**200**
08 Nov 2023	**103**	12	30	65	**390**	30	11	59	36	11	3	14	11	20	20	2	2	2	**610**	**550**	**260**
09 Nov 2023	**103**	12	30	65	**390**	30	11	59	36	11	3	14	11	20	20	2	2	2	**610**	**550**	**260**
10 Nov 2023	**103**	12	30	65	**390**	30	11	59	36	11	3	14	11	20	20	2	2	2	**610**	**550**	**260**
11 Nov 2023	**103**	12	30	65	**390**	30	11	59	36	11	3	14	11	20	20	2	2	2	**610**	**550**	**260**
12 Nov 2023	**103**	12	30	65	**390**	30	11	59	36	11	3	14	11	20	20	2	2	2	**610**	**550**	**260**
13 Nov 2023	6	14	20	**100**	**420**	20	14	20	20	2	2	8	2	20	20	2	2	2	**800**	**300**	**200**
14 Nov 2023	6	14	20	**100**	**420**	20	14	20	20	2	2	8	2	20	20	2	2	2	**800**	**300**	**200**
15 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
16 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
17 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
18 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
19 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
20 Nov 2023	4	47	30	**100**	**460**	30	8	59	33	2	3	14	2	20	20	2	2	2	**710**	**250**	**210**
21 Nov 2023	6	**80**	40	**100**	**420**	20	2	20	14	2	2	8	2	20	20	2	2	2	**1000**	**300**	**320**
22 Nov 2023	6	**80**	40	**100**	**420**	20	2	20	14	2	2	8	2	20	20	2	2	2	**1000**	**300**	**320**
23 Nov 2023	4	**257**	50	65	**350**	30	2	50	12	2	2	5	2	20	15	2	2	2	**760**	**850**	**260**
24 Nov 2023	4	**257**	50	65	**350**	30	2	50	12	2	2	5	2	20	15	2	2	2	**760**	**850**	**260**
25 Nov 2023	4	**257**	50	65	**350**	30	2	50	12	2	2	5	2	20	15	2	2	2	**760**	**850**	**260**
26 Nov 2023	4	**257**	50	65	**350**	30	2	50	12	2	2	5	2	20	15	2	2	2	**760**	**850**	**260**
27 Nov 2023	4	**257**	50	65	**350**	30	2	50	12	2	2	5	2	20	15	2	2	2	**760**	**850**	**260**
28 Nov 2023	6	40	**80**	**100**	**420**	40	2	**98**	14	2	2	8	2	20	20	2	2	2	**1100**	**1400**	**420**
29 Nov 2023	4	**270**	**90**	**275**	**350**	40	8	50	12	2	3	31	2	20	15	2	2	2	**2750**	**3200**	**4210**
30 Nov 2023	4	**270**	**90**	**275**	**350**	40	8	50	12	2	3	31	2	20	15	2	2	2	**2750**	**3200**	**4210**

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 by depth, per month.

Date	I19			I24			I25			I26			I32			I39			I40		
	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	12m	18m	2m	6m	9m
November	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	IC	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	Temp	XMS	DO	Sal	pH
I19	06 Nov 2023	1046	2	<2	2e	20e	16.1	75.57	8.6	33.16	8.2
I19	06 Nov 2023	1046	6	6e	6e	2e	15.8	81.24	8.2	33.18	8.1
I19	06 Nov 2023	1046	11	20e	<2	2e	15.7	59.30	7.4	33.18	8.1
I19	13 Nov 2023	1056	2	2e	<2	6e	15.8	79.02	8.2	33.20	8.1
I19	13 Nov 2023	1056	6	500	24e	30e	15.3	68.19	7.3	33.19	8.0
I19	13 Nov 2023	1056	11	<20	4e	4e	14.8	63.05	6.0	33.20	7.9
I19	21 Nov 2023	1047	2	>16000	5800	980	17.1	64.53	7.9	33.04	8.1
I19	21 Nov 2023	1047	6	>16000	4800	840	16.9	67.28	8.0	33.11	8.1
I19	21 Nov 2023	1047	11	>16000	4000	680	16.7	66.03	7.8	33.17	8.1
I19	28 Nov 2023	1051	2	6e	<2	<2	16.6	77.66	8.2	33.25	8.1
I19	28 Nov 2023	1051	6	40e	14e	6e	16.4	72.48	8.1	33.23	8.1
I19	28 Nov 2023	1051	11	160e	58	22e	16.3	67.94	8.2	33.23	8.1
I24	06 Nov 2023	1107	2	30e	10e	80e	16.4	73.21	9.4	33.16	8.2
I24	06 Nov 2023	1107	6	280e	38e	82	16.1	77.23	8.9	33.18	8.2
I24	06 Nov 2023	1107	11	60e	18e	26e	15.8	79.40	8.2	33.18	8.2
I24	13 Nov 2023	1117	2	520	60e	40e	15.8	68.39	8.0	33.14	8.0
I24	13 Nov 2023	1117	6	420	100e	80	15.3	67.03	6.9	33.19	8.0
I24	13 Nov 2023	1117	11	20e	10e	10e	14.8	68.99	6.0	33.20	7.9
I24	21 Nov 2023	1109	2	16e	<2	<2	17.3	79.86	8.2	33.15	8.1
I24	21 Nov 2023	1109	6	6e	<2	2e	17.1	76.77	8.4	33.15	8.1
I24	21 Nov 2023	1109	11	2e	<2	<2	16.8	72.18	7.4	33.15	8.1
I24	28 Nov 2023	1111	2	2600e	620	58	16.5	68.18	8.4	33.23	8.2
I24	28 Nov 2023	1111	6	960	500	58	16.4	67.62	8.1	33.23	8.1
I24	28 Nov 2023	1111	11	2400e	360e	52	16.4	46.92	7.8	33.23	8.1
I25	06 Nov 2023	1117	2	2e	<2	46	16.5	79.42	9.6	33.11	8.2
I25	06 Nov 2023	1117	6	98	34e	32e	16.1	82.18	8.7	33.17	8.2
I25	06 Nov 2023	1117	9	10e	<2	2e	15.8	79.98	7.9	33.18	8.1
I25	13 Nov 2023	1126	2	14e	<2	40	16.0	78.26	7.4	33.17	8.0
I25	13 Nov 2023	1126	6	2e	<2	<2	15.1	78.67	7.5	33.20	8.1
I25	13 Nov 2023	1126	9	14e	<2	4e	14.9	73.11	6.4	33.20	8.0
I25	21 Nov 2023	1116	2	<2	<2	<2	17.2	82.59	8.6	33.15	8.1
I25	21 Nov 2023	1116	6	<2	<2	<2	16.7	78.49	7.6	33.15	8.1
I25	21 Nov 2023	1116	9	2e	<2	<2	16.7	75.10	7.4	33.15	8.1
I25	28 Nov 2023	1118	2	3200e	600	70	16.5	72.27	8.3	33.22	8.2
I25	28 Nov 2023	1118	6	5400	2000e	220e	16.4	67.83	8.0	33.22	8.1
I25	28 Nov 2023	1118	9	4800	800	140e	16.4	63.47	7.8	33.22	8.1
I26	06 Nov 2023	1125	2	2e	<2	2e	16.6	69.58	9.9	33.19	8.3
I26	06 Nov 2023	1125	6	4e	<2	2e	15.8	80.95	8.3	33.18	8.2
I26	06 Nov 2023	1125	9	60e	2e	2e	15.8	78.06	7.8	33.18	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I26	13 Nov 2023	1136	2	<2	<2	<2	16.0	80.42	7.8	33.22	8.1
I26	13 Nov 2023	1136	6	<2	<2	<2	15.0	77.04	7.4	33.20	8.1
I26	13 Nov 2023	1136	9	<2	<2	<2	14.9	78.11	7.2	33.20	8.0
I26	21 Nov 2023	1126	2	<2	<2	<2	17.2	85.39	8.6	33.16	8.2
I26	21 Nov 2023	1126	6	<2	<2	<2	16.8	81.23	8.3	33.15	8.1
I26	21 Nov 2023	1126	9	2e	<2	<2	16.7	79.98	7.8	33.15	8.1
I26	28 Nov 2023	1126	2	1200	560	54	16.5	70.95	8.2	33.20	8.2
I26	28 Nov 2023	1126	6	6600	1800e	380e	16.2	68.14	7.9	33.19	8.1
I26	28 Nov 2023	1126	9	6600	1800e	90	16.2	68.02	7.7	33.20	8.1
I32	06 Nov 2023	1139	2	<2	2e	<2	16.7	52.78	11.7	33.20	8.4
I32	06 Nov 2023	1139	6	<2	<2	<2	16.0	76.05	8.7	33.20	8.2
I32	06 Nov 2023	1139	9	<2	<2	<2	15.8	80.21	7.7	33.20	8.1
I32	13 Nov 2023	1148	2	<2	<2	<2	15.9	75.70	8.6	33.21	8.1
I32	13 Nov 2023	1148	6	<20	<2	<2	15.2	62.39	7.1	33.21	8.0
I32	13 Nov 2023	1148	9	20e	<2	2e	14.9	57.70	6.1	33.20	7.9
I32	21 Nov 2023	1139	2	<2	<2	<2	17.3	82.01	8.7	33.15	8.2
I32	21 Nov 2023	1139	6	<20	2e	2e	16.9	67.66	8.2	33.14	8.1
I32	21 Nov 2023	1139	9	10e	6e	4e	16.7	60.81	6.9	33.14	8.0
I32	28 Nov 2023	1139	2	260e	100	34e	16.6	59.63	8.8	33.20	8.2
I32	28 Nov 2023	1139	6	1100	280e	160e	16.4	63.14	8.1	33.20	8.1
I32	28 Nov 2023	1139	9	1300	300e	160e	16.4	62.55	8.2	33.20	8.1
I39	06 Nov 2023	1027	2	10e	2e	90	16.3	83.62	9.2	33.17	8.2
I39	06 Nov 2023	1027	12	<2	<2	<2	15.2	86.40	7.9	33.18	8.1
I39	06 Nov 2023	1027	18	<2	<2	<2	15.1	86.48	7.7	33.18	8.1
I39	13 Nov 2023	1032	2	<2	<2	<2	16.4	86.85	8.2	33.23	8.1
I39	13 Nov 2023	1032	12	<2	<2	<2	15.8	85.70	8.4	33.21	8.1
I39	13 Nov 2023	1032	18	<2	<2	<2	14.6	85.95	7.5	33.20	8.0
I39	21 Nov 2023	1025	2	<2	<2	<2	17.4	90.12	8.2	33.23	8.1
I39	21 Nov 2023	1025	12	<2	<2	<2	17.1	90.19	8.2	33.21	8.1
I39	21 Nov 2023	1025	18	<2	<2	<2	16.3	84.15	7.9	33.17	8.1
I39	28 Nov 2023	1009	2	<2	<2	<2	16.9	89.37	8.0	33.30	8.1
I39	28 Nov 2023	1009	12	4e	<2	<2	16.8	87.88	8.0	33.29	8.1
I39	28 Nov 2023	1009	18	16e	6e	<2	16.6	83.08	8.0	33.26	8.1
I40	06 Nov 2023	1058	2	<20	8e	14e	16.3	75.89	7.9	33.18	8.1
I40	06 Nov 2023	1058	6	1400e	420	180e	16.0	65.30	8.4	33.17	8.2
I40	06 Nov 2023	1058	9	420	60e	42	15.8	76.05	7.4	33.19	8.1
I40	13 Nov 2023	1108	2	1100	380e	80e	15.4	62.86	7.8	33.19	8.0
I40	13 Nov 2023	1108	6	160e	96	68	15.3	66.06	7.2	33.20	8.0
I40	13 Nov 2023	1108	9	100e	18e	4e	14.9	58.22	5.6	33.20	7.9
I40	21 Nov 2023	1100	2	>16000	>12000	>12000	17.3	55.28	8.3	33.02	8.1
I40	21 Nov 2023	1100	6	10000	700	70	16.9	76.90	7.5	33.16	8.1
I40	21 Nov 2023	1100	9	>16000	1800e	220e	16.8	60.49	7.6	33.18	8.1
I40	28 Nov 2023	1103	2	4400	540	84	16.4	63.58	8.4	33.20	8.1
I40	28 Nov 2023	1103	6	5000	800	280e	16.3	58.72	8.0	33.20	8.1
I40	28 Nov 2023	1103	9	8000	1600e	400	16.1	62.29	8.1	33.19	8.1

ns = not sampled
ND = no data

Table 3.8

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

Station	Date	Parameter	Value
I19	06 Nov 2023	Depth (m)	11
I19	06 Nov 2023	Arrive Time	1046
I19	06 Nov 2023	Depart Time	1050
I19	06 Nov 2023	Air Temp (C)	16.2
I19	06 Nov 2023	Weather	Clear
I19	06 Nov 2023	Visibility (mi)	11
I19	06 Nov 2023	Wind Speed (kts)	3.2
I19	06 Nov 2023	Wind Dir	NW
I19	06 Nov 2023	Water Color	Greenish-Brown
I19	06 Nov 2023	Wave Ht Low (ft)	3.3
I19	06 Nov 2023	Wave Period (sec)	13
I19	06 Nov 2023	Sea State	Calm
I19	06 Nov 2023	High Tide (ft)	4.14
I19	06 Nov 2023	High Tide Time	536
I19	06 Nov 2023	Low Tide (ft)	0.71
I19	06 Nov 2023	Low Tide Time	2300
I19	06 Nov 2023	Comments	none
I19	13 Nov 2023	Depth (m)	13
I19	13 Nov 2023	Arrive Time	1050
I19	13 Nov 2023	Depart Time	1056
I19	13 Nov 2023	Air Temp (C)	17
I19	13 Nov 2023	Weather	Haze
I19	13 Nov 2023	Visibility (mi)	7
I19	13 Nov 2023	Wind Speed (kts)	4.5
I19	13 Nov 2023	Wind Dir	SW
I19	13 Nov 2023	Water Color	Brownish-Green
I19	13 Nov 2023	Wave Ht Low (ft)	4
I19	13 Nov 2023	Wave Period (sec)	15
I19	13 Nov 2023	Sea State	Calm
I19	13 Nov 2023	High Tide (ft)	6.11
I19	13 Nov 2023	High Tide Time	800
I19	13 Nov 2023	Low Tide (ft)	-0.51
I19	13 Nov 2023	Low Tide Time	1506
I19	13 Nov 2023	Comments	none
I19	21 Nov 2023	Depth (m)	12
I19	21 Nov 2023	Arrive Time	1047
I19	21 Nov 2023	Depart Time	1051
I19	21 Nov 2023	Air Temp (C)	18.2
I19	21 Nov 2023	Weather	Clear
I19	21 Nov 2023	Visibility (mi)	10
I19	21 Nov 2023	Wind Speed (kts)	1.4
I19	21 Nov 2023	Wind Dir	W
I19	21 Nov 2023	Water Color	Green
I19	21 Nov 2023	Wave Ht Low (ft)	3
I19	21 Nov 2023	Wave Period (sec)	13
I19	21 Nov 2023	Sea State	Regular Swell
I19	21 Nov 2023	High Tide (ft)	4.48
I19	21 Nov 2023	High Tide Time	442
I19	21 Nov 2023	Low Tide (ft)	0.28
I19	21 Nov 2023	Low Tide Time	2236
I19	21 Nov 2023	Comments	Freshwater Lens
I19	28 Nov 2023	Depth (m)	11
I19	28 Nov 2023	Arrive Time	1051

Station	Date	Parameter	Value
I19	28 Nov 2023	Depart Time	1055
I19	28 Nov 2023	Air Temp (C)	16.6
I19	28 Nov 2023	Weather	Partly Cloudy
I19	28 Nov 2023	Visibility (mi)	10
I19	28 Nov 2023	Wind Speed (kts)	2.9
I19	28 Nov 2023	Wind Dir	NW
I19	28 Nov 2023	Water Color	Green
I19	28 Nov 2023	Wave Ht Low (ft)	4
I19	28 Nov 2023	Wave Period (sec)	14
I19	28 Nov 2023	Sea State	Light Chop
I19	28 Nov 2023	High Tide (ft)	6.4
I19	28 Nov 2023	High Tide Time	836
I19	28 Nov 2023	Low Tide (ft)	-0.98
I19	28 Nov 2023	Low Tide Time	1600
I19	28 Nov 2023	Comments	none
I24	06 Nov 2023	Depth (m)	10
I24	06 Nov 2023	Arrive Time	1107
I24	06 Nov 2023	Depart Time	1110
I24	06 Nov 2023	Air Temp (C)	16
I24	06 Nov 2023	Weather	Clear
I24	06 Nov 2023	Visibility (mi)	11
I24	06 Nov 2023	Wind Speed (kts)	9.5
I24	06 Nov 2023	Wind Dir	W
I24	06 Nov 2023	Water Color	Greenish-Brown
I24	06 Nov 2023	Wave Ht Low (ft)	3.3
I24	06 Nov 2023	Wave Period (sec)	13
I24	06 Nov 2023	Sea State	Calm
I24	06 Nov 2023	High Tide (ft)	4.14
I24	06 Nov 2023	High Tide Time	536
I24	06 Nov 2023	Low Tide (ft)	0.71
I24	06 Nov 2023	Low Tide Time	2300
I24	06 Nov 2023	Comments	none
I24	13 Nov 2023	Depth (m)	10
I24	13 Nov 2023	Arrive Time	1113
I24	13 Nov 2023	Depart Time	1117
I24	13 Nov 2023	Air Temp (C)	17.2
I24	13 Nov 2023	Weather	Haze
I24	13 Nov 2023	Visibility (mi)	7
I24	13 Nov 2023	Wind Speed (kts)	5.6
I24	13 Nov 2023	Wind Dir	W
I24	13 Nov 2023	Water Color	Brownish-Green
I24	13 Nov 2023	Wave Ht Low (ft)	4
I24	13 Nov 2023	Wave Period (sec)	15
I24	13 Nov 2023	Sea State	Calm
I24	13 Nov 2023	High Tide (ft)	6.11
I24	13 Nov 2023	High Tide Time	800
I24	13 Nov 2023	Low Tide (ft)	-0.51
I24	13 Nov 2023	Low Tide Time	1506
I24	13 Nov 2023	Comments	none
I24	21 Nov 2023	Depth (m)	10
I24	21 Nov 2023	Arrive Time	1109
I24	21 Nov 2023	Depart Time	1112
I24	21 Nov 2023	Air Temp (C)	18
I24	21 Nov 2023	Weather	Clear
I24	21 Nov 2023	Visibility (mi)	10
I24	21 Nov 2023	Wind Speed (kts)	2
I24	21 Nov 2023	Wind Dir	NW
I24	21 Nov 2023	Water Color	Green

Station	Date	Parameter	Value
I24	21 Nov 2023	Wave Ht Low (ft)	3
I24	21 Nov 2023	Wave Period (sec)	13
I24	21 Nov 2023	Sea State	Regular Swell
I24	21 Nov 2023	High Tide (ft)	4.48
I24	21 Nov 2023	High Tide Time	442
I24	21 Nov 2023	Low Tide (ft)	0.28
I24	21 Nov 2023	Low Tide Time	2236
I24	21 Nov 2023	Comments	none
I24	28 Nov 2023	Depth (m)	11
I24	28 Nov 2023	Arrive Time	1111
I24	28 Nov 2023	Depart Time	1116
I24	28 Nov 2023	Air Temp (C)	16.6
I24	28 Nov 2023	Weather	Partly Cloudy
I24	28 Nov 2023	Visibility (mi)	10
I24	28 Nov 2023	Wind Speed (kts)	7.3
I24	28 Nov 2023	Wind Dir	W
I24	28 Nov 2023	Water Color	Green
I24	28 Nov 2023	Wave Ht Low (ft)	4
I24	28 Nov 2023	Wave Period (sec)	14
I24	28 Nov 2023	Sea State	Light Chop
I24	28 Nov 2023	High Tide (ft)	6.4
I24	28 Nov 2023	High Tide Time	836
I24	28 Nov 2023	Low Tide (ft)	-0.98
I24	28 Nov 2023	Low Tide Time	1600
I24	28 Nov 2023	Comments	none
I25	06 Nov 2023	Depth (m)	9
I25	06 Nov 2023	Arrive Time	1117
I25	06 Nov 2023	Depart Time	1119
I25	06 Nov 2023	Air Temp (C)	16.3
I25	06 Nov 2023	Weather	Clear
I25	06 Nov 2023	Visibility (mi)	11
I25	06 Nov 2023	Wind Speed (kts)	1.9
I25	06 Nov 2023	Wind Dir	W
I25	06 Nov 2023	Water Color	Greenish-Brown
I25	06 Nov 2023	Wave Ht Low (ft)	3.3
I25	06 Nov 2023	Wave Period (sec)	13
I25	06 Nov 2023	Sea State	Calm
I25	06 Nov 2023	High Tide (ft)	4.14
I25	06 Nov 2023	High Tide Time	536
I25	06 Nov 2023	Low Tide (ft)	0.71
I25	06 Nov 2023	Low Tide Time	2300
I25	06 Nov 2023	Comments	none
I25	13 Nov 2023	Depth (m)	9
I25	13 Nov 2023	Arrive Time	1122
I25	13 Nov 2023	Depart Time	1126
I25	13 Nov 2023	Air Temp (C)	17.2
I25	13 Nov 2023	Weather	Haze
I25	13 Nov 2023	Visibility (mi)	8
I25	13 Nov 2023	Wind Speed (kts)	5.9
I25	13 Nov 2023	Wind Dir	SW
I25	13 Nov 2023	Water Color	Green
I25	13 Nov 2023	Wave Ht Low (ft)	4
I25	13 Nov 2023	Wave Period (sec)	15
I25	13 Nov 2023	Sea State	Calm
I25	13 Nov 2023	High Tide (ft)	6.11
I25	13 Nov 2023	High Tide Time	800
I25	13 Nov 2023	Low Tide (ft)	-0.51
I25	13 Nov 2023	Low Tide Time	1506

Station	Date	Parameter	Value
I25	13 Nov 2023	Comments	none
I25	21 Nov 2023	Depth (m)	9
I25	21 Nov 2023	Arrive Time	1116
I25	21 Nov 2023	Depart Time	1119
I25	21 Nov 2023	Air Temp (C)	18
I25	21 Nov 2023	Weather	Clear
I25	21 Nov 2023	Visibility (mi)	10
I25	21 Nov 2023	Wind Speed (kts)	1.9
I25	21 Nov 2023	Wind Dir	NW
I25	21 Nov 2023	Water Color	Green
I25	21 Nov 2023	Wave Ht Low (ft)	3
I25	21 Nov 2023	Wave Period (sec)	13
I25	21 Nov 2023	Sea State	Regular Swell
I25	21 Nov 2023	High Tide (ft)	4.48
I25	21 Nov 2023	High Tide Time	442
I25	21 Nov 2023	Low Tide (ft)	0.28
I25	21 Nov 2023	Low Tide Time	2236
I25	21 Nov 2023	Comments	none
I25	28 Nov 2023	Depth (m)	9
I25	28 Nov 2023	Arrive Time	1118
I25	28 Nov 2023	Depart Time	1122
I25	28 Nov 2023	Air Temp (C)	16.6
I25	28 Nov 2023	Weather	Partly Cloudy
I25	28 Nov 2023	Visibility (mi)	10
I25	28 Nov 2023	Wind Speed (kts)	7.9
I25	28 Nov 2023	Wind Dir	W
I25	28 Nov 2023	Water Color	Green
I25	28 Nov 2023	Wave Ht Low (ft)	4
I25	28 Nov 2023	Wave Period (sec)	14
I25	28 Nov 2023	Sea State	Light Chop
I25	28 Nov 2023	High Tide (ft)	6.4
I25	28 Nov 2023	High Tide Time	836
I25	28 Nov 2023	Low Tide (ft)	-0.98
I25	28 Nov 2023	Low Tide Time	1600
I25	28 Nov 2023	Comments	none
I26	06 Nov 2023	Depth (m)	9
I26	06 Nov 2023	Arrive Time	1125
I26	06 Nov 2023	Depart Time	1130
I26	06 Nov 2023	Air Temp (C)	16.2
I26	06 Nov 2023	Weather	Clear
I26	06 Nov 2023	Visibility (mi)	11
I26	06 Nov 2023	Wind Speed (kts)	0.5
I26	06 Nov 2023	Wind Dir	NE
I26	06 Nov 2023	Water Color	Brown
I26	06 Nov 2023	Wave Ht Low (ft)	3.3
I26	06 Nov 2023	Wave Period (sec)	13
I26	06 Nov 2023	Sea State	Calm
I26	06 Nov 2023	High Tide (ft)	4.14
I26	06 Nov 2023	High Tide Time	536
I26	06 Nov 2023	Low Tide (ft)	0.71
I26	06 Nov 2023	Low Tide Time	2300
I26	06 Nov 2023	Comments	none
I26	13 Nov 2023	Depth (m)	9
I26	13 Nov 2023	Arrive Time	1132
I26	13 Nov 2023	Depart Time	1136
I26	13 Nov 2023	Air Temp (C)	17.1
I26	13 Nov 2023	Weather	Haze

Station	Date	Parameter	Value
I26	13 Nov 2023	Visibility (mi)	8
I26	13 Nov 2023	Wind Speed (kts)	0
I26	13 Nov 2023	Wind Dir	NW
I26	13 Nov 2023	Water Color	Green
I26	13 Nov 2023	Wave Ht Low (ft)	4
I26	13 Nov 2023	Wave Period (sec)	15
I26	13 Nov 2023	Sea State	Calm
I26	13 Nov 2023	High Tide (ft)	6.11
I26	13 Nov 2023	High Tide Time	800
I26	13 Nov 2023	Low Tide (ft)	-0.51
I26	13 Nov 2023	Low Tide Time	1506
I26	13 Nov 2023	Comments	none
I26	21 Nov 2023	Depth (m)	9
I26	21 Nov 2023	Arrive Time	1126
I26	21 Nov 2023	Depart Time	1129
I26	21 Nov 2023	Air Temp (C)	18.3
I26	21 Nov 2023	Weather	Clear
I26	21 Nov 2023	Visibility (mi)	10
I26	21 Nov 2023	Wind Speed (kts)	7.3
I26	21 Nov 2023	Wind Dir	NW
I26	21 Nov 2023	Water Color	Green
I26	21 Nov 2023	Wave Ht Low (ft)	3
I26	21 Nov 2023	Wave Period (sec)	13
I26	21 Nov 2023	Sea State	Regular Swell
I26	21 Nov 2023	High Tide (ft)	4.48
I26	21 Nov 2023	High Tide Time	442
I26	21 Nov 2023	Low Tide (ft)	0.28
I26	21 Nov 2023	Low Tide Time	2236
I26	21 Nov 2023	Comments	none
I26	28 Nov 2023	Depth (m)	12
I26	28 Nov 2023	Arrive Time	1126
I26	28 Nov 2023	Depart Time	1131
I26	28 Nov 2023	Air Temp (C)	16.8
I26	28 Nov 2023	Weather	Partly Cloudy
I26	28 Nov 2023	Visibility (mi)	10
I26	28 Nov 2023	Wind Speed (kts)	8.5
I26	28 Nov 2023	Wind Dir	NW
I26	28 Nov 2023	Water Color	Green
I26	28 Nov 2023	Wave Ht Low (ft)	4
I26	28 Nov 2023	Wave Period (sec)	14
I26	28 Nov 2023	Sea State	Light Chop
I26	28 Nov 2023	High Tide (ft)	6.4
I26	28 Nov 2023	High Tide Time	836
I26	28 Nov 2023	Low Tide (ft)	-0.98
I26	28 Nov 2023	Low Tide Time	1600
I26	28 Nov 2023	Comments	none
I32	06 Nov 2023	Depth (m)	11
I32	06 Nov 2023	Arrive Time	1139
I32	06 Nov 2023	Depart Time	1143
I32	06 Nov 2023	Air Temp (C)	16.5
I32	06 Nov 2023	Weather	Clear
I32	06 Nov 2023	Visibility (mi)	11
I32	06 Nov 2023	Wind Speed (kts)	6.4
I32	06 Nov 2023	Wind Dir	W
I32	06 Nov 2023	Water Color	Brown
I32	06 Nov 2023	Wave Ht Low (ft)	3.3
I32	06 Nov 2023	Wave Period (sec)	13
I32	06 Nov 2023	Sea State	Calm

Station	Date	Parameter	Value
I32	06 Nov 2023	High Tide (ft)	4.14
I32	06 Nov 2023	High Tide Time	536
I32	06 Nov 2023	Low Tide (ft)	0.71
I32	06 Nov 2023	Low Tide Time	2300
I32	06 Nov 2023	Comments	none
I32	13 Nov 2023	Depth (m)	10
I32	13 Nov 2023	Arrive Time	1144
I32	13 Nov 2023	Depart Time	1148
I32	13 Nov 2023	Air Temp (C)	17
I32	13 Nov 2023	Weather	Haze
I32	13 Nov 2023	Visibility (mi)	8
I32	13 Nov 2023	Wind Speed (kts)	3.4
I32	13 Nov 2023	Wind Dir	N
I32	13 Nov 2023	Water Color	Green
I32	13 Nov 2023	Wave Ht Low (ft)	4
I32	13 Nov 2023	Wave Period (sec)	15
I32	13 Nov 2023	Sea State	Calm
I32	13 Nov 2023	High Tide (ft)	6.11
I32	13 Nov 2023	High Tide Time	800
I32	13 Nov 2023	Low Tide (ft)	-0.51
I32	13 Nov 2023	Low Tide Time	1506
I32	13 Nov 2023	Comments	none
I32	21 Nov 2023	Depth (m)	10
I32	21 Nov 2023	Arrive Time	1139
I32	21 Nov 2023	Depart Time	1143
I32	21 Nov 2023	Air Temp (C)	18.7
I32	21 Nov 2023	Weather	Clear
I32	21 Nov 2023	Visibility (mi)	10
I32	21 Nov 2023	Wind Speed (kts)	5.6
I32	21 Nov 2023	Wind Dir	W
I32	21 Nov 2023	Water Color	Green
I32	21 Nov 2023	Wave Ht Low (ft)	3
I32	21 Nov 2023	Wave Period (sec)	13
I32	21 Nov 2023	Sea State	Regular Swell
I32	21 Nov 2023	High Tide (ft)	4.48
I32	21 Nov 2023	High Tide Time	442
I32	21 Nov 2023	Low Tide (ft)	0.28
I32	21 Nov 2023	Low Tide Time	2236
I32	21 Nov 2023	Comments	none
I32	28 Nov 2023	Depth (m)	11
I32	28 Nov 2023	Arrive Time	1139
I32	28 Nov 2023	Depart Time	1143
I32	28 Nov 2023	Air Temp (C)	16.8
I32	28 Nov 2023	Weather	Partly Cloudy
I32	28 Nov 2023	Visibility (mi)	10
I32	28 Nov 2023	Wind Speed (kts)	9.6
I32	28 Nov 2023	Wind Dir	NW
I32	28 Nov 2023	Water Color	Brownish-Green
I32	28 Nov 2023	Wave Ht Low (ft)	4
I32	28 Nov 2023	Wave Period (sec)	14
I32	28 Nov 2023	Sea State	Light Chop
I32	28 Nov 2023	High Tide (ft)	6.4
I32	28 Nov 2023	High Tide Time	836
I32	28 Nov 2023	Low Tide (ft)	-0.98
I32	28 Nov 2023	Low Tide Time	1600
I32	28 Nov 2023	Comments	none
I39	06 Nov 2023	Depth (m)	20

Station	Date	Parameter	Value
I39	06 Nov 2023	Arrive Time	1027
I39	06 Nov 2023	Depart Time	1029
I39	06 Nov 2023	Air Temp (C)	15.6
I39	06 Nov 2023	Weather	Clear
I39	06 Nov 2023	Visibility (mi)	10
I39	06 Nov 2023	Wind Speed (kts)	2
I39	06 Nov 2023	Wind Dir	SE
I39	06 Nov 2023	Water Color	Blue
I39	06 Nov 2023	Wave Ht Low (ft)	3.3
I39	06 Nov 2023	Wave Period (sec)	13
I39	06 Nov 2023	Sea State	Calm
I39	06 Nov 2023	High Tide (ft)	4.14
I39	06 Nov 2023	High Tide Time	536
I39	06 Nov 2023	Low Tide (ft)	0.71
I39	06 Nov 2023	Low Tide Time	2300
I39	06 Nov 2023	Comments	none
I39	13 Nov 2023	Depth (m)	20
I39	13 Nov 2023	Arrive Time	1027
I39	13 Nov 2023	Depart Time	1032
I39	13 Nov 2023	Air Temp (C)	17.2
I39	13 Nov 2023	Weather	Clear
I39	13 Nov 2023	Visibility (mi)	7
I39	13 Nov 2023	Wind Speed (kts)	4.9
I39	13 Nov 2023	Wind Dir	W
I39	13 Nov 2023	Water Color	Blueish-Green
I39	13 Nov 2023	Wave Ht Low (ft)	4
I39	13 Nov 2023	Wave Period (sec)	15
I39	13 Nov 2023	Sea State	Calm
I39	13 Nov 2023	High Tide (ft)	6.11
I39	13 Nov 2023	High Tide Time	800
I39	13 Nov 2023	Low Tide (ft)	-0.51
I39	13 Nov 2023	Low Tide Time	1506
I39	13 Nov 2023	Comments	none
I39	21 Nov 2023	Depth (m)	19
I39	21 Nov 2023	Arrive Time	1025
I39	21 Nov 2023	Depart Time	1030
I39	21 Nov 2023	Air Temp (C)	17.7
I39	21 Nov 2023	Weather	Clear
I39	21 Nov 2023	Visibility (mi)	10
I39	21 Nov 2023	Wind Speed (kts)	4.4
I39	21 Nov 2023	Wind Dir	N
I39	21 Nov 2023	Water Color	Green
I39	21 Nov 2023	Wave Ht Low (ft)	3
I39	21 Nov 2023	Wave Period (sec)	13
I39	21 Nov 2023	Sea State	Regular Swell
I39	21 Nov 2023	High Tide (ft)	4.48
I39	21 Nov 2023	High Tide Time	442
I39	21 Nov 2023	Low Tide (ft)	0.28
I39	21 Nov 2023	Low Tide Time	2236
I39	21 Nov 2023	Comments	none
I39	28 Nov 2023	Depth (m)	20
I39	28 Nov 2023	Arrive Time	1009
I39	28 Nov 2023	Depart Time	1014
I39	28 Nov 2023	Air Temp (C)	16.5
I39	28 Nov 2023	Weather	Partly Cloudy
I39	28 Nov 2023	Visibility (mi)	10
I39	28 Nov 2023	Wind Speed (kts)	5.5
I39	28 Nov 2023	Wind Dir	NW

Station	Date	Parameter	Value
I39	28 Nov 2023	Water Color	Green
I39	28 Nov 2023	Wave Ht Low (ft)	4
I39	28 Nov 2023	Wave Period (sec)	14
I39	28 Nov 2023	Sea State	Light Chop
I39	28 Nov 2023	High Tide (ft)	6.4
I39	28 Nov 2023	High Tide Time	836
I39	28 Nov 2023	Low Tide (ft)	-0.98
I39	28 Nov 2023	Low Tide Time	1600
I39	28 Nov 2023	Comments	none
I40	06 Nov 2023	Depth (m)	10
I40	06 Nov 2023	Arrive Time	1058
I40	06 Nov 2023	Depart Time	1107
I40	06 Nov 2023	Air Temp (C)	15.9
I40	06 Nov 2023	Weather	Clear
I40	06 Nov 2023	Visibility (mi)	11
I40	06 Nov 2023	Wind Speed (kts)	6.9
I40	06 Nov 2023	Wind Dir	NW
I40	06 Nov 2023	Water Color	Greenish-Brown
I40	06 Nov 2023	Wave Ht Low (ft)	3.3
I40	06 Nov 2023	Wave Period (sec)	13
I40	06 Nov 2023	Sea State	Calm
I40	06 Nov 2023	High Tide (ft)	4.14
I40	06 Nov 2023	High Tide Time	536
I40	06 Nov 2023	Low Tide (ft)	0.71
I40	06 Nov 2023	Low Tide Time	2300
I40	06 Nov 2023	Comments	none
I40	13 Nov 2023	Depth (m)	10
I40	13 Nov 2023	Arrive Time	1104
I40	13 Nov 2023	Depart Time	1108
I40	13 Nov 2023	Air Temp (C)	17.5
I40	13 Nov 2023	Weather	Haze
I40	13 Nov 2023	Visibility (mi)	7
I40	13 Nov 2023	Wind Speed (kts)	8.4
I40	13 Nov 2023	Wind Dir	W
I40	13 Nov 2023	Water Color	Brownish-Green
I40	13 Nov 2023	Wave Ht Low (ft)	4
I40	13 Nov 2023	Wave Period (sec)	15
I40	13 Nov 2023	Sea State	Calm
I40	13 Nov 2023	High Tide (ft)	6.11
I40	13 Nov 2023	High Tide Time	800
I40	13 Nov 2023	Low Tide (ft)	-0.51
I40	13 Nov 2023	Low Tide Time	1506
I40	13 Nov 2023	Comments	none
I40	21 Nov 2023	Depth (m)	10
I40	21 Nov 2023	Arrive Time	1100
I40	21 Nov 2023	Depart Time	1105
I40	21 Nov 2023	Air Temp (C)	17.9
I40	21 Nov 2023	Weather	Clear
I40	21 Nov 2023	Visibility (mi)	10
I40	21 Nov 2023	Wind Speed (kts)	3.5
I40	21 Nov 2023	Wind Dir	NW
I40	21 Nov 2023	Water Color	Brownish-Green
I40	21 Nov 2023	Wave Ht Low (ft)	3
I40	21 Nov 2023	Wave Period (sec)	13
I40	21 Nov 2023	Sea State	Regular Swell
I40	21 Nov 2023	High Tide (ft)	4.48
I40	21 Nov 2023	High Tide Time	442
I40	21 Nov 2023	Low Tide (ft)	0.28

Station	Date	Parameter	Value
I40	21 Nov 2023	Low Tide Time	2236
I40	21 Nov 2023	Comments	Freshwater Lens
I40	28 Nov 2023	Depth (m)	11
I40	28 Nov 2023	Arrive Time	1103
I40	28 Nov 2023	Depart Time	1107
I40	28 Nov 2023	Air Temp (C)	16.6
I40	28 Nov 2023	Weather	Partly Cloudy
I40	28 Nov 2023	Visibility (mi)	10
I40	28 Nov 2023	Wind Speed (kts)	5.9
I40	28 Nov 2023	Wind Dir	NW
I40	28 Nov 2023	Water Color	Green
I40	28 Nov 2023	Wave Ht Low (ft)	4
I40	28 Nov 2023	Wave Period (sec)	14
I40	28 Nov 2023	Sea State	Light Chop
I40	28 Nov 2023	High Tide (ft)	6.4
I40	28 Nov 2023	High Tide Time	836
I40	28 Nov 2023	Low Tide (ft)	-0.98
I40	28 Nov 2023	Low Tide Time	1600
I40	28 Nov 2023	Comments	none

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 (σ-t)	Chlor (µg/L)
I19	06 Nov 2023	1	16.30	74.48	8.4	33.16	8.1	24.3	0.93
I19	06 Nov 2023	2	16.11	75.57	8.6	33.16	8.2	24.3	1.14
I19	06 Nov 2023	3	15.99	76.82	8.8	33.17	8.2	24.3	2.70
I19	06 Nov 2023	4	15.92	74.48	8.5	33.18	8.2	24.4	3.89
I19	06 Nov 2023	5	15.85	74.73	8.3	33.18	8.2	24.4	3.06
I19	06 Nov 2023	6	15.84	81.24	8.2	33.18	8.1	24.4	2.20
I19	06 Nov 2023	7	15.83	83.01	8.1	33.18	8.1	24.4	1.92
I19	06 Nov 2023	8	15.77	81.56	7.8	33.18	8.1	24.4	1.72
I19	06 Nov 2023	9	15.74	74.04	7.6	33.18	8.1	24.4	1.79
I19	06 Nov 2023	10	15.73	59.30	7.4	33.18	8.1	24.4	1.83
I19	13 Nov 2023	1	15.92	78.90	8.2	33.19	8.1	24.4	1.03
I19	13 Nov 2023	2	15.84	79.02	8.2	33.20	8.1	24.4	0.99
I19	13 Nov 2023	3	15.68	78.68	8.2	33.20	8.1	24.4	1.14
I19	13 Nov 2023	4	15.52	75.48	8.1	33.19	8.1	24.5	1.63
I19	13 Nov 2023	5	15.38	70.60	7.8	33.20	8.1	24.5	2.36
I19	13 Nov 2023	6	15.27	68.19	7.3	33.19	8.0	24.5	2.75
I19	13 Nov 2023	7	15.07	66.04	6.8	33.20	8.0	24.6	2.31
I19	13 Nov 2023	8	14.84	71.37	6.3	33.21	8.0	24.6	1.92
I19	13 Nov 2023	9	14.81	70.51	6.1	33.20	7.9	24.6	2.06
I19	13 Nov 2023	10	14.78	63.05	6.0	33.20	7.9	24.6	2.01
I19	21 Nov 2023	1	17.17	63.84	7.9	32.83	8.1	23.8	0.81
I19	21 Nov 2023	2	17.11	64.53	7.9	33.04	8.1	24.0	1.16
I19	21 Nov 2023	3	17.05	68.19	8.1	33.09	8.1	24.0	3.25
I19	21 Nov 2023	4	17.02	69.67	8.2	33.10	8.1	24.1	6.99
I19	21 Nov 2023	5	16.97	67.60	8.0	33.10	8.1	24.1	6.27
I19	21 Nov 2023	6	16.87	67.28	8.0	33.11	8.1	24.1	4.15
I19	21 Nov 2023	7	16.82	71.13	8.0	33.14	8.1	24.1	2.83
I19	21 Nov 2023	8	16.79	71.85	8.0	33.14	8.1	24.1	2.73
I19	21 Nov 2023	9	16.72	69.77	8.0	33.14	8.1	24.1	2.28
I19	21 Nov 2023	10	16.72	66.03	7.8	33.17	8.1	24.2	1.67
I19	28 Nov 2023	1	16.65	78.40	8.2	33.25	8.1	24.3	0.90
I19	28 Nov 2023	2	16.57	77.66	8.2	33.25	8.1	24.3	1.09
I19	28 Nov 2023	3	16.53	76.11	8.2	33.25	8.1	24.3	1.65
I19	28 Nov 2023	4	16.50	74.74	8.2	33.25	8.1	24.3	2.62
I19	28 Nov 2023	5	16.46	73.61	8.2	33.24	8.1	24.3	3.37
I19	28 Nov 2023	6	16.41	72.48	8.1	33.23	8.1	24.3	3.70
I19	28 Nov 2023	7	16.38	70.14	8.1	33.23	8.1	24.3	4.09
I19	28 Nov 2023	8	16.36	68.84	8.2	33.23	8.1	24.3	4.07
I19	28 Nov 2023	9	16.32	68.31	8.2	33.23	8.1	24.3	3.75
I19	28 Nov 2023	10	16.28	67.94	8.2	33.23	8.1	24.3	3.15
I24	06 Nov 2023	1	16.39	74.84	9.4	33.15	8.2	24.2	2.37
I24	06 Nov 2023	2	16.35	73.21	9.4	33.16	8.2	24.2	2.49
I24	06 Nov 2023	3	16.29	73.02	9.4	33.15	8.2	24.3	3.01
I24	06 Nov 2023	4	16.15	72.73	9.3	33.16	8.2	24.3	4.46
I24	06 Nov 2023	5	16.12	72.49	9.1	33.16	8.2	24.3	4.63
I24	06 Nov 2023	6	16.11	77.23	8.9	33.18	8.2	24.3	3.10
I24	06 Nov 2023	7	16.09	84.20	8.9	33.18	8.2	24.3	2.58
I24	06 Nov 2023	8	16.04	85.38	8.7	33.17	8.2	24.3	2.18
I24	06 Nov 2023	9	15.82	82.01	8.2	33.18	8.2	24.4	1.63
I24	06 Nov 2023	10	15.83	79.40	8.2	33.18	8.2	24.4	1.31
I24	13 Nov 2023	1	15.84	68.57	7.9	33.15	8.0	24.4	3.43

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	13 Nov 2023	2	15.84	68.39	8.0	33.14	8.0	24.4	3.74
I24	13 Nov 2023	3	15.68	67.30	7.9	33.16	8.1	24.4	5.14
I24	13 Nov 2023	4	15.64	65.78	7.6	33.18	8.0	24.4	6.55
I24	13 Nov 2023	5	15.60	65.53	7.4	33.19	8.0	24.4	6.87
I24	13 Nov 2023	6	15.32	67.03	6.9	33.19	8.0	24.5	4.97
I24	13 Nov 2023	7	14.99	70.14	6.2	33.20	8.0	24.6	3.01
I24	13 Nov 2023	8	14.93	70.78	6.1	33.20	7.9	24.6	2.11
I24	13 Nov 2023	9	14.85	71.27	6.1	33.20	7.9	24.6	1.55
I24	13 Nov 2023	10	14.85	68.99	6.0	33.20	7.9	24.6	1.40
I24	21 Nov 2023	1	17.29	79.89	8.2	33.15	8.1	24.0	1.12
I24	21 Nov 2023	2	17.27	79.86	8.2	33.15	8.1	24.0	1.04
I24	21 Nov 2023	3	17.19	79.91	8.4	33.15	8.1	24.0	1.08
I24	21 Nov 2023	4	17.16	79.78	8.5	33.15	8.1	24.1	1.52
I24	21 Nov 2023	5	17.11	78.48	8.7	33.15	8.2	24.1	4.37
I24	21 Nov 2023	6	17.05	76.77	8.4	33.15	8.1	24.1	7.37
I24	21 Nov 2023	7	16.99	73.60	8.0	33.15	8.1	24.1	6.09
I24	21 Nov 2023	8	16.81	74.48	7.6	33.15	8.1	24.1	4.85
I24	21 Nov 2023	9	16.78	73.92	7.4	33.15	8.1	24.1	3.05
I24	21 Nov 2023	10	16.78	72.18	7.4	33.15	8.1	24.1	2.07
I24	28 Nov 2023	1	16.51	69.01	8.4	33.22	8.2	24.3	1.42
I24	28 Nov 2023	2	16.47	68.18	8.4	33.23	8.2	24.3	1.75
I24	28 Nov 2023	3	16.45	67.66	8.3	33.24	8.2	24.3	2.49
I24	28 Nov 2023	4	16.43	70.21	8.3	33.24	8.2	24.3	2.96
I24	28 Nov 2023	5	16.40	70.19	8.1	33.24	8.1	24.3	2.93
I24	28 Nov 2023	6	16.39	67.62	8.1	33.23	8.1	24.3	2.63
I24	28 Nov 2023	7	16.38	64.61	8.0	33.23	8.1	24.3	2.30
I24	28 Nov 2023	8	16.37	59.49	7.9	33.23	8.1	24.3	2.07
I24	28 Nov 2023	9	16.37	55.13	7.9	33.23	8.1	24.3	1.93
I24	28 Nov 2023	10	16.38	46.92	7.8	33.23	8.1	24.3	1.72
I25	06 Nov 2023	1	16.66	79.79	9.6	33.15	8.2	24.2	1.11
I25	06 Nov 2023	2	16.50	79.42	9.6	33.11	8.2	24.2	1.61
I25	06 Nov 2023	3	16.29	76.60	9.3	33.17	8.2	24.3	3.61
I25	06 Nov 2023	4	16.23	74.38	9.0	33.17	8.2	24.3	4.03
I25	06 Nov 2023	5	16.19	76.64	8.8	33.17	8.2	24.3	3.17
I25	06 Nov 2023	6	16.15	82.18	8.7	33.17	8.2	24.3	2.56
I25	06 Nov 2023	7	15.93	84.28	8.4	33.17	8.2	24.4	1.95
I25	06 Nov 2023	8	15.81	85.79	8.0	33.18	8.2	24.4	1.55
I25	06 Nov 2023	9	15.82	79.98	7.9	33.18	8.1	24.4	1.08
I25	13 Nov 2023	1	15.91	78.21	7.5	33.18	8.0	24.4	0.86
I25	13 Nov 2023	2	16.04	78.26	7.4	33.17	8.0	24.3	0.81
I25	13 Nov 2023	3	15.56	78.19	7.0	33.21	8.0	24.5	0.93
I25	13 Nov 2023	4	15.34	77.84	7.0	33.21	8.0	24.5	1.20
I25	13 Nov 2023	5	15.27	77.44	7.4	33.20	8.0	24.5	1.43
I25	13 Nov 2023	6	15.14	78.67	7.5	33.20	8.1	24.6	1.64
I25	13 Nov 2023	7	14.98	80.75	6.9	33.20	8.0	24.6	2.05
I25	13 Nov 2023	8	14.87	78.36	6.5	33.20	8.0	24.6	1.74
I25	13 Nov 2023	9	14.86	73.11	6.4	33.20	8.0	24.6	1.43
I25	21 Nov 2023	1	17.23	82.77	8.6	33.15	8.1	24.0	0.72
I25	21 Nov 2023	2	17.20	82.59	8.6	33.15	8.1	24.1	0.67
I25	21 Nov 2023	3	17.11	82.76	8.7	33.15	8.2	24.1	0.82
I25	21 Nov 2023	4	17.06	81.91	8.6	33.15	8.2	24.1	2.02
I25	21 Nov 2023	5	16.87	79.19	8.0	33.15	8.1	24.1	2.53
I25	21 Nov 2023	6	16.74	78.49	7.6	33.15	8.1	24.2	2.03
I25	21 Nov 2023	7	16.73	78.24	7.5	33.15	8.1	24.2	1.54
I25	21 Nov 2023	8	16.73	76.63	7.4	33.15	8.1	24.2	1.15
I25	21 Nov 2023	9	16.73	75.10	7.4	33.15	8.1	24.2	0.99

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I25	28 Nov 2023	1	16.56	72.31	8.3	33.22	8.2	24.2	1.04
I25	28 Nov 2023	2	16.53	72.27	8.3	33.22	8.2	24.3	1.08
I25	28 Nov 2023	3	16.43	71.57	8.3	33.22	8.2	24.3	1.58
I25	28 Nov 2023	4	16.38	68.54	8.3	33.21	8.2	24.3	2.38
I25	28 Nov 2023	5	16.37	68.76	8.1	33.22	8.1	24.3	2.71
I25	28 Nov 2023	6	16.36	67.83	8.0	33.22	8.1	24.3	2.55
I25	28 Nov 2023	7	16.35	65.48	7.9	33.22	8.1	24.3	2.19
I25	28 Nov 2023	8	16.35	64.45	7.9	33.22	8.1	24.3	1.97
I25	28 Nov 2023	9	16.35	63.47	7.8	33.22	8.1	24.3	1.82
I26	06 Nov 2023	1	16.61	62.75	10.1	33.20	8.3	24.2	3.75
I26	06 Nov 2023	2	16.56	69.58	9.9	33.19	8.3	24.2	4.23
I26	06 Nov 2023	3	16.14	69.37	9.3	33.19	8.2	24.3	5.15
I26	06 Nov 2023	4	15.96	71.05	8.7	33.18	8.2	24.4	4.63
I26	06 Nov 2023	5	15.88	75.84	8.4	33.18	8.2	24.4	3.51
I26	06 Nov 2023	6	15.85	80.95	8.3	33.18	8.2	24.4	2.93
I26	06 Nov 2023	7	15.84	82.06	8.3	33.18	8.2	24.4	2.50
I26	06 Nov 2023	8	15.81	82.81	8.2	33.18	8.1	24.4	1.93
I26	06 Nov 2023	9	15.80	78.06	7.8	33.18	8.1	24.4	1.17
I26	13 Nov 2023	1	15.92	80.60	7.8	33.22	8.1	24.4	1.08
I26	13 Nov 2023	2	15.96	80.42	7.8	33.22	8.1	24.4	0.97
I26	13 Nov 2023	3	15.93	80.49	7.8	33.21	8.1	24.4	1.00
I26	13 Nov 2023	4	15.47	78.95	7.8	33.22	8.1	24.5	2.73
I26	13 Nov 2023	5	15.18	74.13	7.7	33.21	8.1	24.6	3.64
I26	13 Nov 2023	6	14.97	77.04	7.4	33.20	8.1	24.6	2.90
I26	13 Nov 2023	7	14.94	79.70	7.3	33.20	8.0	24.6	2.26
I26	13 Nov 2023	8	14.94	78.97	7.3	33.20	8.0	24.6	1.92
I26	13 Nov 2023	9	14.95	78.11	7.2	33.20	8.0	24.6	1.60
I26	21 Nov 2023	1	17.36	85.45	8.6	33.16	8.1	24.0	0.51
I26	21 Nov 2023	2	17.17	85.39	8.6	33.16	8.2	24.1	0.53
I26	21 Nov 2023	3	17.11	84.98	8.8	33.16	8.2	24.1	0.62
I26	21 Nov 2023	4	17.07	84.29	8.8	33.16	8.2	24.1	0.98
I26	21 Nov 2023	5	17.02	82.40	8.6	33.16	8.2	24.1	1.60
I26	21 Nov 2023	6	16.82	81.23	8.3	33.15	8.1	24.1	2.45
I26	21 Nov 2023	7	16.72	78.30	8.0	33.15	8.1	24.2	2.55
I26	21 Nov 2023	8	16.70	79.18	7.8	33.15	8.1	24.2	1.84
I26	21 Nov 2023	9	16.70	79.98	7.8	33.15	8.1	24.2	1.30
I26	28 Nov 2023	1	16.53	71.15	8.2	33.20	8.2	24.2	1.14
I26	28 Nov 2023	2	16.49	70.95	8.2	33.20	8.2	24.2	1.29
I26	28 Nov 2023	3	16.41	70.27	8.2	33.20	8.2	24.3	2.01
I26	28 Nov 2023	4	16.31	68.85	8.1	33.20	8.1	24.3	3.34
I26	28 Nov 2023	5	16.28	67.41	7.9	33.19	8.1	24.3	3.09
I26	28 Nov 2023	6	16.25	68.14	7.9	33.19	8.1	24.3	2.71
I26	28 Nov 2023	7	16.23	68.68	7.8	33.19	8.1	24.3	2.26
I26	28 Nov 2023	8	16.23	69.35	7.8	33.19	8.1	24.3	1.98
I26	28 Nov 2023	9	16.25	68.02	7.7	33.20	8.1	24.3	1.64
I32	06 Nov 2023	1	16.88	52.97	11.7	33.20	8.4	24.2	11.92
I32	06 Nov 2023	2	16.69	52.78	11.7	33.20	8.4	24.2	13.11
I32	06 Nov 2023	3	16.25	46.04	10.1	33.20	8.3	24.3	21.30
I32	06 Nov 2023	4	16.12	46.39	9.2	33.20	8.2	24.3	17.66
I32	06 Nov 2023	5	16.06	63.30	8.9	33.20	8.2	24.3	10.47
I32	06 Nov 2023	6	15.97	76.05	8.7	33.20	8.2	24.4	5.88
I32	06 Nov 2023	7	15.92	80.11	8.6	33.20	8.2	24.4	3.48
I32	06 Nov 2023	8	15.86	82.06	8.2	33.20	8.2	24.4	2.28
I32	06 Nov 2023	9	15.77	80.21	7.7	33.20	8.1	24.4	1.64
I32	06 Nov 2023	10	15.81	68.02	7.6	33.20	8.1	24.4	1.72

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I32	13 Nov 2023	1	15.95	76.35	8.6	33.21	8.1	24.4	1.87
I32	13 Nov 2023	2	15.91	75.70	8.6	33.21	8.1	24.4	2.08
I32	13 Nov 2023	3	15.78	74.65	8.5	33.22	8.1	24.4	3.13
I32	13 Nov 2023	4	15.68	71.18	8.3	33.21	8.1	24.4	4.99
I32	13 Nov 2023	5	15.45	66.76	7.7	33.22	8.1	24.5	5.99
I32	13 Nov 2023	6	15.22	62.39	7.1	33.21	8.0	24.5	4.61
I32	13 Nov 2023	7	15.09	57.01	6.5	33.21	7.9	24.6	3.57
I32	13 Nov 2023	8	14.98	57.36	6.2	33.20	7.9	24.6	3.02
I32	13 Nov 2023	9	14.91	57.70	6.1	33.20	7.9	24.6	2.57
I32	13 Nov 2023	10	14.87	59.80	5.9	33.20	7.9	24.6	2.49
I32	21 Nov 2023	1	17.35	81.78	8.7	33.15	8.2	24.0	0.73
I32	21 Nov 2023	2	17.26	82.01	8.7	33.15	8.2	24.0	0.76
I32	21 Nov 2023	3	17.14	82.55	8.7	33.14	8.2	24.1	1.02
I32	21 Nov 2023	4	17.00	82.16	8.6	33.14	8.2	24.1	2.95
I32	21 Nov 2023	5	16.93	76.21	8.5	33.14	8.1	24.1	7.58
I32	21 Nov 2023	6	16.86	67.66	8.2	33.14	8.1	24.1	9.14
I32	21 Nov 2023	7	16.81	62.55	8.0	33.14	8.1	24.1	7.75
I32	21 Nov 2023	8	16.77	60.71	7.8	33.14	8.1	24.1	5.80
I32	21 Nov 2023	9	16.69	60.81	6.9	33.14	8.0	24.2	3.73
I32	21 Nov 2023	10	16.65	57.90	6.5	33.14	8.0	24.2	2.82
I32	28 Nov 2023	1	16.76	60.03	9.1	33.20	8.2	24.2	3.21
I32	28 Nov 2023	2	16.63	59.63	8.8	33.20	8.2	24.2	3.88
I32	28 Nov 2023	3	16.47	60.79	8.1	33.20	8.2	24.3	3.87
I32	28 Nov 2023	4	16.40	65.38	8.0	33.20	8.1	24.3	3.23
I32	28 Nov 2023	5	16.39	64.70	8.0	33.20	8.1	24.3	3.00
I32	28 Nov 2023	6	16.39	63.14	8.1	33.20	8.1	24.3	3.22
I32	28 Nov 2023	7	16.39	62.88	8.2	33.20	8.1	24.3	3.41
I32	28 Nov 2023	8	16.39	62.58	8.2	33.20	8.1	24.3	3.51
I32	28 Nov 2023	9	16.39	62.55	8.2	33.20	8.1	24.3	3.40
I32	28 Nov 2023	10	16.34	60.34	8.2	33.20	8.1	24.3	2.80
I39	06 Nov 2023	1	16.35	83.31	9.2	33.17	8.2	24.3	0.99
I39	06 Nov 2023	2	16.32	83.62	9.2	33.17	8.2	24.3	0.93
I39	06 Nov 2023	3	16.28	84.29	9.2	33.18	8.2	24.3	0.95
I39	06 Nov 2023	4	16.28	84.73	9.2	33.18	8.2	24.3	0.99
I39	06 Nov 2023	5	16.25	84.98	9.0	33.18	8.2	24.3	1.06
I39	06 Nov 2023	6	15.89	85.50	8.4	33.18	8.2	24.4	1.07
I39	06 Nov 2023	7	15.72	86.81	8.2	33.18	8.2	24.4	1.14
I39	06 Nov 2023	8	15.69	86.66	8.1	33.18	8.1	24.4	1.25
I39	06 Nov 2023	9	15.53	85.93	7.9	33.17	8.1	24.4	1.33
I39	06 Nov 2023	10	15.34	85.50	7.9	33.18	8.1	24.5	1.43
I39	06 Nov 2023	11	15.28	85.86	7.9	33.18	8.1	24.5	1.54
I39	06 Nov 2023	12	15.21	86.40	7.9	33.18	8.1	24.5	1.62
I39	06 Nov 2023	13	15.17	86.96	7.9	33.18	8.1	24.5	1.74
I39	06 Nov 2023	14	15.16	86.89	7.9	33.18	8.1	24.5	1.61
I39	06 Nov 2023	15	15.15	87.00	7.8	33.18	8.1	24.5	1.67
I39	06 Nov 2023	16	15.15	86.73	7.8	33.18	8.1	24.5	1.71
I39	06 Nov 2023	17	15.14	86.66	7.8	33.18	8.1	24.5	1.77
I39	06 Nov 2023	18	15.14	86.48	7.7	33.18	8.1	24.5	1.62
I39	13 Nov 2023	1	16.67	87.07	8.2	33.23	8.1	24.2	0.54
I39	13 Nov 2023	2	16.44	86.85	8.2	33.23	8.1	24.3	0.63
I39	13 Nov 2023	3	16.32	86.41	8.3	33.22	8.1	24.3	0.77
I39	13 Nov 2023	4	16.25	85.80	8.3	33.22	8.1	24.3	0.95
I39	13 Nov 2023	5	16.17	85.62	8.3	33.22	8.1	24.3	1.16
I39	13 Nov 2023	6	16.06	85.43	8.3	33.22	8.1	24.4	1.33
I39	13 Nov 2023	7	16.02	85.62	8.4	33.21	8.1	24.4	1.36
I39	13 Nov 2023	8	15.97	85.93	8.3	33.21	8.1	24.4	1.56

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I39	13 Nov 2023	9	15.93	85.97	8.4	33.21	8.1	24.4	1.67
I39	13 Nov 2023	10	15.91	85.88	8.4	33.21	8.1	24.4	1.88
I39	13 Nov 2023	11	15.86	85.76	8.4	33.21	8.1	24.4	2.01
I39	13 Nov 2023	12	15.82	85.70	8.4	33.21	8.1	24.4	2.20
I39	13 Nov 2023	13	15.78	85.61	8.4	33.20	8.1	24.4	2.24
I39	13 Nov 2023	14	15.76	85.56	8.4	33.21	8.1	24.4	2.15
I39	13 Nov 2023	15	15.75	85.43	8.4	33.21	8.1	24.4	2.26
I39	13 Nov 2023	16	15.64	85.69	8.1	33.19	8.1	24.4	1.96
I39	13 Nov 2023	17	15.15	86.39	7.7	33.17	8.1	24.5	2.12
I39	13 Nov 2023	18	14.58	85.95	7.5	33.20	8.0	24.7	1.94
I39	21 Nov 2023	1	17.49	90.20	8.1	33.24	8.1	24.0	0.41
I39	21 Nov 2023	2	17.41	90.12	8.2	33.23	8.1	24.1	0.41
I39	21 Nov 2023	3	17.37	89.80	8.2	33.23	8.1	24.1	0.50
I39	21 Nov 2023	4	17.35	89.11	8.2	33.23	8.1	24.1	0.56
I39	21 Nov 2023	5	17.32	88.87	8.3	33.22	8.1	24.1	0.64
I39	21 Nov 2023	6	17.28	88.85	8.2	33.22	8.1	24.1	0.64
I39	21 Nov 2023	7	17.27	89.01	8.2	33.22	8.1	24.1	0.67
I39	21 Nov 2023	8	17.27	89.32	8.2	33.22	8.1	24.1	0.65
I39	21 Nov 2023	9	17.26	89.57	8.2	33.22	8.1	24.1	0.67
I39	21 Nov 2023	10	17.22	89.77	8.2	33.22	8.1	24.1	0.65
I39	21 Nov 2023	11	17.19	89.94	8.2	33.21	8.1	24.1	0.66
I39	21 Nov 2023	12	17.15	90.19	8.2	33.21	8.1	24.1	0.64
I39	21 Nov 2023	13	17.11	90.36	8.2	33.21	8.1	24.1	0.58
I39	21 Nov 2023	14	17.01	90.73	8.1	33.20	8.1	24.1	0.58
I39	21 Nov 2023	15	16.80	90.91	8.2	33.19	8.1	24.2	0.68
I39	21 Nov 2023	16	16.68	90.59	8.2	33.18	8.1	24.2	0.89
I39	21 Nov 2023	17	16.48	89.56	8.0	33.17	8.1	24.2	0.97
I39	21 Nov 2023	18	16.32	84.15	7.9	33.17	8.1	24.3	0.81
I39	28 Nov 2023	1	16.96	89.49	8.0	33.30	8.1	24.2	0.60
I39	28 Nov 2023	2	16.95	89.37	8.0	33.30	8.1	24.2	0.55
I39	28 Nov 2023	3	16.94	89.31	8.0	33.30	8.1	24.2	0.58
I39	28 Nov 2023	4	16.93	89.06	8.0	33.30	8.1	24.2	0.65
I39	28 Nov 2023	5	16.93	89.14	8.0	33.30	8.1	24.2	0.67
I39	28 Nov 2023	6	16.93	89.00	8.0	33.30	8.1	24.2	0.75
I39	28 Nov 2023	7	16.92	89.01	8.0	33.30	8.1	24.2	0.82
I39	28 Nov 2023	8	16.91	88.94	8.0	33.30	8.1	24.2	0.90
I39	28 Nov 2023	9	16.91	88.83	8.0	33.30	8.1	24.2	1.03
I39	28 Nov 2023	10	16.88	88.74	8.0	33.30	8.1	24.2	1.13
I39	28 Nov 2023	11	16.85	88.43	8.0	33.29	8.1	24.2	1.28
I39	28 Nov 2023	12	16.82	87.88	8.0	33.29	8.1	24.2	1.41
I39	28 Nov 2023	13	16.79	87.27	8.0	33.29	8.1	24.2	1.46
I39	28 Nov 2023	14	16.77	86.38	8.0	33.28	8.1	24.2	1.51
I39	28 Nov 2023	15	16.70	85.87	8.0	33.27	8.1	24.3	1.49
I39	28 Nov 2023	16	16.67	84.97	8.0	33.27	8.1	24.3	1.55
I39	28 Nov 2023	17	16.64	84.25	8.0	33.27	8.1	24.3	1.54
I39	28 Nov 2023	18	16.64	83.08	8.0	33.26	8.1	24.3	1.44
I40	06 Nov 2023	1	16.38	75.82	7.9	33.18	8.1	24.3	1.29
I40	06 Nov 2023	2	16.27	75.89	7.9	33.18	8.1	24.3	1.88
I40	06 Nov 2023	3	16.13	75.28	8.3	33.18	8.1	24.3	6.21
I40	06 Nov 2023	4	16.10	71.92	8.6	33.17	8.2	24.3	11.42
I40	06 Nov 2023	5	16.08	66.30	8.7	33.17	8.2	24.3	12.03
I40	06 Nov 2023	6	16.00	65.30	8.4	33.17	8.2	24.3	8.33
I40	06 Nov 2023	7	15.90	68.79	8.0	33.17	8.2	24.4	4.95
I40	06 Nov 2023	8	15.83	74.80	7.7	33.18	8.1	24.4	2.73
I40	06 Nov 2023	9	15.79	76.05	7.4	33.19	8.1	24.4	1.68
I40	06 Nov 2023	10	15.78	67.47	7.1	33.19	8.1	24.4	1.55
I40	13 Nov 2023	1	15.43	63.00	7.8	33.19	8.0	24.5	2.30

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I40	13 Nov 2023	2	15.43	62.86	7.8	33.19	8.0	24.5	2.35
I40	13 Nov 2023	3	15.46	63.47	7.8	33.19	8.0	24.5	2.36
I40	13 Nov 2023	4	15.46	64.01	7.8	33.19	8.0	24.5	2.59
I40	13 Nov 2023	5	15.42	64.54	7.6	33.20	8.0	24.5	2.89
I40	13 Nov 2023	6	15.27	66.06	7.2	33.20	8.0	24.5	2.92
I40	13 Nov 2023	7	15.16	69.10	6.6	33.20	8.0	24.6	2.38
I40	13 Nov 2023	8	15.07	67.49	6.0	33.20	7.9	24.6	2.01
I40	13 Nov 2023	9	14.90	58.22	5.6	33.20	7.9	24.6	1.88
I40	13 Nov 2023	10	14.85	43.21	5.4	33.20	7.9	24.6	1.85
I40	21 Nov 2023	1	17.34	51.23	8.1	32.58	8.1	23.6	1.82
I40	21 Nov 2023	2	17.29	55.28	8.3	33.02	8.1	23.9	2.45
I40	21 Nov 2023	3	17.17	64.91	8.3	33.14	8.1	24.0	3.57
I40	21 Nov 2023	4	17.08	72.70	7.8	33.15	8.1	24.1	3.08
I40	21 Nov 2023	5	17.03	76.64	7.7	33.15	8.1	24.1	2.63
I40	21 Nov 2023	6	16.92	76.90	7.5	33.16	8.1	24.1	1.89
I40	21 Nov 2023	7	16.87	69.11	7.5	33.16	8.1	24.1	1.57
I40	21 Nov 2023	8	16.80	62.98	7.6	33.17	8.1	24.2	1.48
I40	21 Nov 2023	9	16.76	60.49	7.6	33.18	8.1	24.2	1.46
I40	21 Nov 2023	10	16.76	60.66	7.6	33.18	8.1	24.2	1.54
I40	28 Nov 2023	1	16.45	65.30	8.4	33.20	8.1	24.3	1.44
I40	28 Nov 2023	2	16.40	63.58	8.4	33.20	8.1	24.3	1.83
I40	28 Nov 2023	3	16.34	63.75	8.2	33.20	8.1	24.3	2.26
I40	28 Nov 2023	4	16.29	62.81	8.1	33.20	8.1	24.3	1.91
I40	28 Nov 2023	5	16.28	59.32	8.1	33.21	8.1	24.3	1.83
I40	28 Nov 2023	6	16.26	58.72	8.0	33.20	8.1	24.3	1.84
I40	28 Nov 2023	7	16.22	59.54	8.0	33.20	8.1	24.3	1.79
I40	28 Nov 2023	8	16.17	60.82	8.1	33.19	8.1	24.3	1.85
I40	28 Nov 2023	9	16.11	62.29	8.1	33.19	8.1	24.3	1.85
I40	28 Nov 2023	10	16.08	61.08	8.0	33.19	8.1	24.3	1.69

NA = not available

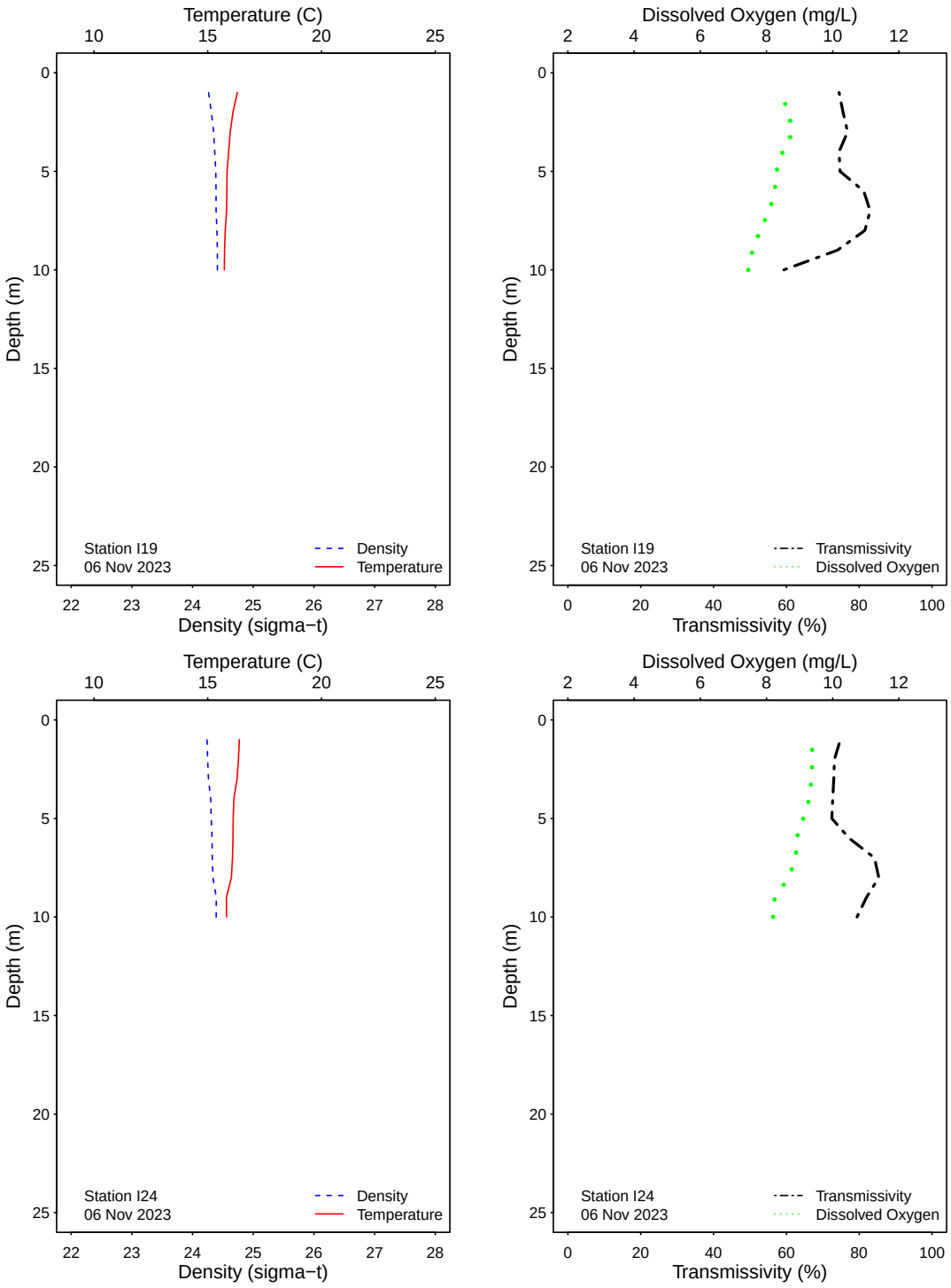

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

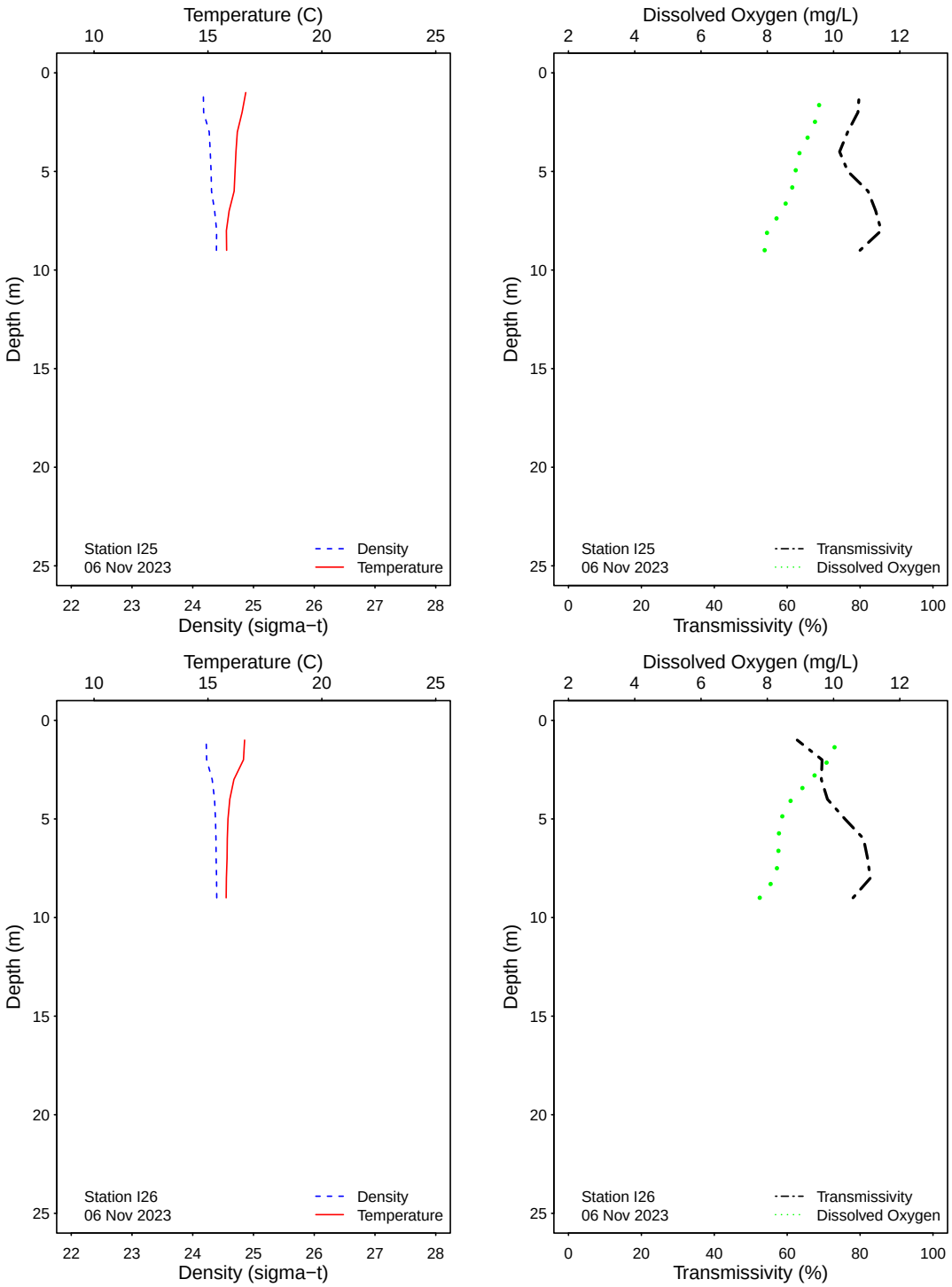

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

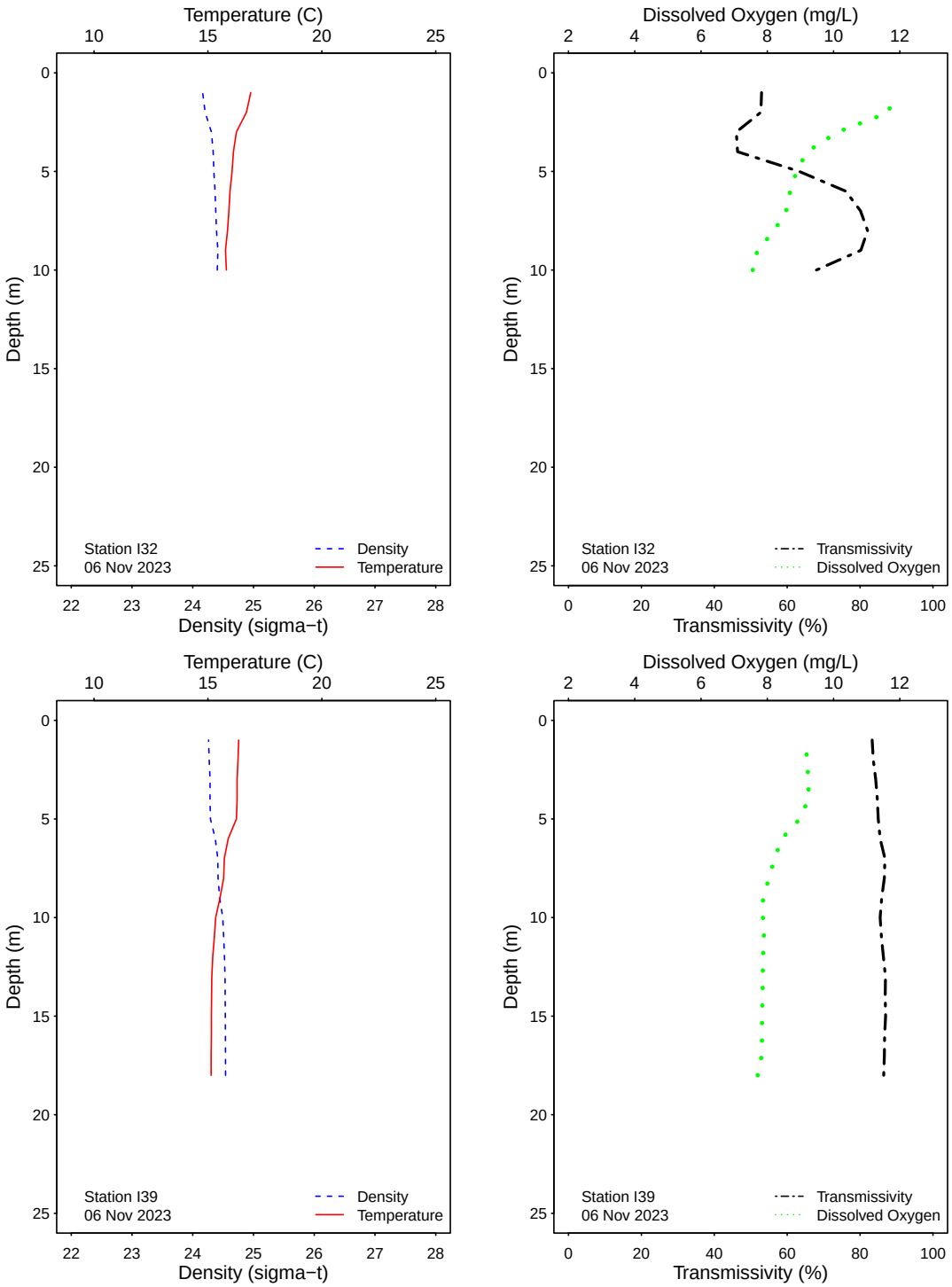

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

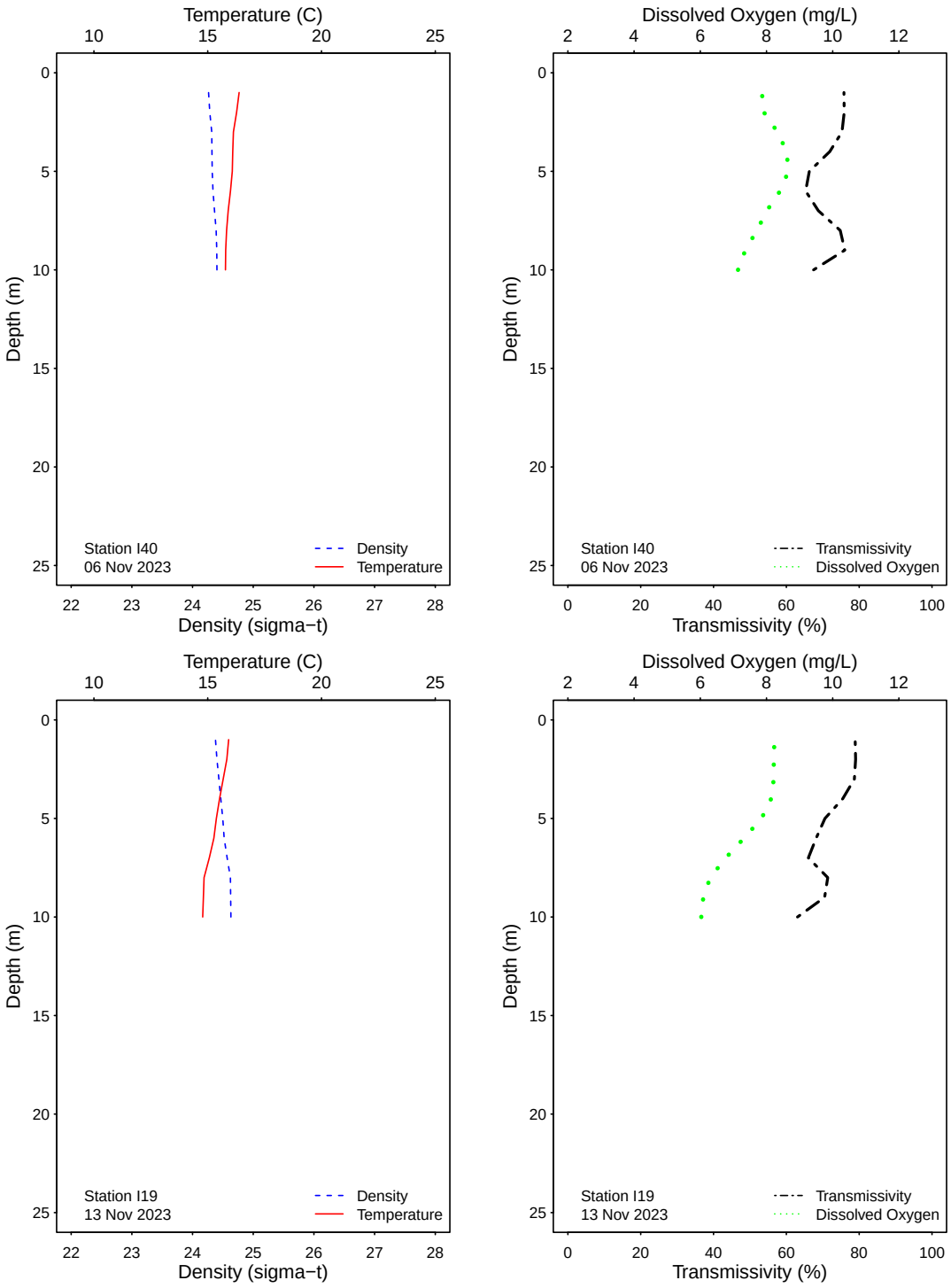

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

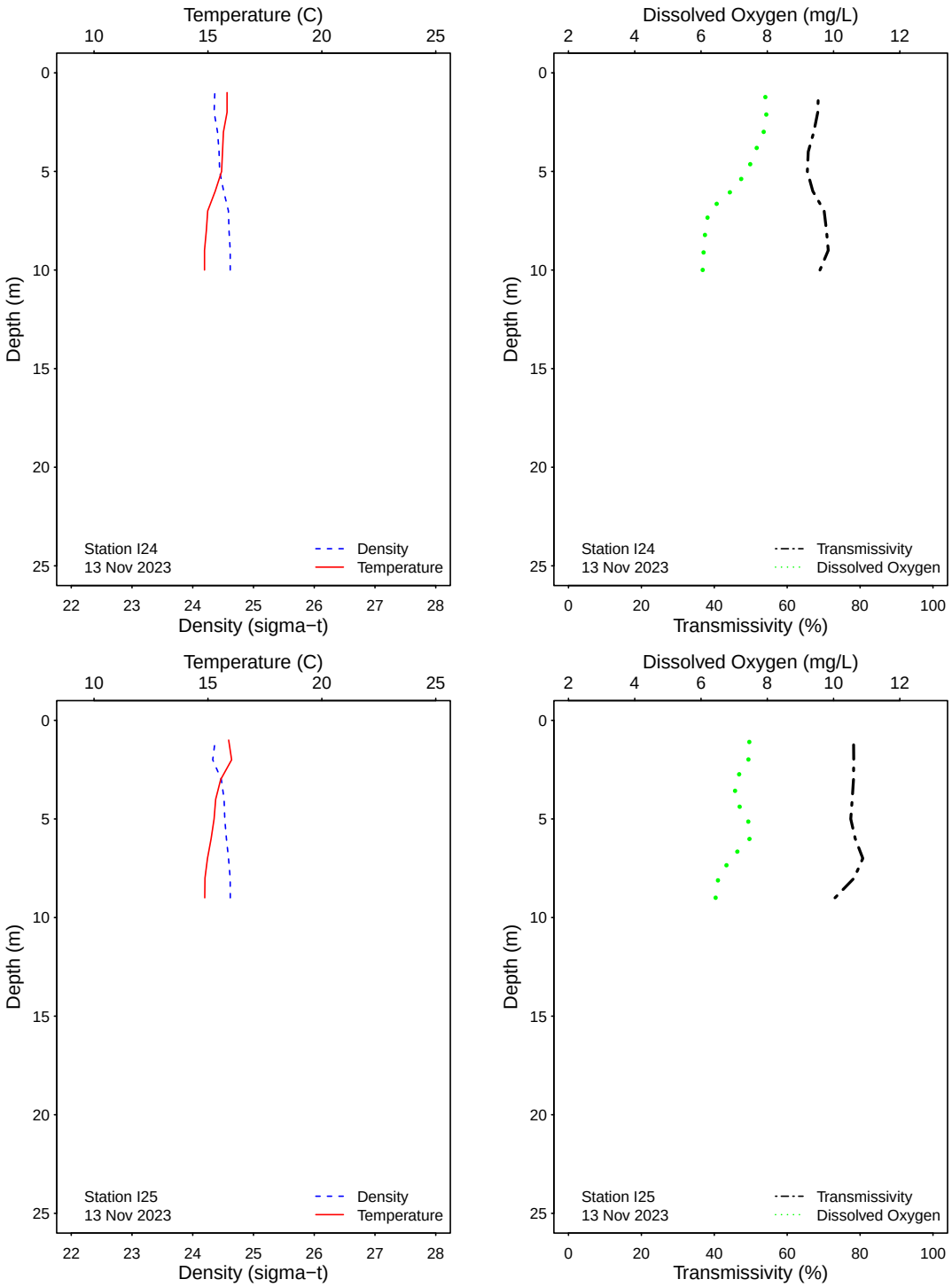

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

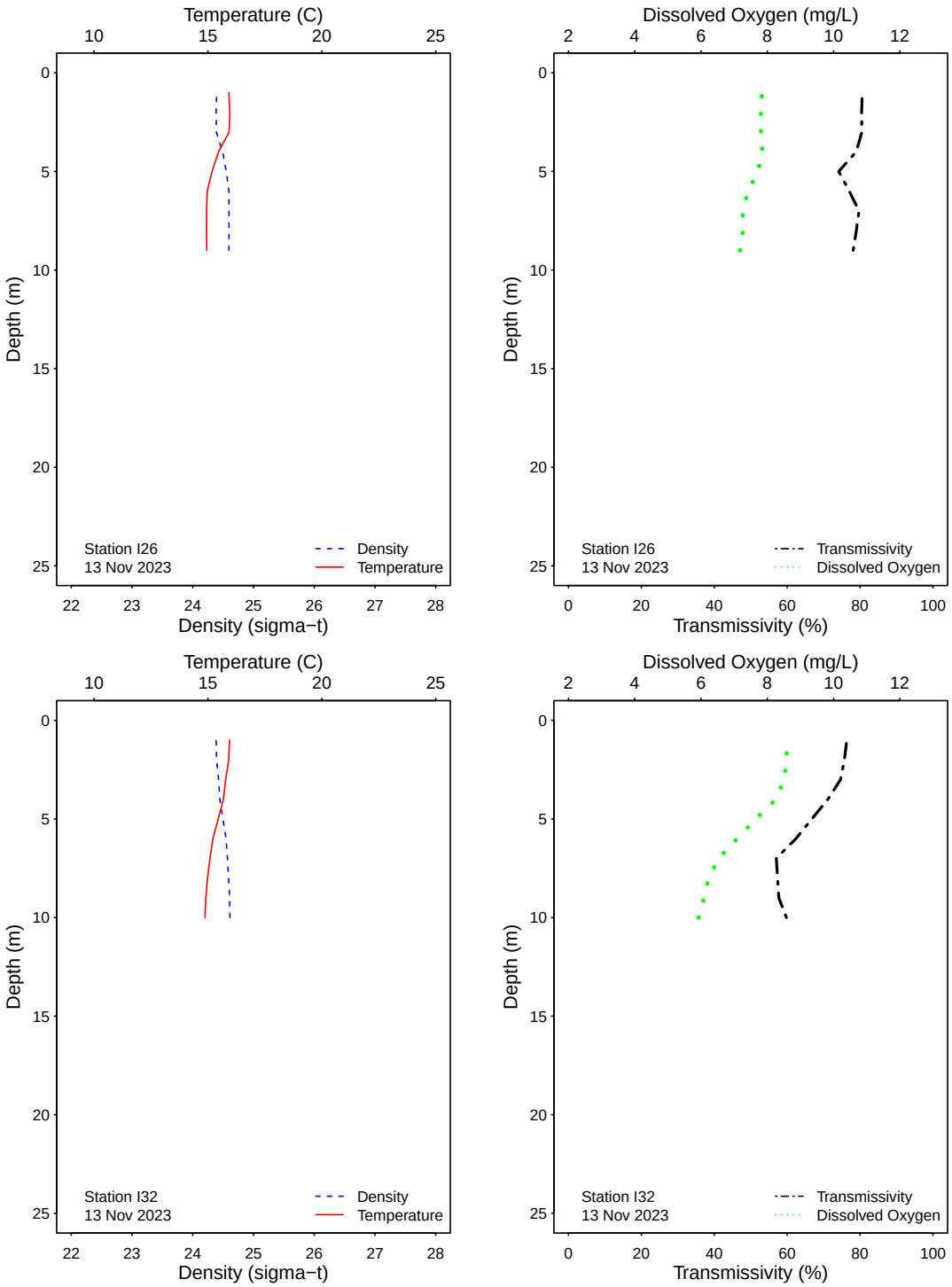

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

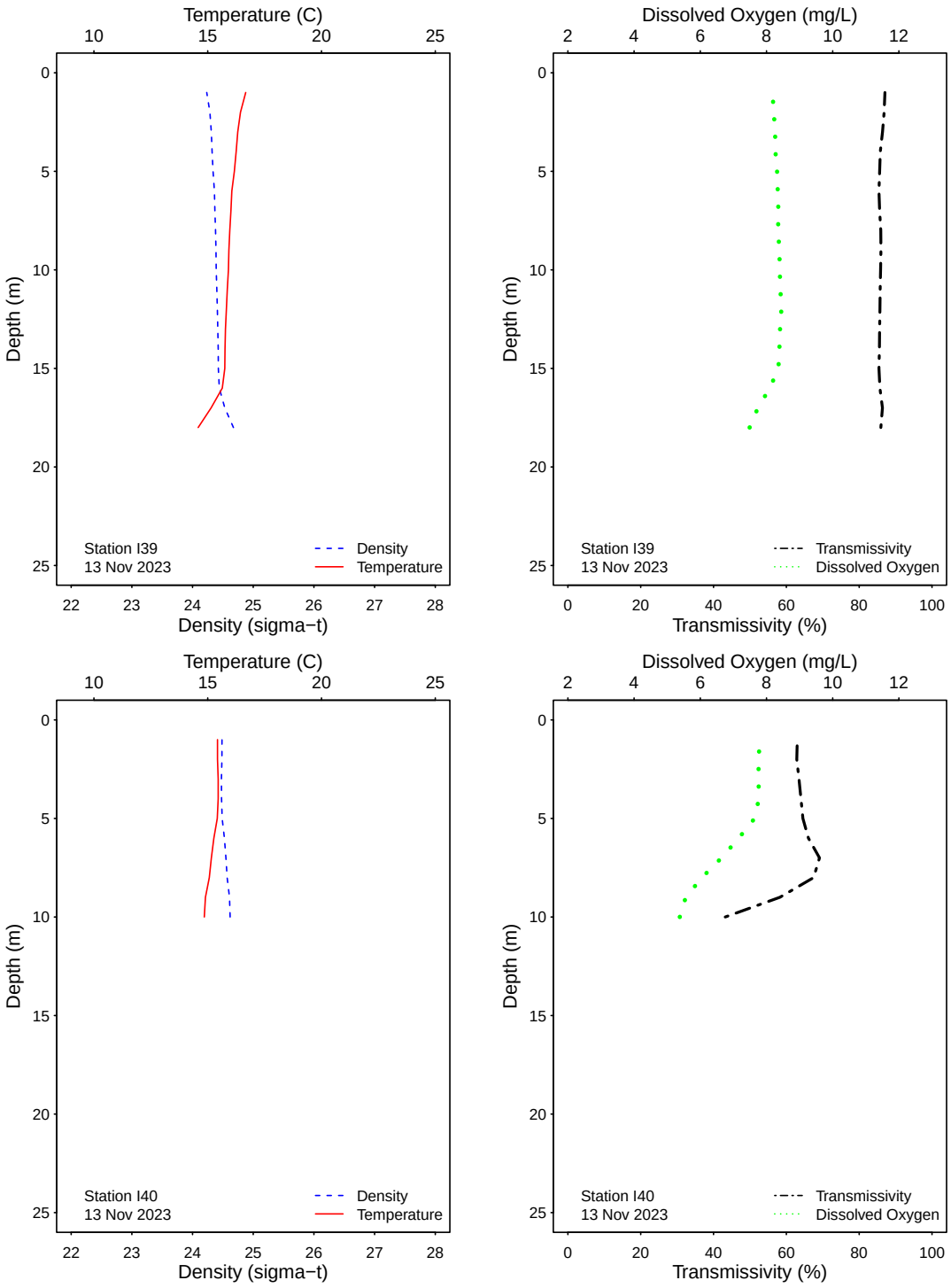

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

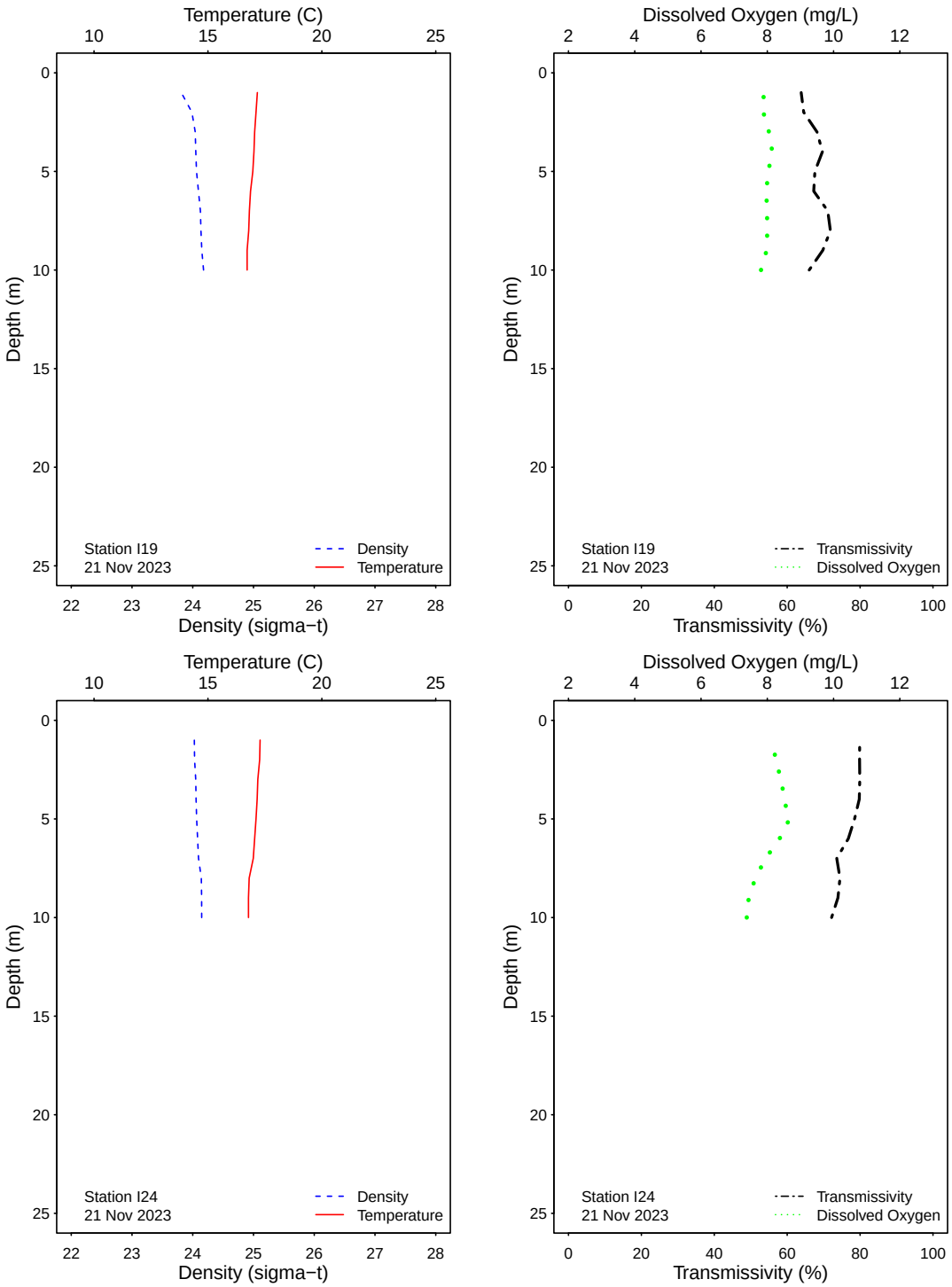

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

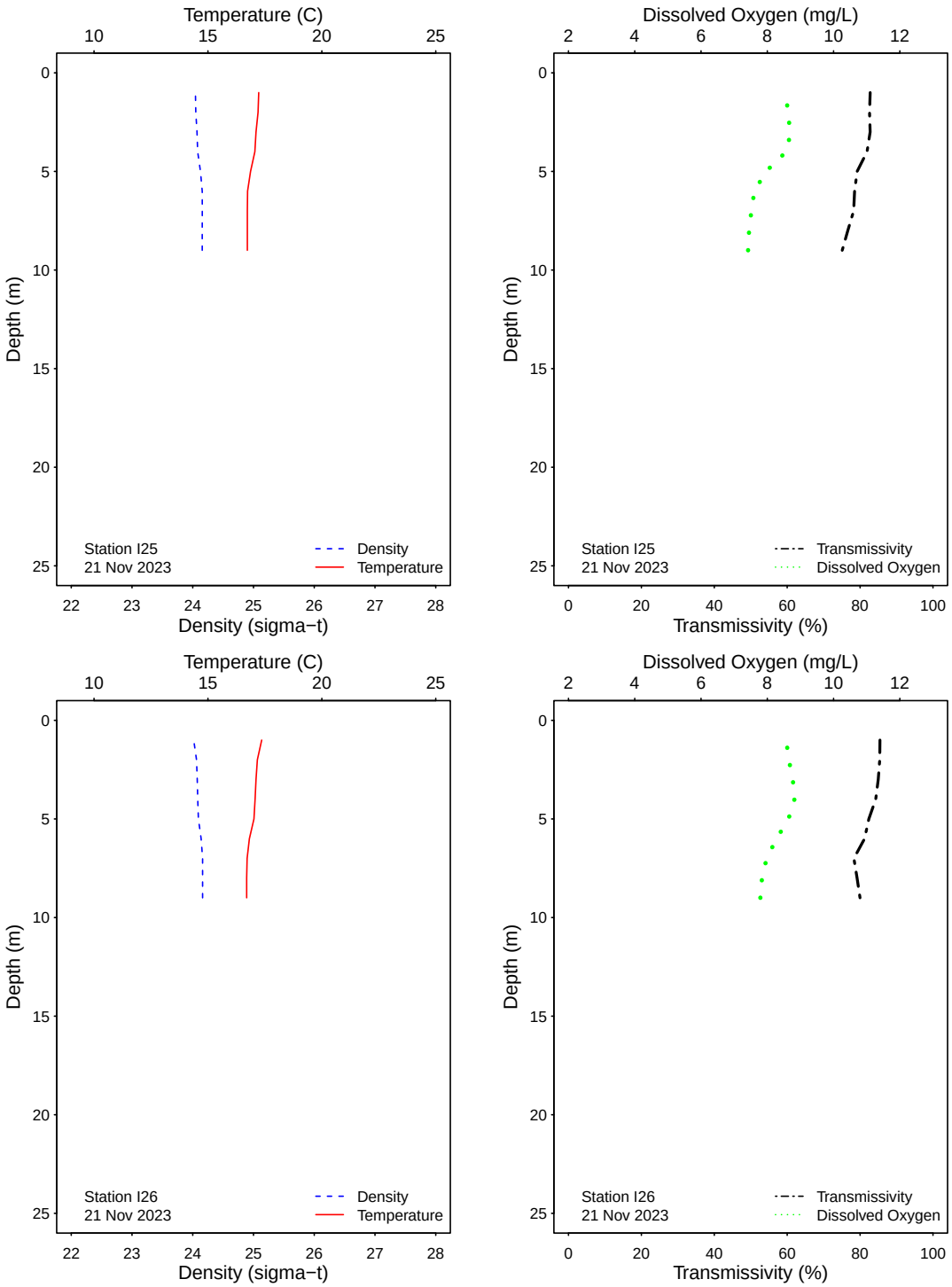

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

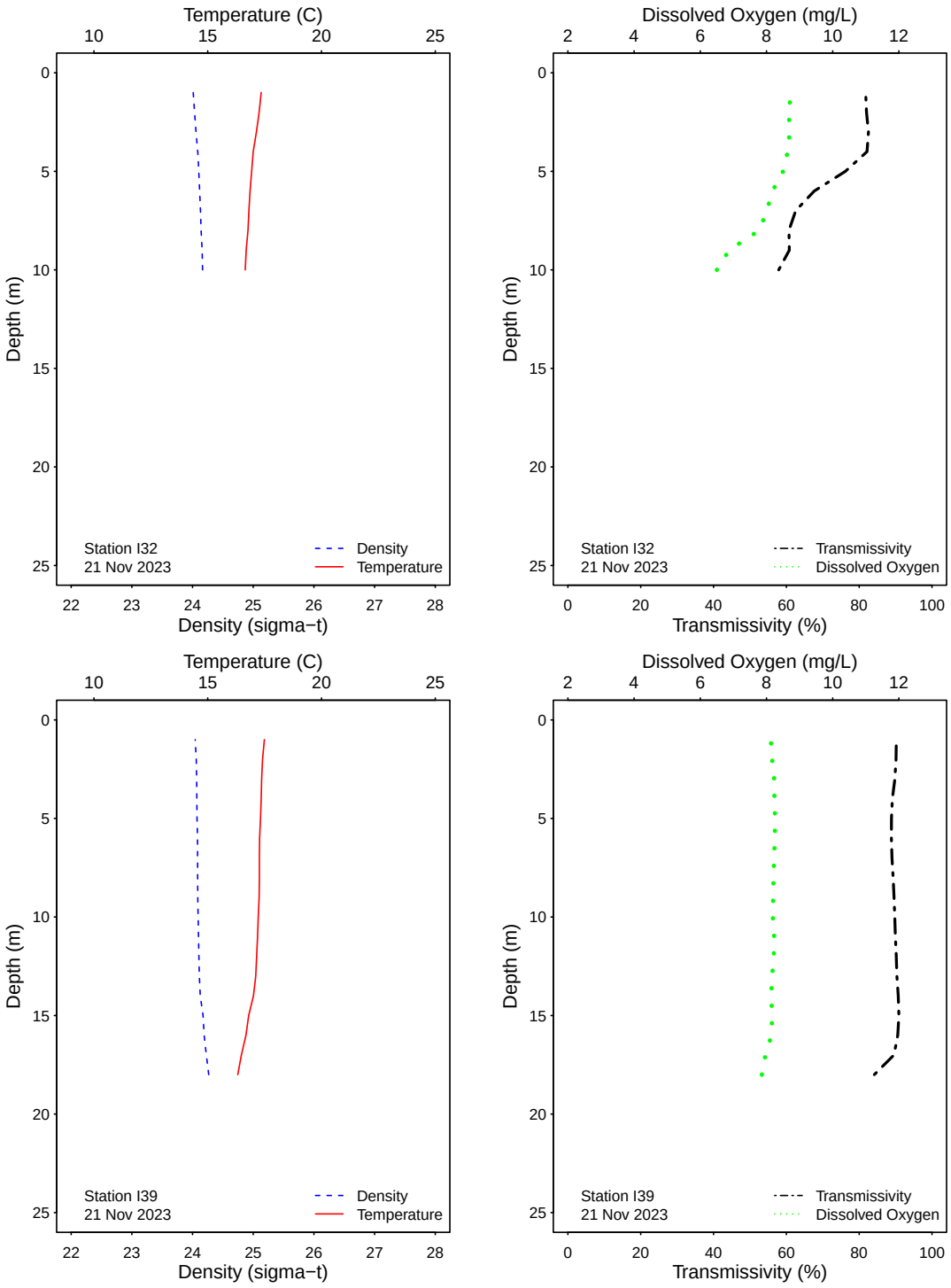

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

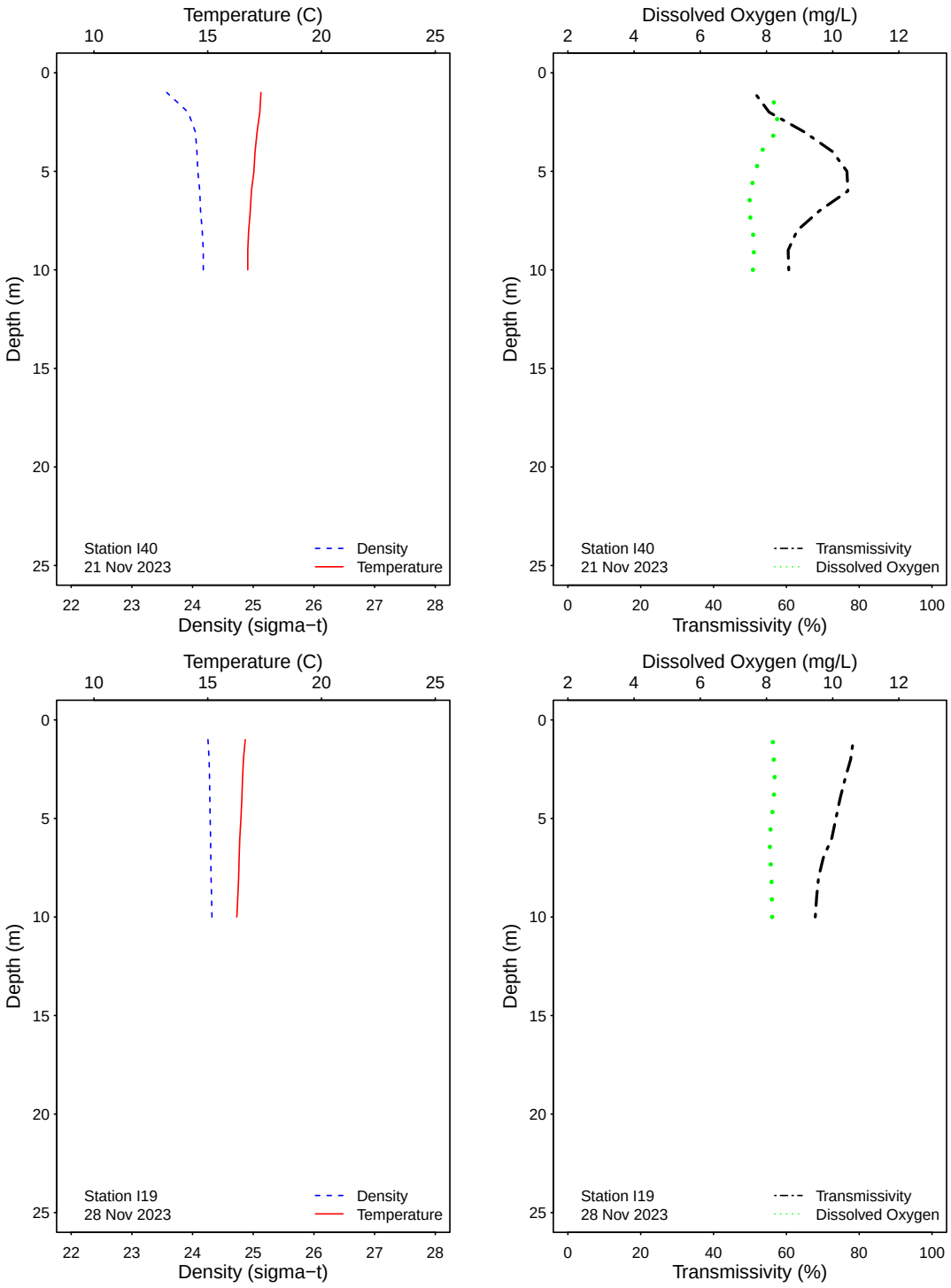

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

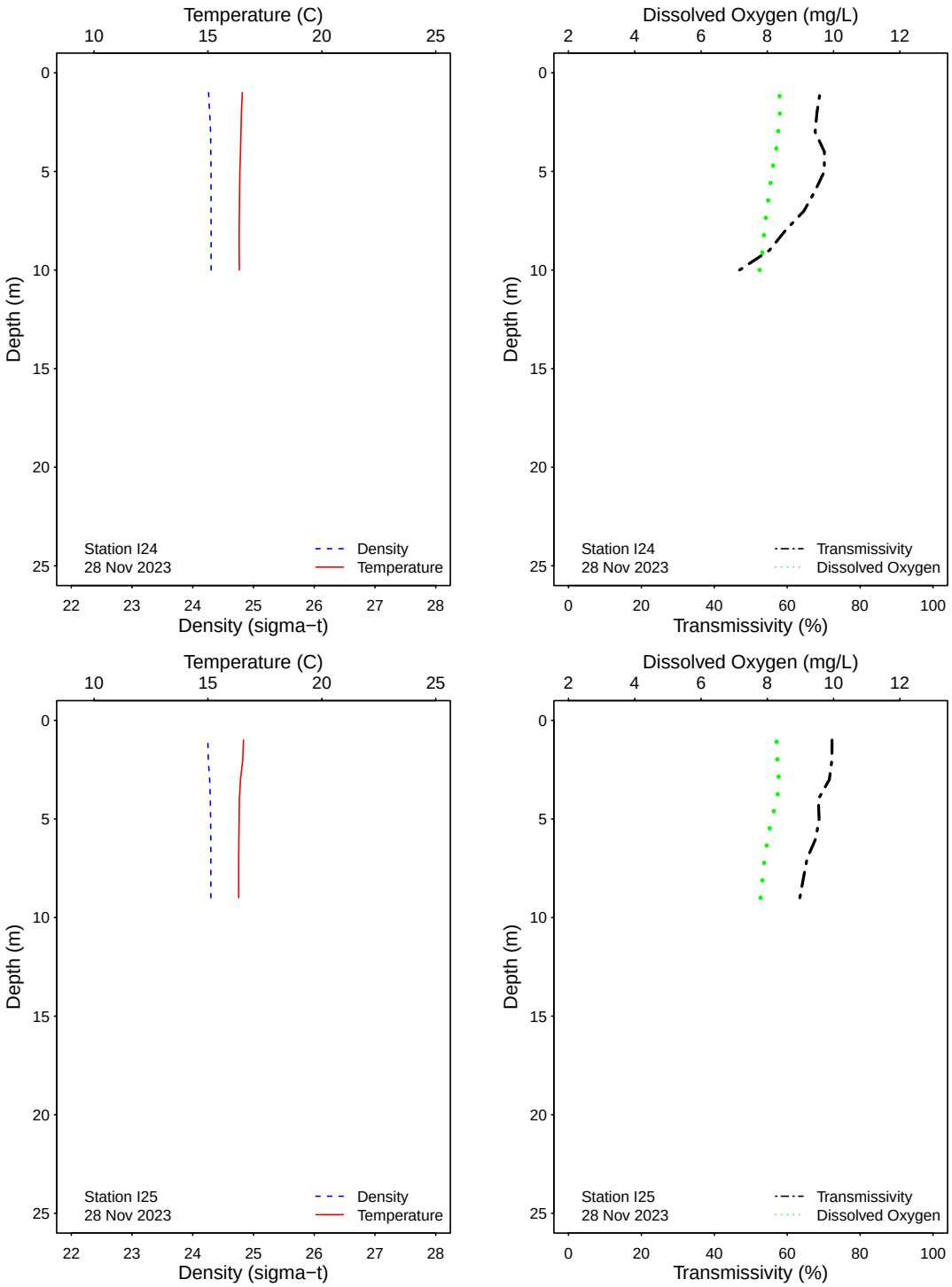

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

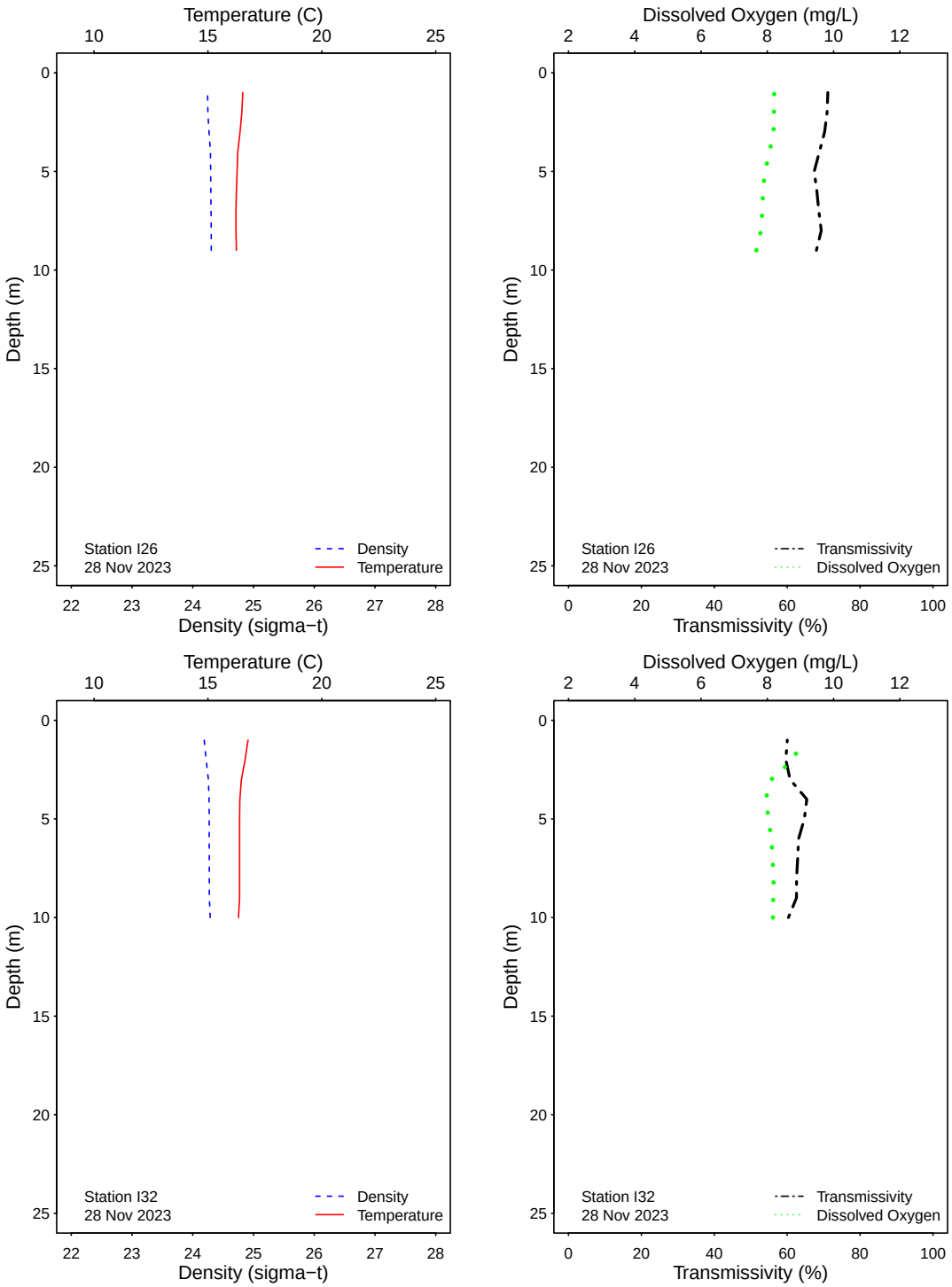

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

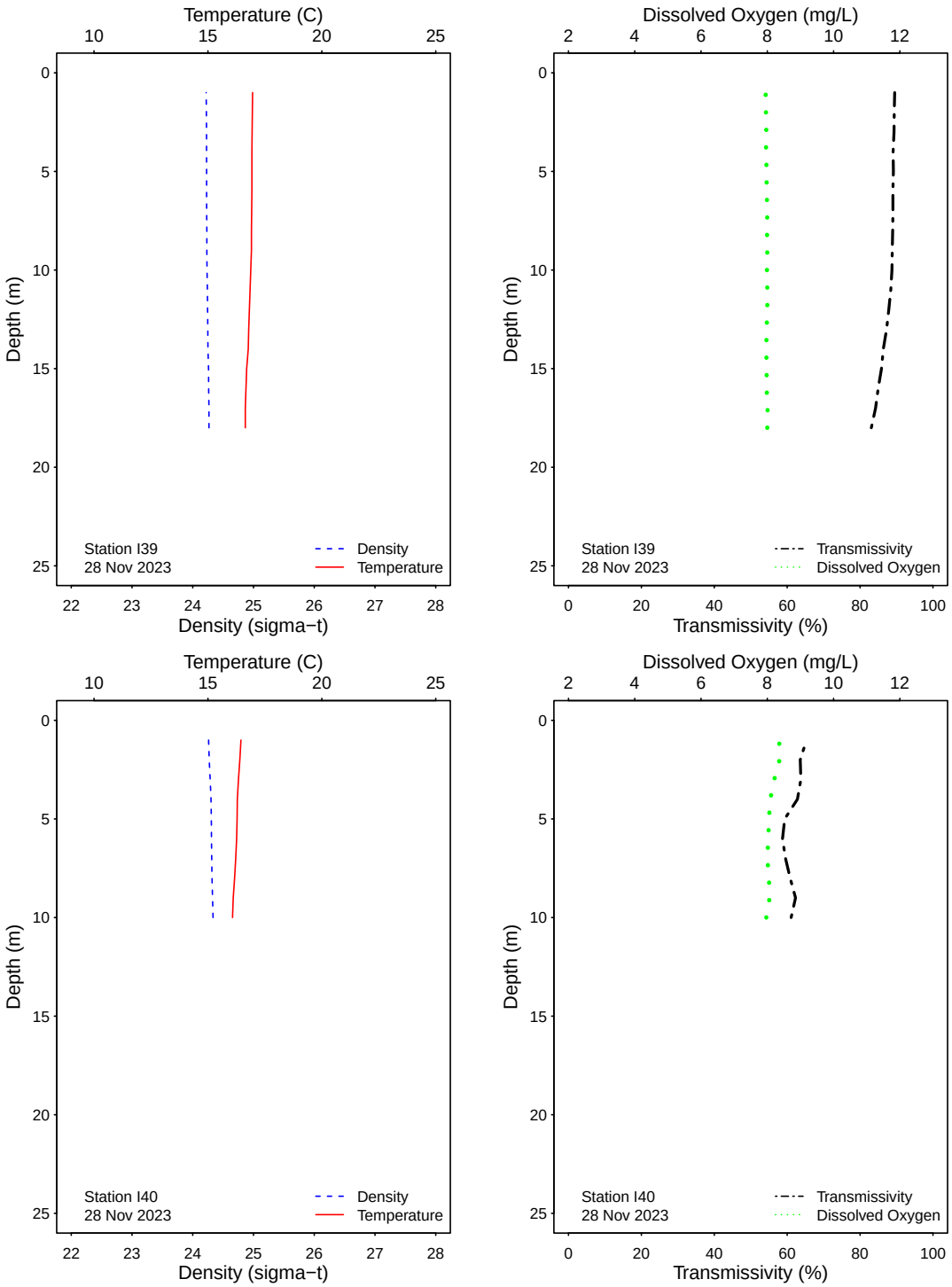

Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

This page intentionally left blank

Offshore Stations

Table 4.1

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria at the SBOO offshore stations within State jurisdictional waters. Fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
08 Nov 2023	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
09 Nov 2023	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 with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria at the SBOO offshore stations within State jurisdictional waters. *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
November	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 with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria at the SBOO offshore stations within State jurisdictional waters. Total coliform density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

	I12			I14			I16			I18			I22			I23			I33			I36			I37			I38		
Date	**2m**	**18m**	**27m**	**2m**	**18m**	**27m**	**2m**	**18m**	**27m**	**2m**	**12m**	**18m**	**2m**	**18m**	**27m**	**2m**	**12m**	**18m**	**2m**	**18m**	**27m**	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**	**2m**	**6m**	**11m**
November	IC	IC	IC	IC	IC	IC	IC	**E**	**E**	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC

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

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	Temp	XMS	DO	Sal	pH
I10	07 Nov 2023	1148	2	<2	<2	<2	16.8	87.30	8.8	33.17	8.2
I10	07 Nov 2023	1148	12	<2	<2	<2	15.6	89.32	8.3	33.15	8.1
I10	07 Nov 2023	1148	18	<2	<2	<2	15.3	80.96	7.9	33.18	8.1
I11	07 Nov 2023	1136	2	<2	<2	<2	16.5	81.36	9.3	33.16	8.2
I11	07 Nov 2023	1136	6	2e	<2	2e	16.0	85.05	9.2	33.17	8.2
I11	07 Nov 2023	1136	11	2e	<2	<2	15.6	83.64	7.6	33.18	8.1
I12	08 Nov 2023	1021	2	10e	<2	<2	16.9	88.59	8.8	33.18	8.1
I12	08 Nov 2023	1021	18	180e	16e	8e	15.1	87.97	7.8	33.15	8.0
I12	08 Nov 2023	1021	27	18e	4e	10e	14.9	82.95	7.7	33.19	8.0
I13	08 Nov 2023	1103	2	<2	<2	<2	16.9	88.76	8.8	33.17	8.1
I13	08 Nov 2023	1103	18	<2	<2	<2	15.6	89.25	8.3	33.18	8.1
I13	08 Nov 2023	1103	37	2e	<2	<2	14.5	89.43	7.1	33.22	8.0
I14	08 Nov 2023	1039	2	<2	<2	<2	16.9	88.30	9.0	33.18	8.2
I14	08 Nov 2023	1039	18	18e	2e	2e	15.2	90.27	7.9	33.17	8.1
I14	08 Nov 2023	1039	27	22e	6e	4e	14.9	84.88	7.8	33.19	8.0
I16	08 Nov 2023	1030	2	2e	2e	<2	17.0	87.69	8.9	33.18	8.1
I16	08 Nov 2023	1030	18	1200e	160e	40	15.5	88.58	8.0	33.12	8.1
I16	08 Nov 2023	1030	27	380e	34e	12e	14.9	74.02	7.7	33.19	8.0
I18	08 Nov 2023	947	2	<2	<2	10e	16.9	81.61	9.2	33.14	8.2
I18	08 Nov 2023	947	12	<2	<2	<2	15.3	89.17	8.0	33.17	8.1
I18	08 Nov 2023	947	18	<2	<2	<2	15.2	78.11	7.8	33.18	8.0
I20	08 Nov 2023	820	2	<2	<2	<2	16.8	89.45	8.7	33.17	8.1
I20	08 Nov 2023	820	18	<2	<2	8e	15.4	90.38	8.0	33.19	8.1
I20	08 Nov 2023	820	55	<2	<2	<2	13.7	91.12	6.3	33.26	7.9
I21	08 Nov 2023	848	2	<2	<2	<2	16.6	89.27	8.8	33.18	8.1
I21	08 Nov 2023	848	18	<2	<2	2e	15.5	90.81	8.2	33.15	8.1
I21	08 Nov 2023	848	37	<2	<2	<2	14.2	90.64	6.9	33.23	8.0
I22	08 Nov 2023	927	2	8e	<2	2e	16.7	88.25	9.0	33.18	8.1
I22	08 Nov 2023	927	18	12e	<2	2e	15.0	90.23	7.8	33.18	8.0
I22	08 Nov 2023	927	27	12e	<2	2e	14.9	87.38	7.6	33.20	8.0
I23	08 Nov 2023	936	2	<2	<2	<2	16.8	88.03	9.2	33.17	8.2
I23	08 Nov 2023	936	12	<2	<2	<2	15.7	88.69	8.2	33.17	8.1
I23	08 Nov 2023	936	18	<20	<2	<2	15.2	73.73	7.6	33.18	8.0
I3	07 Nov 2023	1037	2	<2	<2	<2	16.9	89.82	8.5	33.16	8.2
I3	07 Nov 2023	1037	18	2e	<2	<2	15.7	87.83	8.2	33.17	8.1
I3	07 Nov 2023	1037	27	2e	<2	<2	14.8	89.95	7.7	33.18	8.1
I30	09 Nov 2023	912	2	2e	2e	<2	16.4	86.65	9.4	33.19	8.2
I30	09 Nov 2023	912	18	<2	<2	<2	14.8	81.47	7.2	33.20	8.0
I30	09 Nov 2023	912	27	<2	<2	<2	14.7	67.28	7.0	33.20	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I33	09 Nov 2023	821	2	<2	<2	<2	16.1	90.08	8.5	33.17	8.1
I33	09 Nov 2023	821	18	<2	<2	<2	15.5	89.72	8.2	33.18	8.1
I33	09 Nov 2023	821	27	<2	<2	<2	14.5	89.97	7.2	33.21	8.0
I36	09 Nov 2023	948	2	<2	<2	<2	16.4	82.71	9.2	33.20	8.2
I36	09 Nov 2023	948	6	<2	<2	<2	16.2	78.19	8.7	33.19	8.2
I36	09 Nov 2023	948	11	<2	<2	<2	15.6	55.04	6.3	33.19	7.9
I37	09 Nov 2023	755	2	<2	<2	<2	16.3	79.13	8.4	33.20	8.1
I37	09 Nov 2023	755	6	<20	<2	<2	15.8	76.33	7.3	33.20	8.0
I37	09 Nov 2023	755	11	<20	<2	<2	15.4	71.62	7.2	33.20	8.0
I38	09 Nov 2023	1017	2	<2	<2	<2	16.6	84.43	9.6	33.20	8.2
I38	09 Nov 2023	1017	6	<2	<2	<2	16.4	79.79	9.3	33.20	8.2
I38	09 Nov 2023	1017	11	2e	<2	<2	15.6	70.28	6.2	33.19	8.0
I5	07 Nov 2023	1101	2	<2	2e	<2	16.7	83.29	8.9	33.16	8.2
I5	07 Nov 2023	1101	6	<2	<2	<2	16.3	88.30	8.6	33.17	8.2
I5	07 Nov 2023	1101	11	4e	<2	4e	15.9	82.12	9.2	33.18	8.2
I7	07 Nov 2023	905	2	<2	<2	<2	16.9	68.95	9.0	33.18	8.2
I7	07 Nov 2023	905	18	<2	<2	<2	16.1	90.32	8.4	33.16	8.1
I7	07 Nov 2023	905	52	<2	<2	2e	14.1	91.26	6.9	33.23	8.0
I8	07 Nov 2023	1218	2	<2	<2	<2	16.8	88.81	8.7	33.16	8.2
I8	07 Nov 2023	1218	18	<2	<2	<2	14.8	90.83	7.8	33.18	8.1
I8	07 Nov 2023	1218	37	<2	<2	<2	14.7	75.82	7.6	33.19	8.1
I9	07 Nov 2023	1203	2	<2	<2	<2	16.8	89.81	8.6	33.16	8.2
I9	07 Nov 2023	1203	18	<2	<2	<2	16.0	89.27	8.4	33.16	8.1
I9	07 Nov 2023	1203	27	<2	<2	<2	15.0	88.34	7.8	33.19	8.1

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
I1	07 Nov 2023	Depth (m)	60
I1	07 Nov 2023	Arrive Time	936
I1	07 Nov 2023	Depart Time	1005
I1	07 Nov 2023	Air Temp (C)	17.3
I1	07 Nov 2023	Weather	Partly Cloudy
I1	07 Nov 2023	Visibility (mi)	6
I1	07 Nov 2023	Wind Speed (kts)	5.5
I1	07 Nov 2023	Wind Dir	S
I1	07 Nov 2023	Water Color	Blue-Green
I1	07 Nov 2023	Wave Ht Low (ft)	3
I1	07 Nov 2023	Wave Period (sec)	12
I1	07 Nov 2023	Sea State	Light Chop
I1	07 Nov 2023	High Tide (ft)	4.39
I1	07 Nov 2023	High Tide Time	554
I1	07 Nov 2023	Low Tide (ft)	0.79
I1	07 Nov 2023	Low Tide Time	2336
I1	07 Nov 2023	Comments	OA 1m Btl# JA00103-1 Nsk# 4;OA 30m Btl# JA00104-1 Nsk# 3;OA 60m Btl# JA00105-1 Nsk# 2;OA 60m-dup Btl# JA00106-1 Nsk# 1;
I10	07 Nov 2023	Depth (m)	22
I10	07 Nov 2023	Arrive Time	1148
I10	07 Nov 2023	Depart Time	1153
I10	07 Nov 2023	Air Temp (C)	17.8
I10	07 Nov 2023	Weather	Partly Cloudy
I10	07 Nov 2023	Visibility (mi)	6
I10	07 Nov 2023	Wind Speed (kts)	4.5
I10	07 Nov 2023	Wind Dir	SW
I10	07 Nov 2023	Water Color	Blueish-Green
I10	07 Nov 2023	Wave Ht Low (ft)	3
I10	07 Nov 2023	Wave Period (sec)	12
I10	07 Nov 2023	Sea State	Light Chop
I10	07 Nov 2023	High Tide (ft)	4.39
I10	07 Nov 2023	High Tide Time	554
I10	07 Nov 2023	Low Tide (ft)	0.79
I10	07 Nov 2023	Low Tide Time	2336
I10	07 Nov 2023	Comments	none
I11	07 Nov 2023	Depth (m)	14
I11	07 Nov 2023	Arrive Time	1136
I11	07 Nov 2023	Depart Time	1141
I11	07 Nov 2023	Air Temp (C)	17.9
I11	07 Nov 2023	Weather	Partly Cloudy
I11	07 Nov 2023	Visibility (mi)	6
I11	07 Nov 2023	Wind Speed (kts)	3.6
I11	07 Nov 2023	Wind Dir	S
I11	07 Nov 2023	Water Color	Green
I11	07 Nov 2023	Wave Ht Low (ft)	3
I11	07 Nov 2023	Wave Period (sec)	12
I11	07 Nov 2023	Sea State	Light Chop
I11	07 Nov 2023	High Tide (ft)	4.39
I11	07 Nov 2023	High Tide Time	554
I11	07 Nov 2023	Low Tide (ft)	0.79
I11	07 Nov 2023	Low Tide Time	2336
I11	07 Nov 2023	Comments	none

Station	Date	Parameter	Value
I12	08 Nov 2023	Depth (m)	30
I12	08 Nov 2023	Arrive Time	1021
I12	08 Nov 2023	Depart Time	1026
I12	08 Nov 2023	Air Temp (C)	16.4
I12	08 Nov 2023	Weather	Clear
I12	08 Nov 2023	Visibility (mi)	11
I12	08 Nov 2023	Wind Speed (kts)	8.5
I12	08 Nov 2023	Wind Dir	NW
I12	08 Nov 2023	Water Color	Greenish-Blue
I12	08 Nov 2023	Wave Ht Low (ft)	4
I12	08 Nov 2023	Wave Period (sec)	14
I12	08 Nov 2023	Sea State	Regular Swell
I12	08 Nov 2023	High Tide (ft)	4.67
I12	08 Nov 2023	High Tide Time	612
I12	08 Nov 2023	Low Tide (ft)	0.82
I12	08 Nov 2023	Low Tide Time	6
I12	08 Nov 2023	Comments	OA at SBOO RTM OA 1m Btl# Nsk# ;OA 26m Btl# Nsk# ;OA 26m-dup Btl# Nsk# ;
I13	08 Nov 2023	Depth (m)	39
I13	08 Nov 2023	Arrive Time	1103
I13	08 Nov 2023	Depart Time	1106
I13	08 Nov 2023	Air Temp (C)	16.6
I13	08 Nov 2023	Weather	Clear
I13	08 Nov 2023	Visibility (mi)	11
I13	08 Nov 2023	Wind Speed (kts)	3.8
I13	08 Nov 2023	Wind Dir	NW
I13	08 Nov 2023	Water Color	Greenish-Blue
I13	08 Nov 2023	Wave Ht Low (ft)	4
I13	08 Nov 2023	Wave Period (sec)	14
I13	08 Nov 2023	Sea State	Regular Swell
I13	08 Nov 2023	High Tide (ft)	4.67
I13	08 Nov 2023	High Tide Time	612
I13	08 Nov 2023	Low Tide (ft)	0.82
I13	08 Nov 2023	Low Tide Time	6
I13	08 Nov 2023	Comments	none
I14	08 Nov 2023	Depth (m)	28
I14	08 Nov 2023	Arrive Time	1039
I14	08 Nov 2023	Depart Time	1043
I14	08 Nov 2023	Air Temp (C)	16.5
I14	08 Nov 2023	Weather	Clear
I14	08 Nov 2023	Visibility (mi)	11
I14	08 Nov 2023	Wind Speed (kts)	4
I14	08 Nov 2023	Wind Dir	NW
I14	08 Nov 2023	Water Color	Greenish-Blue
I14	08 Nov 2023	Wave Ht Low (ft)	4
I14	08 Nov 2023	Wave Period (sec)	14
I14	08 Nov 2023	Sea State	Regular Swell
I14	08 Nov 2023	High Tide (ft)	4.67
I14	08 Nov 2023	High Tide Time	612
I14	08 Nov 2023	Low Tide (ft)	0.82
I14	08 Nov 2023	Low Tide Time	6
I14	08 Nov 2023	Comments	none
I15	08 Nov 2023	Depth (m)	39
I15	08 Nov 2023	Arrive Time	1107
I15	08 Nov 2023	Depart Time	1107
I15	08 Nov 2023	Air Temp (C)	16.7
I15	08 Nov 2023	Weather	Clear
I15	08 Nov 2023	Visibility (mi)	11

Station	Date	Parameter	Value
I15	08 Nov 2023	Wind Speed (kts)	4.9
I15	08 Nov 2023	Wind Dir	NW
I15	08 Nov 2023	Water Color	Greenish-Blue
I15	08 Nov 2023	Wave Ht Low (ft)	4
I15	08 Nov 2023	Wave Period (sec)	14
I15	08 Nov 2023	Sea State	Regular Swell
I15	08 Nov 2023	High Tide (ft)	4.67
I15	08 Nov 2023	High Tide Time	612
I15	08 Nov 2023	Low Tide (ft)	0.82
I15	08 Nov 2023	Low Tide Time	6
I15	08 Nov 2023	Comments	none
I16	08 Nov 2023	Depth (m)	26
I16	08 Nov 2023	Arrive Time	1030
I16	08 Nov 2023	Depart Time	1033
I16	08 Nov 2023	Air Temp (C)	16.3
I16	08 Nov 2023	Weather	Clear
I16	08 Nov 2023	Visibility (mi)	11
I16	08 Nov 2023	Wind Speed (kts)	3.9
I16	08 Nov 2023	Wind Dir	N
I16	08 Nov 2023	Water Color	Greenish-Blue
I16	08 Nov 2023	Wave Ht Low (ft)	4
I16	08 Nov 2023	Wave Period (sec)	14
I16	08 Nov 2023	Sea State	Regular Swell
I16	08 Nov 2023	High Tide (ft)	4.67
I16	08 Nov 2023	High Tide Time	612
I16	08 Nov 2023	Low Tide (ft)	0.82
I16	08 Nov 2023	Low Tide Time	6
I16	08 Nov 2023	Comments	none
I17	08 Nov 2023	Depth (m)	39
I17	08 Nov 2023	Arrive Time	1106
I17	08 Nov 2023	Depart Time	1106
I17	08 Nov 2023	Air Temp (C)	16.7
I17	08 Nov 2023	Weather	Clear
I17	08 Nov 2023	Visibility (mi)	11
I17	08 Nov 2023	Wind Speed (kts)	4.3
I17	08 Nov 2023	Wind Dir	NW
I17	08 Nov 2023	Water Color	Greenish-Blue
I17	08 Nov 2023	Wave Ht Low (ft)	4
I17	08 Nov 2023	Wave Period (sec)	14
I17	08 Nov 2023	Sea State	Regular Swell
I17	08 Nov 2023	High Tide (ft)	4.67
I17	08 Nov 2023	High Tide Time	612
I17	08 Nov 2023	Low Tide (ft)	0.82
I17	08 Nov 2023	Low Tide Time	6
I17	08 Nov 2023	Comments	none
I18	08 Nov 2023	Depth (m)	20
I18	08 Nov 2023	Arrive Time	947
I18	08 Nov 2023	Depart Time	949
I18	08 Nov 2023	Air Temp (C)	16.6
I18	08 Nov 2023	Weather	Clear
I18	08 Nov 2023	Visibility (mi)	11
I18	08 Nov 2023	Wind Speed (kts)	4.1
I18	08 Nov 2023	Wind Dir	N
I18	08 Nov 2023	Water Color	Blue
I18	08 Nov 2023	Wave Ht Low (ft)	4
I18	08 Nov 2023	Wave Period (sec)	14
I18	08 Nov 2023	Sea State	Regular Swell
I18	08 Nov 2023	High Tide (ft)	4.67

Station	Date	Parameter	Value
I18	08 Nov 2023	High Tide Time	612
I18	08 Nov 2023	Low Tide (ft)	0.82
I18	08 Nov 2023	Low Tide Time	6
I18	08 Nov 2023	Comments	none
I2	07 Nov 2023	Depth (m)	33
I2	07 Nov 2023	Arrive Time	1021
I2	07 Nov 2023	Depart Time	1028
I2	07 Nov 2023	Air Temp (C)	17.2
I2	07 Nov 2023	Weather	Partly Cloudy
I2	07 Nov 2023	Visibility (mi)	6
I2	07 Nov 2023	Wind Speed (kts)	5
I2	07 Nov 2023	Wind Dir	SE
I2	07 Nov 2023	Water Color	Blue-Green
I2	07 Nov 2023	Wave Ht Low (ft)	3
I2	07 Nov 2023	Wave Period (sec)	12
I2	07 Nov 2023	Sea State	Light Chop
I2	07 Nov 2023	High Tide (ft)	4.39
I2	07 Nov 2023	High Tide Time	554
I2	07 Nov 2023	Low Tide (ft)	0.79
I2	07 Nov 2023	Low Tide Time	2336
I2	07 Nov 2023	Comments	none
I20	08 Nov 2023	Depth (m)	55
I20	08 Nov 2023	Arrive Time	820
I20	08 Nov 2023	Depart Time	832
I20	08 Nov 2023	Air Temp (C)	15.1
I20	08 Nov 2023	Weather	Clear
I20	08 Nov 2023	Visibility (mi)	11
I20	08 Nov 2023	Wind Speed (kts)	6.9
I20	08 Nov 2023	Wind Dir	E
I20	08 Nov 2023	Water Color	Blue
I20	08 Nov 2023	Wave Ht Low (ft)	4
I20	08 Nov 2023	Wave Period (sec)	14
I20	08 Nov 2023	Sea State	Regular Swell
I20	08 Nov 2023	High Tide (ft)	4.67
I20	08 Nov 2023	High Tide Time	612
I20	08 Nov 2023	Low Tide (ft)	0.82
I20	08 Nov 2023	Low Tide Time	6
I20	08 Nov 2023	Comments	none
I21	08 Nov 2023	Depth (m)	41
I21	08 Nov 2023	Arrive Time	848
I21	08 Nov 2023	Depart Time	855
I21	08 Nov 2023	Air Temp (C)	15.5
I21	08 Nov 2023	Weather	Clear
I21	08 Nov 2023	Visibility (mi)	11
I21	08 Nov 2023	Wind Speed (kts)	6.4
I21	08 Nov 2023	Wind Dir	E
I21	08 Nov 2023	Water Color	Blue
I21	08 Nov 2023	Wave Ht Low (ft)	4
I21	08 Nov 2023	Wave Period (sec)	14
I21	08 Nov 2023	Sea State	Regular Swell
I21	08 Nov 2023	High Tide (ft)	4.67
I21	08 Nov 2023	High Tide Time	612
I21	08 Nov 2023	Low Tide (ft)	0.82
I21	08 Nov 2023	Low Tide Time	6
I21	08 Nov 2023	Comments	OA 1m Nsk#1 ;OA 41m Nsk#5 ;
I22	08 Nov 2023	Depth (m)	29
I22	08 Nov 2023	Arrive Time	927

Station	Date	Parameter	Value
I22	08 Nov 2023	Depart Time	931
I22	08 Nov 2023	Air Temp (C)	16.2
I22	08 Nov 2023	Weather	Clear
I22	08 Nov 2023	Visibility (mi)	11
I22	08 Nov 2023	Wind Speed (kts)	4.9
I22	08 Nov 2023	Wind Dir	NE
I22	08 Nov 2023	Water Color	Blue
I22	08 Nov 2023	Wave Ht Low (ft)	4
I22	08 Nov 2023	Wave Period (sec)	14
I22	08 Nov 2023	Sea State	Regular Swell
I22	08 Nov 2023	High Tide (ft)	4.67
I22	08 Nov 2023	High Tide Time	612
I22	08 Nov 2023	Low Tide (ft)	0.82
I22	08 Nov 2023	Low Tide Time	6
I22	08 Nov 2023	Comments	none
I23	08 Nov 2023	Depth (m)	21
I23	08 Nov 2023	Arrive Time	936
I23	08 Nov 2023	Depart Time	939
I23	08 Nov 2023	Air Temp (C)	16.1
I23	08 Nov 2023	Weather	Clear
I23	08 Nov 2023	Visibility (mi)	11
I23	08 Nov 2023	Wind Speed (kts)	7.6
I23	08 Nov 2023	Wind Dir	E
I23	08 Nov 2023	Water Color	Blue
I23	08 Nov 2023	Wave Ht Low (ft)	4
I23	08 Nov 2023	Wave Period (sec)	14
I23	08 Nov 2023	Sea State	Regular Swell
I23	08 Nov 2023	High Tide (ft)	4.67
I23	08 Nov 2023	High Tide Time	612
I23	08 Nov 2023	Low Tide (ft)	0.82
I23	08 Nov 2023	Low Tide Time	6
I23	08 Nov 2023	Comments	none
I27	08 Nov 2023	Depth (m)	28
I27	08 Nov 2023	Arrive Time	913
I27	08 Nov 2023	Depart Time	916
I27	08 Nov 2023	Air Temp (C)	15.9
I27	08 Nov 2023	Weather	Clear
I27	08 Nov 2023	Visibility (mi)	11
I27	08 Nov 2023	Wind Speed (kts)	3.7
I27	08 Nov 2023	Wind Dir	N
I27	08 Nov 2023	Water Color	Blue
I27	08 Nov 2023	Wave Ht Low (ft)	4
I27	08 Nov 2023	Wave Period (sec)	14
I27	08 Nov 2023	Sea State	Regular Swell
I27	08 Nov 2023	High Tide (ft)	4.67
I27	08 Nov 2023	High Tide Time	612
I27	08 Nov 2023	Low Tide (ft)	0.82
I27	08 Nov 2023	Low Tide Time	6
I27	08 Nov 2023	Comments	none
I28	09 Nov 2023	Depth (m)	55
I28	09 Nov 2023	Arrive Time	835
I28	09 Nov 2023	Depart Time	848
I28	09 Nov 2023	Air Temp (C)	16
I28	09 Nov 2023	Weather	Clear
I28	09 Nov 2023	Visibility (mi)	16
I28	09 Nov 2023	Wind Speed (kts)	10.4
I28	09 Nov 2023	Wind Dir	NE
I28	09 Nov 2023	Water Color	Greenish-Blue

Station	Date	Parameter	Value
I28	09 Nov 2023	Wave Ht Low (ft)	3
I28	09 Nov 2023	Wave Period (sec)	15
I28	09 Nov 2023	Sea State	Regular Swell
I28	09 Nov 2023	High Tide (ft)	4.99
I28	09 Nov 2023	High Tide Time	636
I28	09 Nov 2023	Low Tide (ft)	0.92
I28	09 Nov 2023	Low Tide Time	6
I28	09 Nov 2023	Comments	OA 1m Btl# JA00109-1 Nsk# 2;OA 55m Btl# JA00110-1 Nsk# 1;
I29	09 Nov 2023	Depth (m)	37
I29	09 Nov 2023	Arrive Time	900
I29	09 Nov 2023	Depart Time	906
I29	09 Nov 2023	Air Temp (C)	16
I29	09 Nov 2023	Weather	Clear
I29	09 Nov 2023	Visibility (mi)	16
I29	09 Nov 2023	Wind Speed (kts)	7.1
I29	09 Nov 2023	Wind Dir	NE
I29	09 Nov 2023	Water Color	Greenish-Blue
I29	09 Nov 2023	Wave Ht Low (ft)	3
I29	09 Nov 2023	Wave Period (sec)	15
I29	09 Nov 2023	Sea State	Regular Swell
I29	09 Nov 2023	High Tide (ft)	4.99
I29	09 Nov 2023	High Tide Time	636
I29	09 Nov 2023	Low Tide (ft)	0.92
I29	09 Nov 2023	Low Tide Time	6
I29	09 Nov 2023	Comments	none
I3	07 Nov 2023	Depth (m)	28
I3	07 Nov 2023	Arrive Time	1037
I3	07 Nov 2023	Depart Time	1044
I3	07 Nov 2023	Air Temp (C)	17.4
I3	07 Nov 2023	Weather	Partly Cloudy
I3	07 Nov 2023	Visibility (mi)	6
I3	07 Nov 2023	Wind Speed (kts)	1.2
I3	07 Nov 2023	Wind Dir	S
I3	07 Nov 2023	Water Color	Blue Green
I3	07 Nov 2023	Wave Ht Low (ft)	3
I3	07 Nov 2023	Wave Period (sec)	12
I3	07 Nov 2023	Sea State	Light Chop
I3	07 Nov 2023	High Tide (ft)	4.39
I3	07 Nov 2023	High Tide Time	554
I3	07 Nov 2023	Low Tide (ft)	0.79
I3	07 Nov 2023	Low Tide Time	2336
I3	07 Nov 2023	Comments	none
I30	09 Nov 2023	Depth (m)	28
I30	09 Nov 2023	Arrive Time	912
I30	09 Nov 2023	Depart Time	918
I30	09 Nov 2023	Air Temp (C)	16
I30	09 Nov 2023	Weather	Clear
I30	09 Nov 2023	Visibility (mi)	16
I30	09 Nov 2023	Wind Speed (kts)	6.9
I30	09 Nov 2023	Wind Dir	N
I30	09 Nov 2023	Water Color	Greenish-Blue
I30	09 Nov 2023	Wave Ht Low (ft)	3
I30	09 Nov 2023	Wave Period (sec)	15
I30	09 Nov 2023	Sea State	Regular Swell
I30	09 Nov 2023	High Tide (ft)	4.99
I30	09 Nov 2023	High Tide Time	636
I30	09 Nov 2023	Low Tide (ft)	0.92

Station	Date	Parameter	Value
I30	09 Nov 2023	Low Tide Time	6
I30	09 Nov 2023	Comments	none
I31	09 Nov 2023	Depth (m)	19
I31	09 Nov 2023	Arrive Time	926
I31	09 Nov 2023	Depart Time	930
I31	09 Nov 2023	Air Temp (C)	16.4
I31	09 Nov 2023	Weather	Clear
I31	09 Nov 2023	Visibility (mi)	16
I31	09 Nov 2023	Wind Speed (kts)	7.9
I31	09 Nov 2023	Wind Dir	N
I31	09 Nov 2023	Water Color	Greenish-Blue
I31	09 Nov 2023	Wave Ht Low (ft)	3
I31	09 Nov 2023	Wave Period (sec)	15
I31	09 Nov 2023	Sea State	Regular Swell
I31	09 Nov 2023	High Tide (ft)	4.99
I31	09 Nov 2023	High Tide Time	636
I31	09 Nov 2023	Low Tide (ft)	0.92
I31	09 Nov 2023	Low Tide Time	6
I31	09 Nov 2023	Comments	none
I33	09 Nov 2023	Depth (m)	31
I33	09 Nov 2023	Arrive Time	821
I33	09 Nov 2023	Depart Time	826
I33	09 Nov 2023	Air Temp (C)	15.6
I33	09 Nov 2023	Weather	Clear
I33	09 Nov 2023	Visibility (mi)	16
I33	09 Nov 2023	Wind Speed (kts)	4.1
I33	09 Nov 2023	Wind Dir	NE
I33	09 Nov 2023	Water Color	Greenish-Blue
I33	09 Nov 2023	Wave Ht Low (ft)	3
I33	09 Nov 2023	Wave Period (sec)	15
I33	09 Nov 2023	Sea State	Regular Swell
I33	09 Nov 2023	High Tide (ft)	4.99
I33	09 Nov 2023	High Tide Time	636
I33	09 Nov 2023	Low Tide (ft)	0.92
I33	09 Nov 2023	Low Tide Time	6
I33	09 Nov 2023	Comments	none
I34	09 Nov 2023	Depth (m)	21
I34	09 Nov 2023	Arrive Time	808
I34	09 Nov 2023	Depart Time	812
I34	09 Nov 2023	Air Temp (C)	15.6
I34	09 Nov 2023	Weather	Clear
I34	09 Nov 2023	Visibility (mi)	16
I34	09 Nov 2023	Wind Speed (kts)	5.2
I34	09 Nov 2023	Wind Dir	E
I34	09 Nov 2023	Water Color	Greenish-Blue
I34	09 Nov 2023	Wave Ht Low (ft)	3
I34	09 Nov 2023	Wave Period (sec)	15
I34	09 Nov 2023	Sea State	Regular Swell
I34	09 Nov 2023	High Tide (ft)	4.99
I34	09 Nov 2023	High Tide Time	636
I34	09 Nov 2023	Low Tide (ft)	0.92
I34	09 Nov 2023	Low Tide Time	6
I34	09 Nov 2023	Comments	none
I35	09 Nov 2023	Depth (m)	19
I35	09 Nov 2023	Arrive Time	1001
I35	09 Nov 2023	Depart Time	1005
I35	09 Nov 2023	Air Temp (C)	16.7

Station	Date	Parameter	Value
I35	09 Nov 2023	Weather	Clear
I35	09 Nov 2023	Visibility (mi)	16
I35	09 Nov 2023	Wind Speed (kts)	7.6
I35	09 Nov 2023	Wind Dir	NW
I35	09 Nov 2023	Water Color	Greenish-Blue
I35	09 Nov 2023	Wave Ht Low (ft)	3
I35	09 Nov 2023	Wave Period (sec)	15
I35	09 Nov 2023	Sea State	Regular Swell
I35	09 Nov 2023	High Tide (ft)	4.99
I35	09 Nov 2023	High Tide Time	636
I35	09 Nov 2023	Low Tide (ft)	0.92
I35	09 Nov 2023	Low Tide Time	6
I35	09 Nov 2023	Comments	none
I36	09 Nov 2023	Depth (m)	13
I36	09 Nov 2023	Arrive Time	948
I36	09 Nov 2023	Depart Time	951
I36	09 Nov 2023	Air Temp (C)	17.3
I36	09 Nov 2023	Weather	Clear
I36	09 Nov 2023	Visibility (mi)	16
I36	09 Nov 2023	Wind Speed (kts)	3.1
I36	09 Nov 2023	Wind Dir	NW
I36	09 Nov 2023	Water Color	Greenish-Blue
I36	09 Nov 2023	Wave Ht Low (ft)	3
I36	09 Nov 2023	Wave Period (sec)	15
I36	09 Nov 2023	Sea State	Regular Swell
I36	09 Nov 2023	High Tide (ft)	4.99
I36	09 Nov 2023	High Tide Time	636
I36	09 Nov 2023	Low Tide (ft)	0.92
I36	09 Nov 2023	Low Tide Time	6
I36	09 Nov 2023	Comments	none
I37	09 Nov 2023	Depth (m)	13
I37	09 Nov 2023	Arrive Time	755
I37	09 Nov 2023	Depart Time	802
I37	09 Nov 2023	Air Temp (C)	14.9
I37	09 Nov 2023	Weather	Clear
I37	09 Nov 2023	Visibility (mi)	16
I37	09 Nov 2023	Wind Speed (kts)	4.1
I37	09 Nov 2023	Wind Dir	E
I37	09 Nov 2023	Water Color	Greenish-Blue
I37	09 Nov 2023	Wave Ht Low (ft)	3
I37	09 Nov 2023	Wave Period (sec)	15
I37	09 Nov 2023	Sea State	Regular Swell
I37	09 Nov 2023	High Tide (ft)	4.99
I37	09 Nov 2023	High Tide Time	636
I37	09 Nov 2023	Low Tide (ft)	0.92
I37	09 Nov 2023	Low Tide Time	6
I37	09 Nov 2023	Comments	none
I38	09 Nov 2023	Depth (m)	12
I38	09 Nov 2023	Arrive Time	1017
I38	09 Nov 2023	Depart Time	1028
I38	09 Nov 2023	Air Temp (C)	17.2
I38	09 Nov 2023	Weather	Clear
I38	09 Nov 2023	Visibility (mi)	16
I38	09 Nov 2023	Wind Speed (kts)	3.5
I38	09 Nov 2023	Wind Dir	W
I38	09 Nov 2023	Water Color	Greenish-Blue
I38	09 Nov 2023	Wave Ht Low (ft)	3
I38	09 Nov 2023	Wave Period (sec)	15

Station	Date	Parameter	Value
I38	09 Nov 2023	Sea State	Regular Swell
I38	09 Nov 2023	High Tide (ft)	4.99
I38	09 Nov 2023	High Tide Time	636
I38	09 Nov 2023	Low Tide (ft)	0.92
I38	09 Nov 2023	Low Tide Time	6
I38	09 Nov 2023	Comments	none
I4	07 Nov 2023	Depth (m)	20
I4	07 Nov 2023	Arrive Time	1053
I4	07 Nov 2023	Depart Time	1057
I4	07 Nov 2023	Air Temp (C)	17.7
I4	07 Nov 2023	Weather	Partly Cloudy
I4	07 Nov 2023	Visibility (mi)	6
I4	07 Nov 2023	Wind Speed (kts)	3.1
I4	07 Nov 2023	Wind Dir	SE
I4	07 Nov 2023	Water Color	Blueish-Green
I4	07 Nov 2023	Wave Ht Low (ft)	3
I4	07 Nov 2023	Wave Period (sec)	12
I4	07 Nov 2023	Sea State	Light Chop
I4	07 Nov 2023	High Tide (ft)	4.39
I4	07 Nov 2023	High Tide Time	554
I4	07 Nov 2023	Low Tide (ft)	0.79
I4	07 Nov 2023	Low Tide Time	2336
I4	07 Nov 2023	Comments	none
I5	07 Nov 2023	Depth (m)	14
I5	07 Nov 2023	Arrive Time	1101
I5	07 Nov 2023	Depart Time	1109
I5	07 Nov 2023	Air Temp (C)	17.8
I5	07 Nov 2023	Weather	Partly Cloudy
I5	07 Nov 2023	Visibility (mi)	6
I5	07 Nov 2023	Wind Speed (kts)	3.9
I5	07 Nov 2023	Wind Dir	S
I5	07 Nov 2023	Water Color	Green
I5	07 Nov 2023	Wave Ht Low (ft)	3
I5	07 Nov 2023	Wave Period (sec)	12
I5	07 Nov 2023	Sea State	Light Chop
I5	07 Nov 2023	High Tide (ft)	4.39
I5	07 Nov 2023	High Tide Time	554
I5	07 Nov 2023	Low Tide (ft)	0.79
I5	07 Nov 2023	Low Tide Time	2336
I5	07 Nov 2023	Comments	none
I6	07 Nov 2023	Depth (m)	26
I6	07 Nov 2023	Arrive Time	1121
I6	07 Nov 2023	Depart Time	1125
I6	07 Nov 2023	Air Temp (C)	17.9
I6	07 Nov 2023	Weather	Partly Cloudy
I6	07 Nov 2023	Visibility (mi)	6
I6	07 Nov 2023	Wind Speed (kts)	0
I6	07 Nov 2023	Wind Dir	W
I6	07 Nov 2023	Water Color	Blueish-Green
I6	07 Nov 2023	Wave Ht Low (ft)	3
I6	07 Nov 2023	Wave Period (sec)	12
I6	07 Nov 2023	Sea State	Light Chop
I6	07 Nov 2023	High Tide (ft)	4.39
I6	07 Nov 2023	High Tide Time	554
I6	07 Nov 2023	Low Tide (ft)	0.79
I6	07 Nov 2023	Low Tide Time	2336
I6	07 Nov 2023	Comments	none

Station	Date	Parameter	Value
I7	07 Nov 2023	Depth (m)	51
I7	07 Nov 2023	Arrive Time	905
I7	07 Nov 2023	Depart Time	917
I7	07 Nov 2023	Air Temp (C)	17.1
I7	07 Nov 2023	Weather	Partly Cloudy
I7	07 Nov 2023	Visibility (mi)	6
I7	07 Nov 2023	Wind Speed (kts)	4.9
I7	07 Nov 2023	Wind Dir	S
I7	07 Nov 2023	Water Color	Blue-Green
I7	07 Nov 2023	Wave Ht Low (ft)	3
I7	07 Nov 2023	Wave Period (sec)	12
I7	07 Nov 2023	Sea State	Light Chop
I7	07 Nov 2023	High Tide (ft)	4.39
I7	07 Nov 2023	High Tide Time	554
I7	07 Nov 2023	Low Tide (ft)	0.79
I7	07 Nov 2023	Low Tide Time	2336
I7	07 Nov 2023	Comments	none
I8	07 Nov 2023	Depth (m)	36
I8	07 Nov 2023	Arrive Time	1218
I8	07 Nov 2023	Depart Time	1225
I8	07 Nov 2023	Air Temp (C)	17.9
I8	07 Nov 2023	Weather	Partly Cloudy
I8	07 Nov 2023	Visibility (mi)	6
I8	07 Nov 2023	Wind Speed (kts)	6.1
I8	07 Nov 2023	Wind Dir	W
I8	07 Nov 2023	Water Color	Blueish-Green
I8	07 Nov 2023	Wave Ht Low (ft)	3
I8	07 Nov 2023	Wave Period (sec)	12
I8	07 Nov 2023	Sea State	Light Chop
I8	07 Nov 2023	High Tide (ft)	4.39
I8	07 Nov 2023	High Tide Time	554
I8	07 Nov 2023	Low Tide (ft)	0.79
I8	07 Nov 2023	Low Tide Time	2336
I8	07 Nov 2023	Comments	none
I9	07 Nov 2023	Depth (m)	29
I9	07 Nov 2023	Arrive Time	1203
I9	07 Nov 2023	Depart Time	1208
I9	07 Nov 2023	Air Temp (C)	17.9
I9	07 Nov 2023	Weather	Partly Cloudy
I9	07 Nov 2023	Visibility (mi)	6
I9	07 Nov 2023	Wind Speed (kts)	6.1
I9	07 Nov 2023	Wind Dir	SW
I9	07 Nov 2023	Water Color	Blueish-Green
I9	07 Nov 2023	Wave Ht Low (ft)	3
I9	07 Nov 2023	Wave Period (sec)	12
I9	07 Nov 2023	Sea State	Light Chop
I9	07 Nov 2023	High Tide (ft)	4.39
I9	07 Nov 2023	High Tide Time	554
I9	07 Nov 2023	Low Tide (ft)	0.79
I9	07 Nov 2023	Low Tide Time	2336
I9	07 Nov 2023	Comments	none

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 (σ-t)	Chlor (µg/L)
I1	07 Nov 2023	1	16.81	65.77	8.6	33.15	8.2	24.1	0.97
I1	07 Nov 2023	2	16.80	77.95	8.6	33.15	8.2	24.1	0.96
I1	07 Nov 2023	3	16.60	87.29	8.6	33.16	8.2	24.2	0.91
I1	07 Nov 2023	4	16.53	89.55	8.6	33.16	8.2	24.2	0.89
I1	07 Nov 2023	5	16.42	89.83	8.6	33.16	8.2	24.2	0.94
I1	07 Nov 2023	6	16.36	89.81	8.5	33.16	8.2	24.3	1.00
I1	07 Nov 2023	7	16.26	89.97	8.4	33.15	8.1	24.3	1.07
I1	07 Nov 2023	8	15.91	89.98	8.4	33.16	8.1	24.4	1.19
I1	07 Nov 2023	9	15.81	90.07	8.4	33.16	8.1	24.4	1.22
I1	07 Nov 2023	10	15.78	90.23	8.4	33.16	8.1	24.4	1.26
I1	07 Nov 2023	11	15.66	90.01	8.3	33.17	8.1	24.4	1.40
I1	07 Nov 2023	12	15.60	89.99	8.3	33.17	8.1	24.4	1.48
I1	07 Nov 2023	13	15.62	89.98	8.3	33.17	8.1	24.4	1.53
I1	07 Nov 2023	14	15.55	90.09	8.2	33.17	8.1	24.4	1.54
I1	07 Nov 2023	15	15.33	90.10	8.2	33.18	8.1	24.5	1.51
I1	07 Nov 2023	16	15.30	90.22	8.1	33.18	8.1	24.5	1.52
I1	07 Nov 2023	17	15.15	90.42	8.0	33.18	8.1	24.5	1.55
I1	07 Nov 2023	18	15.15	90.36	8.0	33.18	8.1	24.5	1.70
I1	07 Nov 2023	19	15.05	90.38	8.0	33.19	8.1	24.6	1.41
I1	07 Nov 2023	20	15.05	90.54	7.9	33.19	8.1	24.6	1.43
I1	07 Nov 2023	21	15.04	90.81	7.9	33.19	8.1	24.6	1.38
I1	07 Nov 2023	22	15.02	90.71	7.9	33.19	8.1	24.6	1.37
I1	07 Nov 2023	23	14.97	91.23	7.8	33.19	8.1	24.6	1.29
I1	07 Nov 2023	24	14.84	91.11	7.8	33.19	8.1	24.6	1.28
I1	07 Nov 2023	25	14.81	91.12	7.8	33.19	8.1	24.6	1.22
I1	07 Nov 2023	26	14.82	91.11	7.7	33.19	8.1	24.6	1.28
I1	07 Nov 2023	27	14.71	91.23	7.6	33.19	8.1	24.6	1.23
I1	07 Nov 2023	28	14.55	91.21	7.5	33.20	8.1	24.7	1.15
I1	07 Nov 2023	29	14.39	91.19	7.4	33.21	8.0	24.7	1.29
I1	07 Nov 2023	30	14.34	91.51	7.3	33.22	8.0	24.7	1.23
I1	07 Nov 2023	31	14.29	91.61	7.2	33.23	8.0	24.8	1.13
I1	07 Nov 2023	32	14.27	91.57	7.2	33.23	8.0	24.8	1.19
I1	07 Nov 2023	33	14.22	91.64	7.2	33.23	8.0	24.8	1.05
I1	07 Nov 2023	34	14.20	91.67	7.1	33.23	8.0	24.8	1.10
I1	07 Nov 2023	35	14.16	91.65	7.0	33.23	8.0	24.8	1.03
I1	07 Nov 2023	36	14.09	91.59	7.0	33.24	8.0	24.8	1.07
I1	07 Nov 2023	37	14.08	91.53	7.0	33.24	8.0	24.8	1.06
I1	07 Nov 2023	38	14.07	91.65	7.0	33.24	8.0	24.8	1.15
I1	07 Nov 2023	39	14.03	91.65	6.9	33.25	8.0	24.8	1.10
I1	07 Nov 2023	40	14.03	91.56	6.9	33.25	8.0	24.8	1.00
I1	07 Nov 2023	41	14.03	91.52	6.9	33.25	8.0	24.8	0.97
I1	07 Nov 2023	42	14.02	91.52	6.9	33.25	8.0	24.8	0.96
I1	07 Nov 2023	43	14.02	91.43	6.9	33.25	8.0	24.8	0.94
I1	07 Nov 2023	44	14.01	91.52	6.9	33.25	8.0	24.8	0.95
I1	07 Nov 2023	45	13.99	91.54	6.8	33.25	8.0	24.8	0.96
I1	07 Nov 2023	46	13.98	91.37	6.8	33.25	8.0	24.8	1.01
I1	07 Nov 2023	47	13.96	91.41	6.7	33.26	8.0	24.8	0.97
I1	07 Nov 2023	48	13.94	91.34	6.8	33.26	8.0	24.9	0.93
I1	07 Nov 2023	49	13.92	91.40	6.8	33.26	8.0	24.9	0.90
I1	07 Nov 2023	50	13.90	91.40	6.8	33.26	8.0	24.9	0.89
I1	07 Nov 2023	51	13.85	91.34	6.7	33.27	8.0	24.9	0.88
I1	07 Nov 2023	52	13.81	91.29	6.7	33.27	8.0	24.9	0.86
I1	07 Nov 2023	53	13.80	91.25	6.6	33.27	8.0	24.9	0.84
I1	07 Nov 2023	54	13.78	91.31	6.6	33.28	8.0	24.9	0.84
I1	07 Nov 2023	55	13.75	91.30	6.5	33.28	8.0	24.9	0.79
I1	07 Nov 2023	56	13.68	91.34	6.4	33.30	8.0	24.9	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I1	07 Nov 2023	57	13.63	91.32	6.4	33.30	8.0	25.0	0.72
I1	07 Nov 2023	58	13.62	91.26	6.3	33.31	8.0	25.0	0.72
I1	07 Nov 2023	59	13.62	91.09	6.3	33.31	8.0	25.0	0.71
I1	07 Nov 2023	60	13.62	91.04	6.3	33.31	8.0	25.0	0.72
I10	07 Nov 2023	1	16.99	88.35	8.8	33.17	8.2	24.1	0.77
I10	07 Nov 2023	2	16.79	87.30	8.8	33.17	8.2	24.2	0.90
I10	07 Nov 2023	3	16.72	87.36	8.9	33.17	8.2	24.2	0.96
I10	07 Nov 2023	4	16.56	88.03	8.8	33.17	8.2	24.2	0.80
I10	07 Nov 2023	5	16.52	88.87	8.6	33.16	8.2	24.2	0.73
I10	07 Nov 2023	6	16.42	89.43	8.6	33.16	8.2	24.2	0.68
I10	07 Nov 2023	7	16.39	90.29	8.6	33.16	8.2	24.2	0.59
I10	07 Nov 2023	8	16.35	90.72	8.5	33.16	8.2	24.3	0.59
I10	07 Nov 2023	9	16.23	90.55	8.4	33.16	8.2	24.3	0.63
I10	07 Nov 2023	10	16.01	90.53	8.4	33.15	8.2	24.3	0.76
I10	07 Nov 2023	11	15.77	90.03	8.4	33.16	8.1	24.4	0.98
I10	07 Nov 2023	12	15.62	89.32	8.3	33.15	8.1	24.4	1.21
I10	07 Nov 2023	13	15.34	88.92	8.2	33.17	8.1	24.5	1.55
I10	07 Nov 2023	14	15.31	87.04	8.2	33.17	8.1	24.5	2.17
I10	07 Nov 2023	15	15.35	85.24	8.2	33.17	8.1	24.5	2.27
I10	07 Nov 2023	16	15.31	84.53	8.0	33.18	8.1	24.5	2.62
I10	07 Nov 2023	17	15.29	83.60	7.9	33.18	8.1	24.5	3.21
I10	07 Nov 2023	18	15.28	80.96	7.9	33.18	8.1	24.5	3.03
I10	07 Nov 2023	19	15.26	82.23	7.8	33.18	8.1	24.5	2.09
I11	07 Nov 2023	1	16.93	80.96	9.7	33.16	8.2	24.1	0.99
I11	07 Nov 2023	2	16.54	81.36	9.3	33.16	8.2	24.2	1.06
I11	07 Nov 2023	3	16.26	81.71	8.9	33.17	8.2	24.3	1.10
I11	07 Nov 2023	4	16.13	83.88	8.8	33.17	8.2	24.3	1.09
I11	07 Nov 2023	5	16.07	85.92	9.0	33.17	8.2	24.3	1.34
I11	07 Nov 2023	6	16.04	85.05	9.2	33.17	8.2	24.3	2.09
I11	07 Nov 2023	7	16.03	83.34	9.3	33.17	8.2	24.3	2.89
I11	07 Nov 2023	8	16.01	82.26	9.2	33.17	8.2	24.3	2.63
I11	07 Nov 2023	9	15.96	83.57	8.9	33.18	8.2	24.4	2.16
I11	07 Nov 2023	10	15.88	84.30	8.4	33.18	8.2	24.4	1.99
I11	07 Nov 2023	11	15.59	83.64	7.6	33.18	8.1	24.4	2.07
I11	07 Nov 2023	12	15.52	79.16	7.3	33.18	8.1	24.5	1.51
I11	07 Nov 2023	13	15.52	71.57	7.2	33.18	8.1	24.5	1.05
I12	08 Nov 2023	1	16.91	88.82	8.9	33.18	8.1	24.1	0.49
I12	08 Nov 2023	2	16.93	88.59	8.8	33.18	8.1	24.1	0.46
I12	08 Nov 2023	3	16.87	88.93	8.8	33.17	8.1	24.1	0.49
I12	08 Nov 2023	4	16.62	88.86	8.7	33.16	8.1	24.2	0.62
I12	08 Nov 2023	5	16.41	88.27	8.6	33.13	8.1	24.2	0.78
I12	08 Nov 2023	6	16.17	87.86	8.4	33.08	8.1	24.2	0.81
I12	08 Nov 2023	7	16.07	87.08	8.3	33.05	8.1	24.2	0.82
I12	08 Nov 2023	8	16.00	86.10	8.3	33.05	8.1	24.2	0.81
I12	08 Nov 2023	9	15.92	86.04	8.2	33.03	8.1	24.3	0.88
I12	08 Nov 2023	10	15.71	85.53	8.0	33.00	8.1	24.3	0.90
I12	08 Nov 2023	11	15.47	84.97	7.9	32.99	8.1	24.3	0.96
I12	08 Nov 2023	12	15.40	84.94	8.0	33.02	8.0	24.4	1.04
I12	08 Nov 2023	13	15.40	84.63	7.9	33.02	8.0	24.4	1.16
I12	08 Nov 2023	14	15.32	84.89	7.9	33.04	8.0	24.4	1.17
I12	08 Nov 2023	15	15.28	84.84	7.9	33.10	8.0	24.4	1.25
I12	08 Nov 2023	16	15.27	85.73	7.9	33.13	8.0	24.5	1.15
I12	08 Nov 2023	17	15.12	87.55	7.8	33.12	8.0	24.5	1.15
I12	08 Nov 2023	18	15.08	87.97	7.8	33.15	8.0	24.5	1.08
I12	08 Nov 2023	19	15.04	88.72	7.7	33.18	8.0	24.6	1.18
I12	08 Nov 2023	20	15.00	89.20	7.8	33.19	8.0	24.6	1.14
I12	08 Nov 2023	21	14.99	89.13	7.8	33.19	8.0	24.6	1.17
I12	08 Nov 2023	22	14.98	89.27	7.8	33.19	8.0	24.6	1.20

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I12	08 Nov 2023	23	14.97	89.81	7.8	33.19	8.0	24.6	1.12
I12	08 Nov 2023	24	14.95	90.10	7.8	33.19	8.0	24.6	1.11
I12	08 Nov 2023	25	14.95	90.22	7.8	33.19	8.0	24.6	1.15
I12	08 Nov 2023	26	14.95	88.55	7.7	33.19	8.0	24.6	1.22
I12	08 Nov 2023	27	14.95	82.95	7.7	33.19	8.0	24.6	1.19
I12	08 Nov 2023	28	14.93	80.02	7.6	33.19	8.0	24.6	1.28
I13	08 Nov 2023	1	16.91	88.70	8.8	33.17	8.1	24.1	0.49
I13	08 Nov 2023	2	16.89	88.76	8.8	33.17	8.1	24.1	0.49
I13	08 Nov 2023	3	16.85	88.58	8.8	33.17	8.1	24.1	0.50
I13	08 Nov 2023	4	16.79	88.87	8.8	33.17	8.1	24.2	0.56
I13	08 Nov 2023	5	16.75	88.41	8.9	33.17	8.2	24.2	0.76
I13	08 Nov 2023	6	16.73	87.54	8.9	33.17	8.2	24.2	0.93
I13	08 Nov 2023	7	16.71	87.54	8.9	33.17	8.2	24.2	1.01
I13	08 Nov 2023	8	16.70	87.75	8.9	33.17	8.2	24.2	1.04
I13	08 Nov 2023	9	16.69	87.96	8.9	33.17	8.1	24.2	0.98
I13	08 Nov 2023	10	16.53	88.49	8.7	33.17	8.1	24.2	0.94
I13	08 Nov 2023	11	16.31	88.98	8.6	33.18	8.1	24.3	1.00
I13	08 Nov 2023	12	16.08	88.86	8.5	33.18	8.1	24.3	0.91
I13	08 Nov 2023	13	15.92	88.60	8.5	33.17	8.1	24.4	0.98
I13	08 Nov 2023	14	15.85	88.75	8.4	33.17	8.1	24.4	1.01
I13	08 Nov 2023	15	15.81	89.27	8.4	33.17	8.1	24.4	0.98
I13	08 Nov 2023	16	15.79	89.30	8.4	33.18	8.1	24.4	1.04
I13	08 Nov 2023	17	15.74	89.28	8.3	33.18	8.1	24.4	1.11
I13	08 Nov 2023	18	15.58	89.25	8.3	33.18	8.1	24.4	1.21
I13	08 Nov 2023	19	15.45	89.11	8.2	33.18	8.1	24.5	1.31
I13	08 Nov 2023	20	15.23	89.16	8.1	33.17	8.1	24.5	1.31
I13	08 Nov 2023	21	15.16	89.63	8.0	33.17	8.1	24.5	1.31
I13	08 Nov 2023	22	15.12	89.90	8.0	33.18	8.1	24.5	1.39
I13	08 Nov 2023	23	15.09	89.82	7.9	33.18	8.1	24.5	1.40
I13	08 Nov 2023	24	14.99	89.97	7.8	33.19	8.1	24.6	1.45
I13	08 Nov 2023	25	14.92	90.02	7.7	33.20	8.0	24.6	1.45
I13	08 Nov 2023	26	14.88	90.07	7.7	33.20	8.0	24.6	1.33
I13	08 Nov 2023	27	14.87	90.29	7.7	33.20	8.0	24.6	1.26
I13	08 Nov 2023	28	14.85	90.48	7.6	33.20	8.0	24.6	1.29
I13	08 Nov 2023	29	14.75	90.70	7.5	33.20	8.0	24.6	1.30
I13	08 Nov 2023	30	14.68	90.89	7.5	33.20	8.0	24.7	1.11
I13	08 Nov 2023	31	14.66	91.18	7.4	33.20	8.0	24.7	1.09
I13	08 Nov 2023	32	14.63	91.22	7.4	33.21	8.0	24.7	1.01
I13	08 Nov 2023	33	14.63	90.71	7.4	33.21	8.0	24.7	0.97
I13	08 Nov 2023	34	14.64	90.88	7.4	33.21	8.0	24.7	0.99
I13	08 Nov 2023	35	14.62	90.69	7.4	33.21	8.0	24.7	0.97
I13	08 Nov 2023	36	14.56	90.25	7.2	33.21	8.0	24.7	0.88
I13	08 Nov 2023	37	14.47	89.43	7.1	33.22	8.0	24.7	0.86
I13	08 Nov 2023	38	14.44	85.05	7.1	33.22	8.0	24.7	0.88
I14	08 Nov 2023	1	16.90	88.25	9.0	33.18	8.2	24.1	0.52
I14	08 Nov 2023	2	16.87	88.30	9.0	33.18	8.2	24.1	0.56
I14	08 Nov 2023	3	16.75	87.99	9.0	33.17	8.2	24.2	0.71
I14	08 Nov 2023	4	16.72	87.56	9.0	33.17	8.2	24.2	0.89
I14	08 Nov 2023	5	16.67	87.00	8.9	33.17	8.1	24.2	1.06
I14	08 Nov 2023	6	16.52	86.89	8.8	33.16	8.1	24.2	1.02
I14	08 Nov 2023	7	16.39	87.35	8.7	33.15	8.1	24.2	1.03
I14	08 Nov 2023	8	16.30	88.22	8.6	33.15	8.1	24.3	1.06
I14	08 Nov 2023	9	16.18	88.65	8.5	33.15	8.1	24.3	1.07
I14	08 Nov 2023	10	16.05	89.01	8.4	33.14	8.1	24.3	1.06
I14	08 Nov 2023	11	15.94	89.43	8.4	33.14	8.1	24.3	1.04
I14	08 Nov 2023	12	15.84	89.86	8.3	33.13	8.1	24.3	1.08
I14	08 Nov 2023	13	15.71	89.82	8.2	33.13	8.1	24.4	1.05
I14	08 Nov 2023	14	15.58	89.82	8.1	33.15	8.1	24.4	1.14
I14	08 Nov 2023	15	15.56	90.08	8.2	33.15	8.1	24.4	1.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I14	08 Nov 2023	16	15.44	90.01	8.0	33.15	8.1	24.5	1.11
I14	08 Nov 2023	17	15.25	90.17	7.9	33.17	8.1	24.5	1.16
I14	08 Nov 2023	18	15.18	90.27	7.9	33.17	8.1	24.5	1.17
I14	08 Nov 2023	19	15.14	90.72	7.8	33.17	8.0	24.5	1.04
I14	08 Nov 2023	20	15.05	90.41	7.9	33.17	8.0	24.6	0.98
I14	08 Nov 2023	21	15.03	90.46	7.9	33.18	8.0	24.6	1.01
I14	08 Nov 2023	22	14.98	90.66	7.8	33.19	8.0	24.6	1.09
I14	08 Nov 2023	23	14.96	88.39	7.7	33.19	8.0	24.6	1.27
I14	08 Nov 2023	24	14.95	85.50	7.7	33.19	8.0	24.6	1.25
I14	08 Nov 2023	25	14.93	87.03	7.7	33.19	8.0	24.6	1.18
I14	08 Nov 2023	26	14.92	87.51	7.8	33.19	8.0	24.6	1.30
I14	08 Nov 2023	27	14.93	84.88	7.8	33.19	8.0	24.6	1.21
I14	08 Nov 2023	28	14.90	80.16	7.7	33.19	8.0	24.6	1.28
I15	08 Nov 2023	1	16.94	88.85	8.8	33.18	8.1	24.1	0.50
I15	08 Nov 2023	2	16.91	88.88	8.9	33.18	8.1	24.1	0.52
I15	08 Nov 2023	3	16.85	88.96	8.9	33.18	8.1	24.1	0.52
I15	08 Nov 2023	4	16.67	88.56	8.8	33.17	8.1	24.2	0.71
I15	08 Nov 2023	5	16.56	87.89	8.7	33.17	8.1	24.2	0.88
I15	08 Nov 2023	6	16.44	87.98	8.7	33.17	8.1	24.2	0.86
I15	08 Nov 2023	7	16.31	88.71	8.6	33.16	8.1	24.3	0.88
I15	08 Nov 2023	8	16.31	89.48	8.6	33.16	8.1	24.3	0.78
I15	08 Nov 2023	9	16.14	89.47	8.4	33.16	8.1	24.3	0.76
I15	08 Nov 2023	10	15.92	89.69	8.3	33.16	8.1	24.3	0.74
I15	08 Nov 2023	11	15.71	90.04	8.2	33.16	8.1	24.4	0.88
I15	08 Nov 2023	12	15.55	89.95	8.1	33.17	8.1	24.4	1.07
I15	08 Nov 2023	13	15.47	89.78	8.1	33.17	8.1	24.5	1.30
I15	08 Nov 2023	14	15.29	89.81	7.9	33.17	8.1	24.5	1.44
I15	08 Nov 2023	15	15.15	89.96	7.9	33.17	8.1	24.5	1.33
I15	08 Nov 2023	16	15.14	90.31	7.9	33.17	8.0	24.5	1.22
I15	08 Nov 2023	17	15.02	90.72	7.8	33.18	8.0	24.6	1.17
I15	08 Nov 2023	18	14.95	90.00	7.8	33.18	8.0	24.6	1.20
I15	08 Nov 2023	19	14.94	89.24	7.8	33.18	8.0	24.6	1.05
I15	08 Nov 2023	20	14.94	88.97	7.8	33.18	8.0	24.6	1.12
I15	08 Nov 2023	21	14.94	89.05	7.7	33.19	8.0	24.6	1.08
I15	08 Nov 2023	22	14.93	88.48	7.7	33.19	8.0	24.6	1.07
I15	08 Nov 2023	23	14.94	88.52	7.7	33.19	8.0	24.6	1.12
I15	08 Nov 2023	24	14.92	89.03	7.7	33.19	8.0	24.6	1.12
I15	08 Nov 2023	25	14.90	89.36	7.7	33.20	8.0	24.6	1.20
I15	08 Nov 2023	26	14.88	88.79	7.6	33.20	8.0	24.6	1.18
I15	08 Nov 2023	27	14.87	86.02	7.6	33.20	8.0	24.6	1.05
I15	08 Nov 2023	28	14.88	84.66	7.7	33.20	8.0	24.6	1.13
I15	08 Nov 2023	29	14.88	84.04	7.7	33.20	8.0	24.6	1.03
I15	08 Nov 2023	30	14.86	83.27	7.6	33.20	8.0	24.6	1.08
I15	08 Nov 2023	31	14.85	82.34	7.6	33.20	8.0	24.6	1.17
I16	08 Nov 2023	1	16.93	87.88	8.9	33.18	8.1	24.1	0.61
I16	08 Nov 2023	2	16.96	87.69	8.9	33.18	8.1	24.1	0.57
I16	08 Nov 2023	3	16.91	88.59	8.9	33.18	8.1	24.1	0.59
I16	08 Nov 2023	4	16.84	88.16	8.9	33.18	8.1	24.2	0.68
I16	08 Nov 2023	5	16.81	87.63	8.9	33.18	8.1	24.2	0.80
I16	08 Nov 2023	6	16.78	87.57	9.0	33.18	8.1	24.2	1.10
I16	08 Nov 2023	7	16.77	87.12	9.0	33.18	8.1	24.2	1.39
I16	08 Nov 2023	8	16.72	86.41	9.0	33.17	8.1	24.2	1.63
I16	08 Nov 2023	9	16.66	86.02	8.9	33.17	8.1	24.2	1.87
I16	08 Nov 2023	10	16.56	86.69	8.8	33.17	8.1	24.2	1.75
I16	08 Nov 2023	11	16.44	87.70	8.6	33.15	8.1	24.2	1.50
I16	08 Nov 2023	12	15.98	88.94	8.4	33.12	8.1	24.3	1.16
I16	08 Nov 2023	13	15.93	89.12	8.2	33.15	8.1	24.3	1.12
I16	08 Nov 2023	14	15.85	89.46	8.2	33.16	8.1	24.4	1.25
I16	08 Nov 2023	15	15.69	89.49	8.2	33.15	8.1	24.4	1.26

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I16	08 Nov 2023	16	15.60	89.35	8.0	33.15	8.1	24.4	1.28
I16	08 Nov 2023	17	15.50	89.08	8.0	33.13	8.1	24.4	1.31
I16	08 Nov 2023	18	15.46	88.58	8.0	33.12	8.1	24.4	1.24
I16	08 Nov 2023	19	15.40	87.27	8.0	33.10	8.1	24.4	1.31
I16	08 Nov 2023	20	15.38	86.14	7.9	33.10	8.0	24.4	1.33
I16	08 Nov 2023	21	15.28	85.77	7.8	33.12	8.0	24.5	1.27
I16	08 Nov 2023	22	15.20	86.64	7.8	33.15	8.0	24.5	1.27
I16	08 Nov 2023	23	15.15	87.11	7.8	33.15	8.0	24.5	1.18
I16	08 Nov 2023	24	15.00	87.10	7.8	33.18	8.0	24.6	1.20
I16	08 Nov 2023	25	14.97	85.91	7.7	33.19	8.0	24.6	1.09
I16	08 Nov 2023	26	14.93	84.18	7.6	33.19	8.0	24.6	1.25
I16	08 Nov 2023	27	14.94	74.02	7.7	33.19	8.0	24.6	1.28
I16	08 Nov 2023	28	15.03	65.43	7.6	33.18	8.0	24.6	1.28
I17	08 Nov 2023	1	16.80	85.57	8.9	33.18	8.1	24.2	0.97
I17	08 Nov 2023	2	16.77	85.90	8.9	33.17	8.1	24.2	1.04
I17	08 Nov 2023	3	16.49	85.11	8.7	33.14	8.1	24.2	1.20
I17	08 Nov 2023	4	16.26	86.02	8.6	33.13	8.1	24.3	1.17
I17	08 Nov 2023	5	16.12	86.97	8.4	33.10	8.1	24.3	1.16
I17	08 Nov 2023	6	15.98	87.05	8.2	33.11	8.1	24.3	1.11
I17	08 Nov 2023	7	15.96	87.40	8.2	33.13	8.1	24.3	1.18
I17	08 Nov 2023	8	15.89	88.32	8.2	33.13	8.1	24.3	1.17
I17	08 Nov 2023	9	15.77	88.48	8.1	33.14	8.1	24.4	1.31
I17	08 Nov 2023	10	15.76	88.79	8.1	33.14	8.1	24.4	1.19
I17	08 Nov 2023	11	15.51	88.64	7.9	33.13	8.1	24.4	1.27
I17	08 Nov 2023	12	15.28	88.77	7.8	33.11	8.1	24.5	1.30
I17	08 Nov 2023	13	15.12	88.36	7.8	33.11	8.0	24.5	1.20
I17	08 Nov 2023	14	15.08	88.22	7.8	33.13	8.0	24.5	1.12
I17	08 Nov 2023	15	15.11	87.82	7.8	33.13	8.0	24.5	1.13
I17	08 Nov 2023	16	15.03	87.84	7.8	33.18	8.0	24.6	1.14
I17	08 Nov 2023	17	15.02	89.16	7.8	33.19	8.0	24.6	1.21
I17	08 Nov 2023	18	15.02	88.85	7.8	33.19	8.0	24.6	1.21
I17	08 Nov 2023	19	15.02	88.37	7.8	33.19	8.0	24.6	1.33
I17	08 Nov 2023	20	15.02	87.71	7.8	33.19	8.0	24.6	1.41
I17	08 Nov 2023	21	15.00	86.74	7.7	33.19	8.0	24.6	1.23
I17	08 Nov 2023	22	14.99	84.01	7.7	33.19	8.0	24.6	1.17
I17	08 Nov 2023	23	15.00	83.19	7.7	33.19	8.0	24.6	1.18
I17	08 Nov 2023	24	14.98	82.93	7.6	33.19	8.0	24.6	1.17
I17	08 Nov 2023	25	14.96	80.73	7.6	33.19	8.0	24.6	1.13
I18	08 Nov 2023	1	16.90	76.26	9.0	33.11	8.2	24.1	0.81
I18	08 Nov 2023	2	16.87	81.61	9.2	33.14	8.2	24.1	0.86
I18	08 Nov 2023	3	16.74	84.50	8.9	33.16	8.2	24.2	0.94
I18	08 Nov 2023	4	16.45	85.49	8.6	33.14	8.1	24.2	0.94
I18	08 Nov 2023	5	16.23	86.81	8.5	33.16	8.1	24.3	0.89
I18	08 Nov 2023	6	16.18	88.60	8.5	33.16	8.1	24.3	0.87
I18	08 Nov 2023	7	16.11	89.50	8.5	33.15	8.1	24.3	0.88
I18	08 Nov 2023	8	16.08	89.61	8.5	33.15	8.1	24.3	0.90
I18	08 Nov 2023	9	16.03	89.69	8.4	33.15	8.1	24.3	0.98
I18	08 Nov 2023	10	15.88	89.63	8.2	33.15	8.1	24.4	1.07
I18	08 Nov 2023	11	15.55	89.36	8.1	33.16	8.1	24.4	1.19
I18	08 Nov 2023	12	15.27	89.17	8.0	33.17	8.1	24.5	1.38
I18	08 Nov 2023	13	15.25	87.22	8.0	33.17	8.1	24.5	1.69
I18	08 Nov 2023	14	15.28	84.61	7.9	33.16	8.1	24.5	1.92
I18	08 Nov 2023	15	15.18	83.28	7.8	33.18	8.0	24.5	2.11
I18	08 Nov 2023	16	15.17	78.91	7.8	33.18	8.0	24.5	2.25
I18	08 Nov 2023	17	15.17	77.84	7.8	33.18	8.0	24.5	2.19
I18	08 Nov 2023	18	15.16	78.11	7.8	33.18	8.0	24.5	2.19
I18	08 Nov 2023	19	15.16	78.24	7.8	33.18	8.0	24.5	2.10
I2	07 Nov 2023	1	16.86	88.81	8.5	33.16	8.2	24.1	0.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I2	07 Nov 2023	2	16.84	89.75	8.5	33.16	8.2	24.1	0.62
I2	07 Nov 2023	3	16.76	89.82	8.5	33.16	8.2	24.2	0.66
I2	07 Nov 2023	4	16.72	89.92	8.5	33.16	8.2	24.2	0.71
I2	07 Nov 2023	5	16.68	89.51	8.6	33.16	8.2	24.2	0.80
I2	07 Nov 2023	6	16.68	89.52	8.6	33.16	8.2	24.2	0.89
I2	07 Nov 2023	7	16.60	89.12	8.6	33.16	8.2	24.2	0.95
I2	07 Nov 2023	8	16.53	89.09	8.6	33.16	8.2	24.2	1.03
I2	07 Nov 2023	9	16.47	89.21	8.7	33.16	8.2	24.2	1.08
I2	07 Nov 2023	10	16.38	89.23	8.7	33.16	8.2	24.2	1.16
I2	07 Nov 2023	11	16.34	89.27	8.6	33.16	8.2	24.3	1.16
I2	07 Nov 2023	12	16.29	89.32	8.6	33.16	8.2	24.3	1.23
I2	07 Nov 2023	13	16.27	89.51	8.6	33.16	8.2	24.3	1.21
I2	07 Nov 2023	14	16.24	89.64	8.6	33.16	8.2	24.3	1.21
I2	07 Nov 2023	15	16.14	89.67	8.5	33.17	8.2	24.3	1.15
I2	07 Nov 2023	16	15.93	89.79	8.3	33.17	8.1	24.4	1.32
I2	07 Nov 2023	17	15.83	89.78	8.3	33.17	8.1	24.4	1.38
I2	07 Nov 2023	18	15.62	89.66	8.2	33.18	8.1	24.4	1.35
I2	07 Nov 2023	19	15.48	89.73	8.1	33.19	8.1	24.5	1.46
I2	07 Nov 2023	20	15.40	89.75	8.1	33.20	8.1	24.5	1.55
I2	07 Nov 2023	21	15.31	89.54	7.9	33.19	8.1	24.5	1.63
I2	07 Nov 2023	22	15.11	89.24	7.7	33.20	8.1	24.6	1.77
I2	07 Nov 2023	23	15.04	89.38	7.7	33.20	8.1	24.6	1.77
I2	07 Nov 2023	24	14.93	89.54	7.6	33.20	8.1	24.6	1.75
I2	07 Nov 2023	25	14.80	89.90	7.5	33.21	8.1	24.6	1.57
I2	07 Nov 2023	26	14.67	90.50	7.5	33.21	8.1	24.7	1.45
I2	07 Nov 2023	27	14.62	90.74	7.4	33.21	8.1	24.7	1.48
I2	07 Nov 2023	28	14.43	90.84	7.3	33.20	8.0	24.7	1.25
I2	07 Nov 2023	29	14.40	91.02	7.4	33.20	8.0	24.7	1.16
I2	07 Nov 2023	30	14.39	91.06	7.3	33.20	8.0	24.7	1.14
I2	07 Nov 2023	31	14.39	91.06	7.4	33.20	8.0	24.7	1.17
I2	07 Nov 2023	32	14.39	90.86	7.4	33.20	8.0	24.7	1.15
I20	08 Nov 2023	1	16.77	89.86	8.7	33.17	8.1	24.2	0.65
I20	08 Nov 2023	2	16.77	89.45	8.7	33.17	8.1	24.2	0.63
I20	08 Nov 2023	3	16.76	89.64	8.7	33.17	8.1	24.2	0.63
I20	08 Nov 2023	4	16.76	89.85	8.7	33.17	8.1	24.2	0.66
I20	08 Nov 2023	5	16.75	89.78	8.7	33.17	8.1	24.2	0.73
I20	08 Nov 2023	6	16.74	89.82	8.7	33.17	8.1	24.2	0.79
I20	08 Nov 2023	7	16.71	89.70	8.6	33.17	8.1	24.2	0.90
I20	08 Nov 2023	8	16.67	89.69	8.5	33.17	8.1	24.2	0.92
I20	08 Nov 2023	9	16.36	89.61	8.4	33.15	8.1	24.2	0.90
I20	08 Nov 2023	10	16.05	89.85	8.3	33.16	8.1	24.3	0.90
I20	08 Nov 2023	11	15.75	89.53	8.3	33.16	8.1	24.4	0.93
I20	08 Nov 2023	12	15.62	89.90	8.3	33.16	8.1	24.4	0.95
I20	08 Nov 2023	13	15.62	89.93	8.3	33.15	8.1	24.4	0.99
I20	08 Nov 2023	14	15.58	90.01	8.3	33.16	8.1	24.4	1.06
I20	08 Nov 2023	15	15.56	89.94	8.2	33.16	8.1	24.4	0.96
I20	08 Nov 2023	16	15.53	90.11	8.1	33.17	8.1	24.4	1.01
I20	08 Nov 2023	17	15.50	89.87	8.1	33.18	8.1	24.5	0.91
I20	08 Nov 2023	18	15.43	90.38	8.0	33.19	8.1	24.5	1.01
I20	08 Nov 2023	19	15.39	90.37	8.0	33.19	8.0	24.5	1.00
I20	08 Nov 2023	20	15.26	90.43	8.1	33.17	8.0	24.5	1.09
I20	08 Nov 2023	21	15.20	90.23	8.1	33.17	8.0	24.5	1.22
I20	08 Nov 2023	22	15.12	90.21	8.0	33.16	8.0	24.5	1.23
I20	08 Nov 2023	23	15.08	90.32	7.8	33.18	8.0	24.6	1.24
I20	08 Nov 2023	24	15.06	90.55	7.7	33.20	8.0	24.6	1.18
I20	08 Nov 2023	25	14.97	90.56	7.7	33.20	8.0	24.6	1.26
I20	08 Nov 2023	26	14.97	90.58	7.6	33.20	8.0	24.6	1.29
I20	08 Nov 2023	27	14.86	90.55	7.5	33.20	8.0	24.6	1.39
I20	08 Nov 2023	28	14.79	90.65	7.5	33.21	8.0	24.6	1.32
I20	08 Nov 2023	29	14.76	90.99	7.5	33.21	8.0	24.6	1.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I20	08 Nov 2023	30	14.75	91.29	7.5	33.21	8.0	24.6	1.06
I20	08 Nov 2023	31	14.74	91.38	7.5	33.21	8.0	24.6	0.96
I20	08 Nov 2023	32	14.73	91.51	7.5	33.21	8.0	24.6	1.05
I20	08 Nov 2023	33	14.72	91.53	7.5	33.21	8.0	24.7	0.99
I20	08 Nov 2023	34	14.65	91.53	7.4	33.21	8.0	24.7	0.96
I20	08 Nov 2023	35	14.64	91.92	7.4	33.21	8.0	24.7	0.91
I20	08 Nov 2023	36	14.62	92.07	7.3	33.21	8.0	24.7	0.82
I20	08 Nov 2023	37	14.58	91.91	7.3	33.22	8.0	24.7	0.89
I20	08 Nov 2023	38	14.55	91.91	7.3	33.22	8.0	24.7	0.89
I20	08 Nov 2023	39	14.55	91.91	7.3	33.22	8.0	24.7	0.85
I20	08 Nov 2023	40	14.52	91.95	7.3	33.22	8.0	24.7	0.91
I20	08 Nov 2023	41	14.49	91.97	7.3	33.22	8.0	24.7	0.86
I20	08 Nov 2023	42	14.46	91.92	7.2	33.22	8.0	24.7	0.82
I20	08 Nov 2023	43	14.39	91.95	7.2	33.22	8.0	24.7	0.76
I20	08 Nov 2023	44	14.34	92.03	7.1	33.22	8.0	24.7	0.71
I20	08 Nov 2023	45	14.33	92.05	7.1	33.22	8.0	24.7	0.72
I20	08 Nov 2023	46	14.28	92.13	7.0	33.22	8.0	24.8	0.72
I20	08 Nov 2023	47	14.22	92.10	6.9	33.23	8.0	24.8	0.65
I20	08 Nov 2023	48	14.15	92.03	6.9	33.23	8.0	24.8	0.64
I20	08 Nov 2023	49	14.12	91.80	6.8	33.23	7.9	24.8	0.65
I20	08 Nov 2023	50	14.11	91.51	6.8	33.23	7.9	24.8	0.68
I20	08 Nov 2023	51	14.09	91.35	6.8	33.24	7.9	24.8	0.66
I20	08 Nov 2023	52	14.08	91.29	6.8	33.24	7.9	24.8	0.66
I20	08 Nov 2023	53	14.05	91.27	6.7	33.24	7.9	24.8	0.66
I20	08 Nov 2023	54	13.91	91.10	6.5	33.24	7.9	24.8	0.62
I20	08 Nov 2023	55	13.72	91.12	6.3	33.26	7.9	24.9	0.56
I21	08 Nov 2023	1	16.65	87.66	8.8	33.18	8.1	24.2	0.56
I21	08 Nov 2023	2	16.65	89.27	8.8	33.18	8.1	24.2	0.57
I21	08 Nov 2023	3	16.64	89.61	8.8	33.18	8.1	24.2	0.61
I21	08 Nov 2023	4	16.63	89.55	8.8	33.18	8.1	24.2	0.70
I21	08 Nov 2023	5	16.61	89.56	8.8	33.18	8.1	24.2	0.78
I21	08 Nov 2023	6	16.59	89.42	8.8	33.18	8.1	24.2	0.85
I21	08 Nov 2023	7	16.56	89.23	8.8	33.18	8.1	24.2	0.89
I21	08 Nov 2023	8	16.54	89.29	8.7	33.17	8.1	24.2	0.99
I21	08 Nov 2023	9	16.47	89.15	8.7	33.17	8.1	24.2	0.92
I21	08 Nov 2023	10	16.38	89.31	8.6	33.16	8.1	24.2	0.92
I21	08 Nov 2023	11	16.09	89.58	8.4	33.13	8.1	24.3	0.80
I21	08 Nov 2023	12	15.85	90.11	8.4	33.16	8.1	24.4	0.76
I21	08 Nov 2023	13	15.82	90.43	8.5	33.16	8.1	24.4	0.77
I21	08 Nov 2023	14	15.80	90.58	8.4	33.16	8.1	24.4	0.81
I21	08 Nov 2023	15	15.75	90.68	8.4	33.16	8.1	24.4	0.82
I21	08 Nov 2023	16	15.66	90.76	8.4	33.16	8.1	24.4	0.87
I21	08 Nov 2023	17	15.57	90.79	8.4	33.16	8.1	24.4	0.92
I21	08 Nov 2023	18	15.50	90.81	8.2	33.15	8.1	24.4	1.02
I21	08 Nov 2023	19	15.30	90.71	8.1	33.18	8.1	24.5	1.20
I21	08 Nov 2023	20	15.25	90.43	8.1	33.18	8.1	24.5	1.32
I21	08 Nov 2023	21	15.14	90.26	8.0	33.18	8.0	24.5	1.35
I21	08 Nov 2023	22	15.05	90.29	7.9	33.19	8.0	24.6	1.33
I21	08 Nov 2023	23	15.04	90.09	7.8	33.19	8.0	24.6	1.45
I21	08 Nov 2023	24	14.94	90.31	7.7	33.19	8.0	24.6	1.40
I21	08 Nov 2023	25	14.77	90.21	7.5	33.20	8.0	24.6	1.47
I21	08 Nov 2023	26	14.61	90.18	7.3	33.20	8.0	24.7	1.59
I21	08 Nov 2023	27	14.50	89.95	7.2	33.21	8.0	24.7	1.37
I21	08 Nov 2023	28	14.50	89.78	7.2	33.21	8.0	24.7	1.14
I21	08 Nov 2023	29	14.49	90.16	7.2	33.21	8.0	24.7	1.13
I21	08 Nov 2023	30	14.49	90.40	7.2	33.21	8.0	24.7	0.96
I21	08 Nov 2023	31	14.47	90.53	7.2	33.21	8.0	24.7	0.84
I21	08 Nov 2023	32	14.45	90.98	7.2	33.22	8.0	24.7	0.85
I21	08 Nov 2023	33	14.40	91.03	7.1	33.21	8.0	24.7	0.79
I21	08 Nov 2023	34	14.38	90.96	7.1	33.22	8.0	24.7	0.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I21	08 Nov 2023	35	14.35	90.92	7.0	33.22	8.0	24.7	0.83
I21	08 Nov 2023	36	14.20	90.82	6.9	33.23	8.0	24.8	0.67
I21	08 Nov 2023	37	14.18	90.64	6.9	33.23	8.0	24.8	0.64
I21	08 Nov 2023	38	14.17	89.92	6.8	33.23	8.0	24.8	0.67
I21	08 Nov 2023	39	14.16	88.96	6.8	33.23	8.0	24.8	0.68
I21	08 Nov 2023	40	14.16	87.83	6.8	33.23	8.0	24.8	0.70
I21	08 Nov 2023	41	14.16	86.71	6.8	33.23	7.9	24.8	0.72
I22	08 Nov 2023	1	16.74	87.74	8.9	33.18	8.1	24.2	0.72
I22	08 Nov 2023	2	16.73	88.25	9.0	33.18	8.1	24.2	0.71
I22	08 Nov 2023	3	16.72	87.99	9.0	33.18	8.1	24.2	0.84
I22	08 Nov 2023	4	16.70	87.27	9.0	33.18	8.1	24.2	1.12
I22	08 Nov 2023	5	16.67	87.17	8.9	33.17	8.1	24.2	1.28
I22	08 Nov 2023	6	16.56	86.90	8.8	33.16	8.1	24.2	1.54
I22	08 Nov 2023	7	16.43	86.59	8.8	33.16	8.1	24.2	1.94
I22	08 Nov 2023	8	16.37	86.37	8.7	33.16	8.1	24.2	1.99
I22	08 Nov 2023	9	16.31	86.39	8.7	33.17	8.1	24.3	1.73
I22	08 Nov 2023	10	16.25	86.87	8.7	33.17	8.1	24.3	1.61
I22	08 Nov 2023	11	16.20	87.61	8.7	33.17	8.1	24.3	1.63
I22	08 Nov 2023	12	16.14	87.88	8.6	33.17	8.1	24.3	1.65
I22	08 Nov 2023	13	16.05	87.98	8.4	33.15	8.1	24.3	1.51
I22	08 Nov 2023	14	15.89	88.31	8.2	33.13	8.1	24.3	1.47
I22	08 Nov 2023	15	15.65	88.64	8.1	33.11	8.1	24.4	1.08
I22	08 Nov 2023	16	15.43	89.47	8.1	33.14	8.1	24.4	0.93
I22	08 Nov 2023	17	15.27	89.69	7.9	33.16	8.1	24.5	0.91
I22	08 Nov 2023	18	14.96	90.23	7.8	33.18	8.0	24.6	0.93
I22	08 Nov 2023	19	14.88	90.71	7.8	33.18	8.0	24.6	1.02
I22	08 Nov 2023	20	14.87	91.00	7.8	33.18	8.0	24.6	1.15
I22	08 Nov 2023	21	14.87	91.17	7.8	33.19	8.0	24.6	1.09
I22	08 Nov 2023	22	14.86	91.17	7.7	33.19	8.0	24.6	1.05
I22	08 Nov 2023	23	14.87	90.14	7.7	33.19	8.0	24.6	0.98
I22	08 Nov 2023	24	14.87	89.20	7.7	33.19	8.0	24.6	1.01
I22	08 Nov 2023	25	14.87	89.49	7.7	33.19	8.0	24.6	1.02
I22	08 Nov 2023	26	14.87	89.07	7.7	33.19	8.0	24.6	0.94
I22	08 Nov 2023	27	14.86	87.38	7.6	33.20	8.0	24.6	1.06
I22	08 Nov 2023	28	14.85	83.94	7.5	33.20	8.0	24.6	1.13
I23	08 Nov 2023	1	16.81	88.02	9.2	33.17	8.2	24.2	0.66
I23	08 Nov 2023	2	16.80	88.03	9.2	33.17	8.2	24.2	0.62
I23	08 Nov 2023	3	16.77	87.85	9.2	33.17	8.2	24.2	0.65
I23	08 Nov 2023	4	16.72	87.66	9.1	33.17	8.2	24.2	0.77
I23	08 Nov 2023	5	16.60	87.41	8.9	33.17	8.1	24.2	1.02
I23	08 Nov 2023	6	16.47	87.11	8.8	33.17	8.1	24.2	1.68
I23	08 Nov 2023	7	16.39	86.56	8.6	33.16	8.1	24.2	1.96
I23	08 Nov 2023	8	16.17	86.47	8.4	33.15	8.1	24.3	1.83
I23	08 Nov 2023	9	15.94	86.88	8.3	33.16	8.1	24.4	1.62
I23	08 Nov 2023	10	15.80	87.61	8.3	33.17	8.1	24.4	1.33
I23	08 Nov 2023	11	15.74	88.10	8.2	33.17	8.1	24.4	1.24
I23	08 Nov 2023	12	15.68	88.69	8.2	33.17	8.1	24.4	1.17
I23	08 Nov 2023	13	15.48	88.86	8.1	33.16	8.1	24.5	1.21
I23	08 Nov 2023	14	15.29	88.86	8.0	33.17	8.1	24.5	1.66
I23	08 Nov 2023	15	15.24	87.64	7.8	33.18	8.1	24.5	2.34
I23	08 Nov 2023	16	15.20	81.58	7.6	33.18	8.0	24.5	2.90
I23	08 Nov 2023	17	15.19	75.76	7.6	33.18	8.0	24.5	2.87
I23	08 Nov 2023	18	15.19	73.73	7.6	33.18	8.0	24.5	2.70
I23	08 Nov 2023	19	15.19	71.40	7.6	33.18	8.0	24.5	2.52
I23	08 Nov 2023	20	15.19	71.92	7.6	33.18	8.0	24.5	2.39
I23	08 Nov 2023	21	15.17	70.99	7.4	33.18	8.0	24.5	2.17
I27	08 Nov 2023	1	16.71	86.01	8.9	33.18	8.1	24.2	0.64
I27	08 Nov 2023	2	16.70	87.32	8.9	33.19	8.1	24.2	0.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I27	08 Nov 2023	3	16.69	87.53	8.9	33.19	8.1	24.2	0.66
I27	08 Nov 2023	4	16.67	88.12	8.9	33.19	8.1	24.2	0.74
I27	08 Nov 2023	5	16.66	88.06	8.9	33.18	8.1	24.2	0.94
I27	08 Nov 2023	6	16.66	88.04	8.9	33.18	8.1	24.2	1.02
I27	08 Nov 2023	7	16.64	87.97	8.9	33.18	8.1	24.2	1.19
I27	08 Nov 2023	8	16.60	87.98	8.8	33.18	8.1	24.2	1.23
I27	08 Nov 2023	9	16.46	88.17	8.7	33.17	8.1	24.2	1.17
I27	08 Nov 2023	10	16.13	88.59	8.5	33.17	8.1	24.3	0.94
I27	08 Nov 2023	11	15.99	89.24	8.5	33.17	8.1	24.3	0.92
I27	08 Nov 2023	12	15.94	89.33	8.4	33.18	8.1	24.4	0.92
I27	08 Nov 2023	13	15.91	89.32	8.4	33.18	8.1	24.4	0.96
I27	08 Nov 2023	14	15.87	89.27	8.4	33.17	8.1	24.4	0.92
I27	08 Nov 2023	15	15.77	89.44	8.4	33.17	8.1	24.4	0.89
I27	08 Nov 2023	16	15.60	89.72	8.2	33.17	8.1	24.4	0.84
I27	08 Nov 2023	17	15.44	89.96	8.2	33.18	8.1	24.5	0.92
I27	08 Nov 2023	18	15.40	90.12	8.1	33.17	8.1	24.5	0.95
I27	08 Nov 2023	19	15.30	90.26	7.9	33.17	8.1	24.5	0.97
I27	08 Nov 2023	20	14.97	90.18	7.7	33.18	8.0	24.6	0.98
I27	08 Nov 2023	21	14.85	90.02	7.7	33.19	8.0	24.6	1.07
I27	08 Nov 2023	22	14.90	88.51	7.7	33.19	8.0	24.6	1.02
I27	08 Nov 2023	23	14.86	88.53	7.6	33.19	8.0	24.6	1.12
I27	08 Nov 2023	24	14.84	86.23	7.6	33.19	8.0	24.6	1.03
I27	08 Nov 2023	25	14.84	84.74	7.6	33.19	8.0	24.6	1.05
I27	08 Nov 2023	26	14.84	82.92	7.5	33.20	8.0	24.6	1.03
I27	08 Nov 2023	27	14.83	80.43	7.5	33.20	8.0	24.6	1.05
I27	08 Nov 2023	28	14.82	79.55	7.4	33.20	8.0	24.6	1.12
I28	09 Nov 2023	1	16.50	89.13	8.6	33.17	8.1	24.2	0.52
I28	09 Nov 2023	2	16.50	88.73	8.6	33.17	8.1	24.2	0.59
I28	09 Nov 2023	3	16.49	89.85	8.6	33.17	8.1	24.2	0.59
I28	09 Nov 2023	4	16.48	89.78	8.6	33.17	8.1	24.2	0.62
I28	09 Nov 2023	5	16.44	89.66	8.5	33.17	8.1	24.2	0.64
I28	09 Nov 2023	6	16.42	89.81	8.5	33.17	8.1	24.2	0.67
I28	09 Nov 2023	7	16.36	89.74	8.6	33.17	8.1	24.3	0.71
I28	09 Nov 2023	8	16.31	89.88	8.5	33.17	8.1	24.3	0.75
I28	09 Nov 2023	9	16.30	89.53	8.5	33.17	8.1	24.3	0.70
I28	09 Nov 2023	10	16.26	89.77	8.5	33.18	8.1	24.3	0.76
I28	09 Nov 2023	11	16.26	89.90	8.5	33.18	8.1	24.3	0.77
I28	09 Nov 2023	12	16.21	89.78	8.4	33.17	8.1	24.3	0.85
I28	09 Nov 2023	13	15.95	89.78	8.2	33.18	8.1	24.4	0.82
I28	09 Nov 2023	14	15.44	89.72	8.2	33.19	8.1	24.5	1.08
I28	09 Nov 2023	15	15.38	89.70	8.2	33.18	8.1	24.5	1.45
I28	09 Nov 2023	16	15.38	89.58	8.2	33.18	8.1	24.5	1.55
I28	09 Nov 2023	17	15.36	89.57	8.2	33.18	8.1	24.5	1.49
I28	09 Nov 2023	18	15.34	89.70	8.2	33.18	8.1	24.5	1.45
I28	09 Nov 2023	19	15.31	89.82	8.1	33.18	8.1	24.5	1.51
I28	09 Nov 2023	20	15.26	90.07	8.0	33.18	8.1	24.5	1.45
I28	09 Nov 2023	21	15.09	90.12	7.9	33.19	8.1	24.6	1.61
I28	09 Nov 2023	22	14.92	90.04	7.8	33.19	8.0	24.6	1.63
I28	09 Nov 2023	23	14.86	89.70	7.8	33.18	8.0	24.6	1.88
I28	09 Nov 2023	24	14.68	89.15	7.8	33.18	8.0	24.6	1.85
I28	09 Nov 2023	25	14.53	89.41	7.7	33.17	8.0	24.7	1.81
I28	09 Nov 2023	26	14.38	89.72	7.6	33.18	8.0	24.7	1.70
I28	09 Nov 2023	27	14.32	90.06	7.6	33.18	8.0	24.7	1.64
I28	09 Nov 2023	28	14.31	90.61	7.5	33.19	8.0	24.7	1.50
I28	09 Nov 2023	29	14.31	90.78	7.5	33.20	8.0	24.7	1.36
I28	09 Nov 2023	30	14.31	91.14	7.4	33.20	8.0	24.7	1.37
I28	09 Nov 2023	31	14.32	91.23	7.4	33.21	8.0	24.7	1.35
I28	09 Nov 2023	32	14.32	91.28	7.3	33.21	8.0	24.7	1.30
I28	09 Nov 2023	33	14.31	91.29	7.3	33.21	8.0	24.7	1.25
I28	09 Nov 2023	34	14.31	91.38	7.3	33.22	8.0	24.7	1.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I28	09 Nov 2023	35	14.29	91.36	7.2	33.22	8.0	24.7	1.13
I28	09 Nov 2023	36	14.29	91.43	7.2	33.22	8.0	24.8	1.08
I28	09 Nov 2023	37	14.28	91.52	7.2	33.22	8.0	24.8	1.07
I28	09 Nov 2023	38	14.24	91.54	7.1	33.23	8.0	24.8	1.04
I28	09 Nov 2023	39	14.20	91.54	7.0	33.24	8.0	24.8	1.03
I28	09 Nov 2023	40	14.16	91.81	7.0	33.24	8.0	24.8	0.94
I28	09 Nov 2023	41	14.14	91.83	6.9	33.24	8.0	24.8	0.88
I28	09 Nov 2023	42	14.08	91.85	6.9	33.25	8.0	24.8	0.91
I28	09 Nov 2023	43	14.05	92.02	6.8	33.25	8.0	24.8	0.87
I28	09 Nov 2023	44	14.00	92.00	6.8	33.25	8.0	24.8	0.83
I28	09 Nov 2023	45	13.93	92.01	6.7	33.26	8.0	24.9	0.80
I28	09 Nov 2023	46	13.92	92.02	6.7	33.26	8.0	24.9	0.79
I28	09 Nov 2023	47	13.90	92.01	6.6	33.26	8.0	24.9	0.76
I28	09 Nov 2023	48	13.87	91.87	6.6	33.27	8.0	24.9	0.72
I28	09 Nov 2023	49	13.85	91.89	6.6	33.27	7.9	24.9	0.74
I28	09 Nov 2023	50	13.84	91.90	6.6	33.27	7.9	24.9	0.72
I28	09 Nov 2023	51	13.81	91.80	6.5	33.27	7.9	24.9	0.69
I28	09 Nov 2023	52	13.76	91.51	6.5	33.28	7.9	24.9	0.69
I28	09 Nov 2023	53	13.72	91.34	6.4	33.29	7.9	24.9	0.66
I28	09 Nov 2023	54	13.69	90.68	6.3	33.29	7.9	24.9	0.62
I28	09 Nov 2023	55	13.66	89.81	6.2	33.29	7.9	24.9	0.59
I29	09 Nov 2023	1	16.29	87.76	8.8	33.19	8.1	24.3	0.53
I29	09 Nov 2023	2	16.29	87.69	8.8	33.19	8.1	24.3	0.54
I29	09 Nov 2023	3	16.29	87.72	8.8	33.19	8.1	24.3	0.53
I29	09 Nov 2023	4	16.27	87.80	8.8	33.19	8.1	24.3	0.60
I29	09 Nov 2023	5	16.25	87.67	8.8	33.19	8.1	24.3	0.68
I29	09 Nov 2023	6	16.16	87.59	8.6	33.18	8.1	24.3	0.81
I29	09 Nov 2023	7	16.04	87.59	8.5	33.18	8.1	24.3	0.89
I29	09 Nov 2023	8	15.98	87.51	8.4	33.17	8.1	24.3	0.91
I29	09 Nov 2023	9	15.93	88.09	8.4	33.17	8.1	24.4	0.91
I29	09 Nov 2023	10	15.89	88.51	8.4	33.17	8.1	24.4	1.03
I29	09 Nov 2023	11	15.79	88.70	8.4	33.17	8.1	24.4	0.97
I29	09 Nov 2023	12	15.76	89.02	8.3	33.17	8.1	24.4	1.07
I29	09 Nov 2023	13	15.65	89.27	8.3	33.16	8.1	24.4	0.93
I29	09 Nov 2023	14	15.44	89.43	8.2	33.15	8.1	24.5	0.88
I29	09 Nov 2023	15	15.32	89.76	8.2	33.16	8.1	24.5	0.93
I29	09 Nov 2023	16	15.30	90.08	8.2	33.17	8.1	24.5	0.94
I29	09 Nov 2023	17	15.31	90.29	8.2	33.17	8.1	24.5	1.03
I29	09 Nov 2023	18	15.31	90.46	8.2	33.17	8.1	24.5	1.10
I29	09 Nov 2023	19	15.30	90.49	8.2	33.18	8.1	24.5	1.14
I29	09 Nov 2023	20	15.30	90.48	8.2	33.18	8.1	24.5	1.07
I29	09 Nov 2023	21	15.29	90.53	8.1	33.18	8.1	24.5	1.09
I29	09 Nov 2023	22	15.25	90.47	8.0	33.18	8.1	24.5	1.16
I29	09 Nov 2023	23	15.13	90.46	7.9	33.19	8.1	24.5	1.31
I29	09 Nov 2023	24	15.01	90.33	7.8	33.19	8.0	24.6	1.53
I29	09 Nov 2023	25	14.94	90.04	7.7	33.19	8.0	24.6	1.74
I29	09 Nov 2023	26	14.89	89.80	7.8	33.19	8.0	24.6	1.83
I29	09 Nov 2023	27	14.84	89.54	7.8	33.20	8.0	24.6	1.83
I29	09 Nov 2023	28	14.78	89.59	7.7	33.20	8.0	24.6	1.83
I29	09 Nov 2023	29	14.71	89.69	7.6	33.20	8.0	24.6	1.63
I29	09 Nov 2023	30	14.59	90.00	7.4	33.20	8.0	24.7	1.43
I29	09 Nov 2023	31	14.53	90.44	7.4	33.21	8.0	24.7	1.24
I29	09 Nov 2023	32	14.49	90.85	7.3	33.21	8.0	24.7	1.18
I29	09 Nov 2023	33	14.27	91.12	7.1	33.22	8.0	24.8	1.01
I29	09 Nov 2023	34	14.20	90.41	7.0	33.23	8.0	24.8	0.90
I29	09 Nov 2023	35	14.13	89.47	6.9	33.23	8.0	24.8	0.84
I29	09 Nov 2023	36	14.11	88.28	6.9	33.23	8.0	24.8	0.83
I29	09 Nov 2023	37	14.10	87.28	6.8	33.23	8.0	24.8	0.78
I29	09 Nov 2023	38	14.12	86.00	6.8	33.23	8.0	24.8	0.77

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I3	07 Nov 2023	1	16.90	89.70	8.5	33.12	8.2	24.1	0.53
I3	07 Nov 2023	2	16.87	89.82	8.5	33.16	8.2	24.1	0.54
I3	07 Nov 2023	3	16.73	89.91	8.5	33.16	8.2	24.2	0.55
I3	07 Nov 2023	4	16.54	89.94	8.7	33.16	8.2	24.2	0.57
I3	07 Nov 2023	5	16.53	89.69	8.7	33.16	8.2	24.2	0.60
I3	07 Nov 2023	6	16.50	89.85	8.7	33.16	8.2	24.2	0.69
I3	07 Nov 2023	7	16.47	89.60	8.7	33.16	8.2	24.2	0.76
I3	07 Nov 2023	8	16.44	89.42	8.7	33.17	8.2	24.2	0.83
I3	07 Nov 2023	9	16.42	89.37	8.7	33.17	8.2	24.2	0.83
I3	07 Nov 2023	10	16.40	89.21	8.6	33.17	8.2	24.2	0.87
I3	07 Nov 2023	11	16.36	89.05	8.6	33.17	8.2	24.3	0.86
I3	07 Nov 2023	12	16.35	89.23	8.6	33.17	8.2	24.3	0.95
I3	07 Nov 2023	13	16.25	89.20	8.6	33.17	8.2	24.3	1.15
I3	07 Nov 2023	14	16.20	88.99	8.5	33.17	8.1	24.3	1.39
I3	07 Nov 2023	15	15.99	88.80	8.5	33.17	8.1	24.3	1.59
I3	07 Nov 2023	16	15.84	88.48	8.3	33.17	8.1	24.4	2.03
I3	07 Nov 2023	17	15.75	87.83	8.2	33.17	8.1	24.4	2.37
I3	07 Nov 2023	18	15.69	87.83	8.2	33.17	8.1	24.4	2.43
I3	07 Nov 2023	19	15.59	88.31	8.1	33.17	8.1	24.4	2.39
I3	07 Nov 2023	20	15.49	88.74	7.9	33.18	8.1	24.5	2.18
I3	07 Nov 2023	21	15.06	89.10	7.7	33.17	8.1	24.5	1.82
I3	07 Nov 2023	22	14.81	89.55	7.7	33.18	8.1	24.6	1.59
I3	07 Nov 2023	23	14.80	90.02	7.7	33.18	8.1	24.6	1.60
I3	07 Nov 2023	24	14.80	90.02	7.7	33.18	8.1	24.6	1.54
I3	07 Nov 2023	25	14.80	89.92	7.7	33.18	8.1	24.6	1.39
I3	07 Nov 2023	26	14.79	90.03	7.7	33.18	8.1	24.6	1.34
I3	07 Nov 2023	27	14.80	89.95	7.7	33.18	8.1	24.6	1.35
I30	09 Nov 2023	1	16.37	87.08	9.4	33.19	8.2	24.3	0.48
I30	09 Nov 2023	2	16.37	86.65	9.4	33.19	8.2	24.3	0.48
I30	09 Nov 2023	3	16.36	86.88	9.4	33.19	8.2	24.3	0.51
I30	09 Nov 2023	4	16.35	86.99	9.4	33.19	8.2	24.3	0.53
I30	09 Nov 2023	5	16.33	86.99	9.4	33.19	8.2	24.3	0.65
I30	09 Nov 2023	6	16.27	86.69	9.2	33.19	8.2	24.3	0.75
I30	09 Nov 2023	7	15.96	86.52	8.5	33.19	8.1	24.4	0.93
I30	09 Nov 2023	8	15.35	86.38	7.8	33.19	8.1	24.5	1.19
I30	09 Nov 2023	9	15.12	86.04	7.4	33.19	8.0	24.6	1.37
I30	09 Nov 2023	10	15.07	85.19	7.5	33.19	8.0	24.6	1.37
I30	09 Nov 2023	11	15.04	84.98	7.6	33.19	8.0	24.6	1.53
I30	09 Nov 2023	12	14.97	85.17	7.5	33.18	8.0	24.6	1.95
I30	09 Nov 2023	13	14.90	84.37	7.4	33.19	8.0	24.6	2.09
I30	09 Nov 2023	14	14.88	82.38	7.3	33.19	8.0	24.6	2.14
I30	09 Nov 2023	15	14.88	81.03	7.2	33.19	8.0	24.6	1.91
I30	09 Nov 2023	16	14.85	80.46	7.2	33.19	8.0	24.6	1.80
I30	09 Nov 2023	17	14.82	80.80	7.2	33.19	8.0	24.6	1.60
I30	09 Nov 2023	18	14.77	81.47	7.2	33.20	8.0	24.6	1.38
I30	09 Nov 2023	19	14.77	80.84	7.2	33.20	8.0	24.6	1.35
I30	09 Nov 2023	20	14.75	79.28	7.1	33.20	8.0	24.6	1.23
I30	09 Nov 2023	21	14.75	78.06	7.1	33.20	8.0	24.6	1.26
I30	09 Nov 2023	22	14.73	76.03	7.1	33.20	8.0	24.6	1.28
I30	09 Nov 2023	23	14.72	74.64	7.1	33.20	8.0	24.6	1.12
I30	09 Nov 2023	24	14.72	72.44	7.1	33.20	8.0	24.6	1.15
I30	09 Nov 2023	25	14.72	71.00	7.1	33.20	8.0	24.6	1.16
I30	09 Nov 2023	26	14.72	71.07	7.1	33.20	8.0	24.6	1.17
I30	09 Nov 2023	27	14.74	67.28	7.0	33.20	8.0	24.6	1.12
I30	09 Nov 2023	28	14.74	58.21	7.0	33.20	8.0	24.6	1.11
I31	09 Nov 2023	1	16.49	86.10	9.4	33.19	8.2	24.2	0.63
I31	09 Nov 2023	2	16.46	86.04	9.4	33.19	8.2	24.3	0.68
I31	09 Nov 2023	3	16.43	85.56	9.4	33.19	8.2	24.3	0.80
I31	09 Nov 2023	4	16.41	85.16	9.4	33.19	8.2	24.3	0.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I31	09 Nov 2023	5	16.39	84.89	9.4	33.19	8.2	24.3	1.13
I31	09 Nov 2023	6	16.35	84.69	9.3	33.19	8.2	24.3	1.44
I31	09 Nov 2023	7	16.32	84.80	9.3	33.19	8.2	24.3	1.82
I31	09 Nov 2023	8	16.18	84.50	9.0	33.19	8.2	24.3	2.59
I31	09 Nov 2023	9	15.95	83.25	8.4	33.18	8.1	24.4	3.53
I31	09 Nov 2023	10	15.76	82.37	8.0	33.18	8.1	24.4	3.58
I31	09 Nov 2023	11	15.70	82.19	7.9	33.19	8.1	24.4	3.68
I31	09 Nov 2023	12	15.69	82.26	7.8	33.19	8.0	24.4	3.28
I31	09 Nov 2023	13	15.69	82.37	7.7	33.19	8.0	24.4	3.01
I31	09 Nov 2023	14	15.68	82.53	7.6	33.19	8.0	24.4	2.89
I31	09 Nov 2023	15	15.52	82.56	7.2	33.19	8.0	24.5	2.57
I31	09 Nov 2023	16	15.31	81.95	7.1	33.19	8.0	24.5	2.16
I31	09 Nov 2023	17	15.21	79.70	7.1	33.19	8.0	24.5	1.88
I31	09 Nov 2023	18	15.14	77.15	7.0	33.18	8.0	24.5	1.71
I31	09 Nov 2023	19	15.11	72.63	7.0	33.19	8.0	24.5	1.57
I33	09 Nov 2023	1	16.10	89.94	8.5	33.17	8.1	24.3	0.57
I33	09 Nov 2023	2	16.09	90.08	8.5	33.17	8.1	24.3	0.57
I33	09 Nov 2023	3	16.09	89.99	8.5	33.17	8.1	24.3	0.59
I33	09 Nov 2023	4	16.07	90.04	8.5	33.17	8.1	24.3	0.64
I33	09 Nov 2023	5	16.06	89.90	8.5	33.17	8.1	24.3	0.70
I33	09 Nov 2023	6	16.07	89.84	8.5	33.17	8.1	24.3	0.72
I33	09 Nov 2023	7	16.05	90.00	8.5	33.17	8.1	24.3	0.82
I33	09 Nov 2023	8	15.95	89.94	8.4	33.17	8.1	24.4	0.90
I33	09 Nov 2023	9	15.84	89.90	8.4	33.17	8.1	24.4	0.86
I33	09 Nov 2023	10	15.81	89.58	8.3	33.17	8.1	24.4	0.91
I33	09 Nov 2023	11	15.75	89.76	8.3	33.17	8.1	24.4	0.96
I33	09 Nov 2023	12	15.63	89.75	8.2	33.18	8.1	24.4	1.07
I33	09 Nov 2023	13	15.62	89.76	8.2	33.18	8.1	24.4	1.10
I33	09 Nov 2023	14	15.60	89.70	8.2	33.18	8.1	24.4	1.21
I33	09 Nov 2023	15	15.55	89.76	8.2	33.18	8.1	24.4	1.33
I33	09 Nov 2023	16	15.54	89.68	8.2	33.18	8.1	24.5	1.42
I33	09 Nov 2023	17	15.53	89.70	8.2	33.18	8.1	24.5	1.38
I33	09 Nov 2023	18	15.51	89.72	8.2	33.18	8.1	24.5	1.41
I33	09 Nov 2023	19	15.49	89.70	8.2	33.18	8.1	24.5	1.42
I33	09 Nov 2023	20	15.49	89.51	8.2	33.18	8.1	24.5	1.32
I33	09 Nov 2023	21	15.44	89.75	8.1	33.18	8.1	24.5	1.41
I33	09 Nov 2023	22	15.31	89.77	8.0	33.19	8.1	24.5	1.46
I33	09 Nov 2023	23	15.21	89.81	8.0	33.19	8.1	24.5	1.56
I33	09 Nov 2023	24	15.20	89.77	7.9	33.19	8.1	24.5	1.64
I33	09 Nov 2023	25	15.05	89.64	7.7	33.19	8.0	24.6	1.52
I33	09 Nov 2023	26	14.87	89.78	7.5	33.20	8.0	24.6	1.44
I33	09 Nov 2023	27	14.47	89.97	7.2	33.21	8.0	24.7	1.17
I33	09 Nov 2023	28	14.14	90.26	6.9	33.24	8.0	24.8	1.04
I33	09 Nov 2023	29	14.10	90.30	6.9	33.24	8.0	24.8	0.94
I33	09 Nov 2023	30	14.10	90.01	6.9	33.23	8.0	24.8	0.93
I34	09 Nov 2023	1	16.16	84.72	7.2	33.03	8.1	24.2	0.92
I34	09 Nov 2023	2	16.18	84.62	8.4	33.19	8.1	24.3	0.99
I34	09 Nov 2023	3	16.18	84.48	8.5	33.19	8.1	24.3	1.10
I34	09 Nov 2023	4	16.18	84.74	8.5	33.19	8.1	24.3	1.27
I34	09 Nov 2023	5	16.18	84.54	8.5	33.19	8.1	24.3	1.24
I34	09 Nov 2023	6	16.17	84.43	8.5	33.19	8.1	24.3	1.30
I34	09 Nov 2023	7	16.18	84.62	8.5	33.19	8.1	24.3	1.40
I34	09 Nov 2023	8	16.18	84.64	8.5	33.19	8.1	24.3	1.49
I34	09 Nov 2023	9	16.18	84.54	8.5	33.19	8.1	24.3	1.65
I34	09 Nov 2023	10	16.17	84.70	8.4	33.19	8.1	24.3	1.73
I34	09 Nov 2023	11	16.15	84.43	8.4	33.19	8.1	24.3	1.59
I34	09 Nov 2023	12	16.11	84.59	8.3	33.19	8.1	24.3	1.51
I34	09 Nov 2023	13	16.04	84.88	8.3	33.19	8.1	24.3	1.47
I34	09 Nov 2023	14	15.94	85.13	8.1	33.18	8.1	24.4	1.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I34	09 Nov 2023	15	15.78	85.12	8.0	33.18	8.1	24.4	1.41
I34	09 Nov 2023	16	15.50	85.36	7.7	33.18	8.1	24.5	1.30
I34	09 Nov 2023	17	15.20	85.92	7.5	33.18	8.0	24.5	1.26
I34	09 Nov 2023	18	15.04	86.68	7.5	33.19	8.0	24.6	1.16
I34	09 Nov 2023	19	15.08	85.41	7.5	33.19	8.0	24.6	1.12
I35	09 Nov 2023	1	16.27	81.53	8.1	33.21	8.1	24.3	0.73
I35	09 Nov 2023	2	16.26	81.62	8.1	33.21	8.1	24.3	0.67
I35	09 Nov 2023	3	16.20	81.20	8.1	33.21	8.1	24.3	0.72
I35	09 Nov 2023	4	16.17	80.33	8.2	33.20	8.1	24.3	0.97
I35	09 Nov 2023	5	16.15	79.50	8.2	33.20	8.1	24.3	1.47
I35	09 Nov 2023	6	16.14	78.78	8.2	33.20	8.1	24.3	1.97
I35	09 Nov 2023	7	16.13	78.26	8.2	33.20	8.1	24.3	2.53
I35	09 Nov 2023	8	16.12	77.89	8.2	33.20	8.1	24.3	3.10
I35	09 Nov 2023	9	16.10	77.37	8.2	33.20	8.1	24.3	3.40
I35	09 Nov 2023	10	16.09	77.49	8.1	33.20	8.1	24.3	3.41
I35	09 Nov 2023	11	16.02	77.93	8.0	33.20	8.1	24.4	3.05
I35	09 Nov 2023	12	15.80	78.81	7.8	33.20	8.1	24.4	2.61
I35	09 Nov 2023	13	15.60	79.24	7.4	33.19	8.0	24.4	2.65
I35	09 Nov 2023	14	15.47	79.20	7.1	33.19	8.0	24.5	2.23
I35	09 Nov 2023	15	15.43	78.37	7.0	33.19	8.0	24.5	1.99
I35	09 Nov 2023	16	15.39	78.00	6.7	33.19	8.0	24.5	1.77
I35	09 Nov 2023	17	15.28	76.82	6.1	33.19	7.9	24.5	1.65
I35	09 Nov 2023	18	15.19	74.05	5.8	33.19	7.9	24.5	1.71
I35	09 Nov 2023	19	15.17	56.45	5.7	33.19	7.9	24.5	1.53
I36	09 Nov 2023	1	16.47	82.72	9.2	33.20	8.2	24.3	0.67
I36	09 Nov 2023	2	16.44	82.71	9.2	33.20	8.2	24.3	0.70
I36	09 Nov 2023	3	16.38	81.90	9.2	33.20	8.2	24.3	1.06
I36	09 Nov 2023	4	16.36	79.70	9.2	33.20	8.2	24.3	1.61
I36	09 Nov 2023	5	16.34	79.12	9.1	33.20	8.2	24.3	2.43
I36	09 Nov 2023	6	16.25	78.19	8.7	33.19	8.2	24.3	3.10
I36	09 Nov 2023	7	16.03	77.53	8.0	33.20	8.1	24.4	3.28
I36	09 Nov 2023	8	15.93	72.88	7.3	33.19	8.0	24.4	2.92
I36	09 Nov 2023	9	15.76	66.93	6.8	33.19	8.0	24.4	2.77
I36	09 Nov 2023	10	15.66	64.34	6.5	33.19	8.0	24.4	2.39
I36	09 Nov 2023	11	15.64	55.04	6.3	33.19	7.9	24.4	2.25
I37	09 Nov 2023	1	16.27	79.28	8.4	33.20	8.1	24.3	1.85
I37	09 Nov 2023	2	16.26	79.13	8.4	33.20	8.1	24.3	2.15
I37	09 Nov 2023	3	16.25	78.61	8.4	33.20	8.1	24.3	2.39
I37	09 Nov 2023	4	16.19	78.69	8.2	33.20	8.1	24.3	2.82
I37	09 Nov 2023	5	16.01	77.90	7.7	33.20	8.0	24.4	3.76
I37	09 Nov 2023	6	15.79	76.33	7.3	33.20	8.0	24.4	3.61
I37	09 Nov 2023	7	15.72	74.72	7.2	33.20	8.0	24.4	2.64
I37	09 Nov 2023	8	15.66	72.53	7.2	33.20	8.0	24.4	1.94
I37	09 Nov 2023	9	15.64	72.15	7.1	33.19	8.0	24.4	1.45
I37	09 Nov 2023	10	15.51	70.22	7.2	33.19	8.0	24.5	1.26
I37	09 Nov 2023	11	15.45	71.62	7.2	33.20	8.0	24.5	1.14
I37	09 Nov 2023	12	15.43	72.40	7.2	33.19	8.0	24.5	1.13
I38	09 Nov 2023	1	16.68	84.63	9.6	33.20	8.2	24.2	0.47
I38	09 Nov 2023	2	16.56	84.43	9.6	33.20	8.2	24.2	0.51
I38	09 Nov 2023	3	16.51	83.17	9.6	33.20	8.2	24.2	0.70
I38	09 Nov 2023	4	16.47	81.89	9.6	33.20	8.2	24.3	1.03
I38	09 Nov 2023	5	16.44	80.59	9.6	33.20	8.2	24.3	1.45
I38	09 Nov 2023	6	16.40	79.79	9.3	33.20	8.2	24.3	2.02
I38	09 Nov 2023	7	16.03	79.80	8.4	33.19	8.2	24.4	2.46
I38	09 Nov 2023	8	15.68	79.25	7.8	33.19	8.1	24.4	2.44
I38	09 Nov 2023	9	15.64	77.32	7.4	33.19	8.0	24.4	2.28
I38	09 Nov 2023	10	15.62	76.47	6.8	33.19	8.0	24.4	2.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I38	09 Nov 2023	11	15.60	70.28	6.2	33.19	8.0	24.4	2.51
I4	07 Nov 2023	1	16.69	88.91	8.8	33.17	8.2	24.2	0.49
I4	07 Nov 2023	2	16.66	88.15	8.7	33.17	8.2	24.2	0.49
I4	07 Nov 2023	3	16.41	89.21	8.7	33.17	8.2	24.2	0.52
I4	07 Nov 2023	4	16.38	89.03	8.7	33.16	8.2	24.2	0.56
I4	07 Nov 2023	5	16.37	89.47	8.7	33.16	8.2	24.2	0.54
I4	07 Nov 2023	6	16.35	89.95	8.6	33.16	8.2	24.3	0.54
I4	07 Nov 2023	7	16.29	90.15	8.6	33.16	8.2	24.3	0.60
I4	07 Nov 2023	8	16.24	89.99	8.5	33.16	8.2	24.3	0.74
I4	07 Nov 2023	9	16.15	89.37	8.4	33.16	8.2	24.3	0.93
I4	07 Nov 2023	10	16.06	88.91	8.4	33.16	8.1	24.3	1.01
I4	07 Nov 2023	11	15.74	89.04	8.2	33.14	8.1	24.4	1.05
I4	07 Nov 2023	12	15.37	89.41	8.2	33.16	8.1	24.5	0.99
I4	07 Nov 2023	13	15.33	89.33	8.2	33.16	8.1	24.5	1.21
I4	07 Nov 2023	14	15.33	88.07	8.2	33.16	8.1	24.5	1.43
I4	07 Nov 2023	15	15.26	86.81	8.0	33.17	8.1	24.5	1.72
I4	07 Nov 2023	16	15.21	85.61	7.9	33.18	8.1	24.5	2.20
I4	07 Nov 2023	17	15.17	81.18	7.8	33.19	8.1	24.5	2.34
I4	07 Nov 2023	18	15.13	76.58	7.7	33.19	8.1	24.5	2.37
I5	07 Nov 2023	1	16.82	83.71	9.0	33.16	8.2	24.1	0.64
I5	07 Nov 2023	2	16.66	83.29	8.9	33.16	8.2	24.2	0.64
I5	07 Nov 2023	3	16.47	84.06	8.8	33.17	8.2	24.2	0.67
I5	07 Nov 2023	4	16.42	84.71	8.7	33.17	8.2	24.2	0.65
I5	07 Nov 2023	5	16.31	87.53	8.6	33.17	8.2	24.3	0.61
I5	07 Nov 2023	6	16.26	88.30	8.6	33.17	8.2	24.3	0.65
I5	07 Nov 2023	7	16.24	88.64	8.6	33.16	8.2	24.3	0.72
I5	07 Nov 2023	8	16.19	88.72	8.7	33.16	8.2	24.3	0.85
I5	07 Nov 2023	9	16.12	88.42	9.2	33.17	8.2	24.3	1.25
I5	07 Nov 2023	10	16.02	85.66	9.4	33.18	8.2	24.3	2.45
I5	07 Nov 2023	11	15.93	82.12	9.2	33.18	8.2	24.4	3.95
I5	07 Nov 2023	12	15.82	80.42	8.7	33.18	8.2	24.4	3.70
I5	07 Nov 2023	13	15.78	78.47	8.3	33.18	8.1	24.4	3.03
I5	07 Nov 2023	14	15.68	74.04	8.2	33.17	8.1	24.4	2.94
I6	07 Nov 2023	1	16.96	89.34	8.6	33.16	8.2	24.1	0.53
I6	07 Nov 2023	2	16.81	89.45	8.6	33.17	8.2	24.2	0.53
I6	07 Nov 2023	3	16.56	89.43	8.6	33.17	8.2	24.2	0.53
I6	07 Nov 2023	4	16.55	89.58	8.6	33.17	8.2	24.2	0.52
I6	07 Nov 2023	5	16.54	89.70	8.6	33.17	8.2	24.2	0.52
I6	07 Nov 2023	6	16.51	89.76	8.6	33.17	8.2	24.2	0.53
I6	07 Nov 2023	7	16.48	89.82	8.6	33.17	8.2	24.2	0.56
I6	07 Nov 2023	8	16.46	89.89	8.6	33.16	8.2	24.2	0.62
I6	07 Nov 2023	9	16.45	89.75	8.6	33.16	8.2	24.2	0.72
I6	07 Nov 2023	10	16.41	89.53	8.5	33.16	8.2	24.2	0.82
I6	07 Nov 2023	11	16.18	89.27	8.5	33.16	8.2	24.3	0.91
I6	07 Nov 2023	12	16.07	88.98	8.3	33.16	8.2	24.3	1.00
I6	07 Nov 2023	13	15.58	88.85	8.2	33.17	8.1	24.4	1.13
I6	07 Nov 2023	14	15.52	89.37	8.1	33.17	8.1	24.4	1.29
I6	07 Nov 2023	15	15.20	88.90	7.9	33.16	8.1	24.5	1.30
I6	07 Nov 2023	16	15.02	88.96	7.9	33.18	8.1	24.6	1.36
I6	07 Nov 2023	17	15.02	88.86	7.9	33.18	8.1	24.6	1.36
I6	07 Nov 2023	18	15.01	88.84	7.8	33.18	8.1	24.6	1.34
I6	07 Nov 2023	19	15.01	88.58	7.9	33.18	8.1	24.6	1.43
I6	07 Nov 2023	20	15.01	88.58	7.9	33.18	8.1	24.6	1.45
I6	07 Nov 2023	21	15.01	88.46	7.9	33.19	8.1	24.6	1.49
I6	07 Nov 2023	22	15.01	88.44	7.9	33.19	8.1	24.6	1.42
I6	07 Nov 2023	23	15.01	88.27	7.8	33.19	8.1	24.6	1.46
I6	07 Nov 2023	24	15.01	88.12	7.8	33.19	8.1	24.6	1.39
I6	07 Nov 2023	25	15.01	88.01	7.8	33.19	8.1	24.6	1.33

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I7	07 Nov 2023	1	16.89	71.68	9.0	33.11	8.2	24.1	0.72
I7	07 Nov 2023	2	16.85	68.95	9.0	33.18	8.2	24.2	0.78
I7	07 Nov 2023	3	16.83	79.42	9.0	33.18	8.2	24.2	0.90
I7	07 Nov 2023	4	16.79	87.83	9.1	33.19	8.2	24.2	1.13
I7	07 Nov 2023	5	16.77	87.87	9.1	33.19	8.2	24.2	1.38
I7	07 Nov 2023	6	16.64	87.91	9.0	33.19	8.2	24.2	1.26
I7	07 Nov 2023	7	16.58	88.58	9.0	33.19	8.2	24.2	1.17
I7	07 Nov 2023	8	16.52	89.08	8.8	33.18	8.2	24.2	1.09
I7	07 Nov 2023	9	16.36	89.14	8.8	33.18	8.2	24.3	1.05
I7	07 Nov 2023	10	16.35	89.32	8.8	33.18	8.2	24.3	0.99
I7	07 Nov 2023	11	16.34	89.40	8.7	33.18	8.2	24.3	1.05
I7	07 Nov 2023	12	16.30	89.45	8.7	33.18	8.2	24.3	1.01
I7	07 Nov 2023	13	16.30	89.78	8.7	33.18	8.2	24.3	1.01
I7	07 Nov 2023	14	16.29	89.82	8.6	33.18	8.1	24.3	1.02
I7	07 Nov 2023	15	16.22	89.97	8.6	33.17	8.1	24.3	1.01
I7	07 Nov 2023	16	16.13	90.07	8.4	33.16	8.1	24.3	1.08
I7	07 Nov 2023	17	16.07	90.16	8.4	33.16	8.1	24.3	1.07
I7	07 Nov 2023	18	16.06	90.32	8.4	33.16	8.1	24.3	1.16
I7	07 Nov 2023	19	16.04	90.37	8.4	33.16	8.1	24.3	1.13
I7	07 Nov 2023	20	15.99	90.23	8.3	33.16	8.1	24.3	1.19
I7	07 Nov 2023	21	15.96	90.40	8.4	33.16	8.1	24.3	1.21
I7	07 Nov 2023	22	15.98	90.37	8.4	33.16	8.1	24.3	1.17
I7	07 Nov 2023	23	16.02	90.35	8.3	33.16	8.1	24.3	1.17
I7	07 Nov 2023	24	15.91	90.30	8.3	33.16	8.1	24.4	1.24
I7	07 Nov 2023	25	15.88	90.25	8.3	33.16	8.1	24.4	1.28
I7	07 Nov 2023	26	15.74	90.09	8.2	33.17	8.1	24.4	1.32
I7	07 Nov 2023	27	15.64	90.12	8.2	33.17	8.1	24.4	1.51
I7	07 Nov 2023	28	15.57	89.82	8.1	33.17	8.1	24.4	1.63
I7	07 Nov 2023	29	15.45	89.51	8.1	33.17	8.1	24.5	1.82
I7	07 Nov 2023	30	15.33	89.42	7.8	33.18	8.1	24.5	1.96
I7	07 Nov 2023	31	14.90	89.28	7.6	33.19	8.1	24.6	2.03
I7	07 Nov 2023	32	14.78	89.60	7.6	33.19	8.1	24.6	1.93
I7	07 Nov 2023	33	14.63	90.35	7.5	33.19	8.1	24.7	1.58
I7	07 Nov 2023	34	14.56	90.90	7.5	33.19	8.0	24.7	1.31
I7	07 Nov 2023	35	14.52	91.27	7.4	33.20	8.0	24.7	1.14
I7	07 Nov 2023	36	14.46	91.24	7.4	33.20	8.0	24.7	1.10
I7	07 Nov 2023	37	14.45	91.15	7.4	33.20	8.0	24.7	1.15
I7	07 Nov 2023	38	14.45	91.16	7.3	33.20	8.0	24.7	1.13
I7	07 Nov 2023	39	14.41	91.09	7.3	33.20	8.0	24.7	1.13
I7	07 Nov 2023	40	14.40	91.10	7.3	33.21	8.0	24.7	1.13
I7	07 Nov 2023	41	14.35	91.08	7.3	33.21	8.0	24.7	1.14
I7	07 Nov 2023	42	14.33	91.11	7.3	33.21	8.0	24.7	1.14
I7	07 Nov 2023	43	14.32	91.29	7.2	33.21	8.0	24.7	1.12
I7	07 Nov 2023	44	14.31	91.29	7.3	33.21	8.0	24.7	1.15
I7	07 Nov 2023	45	14.32	91.32	7.2	33.21	8.0	24.7	1.12
I7	07 Nov 2023	46	14.31	91.39	7.2	33.21	8.0	24.7	1.10
I7	07 Nov 2023	47	14.31	91.32	7.2	33.21	8.0	24.7	1.10
I7	07 Nov 2023	48	14.30	91.24	7.2	33.21	8.0	24.7	1.10
I7	07 Nov 2023	49	14.28	91.27	7.2	33.22	8.0	24.8	1.07
I7	07 Nov 2023	50	14.28	91.42	7.1	33.22	8.0	24.8	1.05
I7	07 Nov 2023	51	14.11	91.24	6.9	33.23	8.0	24.8	0.94
I7	07 Nov 2023	52	14.11	91.26	6.9	33.23	8.0	24.8	0.87
I8	07 Nov 2023	1	17.17	88.45	8.6	33.16	8.2	24.1	0.60
I8	07 Nov 2023	2	16.78	88.81	8.7	33.16	8.2	24.2	0.55
I8	07 Nov 2023	3	16.72	88.70	8.7	33.16	8.2	24.2	0.53
I8	07 Nov 2023	4	16.68	89.43	8.8	33.17	8.2	24.2	0.50
I8	07 Nov 2023	5	16.67	89.80	8.6	33.16	8.2	24.2	0.50
I8	07 Nov 2023	6	16.52	88.54	8.4	33.15	8.2	24.2	0.50
I8	07 Nov 2023	7	16.49	89.05	8.5	33.15	8.2	24.2	0.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I8	07 Nov 2023	8	16.50	89.28	8.4	33.15	8.2	24.2	0.66
I8	07 Nov 2023	9	16.39	88.92	8.4	33.16	8.2	24.2	0.77
I8	07 Nov 2023	10	16.33	88.86	8.4	33.16	8.2	24.3	0.88
I8	07 Nov 2023	11	16.28	88.76	8.3	33.16	8.2	24.3	0.92
I8	07 Nov 2023	12	15.83	89.06	8.2	33.16	8.1	24.4	1.04
I8	07 Nov 2023	13	15.66	89.71	8.2	33.17	8.1	24.4	1.13
I8	07 Nov 2023	14	15.36	90.50	8.0	33.16	8.1	24.5	1.06
I8	07 Nov 2023	15	15.08	90.54	7.8	33.17	8.1	24.5	1.01
I8	07 Nov 2023	16	14.96	90.57	7.8	33.18	8.1	24.6	0.99
I8	07 Nov 2023	17	14.91	90.92	7.8	33.17	8.1	24.6	1.12
I8	07 Nov 2023	18	14.82	90.83	7.8	33.18	8.1	24.6	1.00
I8	07 Nov 2023	19	14.81	90.75	7.8	33.18	8.1	24.6	1.04
I8	07 Nov 2023	20	14.80	90.72	7.8	33.18	8.1	24.6	1.04
I8	07 Nov 2023	21	14.79	90.67	7.8	33.18	8.1	24.6	1.02
I8	07 Nov 2023	22	14.78	90.48	7.8	33.18	8.1	24.6	1.11
I8	07 Nov 2023	23	14.78	90.60	7.8	33.19	8.1	24.6	1.19
I8	07 Nov 2023	24	14.78	90.65	7.7	33.19	8.1	24.6	1.17
I8	07 Nov 2023	25	14.78	90.69	7.7	33.19	8.1	24.6	1.14
I8	07 Nov 2023	26	14.77	90.63	7.7	33.19	8.1	24.6	1.11
I8	07 Nov 2023	27	14.77	90.79	7.7	33.19	8.1	24.6	1.15
I8	07 Nov 2023	28	14.75	90.56	7.7	33.19	8.1	24.6	1.18
I8	07 Nov 2023	29	14.73	90.87	7.7	33.19	8.1	24.6	1.17
I8	07 Nov 2023	30	14.73	90.96	7.6	33.19	8.1	24.6	1.19
I8	07 Nov 2023	31	14.72	90.88	7.6	33.19	8.1	24.6	1.12
I8	07 Nov 2023	32	14.72	90.79	7.7	33.19	8.1	24.6	1.10
I8	07 Nov 2023	33	14.72	91.03	7.7	33.19	8.1	24.6	1.19
I8	07 Nov 2023	34	14.72	91.00	7.7	33.19	8.1	24.6	1.24
I8	07 Nov 2023	35	14.72	91.00	7.6	33.19	8.1	24.6	1.20
I8	07 Nov 2023	36	14.72	75.82	7.6	33.19	8.1	24.6	0.83
I9	07 Nov 2023	1	17.05	88.60	8.6	33.16	8.2	24.1	0.47
I9	07 Nov 2023	2	16.79	89.81	8.6	33.16	8.2	24.2	0.48
I9	07 Nov 2023	3	16.69	89.71	8.7	33.16	8.2	24.2	0.48
I9	07 Nov 2023	4	16.65	89.72	8.7	33.16	8.2	24.2	0.49
I9	07 Nov 2023	5	16.63	89.83	8.7	33.16	8.2	24.2	0.48
I9	07 Nov 2023	6	16.62	89.91	8.7	33.16	8.2	24.2	0.51
I9	07 Nov 2023	7	16.61	89.86	8.7	33.16	8.2	24.2	0.54
I9	07 Nov 2023	8	16.59	89.94	8.6	33.16	8.2	24.2	0.55
I9	07 Nov 2023	9	16.58	90.05	8.6	33.16	8.2	24.2	0.60
I9	07 Nov 2023	10	16.57	90.03	8.6	33.16	8.2	24.2	0.65
I9	07 Nov 2023	11	16.54	89.92	8.6	33.16	8.2	24.2	0.67
I9	07 Nov 2023	12	16.40	89.63	8.6	33.16	8.2	24.2	0.68
I9	07 Nov 2023	13	16.35	89.50	8.7	33.16	8.2	24.3	0.71
I9	07 Nov 2023	14	16.34	90.10	8.7	33.17	8.2	24.3	0.67
I9	07 Nov 2023	15	16.33	90.49	8.5	33.16	8.2	24.3	0.74
I9	07 Nov 2023	16	16.15	90.26	8.3	33.15	8.2	24.3	0.95
I9	07 Nov 2023	17	15.97	89.30	8.4	33.17	8.1	24.3	1.02
I9	07 Nov 2023	18	15.98	89.27	8.4	33.16	8.1	24.3	1.22
I9	07 Nov 2023	19	15.81	89.12	8.2	33.17	8.1	24.4	1.39
I9	07 Nov 2023	20	15.47	88.50	8.0	33.15	8.1	24.4	1.45
I9	07 Nov 2023	21	15.05	89.13	7.9	33.17	8.1	24.6	1.37
I9	07 Nov 2023	22	15.01	90.12	7.9	33.18	8.1	24.6	1.24
I9	07 Nov 2023	23	15.00	89.72	7.9	33.18	8.1	24.6	1.33
I9	07 Nov 2023	24	14.99	89.50	7.9	33.18	8.1	24.6	1.38
I9	07 Nov 2023	25	14.98	89.17	7.9	33.18	8.1	24.6	1.34
I9	07 Nov 2023	26	14.98	88.37	7.8	33.19	8.1	24.6	1.34
I9	07 Nov 2023	27	14.99	88.34	7.8	33.19	8.1	24.6	1.32
I9	07 Nov 2023	28	14.98	88.23	7.8	33.19	8.1	24.6	1.34
I9	07 Nov 2023	29	14.99	87.90	7.8	33.19	8.1	24.6	1.28

NA = not available

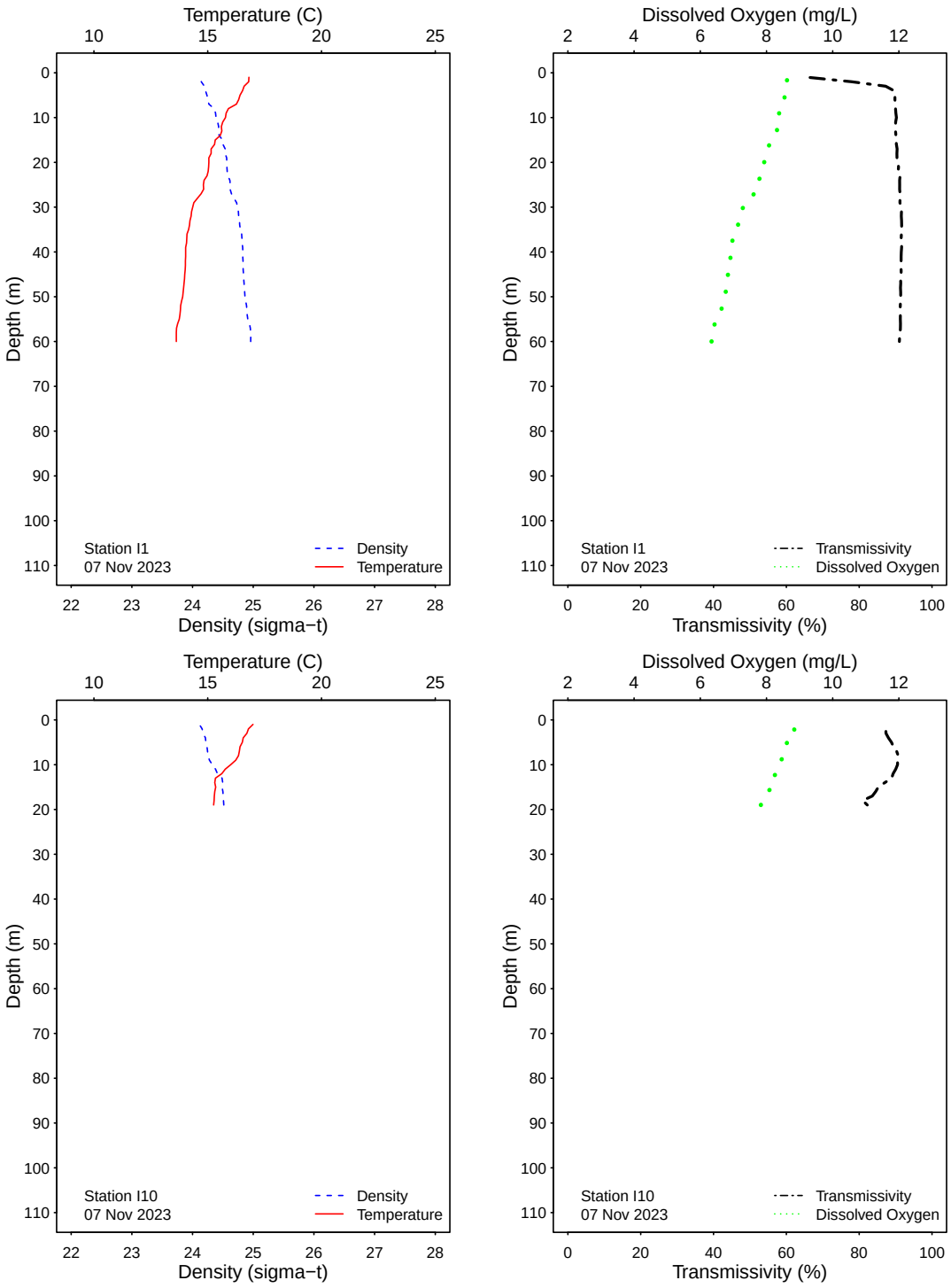

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

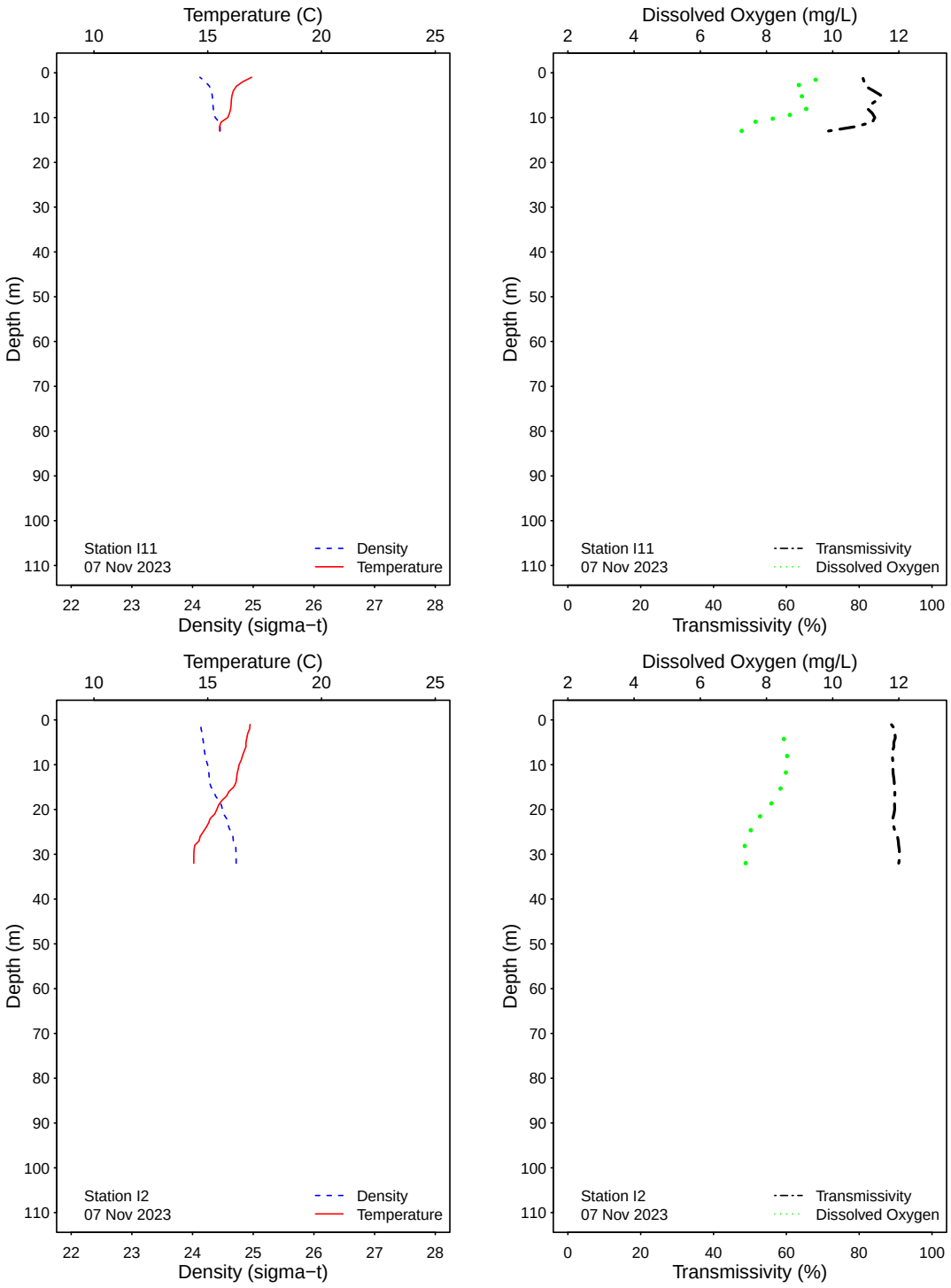

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

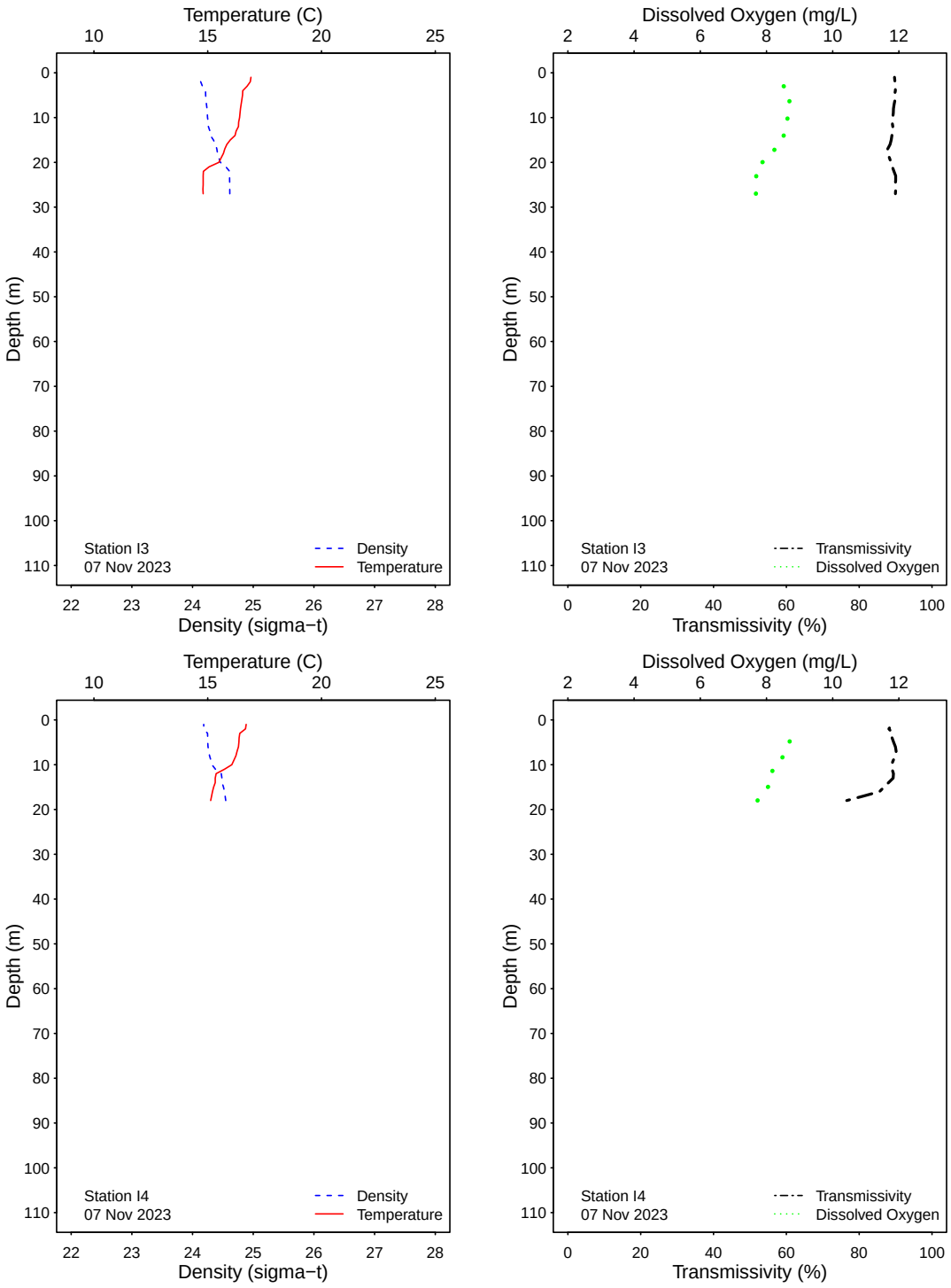

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

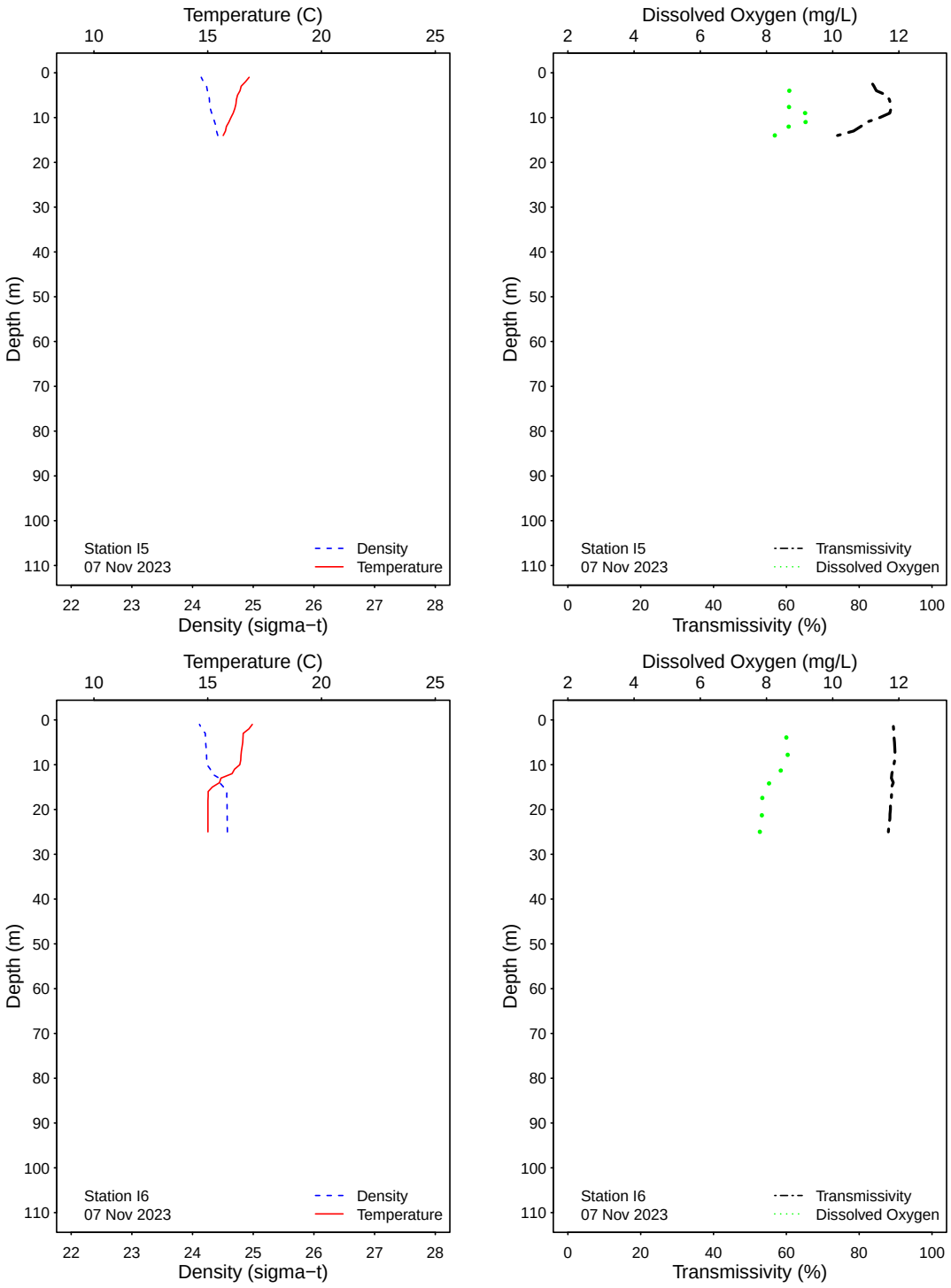

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

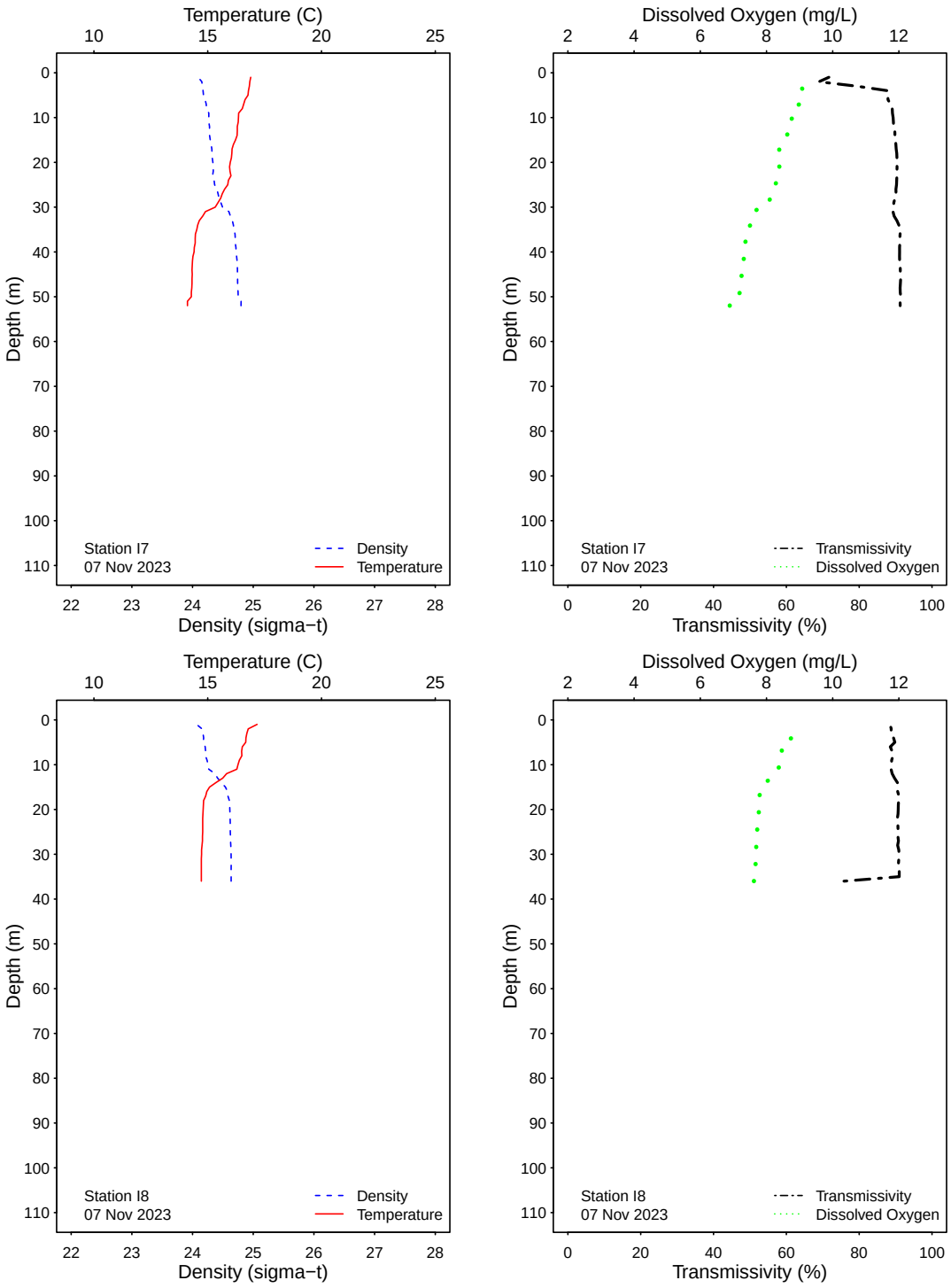

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

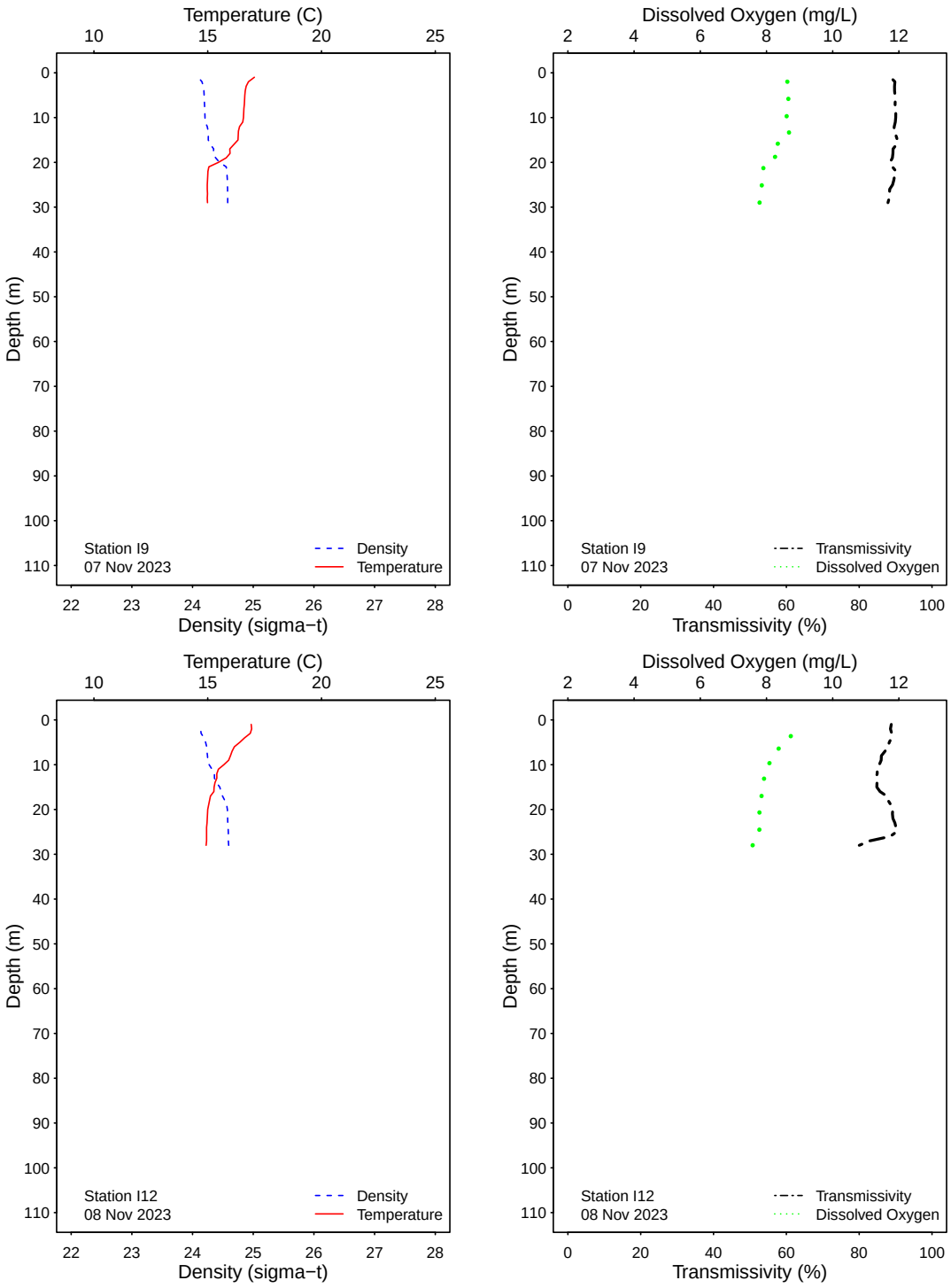

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

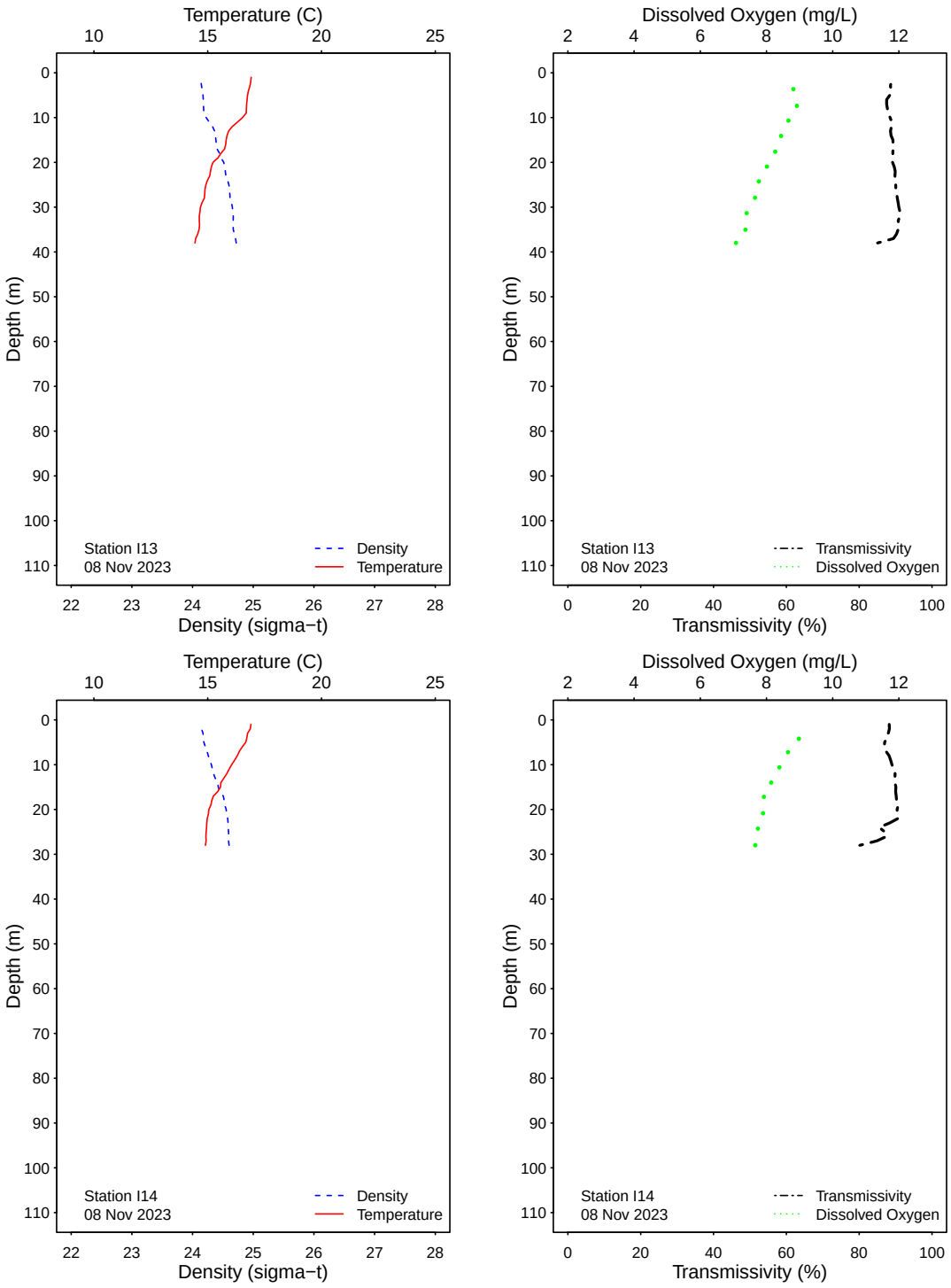

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

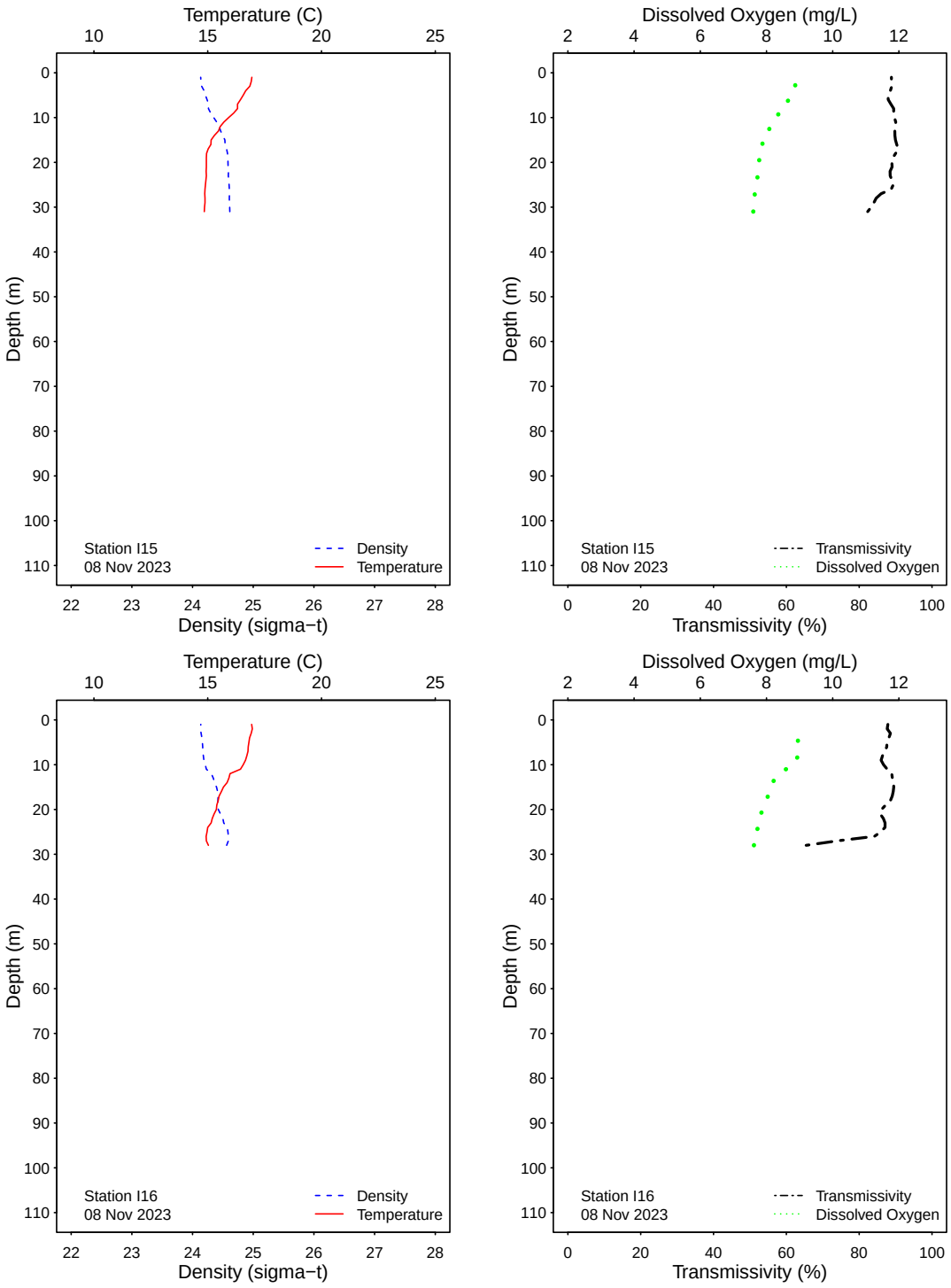

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

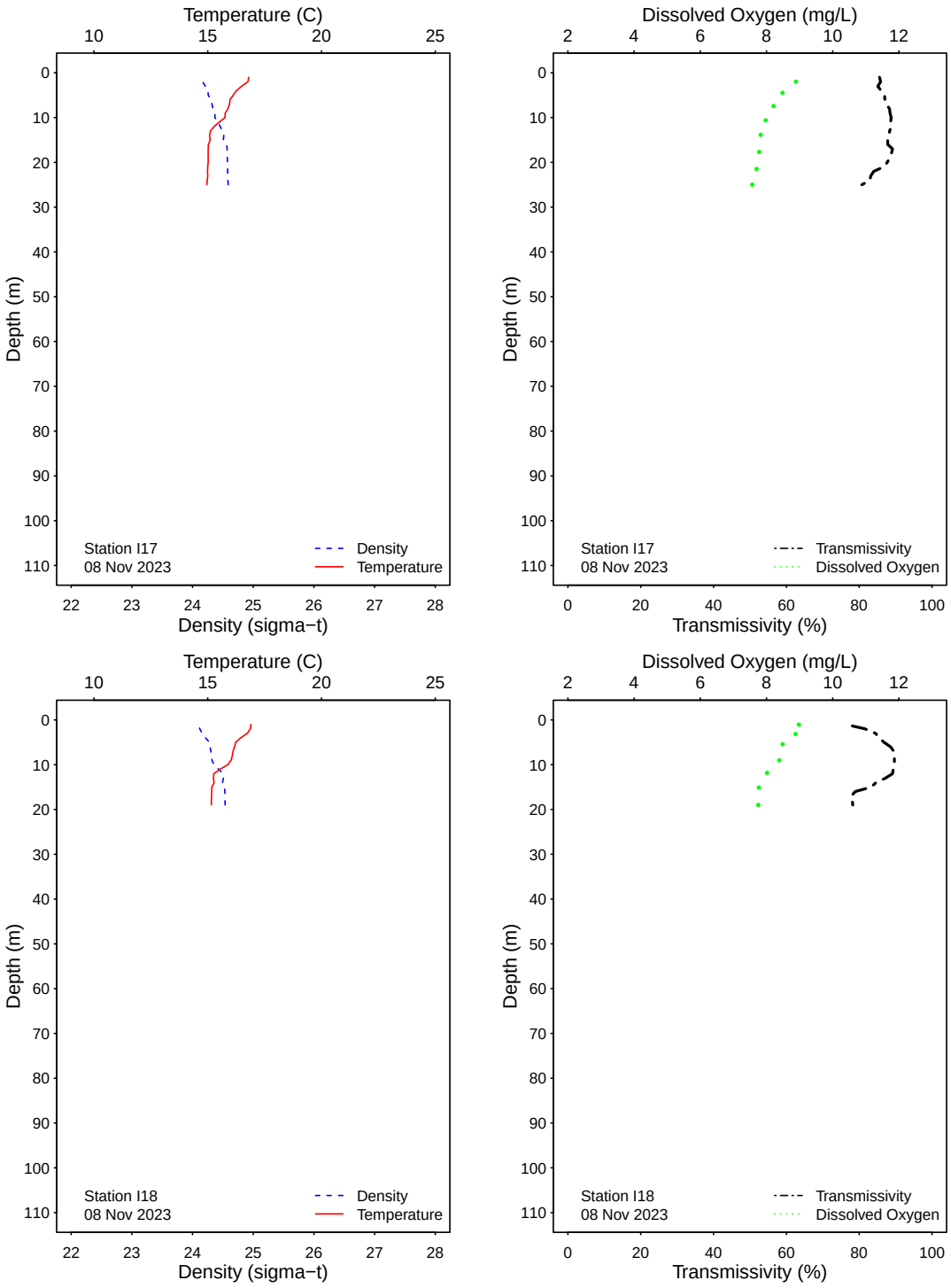

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

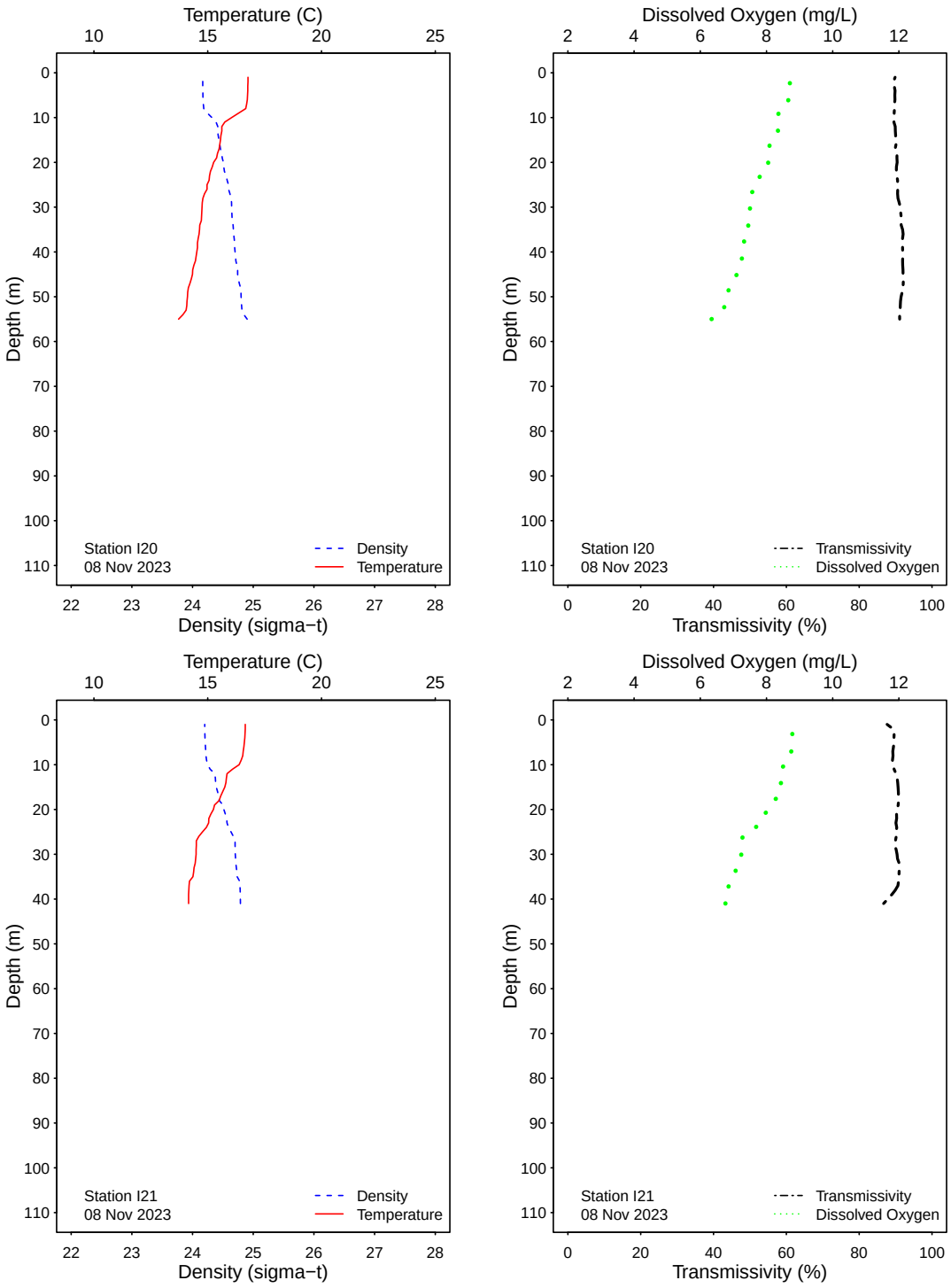

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

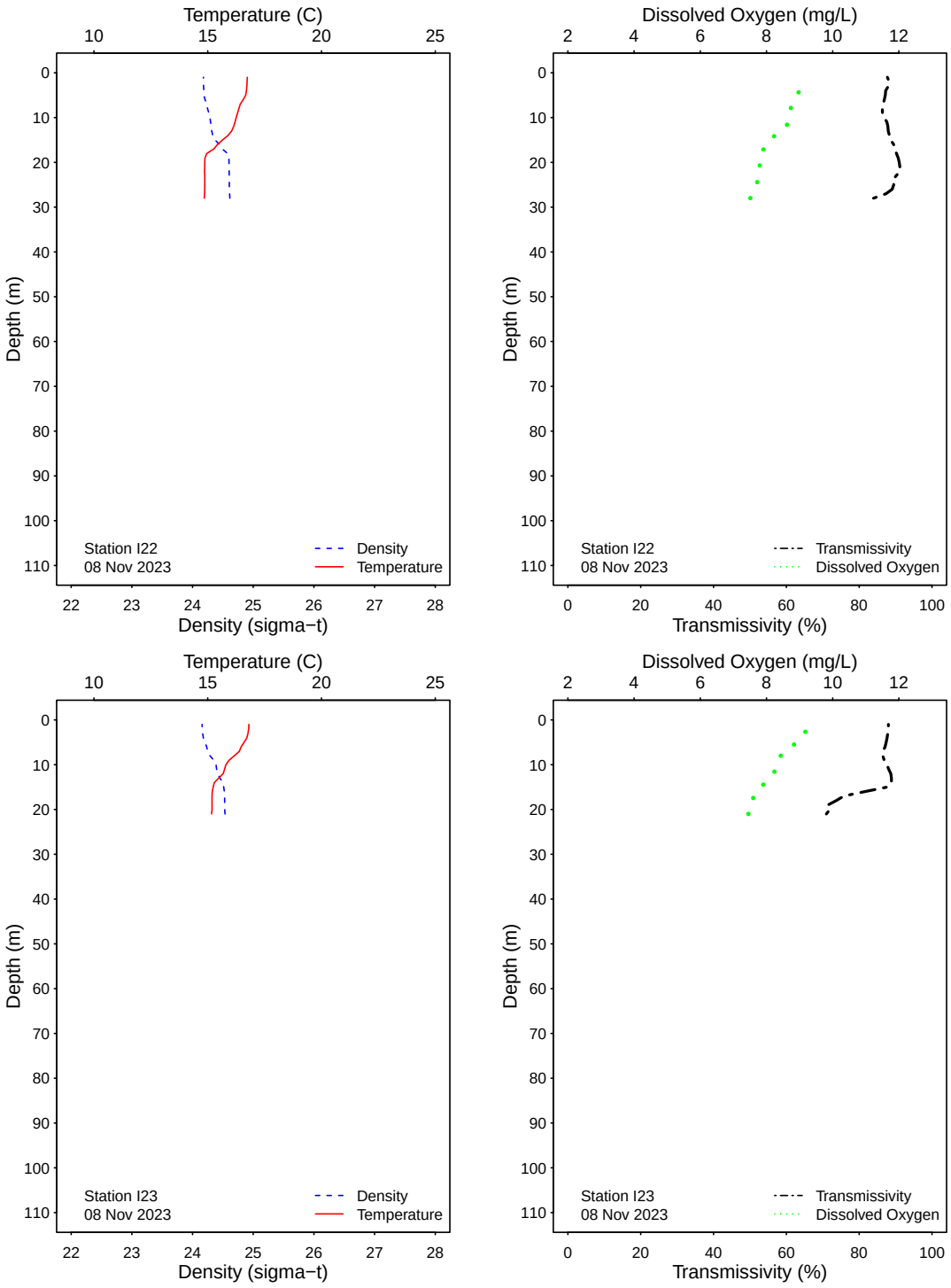

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

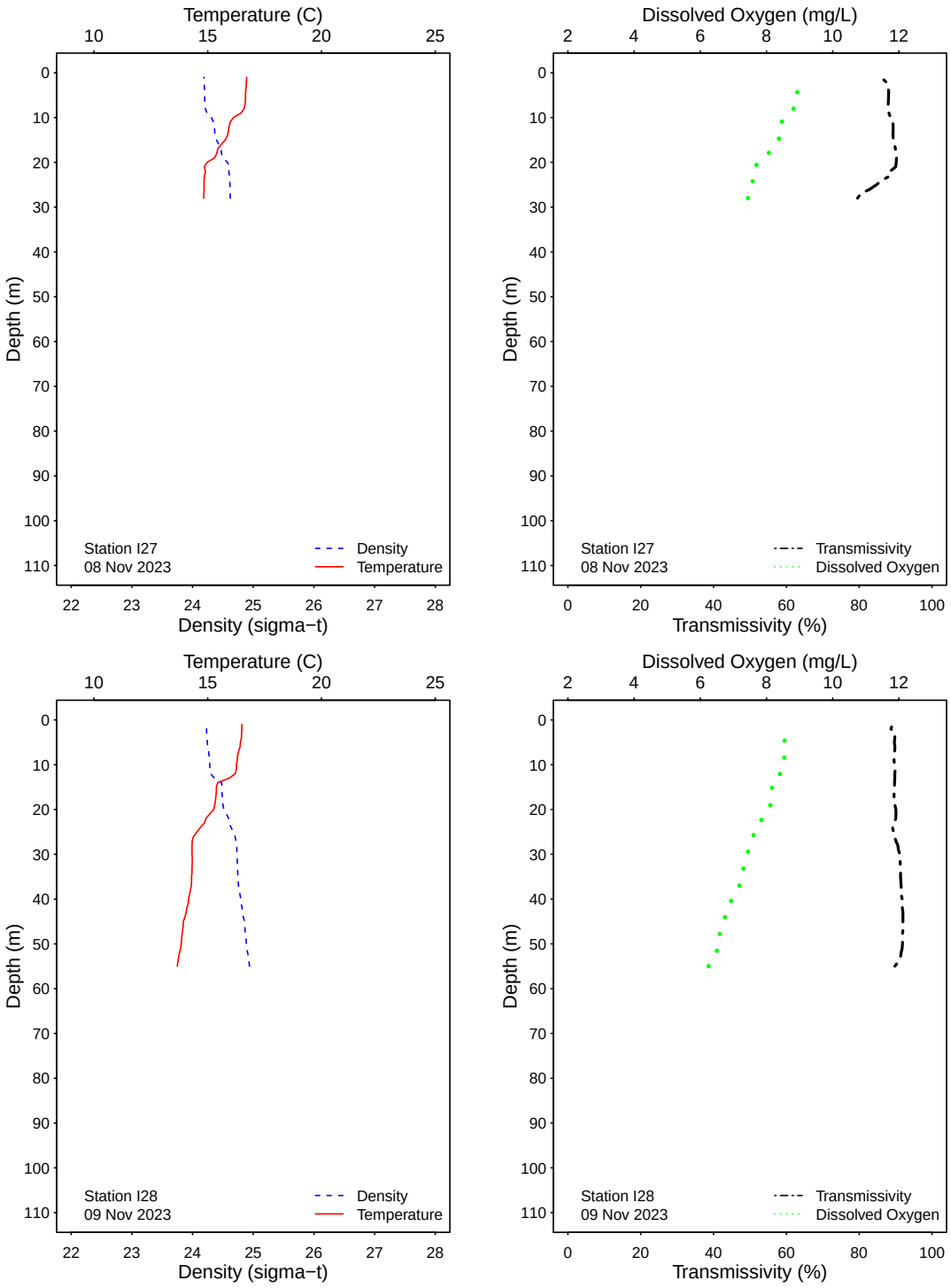

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

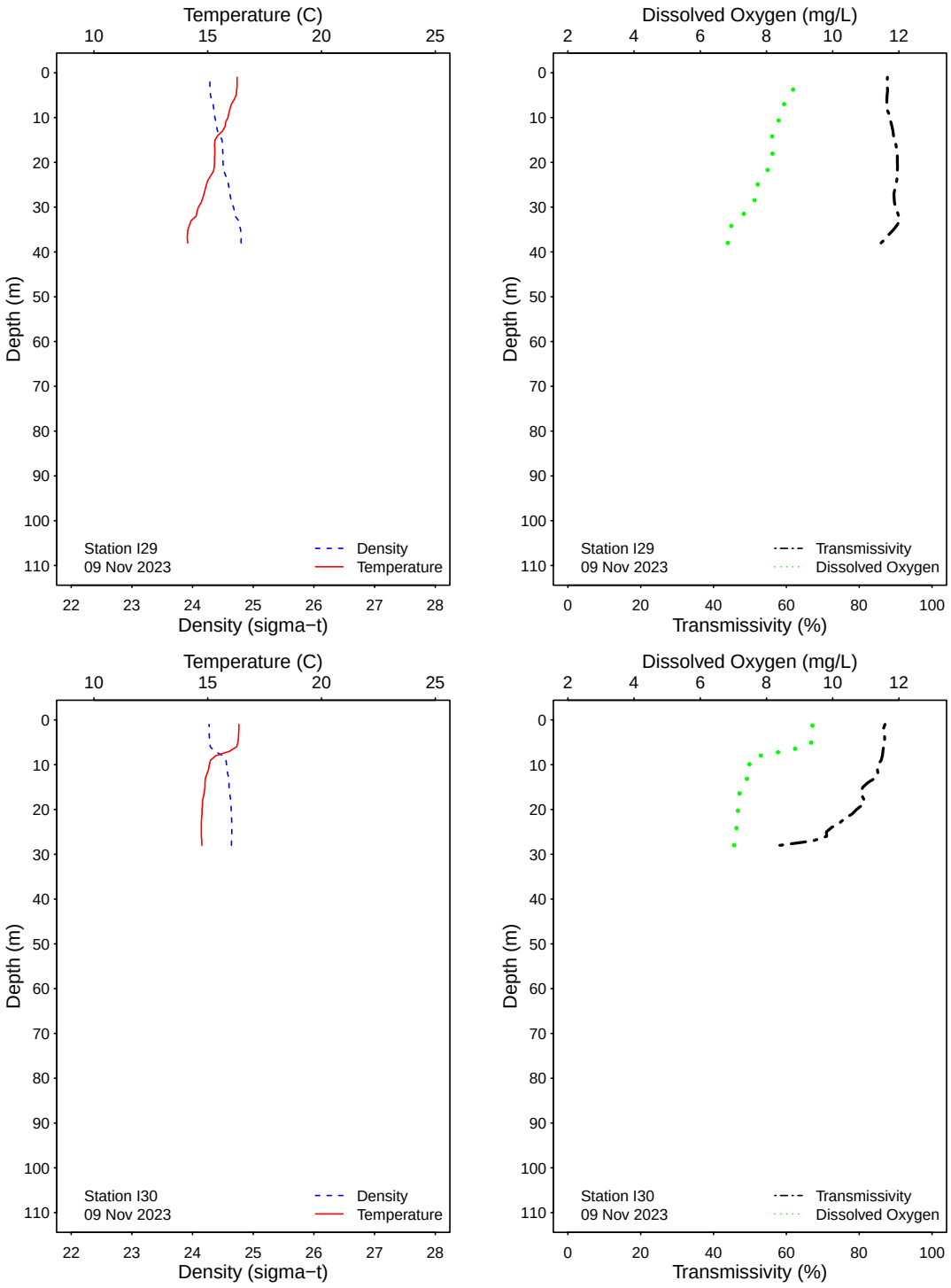

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

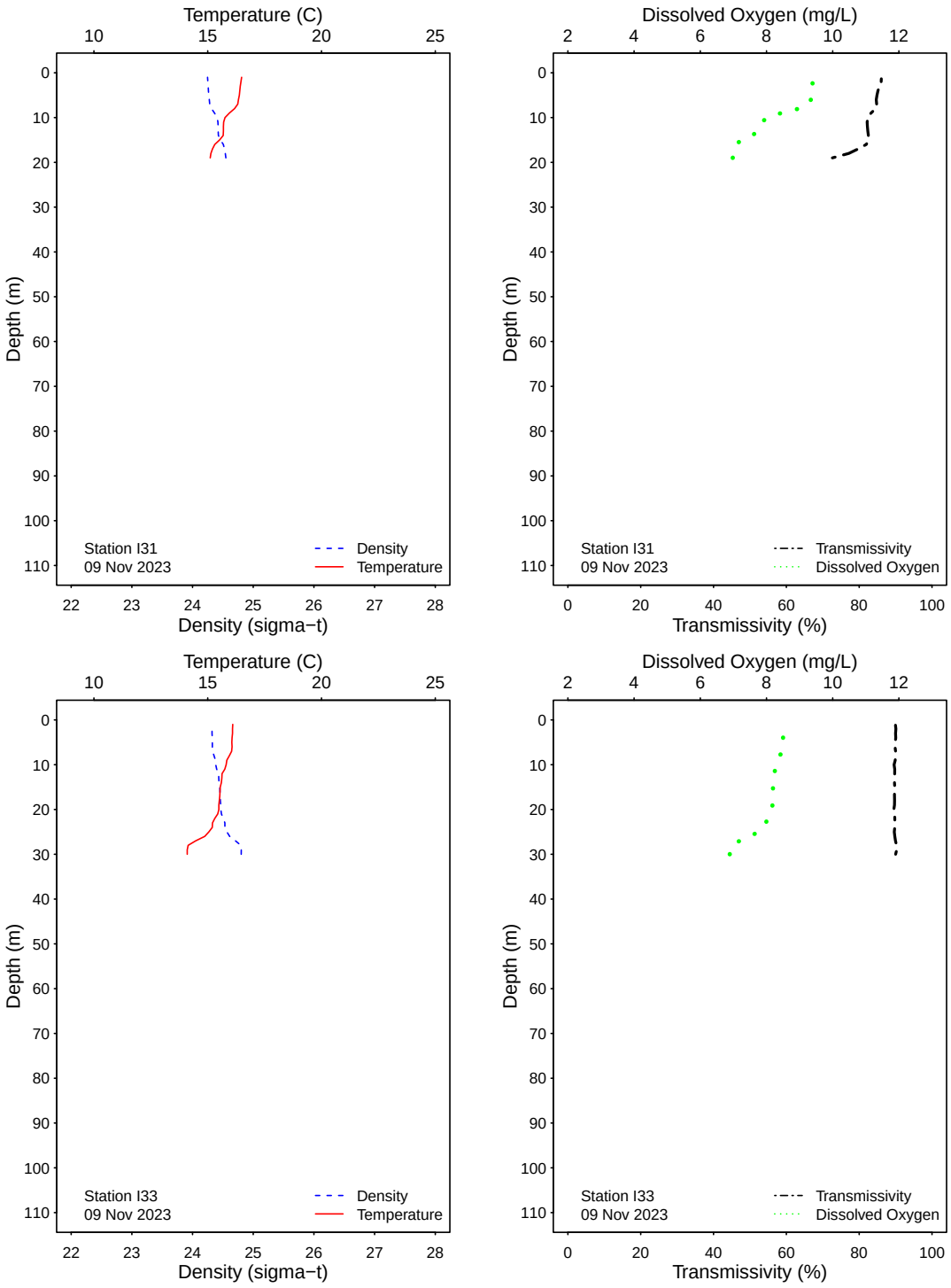

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

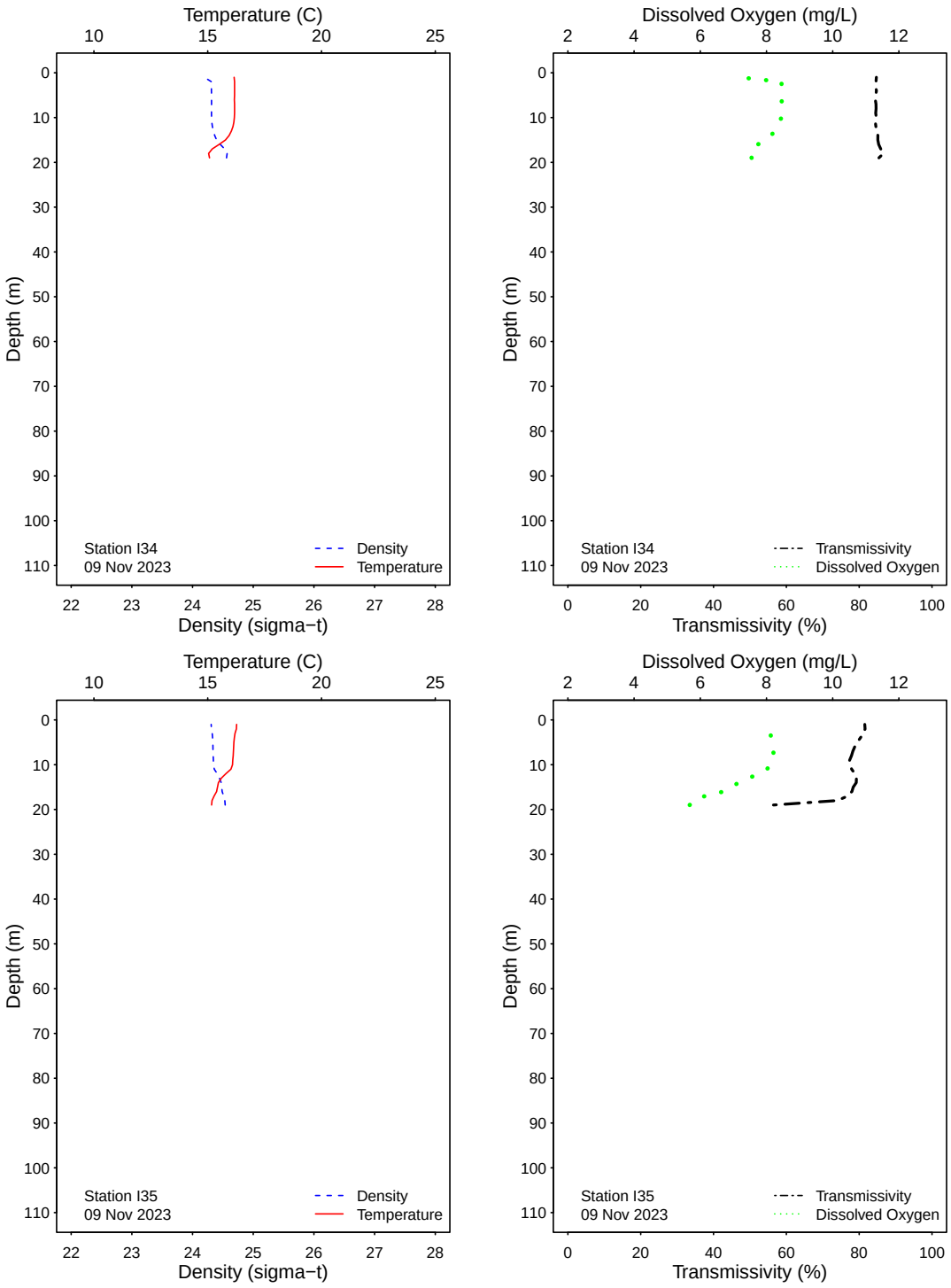

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

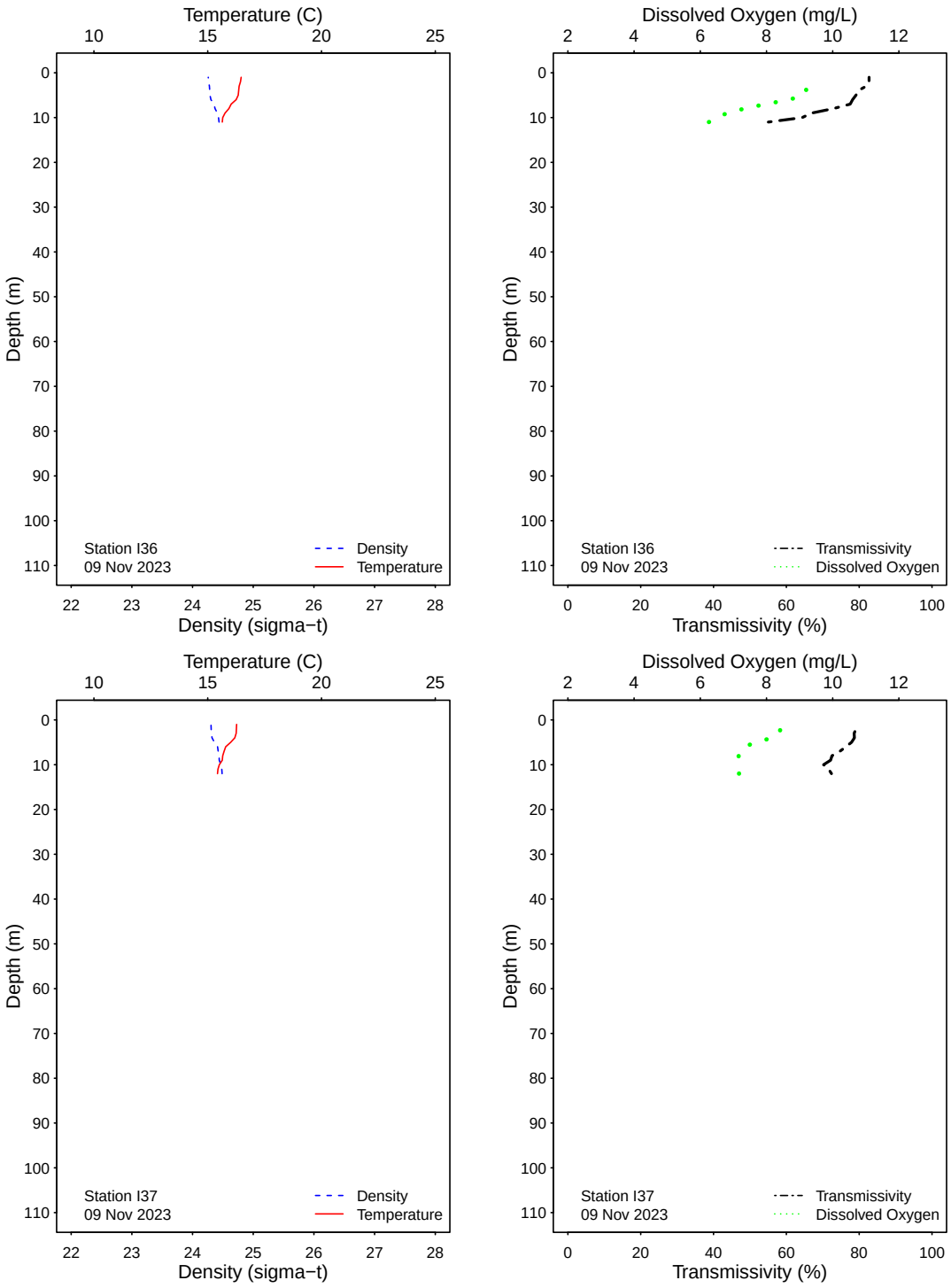

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

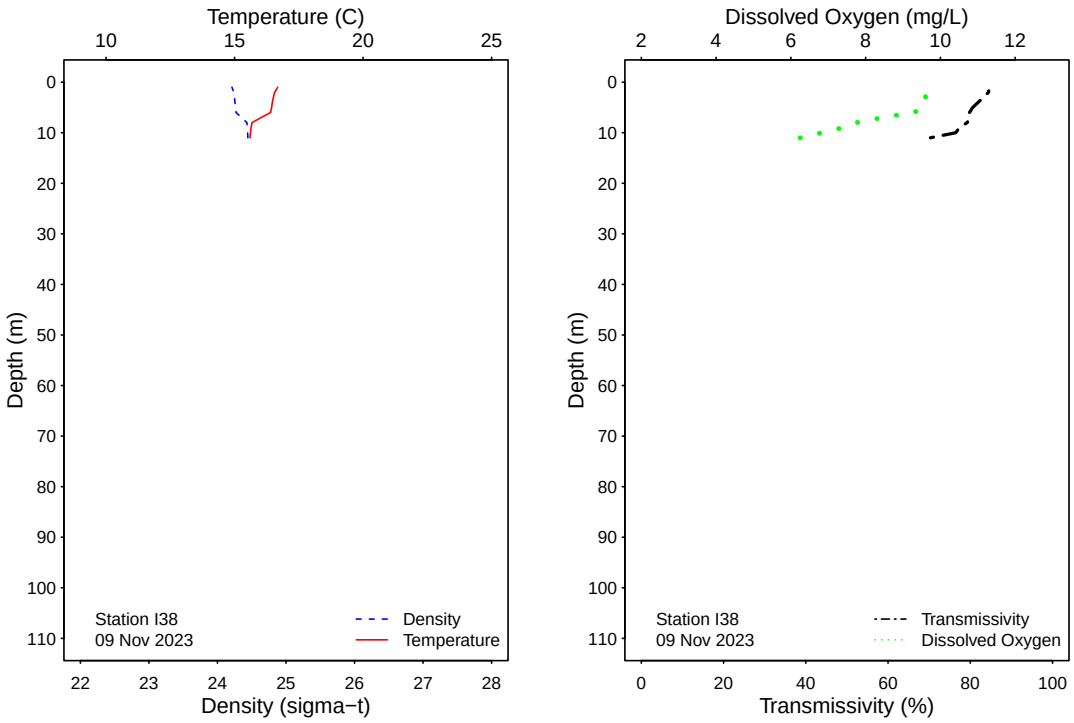

Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected 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
I3	07 Nov 2023	18	KT	LAB DUPLICATE	<2	<2	<2
I8	07 Nov 2023	37	KT	LAB DUPLICATE	<2	<2	<2
I9	07 Nov 2023	27	KT	LAB DUPLICATE	<2	<2	<2
I12	08 Nov 2023	18	CRE	LAB DUPLICATE	80e	12e	16e
I13	08 Nov 2023	18	CRE	LAB DUPLICATE	<2	<2	<2
I16	08 Nov 2023	18	CRE	LAB DUPLICATE	800e	280e	40
I19	06 Nov 2023	6	JF	LAB DUPLICATE	14e	<2	6e
I19	13 Nov 2023	6	KA	LAB DUPLICATE	460	22e	44
I19	21 Nov 2023	6	JF	LAB DUPLICATE	>16000	5400	<720
I19	28 Nov 2023	6	WT	LAB DUPLICATE	120e	6e	14e
I30	09 Nov 2023	27	CRE	LAB DUPLICATE	<2	<2	<2
I36	09 Nov 2023	11	CRE	FIELD DUPLICATE	<2	2e	<2
I36	09 Nov 2023	11	CRE	LAB DUPLICATE	4e	<2	<2
I40	06 Nov 2023	6	JF	LAB DUPLICATE	2000e	420	120e
I40	13 Nov 2023	6	KA	LAB DUPLICATE	40e	100	58
I40	21 Nov 2023	6	JF	LAB DUPLICATE	7800	680	76
I40	28 Nov 2023	6	WT	LAB DUPLICATE	5400	740	160e
S12	07 Nov 2023		KT	FIELD DUPLICATE	<20	<2	<2
S12	07 Nov 2023		KT	LAB DUPLICATE	4e	<2	2e
S12	14 Nov 2023		WT	FIELD DUPLICATE	<20	2e	8e
S12	14 Nov 2023		WT	LAB DUPLICATE	<20	<2	<2
S12	21 Nov 2023		WT	FIELD DUPLICATE	20e	2e	<2
S12	21 Nov 2023		WT	LAB DUPLICATE	<20	<2	2e
S12	28 Nov 2023		WT	FIELD DUPLICATE	12000	620	68
S12	28 Nov 2023		WT	LAB DUPLICATE	800	600	110

ns = not sampled
ND = no data

This page intentionally left blank