



# **SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT**

## **SOUTH BAY WATER RECLAMATION PLANT**

NPDES Permit No. CA0109045  
SDRWQCB Order No. R9-2013-0006

## **AUGUST 2021**

Environmental Monitoring and Technical Services  
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**Public Utilities Department**

Environmental Monitoring and Technical Services Division

September 31, 2021

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 August 2021 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,

A handwritten signature in blue ink, appearing to read "Peter S. Vroom".

Peter S. Vroom, Ph.D.  
Deputy Public Utilities Director

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  $\geq$  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)<sup>1</sup>. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

Results of the bacteriological analysis of seawater samples collected from each of the shore, kelp bed, and offshore stations located within State waters are assessed relative to the water-contact standards specified in the 2019 California Ocean Plan (Ocean Plan). The six standards are defined as follows:

#### **Water-Contact Objectives**

##### **Fecal coliform:**

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

##### ***Enterococci:***

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

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<sup>1</sup> 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<sup>2</sup>) 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 2021 Quality Assurance Report, which will be completed in March 2022.

## 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 August, four 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 median standard for total coliforms was exceeded at stations S5, S6, S9, S11, S12.
- Nothing of sewage origin was observed at any of the shore stations.
- 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

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

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 August 2, 9, 17, 24, and 31.
- During August, two of the seven kelp bed stations were out of compliance with various 2019 Ocean Plan water contact standards on one or more days as follows:
  - The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations I19 and I39.
  - The STV standard for total coliforms was exceeded at stations I19 and I39.
- Water column temperatures ranged from 11.86 to 21.06°C. The difference between surface and bottom waters ranged from 2.77 to 6.68°C.
- Concentrations of chlorophyll *a* ranged from 0.62 to 9.63 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of the kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., August 3, 4, and 5).
- During August, all of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant 2019 Ocean Plan single sample maximum (SSM) standard for fecal coliforms.
- Water column temperatures ranged from 10.86 to 18.21°C at the offshore sites. The difference between surface and bottom waters ranged from 2.17 to 6.44°C.
- Chlorophyll *a* concentrations ranged from 0.35 to 23.46 µg/L at the offshore sites.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.



## TABLES AND FIGURES





**Figure 1.1** Station Map



# 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 Aug 2021	9	4	2	4	5	5	4	13
02 Aug 2021	9	4	2	4	5	5	4	13
03 Aug 2021	7	3	2	3	4	4	4	11
04 Aug 2021	7	3	2	3	4	4	4	11
05 Aug 2021	9	4	2	2	5	5	5	10
06 Aug 2021	9	4	2	2	5	5	5	10
07 Aug 2021	9	4	2	2	5	5	5	10
08 Aug 2021	9	4	2	2	5	5	5	10
09 Aug 2021	9	4	2	2	5	5	5	10
10 Aug 2021	9	4	3	2	8	5	7	7
11 Aug 2021	9	4	3	2	8	5	7	7
12 Aug 2021	8	2	4	2	6	4	6	10
13 Aug 2021	8	2	4	2	6	4	6	10
14 Aug 2021	8	2	4	2	6	4	6	10
15 Aug 2021	8	2	4	2	6	4	6	10
16 Aug 2021	8	2	4	2	6	4	6	10
17 Aug 2021	7	3	3	2	8	3	7	7
18 Aug 2021	7	3	3	2	8	3	7	7
19 Aug 2021	6	3	4	2	11	3	9	8
20 Aug 2021	6	3	4	2	11	3	9	8
21 Aug 2021	6	3	4	2	11	3	9	8
22 Aug 2021	6	3	4	2	11	3	9	8
23 Aug 2021	6	3	4	2	11	3	9	8
24 Aug 2021	5	3	3	2	12	3	7	8
25 Aug 2021	5	3	3	2	12	3	7	8
26 Aug 2021	4	3	3	2	13	2	6	4
27 Aug 2021	4	3	3	2	13	2	6	4
28 Aug 2021	4	3	3	2	13	2	6	4
29 Aug 2021	4	3	3	2	13	2	6	4
30 Aug 2021	4	3	3	2	13	2	6	4
31 Aug 2021	3	3	3	2	9	2	5	3

\* 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
03 Aug 2021	IC	IC	IC	IC	IC	IC	IC	IC
10 Aug 2021	IC	IC	IC	IC	IC	IC	IC	IC
17 Aug 2021	IC	IC	IC	IC	IC	IC	IC	IC
24 Aug 2021	IC	IC	IC	IC	IC	IC	IC	IC
31 Aug 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.3**

Summary of compliance with the Ocean Plan's 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 Aug 2021	7	7	5	2	6	6	5	4
02 Aug 2021	7	7	5	2	6	6	5	4
03 Aug 2021	6	7	5	2	5	5	5	3
04 Aug 2021	6	7	5	2	5	5	5	3
05 Aug 2021	6	7	5	2	5	5	5	3
06 Aug 2021	6	7	5	2	5	5	5	3
07 Aug 2021	6	7	5	2	5	5	5	3
08 Aug 2021	6	7	5	2	5	5	5	3
09 Aug 2021	6	7	5	2	5	5	5	3
10 Aug 2021	7	8	5	2	9	6	5	3
11 Aug 2021	7	8	5	2	9	6	5	3
12 Aug 2021	7	8	5	2	9	6	5	3
13 Aug 2021	7	8	5	2	9	6	5	3
14 Aug 2021	7	8	5	2	9	6	5	3
15 Aug 2021	7	8	5	2	9	6	5	3
16 Aug 2021	7	8	5	2	9	6	5	3
17 Aug 2021	10	10	5	2	9	6	5	3
18 Aug 2021	10	10	5	2	9	6	5	3
19 Aug 2021	10	10	5	2	9	6	5	3
20 Aug 2021	10	10	5	2	9	6	5	3
21 Aug 2021	10	10	5	2	9	6	5	3
22 Aug 2021	10	10	5	2	9	6	5	3
23 Aug 2021	10	10	5	2	9	6	5	3
24 Aug 2021	6	5	3	2	8	3	3	3
25 Aug 2021	6	5	3	2	8	3	3	3
26 Aug 2021	6	5	3	2	8	3	3	3
27 Aug 2021	6	5	3	2	8	3	3	3
28 Aug 2021	6	5	3	2	8	3	3	3
29 Aug 2021	6	5	3	2	8	3	3	3
30 Aug 2021	6	5	3	2	8	3	3	3
31 Aug 2021	5	5	3	2	10	3	3	3

\* 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
August	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 2.5**

Summary of compliance with the Ocean Plan's 30-day 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 Aug 2021	70	30	50	20	<b>200</b>	60	<b>80</b>	20
02 Aug 2021	70	30	50	20	<b>200</b>	60	<b>80</b>	20
03 Aug 2021	20	20	20	20	<b>200</b>	20	20	20
04 Aug 2021	20	20	20	20	<b>200</b>	20	20	20
05 Aug 2021	70	30	50	20	<b>110</b>	60	<b>80</b>	20
06 Aug 2021	70	30	50	20	<b>110</b>	60	<b>80</b>	20
07 Aug 2021	70	30	50	20	<b>110</b>	60	<b>80</b>	20
08 Aug 2021	70	30	50	20	<b>110</b>	60	<b>80</b>	20
09 Aug 2021	70	30	50	20	<b>110</b>	60	<b>80</b>	20
10 Aug 2021	40	40	<b>80</b>	20	40	60	<b>120</b>	20
11 Aug 2021	40	40	<b>80</b>	20	40	60	<b>120</b>	20
12 Aug 2021	30	30	50	20	30	40	70	30
13 Aug 2021	30	30	50	20	30	40	70	30
14 Aug 2021	30	30	50	20	30	40	70	30
15 Aug 2021	30	30	50	20	30	40	70	30
16 Aug 2021	30	30	50	20	30	40	70	30
17 Aug 2021	40	40	20	20	20	20	20	40
18 Aug 2021	40	40	20	20	20	20	20	40
19 Aug 2021	40	<b>120</b>	50	20	30	40	70	<b>120</b>
20 Aug 2021	40	<b>120</b>	50	20	30	40	70	<b>120</b>
21 Aug 2021	40	<b>120</b>	50	20	30	40	70	<b>120</b>
22 Aug 2021	40	<b>120</b>	50	20	30	40	70	<b>120</b>
23 Aug 2021	40	<b>120</b>	50	20	30	40	70	<b>120</b>
24 Aug 2021	40	40	20	20	40	20	20	<b>200</b>
25 Aug 2021	40	40	20	20	40	20	20	<b>200</b>
26 Aug 2021	30	<b>110</b>	20	20	30	20	20	<b>120</b>
27 Aug 2021	30	<b>110</b>	20	20	30	20	20	<b>120</b>
28 Aug 2021	30	<b>110</b>	20	20	30	20	20	<b>120</b>
29 Aug 2021	30	<b>110</b>	20	20	30	20	20	<b>120</b>
30 Aug 2021	30	<b>110</b>	20	20	30	20	20	<b>120</b>
31 Aug 2021	40	22	20	20	20	20	20	40

\* 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
August	IC	IC	IC	IC	IC	IC	IC	IC

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	03 Aug 2021	1118	2200e	680	260e
S0	10 Aug 2021	900	100e	20e	20e
S0	17 Aug 2021	1105	>16000	1600e	110
S0	24 Aug 2021	1130	10000	4600	900
S0	31 Aug 2021	915	800e	180e	220e
S2	03 Aug 2021	1015	<2	<2	<2
S2	10 Aug 2021	1015	<20	2e	10e
S2	17 Aug 2021	1150	2e	<2	2e
S2	24 Aug 2021	1015	40e	<2	<2
S2	31 Aug 2021	1010	620	26e	86
S3	03 Aug 2021	1040	20e	<2	<2
S3	10 Aug 2021	935	20e	<2	18e
S3	17 Aug 2021	1020	140e	10e	16e
S3	24 Aug 2021	1030	<20	<2	4e
S3	31 Aug 2021	940	1400e	12e	26e
S4	03 Aug 2021	1116	<20	<2	2e
S4	10 Aug 2021	943	40e	10e	10e
S4	17 Aug 2021	1118	40e	6e	18e
S4	24 Aug 2021	1112	20e	2e	<2
S4	31 Aug 2021	1117	54	<2	<2
S5	03 Aug 2021	957	<20	2e	<2
S5	10 Aug 2021	806	<200	4e	46
S5	17 Aug 2021	927	<200	4e	6e
S5	24 Aug 2021	948	20e	<2	<2
S5	31 Aug 2021	954	22e	2e	2e
S6	03 Aug 2021	1026	<20	<2	<2
S6	10 Aug 2021	828	120e	10e	20e
S6	17 Aug 2021	957	<20	2e	<2
S6	24 Aug 2021	1011	<20	<2	<2
S6	31 Aug 2021	1024	<2	<2	<2
S8	03 Aug 2021	903	<20	<2	2e
S8	10 Aug 2021	1028	4e	<2	2e
S8	17 Aug 2021	841	<20	<2	<2
S8	24 Aug 2021	849	<20	<2	<2
S8	31 Aug 2021	857	2e	<2	<2
S9	03 Aug 2021	831	20e	2e	<2
S9	10 Aug 2021	1053	40e	36e	92
S9	17 Aug 2021	809	<20	<20	2e
S9	24 Aug 2021	819	<200	<20	30e
S9	31 Aug 2021	825	20e	2e	6e
S10	03 Aug 2021	1137	<20	<2	2e
S10	10 Aug 2021	936	60e	4e	6e
S10	17 Aug 2021	1048	20e	2e	<2
S10	24 Aug 2021	1058	<20	<2	<2
S10	31 Aug 2021	1147	4e	2e	<2

<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Total</b>	<b>Fecal</b>	<b>Enteric</b>
S11	03 Aug 2021	1013	<20	6e	<2
S11	10 Aug 2021	817	120e	16e	24e
S11	17 Aug 2021	945	<20	8e	<2
S11	24 Aug 2021	1004	<20	<2	<2
S11	31 Aug 2021	1012	4e	2e	<2
S12	03 Aug 2021	929	20e	6e	2e
S12	10 Aug 2021	848	40e	<2	2e
S12	17 Aug 2021	902	<200	2e	2e
S12	24 Aug 2021	924	<200	8e	<2
S12	31 Aug 2021	923	<20	2e	2e

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	03 Aug 2021	Arrive Time	1118
S0	03 Aug 2021	Weather	Sunny
S0	03 Aug 2021	Wind Speed (kts)	3.8
S0	03 Aug 2021	Wind Dir	N
S0	03 Aug 2021	Animal Life	Bird-15; Dog-1
S0	03 Aug 2021	Floatables	None
S0	03 Aug 2021	Water Color	Green
S0	03 Aug 2021	Current Direction	N
S0	03 Aug 2021	Water Temp (C)	15
S0	03 Aug 2021	Wave Height Low (ft)	3
S0	03 Aug 2021	High Tide (ft)	3.25
S0	03 Aug 2021	High Tide Time	809
S0	03 Aug 2021	Low Tide (ft)	0.7
S0	03 Aug 2021	Low Tide Time	130
S0	03 Aug 2021	Comments	Kelp; 1L/sec water flowing from storm drain
S0	10 Aug 2021	Arrive Time	900
S0	10 Aug 2021	Weather	Partly cloudy
S0	10 Aug 2021	Wind Speed (kts)	3.4
S0	10 Aug 2021	Wind Dir	NE
S0	10 Aug 2021	Animal Life	Bird-20; Dog-2
S0	10 Aug 2021	Floatables	None
S0	10 Aug 2021	Water Color	Green
S0	10 Aug 2021	Current Direction	N
S0	10 Aug 2021	Water Temp (C)	19
S0	10 Aug 2021	Wave Height Low (ft)	3
S0	10 Aug 2021	High Tide (ft)	4.41
S0	10 Aug 2021	High Tide Time	1130
S0	10 Aug 2021	Low Tide (ft)	-0.51
S0	10 Aug 2021	Low Tide Time	514
S0	10 Aug 2021	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2; 0.5 L/sec water flowing from storm drain
S0	17 Aug 2021	Arrive Time	1105
S0	17 Aug 2021	Weather	Cloudy
S0	17 Aug 2021	Wind Speed (kts)	4.2
S0	17 Aug 2021	Wind Dir	N
S0	17 Aug 2021	Animal Life	Bird-15; Dolphin-2
S0	17 Aug 2021	Floatables	None
S0	17 Aug 2021	Water Color	Green
S0	17 Aug 2021	Current Direction	N
S0	17 Aug 2021	Water Temp (C)	16
S0	17 Aug 2021	Wave Height Low (ft)	3
S0	17 Aug 2021	High Tide (ft)	3.27
S0	17 Aug 2021	High Tide Time	653
S0	17 Aug 2021	Low Tide (ft)	0.33
S0	17 Aug 2021	Low Tide Time	17
S0	17 Aug 2021	Comments	Kelp; 0.5 L/sec water flowing from storm drain
S0	24 Aug 2021	Arrive Time	1130
S0	24 Aug 2021	Weather	Sunny
S0	24 Aug 2021	Wind Speed (kts)	2.8
S0	24 Aug 2021	Wind Dir	N
S0	24 Aug 2021	Animal Life	Bird-10
S0	24 Aug 2021	Floatables	None
S0	24 Aug 2021	Water Color	Green

Station	Date	Parameter	Value
S0	24 Aug 2021	Current Direction	N
S0	24 Aug 2021	Water Temp (C)	15
S0	24 Aug 2021	Wave Height Low (ft)	3
S0	24 Aug 2021	High Tide (ft)	4.79
S0	24 Aug 2021	High Tide Time	1118
S0	24 Aug 2021	Low Tide (ft)	-0.23
S0	24 Aug 2021	Low Tide Time	509
S0	24 Aug 2021	Comments	Kelp; 1 L/sec water flowing from storm drain
S0	31 Aug 2021	Arrive Time	915
S0	31 Aug 2021	Weather	Cloudy
S0	31 Aug 2021	Wind Speed (kts)	2.1
S0	31 Aug 2021	Wind Dir	NE
S0	31 Aug 2021	Animal Life	Bird-20; Dog-2
S0	31 Aug 2021	Floatables	None
S0	31 Aug 2021	Water Color	Green
S0	31 Aug 2021	Current Direction	N
S0	31 Aug 2021	Water Temp (C)	16
S0	31 Aug 2021	Wave Height Low (ft)	3
S0	31 Aug 2021	High Tide (ft)	3.24
S0	31 Aug 2021	High Tide Time	749
S0	31 Aug 2021	Low Tide (ft)	1.23
S0	31 Aug 2021	Low Tide Time	5
S0	31 Aug 2021	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-2; 0.5 L/sec water flowing from storm drain
S2	03 Aug 2021	Arrive Time	1015
S2	03 Aug 2021	Weather	Cloudy
S2	03 Aug 2021	Wind Speed (kts)	2.9
S2	03 Aug 2021	Wind Dir	N
S2	03 Aug 2021	Animal Life	Bird-15
S2	03 Aug 2021	Floatables	None
S2	03 Aug 2021	Water Color	Grey
S2	03 Aug 2021	Current Direction	N
S2	03 Aug 2021	Water Temp (C)	15
S2	03 Aug 2021	Wave Height Low (ft)	3
S2	03 Aug 2021	High Tide (ft)	3.25
S2	03 Aug 2021	High Tide Time	809
S2	03 Aug 2021	Low Tide (ft)	0.7
S2	03 Aug 2021	Low Tide Time	130
S2	03 Aug 2021	Comments	Kelp; No flow from storm drain
S2	10 Aug 2021	Arrive Time	1015
S2	10 Aug 2021	Weather	Cloudy
S2	10 Aug 2021	Wind Speed (kts)	3.2
S2	10 Aug 2021	Wind Dir	NE
S2	10 Aug 2021	Animal Life	Bird-20; Dog-6; dead seal -1
S2	10 Aug 2021	Floatables	None
S2	10 Aug 2021	Water Color	Green
S2	10 Aug 2021	Current Direction	N
S2	10 Aug 2021	Water Temp (C)	19
S2	10 Aug 2021	Wave Height Low (ft)	3
S2	10 Aug 2021	High Tide (ft)	4.41
S2	10 Aug 2021	High Tide Time	1130
S2	10 Aug 2021	Low Tide (ft)	-0.51
S2	10 Aug 2021	Low Tide Time	514
S2	10 Aug 2021	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S2	17 Aug 2021	Arrive Time	950
S2	17 Aug 2021	Weather	Cloudy

Station	Date	Parameter	Value
S2	17 Aug 2021	Wind Speed (kts)	3.1
S2	17 Aug 2021	Wind Dir	N
S2	17 Aug 2021	Animal Life	Bird-15; Dolphin-2
S2	17 Aug 2021	Floatables	None
S2	17 Aug 2021	Water Color	Green
S2	17 Aug 2021	Current Direction	N
S2	17 Aug 2021	Water Temp (C)	16
S2	17 Aug 2021	Wave Height Low (ft)	3
S2	17 Aug 2021	High Tide (ft)	3.27
S2	17 Aug 2021	High Tide Time	653
S2	17 Aug 2021	Low Tide (ft)	0.33
S2	17 Aug 2021	Low Tide Time	17
S2	17 Aug 2021	Comments	Kelp; No flow from storm drain
S2	24 Aug 2021	Arrive Time	1015
S2	24 Aug 2021	Weather	Sunny
S2	24 Aug 2021	Wind Speed (kts)	2.4
S2	24 Aug 2021	Wind Dir	N
S2	24 Aug 2021	Animal Life	Bird-15; Dog-2
S2	24 Aug 2021	Floatables	None
S2	24 Aug 2021	Water Color	Green
S2	24 Aug 2021	Current Direction	N
S2	24 Aug 2021	Water Temp (C)	15
S2	24 Aug 2021	Wave Height Low (ft)	3
S2	24 Aug 2021	High Tide (ft)	4.79
S2	24 Aug 2021	High Tide Time	1118
S2	24 Aug 2021	Low Tide (ft)	-0.23
S2	24 Aug 2021	Low Tide Time	509
S2	24 Aug 2021	Comments	Water turbid; Trash-0; Kelp; Person/Walker/Jogger-1; No flow from storm drain
S2	31 Aug 2021	Arrive Time	1010
S2	31 Aug 2021	Weather	Cloudy
S2	31 Aug 2021	Wind Speed (kts)	3
S2	31 Aug 2021	Wind Dir	NE
S2	31 Aug 2021	Animal Life	Bird-10; Dog-3
S2	31 Aug 2021	Floatables	None
S2	31 Aug 2021	Water Color	Green
S2	31 Aug 2021	Current Direction	N
S2	31 Aug 2021	Water Temp (C)	16
S2	31 Aug 2021	Wave Height Low (ft)	3
S2	31 Aug 2021	High Tide (ft)	3.24
S2	31 Aug 2021	High Tide Time	749
S2	31 Aug 2021	Low Tide (ft)	1.23
S2	31 Aug 2021	Low Tide Time	5
S2	31 Aug 2021	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-10; No flow from storm drain
S3	03 Aug 2021	Arrive Time	1040
S3	03 Aug 2021	Weather	Sunny
S3	03 Aug 2021	Wind Speed (kts)	3.2
S3	03 Aug 2021	Wind Dir	N
S3	03 Aug 2021	Animal Life	Bird-15; Dog-1
S3	03 Aug 2021	Floatables	None
S3	03 Aug 2021	Water Color	Green
S3	03 Aug 2021	Current Direction	N
S3	03 Aug 2021	Water Temp (C)	15
S3	03 Aug 2021	Wave Height Low (ft)	3
S3	03 Aug 2021	High Tide (ft)	3.25
S3	03 Aug 2021	High Tide Time	809
S3	03 Aug 2021	Low Tide (ft)	0.7

Station	Date	Parameter	Value
S3	03 Aug 2021	Low Tide Time	130
S3	03 Aug 2021	Comments	Water turbid; Surfer/Paddle boarder-1; Trash-0; Kelp; No flow from storm drain
S3	10 Aug 2021	Arrive Time	935
S3	10 Aug 2021	Weather	Cloudy
S3	10 Aug 2021	Wind Speed (kts)	3.6
S3	10 Aug 2021	Wind Dir	NE
S3	10 Aug 2021	Animal Life	Bird-20; Dog-7
S3	10 Aug 2021	Floatables	None
S3	10 Aug 2021	Water Color	Green
S3	10 Aug 2021	Current Direction	N
S3	10 Aug 2021	Water Temp (C)	19
S3	10 Aug 2021	Wave Height Low (ft)	3
S3	10 Aug 2021	High Tide (ft)	4.41
S3	10 Aug 2021	High Tide Time	1130
S3	10 Aug 2021	Low Tide (ft)	-0.51
S3	10 Aug 2021	Low Tide Time	514
S3	10 Aug 2021	Comments	Water clear; Trash-0; Algae; Person/Walker/Jogger-10; 0.5 L/sec water flowing from storm drain
S3	17 Aug 2021	Arrive Time	1020
S3	17 Aug 2021	Weather	Cloudy
S3	17 Aug 2021	Wind Speed (kts)	3.3
S3	17 Aug 2021	Wind Dir	N
S3	17 Aug 2021	Animal Life	Bird-15; Dog-3
S3	17 Aug 2021	Floatables	None
S3	17 Aug 2021	Water Color	Green
S3	17 Aug 2021	Current Direction	N
S3	17 Aug 2021	Water Temp (C)	16
S3	17 Aug 2021	Wave Height Low (ft)	3
S3	17 Aug 2021	High Tide (ft)	3.27
S3	17 Aug 2021	High Tide Time	653
S3	17 Aug 2021	Low Tide (ft)	0.33
S3	17 Aug 2021	Low Tide Time	17
S3	17 Aug 2021	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-0; Kelp; Person/Walker/Jogger-5; No flow from storm drain
S3	24 Aug 2021	Arrive Time	1030
S3	24 Aug 2021	Weather	Sunny
S3	24 Aug 2021	Wind Speed (kts)	3.3
S3	24 Aug 2021	Wind Dir	N
S3	24 Aug 2021	Animal Life	Bird-15
S3	24 Aug 2021	Floatables	None
S3	24 Aug 2021	Water Color	Green
S3	24 Aug 2021	Current Direction	N
S3	24 Aug 2021	Water Temp (C)	15
S3	24 Aug 2021	Wave Height Low (ft)	3
S3	24 Aug 2021	High Tide (ft)	4.79
S3	24 Aug 2021	High Tide Time	1118
S3	24 Aug 2021	Low Tide (ft)	-0.23
S3	24 Aug 2021	Low Tide Time	509
S3	24 Aug 2021	Comments	Water turbid; Trash-0; Kelp; Person/Walker/Jogger-2; 0.5 L/sec water flowing from storm drain
S3	31 Aug 2021	Arrive Time	940
S3	31 Aug 2021	Weather	Cloudy
S3	31 Aug 2021	Wind Speed (kts)	2.5
S3	31 Aug 2021	Wind Dir	NE
S3	31 Aug 2021	Animal Life	Bird-10; Dog-2; Dolphin-1
S3	31 Aug 2021	Floatables	None

Station	Date	Parameter	Value
S3	31 Aug 2021	Water Color	Green
S3	31 Aug 2021	Current Direction	N
S3	31 Aug 2021	Water Temp (C)	16
S3	31 Aug 2021	Wave Height Low (ft)	3
S3	31 Aug 2021	High Tide (ft)	3.24
S3	31 Aug 2021	High Tide Time	749
S3	31 Aug 2021	Low Tide (ft)	1.23
S3	31 Aug 2021	Low Tide Time	5
S3	31 Aug 2021	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-20; 0.5 L/sec water flowing from storm drain
S4	03 Aug 2021	Arrive Time	1116
S4	03 Aug 2021	Weather	Sunny
S4	03 Aug 2021	Wind Speed (kts)	3.3
S4	03 Aug 2021	Wind Dir	W
S4	03 Aug 2021	Animal Life	Bird-25; Seagull-10
S4	03 Aug 2021	Floatables	None
S4	03 Aug 2021	Water Color	Green
S4	03 Aug 2021	Current Direction	S
S4	03 Aug 2021	Water Temp (C)	16.9
S4	03 Aug 2021	Wave Height Low (ft)	3
S4	03 Aug 2021	High Tide (ft)	3.25
S4	03 Aug 2021	High Tide Time	809
S4	03 Aug 2021	Low Tide (ft)	0.7
S4	03 Aug 2021	Low Tide Time	130
S4	03 Aug 2021	Comments	Water clear; Trash-2; Kelp; Seagrass; Debris; Person/Walker/Jogger-1
S4	10 Aug 2021	Arrive Time	943
S4	10 Aug 2021	Weather	Cloudy
S4	10 Aug 2021	Wind Speed (kts)	4.1
S4	10 Aug 2021	Wind Dir	W
S4	10 Aug 2021	Animal Life	Dolphin-1; Seagull-40
S4	10 Aug 2021	Floatables	Foam
S4	10 Aug 2021	Water Color	Green
S4	10 Aug 2021	Current Direction	
S4	10 Aug 2021	Water Temp (C)	20.6
S4	10 Aug 2021	Wave Height Low (ft)	2
S4	10 Aug 2021	High Tide (ft)	4.41
S4	10 Aug 2021	High Tide Time	1130
S4	10 Aug 2021	Low Tide (ft)	-0.51
S4	10 Aug 2021	Low Tide Time	514
S4	10 Aug 2021	Comments	Kelp; Seagrass
S4	17 Aug 2021	Arrive Time	1118
S4	17 Aug 2021	Weather	Overcast
S4	17 Aug 2021	Wind Speed (kts)	6.3
S4	17 Aug 2021	Wind Dir	SW
S4	17 Aug 2021	Animal Life	None
S4	17 Aug 2021	Floatables	Foam; Film
S4	17 Aug 2021	Water Color	
S4	17 Aug 2021	Current Direction	N
S4	17 Aug 2021	Water Temp (C)	22
S4	17 Aug 2021	Wave Height Low (ft)	4
S4	17 Aug 2021	High Tide (ft)	3.27
S4	17 Aug 2021	High Tide Time	653
S4	17 Aug 2021	Low Tide (ft)	0.33
S4	17 Aug 2021	Low Tide Time	17
S4	17 Aug 2021	Comments	Water clear; Kelp; Seagrass; Trash-2
S4	24 Aug 2021	Arrive Time	1112

Station	Date	Parameter	Value
S4	24 Aug 2021	Weather	Sunny
S4	24 Aug 2021	Wind Speed (kts)	3.6
S4	24 Aug 2021	Wind Dir	W
S4	24 Aug 2021	Animal Life	Bird-200; Seagull-50
S4	24 Aug 2021	Floatables	Foam; Film
S4	24 Aug 2021	Water Color	Green
S4	24 Aug 2021	Current Direction	S
S4	24 Aug 2021	Water Temp (C)	19.6
S4	24 Aug 2021	Wave Height Low (ft)	3
S4	24 Aug 2021	High Tide (ft)	4.79
S4	24 Aug 2021	High Tide Time	1118
S4	24 Aug 2021	Low Tide (ft)	-0.23
S4	24 Aug 2021	Low Tide Time	509
S4	24 Aug 2021	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-1
S4	31 Aug 2021	Arrive Time	1117
S4	31 Aug 2021	Weather	Overcast
S4	31 Aug 2021	Wind Speed (kts)	3.6
S4	31 Aug 2021	Wind Dir	SW
S4	31 Aug 2021	Animal Life	Bird-2; Dolphin-2; Horse-7
S4	31 Aug 2021	Floatables	None
S4	31 Aug 2021	Water Color	Green
S4	31 Aug 2021	Current Direction	N
S4	31 Aug 2021	Water Temp (C)	20.8
S4	31 Aug 2021	Wave Height Low (ft)	4
S4	31 Aug 2021	High Tide (ft)	3.24
S4	31 Aug 2021	High Tide Time	749
S4	31 Aug 2021	Low Tide (ft)	1.23
S4	31 Aug 2021	Low Tide Time	5
S4	31 Aug 2021	Comments	Water turbid; Trash-2; Kelp; Seagrass; Algae; Debris; Person/Walker/Jogger-7
S5	03 Aug 2021	Arrive Time	957
S5	03 Aug 2021	Weather	Foggy
S5	03 Aug 2021	Wind Speed (kts)	6.6
S5	03 Aug 2021	Wind Dir	NW
S5	03 Aug 2021	Animal Life	Bird-1; Dog-2
S5	03 Aug 2021	Floatables	None
S5	03 Aug 2021	Water Color	Green
S5	03 Aug 2021	Current Direction	S
S5	03 Aug 2021	Water Temp (C)	16.1
S5	03 Aug 2021	Wave Height Low (ft)	3
S5	03 Aug 2021	High Tide (ft)	3.25
S5	03 Aug 2021	High Tide Time	809
S5	03 Aug 2021	Low Tide (ft)	0.7
S5	03 Aug 2021	Low Tide Time	130
S5	03 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-5
S5	10 Aug 2021	Arrive Time	806
S5	10 Aug 2021	Weather	Cloudy
S5	10 Aug 2021	Wind Speed (kts)	2.4
S5	10 Aug 2021	Wind Dir	W
S5	10 Aug 2021	Animal Life	Bird-5; Pelican-100; Seagull-20
S5	10 Aug 2021	Floatables	Foam
S5	10 Aug 2021	Water Color	Brown
S5	10 Aug 2021	Current Direction	N
S5	10 Aug 2021	Water Temp (C)	22.8
S5	10 Aug 2021	Wave Height Low (ft)	1
S5	10 Aug 2021	High Tide (ft)	4.41

Station	Date	Parameter	Value
S5	10 Aug 2021	High Tide Time	1130
S5	10 Aug 2021	Low Tide (ft)	-0.51
S5	10 Aug 2021	Low Tide Time	514
S5	10 Aug 2021	Comments	Kelp; Seagrass; Debris
S5	17 Aug 2021	Arrive Time	927
S5	17 Aug 2021	Weather	Overcast
S5	17 Aug 2021	Wind Speed (kts)	5.2
S5	17 Aug 2021	Wind Dir	W
S5	17 Aug 2021	Animal Life	Dolphin-8
S5	17 Aug 2021	Floatables	None
S5	17 Aug 2021	Water Color	Green
S5	17 Aug 2021	Current Direction	N
S5	17 Aug 2021	Water Temp (C)	22.2
S5	17 Aug 2021	Wave Height Low (ft)	4
S5	17 Aug 2021	High Tide (ft)	3.27
S5	17 Aug 2021	High Tide Time	653
S5	17 Aug 2021	Low Tide (ft)	0.33
S5	17 Aug 2021	Low Tide Time	17
S5	17 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-2
S5	24 Aug 2021	Arrive Time	948
S5	24 Aug 2021	Weather	Partly cloudy
S5	24 Aug 2021	Wind Speed (kts)	5
S5	24 Aug 2021	Wind Dir	NW
S5	24 Aug 2021	Animal Life	
S5	24 Aug 2021	Floatables	None
S5	24 Aug 2021	Water Color	Green
S5	24 Aug 2021	Current Direction	S
S5	24 Aug 2021	Water Temp (C)	20
S5	24 Aug 2021	Wave Height Low (ft)	1
S5	24 Aug 2021	High Tide (ft)	4.79
S5	24 Aug 2021	High Tide Time	1118
S5	24 Aug 2021	Low Tide (ft)	-0.23
S5	24 Aug 2021	Low Tide Time	509
S5	24 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-1
S5	31 Aug 2021	Arrive Time	954
S5	31 Aug 2021	Weather	Overcast
S5	31 Aug 2021	Wind Speed (kts)	6.9
S5	31 Aug 2021	Wind Dir	SW
S5	31 Aug 2021	Animal Life	Pelican-2; Seagull-8
S5	31 Aug 2021	Floatables	None
S5	31 Aug 2021	Water Color	Green
S5	31 Aug 2021	Current Direction	NW
S5	31 Aug 2021	Water Temp (C)	20.2
S5	31 Aug 2021	Wave Height Low (ft)	3
S5	31 Aug 2021	High Tide (ft)	3.24
S5	31 Aug 2021	High Tide Time	749
S5	31 Aug 2021	Low Tide (ft)	1.23
S5	31 Aug 2021	Low Tide Time	5
S5	31 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-4
S6	03 Aug 2021	Arrive Time	1026
S6	03 Aug 2021	Weather	Foggy
S6	03 Aug 2021	Wind Speed (kts)	4.4
S6	03 Aug 2021	Wind Dir	W
S6	03 Aug 2021	Animal Life	Bird-10

Station	Date	Parameter	Value
S6	03 Aug 2021	Floatables	None
S6	03 Aug 2021	Water Color	Green
S6	03 Aug 2021	Current Direction	S
S6	03 Aug 2021	Water Temp (C)	15.9
S6	03 Aug 2021	Wave Height Low (ft)	3
S6	03 Aug 2021	High Tide (ft)	3.25
S6	03 Aug 2021	High Tide Time	809
S6	03 Aug 2021	Low Tide (ft)	0.7
S6	03 Aug 2021	Low Tide Time	130
S6	03 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-1
S6	10 Aug 2021	Arrive Time	828
S6	10 Aug 2021	Weather	Cloudy
S6	10 Aug 2021	Wind Speed (kts)	2.5
S6	10 Aug 2021	Wind Dir	NW
S6	10 Aug 2021	Animal Life	Bird-8; Pelican-1; Seagull-1
S6	10 Aug 2021	Floatables	Foam
S6	10 Aug 2021	Water Color	Green
S6	10 Aug 2021	Current Direction	S
S6	10 Aug 2021	Water Temp (C)	20.2
S6	10 Aug 2021	Wave Height Low (ft)	2
S6	10 Aug 2021	High Tide (ft)	4.41
S6	10 Aug 2021	High Tide Time	1130
S6	10 Aug 2021	Low Tide (ft)	-0.51
S6	10 Aug 2021	Low Tide Time	514
S6	10 Aug 2021	Comments	Water turbid; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-4
S6	17 Aug 2021	Arrive Time	957, 1118
S6	17 Aug 2021	Weather	Overcast
S6	17 Aug 2021	Wind Speed (kts)	3.2, 6.3
S6	17 Aug 2021	Wind Dir	SW
S6	17 Aug 2021	Animal Life	Dog-1,
S6	17 Aug 2021	Floatables	Foam, Foam; Film
S6	17 Aug 2021	Water Color	Green
S6	17 Aug 2021	Current Direction	N
S6	17 Aug 2021	Water Temp (C)	22
S6	17 Aug 2021	Wave Height Low (ft)	4
S6	17 Aug 2021	High Tide (ft)	3.27
S6	17 Aug 2021	High Tide Time	653
S6	17 Aug 2021	Low Tide (ft)	0.33
S6	17 Aug 2021	Low Tide Time	17
S6	17 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2, Kelp; Seagrass
S6	24 Aug 2021	Arrive Time	1011
S6	24 Aug 2021	Weather	Sunny
S6	24 Aug 2021	Wind Speed (kts)	2.7
S6	24 Aug 2021	Wind Dir	NW
S6	24 Aug 2021	Animal Life	Dog-1
S6	24 Aug 2021	Floatables	Foam
S6	24 Aug 2021	Water Color	Green
S6	24 Aug 2021	Current Direction	S
S6	24 Aug 2021	Water Temp (C)	20.9
S6	24 Aug 2021	Wave Height Low (ft)	2
S6	24 Aug 2021	High Tide (ft)	4.79
S6	24 Aug 2021	High Tide Time	1118
S6	24 Aug 2021	Low Tide (ft)	-0.23
S6	24 Aug 2021	Low Tide Time	509

Station	Date	Parameter	Value
S6	24 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-3
S6	31 Aug 2021	Arrive Time	1024
S6	31 Aug 2021	Weather	Overcast
S6	31 Aug 2021	Wind Speed (kts)	4.5
S6	31 Aug 2021	Wind Dir	SW
S6	31 Aug 2021	Animal Life	
S6	31 Aug 2021	Floatables	None
S6	31 Aug 2021	Water Color	Green
S6	31 Aug 2021	Current Direction	NW
S6	31 Aug 2021	Water Temp (C)	20.2
S6	31 Aug 2021	Wave Height Low (ft)	4
S6	31 Aug 2021	High Tide (ft)	3.24
S6	31 Aug 2021	High Tide Time	749
S6	31 Aug 2021	Low Tide (ft)	1.23
S6	31 Aug 2021	Low Tide Time	5
S6	31 Aug 2021	Comments	Water turbid; Fisherperson-1; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-6
S8	03 Aug 2021	Arrive Time	903
S8	03 Aug 2021	Weather	Sunny
S8	03 Aug 2021	Wind Speed (kts)	4.6
S8	03 Aug 2021	Wind Dir	NW
S8	03 Aug 2021	Animal Life	
S8	03 Aug 2021	Floatables	None
S8	03 Aug 2021	Water Color	Green
S8	03 Aug 2021	Current Direction	S
S8	03 Aug 2021	Water Temp (C)	19.4
S8	03 Aug 2021	Wave Height Low (ft)	2
S8	03 Aug 2021	High Tide (ft)	3.25
S8	03 Aug 2021	High Tide Time	809
S8	03 Aug 2021	Low Tide (ft)	0.7
S8	03 Aug 2021	Low Tide Time	130
S8	03 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-13
S8	10 Aug 2021	Arrive Time	1028
S8	10 Aug 2021	Weather	Sunny
S8	10 Aug 2021	Wind Speed (kts)	8.8
S8	10 Aug 2021	Wind Dir	W
S8	10 Aug 2021	Animal Life	Bird-1; Seagull-2
S8	10 Aug 2021	Floatables	None
S8	10 Aug 2021	Water Color	Green
S8	10 Aug 2021	Current Direction	S
S8	10 Aug 2021	Water Temp (C)	23.1
S8	10 Aug 2021	Wave Height Low (ft)	1
S8	10 Aug 2021	High Tide (ft)	4.41
S8	10 Aug 2021	High Tide Time	1130
S8	10 Aug 2021	Low Tide (ft)	-0.51
S8	10 Aug 2021	Low Tide Time	514
S8	10 Aug 2021	Comments	Water turbid; Surfer/Paddle boarder-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-7
S8	17 Aug 2021	Arrive Time	841
S8	17 Aug 2021	Weather	Overcast
S8	17 Aug 2021	Wind Speed (kts)	2.9
S8	17 Aug 2021	Wind Dir	W
S8	17 Aug 2021	Animal Life	1 Seagull
S8	17 Aug 2021	Floatables	Foam
S8	17 Aug 2021	Water Color	Green

Station	Date	Parameter	Value
S8	17 Aug 2021	Current Direction	N
S8	17 Aug 2021	Water Temp (C)	21.8
S8	17 Aug 2021	Wave Height Low (ft)	1
S8	17 Aug 2021	High Tide (ft)	3.27
S8	17 Aug 2021	High Tide Time	653
S8	17 Aug 2021	Low Tide (ft)	0.33
S8	17 Aug 2021	Low Tide Time	17
S8	17 Aug 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 3 Persons
S8	24 Aug 2021	Arrive Time	849
S8	24 Aug 2021	Weather	Overcast
S8	24 Aug 2021	Wind Speed (kts)	0
S8	24 Aug 2021	Wind Dir	
S8	24 Aug 2021	Animal Life	Bird-1; Seagull-16;
S8	24 Aug 2021	Floatables	Foam
S8	24 Aug 2021	Water Color	Green
S8	24 Aug 2021	Current Direction	S
S8	24 Aug 2021	Water Temp (C)	19.4
S8	24 Aug 2021	Wave Height Low (ft)	1
S8	24 Aug 2021	High Tide (ft)	4.79
S8	24 Aug 2021	High Tide Time	1118
S8	24 Aug 2021	Low Tide (ft)	-0.23
S8	24 Aug 2021	Low Tide Time	509
S8	24 Aug 2021	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-1
S8	31 Aug 2021	Arrive Time	857
S8	31 Aug 2021	Weather	Overcast
S8	31 Aug 2021	Wind Speed (kts)	4.5
S8	31 Aug 2021	Wind Dir	SW
S8	31 Aug 2021	Animal Life	Bird-4; Dolphin-2; Pelican-1
S8	31 Aug 2021	Floatables	None
S8	31 Aug 2021	Water Color	Green
S8	31 Aug 2021	Current Direction	SW
S8	31 Aug 2021	Water Temp (C)	20.4
S8	31 Aug 2021	Wave Height Low (ft)	1
S8	31 Aug 2021	High Tide (ft)	3.24
S8	31 Aug 2021	High Tide Time	749
S8	31 Aug 2021	Low Tide (ft)	1.23
S8	31 Aug 2021	Low Tide Time	5
S8	31 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-1
S9	03 Aug 2021	Arrive Time	831
S9	03 Aug 2021	Weather	Sunny
S9	03 Aug 2021	Wind Speed (kts)	6.8
S9	03 Aug 2021	Wind Dir	N
S9	03 Aug 2021	Animal Life	Bird-17; Seagull-2
S9	03 Aug 2021	Floatables	None
S9	03 Aug 2021	Water Color	Blue
S9	03 Aug 2021	Current Direction	S
S9	03 Aug 2021	Water Temp (C)	18.1
S9	03 Aug 2021	Wave Height Low (ft)	1
S9	03 Aug 2021	High Tide (ft)	3.25
S9	03 Aug 2021	High Tide Time	809
S9	03 Aug 2021	Low Tide (ft)	0.7
S9	03 Aug 2021	Low Tide Time	130
S9	03 Aug 2021	Comments	Water clear; Trash-1; Person/Walker/Jogger-14
S9	10 Aug 2021	Arrive Time	1053
S9	10 Aug 2021	Weather	Sunny

Station	Date	Parameter	Value
S9	10 Aug 2021	Wind Speed (kts)	4.7
S9	10 Aug 2021	Wind Dir	W
S9	10 Aug 2021	Animal Life	Seagull-14
S9	10 Aug 2021	Floatables	Foam
S9	10 Aug 2021	Water Color	Brown
S9	10 Aug 2021	Current Direction	S
S9	10 Aug 2021	Water Temp (C)	23.6
S9	10 Aug 2021	Wave Height Low (ft)	1
S9	10 Aug 2021	High Tide (ft)	4.41
S9	10 Aug 2021	High Tide Time	1130
S9	10 Aug 2021	Low Tide (ft)	-0.51
S9	10 Aug 2021	Low Tide Time	514
S9	10 Aug 2021	Comments	Water turbid; Surfer/Paddle boarder-10; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-8
S9	17 Aug 2021	Arrive Time	809, 841
S9	17 Aug 2021	Weather	Overcast
S9	17 Aug 2021	Wind Speed (kts)	0.6, 2.9
S9	17 Aug 2021	Wind Dir	W
S9	17 Aug 2021	Animal Life	, Seagull-1
S9	17 Aug 2021	Floatables	None, Foam
S9	17 Aug 2021	Water Color	Green
S9	17 Aug 2021	Current Direction	N
S9	17 Aug 2021	Water Temp (C)	22.2, 21.8
S9	17 Aug 2021	Wave Height Low (ft)	1
S9	17 Aug 2021	High Tide (ft)	3.27
S9	17 Aug 2021	High Tide Time	653
S9	17 Aug 2021	Low Tide (ft)	0.33
S9	17 Aug 2021	Low Tide Time	17
S9	17 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-12, Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S9	24 Aug 2021	Arrive Time	819
S9	24 Aug 2021	Weather	Overcast
S9	24 Aug 2021	Wind Speed (kts)	1.9
S9	24 Aug 2021	Wind Dir	SW
S9	24 Aug 2021	Animal Life	Seagull-13;
S9	24 Aug 2021	Floatables	Foam
S9	24 Aug 2021	Water Color	Green
S9	24 Aug 2021	Current Direction	S
S9	24 Aug 2021	Water Temp (C)	20.2
S9	24 Aug 2021	Wave Height Low (ft)	1
S9	24 Aug 2021	High Tide (ft)	4.79
S9	24 Aug 2021	High Tide Time	1118
S9	24 Aug 2021	Low Tide (ft)	-0.23
S9	24 Aug 2021	Low Tide Time	509
S9	24 Aug 2021	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-9
S9	31 Aug 2021	Arrive Time	825
S9	31 Aug 2021	Weather	Overcast
S9	31 Aug 2021	Wind Speed (kts)	1.2
S9	31 Aug 2021	Wind Dir	W
S9	31 Aug 2021	Animal Life	Bird-28; Seagull-3;
S9	31 Aug 2021	Floatables	None
S9	31 Aug 2021	Water Color	Grey
S9	31 Aug 2021	Current Direction	SW
S9	31 Aug 2021	Water Temp (C)	20
S9	31 Aug 2021	Wave Height Low (ft)	1
S9	31 Aug 2021	High Tide (ft)	3.24

Station	Date	Parameter	Value
S9	31 Aug 2021	High Tide Time	749
S9	31 Aug 2021	Low Tide (ft)	1.23
S9	31 Aug 2021	Low Tide Time	5
S9	31 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-7
S10	03 Aug 2021	Arrive Time	1137
S10	03 Aug 2021	Weather	Sunny
S10	03 Aug 2021	Wind Speed (kts)	3.8
S10	03 Aug 2021	Wind Dir	W
S10	03 Aug 2021	Animal Life	Pelican-2; Horses-2
S10	03 Aug 2021	Floatables	Foam; Dead animals
S10	03 Aug 2021	Water Color	Green
S10	03 Aug 2021	Current Direction	S
S10	03 Aug 2021	Water Temp (C)	18.3
S10	03 Aug 2021	Wave Height Low (ft)	4
S10	03 Aug 2021	High Tide (ft)	3.25
S10	03 Aug 2021	High Tide Time	809
S10	03 Aug 2021	Low Tide (ft)	0.7
S10	03 Aug 2021	Low Tide Time	130
S10	03 Aug 2021	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-2
S10	10 Aug 2021	Arrive Time	936
S10	10 Aug 2021	Weather	Cloudy
S10	10 Aug 2021	Wind Speed (kts)	4.1
S10	10 Aug 2021	Wind Dir	W
S10	10 Aug 2021	Animal Life	Bird-1; Pelican-1; Seagull-1
S10	10 Aug 2021	Floatables	Foam
S10	10 Aug 2021	Water Color	Green
S10	10 Aug 2021	Current Direction	N
S10	10 Aug 2021	Water Temp (C)	21.1
S10	10 Aug 2021	Wave Height Low (ft)	2
S10	10 Aug 2021	High Tide (ft)	4.41
S10	10 Aug 2021	High Tide Time	1130
S10	10 Aug 2021	Low Tide (ft)	-0.51
S10	10 Aug 2021	Low Tide Time	514
S10	10 Aug 2021	Comments	Kelp; Seagrass
S10	17 Aug 2021	Arrive Time	1048
S10	17 Aug 2021	Weather	Overcast
S10	17 Aug 2021	Wind Speed (kts)	5.9
S10	17 Aug 2021	Wind Dir	SW
S10	17 Aug 2021	Animal Life	Dolphin-6
S10	17 Aug 2021	Floatables	Foam; Film
S10	17 Aug 2021	Water Color	Green
S10	17 Aug 2021	Current Direction	N
S10	17 Aug 2021	Water Temp (C)	22.6
S10	17 Aug 2021	Wave Height Low (ft)	3
S10	17 Aug 2021	High Tide (ft)	3.27
S10	17 Aug 2021	High Tide Time	653
S10	17 Aug 2021	Low Tide (ft)	0.33
S10	17 Aug 2021	Low Tide Time	17
S10	17 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-2
S10	24 Aug 2021	Arrive Time	1058
S10	24 Aug 2021	Weather	Sunny
S10	24 Aug 2021	Wind Speed (kts)	3.9
S10	24 Aug 2021	Wind Dir	W
S10	24 Aug 2021	Animal Life	Bird-8

Station	Date	Parameter	Value
S10	24 Aug 2021	Floatables	Foam
S10	24 Aug 2021	Water Color	Green
S10	24 Aug 2021	Current Direction	S
S10	24 Aug 2021	Water Temp (C)	20.5
S10	24 Aug 2021	Wave Height Low (ft)	3
S10	24 Aug 2021	High Tide (ft)	4.79
S10	24 Aug 2021	High Tide Time	1118
S10	24 Aug 2021	Low Tide (ft)	-0.23
S10	24 Aug 2021	Low Tide Time	509
S10	24 Aug 2021	Comments	Kelp; Seagrass
S10	31 Aug 2021	Arrive Time	1147
S10	31 Aug 2021	Weather	Overcast
S10	31 Aug 2021	Wind Speed (kts)	3.8
S10	31 Aug 2021	Wind Dir	SW
S10	31 Aug 2021	Animal Life	
S10	31 Aug 2021	Floatables	None
S10	31 Aug 2021	Water Color	Green
S10	31 Aug 2021	Current Direction	N
S10	31 Aug 2021	Water Temp (C)	21.5
S10	31 Aug 2021	Wave Height Low (ft)	4
S10	31 Aug 2021	High Tide (ft)	3.24
S10	31 Aug 2021	High Tide Time	749
S10	31 Aug 2021	Low Tide (ft)	1.23
S10	31 Aug 2021	Low Tide Time	5
S10	31 Aug 2021	Comments	Kelp; Seagrass; Debris
S11	03 Aug 2021	Arrive Time	1013
S11	03 Aug 2021	Weather	Foggy
S11	03 Aug 2021	Wind Speed (kts)	5.8
S11	03 Aug 2021	Wind Dir	NW
S11	03 Aug 2021	Animal Life	Seagull-3
S11	03 Aug 2021	Floatables	None
S11	03 Aug 2021	Water Color	Green
S11	03 Aug 2021	Current Direction	S
S11	03 Aug 2021	Water Temp (C)	15.8
S11	03 Aug 2021	Wave Height Low (ft)	3
S11	03 Aug 2021	High Tide (ft)	3.25
S11	03 Aug 2021	High Tide Time	809
S11	03 Aug 2021	Low Tide (ft)	0.7
S11	03 Aug 2021	Low Tide Time	130
S11	03 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S11	10 Aug 2021	Arrive Time	817
S11	10 Aug 2021	Weather	Cloudy
S11	10 Aug 2021	Wind Speed (kts)	3.3
S11	10 Aug 2021	Wind Dir	NW
S11	10 Aug 2021	Animal Life	Bird-10; Dog-1; Dolphin-1
S11	10 Aug 2021	Floatables	Foam
S11	10 Aug 2021	Water Color	Green
S11	10 Aug 2021	Current Direction	S
S11	10 Aug 2021	Water Temp (C)	20.3
S11	10 Aug 2021	Wave Height Low (ft)	1
S11	10 Aug 2021	High Tide (ft)	4.41
S11	10 Aug 2021	High Tide Time	1130
S11	10 Aug 2021	Low Tide (ft)	-0.51
S11	10 Aug 2021	Low Tide Time	514
S11	10 Aug 2021	Comments	Water turbid; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3

Station	Date	Parameter	Value
S11	17 Aug 2021	Arrive Time	945
S11	17 Aug 2021	Weather	Overcast
S11	17 Aug 2021	Wind Speed (kts)	3.5
S11	17 Aug 2021	Wind Dir	W
S11	17 Aug 2021	Animal Life	Bird-3
S11	17 Aug 2021	Floatables	None
S11	17 Aug 2021	Water Color	Green
S11	17 Aug 2021	Current Direction	N
S11	17 Aug 2021	Water Temp (C)	22.2
S11	17 Aug 2021	Wave Height Low (ft)	4
S11	17 Aug 2021	High Tide (ft)	3.27
S11	17 Aug 2021	High Tide Time	653
S11	17 Aug 2021	Low Tide (ft)	0.33
S11	17 Aug 2021	Low Tide Time	17
S11	17 Aug 2021	Comments	Kelp; Seagrass
S11	24 Aug 2021	Arrive Time	1004
S11	24 Aug 2021	Weather	Sunny
S11	24 Aug 2021	Wind Speed (kts)	34
S11	24 Aug 2021	Wind Dir	NW
S11	24 Aug 2021	Animal Life	Dog-1
S11	24 Aug 2021	Floatables	Foam
S11	24 Aug 2021	Water Color	Green
S11	24 Aug 2021	Current Direction	S
S11	24 Aug 2021	Water Temp (C)	20.6
S11	24 Aug 2021	Wave Height Low (ft)	2
S11	24 Aug 2021	High Tide (ft)	4.79
S11	24 Aug 2021	High Tide Time	1118
S11	24 Aug 2021	Low Tide (ft)	-0.23
S11	24 Aug 2021	Low Tide Time	509
S11	24 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S11	31 Aug 2021	Arrive Time	1012
S11	31 Aug 2021	Weather	Overcast
S11	31 Aug 2021	Wind Speed (kts)	6.4
S11	31 Aug 2021	Wind Dir	SW
S11	31 Aug 2021	Animal Life	Dog-3
S11	31 Aug 2021	Floatables	None
S11	31 Aug 2021	Water Color	Green
S11	31 Aug 2021	Current Direction	NW
S11	31 Aug 2021	Water Temp (C)	20.1
S11	31 Aug 2021	Wave Height Low (ft)	3
S11	31 Aug 2021	High Tide (ft)	3.24
S11	31 Aug 2021	High Tide Time	749
S11	31 Aug 2021	Low Tide (ft)	1.23
S11	31 Aug 2021	Low Tide Time	5
S11	31 Aug 2021	Comments	Water turbid; Trash-1; Kelp; Seagrass; Algae; Person/Walker/Jogger-5
S12	03 Aug 2021	Arrive Time	929
S12	03 Aug 2021	Weather	Foggy
S12	03 Aug 2021	Wind Speed (kts)	6
S12	03 Aug 2021	Wind Dir	NW
S12	03 Aug 2021	Animal Life	Dog-1; Seagull-2
S12	03 Aug 2021	Floatables	None
S12	03 Aug 2021	Water Color	Green
S12	03 Aug 2021	Current Direction	S
S12	03 Aug 2021	Water Temp (C)	18.2
S12	03 Aug 2021	Wave Height Low (ft)	2
S12	03 Aug 2021	High Tide (ft)	3.25

Station	Date	Parameter	Value
S12	03 Aug 2021	High Tide Time	809
S12	03 Aug 2021	Low Tide (ft)	0.7
S12	03 Aug 2021	Low Tide Time	130
S12	03 Aug 2021	Comments	Water clear; Boogie boarder/Swimmer-2; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-19
S12	10 Aug 2021	Arrive Time	848
S12	10 Aug 2021	Weather	Cloudy
S12	10 Aug 2021	Wind Speed (kts)	4
S12	10 Aug 2021	Wind Dir	W
S12	10 Aug 2021	Animal Life	Bird-1; Dog-1
S12	10 Aug 2021	Floatables	Foam
S12	10 Aug 2021	Water Color	Green
S12	10 Aug 2021	Current Direction	S
S12	10 Aug 2021	Water Temp (C)	20.6
S12	10 Aug 2021	Wave Height Low (ft)	1
S12	10 Aug 2021	High Tide (ft)	4.41
S12	10 Aug 2021	High Tide Time	1130
S12	10 Aug 2021	Low Tide (ft)	-0.51
S12	10 Aug 2021	Low Tide Time	514
S12	10 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S12	17 Aug 2021	Arrive Time	902
S12	17 Aug 2021	Weather	Overcast
S12	17 Aug 2021	Wind Speed (kts)	5.6
S12	17 Aug 2021	Wind Dir	SW
S12	17 Aug 2021	Animal Life	Bird-4
S12	17 Aug 2021	Floatables	None
S12	17 Aug 2021	Water Color	Green
S12	17 Aug 2021	Current Direction	N
S12	17 Aug 2021	Water Temp (C)	22
S12	17 Aug 2021	Wave Height Low (ft)	2
S12	17 Aug 2021	High Tide (ft)	3.27
S12	17 Aug 2021	High Tide Time	653
S12	17 Aug 2021	Low Tide (ft)	0.33
S12	17 Aug 2021	Low Tide Time	17
S12	17 Aug 2021	Comments	Water clear; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-7
S12	24 Aug 2021	Arrive Time	924
S12	24 Aug 2021	Weather	Partly cloudy
S12	24 Aug 2021	Wind Speed (kts)	0
S12	24 Aug 2021	Wind Dir	
S12	24 Aug 2021	Animal Life	Dog-1; Seagull-1;
S12	24 Aug 2021	Floatables	Foam; Condoms
S12	24 Aug 2021	Water Color	Green
S12	24 Aug 2021	Current Direction	S
S12	24 Aug 2021	Water Temp (C)	19.6
S12	24 Aug 2021	Wave Height Low (ft)	1
S12	24 Aug 2021	High Tide (ft)	4.79
S12	24 Aug 2021	High Tide Time	1118
S12	24 Aug 2021	Low Tide (ft)	-0.23
S12	24 Aug 2021	Low Tide Time	509
S12	24 Aug 2021	Comments	Water clear; Trash-2; Kelp; Seagrass; Person/Walker/Jogger-8
S12	31 Aug 2021	Arrive Time	923
S12	31 Aug 2021	Weather	Overcast
S12	31 Aug 2021	Wind Speed (kts)	4.6
S12	31 Aug 2021	Wind Dir	SW

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
S12	31 Aug 2021	Animal Life	Bird-5; Dog-2; Pelican-1; Seagull-1
S12	31 Aug 2021	Floatables	None
S12	31 Aug 2021	Water Color	Green
S12	31 Aug 2021	Current Direction	N
S12	31 Aug 2021	Water Temp (C)	19.9
S12	31 Aug 2021	Wave Height Low (ft)	2
S12	31 Aug 2021	High Tide (ft)	3.24
S12	31 Aug 2021	High Tide Time	749
S12	31 Aug 2021	Low Tide (ft)	1.23
S12	31 Aug 2021	Low Tide Time	5
S12	31 Aug 2021	Comments	Water clear; Boogie boarder/Swimmer-1; Trash-1; Kelp; Sea-grass; Person/Walker/Jogger-5

# 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 Aug 2021	2	2	2	2	2	2	2
02 Aug 2021	2	2	2	2	2	2	2
03 Aug 2021	2	2	2	2	2	2	2
04 Aug 2021	2	2	2	2	2	2	2
05 Aug 2021	2	2	2	2	2	2	2
06 Aug 2021	2	2	2	2	2	2	2
07 Aug 2021	2	2	2	2	2	2	2
08 Aug 2021	2	2	2	2	2	2	2
09 Aug 2021	2	2	2	2	2	4	2
10 Aug 2021	2	2	2	2	2	4	2
11 Aug 2021	2	2	2	2	2	4	2
12 Aug 2021	2	2	2	2	2	4	2
13 Aug 2021	2	2	2	2	2	4	2
14 Aug 2021	2	2	2	2	2	4	2
15 Aug 2021	2	2	2	2	2	4	2
16 Aug 2021	2	2	2	2	2	4	2
17 Aug 2021	2	2	2	2	2	4	2
18 Aug 2021	2	2	2	2	2	4	2
19 Aug 2021	2	2	2	2	2	4	2
20 Aug 2021	2	2	2	2	2	4	2
21 Aug 2021	2	2	2	2	2	4	2
22 Aug 2021	2	2	2	2	2	4	2
23 Aug 2021	2	2	2	2	2	4	2
24 Aug 2021	2	2	2	2	2	4	2
25 Aug 2021	2	2	2	2	2	4	2
26 Aug 2021	2	2	2	2	2	4	2
27 Aug 2021	2	2	2	2	2	4	2
28 Aug 2021	2	2	2	2	2	4	2
29 Aug 2021	2	2	2	2	2	4	2
30 Aug 2021	2	2	2	2	2	4	2
31 Aug 2021	4	2	2	2	2	4	2

\* 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
02 Aug 2021	IC						
09 Aug 2021	IC						
17 Aug 2021	IC						
24 Aug 2021	IC						
31 Aug 2021	IC						

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 Aug 2021	2	2	2	2	2	2	2
02 Aug 2021	2	2	2	2	2	2	2
03 Aug 2021	2	2	2	2	2	2	2
04 Aug 2021	2	2	2	2	2	2	2
05 Aug 2021	2	2	2	2	2	2	2
06 Aug 2021	2	2	2	2	2	2	2
07 Aug 2021	2	2	2	2	2	2	2
08 Aug 2021	2	2	2	2	2	2	2
09 Aug 2021	2	2	2	2	2	4	2
10 Aug 2021	2	2	2	2	2	4	2
11 Aug 2021	2	2	2	2	2	4	2
12 Aug 2021	2	2	2	2	2	4	2
13 Aug 2021	2	2	2	2	2	4	2
14 Aug 2021	2	2	2	2	2	4	2
15 Aug 2021	2	2	2	2	2	4	2
16 Aug 2021	2	2	2	2	2	4	2
17 Aug 2021	2	2	2	2	2	4	2
18 Aug 2021	2	2	2	2	2	4	2
19 Aug 2021	2	2	2	2	2	4	2
20 Aug 2021	2	2	2	2	2	4	2
21 Aug 2021	2	2	2	2	2	4	2
22 Aug 2021	2	2	2	2	2	4	2
23 Aug 2021	2	2	2	2	2	4	2
24 Aug 2021	2	2	2	2	2	4	2
25 Aug 2021	2	2	2	2	2	4	2
26 Aug 2021	2	2	2	2	2	4	2
27 Aug 2021	2	2	2	2	2	4	2
28 Aug 2021	2	2	2	2	2	4	2
29 Aug 2021	2	2	2	2	2	4	2
30 Aug 2021	2	2	2	2	2	4	2
31 Aug 2021	4	2	2	2	2	4	2

\* 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
August	E	IC	IC	IC	IC	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

**Table 3.5**

Summary of compliance with the Ocean Plan's 30-day 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.

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	
01 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	
02 Aug 2021	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
03 Aug 2021	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
04 Aug 2021	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
05 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	
06 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	
07 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	
08 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	3	
09 Aug 2021	2	14	6	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
10 Aug 2021	2	14	6	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
11 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
12 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
13 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
14 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
15 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
16 Aug 2021	2	17	13	2	4	4	2	2	3	2	2	2	2	2	11	9	2	2	2	8	9	
17 Aug 2021	2	14	6	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
18 Aug 2021	2	14	6	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
19 Aug 2021	2	14	6	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
20 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	11	9	2	2	2	5	4	
21 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	11	9	2	2	2	5	4	
22 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	11	9	2	2	2	5	4	
23 Aug 2021	2	8	4	2	3	2	2	2	2	2	2	2	2	2	11	9	2	2	2	5	4	
24 Aug 2021	2	14	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8	4	
25 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
26 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
27 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
28 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
29 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
30 Aug 2021	2	9	11	2	2	4	2	2	3	2	2	11	2	2	2	2	2	3	3	2	5	9
31 Aug 2021	2	16	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	

\* Median calculated using n<5

**Table 3.6**

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Statistical Threshold Value for total coliform bacteria, which states that total coliform density shall not exceed 230 CFU/100 mL in more than 10% of samples per station 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
August	IC	E	E	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	IC	E	IC	IC	IC	IC	IC

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	02 Aug 2021	1243	2	<2	<2	<2	15.6	72.84	7.7	33.52	8.1
I19	02 Aug 2021	1243	6	<2	<2	<2	12.9	63.52	6.8	33.57	8.1
I19	02 Aug 2021	1243	11	<2	<2	<2	12.2	52.37	4.7	33.59	7.9
I19	09 Aug 2021	1025	2	<2	<2	<2	18.0	71.74	8.7	33.54	8.1
I19	09 Aug 2021	1025	6	<20	4e	<2	17.2	73.24	8.8	33.57	8.1
I19	09 Aug 2021	1025	11	20e	6e	<2	15.2	71.76	8.2	33.57	8.1
I19	17 Aug 2021	1223	2	<2	<2	<2	20.6	73.22	8.9	33.53	8.2
I19	17 Aug 2021	1223	6	<2	<2	<2	19.8	71.50	8.8	33.58	8.2
I19	17 Aug 2021	1223	11	<2	<2	<2	15.8	65.55	7.1	33.75	8.0
I19	24 Aug 2021	1057	2	16e	<2	2e	16.9	63.61	8.3	33.61	8.2
I19	24 Aug 2021	1057	6	16e	<2	8e	15.3	71.11	7.5	33.62	8.1
I19	24 Aug 2021	1057	11	<20	<2	4e	14.8	71.25	6.7	33.53	8.0
I19	31 Aug 2021	1140	2	32e	2e	4e	17.5	74.50	8.1	33.65	8.1
I19	31 Aug 2021	1140	6	980	66	44	13.6	66.64	7.9	33.55	8.0
I19	31 Aug 2021	1140	11	1400e	100e	120e	13.2	70.16	6.5	33.55	7.9
I24	02 Aug 2021	1306	2	<2	<2	<2	15.5	71.40	8.7	33.55	8.2
I24	02 Aug 2021	1306	6	2e	<2	<2	14.2	66.29	8.3	33.53	8.2
I24	02 Aug 2021	1306	11	<2	<2	<2	12.3	73.59	5.6	33.57	7.9
I24	09 Aug 2021	1045	2	8e	<2	2e	18.9	76.14	8.8	33.53	8.1
I24	09 Aug 2021	1045	6	20e	2e	2e	16.1	75.64	8.9	33.57	8.1
I24	09 Aug 2021	1045	11	6e	<2	<2	15.3	75.90	8.6	33.52	8.1
I24	17 Aug 2021	1241	2	<2	<2	<2	20.4	70.00	8.8	33.56	8.2
I24	17 Aug 2021	1241	6	2e	<2	<2	19.8	76.19	8.8	33.56	8.2
I24	17 Aug 2021	1241	11	2e	<2	<2	15.4	67.95	6.6	33.63	8.0
I24	24 Aug 2021	1118	2	<2	<2	<2	18.7	71.82	8.4	33.58	8.2
I24	24 Aug 2021	1118	6	<2	<2	<2	17.1	68.35	8.0	33.63	8.1
I24	24 Aug 2021	1118	11	6e	<2	<2	14.9	73.44	6.9	33.61	8.0
I24	31 Aug 2021	1206	2	<2	<2	<2	17.9	79.23	8.4	33.48	8.1
I24	31 Aug 2021	1206	6	<2	<2	<2	13.7	70.00	8.5	33.70	8.1
I24	31 Aug 2021	1206	11	<2	<2	<2	12.8	59.70	6.0	33.59	7.9
I25	02 Aug 2021	1318	2	<2	<2	<2	15.6	72.60	8.7	33.56	8.2
I25	02 Aug 2021	1318	6	<2	<2	<2	14.3	67.01	8.9	33.56	8.2
I25	02 Aug 2021	1318	9	<2	<2	<2	12.9	68.93	7.7	33.66	8.1
I25	09 Aug 2021	1051	2	10e	<2	6e	19.2	75.01	8.5	33.51	8.1
I25	09 Aug 2021	1051	6	<2	4e	2e	15.6	74.31	8.9	33.57	8.1
I25	09 Aug 2021	1051	9	4e	2e	2e	15.5	77.01	8.7	33.52	8.1
I25	17 Aug 2021	1257	2	<2	<2	<2	20.1	77.69	8.8	33.55	8.2
I25	17 Aug 2021	1257	6	<2	<2	<2	19.7	74.59	8.8	33.54	8.2
I25	17 Aug 2021	1257	9	<2	<2	<2	16.4	68.53	7.8	33.61	8.1

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I25	24 Aug 2021	1125	2	<2	<2	<2	19.1	69.36	8.8	33.53	8.2
I25	24 Aug 2021	1125	6	4e	<2	<2	16.2	67.95	7.8	33.61	8.1
I25	24 Aug 2021	1125	9	10e	<2	<2	15.3	74.21	6.9	33.56	8.0
I25	31 Aug 2021	1212	2	<2	<2	<2	17.8	80.69	8.4	33.46	8.1
I25	31 Aug 2021	1212	6	<2	<2	<2	15.3	77.12	8.6	33.67	8.1
I25	31 Aug 2021	1212	9	<2	<2	<2	12.9	64.34	6.1	33.58	7.9
I26	02 Aug 2021	1327	2	<2	<2	<2	15.7	71.69	8.7	33.53	8.2
I26	02 Aug 2021	1327	6	<2	<2	<2	14.6	67.68	8.6	33.62	8.2
I26	02 Aug 2021	1327	9	<2	<2	<2	12.4	74.12	6.7	33.65	8.0
I26	09 Aug 2021	1059	2	<2	2e	<2	19.5	73.17	8.5	33.51	8.1
I26	09 Aug 2021	1059	6	<2	<2	<2	17.8	73.45	8.8	33.63	8.2
I26	09 Aug 2021	1059	9	<2	<2	<2	16.4	76.95	8.8	33.59	8.1
I26	17 Aug 2021	1336	2	<2	<2	<2	20.4	74.38	8.7	33.57	8.2
I26	17 Aug 2021	1336	6	<2	<2	<2	19.7	73.35	9.0	33.53	8.2
I26	17 Aug 2021	1336	9	<20	<2	<2	15.9	66.80	7.7	33.81	8.1
I26	24 Aug 2021	1135	2	<2	<2	<2	19.3	69.75	8.7	33.55	8.2
I26	24 Aug 2021	1135	6	<2	<2	<2	16.9	67.64	8.8	33.64	8.2
I26	24 Aug 2021	1135	9	<20	<2	<2	15.6	75.35	6.7	33.57	8.0
I26	31 Aug 2021	1228	2	<2	<2	<2	18.1	80.28	8.5	33.49	8.1
I26	31 Aug 2021	1228	6	<2	<2	<2	15.2	78.07	8.7	33.63	8.1
I26	31 Aug 2021	1228	9	2e	<2	<2	13.5	80.03	7.9	33.57	8.0
I32	02 Aug 2021	1350	2	<2	<2	<2	15.8	73.30	8.5	33.51	8.2
I32	02 Aug 2021	1350	6	2e	<2	<2	15.6	72.46	8.3	33.51	8.2
I32	02 Aug 2021	1350	9	<2	<2	<2	12.6	60.65	5.7	33.58	7.9
I32	09 Aug 2021	1111	2	4e	<2	6e	19.0	63.47	8.9	33.52	8.2
I32	09 Aug 2021	1111	6	<20	<2	<2	17.9	67.13	8.6	33.50	8.1
I32	09 Aug 2021	1111	9	16e	<2	2e	16.4	73.06	8.5	33.53	8.1
I32	17 Aug 2021	1319	2	<2	<2	<2	20.6	72.05	8.9	33.53	8.2
I32	17 Aug 2021	1319	6	<2	<2	<2	20.3	62.09	9.1	33.52	8.2
I32	17 Aug 2021	1319	9	<2	<2	<2	19.9	65.23	8.1	33.62	8.2
I32	24 Aug 2021	1150	2	<2	<2	<2	19.1	68.97	8.3	33.54	8.2
I32	24 Aug 2021	1150	6	<2	<2	<2	17.1	64.77	8.4	33.57	8.2
I32	24 Aug 2021	1150	9	<2	<2	2e	16.4	65.40	8.1	33.54	8.1
I32	31 Aug 2021	1243	2	<2	<2	<2	18.6	80.36	8.4	33.50	8.1
I32	31 Aug 2021	1243	6	<2	<2	<2	17.6	74.28	8.1	33.49	8.1
I32	31 Aug 2021	1243	9	<2	<2	<2	14.0	72.26	8.7	33.58	8.1
I39	02 Aug 2021	1220	2	<2	<2	<2	15.5	74.88	8.7	33.54	8.2
I39	02 Aug 2021	1220	12	<2	<2	<2	12.7	69.27	7.5	33.57	8.1
I39	02 Aug 2021	1220	18	<2	<2	<2	11.9	84.89	5.2	33.62	7.9
I39	09 Aug 2021	1002	2	4200	110	300e	18.6	75.19	9.3	33.53	8.2
I39	09 Aug 2021	1002	12	8e	<2	2e	14.2	76.40	8.1	33.56	8.1
I39	09 Aug 2021	1002	18	<20	<2	<2	14.0	77.97	7.5	33.57	8.0
I39	17 Aug 2021	1159	2	<2	<2	<2	20.2	73.32	8.8	33.55	8.2
I39	17 Aug 2021	1159	12	2e	2e	<2	16.8	76.71	8.8	33.58	8.2
I39	17 Aug 2021	1159	18	<2	<2	<2	13.5	80.33	5.8	33.60	7.9

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I39	24 Aug 2021	1033	2	<2	<2	<2	19.8	72.48	8.6	33.55	8.2
I39	24 Aug 2021	1033	12	4e	2e	<2	14.0	74.78	6.6	33.57	8.0
I39	24 Aug 2021	1033	18	4e	<2	<2	13.4	81.49	6.0	33.55	8.0
I39	31 Aug 2021	1113	2	<2	<2	<2	16.4	84.14	8.4	33.47	8.1
I39	31 Aug 2021	1113	12	<2	<2	<2	13.2	70.28	8.9	33.31	8.1
I39	31 Aug 2021	1113	18	2e	<2	<2	12.8	80.38	5.9	33.39	7.8
I40	02 Aug 2021	1257	2	<2	<2	<2	16.0	73.20	8.4	33.52	8.2
I40	02 Aug 2021	1257	6	<2	<2	<2	13.9	68.08	6.9	33.57	8.1
I40	02 Aug 2021	1257	9	<2	<2	<2	12.4	62.45	5.4	33.58	8.0
I40	09 Aug 2021	1037	2	2e	<2	2e	18.2	71.18	8.8	33.54	8.1
I40	09 Aug 2021	1037	6	8e	<2	6e	17.0	75.75	9.0	33.55	8.1
I40	09 Aug 2021	1037	9	14e	2e	<2	15.8	75.70	8.8	33.57	8.1
I40	17 Aug 2021	1234	2	<2	<2	<2	20.7	66.75	8.9	33.59	8.2
I40	17 Aug 2021	1234	6	<2	<2	<2	19.8	70.36	8.7	33.59	8.2
I40	17 Aug 2021	1234	9	4e	<2	<2	16.7	57.94	6.8	33.81	8.1
I40	24 Aug 2021	1110	2	4e	<2	<2	17.2	65.78	8.5	33.61	8.2
I40	24 Aug 2021	1110	6	8e	2e	<2	15.6	67.12	7.7	33.56	8.1
I40	24 Aug 2021	1110	9	20e	<2	<2	14.9	65.05	6.5	33.54	8.0
I40	31 Aug 2021	1152	2	<2	<2	<2	18.3	73.44	8.5	33.50	8.1
I40	31 Aug 2021	1152	6	<2	<2	<2	13.4	71.78	8.4	33.63	8.0
I40	31 Aug 2021	1152	9	<2	<2	<2	13.1	54.66	6.6	33.53	7.9

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	02 Aug 2021	Depth (m)	11
I19	02 Aug 2021	Arrive Time	1243
I19	02 Aug 2021	Depart Time	1247
I19	02 Aug 2021	Air Temp (C)	17.5
I19	02 Aug 2021	Weather	Clear
I19	02 Aug 2021	Visibility (mi)	9
I19	02 Aug 2021	Wind Speed (kts)	10.5
I19	02 Aug 2021	Wind Dir	NW
I19	02 Aug 2021	Water Color	Green
I19	02 Aug 2021	Wave Ht Low (ft)	4
I19	02 Aug 2021	Wave Period (sec)	17
I19	02 Aug 2021	Sea State	Light Chop
I19	02 Aug 2021	High Tide (ft)	5.02
I19	02 Aug 2021	High Tide Time	1748
I19	02 Aug 2021	Low Tide (ft)	1.21
I19	02 Aug 2021	Low Tide Time	2354
I19	02 Aug 2021	Comments	none
I19	09 Aug 2021	Depth (m)	11
I19	09 Aug 2021	Arrive Time	1025
I19	09 Aug 2021	Depart Time	1028
I19	09 Aug 2021	Air Temp (C)	19
I19	09 Aug 2021	Weather	Haze
I19	09 Aug 2021	Visibility (mi)	9
I19	09 Aug 2021	Wind Speed (kts)	6.9
I19	09 Aug 2021	Wind Dir	W
I19	09 Aug 2021	Water Color	Green
I19	09 Aug 2021	Wave Ht Low (ft)	1
I19	09 Aug 2021	Wave Period (sec)	20
I19	09 Aug 2021	Sea State	Light Chop
I19	09 Aug 2021	High Tide (ft)	6.19
I19	09 Aug 2021	High Tide Time	2212
I19	09 Aug 2021	Low Tide (ft)	-0.52
I19	09 Aug 2021	Low Tide Time	442
I19	09 Aug 2021	Comments	none
I19	17 Aug 2021	Depth (m)	11
I19	17 Aug 2021	Arrive Time	1223
I19	17 Aug 2021	Depart Time	1226
I19	17 Aug 2021	Air Temp (C)	20.8
I19	17 Aug 2021	Weather	Overcast
I19	17 Aug 2021	Visibility (mi)	3
I19	17 Aug 2021	Wind Speed (kts)	5.9
I19	17 Aug 2021	Wind Dir	S
I19	17 Aug 2021	Water Color	Green
I19	17 Aug 2021	Wave Ht Low (ft)	2
I19	17 Aug 2021	Wave Period (sec)	12
I19	17 Aug 2021	Sea State	Calm
I19	17 Aug 2021	High Tide (ft)	5.87
I19	17 Aug 2021	High Tide Time	1736
I19	17 Aug 2021	Low Tide (ft)	0.3
I19	17 Aug 2021	Low Tide Time	2354
I19	17 Aug 2021	Comments	none
I19	24 Aug 2021	Depth (m)	11
I19	24 Aug 2021	Arrive Time	1057

Station	Date	Parameter	Value
I19	24 Aug 2021	Depart Time	1102
I19	24 Aug 2021	Air Temp (C)	19.9
I19	24 Aug 2021	Weather	Overcast
I19	24 Aug 2021	Visibility (mi)	5
I19	24 Aug 2021	Wind Speed (kts)	7.7
I19	24 Aug 2021	Wind Dir	NW
I19	24 Aug 2021	Water Color	Greenish-Blue
I19	24 Aug 2021	Wave Ht Low (ft)	3
I19	24 Aug 2021	Wave Period (sec)	13
I19	24 Aug 2021	Sea State	Calm
I19	24 Aug 2021	High Tide (ft)	5.46
I19	24 Aug 2021	High Tide Time	2306
I19	24 Aug 2021	Low Tide (ft)	-0.1
I19	24 Aug 2021	Low Tide Time	506
I19	24 Aug 2021	Comments	none
I19	31 Aug 2021	Depth (m)	11
I19	31 Aug 2021	Arrive Time	1140
I19	31 Aug 2021	Depart Time	1144
I19	31 Aug 2021	Air Temp (C)	18.7
I19	31 Aug 2021	Weather	Overcast
I19	31 Aug 2021	Visibility (mi)	7
I19	31 Aug 2021	Wind Speed (kts)	5.6
I19	31 Aug 2021	Wind Dir	SW
I19	31 Aug 2021	Water Color	Green
I19	31 Aug 2021	Wave Ht Low (ft)	3
I19	31 Aug 2021	Wave Period (sec)	11
I19	31 Aug 2021	Sea State	Calm
I19	31 Aug 2021	High Tide (ft)	4.67
I19	31 Aug 2021	High Tide Time	1700
I19	31 Aug 2021	Low Tide (ft)	1.03
I19	31 Aug 2021	Low Tide Time	2354
I19	31 Aug 2021	Comments	none
I24	02 Aug 2021	Depth (m)	11
I24	02 Aug 2021	Arrive Time	1306
I24	02 Aug 2021	Depart Time	1313
I24	02 Aug 2021	Air Temp (C)	17.5
I24	02 Aug 2021	Weather	Clear
I24	02 Aug 2021	Visibility (mi)	12
I24	02 Aug 2021	Wind Speed (kts)	6
I24	02 Aug 2021	Wind Dir	NW
I24	02 Aug 2021	Water Color	Green
I24	02 Aug 2021	Wave Ht Low (ft)	4
I24	02 Aug 2021	Wave Period (sec)	17
I24	02 Aug 2021	Sea State	Calm
I24	02 Aug 2021	High Tide (ft)	5.02
I24	02 Aug 2021	High Tide Time	1748
I24	02 Aug 2021	Low Tide (ft)	1.21
I24	02 Aug 2021	Low Tide Time	2354
I24	02 Aug 2021	Comments	none
I24	09 Aug 2021	Depth (m)	10
I24	09 Aug 2021	Arrive Time	1045
I24	09 Aug 2021	Depart Time	1047
I24	09 Aug 2021	Air Temp (C)	19.1
I24	09 Aug 2021	Weather	Haze
I24	09 Aug 2021	Visibility (mi)	9
I24	09 Aug 2021	Wind Speed (kts)	7
I24	09 Aug 2021	Wind Dir	W
I24	09 Aug 2021	Water Color	Green

Station	Date	Parameter	Value
I24	09 Aug 2021	Wave Ht Low (ft)	1
I24	09 Aug 2021	Wave Period (sec)	20
I24	09 Aug 2021	Sea State	Light Chop
I24	09 Aug 2021	High Tide (ft)	6.19
I24	09 Aug 2021	High Tide Time	2212
I24	09 Aug 2021	Low Tide (ft)	-0.52
I24	09 Aug 2021	Low Tide Time	442
I24	09 Aug 2021	Comments	none
I24	17 Aug 2021	Depth (m)	10
I24	17 Aug 2021	Arrive Time	1241
I24	17 Aug 2021	Depart Time	1244
I24	17 Aug 2021	Air Temp (C)	20.9
I24	17 Aug 2021	Weather	Overcast
I24	17 Aug 2021	Visibility (mi)	3
I24	17 Aug 2021	Wind Speed (kts)	2.9
I24	17 Aug 2021	Wind Dir	SW
I24	17 Aug 2021	Water Color	Green
I24	17 Aug 2021	Wave Ht Low (ft)	2
I24	17 Aug 2021	Wave Period (sec)	12
I24	17 Aug 2021	Sea State	Calm
I24	17 Aug 2021	High Tide (ft)	5.87
I24	17 Aug 2021	High Tide Time	1736
I24	17 Aug 2021	Low Tide (ft)	0.3
I24	17 Aug 2021	Low Tide Time	2354
I24	17 Aug 2021	Comments	none
I24	24 Aug 2021	Depth (m)	11
I24	24 Aug 2021	Arrive Time	1118
I24	24 Aug 2021	Depart Time	1122
I24	24 Aug 2021	Air Temp (C)	19.9
I24	24 Aug 2021	Weather	Overcast
I24	24 Aug 2021	Visibility (mi)	7
I24	24 Aug 2021	Wind Speed (kts)	7.6
I24	24 Aug 2021	Wind Dir	NW
I24	24 Aug 2021	Water Color	Green
I24	24 Aug 2021	Wave Ht Low (ft)	3
I24	24 Aug 2021	Wave Period (sec)	13
I24	24 Aug 2021	Sea State	Light Chop
I24	24 Aug 2021	High Tide (ft)	5.46
I24	24 Aug 2021	High Tide Time	2306
I24	24 Aug 2021	Low Tide (ft)	-0.1
I24	24 Aug 2021	Low Tide Time	506
I24	24 Aug 2021	Comments	none
I24	31 Aug 2021	Depth (m)	11
I24	31 Aug 2021	Arrive Time	1206
I24	31 Aug 2021	Depart Time	1210
I24	31 Aug 2021	Air Temp (C)	18.7
I24	31 Aug 2021	Weather	Overcast
I24	31 Aug 2021	Visibility (mi)	7
I24	31 Aug 2021	Wind Speed (kts)	4.5
I24	31 Aug 2021	Wind Dir	S
I24	31 Aug 2021	Water Color	Green
I24	31 Aug 2021	Wave Ht Low (ft)	3
I24	31 Aug 2021	Wave Period (sec)	15
I24	31 Aug 2021	Sea State	Calm
I24	31 Aug 2021	High Tide (ft)	4.67
I24	31 Aug 2021	High Tide Time	1700
I24	31 Aug 2021	Low Tide (ft)	1.03
I24	31 Aug 2021	Low Tide Time	2354

Station	Date	Parameter	Value
I24	31 Aug 2021	Comments	none
I25	02 Aug 2021	Depth (m)	9
I25	02 Aug 2021	Arrive Time	1318
I25	02 Aug 2021	Depart Time	1320
I25	02 Aug 2021	Air Temp (C)	17.5
I25	02 Aug 2021	Weather	Clear
I25	02 Aug 2021	Visibility (mi)	12
I25	02 Aug 2021	Wind Speed (kts)	8.8
I25	02 Aug 2021	Wind Dir	NW
I25	02 Aug 2021	Water Color	Green
I25	02 Aug 2021	Wave Ht Low (ft)	4
I25	02 Aug 2021	Wave Period (sec)	17
I25	02 Aug 2021	Sea State	Calm
I25	02 Aug 2021	High Tide (ft)	5.02
I25	02 Aug 2021	High Tide Time	1748
I25	02 Aug 2021	Low Tide (ft)	1.21
I25	02 Aug 2021	Low Tide Time	2354
I25	02 Aug 2021	Comments	none
I25	09 Aug 2021	Depth (m)	9
I25	09 Aug 2021	Arrive Time	1051
I25	09 Aug 2021	Depart Time	1054
I25	09 Aug 2021	Air Temp (C)	19.1
I25	09 Aug 2021	Weather	Haze
I25	09 Aug 2021	Visibility (mi)	9
I25	09 Aug 2021	Wind Speed (kts)	7.2
I25	09 Aug 2021	Wind Dir	W
I25	09 Aug 2021	Water Color	Green
I25	09 Aug 2021	Wave Ht Low (ft)	1
I25	09 Aug 2021	Wave Period (sec)	20
I25	09 Aug 2021	Sea State	Light Chop
I25	09 Aug 2021	High Tide (ft)	6.19
I25	09 Aug 2021	High Tide Time	2212
I25	09 Aug 2021	Low Tide (ft)	-0.52
I25	09 Aug 2021	Low Tide Time	442
I25	09 Aug 2021	Comments	none
I25	17 Aug 2021	Depth (m)	9
I25	17 Aug 2021	Arrive Time	1257
I25	17 Aug 2021	Depart Time	1302
I25	17 Aug 2021	Air Temp (C)	21
I25	17 Aug 2021	Weather	Overcast
I25	17 Aug 2021	Visibility (mi)	3
I25	17 Aug 2021	Wind Speed (kts)	6.7
I25	17 Aug 2021	Wind Dir	S
I25	17 Aug 2021	Water Color	Green
I25	17 Aug 2021	Wave Ht Low (ft)	3
I25	17 Aug 2021	Wave Period (sec)	12
I25	17 Aug 2021	Sea State	Light Chop
I25	17 Aug 2021	High Tide (ft)	5.87
I25	17 Aug 2021	High Tide Time	1736
I25	17 Aug 2021	Low Tide (ft)	0.3
I25	17 Aug 2021	Low Tide Time	2354
I25	17 Aug 2021	Comments	none
I25	24 Aug 2021	Depth (m)	10
I25	24 Aug 2021	Arrive Time	1125
I25	24 Aug 2021	Depart Time	1129
I25	24 Aug 2021	Air Temp (C)	19.8
I25	24 Aug 2021	Weather	Partly Cloudy

Station	Date	Parameter	Value
I25	24 Aug 2021	Visibility (mi)	7
I25	24 Aug 2021	Wind Speed (kts)	9.4
I25	24 Aug 2021	Wind Dir	NW
I25	24 Aug 2021	Water Color	Green
I25	24 Aug 2021	Wave Ht Low (ft)	3
I25	24 Aug 2021	Wave Period (sec)	13
I25	24 Aug 2021	Sea State	Light Chop
I25	24 Aug 2021	High Tide (ft)	5.46
I25	24 Aug 2021	High Tide Time	2306
I25	24 Aug 2021	Low Tide (ft)	-0.1
I25	24 Aug 2021	Low Tide Time	506
I25	24 Aug 2021	Comments	none
I25	31 Aug 2021	Depth (m)	9
I25	31 Aug 2021	Arrive Time	1212
I25	31 Aug 2021	Depart Time	1219
I25	31 Aug 2021	Air Temp (C)	19.6
I25	31 Aug 2021	Weather	Overcast
I25	31 Aug 2021	Visibility (mi)	7
I25	31 Aug 2021	Wind Speed (kts)	3.8
I25	31 Aug 2021	Wind Dir	S
I25	31 Aug 2021	Water Color	Green
I25	31 Aug 2021	Wave Ht Low (ft)	3
I25	31 Aug 2021	Wave Period (sec)	15
I25	31 Aug 2021	Sea State	Calm
I25	31 Aug 2021	High Tide (ft)	4.67
I25	31 Aug 2021	High Tide Time	1700
I25	31 Aug 2021	Low Tide (ft)	1.03
I25	31 Aug 2021	Low Tide Time	2354
I25	31 Aug 2021	Comments	none
I26	02 Aug 2021	Depth (m)	10
I26	02 Aug 2021	Arrive Time	1327
I26	02 Aug 2021	Depart Time	1331
I26	02 Aug 2021	Air Temp (C)	17.5
I26	02 Aug 2021	Weather	Clear
I26	02 Aug 2021	Visibility (mi)	12
I26	02 Aug 2021	Wind Speed (kts)	8.9
I26	02 Aug 2021	Wind Dir	NW
I26	02 Aug 2021	Water Color	Green
I26	02 Aug 2021	Wave Ht Low (ft)	4
I26	02 Aug 2021	Wave Period (sec)	17
I26	02 Aug 2021	Sea State	Calm
I26	02 Aug 2021	High Tide (ft)	5.02
I26	02 Aug 2021	High Tide Time	1748
I26	02 Aug 2021	Low Tide (ft)	1.21
I26	02 Aug 2021	Low Tide Time	2354
I26	02 Aug 2021	Comments	none
I26	09 Aug 2021	Depth (m)	10
I26	09 Aug 2021	Arrive Time	1059
I26	09 Aug 2021	Depart Time	1102
I26	09 Aug 2021	Air Temp (C)	19
I26	09 Aug 2021	Weather	Haze
I26	09 Aug 2021	Visibility (mi)	9
I26	09 Aug 2021	Wind Speed (kts)	6.6
I26	09 Aug 2021	Wind Dir	W
I26	09 Aug 2021	Water Color	Green
I26	09 Aug 2021	Wave Ht Low (ft)	1
I26	09 Aug 2021	Wave Period (sec)	20
I26	09 Aug 2021	Sea State	Light Chop

Station	Date	Parameter	Value
I26	09 Aug 2021	High Tide (ft)	6.19
I26	09 Aug 2021	High Tide Time	2212
I26	09 Aug 2021	Low Tide (ft)	-0.52
I26	09 Aug 2021	Low Tide Time	442
I26	09 Aug 2021	Comments	none
I26	17 Aug 2021	Depth (m)	9
I26	17 Aug 2021	Arrive Time	1306
I26	17 Aug 2021	Depart Time	1311
I26	17 Aug 2021	Air Temp (C)	21.1
I26	17 Aug 2021	Weather	Overcast
I26	17 Aug 2021	Visibility (mi)	3
I26	17 Aug 2021	Wind Speed (kts)	1.9
I26	17 Aug 2021	Wind Dir	SW
I26	17 Aug 2021	Water Color	Green
I26	17 Aug 2021	Wave Ht Low (ft)	3
I26	17 Aug 2021	Wave Period (sec)	12
I26	17 Aug 2021	Sea State	Light Chop
I26	17 Aug 2021	High Tide (ft)	5.87
I26	17 Aug 2021	High Tide Time	1736
I26	17 Aug 2021	Low Tide (ft)	0.3
I26	17 Aug 2021	Low Tide Time	2354
I26	17 Aug 2021	Comments	none
I26	24 Aug 2021	Depth (m)	10
I26	24 Aug 2021	Arrive Time	1135
I26	24 Aug 2021	Depart Time	1139
I26	24 Aug 2021	Air Temp (C)	19.9
I26	24 Aug 2021	Weather	Partly Cloudy
I26	24 Aug 2021	Visibility (mi)	7
I26	24 Aug 2021	Wind Speed (kts)	7.7
I26	24 Aug 2021	Wind Dir	NW
I26	24 Aug 2021	Water Color	Green
I26	24 Aug 2021	Wave Ht Low (ft)	3
I26	24 Aug 2021	Wave Period (sec)	13
I26	24 Aug 2021	Sea State	Light Chop
I26	24 Aug 2021	High Tide (ft)	5.46
I26	24 Aug 2021	High Tide Time	2306
I26	24 Aug 2021	Low Tide (ft)	-0.1
I26	24 Aug 2021	Low Tide Time	506
I26	24 Aug 2021	Comments	none
I26	31 Aug 2021	Depth (m)	10
I26	31 Aug 2021	Arrive Time	1228
I26	31 Aug 2021	Depart Time	1240
I26	31 Aug 2021	Air Temp (C)	18.9
I26	31 Aug 2021	Weather	Overcast
I26	31 Aug 2021	Visibility (mi)	7
I26	31 Aug 2021	Wind Speed (kts)	5.7
I26	31 Aug 2021	Wind Dir	S
I26	31 Aug 2021	Water Color	Green
I26	31 Aug 2021	Wave Ht Low (ft)	3
I26	31 Aug 2021	Wave Period (sec)	15
I26	31 Aug 2021	Sea State	Calm
I26	31 Aug 2021	High Tide (ft)	4.67
I26	31 Aug 2021	High Tide Time	1700
I26	31 Aug 2021	Low Tide (ft)	1.03
I26	31 Aug 2021	Low Tide Time	2354
I26	31 Aug 2021	Comments	none
I32	02 Aug 2021	Depth (m)	9

Station	Date	Parameter	Value
I32	02 Aug 2021	Arrive Time	1350
I32	02 Aug 2021	Depart Time	1354
I32	02 Aug 2021	Air Temp (C)	17.9
I32	02 Aug 2021	Weather	Clear
I32	02 Aug 2021	Visibility (mi)	12
I32	02 Aug 2021	Wind Speed (kts)	10.6
I32	02 Aug 2021	Wind Dir	NW
I32	02 Aug 2021	Water Color	Green
I32	02 Aug 2021	Wave Ht Low (ft)	4
I32	02 Aug 2021	Wave Period (sec)	17
I32	02 Aug 2021	Sea State	Calm
I32	02 Aug 2021	High Tide (ft)	5.02
I32	02 Aug 2021	High Tide Time	1748
I32	02 Aug 2021	Low Tide (ft)	1.21
I32	02 Aug 2021	Low Tide Time	2354
I32	02 Aug 2021	Comments	none
I32	09 Aug 2021	Depth (m)	11
I32	09 Aug 2021	Arrive Time	1111
I32	09 Aug 2021	Depart Time	1117
I32	09 Aug 2021	Air Temp (C)	19
I32	09 Aug 2021	Weather	Haze
I32	09 Aug 2021	Visibility (mi)	9
I32	09 Aug 2021	Wind Speed (kts)	9.4
I32	09 Aug 2021	Wind Dir	W
I32	09 Aug 2021	Water Color	Green
I32	09 Aug 2021	Wave Ht Low (ft)	1
I32	09 Aug 2021	Wave Period (sec)	20
I32	09 Aug 2021	Sea State	Light Chop
I32	09 Aug 2021	High Tide (ft)	6.19
I32	09 Aug 2021	High Tide Time	2212
I32	09 Aug 2021	Low Tide (ft)	-0.52
I32	09 Aug 2021	Low Tide Time	442
I32	09 Aug 2021	Comments	none
I32	17 Aug 2021	Depth (m)	11
I32	17 Aug 2021	Arrive Time	1319
I32	17 Aug 2021	Depart Time	1324
I32	17 Aug 2021	Air Temp (C)	21.1
I32	17 Aug 2021	Weather	Overcast
I32	17 Aug 2021	Visibility (mi)	3
I32	17 Aug 2021	Wind Speed (kts)	2.2
I32	17 Aug 2021	Wind Dir	SW
I32	17 Aug 2021	Water Color	Green
I32	17 Aug 2021	Wave Ht Low (ft)	3
I32	17 Aug 2021	Wave Period (sec)	12
I32	17 Aug 2021	Sea State	Light Chop
I32	17 Aug 2021	High Tide (ft)	5.87
I32	17 Aug 2021	High Tide Time	1736
I32	17 Aug 2021	Low Tide (ft)	0.3
I32	17 Aug 2021	Low Tide Time	2354
I32	17 Aug 2021	Comments	More yellow foam at surface
I32	24 Aug 2021	Depth (m)	11
I32	24 Aug 2021	Arrive Time	1150
I32	24 Aug 2021	Depart Time	1153
I32	24 Aug 2021	Air Temp (C)	20
I32	24 Aug 2021	Weather	Partly Cloudy
I32	24 Aug 2021	Visibility (mi)	7
I32	24 Aug 2021	Wind Speed (kts)	7.8
I32	24 Aug 2021	Wind Dir	W

Station	Date	Parameter	Value
I32	24 Aug 2021	Water Color	Green
I32	24 Aug 2021	Wave Ht Low (ft)	3
I32	24 Aug 2021	Wave Period (sec)	13
I32	24 Aug 2021	Sea State	Light Chop
I32	24 Aug 2021	High Tide (ft)	5.46
I32	24 Aug 2021	High Tide Time	2306
I32	24 Aug 2021	Low Tide (ft)	-0.1
I32	24 Aug 2021	Low Tide Time	506
I32	24 Aug 2021	Comments	none
I32	31 Aug 2021	Depth (m)	10
I32	31 Aug 2021	Arrive Time	1243
I32	31 Aug 2021	Depart Time	1252
I32	31 Aug 2021	Air Temp (C)	18.9
I32	31 Aug 2021	Weather	Overcast
I32	31 Aug 2021	Visibility (mi)	7
I32	31 Aug 2021	Wind Speed (kts)	4.6
I32	31 Aug 2021	Wind Dir	SW
I32	31 Aug 2021	Water Color	Green
I32	31 Aug 2021	Wave Ht Low (ft)	3
I32	31 Aug 2021	Wave Period (sec)	15
I32	31 Aug 2021	Sea State	Calm
I32	31 Aug 2021	High Tide (ft)	4.67
I32	31 Aug 2021	High Tide Time	1700
I32	31 Aug 2021	Low Tide (ft)	1.03
I32	31 Aug 2021	Low Tide Time	2354
I32	31 Aug 2021	Comments	Kelp Debris; Seagrass
I39	02 Aug 2021	Depth (m)	18
I39	02 Aug 2021	Arrive Time	1220
I39	02 Aug 2021	Depart Time	1224
I39	02 Aug 2021	Air Temp (C)	17.5
I39	02 Aug 2021	Weather	Clear
I39	02 Aug 2021	Visibility (mi)	9
I39	02 Aug 2021	Wind Speed (kts)	11
I39	02 Aug 2021	Wind Dir	NW
I39	02 Aug 2021	Water Color	Green
I39	02 Aug 2021	Wave Ht Low (ft)	4
I39	02 Aug 2021	Wave Period (sec)	17
I39	02 Aug 2021	Sea State	Light Chop
I39	02 Aug 2021	High Tide (ft)	5.02
I39	02 Aug 2021	High Tide Time	1748
I39	02 Aug 2021	Low Tide (ft)	1.21
I39	02 Aug 2021	Low Tide Time	2354
I39	02 Aug 2021	Comments	none
I39	09 Aug 2021	Depth (m)	19
I39	09 Aug 2021	Arrive Time	1002
I39	09 Aug 2021	Depart Time	1007
I39	09 Aug 2021	Air Temp (C)	19
I39	09 Aug 2021	Weather	Haze
I39	09 Aug 2021	Visibility (mi)	9
I39	09 Aug 2021	Wind Speed (kts)	4.2
I39	09 Aug 2021	Wind Dir	W
I39	09 Aug 2021	Water Color	Greenish-Blue
I39	09 Aug 2021	Wave Ht Low (ft)	1
I39	09 Aug 2021	Wave Period (sec)	20
I39	09 Aug 2021	Sea State	Calm
I39	09 Aug 2021	High Tide (ft)	6.19
I39	09 Aug 2021	High Tide Time	2212
I39	09 Aug 2021	Low Tide (ft)	-0.52

Station	Date	Parameter	Value
I39	09 Aug 2021	Low Tide Time	442
I39	09 Aug 2021	Comments	none
I39	17 Aug 2021	Depth (m)	18
I39	17 Aug 2021	Arrive Time	1159
I39	17 Aug 2021	Depart Time	1204
I39	17 Aug 2021	Air Temp (C)	20.7
I39	17 Aug 2021	Weather	Overcast
I39	17 Aug 2021	Visibility (mi)	3
I39	17 Aug 2021	Wind Speed (kts)	10
I39	17 Aug 2021	Wind Dir	S
I39	17 Aug 2021	Water Color	Green
I39	17 Aug 2021	Wave Ht Low (ft)	2
I39	17 Aug 2021	Wave Period (sec)	12
I39	17 Aug 2021	Sea State	Calm
I39	17 Aug 2021	High Tide (ft)	5.87
I39	17 Aug 2021	High Tide Time	1736
I39	17 Aug 2021	Low Tide (ft)	0.3
I39	17 Aug 2021	Low Tide Time	2354
I39	17 Aug 2021	Comments	Yellow foam on surface
I39	24 Aug 2021	Depth (m)	19
I39	24 Aug 2021	Arrive Time	1033
I39	24 Aug 2021	Depart Time	1037
I39	24 Aug 2021	Air Temp (C)	20
I39	24 Aug 2021	Weather	Overcast
I39	24 Aug 2021	Visibility (mi)	5
I39	24 Aug 2021	Wind Speed (kts)	4.6
I39	24 Aug 2021	Wind Dir	NW
I39	24 Aug 2021	Water Color	Greenish-Blue
I39	24 Aug 2021	Wave Ht Low (ft)	3
I39	24 Aug 2021	Wave Period (sec)	13
I39	24 Aug 2021	Sea State	Calm
I39	24 Aug 2021	High Tide (ft)	5.46
I39	24 Aug 2021	High Tide Time	2306
I39	24 Aug 2021	Low Tide (ft)	-0.1
I39	24 Aug 2021	Low Tide Time	506
I39	24 Aug 2021	Comments	none
I39	31 Aug 2021	Depth (m)	19
I39	31 Aug 2021	Arrive Time	1113
I39	31 Aug 2021	Depart Time	1139
I39	31 Aug 2021	Air Temp (C)	18.5
I39	31 Aug 2021	Weather	Overcast
I39	31 Aug 2021	Visibility (mi)	7
I39	31 Aug 2021	Wind Speed (kts)	4.7
I39	31 Aug 2021	Wind Dir	SE
I39	31 Aug 2021	Water Color	Greenish-Blue
I39	31 Aug 2021	Wave Ht Low (ft)	3
I39	31 Aug 2021	Wave Period (sec)	11
I39	31 Aug 2021	Sea State	Calm
I39	31 Aug 2021	High Tide (ft)	4.67
I39	31 Aug 2021	High Tide Time	1700
I39	31 Aug 2021	Low Tide (ft)	1.03
I39	31 Aug 2021	Low Tide Time	2354
I39	31 Aug 2021	Comments	none
I40	02 Aug 2021	Depth (m)	11
I40	02 Aug 2021	Arrive Time	1257
I40	02 Aug 2021	Depart Time	1300
I40	02 Aug 2021	Air Temp (C)	17.5

Station	Date	Parameter	Value
I40	02 Aug 2021	Weather	Clear
I40	02 Aug 2021	Visibility (mi)	9
I40	02 Aug 2021	Wind Speed (kts)	3.6
I40	02 Aug 2021	Wind Dir	NW
I40	02 Aug 2021	Water Color	Green
I40	02 Aug 2021	Wave Ht Low (ft)	4
I40	02 Aug 2021	Wave Period (sec)	17
I40	02 Aug 2021	Sea State	Light Chop
I40	02 Aug 2021	High Tide (ft)	5.02
I40	02 Aug 2021	High Tide Time	1748
I40	02 Aug 2021	Low Tide (ft)	1.21
I40	02 Aug 2021	Low Tide Time	2354
I40	02 Aug 2021	Comments	none
I40	09 Aug 2021	Depth (m)	10
I40	09 Aug 2021	Arrive Time	1037
I40	09 Aug 2021	Depart Time	1039
I40	09 Aug 2021	Air Temp (C)	19
I40	09 Aug 2021	Weather	Haze
I40	09 Aug 2021	Visibility (mi)	9
I40	09 Aug 2021	Wind Speed (kts)	7.1
I40	09 Aug 2021	Wind Dir	W
I40	09 Aug 2021	Water Color	Green
I40	09 Aug 2021	Wave Ht Low (ft)	1
I40	09 Aug 2021	Wave Period (sec)	20
I40	09 Aug 2021	Sea State	Light Chop
I40	09 Aug 2021	High Tide (ft)	6.19
I40	09 Aug 2021	High Tide Time	2212
I40	09 Aug 2021	Low Tide (ft)	-0.52
I40	09 Aug 2021	Low Tide Time	442
I40	09 Aug 2021	Comments	none
I40	17 Aug 2021	Depth (m)	10
I40	17 Aug 2021	Arrive Time	1234
I40	17 Aug 2021	Depart Time	1238
I40	17 Aug 2021	Air Temp (C)	21
I40	17 Aug 2021	Weather	Overcast
I40	17 Aug 2021	Visibility (mi)	3
I40	17 Aug 2021	Wind Speed (kts)	3.7
I40	17 Aug 2021	Wind Dir	SW
I40	17 Aug 2021	Water Color	Green
I40	17 Aug 2021	Wave Ht Low (ft)	2
I40	17 Aug 2021	Wave Period (sec)	12
I40	17 Aug 2021	Sea State	Calm
I40	17 Aug 2021	High Tide (ft)	5.87
I40	17 Aug 2021	High Tide Time	1736
I40	17 Aug 2021	Low Tide (ft)	0.3
I40	17 Aug 2021	Low Tide Time	2354
I40	17 Aug 2021	Comments	none
I40	24 Aug 2021	Depth (m)	11
I40	24 Aug 2021	Arrive Time	1110
I40	24 Aug 2021	Depart Time	1113
I40	24 Aug 2021	Air Temp (C)	19.7
I40	24 Aug 2021	Weather	Overcast
I40	24 Aug 2021	Visibility (mi)	7
I40	24 Aug 2021	Wind Speed (kts)	6.2
I40	24 Aug 2021	Wind Dir	W
I40	24 Aug 2021	Water Color	Green
I40	24 Aug 2021	Wave Ht Low (ft)	3
I40	24 Aug 2021	Wave Period (sec)	13

Station	Date	Parameter	Value
I40	24 Aug 2021	Sea State	Light Chop
I40	24 Aug 2021	High Tide (ft)	5.46
I40	24 Aug 2021	High Tide Time	2306
I40	24 Aug 2021	Low Tide (ft)	-0.1
I40	24 Aug 2021	Low Tide Time	506
I40	24 Aug 2021	Comments	none
I40	31 Aug 2021	Depth (m)	10
I40	31 Aug 2021	Arrive Time	1152
I40	31 Aug 2021	Depart Time	1159
I40	31 Aug 2021	Air Temp (C)	18.7
I40	31 Aug 2021	Weather	Overcast
I40	31 Aug 2021	Visibility (mi)	7
I40	31 Aug 2021	Wind Speed (kts)	5.2
I40	31 Aug 2021	Wind Dir	NW
I40	31 Aug 2021	Water Color	Green
I40	31 Aug 2021	Wave Ht Low (ft)	3
I40	31 Aug 2021	Wave Period (sec)	15
I40	31 Aug 2021	Sea State	Calm
I40	31 Aug 2021	High Tide (ft)	4.67
I40	31 Aug 2021	High Tide Time	1700
I40	31 Aug 2021	Low Tide (ft)	1.03
I40	31 Aug 2021	Low Tide Time	2354
I40	31 Aug 2021	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 ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I19	02 Aug 2021	1	15.78	73.13	7.8	33.53	8.1	24.7	0.71
I19	02 Aug 2021	2	15.57	72.84	7.7	33.52	8.1	24.7	0.74
I19	02 Aug 2021	3	15.33	71.74	7.6	33.54	8.1	24.8	0.83
I19	02 Aug 2021	4	15.12	70.83	7.4	33.53	8.1	24.8	1.02
I19	02 Aug 2021	5	13.72	68.77	7.1	33.64	8.1	25.2	1.31
I19	02 Aug 2021	6	12.93	63.52	6.8	33.57	8.1	25.3	2.75
I19	02 Aug 2021	7	12.39	56.71	5.8	33.60	8.0	25.4	5.37
I19	02 Aug 2021	8	12.27	57.04	4.9	33.59	7.9	25.4	8.07
I19	02 Aug 2021	9	12.24	56.71	4.7	33.59	7.9	25.4	8.23
I19	02 Aug 2021	10	12.22	52.37	4.7	33.59	7.9	25.4	7.94
I19	09 Aug 2021	1	18.34	70.80	8.5	33.50	8.1	24.0	1.43
I19	09 Aug 2021	2	18.02	71.74	8.7	33.54	8.1	24.1	1.44
I19	09 Aug 2021	3	17.94	71.83	8.9	33.51	8.1	24.1	1.47
I19	09 Aug 2021	4	17.66	71.74	8.9	33.54	8.1	24.2	1.68
I19	09 Aug 2021	5	17.50	73.19	9.0	33.52	8.1	24.3	2.18
I19	09 Aug 2021	6	17.17	73.24	8.8	33.57	8.1	24.4	2.56
I19	09 Aug 2021	7	16.21	71.10	8.5	33.65	8.1	24.7	2.84
I19	09 Aug 2021	8	15.66	72.07	8.2	33.60	8.1	24.7	3.06
I19	09 Aug 2021	9	15.49	73.03	8.2	33.58	8.1	24.8	3.32
I19	09 Aug 2021	10	15.23	71.76	8.2	33.57	8.1	24.8	3.60
I19	17 Aug 2021	1	20.57	73.54	9.0	33.52	8.2	23.5	1.98
I19	17 Aug 2021	2	20.55	73.22	8.9	33.53	8.2	23.5	1.98
I19	17 Aug 2021	3	20.42	73.25	8.9	33.54	8.2	23.5	2.05
I19	17 Aug 2021	4	20.28	72.31	8.9	33.54	8.2	23.6	2.10
I19	17 Aug 2021	5	20.09	71.91	8.9	33.55	8.2	23.6	2.34
I19	17 Aug 2021	6	19.79	71.50	8.8	33.58	8.2	23.7	2.78
I19	17 Aug 2021	7	18.99	69.28	8.5	33.63	8.2	24.0	3.31
I19	17 Aug 2021	8	18.01	67.64	8.1	33.68	8.2	24.3	3.82
I19	17 Aug 2021	9	17.17	65.81	7.6	33.70	8.1	24.5	4.66
I19	17 Aug 2021	10	15.79	65.55	7.1	33.75	8.0	24.8	5.45
I19	24 Aug 2021	1	17.58	67.07	8.3	33.53	8.2	24.2	2.33
I19	24 Aug 2021	2	16.95	63.61	8.3	33.61	8.2	24.5	2.37
I19	24 Aug 2021	3	16.56	65.90	8.3	33.55	8.1	24.5	2.49
I19	24 Aug 2021	4	16.42	67.16	8.2	33.54	8.1	24.5	3.07
I19	24 Aug 2021	5	16.04	68.79	8.0	33.60	8.1	24.7	3.69
I19	24 Aug 2021	6	15.33	71.11	7.5	33.62	8.1	24.8	4.22
I19	24 Aug 2021	7	14.93	73.62	7.0	33.58	8.0	24.9	4.25
I19	24 Aug 2021	8	14.84	73.60	6.8	33.55	8.0	24.9	3.93
I19	24 Aug 2021	9	14.81	72.31	6.7	33.54	8.0	24.9	3.44
I19	24 Aug 2021	10	14.80	71.25	6.7	33.53	8.0	24.9	3.19
I19	31 Aug 2021	1	18.13	76.86	8.2	33.49	8.1	24.1	1.49
I19	31 Aug 2021	2	17.46	74.50	8.1	33.65	8.1	24.4	1.53
I19	31 Aug 2021	3	15.38	69.44	8.3	33.69	8.1	24.9	1.75
I19	31 Aug 2021	4	14.25	68.57	8.5	33.63	8.1	25.1	2.86
I19	31 Aug 2021	5	13.85	66.36	8.3	33.57	8.0	25.1	4.31
I19	31 Aug 2021	6	13.63	66.64	7.9	33.55	8.0	25.1	5.86
I19	31 Aug 2021	7	13.53	66.34	7.6	33.55	8.0	25.2	7.25
I19	31 Aug 2021	8	13.40	68.52	7.2	33.56	7.9	25.2	8.08
I19	31 Aug 2021	9	13.25	70.30	6.8	33.56	7.9	25.2	8.11
I19	31 Aug 2021	10	13.18	70.16	6.5	33.55	7.9	25.2	7.23
I24	02 Aug 2021	1	15.68	71.55	8.7	33.56	8.2	24.7	1.26

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I24	02 Aug 2021	2	15.52	71.40	8.7	33.55	8.2	24.7	1.32
I24	02 Aug 2021	3	14.97	70.73	8.6	33.57	8.2	24.9	1.47
I24	02 Aug 2021	4	14.51	68.92	8.8	33.56	8.2	25.0	1.79
I24	02 Aug 2021	5	14.37	67.52	8.7	33.54	8.2	25.0	2.41
I24	02 Aug 2021	6	14.24	66.29	8.3	33.53	8.2	25.0	3.13
I24	02 Aug 2021	7	14.10	66.79	7.7	33.54	8.1	25.0	3.95
I24	02 Aug 2021	8	13.25	67.54	7.0	33.62	8.1	25.3	4.63
I24	02 Aug 2021	9	12.55	73.08	6.4	33.60	8.0	25.4	5.35
I24	02 Aug 2021	10	12.35	73.43	6.0	33.61	8.0	25.4	4.93
I24	02 Aug 2021	11	12.33	73.59	5.6	33.57	7.9	25.4	3.97
I24	09 Aug 2021	1	19.43	76.35	8.6	33.50	8.1	23.8	1.14
I24	09 Aug 2021	2	18.92	76.14	8.8	33.53	8.1	23.9	1.19
I24	09 Aug 2021	3	17.85	74.82	9.5	33.58	8.2	24.2	1.29
I24	09 Aug 2021	4	17.15	74.03	9.4	33.56	8.2	24.4	1.55
I24	09 Aug 2021	5	16.64	74.82	9.1	33.54	8.1	24.5	1.97
I24	09 Aug 2021	6	16.14	75.64	8.9	33.57	8.1	24.6	2.19
I24	09 Aug 2021	7	15.59	74.84	8.9	33.57	8.1	24.7	2.41
I24	09 Aug 2021	8	15.35	74.77	8.8	33.54	8.1	24.8	2.87
I24	09 Aug 2021	9	15.29	74.88	8.7	33.53	8.1	24.8	3.10
I24	09 Aug 2021	10	15.27	75.90	8.6	33.52	8.1	24.8	3.21
I24	17 Aug 2021	1	20.68	69.99	8.8	33.52	8.2	23.5	2.32
I24	17 Aug 2021	2	20.41	70.00	8.8	33.56	8.2	23.6	2.34
I24	17 Aug 2021	3	20.29	72.11	8.8	33.54	8.2	23.6	2.37
I24	17 Aug 2021	4	20.22	75.93	8.7	33.54	8.2	23.6	2.40
I24	17 Aug 2021	5	20.03	76.65	8.8	33.56	8.2	23.7	2.21
I24	17 Aug 2021	6	19.78	76.19	8.8	33.56	8.2	23.7	2.04
I24	17 Aug 2021	7	19.39	72.89	8.5	33.60	8.2	23.9	1.97
I24	17 Aug 2021	8	18.45	69.87	7.9	33.67	8.1	24.1	2.22
I24	17 Aug 2021	9	16.16	72.13	7.2	33.85	8.1	24.8	3.08
I24	17 Aug 2021	10	15.43	67.95	6.6	33.63	8.0	24.8	3.54
I24	24 Aug 2021	1	19.06	72.23	8.4	33.54	8.2	23.9	1.59
I24	24 Aug 2021	2	18.73	71.82	8.4	33.58	8.2	24.0	1.64
I24	24 Aug 2021	3	18.24	71.42	8.3	33.58	8.2	24.1	1.66
I24	24 Aug 2021	4	18.11	71.28	8.1	33.55	8.2	24.1	1.78
I24	24 Aug 2021	5	17.89	70.61	8.0	33.57	8.2	24.2	1.88
I24	24 Aug 2021	6	17.07	68.35	8.0	33.63	8.1	24.5	2.05
I24	24 Aug 2021	7	16.27	61.20	8.2	33.64	8.2	24.6	2.30
I24	24 Aug 2021	8	15.71	65.19	8.1	33.59	8.1	24.7	2.76
I24	24 Aug 2021	9	15.59	68.96	7.6	33.56	8.1	24.7	3.80
I24	24 Aug 2021	10	15.41	71.41	7.2	33.57	8.1	24.8	4.88
I24	24 Aug 2021	11	14.95	73.44	6.9	33.61	8.0	24.9	5.44
I24	31 Aug 2021	1	17.87	79.19	8.4	33.47	8.1	24.1	1.44
I24	31 Aug 2021	2	17.85	79.23	8.4	33.48	8.1	24.1	1.42
I24	31 Aug 2021	3	17.54	79.09	8.4	33.54	8.1	24.3	1.44
I24	31 Aug 2021	4	16.50	76.34	8.4	33.70	8.1	24.6	1.55
I24	31 Aug 2021	5	15.11	71.62	8.5	33.74	8.1	25.0	1.79
I24	31 Aug 2021	6	13.68	70.00	8.5	33.70	8.1	25.3	2.44
I24	31 Aug 2021	7	12.96	70.10	8.0	33.62	8.0	25.3	3.27
I24	31 Aug 2021	8	12.84	66.56	7.2	33.59	8.0	25.3	3.89
I24	31 Aug 2021	9	12.85	60.23	6.4	33.58	7.9	25.3	5.14
I24	31 Aug 2021	10	12.81	59.70	6.0	33.59	7.9	25.3	7.17
I25	02 Aug 2021	1	15.76	72.77	8.7	33.55	8.2	24.7	1.14
I25	02 Aug 2021	2	15.60	72.60	8.7	33.56	8.2	24.7	1.18
I25	02 Aug 2021	3	15.45	71.38	8.8	33.56	8.2	24.8	1.31
I25	02 Aug 2021	4	15.20	70.17	8.8	33.57	8.2	24.8	1.57
I25	02 Aug 2021	5	14.77	68.61	8.9	33.57	8.2	24.9	1.96

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I25	02 Aug 2021	6	14.35	67.01	8.9	33.56	8.2	25.0	2.47
I25	02 Aug 2021	7	14.21	66.83	8.9	33.54	8.2	25.0	3.18
I25	02 Aug 2021	8	14.08	62.19	8.5	33.57	8.2	25.1	4.14
I25	02 Aug 2021	9	12.90	68.93	7.7	33.66	8.1	25.4	5.12
I25	09 Aug 2021	1	19.66	74.68	8.5	33.43	8.1	23.7	1.24
I25	09 Aug 2021	2	19.24	75.01	8.5	33.51	8.1	23.8	1.20
I25	09 Aug 2021	3	17.78	75.08	9.1	33.61	8.2	24.3	1.27
I25	09 Aug 2021	4	16.95	74.71	9.2	33.55	8.1	24.4	1.42
I25	09 Aug 2021	5	16.60	75.54	9.1	33.53	8.1	24.5	1.72
I25	09 Aug 2021	6	15.61	74.31	8.9	33.57	8.1	24.7	2.08
I25	09 Aug 2021	7	15.66	75.89	8.8	33.51	8.1	24.7	2.49
I25	09 Aug 2021	8	15.50	76.49	8.8	33.52	8.1	24.7	2.58
I25	09 Aug 2021	9	15.51	77.01	8.7	33.52	8.1	24.7	2.49
I25	17 Aug 2021	1	20.29	77.68	8.8	33.52	8.2	23.6	1.15
I25	17 Aug 2021	2	20.08	77.69	8.8	33.55	8.2	23.6	1.16
I25	17 Aug 2021	3	19.94	77.34	8.9	33.55	8.2	23.7	1.14
I25	17 Aug 2021	4	19.82	76.42	8.9	33.53	8.2	23.7	1.15
I25	17 Aug 2021	5	19.80	75.50	8.9	33.53	8.2	23.7	1.33
I25	17 Aug 2021	6	19.69	74.59	8.8	33.54	8.2	23.7	1.65
I25	17 Aug 2021	7	19.42	73.58	8.6	33.58	8.2	23.8	1.92
I25	17 Aug 2021	8	17.27	66.99	8.3	33.91	8.1	24.6	2.27
I25	17 Aug 2021	9	16.43	68.53	7.8	33.61	8.1	24.6	2.67
I25	24 Aug 2021	1	19.22	69.81	8.7	33.53	8.2	23.8	2.08
I25	24 Aug 2021	2	19.13	69.36	8.8	33.53	8.2	23.9	2.12
I25	24 Aug 2021	3	19.04	68.56	8.7	33.56	8.2	23.9	2.15
I25	24 Aug 2021	4	18.14	67.10	8.8	33.61	8.2	24.2	2.28
I25	24 Aug 2021	5	17.35	67.38	8.6	33.67	8.2	24.4	2.76
I25	24 Aug 2021	6	16.17	67.95	7.8	33.61	8.1	24.6	3.63
I25	24 Aug 2021	7	15.81	69.94	7.2	33.58	8.1	24.7	4.36
I25	24 Aug 2021	8	15.46	72.14	7.0	33.58	8.0	24.8	4.74
I25	24 Aug 2021	9	15.30	74.21	6.9	33.56	8.0	24.8	5.08
I25	31 Aug 2021	1	17.83	77.57	8.4	33.46	8.1	24.1	1.33
I25	31 Aug 2021	2	17.78	80.69	8.4	33.46	8.1	24.1	1.35
I25	31 Aug 2021	3	17.69	80.28	8.4	33.48	8.1	24.2	1.35
I25	31 Aug 2021	4	17.44	79.26	8.5	33.50	8.1	24.3	1.41
I25	31 Aug 2021	5	16.79	78.35	8.5	33.63	8.1	24.5	1.68
I25	31 Aug 2021	6	15.32	77.12	8.6	33.67	8.1	24.9	2.01
I25	31 Aug 2021	7	13.55	71.91	8.2	33.79	8.1	25.3	2.31
I25	31 Aug 2021	8	12.94	65.63	6.8	33.61	7.9	25.3	2.94
I25	31 Aug 2021	9	12.94	64.34	6.1	33.58	7.9	25.3	3.48
I26	02 Aug 2021	1	15.69	71.59	8.8	33.53	8.2	24.7	1.28
I26	02 Aug 2021	2	15.68	71.69	8.7	33.53	8.2	24.7	1.30
I26	02 Aug 2021	3	15.54	70.99	8.8	33.57	8.2	24.8	1.33
I26	02 Aug 2021	4	15.21	69.08	8.8	33.57	8.2	24.8	1.35
I26	02 Aug 2021	5	15.04	67.80	8.8	33.57	8.2	24.9	1.45
I26	02 Aug 2021	6	14.61	67.68	8.6	33.62	8.2	25.0	1.66
I26	02 Aug 2021	7	13.80	61.56	8.1	33.69	8.1	25.2	2.11
I26	02 Aug 2021	8	12.92	72.51	7.4	33.75	8.1	25.4	2.64
I26	02 Aug 2021	9	12.44	74.12	6.7	33.65	8.0	25.5	3.94
I26	09 Aug 2021	1	19.51	73.22	8.5	33.47	8.1	23.7	1.60
I26	09 Aug 2021	2	19.47	73.17	8.5	33.51	8.1	23.8	1.60
I26	09 Aug 2021	3	19.25	73.06	8.5	33.52	8.1	23.8	1.59
I26	09 Aug 2021	4	18.91	71.06	8.6	33.54	8.1	23.9	1.64
I26	09 Aug 2021	5	18.74	71.05	8.7	33.54	8.1	24.0	1.85
I26	09 Aug 2021	6	17.82	73.45	8.8	33.63	8.2	24.3	2.27

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I26	09 Aug 2021	7	17.47	75.85	9.0	33.56	8.2	24.3	2.66
I26	09 Aug 2021	8	17.04	77.42	9.0	33.60	8.2	24.4	2.92
I26	09 Aug 2021	9	16.44	76.95	8.8	33.59	8.1	24.6	2.89
I26	17 Aug 2021	1	20.55	76.07	8.7	33.53	8.2	23.5	1.21
I26	17 Aug 2021	2	20.39	74.38	8.7	33.57	8.2	23.6	1.17
I26	17 Aug 2021	3	19.91	76.87	8.8	33.58	8.2	23.7	1.15
I26	17 Aug 2021	4	19.75	76.27	9.0	33.54	8.2	23.7	1.19
I26	17 Aug 2021	5	19.73	74.57	9.1	33.53	8.2	23.7	1.43
I26	17 Aug 2021	6	19.71	73.35	9.0	33.53	8.2	23.7	1.84
I26	17 Aug 2021	7	19.41	72.92	8.7	33.59	8.2	23.8	2.24
I26	17 Aug 2021	8	17.88	70.48	8.2	33.75	8.1	24.3	2.58
I26	17 Aug 2021	9	15.86	66.80	7.7	33.81	8.1	24.9	2.90
I26	24 Aug 2021	1	19.39	69.66	8.7	33.53	8.2	23.8	2.42
I26	24 Aug 2021	2	19.32	69.75	8.7	33.55	8.2	23.8	2.43
I26	24 Aug 2021	3	19.01	69.10	8.6	33.58	8.2	23.9	2.44
I26	24 Aug 2021	4	18.34	69.43	8.7	33.63	8.2	24.1	2.54
I26	24 Aug 2021	5	17.63	68.92	8.9	33.61	8.2	24.3	2.77
I26	24 Aug 2021	6	16.95	67.64	8.8	33.64	8.2	24.5	3.21
I26	24 Aug 2021	7	16.26	67.38	8.0	33.62	8.1	24.6	3.75
I26	24 Aug 2021	8	15.92	72.87	7.0	33.59	8.1	24.7	4.54
I26	24 Aug 2021	9	15.62	75.35	6.7	33.57	8.0	24.7	5.03
I26	31 Aug 2021	1	18.16	80.24	8.5	33.47	8.1	24.1	1.43
I26	31 Aug 2021	2	18.07	80.28	8.5	33.49	8.1	24.1	1.45
I26	31 Aug 2021	3	17.93	80.49	8.5	33.49	8.1	24.1	1.44
I26	31 Aug 2021	4	17.68	80.32	8.5	33.52	8.1	24.2	1.48
I26	31 Aug 2021	5	16.89	78.64	8.5	33.62	8.1	24.5	1.62
I26	31 Aug 2021	6	15.19	78.07	8.7	33.63	8.1	24.9	1.89
I26	31 Aug 2021	7	14.12	79.96	8.8	33.58	8.1	25.1	2.16
I26	31 Aug 2021	8	14.00	77.89	8.4	33.48	8.0	25.0	2.13
I26	31 Aug 2021	9	13.48	80.03	7.9	33.57	8.0	25.2	2.21
I32	02 Aug 2021	1	15.84	73.00	8.5	33.51	8.2	24.6	0.96
I32	02 Aug 2021	2	15.82	73.30	8.5	33.51	8.2	24.6	0.96
I32	02 Aug 2021	3	15.76	73.17	8.5	33.51	8.2	24.7	0.98
I32	02 Aug 2021	4	15.71	72.97	8.4	33.51	8.2	24.7	1.10
I32	02 Aug 2021	5	15.66	72.78	8.4	33.51	8.2	24.7	1.27
I32	02 Aug 2021	6	15.64	72.46	8.3	33.51	8.2	24.7	1.49
I32	02 Aug 2021	7	15.53	71.00	7.9	33.51	8.1	24.7	1.68
I32	02 Aug 2021	8	13.96	65.25	6.7	33.66	8.1	25.2	2.08
I32	02 Aug 2021	9	12.56	60.65	5.7	33.58	7.9	25.4	3.15
I32	09 Aug 2021	1	19.35	66.25	8.9	33.50	8.2	23.8	2.17
I32	09 Aug 2021	2	19.04	63.47	8.9	33.52	8.2	23.9	2.34
I32	09 Aug 2021	3	19.01	61.31	8.8	33.48	8.2	23.9	3.50
I32	09 Aug 2021	4	18.80	62.08	8.7	33.51	8.2	23.9	4.84
I32	09 Aug 2021	5	18.07	65.93	8.7	33.53	8.1	24.1	5.50
I32	09 Aug 2021	6	17.93	67.13	8.6	33.50	8.1	24.1	5.77
I32	09 Aug 2021	7	17.58	69.61	8.6	33.53	8.1	24.3	5.38
I32	09 Aug 2021	8	16.73	72.35	8.6	33.56	8.1	24.5	4.65
I32	09 Aug 2021	9	16.44	73.06	8.5	33.53	8.1	24.5	3.84
I32	09 Aug 2021	10	16.08	70.45	8.3	33.55	8.1	24.6	3.29
I32	17 Aug 2021	1	20.70	72.07	8.9	33.52	8.2	23.4	1.90
I32	17 Aug 2021	2	20.63	72.05	8.9	33.53	8.2	23.5	1.91
I32	17 Aug 2021	3	20.51	72.28	8.9	33.54	8.2	23.5	1.92
I32	17 Aug 2021	4	20.35	70.70	9.1	33.54	8.2	23.6	2.02
I32	17 Aug 2021	5	20.28	62.52	9.2	33.53	8.2	23.6	2.30
I32	17 Aug 2021	6	20.27	62.09	9.1	33.52	8.2	23.6	3.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I32	17 Aug 2021	7	20.27	63.89	8.9	33.53	8.2	23.6	4.38
I32	17 Aug 2021	8	20.25	64.58	8.8	33.53	8.2	23.6	5.37
I32	17 Aug 2021	9	19.87	65.23	8.1	33.62	8.2	23.7	5.79
I32	17 Aug 2021	10	16.35	53.26	6.8	34.03	8.1	24.9	5.87
I32	24 Aug 2021	1	19.20	69.06	8.3	33.53	8.2	23.8	2.01
I32	24 Aug 2021	2	19.11	68.97	8.3	33.54	8.2	23.9	2.05
I32	24 Aug 2021	3	18.91	68.65	8.3	33.58	8.2	24.0	2.11
I32	24 Aug 2021	4	18.58	66.30	8.4	33.56	8.2	24.0	2.29
I32	24 Aug 2021	5	17.94	63.10	8.4	33.63	8.2	24.2	2.86
I32	24 Aug 2021	6	17.12	64.77	8.4	33.57	8.2	24.4	3.74
I32	24 Aug 2021	7	16.89	64.50	8.3	33.58	8.2	24.4	4.80
I32	24 Aug 2021	8	16.46	64.07	8.2	33.56	8.1	24.5	5.15
I32	24 Aug 2021	9	16.42	65.40	8.1	33.54	8.1	24.5	5.73
I32	24 Aug 2021	10	16.32	65.46	8.0	33.55	8.1	24.6	6.35
I32	31 Aug 2021	1	18.67	79.77	8.3	33.50	8.1	24.0	1.01
I32	31 Aug 2021	2	18.62	80.36	8.4	33.50	8.1	24.0	1.02
I32	31 Aug 2021	3	18.47	80.12	8.3	33.52	8.1	24.0	1.03
I32	31 Aug 2021	4	18.24	79.22	8.4	33.52	8.1	24.1	1.13
I32	31 Aug 2021	5	17.86	78.36	8.3	33.55	8.1	24.2	1.29
I32	31 Aug 2021	6	17.65	74.28	8.1	33.49	8.1	24.2	1.58
I32	31 Aug 2021	7	15.59	71.56	8.2	33.81	8.1	24.9	2.04
I32	31 Aug 2021	8	14.34	71.62	8.7	33.58	8.1	25.0	2.40
I32	31 Aug 2021	9	13.96	72.26	8.7	33.58	8.1	25.1	3.22
I32	31 Aug 2021	10	13.47	73.06	8.5	33.54	8.1	25.2	3.91
I39	02 Aug 2021	1	15.54	74.82	8.7	33.53	8.2	24.7	0.90
I39	02 Aug 2021	2	15.46	74.88	8.7	33.54	8.2	24.7	0.90
I39	02 Aug 2021	3	15.32	74.85	8.6	33.54	8.2	24.8	0.96
I39	02 Aug 2021	4	14.86	73.07	8.7	33.57	8.2	24.9	1.07
I39	02 Aug 2021	5	14.27	71.40	8.8	33.54	8.2	25.0	1.42
I39	02 Aug 2021	6	14.16	70.33	8.8	33.53	8.2	25.0	1.98
I39	02 Aug 2021	7	13.70	68.65	8.7	33.57	8.2	25.1	2.57
I39	02 Aug 2021	8	13.26	68.17	8.5	33.56	8.2	25.2	3.43
I39	02 Aug 2021	9	13.14	69.68	8.3	33.55	8.2	25.2	5.00
I39	02 Aug 2021	10	12.91	70.87	8.0	33.56	8.1	25.3	6.16
I39	02 Aug 2021	11	12.80	71.02	7.8	33.55	8.1	25.3	7.25
I39	02 Aug 2021	12	12.68	69.27	7.5	33.57	8.1	25.3	8.28
I39	02 Aug 2021	13	12.43	70.12	7.0	33.59	8.1	25.4	9.12
I39	02 Aug 2021	14	12.33	75.96	6.5	33.59	8.0	25.4	9.63
I39	02 Aug 2021	15	12.00	83.07	5.8	33.62	8.0	25.5	8.29
I39	02 Aug 2021	16	11.92	84.53	5.4	33.62	8.0	25.5	6.00
I39	02 Aug 2021	17	11.86	85.17	5.3	33.62	7.9	25.5	4.10
I39	02 Aug 2021	18	11.86	84.89	5.2	33.62	7.9	25.5	2.51
I39	09 Aug 2021	1	18.82	75.41	9.2	33.46	8.2	23.9	0.98
I39	09 Aug 2021	2	18.63	75.19	9.3	33.53	8.2	24.0	1.03
I39	09 Aug 2021	3	18.15	74.37	9.7	33.55	8.2	24.1	1.39
I39	09 Aug 2021	4	17.20	76.26	9.7	33.59	8.2	24.4	1.89
I39	09 Aug 2021	5	16.67	76.41	9.6	33.63	8.2	24.5	1.91
I39	09 Aug 2021	6	15.98	77.21	9.6	33.55	8.2	24.6	1.97
I39	09 Aug 2021	7	15.43	77.29	9.2	33.65	8.1	24.8	2.21
I39	09 Aug 2021	8	14.82	76.91	8.7	33.58	8.1	24.9	2.24
I39	09 Aug 2021	9	14.67	76.32	8.4	33.56	8.1	24.9	2.58
I39	09 Aug 2021	10	14.50	76.05	8.3	33.56	8.1	25.0	3.13
I39	09 Aug 2021	11	14.37	76.19	8.2	33.56	8.1	25.0	3.53
I39	09 Aug 2021	12	14.24	76.40	8.1	33.56	8.1	25.0	3.86
I39	09 Aug 2021	13	14.12	76.52	7.9	33.57	8.0	25.1	4.28
I39	09 Aug 2021	14	14.04	76.83	7.7	33.56	8.0	25.1	4.37
I39	09 Aug 2021	15	14.02	76.83	7.7	33.56	8.0	25.1	4.51

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I39	09 Aug 2021	16	14.01	76.96	7.6	33.56	8.0	25.1	4.47
I39	09 Aug 2021	17	14.00	77.31	7.6	33.56	8.0	25.1	4.54
I39	09 Aug 2021	18	14.00	77.97	7.5	33.57	8.0	25.1	4.36
I39	17 Aug 2021	1	20.19	76.51	8.8	33.55	8.2	23.6	1.29
I39	17 Aug 2021	2	20.16	73.32	8.8	33.55	8.2	23.6	1.32
I39	17 Aug 2021	3	20.10	76.57	8.8	33.55	8.2	23.6	1.32
I39	17 Aug 2021	4	20.03	76.57	8.9	33.55	8.2	23.7	1.34
I39	17 Aug 2021	5	19.83	76.57	8.8	33.58	8.2	23.7	1.44
I39	17 Aug 2021	6	19.14	76.56	8.7	33.63	8.2	23.9	1.55
I39	17 Aug 2021	7	17.91	76.43	8.8	33.64	8.2	24.3	1.69
I39	17 Aug 2021	8	17.49	77.30	8.8	33.55	8.2	24.3	1.85
I39	17 Aug 2021	9	17.38	77.25	8.9	33.53	8.2	24.3	2.07
I39	17 Aug 2021	10	17.25	77.61	9.0	33.51	8.2	24.3	2.38
I39	17 Aug 2021	11	17.18	77.44	9.0	33.50	8.2	24.3	2.80
I39	17 Aug 2021	12	16.75	76.71	8.8	33.58	8.2	24.5	3.03
I39	17 Aug 2021	13	15.62	75.05	8.7	33.63	8.1	24.8	3.31
I39	17 Aug 2021	14	15.34	72.90	8.0	33.56	8.1	24.8	3.85
I39	17 Aug 2021	15	14.54	70.82	7.1	33.66	8.0	25.0	4.44
I39	17 Aug 2021	16	14.10	76.04	6.4	33.60	8.0	25.1	5.38
I39	17 Aug 2021	17	13.81	79.23	6.1	33.61	7.9	25.2	5.59
I39	17 Aug 2021	18	13.51	80.33	5.8	33.60	7.9	25.2	5.17
I39	24 Aug 2021	1	19.83	72.28	8.6	33.55	8.2	23.7	1.66
I39	24 Aug 2021	2	19.77	72.48	8.6	33.55	8.2	23.7	1.70
I39	24 Aug 2021	3	19.67	72.35	8.6	33.57	8.2	23.8	1.74
I39	24 Aug 2021	4	18.99	72.56	8.5	33.63	8.2	24.0	1.98
I39	24 Aug 2021	5	18.40	73.51	8.5	33.60	8.2	24.1	2.33
I39	24 Aug 2021	6	17.46	74.66	8.6	33.67	8.2	24.4	2.56
I39	24 Aug 2021	7	16.14	74.05	8.8	33.66	8.2	24.7	2.77
I39	24 Aug 2021	8	15.37	72.44	8.6	33.64	8.2	24.8	3.13
I39	24 Aug 2021	9	14.77	69.97	8.1	33.63	8.1	25.0	3.80
I39	24 Aug 2021	10	14.49	69.80	7.7	33.59	8.1	25.0	5.07
I39	24 Aug 2021	11	14.20	72.16	7.2	33.58	8.1	25.1	6.08
I39	24 Aug 2021	12	13.99	74.78	6.6	33.57	8.0	25.1	6.25
I39	24 Aug 2021	13	13.93	76.30	6.5	33.56	8.0	25.1	5.41
I39	24 Aug 2021	14	13.85	76.92	6.5	33.56	8.0	25.1	4.58
I39	24 Aug 2021	15	13.69	77.29	6.4	33.58	8.0	25.2	4.00
I39	24 Aug 2021	16	13.44	79.22	6.2	33.58	8.0	25.2	3.56
I39	24 Aug 2021	17	13.42	80.84	6.0	33.55	8.0	25.2	3.11
I39	24 Aug 2021	18	13.40	81.49	6.0	33.55	8.0	25.2	2.43
I39	31 Aug 2021	1	17.48	84.10	8.4	33.32	8.1	24.1	0.63
I39	31 Aug 2021	2	16.45	84.14	8.4	33.47	8.1	24.5	0.62
I39	31 Aug 2021	3	15.86	84.12	8.6	33.32	8.1	24.5	0.64
I39	31 Aug 2021	4	15.69	84.09	8.6	33.31	8.1	24.5	0.63
I39	31 Aug 2021	5	15.12	83.81	8.7	33.37	8.1	24.7	0.68
I39	31 Aug 2021	6	14.77	83.01	8.8	33.32	8.1	24.7	0.71
I39	31 Aug 2021	7	14.24	81.34	9.0	33.33	8.1	24.8	0.80
I39	31 Aug 2021	8	13.94	81.47	9.0	33.33	8.1	24.9	0.95
I39	31 Aug 2021	9	13.71	80.28	9.0	33.31	8.1	24.9	1.09
I39	31 Aug 2021	10	13.58	79.05	9.1	33.31	8.1	25.0	1.21
I39	31 Aug 2021	11	13.37	76.20	9.1	33.31	8.1	25.0	1.44
I39	31 Aug 2021	12	13.17	70.28	8.9	33.31	8.1	25.1	1.72
I39	31 Aug 2021	13	13.14	70.21	8.7	33.30	8.0	25.0	2.48
I39	31 Aug 2021	14	13.12	71.35	8.5	33.30	8.0	25.1	4.06
I39	31 Aug 2021	15	13.09	72.57	8.3	33.31	8.0	25.1	5.83
I39	31 Aug 2021	16	13.07	73.31	7.7	33.38	8.0	25.1	7.41
I39	31 Aug 2021	17	12.85	75.96	6.7	33.43	7.9	25.2	7.79
I39	31 Aug 2021	18	12.78	80.38	5.9	33.39	7.8	25.2	7.98

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I40	02 Aug 2021	1	16.04	73.38	8.5	33.52	8.2	24.6	0.95
I40	02 Aug 2021	2	15.98	73.20	8.4	33.52	8.2	24.6	1.00
I40	02 Aug 2021	3	15.81	73.02	8.2	33.52	8.2	24.7	1.07
I40	02 Aug 2021	4	15.38	72.84	8.0	33.53	8.1	24.8	1.20
I40	02 Aug 2021	5	14.93	70.96	7.5	33.57	8.1	24.9	1.29
I40	02 Aug 2021	6	13.89	68.08	6.9	33.57	8.1	25.1	1.67
I40	02 Aug 2021	7	13.64	64.52	6.3	33.57	8.0	25.2	2.46
I40	02 Aug 2021	8	12.55	66.00	5.8	33.61	8.0	25.4	3.16
I40	02 Aug 2021	9	12.36	62.45	5.4	33.58	8.0	25.4	3.33
I40	02 Aug 2021	10	12.34	56.00	5.4	33.58	7.9	25.4	3.04
I40	09 Aug 2021	1	18.38	71.39	8.8	33.47	8.1	24.0	1.82
I40	09 Aug 2021	2	18.24	71.18	8.8	33.54	8.1	24.1	1.78
I40	09 Aug 2021	3	17.66	71.90	8.8	33.58	8.1	24.3	1.83
I40	09 Aug 2021	4	17.40	74.24	8.9	33.53	8.1	24.3	1.97
I40	09 Aug 2021	5	17.15	75.18	9.0	33.55	8.1	24.4	2.04
I40	09 Aug 2021	6	16.98	75.75	9.0	33.55	8.1	24.4	2.08
I40	09 Aug 2021	7	16.58	76.06	8.9	33.59	8.1	24.5	2.18
I40	09 Aug 2021	8	16.00	75.59	8.9	33.60	8.1	24.7	2.31
I40	09 Aug 2021	9	15.76	75.70	8.8	33.57	8.1	24.7	2.41
I40	09 Aug 2021	10	15.61	72.71	8.6	33.55	8.1	24.7	2.68
I40	17 Aug 2021	1	21.06	65.15	8.9	33.52	8.2	23.4	2.82
I40	17 Aug 2021	2	20.68	66.75	8.9	33.59	8.2	23.5	2.83
I40	17 Aug 2021	3	20.50	69.27	9.0	33.54	8.2	23.5	2.90
I40	17 Aug 2021	4	20.43	70.40	8.9	33.54	8.2	23.5	3.03
I40	17 Aug 2021	5	20.22	70.72	8.8	33.56	8.2	23.6	3.24
I40	17 Aug 2021	6	19.78	70.36	8.7	33.59	8.2	23.7	3.53
I40	17 Aug 2021	7	19.01	68.74	8.3	33.65	8.2	24.0	4.29
I40	17 Aug 2021	8	18.10	65.65	7.5	33.66	8.1	24.2	4.97
I40	17 Aug 2021	9	16.68	57.94	6.8	33.81	8.1	24.7	5.33
I40	17 Aug 2021	10	15.57	54.27	6.3	33.75	8.0	24.9	5.81
I40	24 Aug 2021	1	17.78	67.52	8.5	33.52	8.2	24.2	2.57
I40	24 Aug 2021	2	17.20	65.78	8.5	33.61	8.2	24.4	2.48
I40	24 Aug 2021	3	16.35	63.02	8.7	33.59	8.2	24.6	2.67
I40	24 Aug 2021	4	15.95	62.51	8.6	33.56	8.2	24.6	3.61
I40	24 Aug 2021	5	15.82	64.33	8.2	33.53	8.1	24.7	4.85
I40	24 Aug 2021	6	15.57	67.12	7.7	33.56	8.1	24.7	5.96
I40	24 Aug 2021	7	15.24	68.39	7.0	33.56	8.0	24.8	6.24
I40	24 Aug 2021	8	15.00	67.97	6.6	33.55	8.0	24.9	5.92
I40	24 Aug 2021	9	14.87	65.05	6.5	33.54	8.0	24.9	5.96
I40	24 Aug 2021	10	14.79	65.32	6.4	33.53	8.0	24.9	6.79
I40	31 Aug 2021	1	18.33	73.29	8.6	33.48	8.1	24.0	2.45
I40	31 Aug 2021	2	18.32	73.44	8.5	33.50	8.1	24.0	2.53
I40	31 Aug 2021	3	17.13	72.73	8.2	33.70	8.1	24.5	2.45
I40	31 Aug 2021	4	14.86	68.90	8.4	33.83	8.1	25.1	2.61
I40	31 Aug 2021	5	14.09	69.80	8.8	33.58	8.1	25.1	3.37
I40	31 Aug 2021	6	13.37	71.78	8.4	33.63	8.0	25.3	4.26
I40	31 Aug 2021	7	13.06	69.36	7.6	33.56	8.0	25.3	4.66
I40	31 Aug 2021	8	13.05	59.55	7.0	33.55	7.9	25.3	5.49
I40	31 Aug 2021	9	13.05	54.66	6.6	33.53	7.9	25.2	6.77
I40	31 Aug 2021	10	13.04	52.88	6.5	33.54	7.9	25.3	7.35

NA = not available

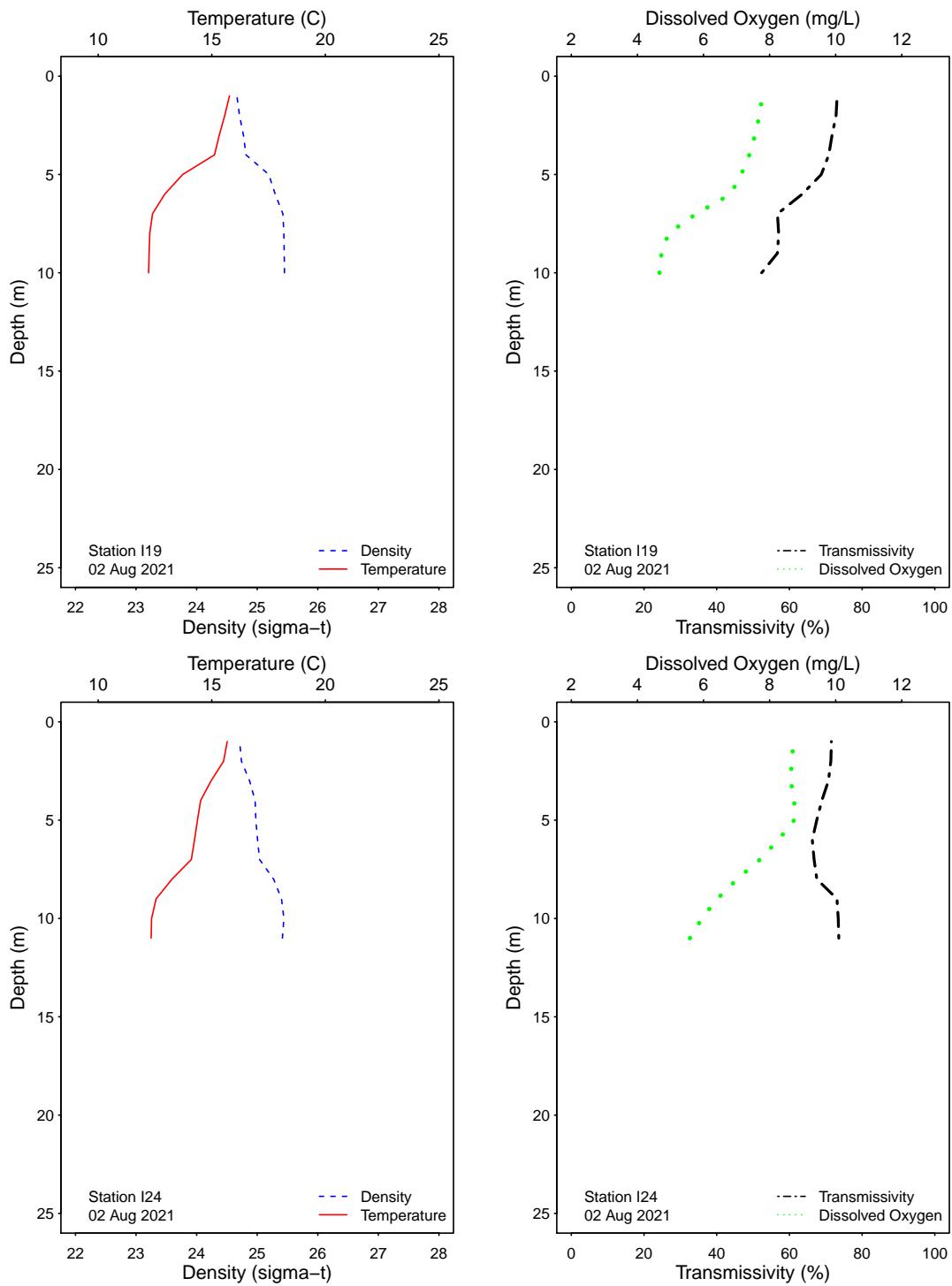


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

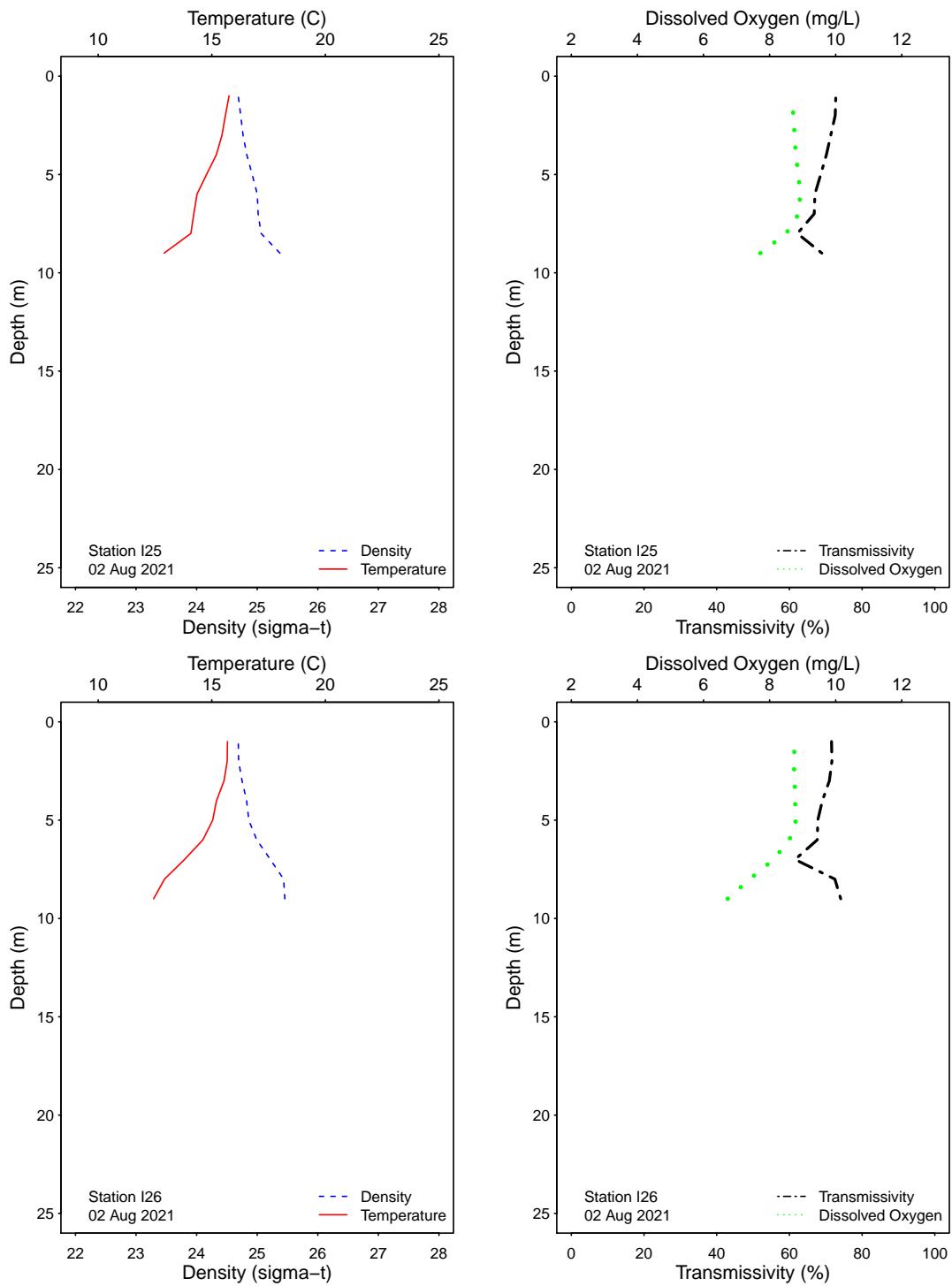


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

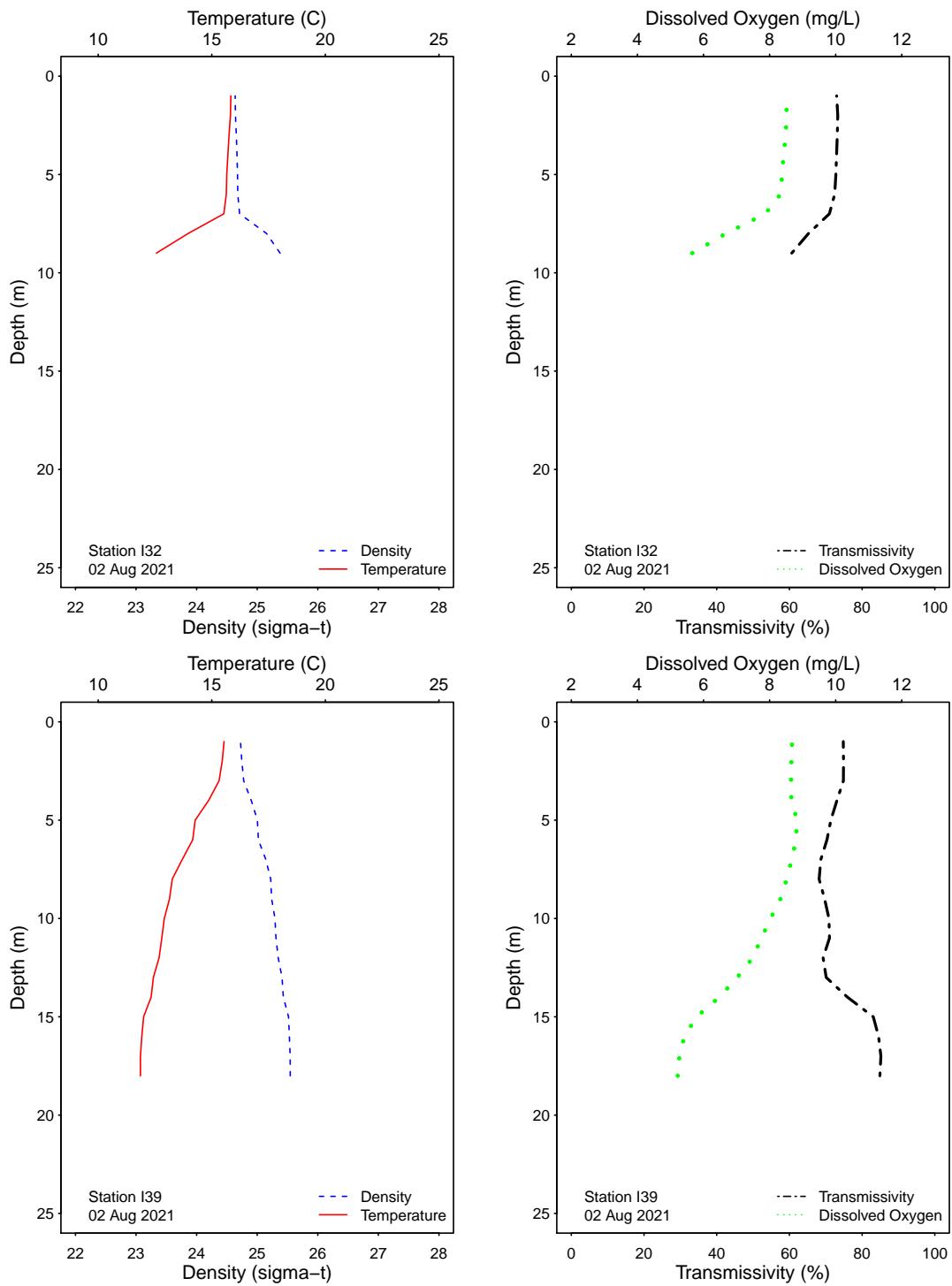


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

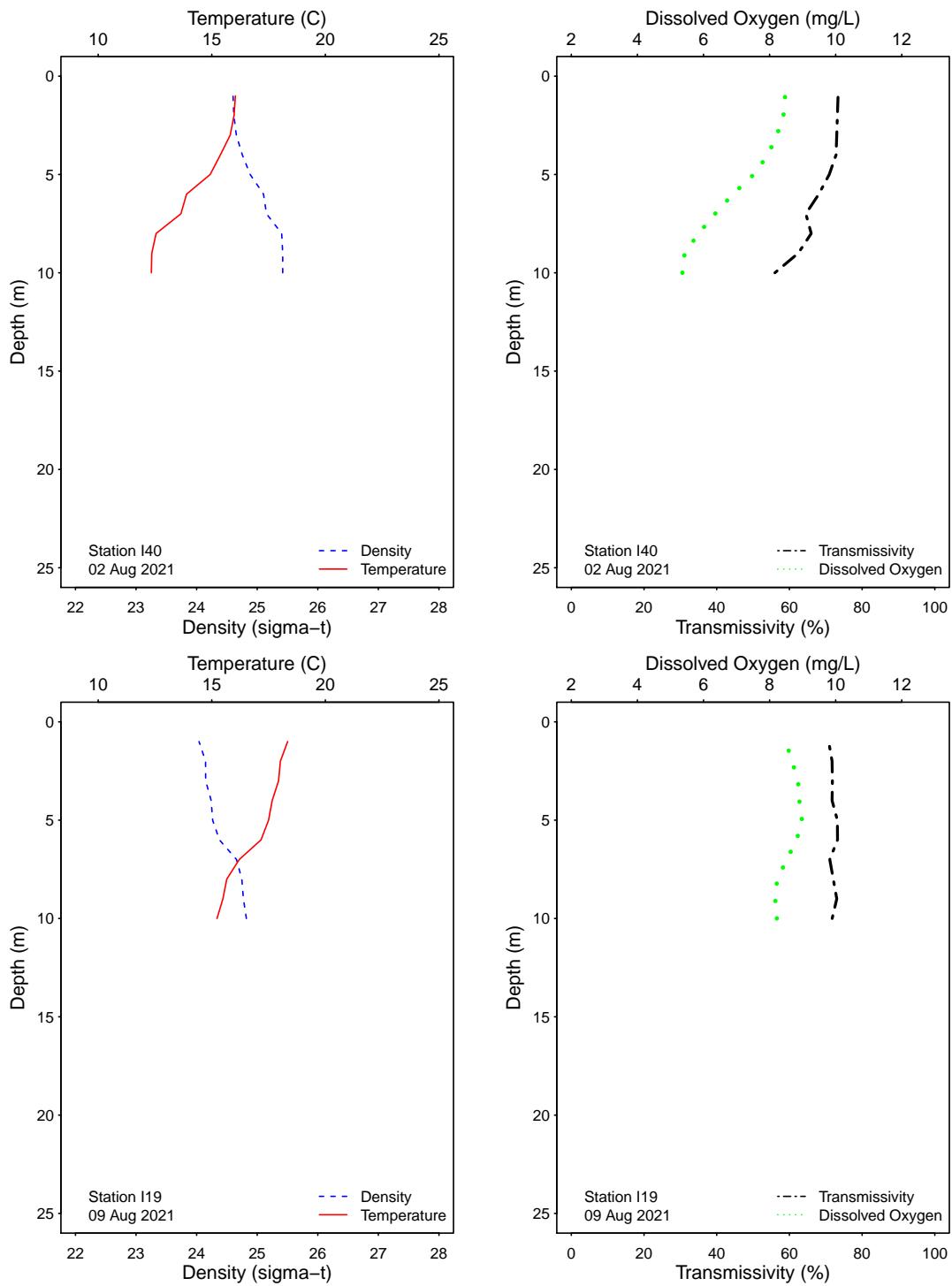


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

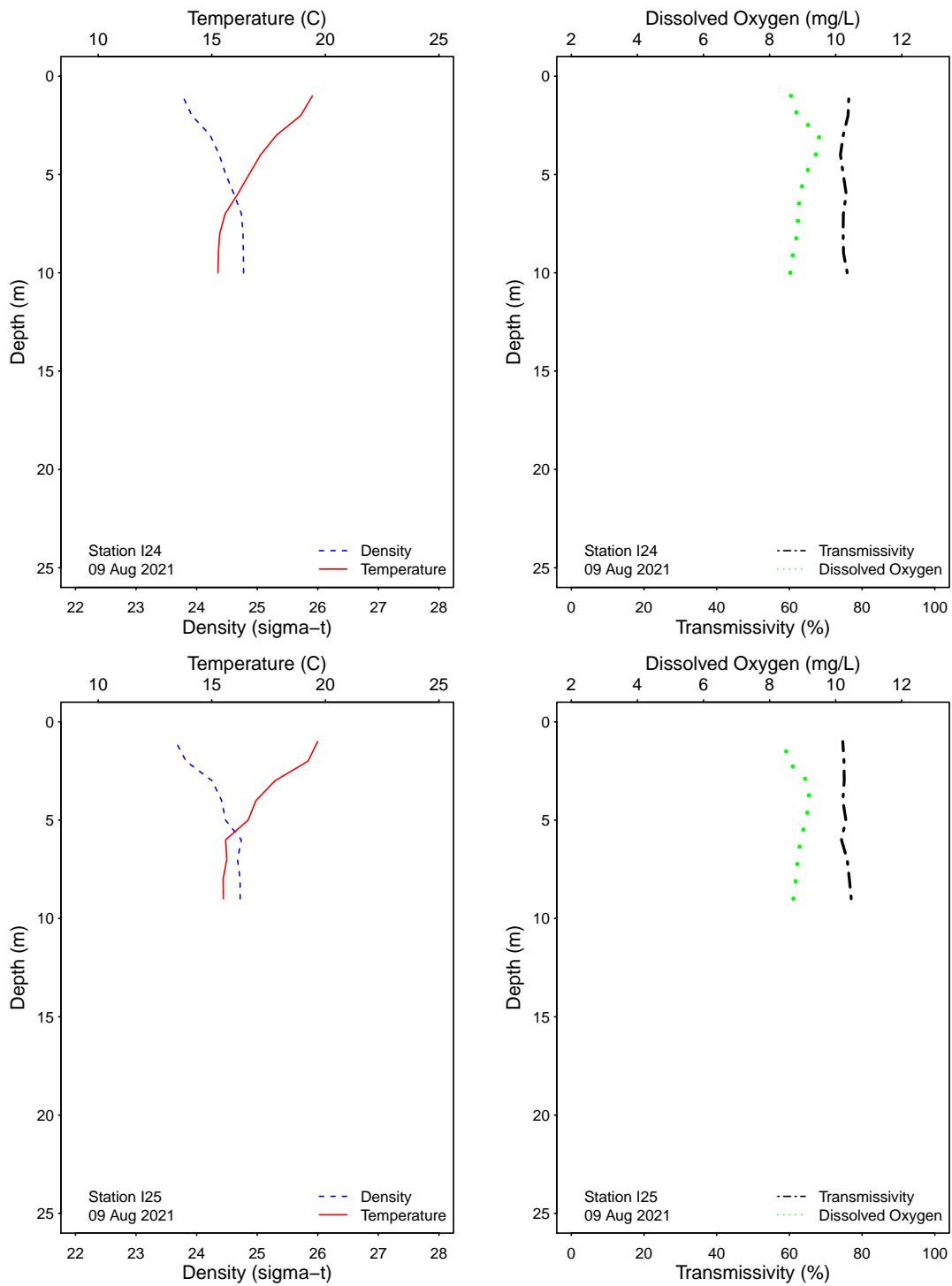


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

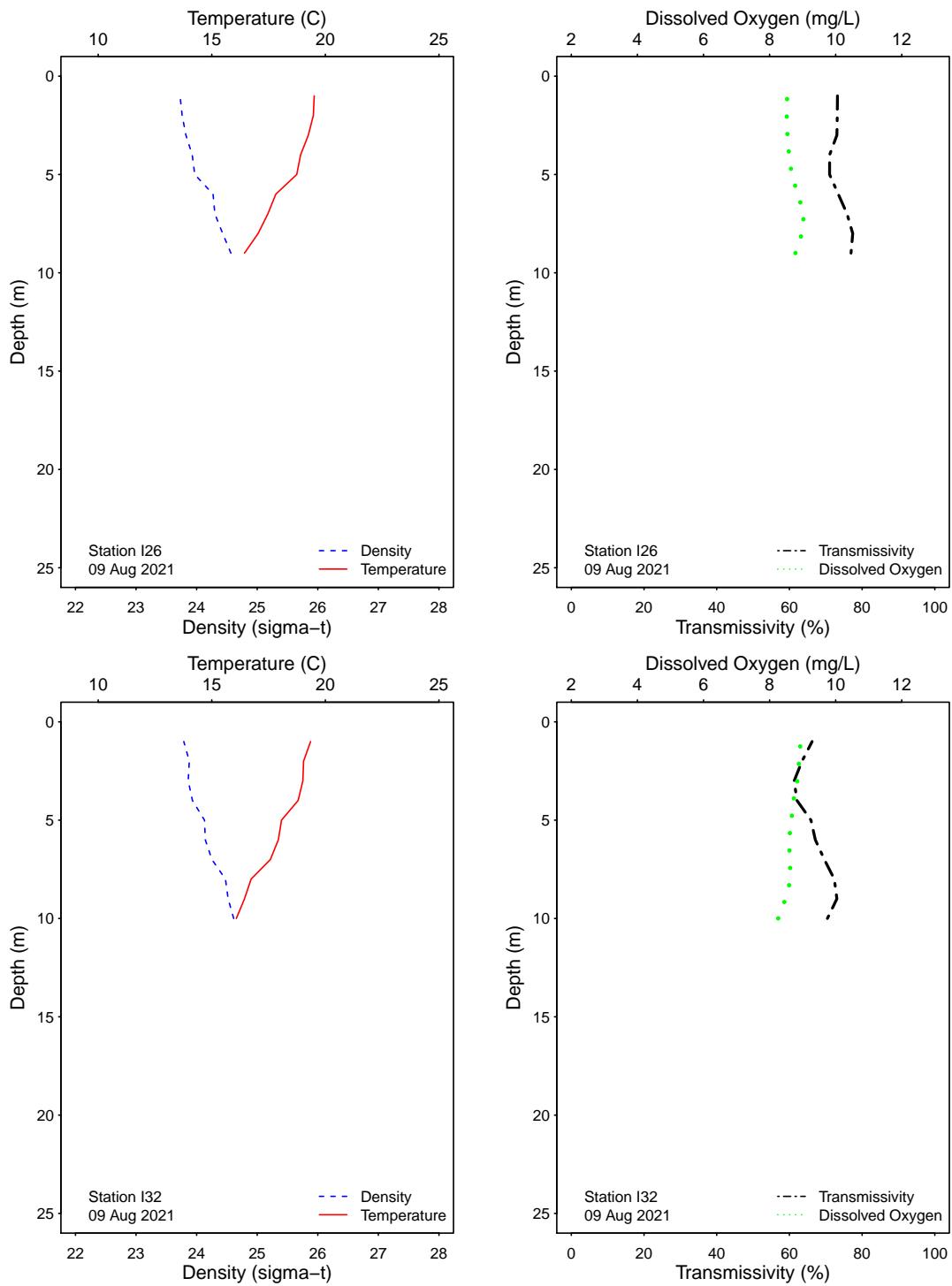


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

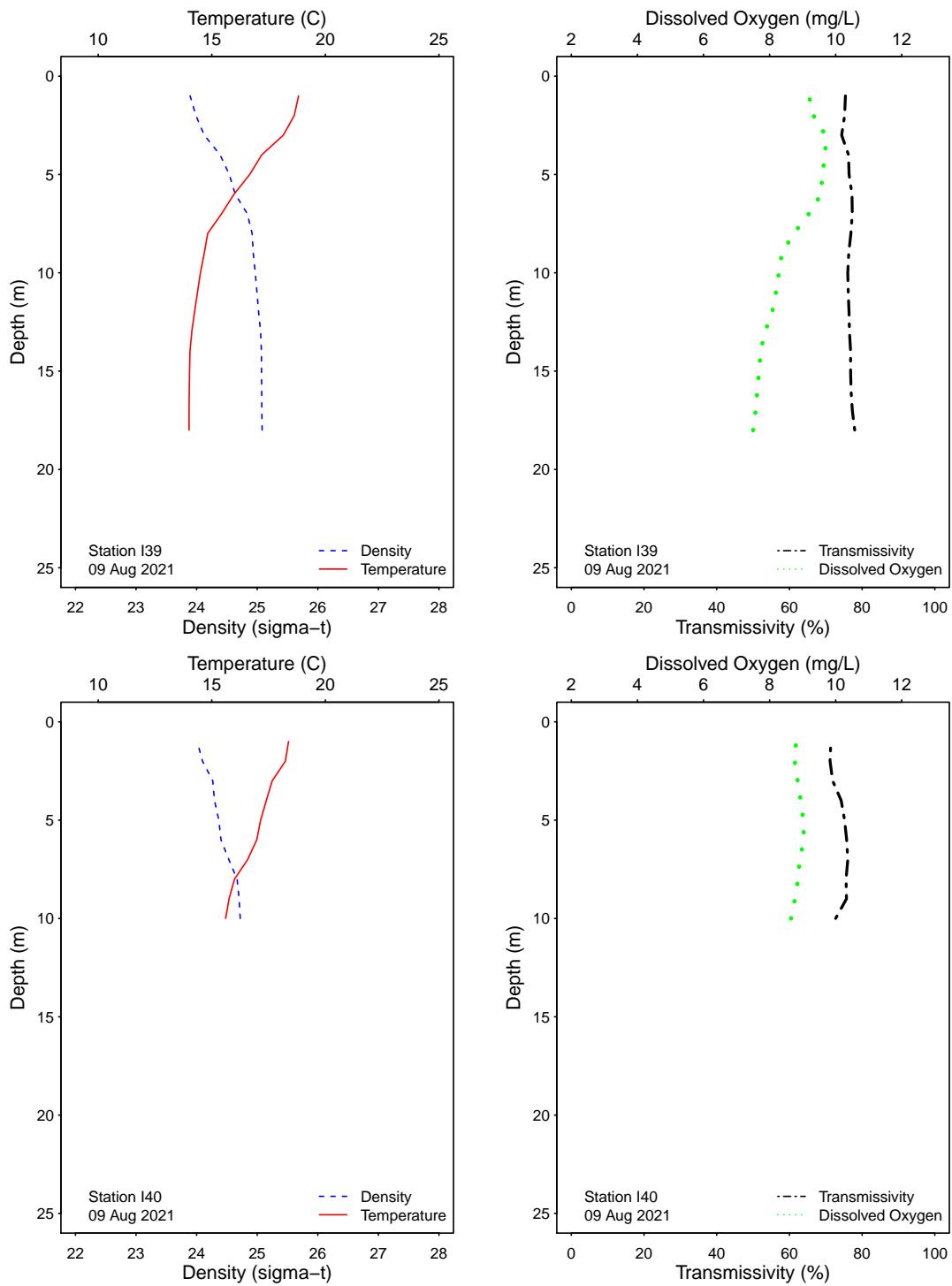


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

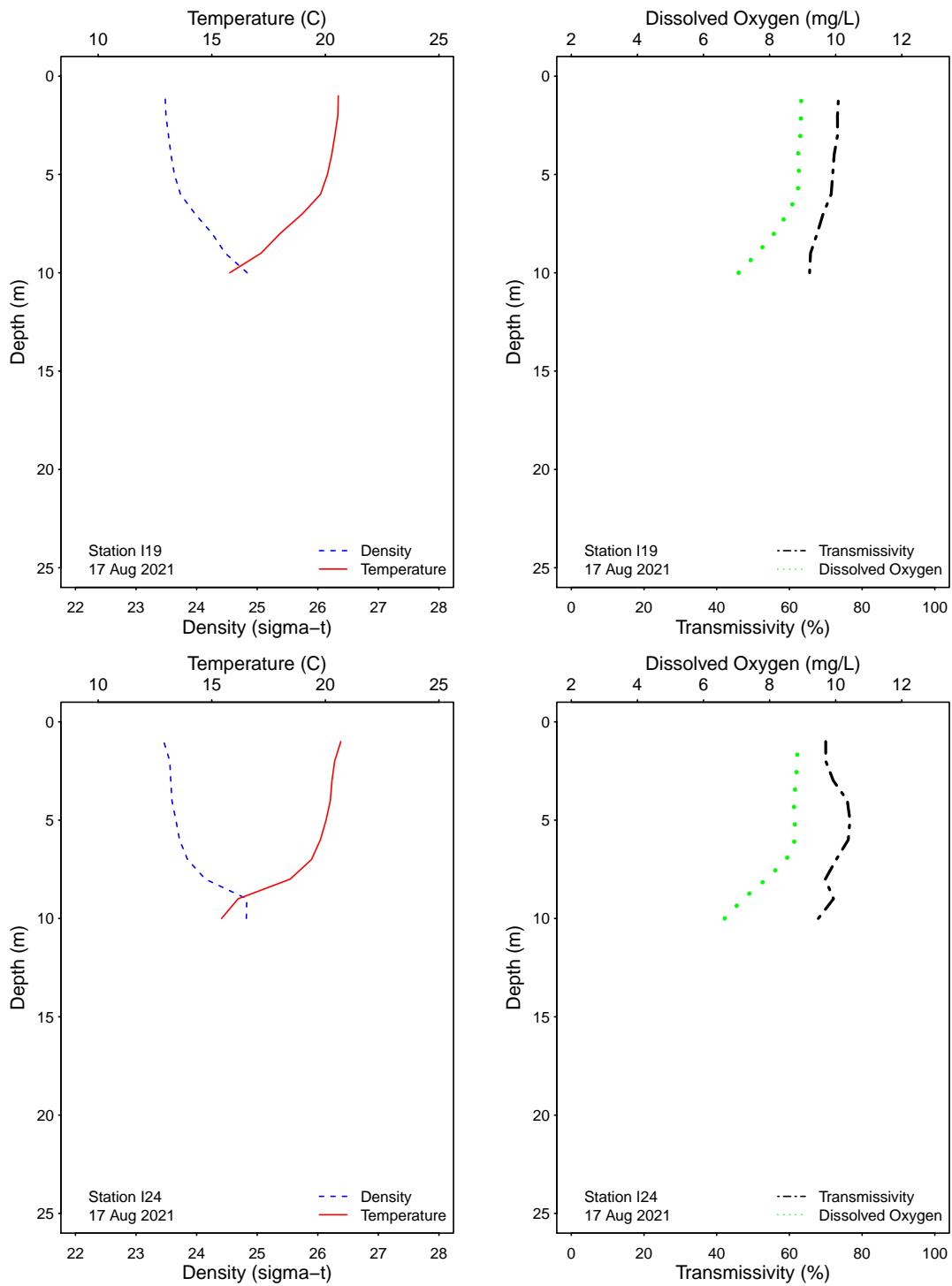


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

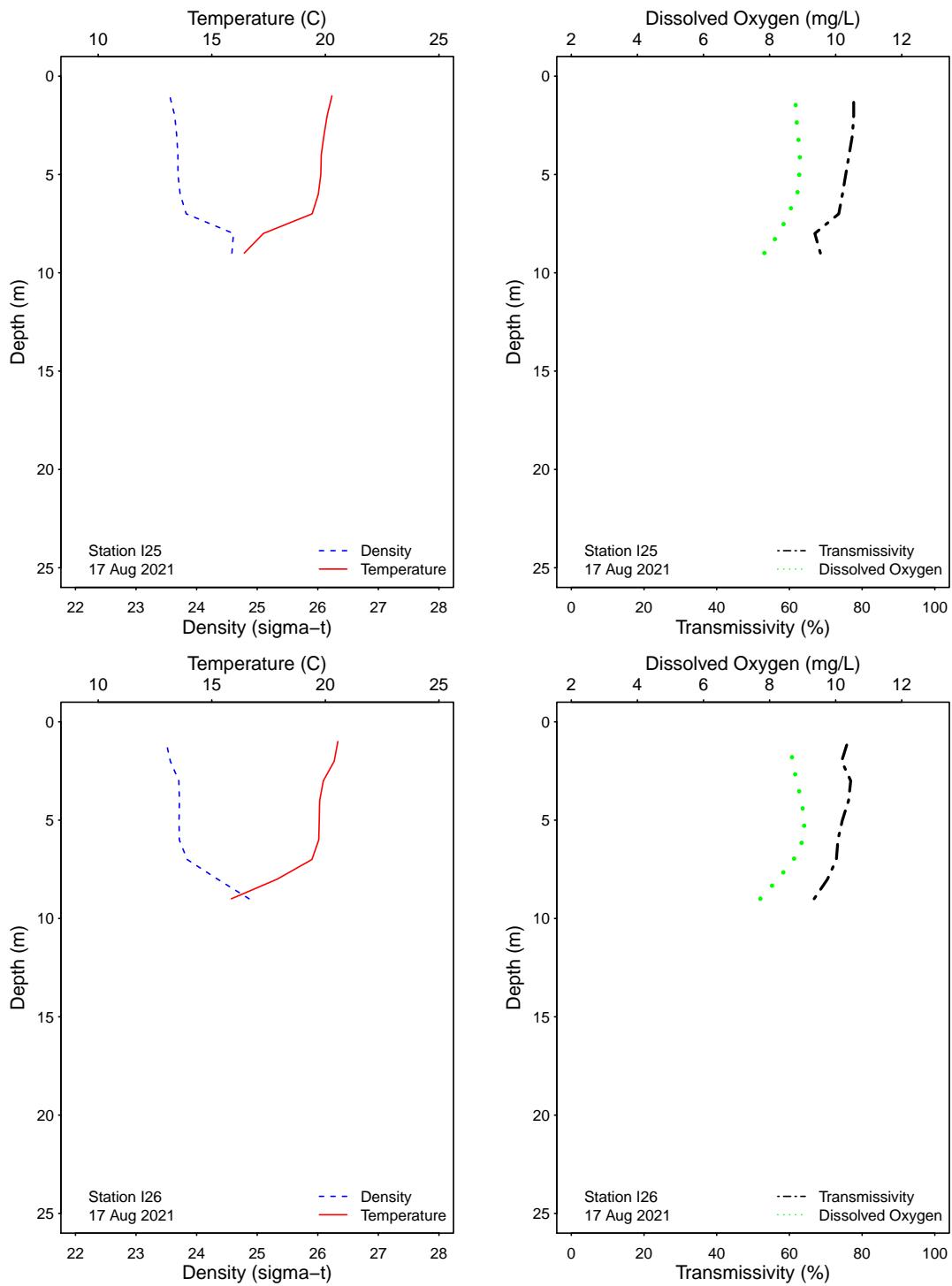


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

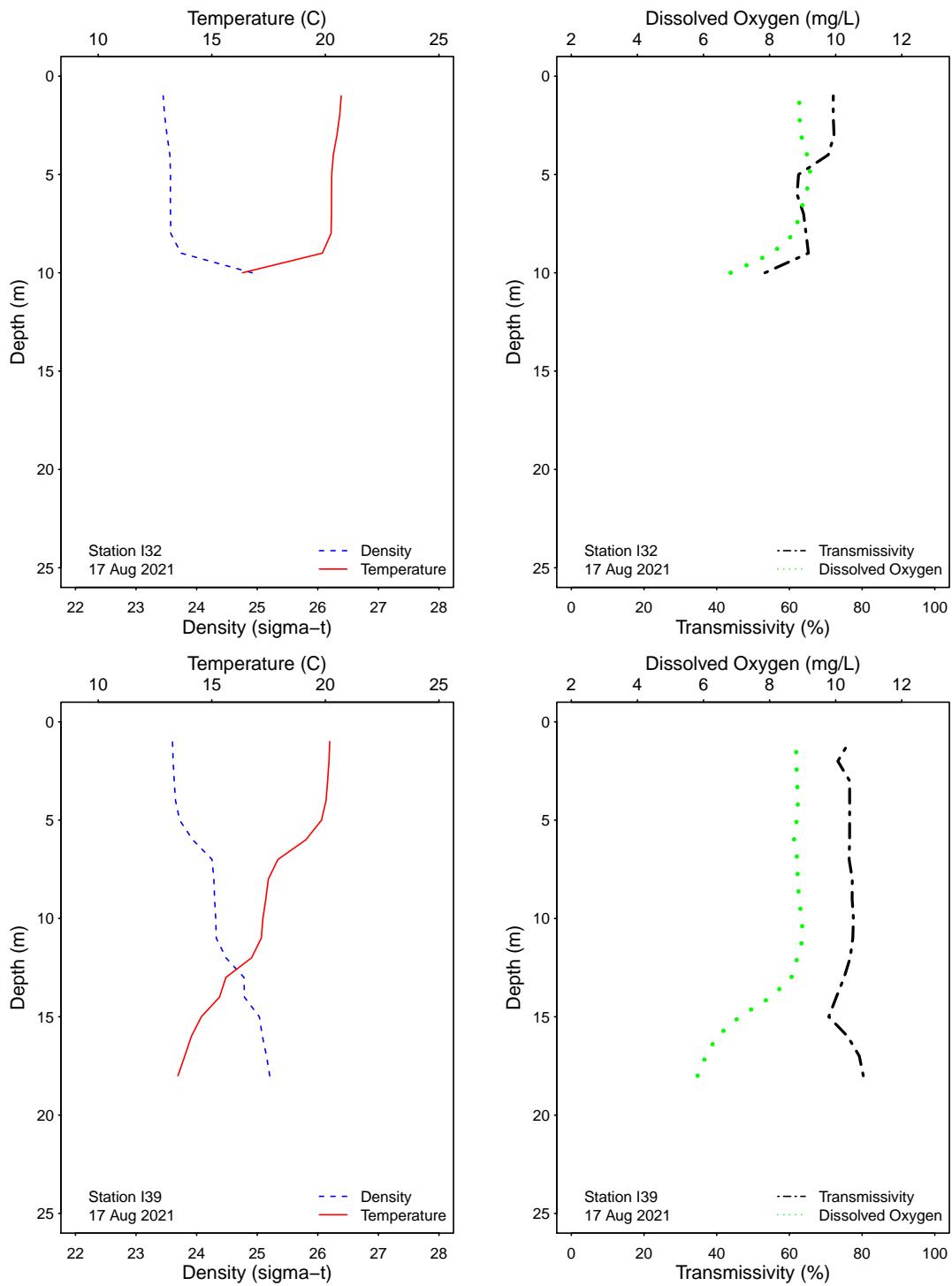


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

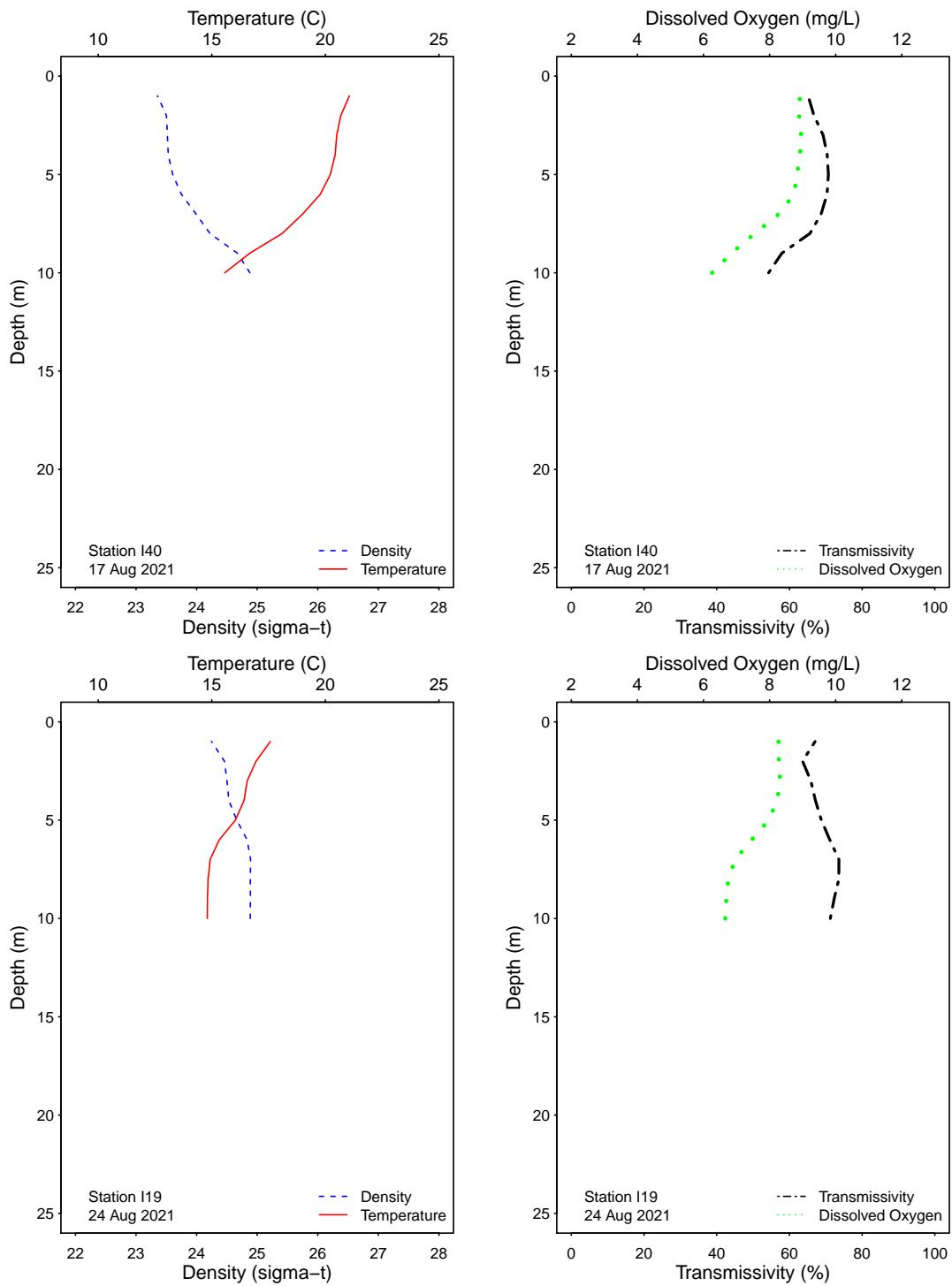


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

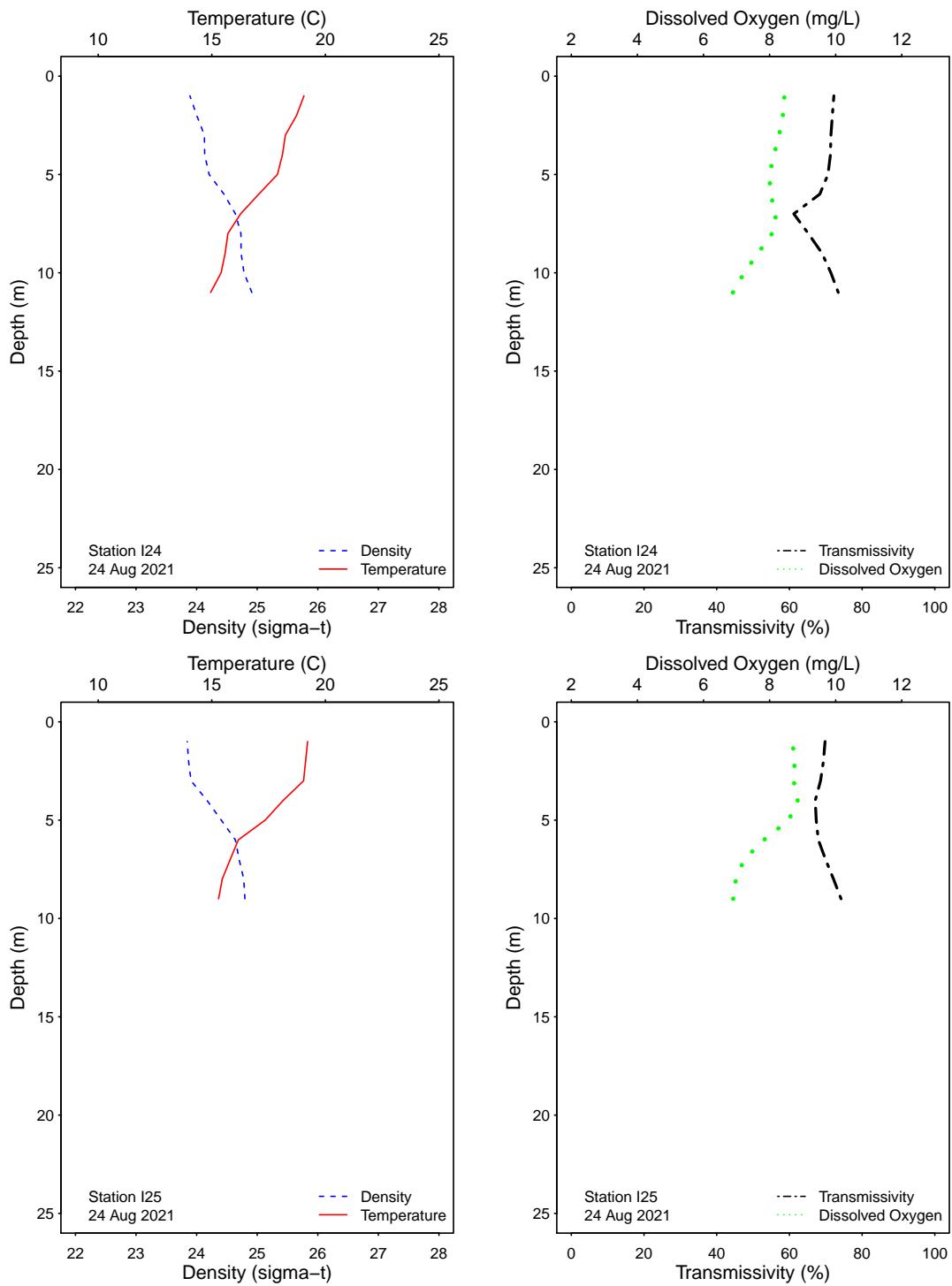


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

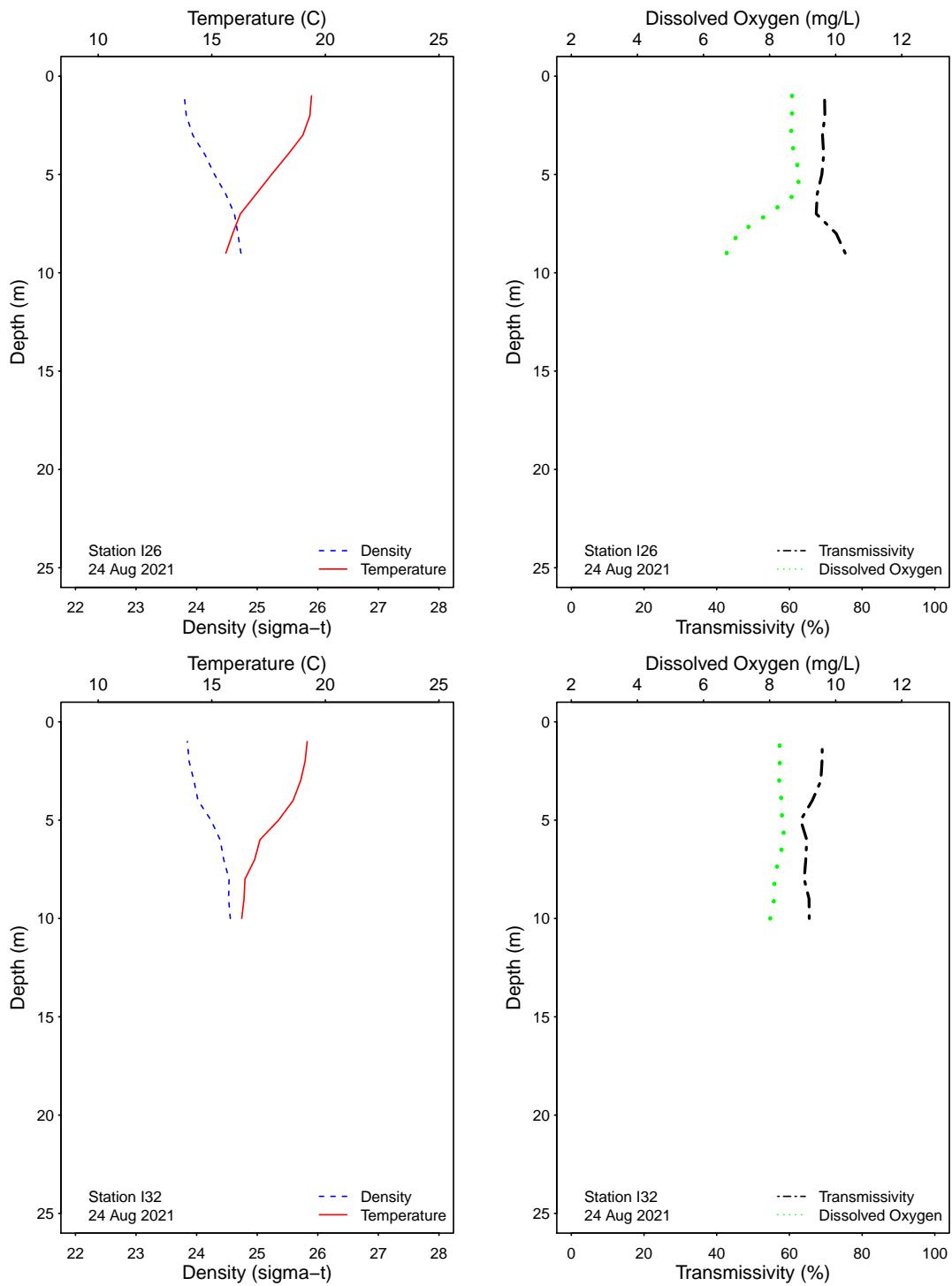


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

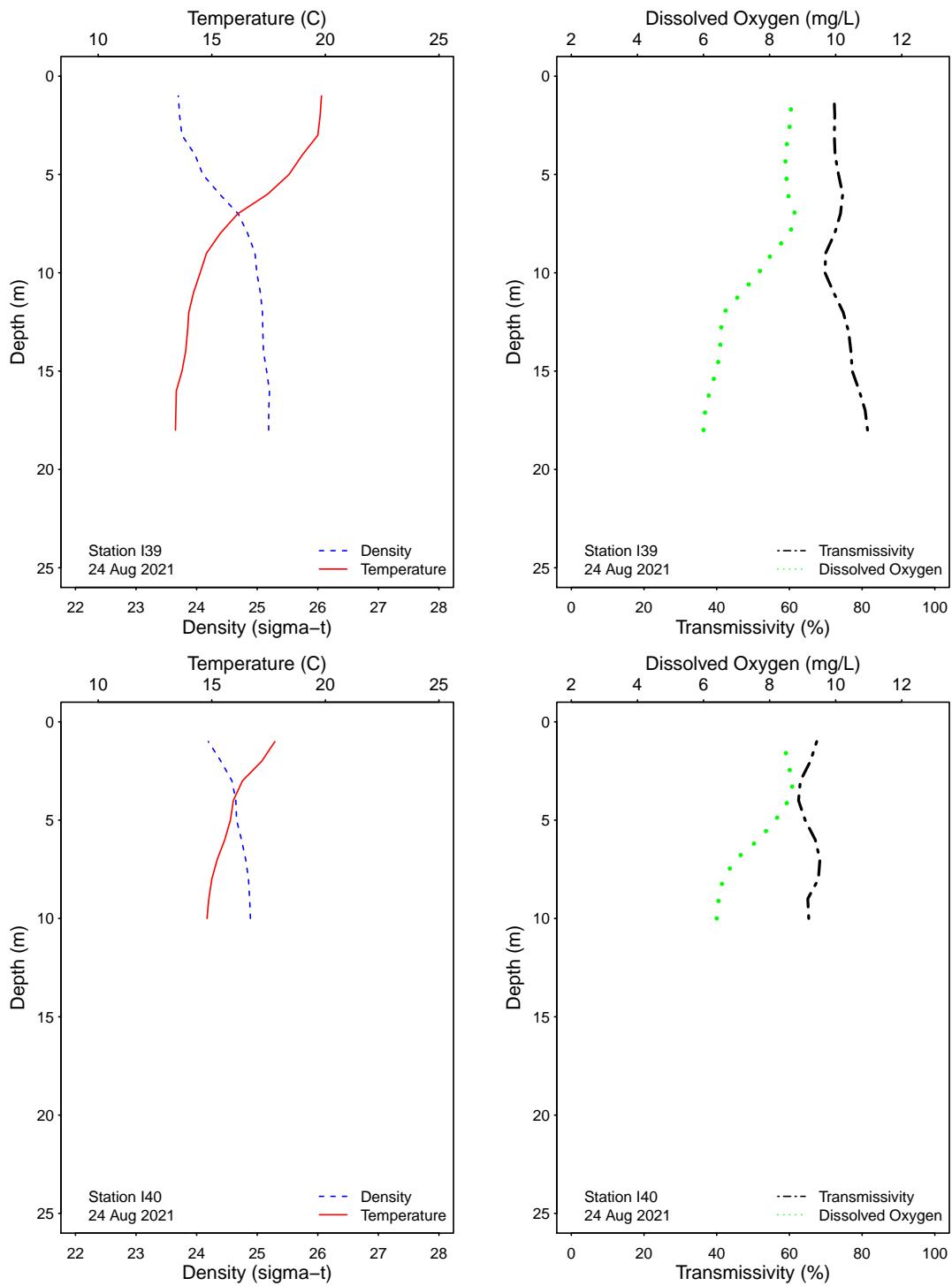


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

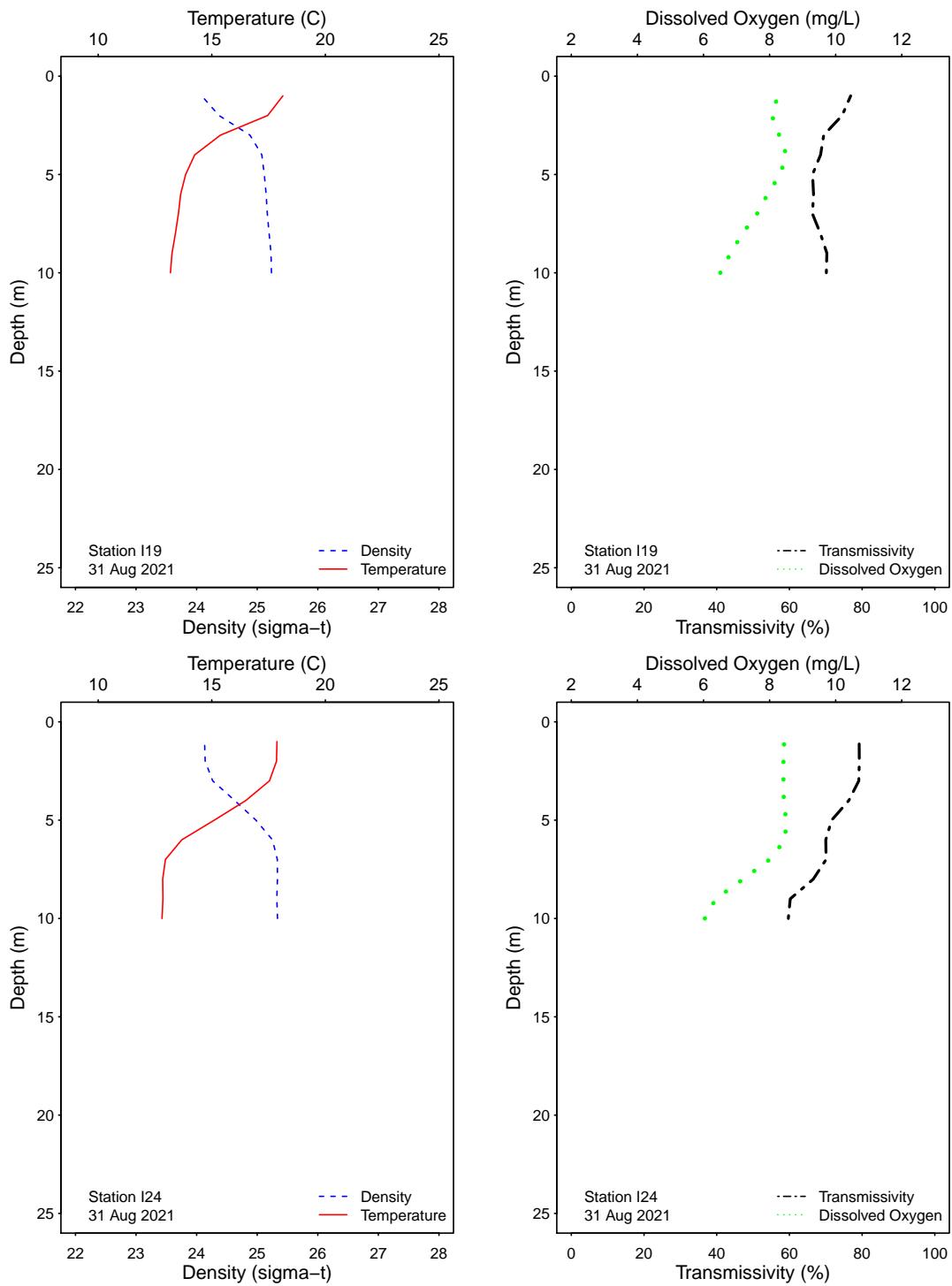


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

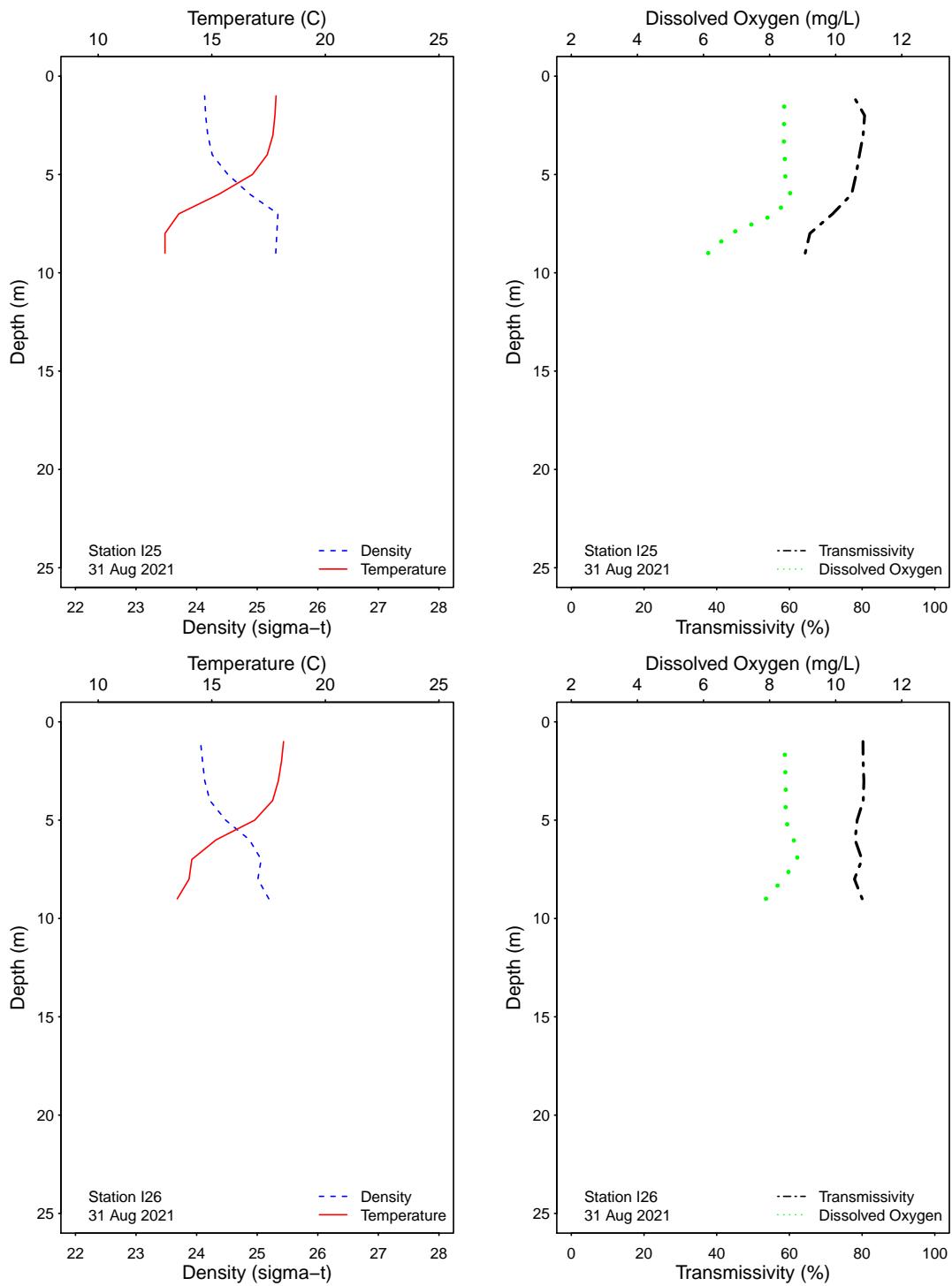


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

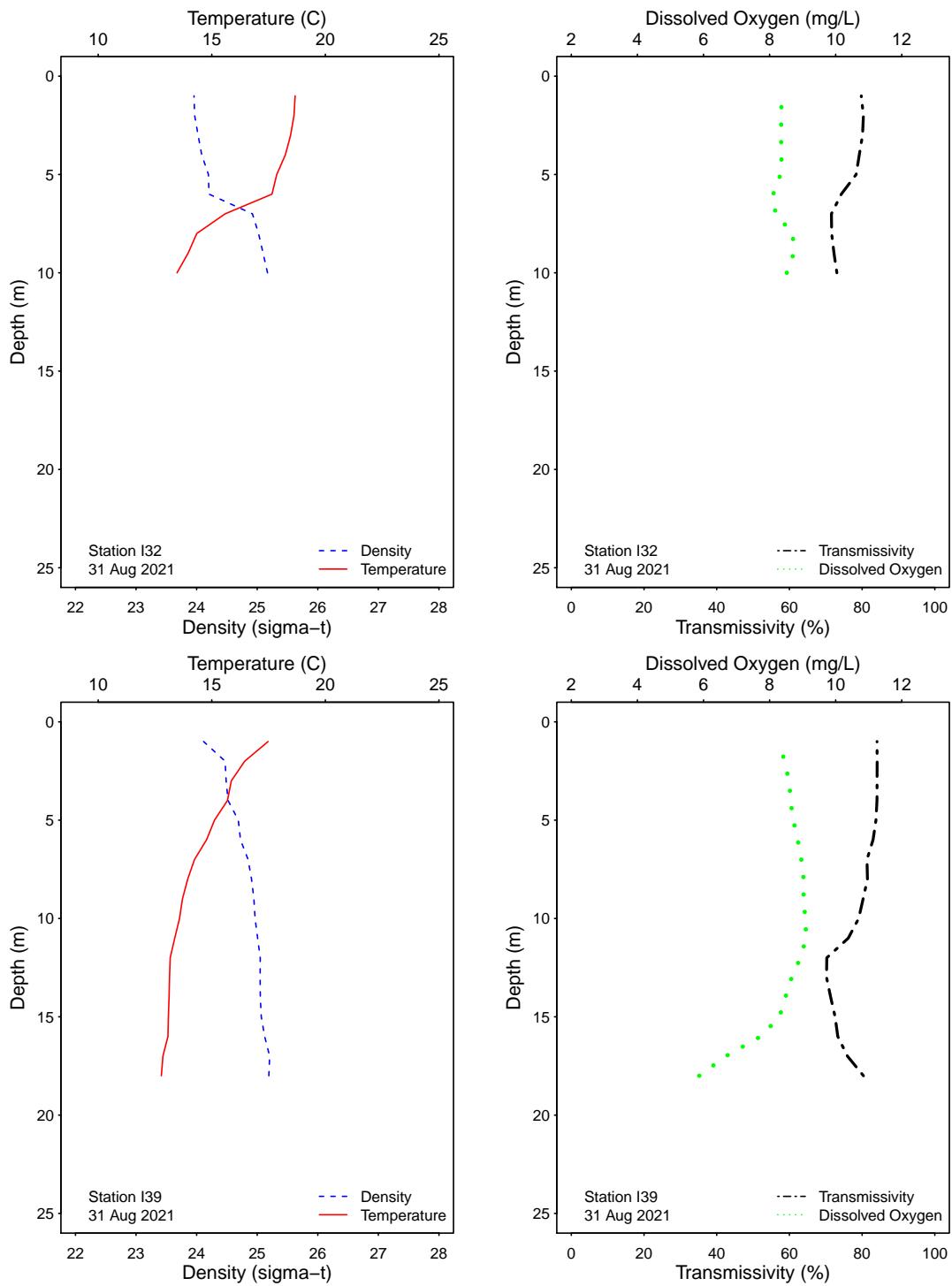


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

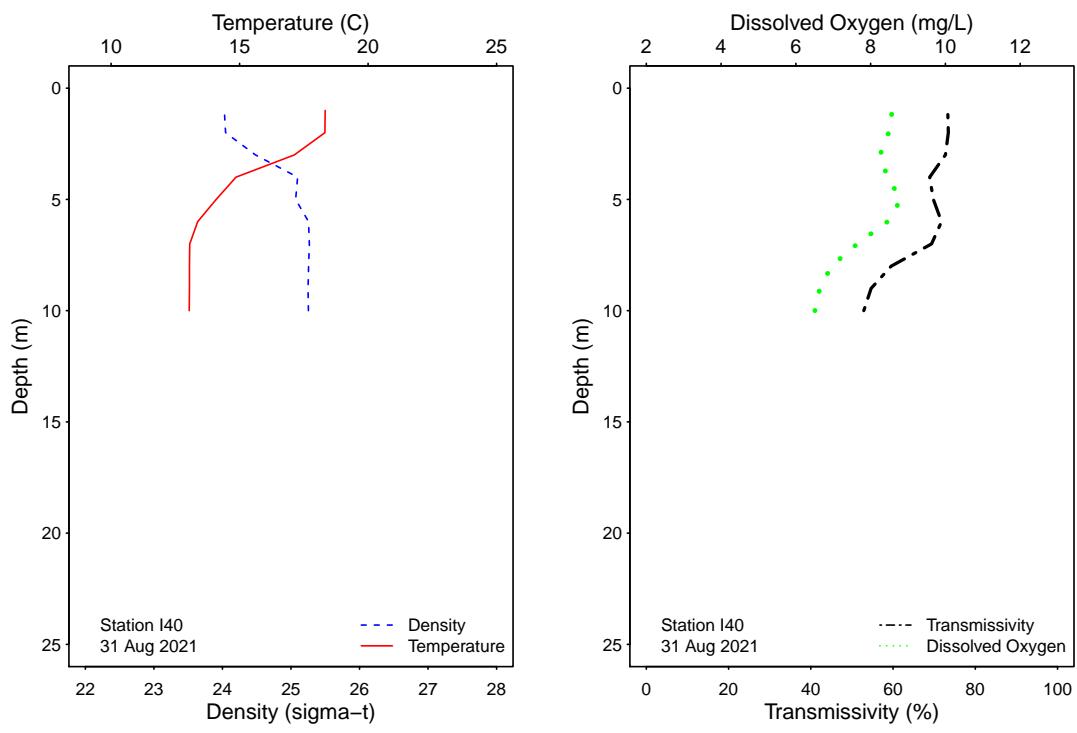


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



# 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
04 Aug 2021	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Aug 2021	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 water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) 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	Enter	Temp	XMS	DO	Sal	pH
I10	03 Aug 2021	1140	2	<2	<2	<2	17.2	82.18	8.5	33.53	8.2
I10	03 Aug 2021	1140	12	<2	<2	<2	13.3	74.41	8.4	33.49	8.1
I10	03 Aug 2021	1140	18	<2	<2	<2	12.0	81.76	5.5	33.60	7.9
I11	03 Aug 2021	1129	2	<2	<2	<2	15.8	75.16	8.8	33.54	8.1
I11	03 Aug 2021	1129	6	<2	<2	<2	14.2	71.36	8.9	33.54	8.1
I11	03 Aug 2021	1129	11	<2	<2	<2	12.1	74.18	5.4	33.60	7.9
I12	04 Aug 2021	1044	2	<2	<2	<2	16.0	75.98	8.6	33.58	8.1
I12	04 Aug 2021	1044	18	200e	28e	12e	12.2	85.25	6.4	33.54	8.0
I12	04 Aug 2021	1044	27	2e	<2	<2	11.8	84.97	5.3	33.63	7.9
I13	04 Aug 2021	1121	2	<2	<2	<2	15.6	80.85	9.0	33.44	8.2
I13	04 Aug 2021	1121	18	<2	2e	<2	12.8	70.05	8.4	33.50	8.1
I13	04 Aug 2021	1121	37	<2	<2	<2	11.8	87.09	5.2	33.63	7.9
I14	04 Aug 2021	1136	2	<2	<2	<2	16.1	77.52	8.8	33.51	8.1
I14	04 Aug 2021	1136	18	<2	<2	<2	12.2	82.37	6.7	33.49	8.0
I14	04 Aug 2021	1136	27	<20	<2	<2	11.9	84.41	5.5	33.62	7.9
I16	04 Aug 2021	1032	2	<2	<2	<2	14.9	76.06	8.9	33.60	8.1
I16	04 Aug 2021	1032	18	36e	8e	18e	12.2	83.55	6.7	33.50	8.0
I16	04 Aug 2021	1032	27	2e	2e	<2	11.9	84.51	5.9	33.62	7.9
I18	04 Aug 2021	1001	2	<2	<2	<2	15.8	71.58	8.7	33.63	8.1
I18	04 Aug 2021	1001	12	<2	<2	<2	12.4	77.42	6.8	33.52	8.0
I18	04 Aug 2021	1001	18	2e	<2	2e	12.0	82.13	5.9	33.64	7.9
I20	04 Aug 2021	836	2	<2	<2	<2	16.5	80.06	8.6	33.43	8.1
I20	04 Aug 2021	836	18	<2	<2	<2	13.4	82.15	8.9	33.48	8.1
I20	04 Aug 2021	836	55	<2	<2	<2	11.1	88.04	4.6	33.76	7.8
I21	04 Aug 2021	856	2	<2	<2	<2	15.4	82.28	8.8	33.47	8.1
I21	04 Aug 2021	856	18	<2	<2	<2	12.5	74.58	7.6	33.55	8.0
I21	04 Aug 2021	856	37	<2	<2	<2	11.6	87.60	5.1	33.65	7.8
I22	04 Aug 2021	937	2	<2	<2	<2	15.3	77.65	8.9	33.42	8.1
I22	04 Aug 2021	937	18	<2	<2	<2	12.2	81.73	6.8	33.52	8.0
I22	04 Aug 2021	937	27	<2	<2	<2	11.9	85.63	5.7	33.62	7.9
I23	04 Aug 2021	949	2	<2	<2	<2	15.6	74.47	8.6	33.66	8.1
I23	04 Aug 2021	949	12	<2	<2	<2	12.4	69.32	6.9	33.58	8.0
I23	04 Aug 2021	949	18	<2	<2	<2	12.0	78.46	5.2	33.65	7.9
I3	03 Aug 2021	1024	2	<2	<2	<2	16.6	80.39	8.5	33.52	8.1
I3	03 Aug 2021	1024	18	<2	<2	<2	12.2	85.48	6.9	33.55	8.0
I3	03 Aug 2021	1024	27	<2	<2	<2	12.0	84.93	5.8	33.61	7.9
I30	05 Aug 2021	920	2	<2	<2	<2	15.5	78.94	9.1	33.50	8.1
I30	05 Aug 2021	920	18	<2	<2	<2	12.0	83.37	6.7	33.54	8.0
I30	05 Aug 2021	920	27	<2	<2	<2	11.9	82.94	5.3	33.62	7.9

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I33	05 Aug 2021	822	2	<2	2e	<2	16.0	76.38	8.5	33.55	8.1
I33	05 Aug 2021	822	18	<2	<2	<2	12.0	84.37	6.0	33.60	7.9
I33	05 Aug 2021	822	27	<2	<2	<2	11.8	80.92	5.1	33.63	7.8
I36	05 Aug 2021	1001	2	<2	<2	<2	15.8	68.61	9.7	33.61	8.2
I36	05 Aug 2021	1001	6	<2	<2	<2	13.2	65.50	9.0	33.59	8.1
I36	05 Aug 2021	1001	11	<2	<2	<2	12.5	50.21	5.5	33.60	7.9
I37	05 Aug 2021	754	2	<2	<2	<2	15.5	73.01	9.0	33.57	8.1
I37	05 Aug 2021	754	6	<2	<2	<2	12.8	59.04	8.6	33.76	8.1
I37	05 Aug 2021	754	11	<2	<2	<2	12.0	64.03	5.0	33.61	7.8
I38	05 Aug 2021	1037	2	<2	<2	<2	15.5	64.59	9.5	33.66	8.2
I38	05 Aug 2021	1037	6	<2	<2	<2	12.8	64.35	9.7	33.63	8.2
I38	05 Aug 2021	1037	11	<20	<2	<2	12.4	56.60	4.9	33.59	7.8
I5	03 Aug 2021	1051	2	4e	<2	30e	13.9	64.21	8.3	33.55	8.1
I5	03 Aug 2021	1051	6	<2	<2	<2	12.5	61.25	7.1	33.60	8.0
I5	03 Aug 2021	1051	11	<2	<2	<2	11.9	80.94	5.2	33.62	7.9
I7	03 Aug 2021	910	2	<2	<2	<2	16.3	81.75	8.7	33.47	8.1
I7	03 Aug 2021	910	18	<2	<2	<2	13.0	75.83	8.1	33.51	8.0
I7	03 Aug 2021	910	52	<2	<2	<2	11.1	88.10	4.5	33.76	7.8
I8	03 Aug 2021	1215	2	<2	<2	<2	16.5	81.17	8.6	33.52	8.2
I8	03 Aug 2021	1215	18	<2	<2	<2	12.5	83.19	7.3	33.47	8.0
I8	03 Aug 2021	1215	37	<2	<2	<2	11.8	86.64	5.2	33.63	7.9
I9	03 Aug 2021	1154	2	<2	<2	<2	18.1	81.34	8.5	33.52	8.2
I9	03 Aug 2021	1154	18	40e	24e	18e	12.1	85.27	6.3	33.47	8.0
I9	03 Aug 2021	1154	27	<20	2e	6e	11.8	85.83	5.2	33.64	7.9

ns = not sampled

ND = no data

**Table 4.3**

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

Station	Date	Parameter	Value
I1	03 Aug 2021	Depth (m)	63.47
I1	03 Aug 2021	Arrive Time	933
I1	03 Aug 2021	Depart Time	946
I1	03 Aug 2021	Air Temp (C)	17.8
I1	03 Aug 2021	Weather	Fog
I1	03 Aug 2021	Visibility (mi)	0
I1	03 Aug 2021	Wind Speed (kts)	6.7
I1	03 Aug 2021	Wind Dir	N
I1	03 Aug 2021	Water Color	Blueish-Green
I1	03 Aug 2021	Wave Ht Low (ft)	3.9
I1	03 Aug 2021	Wave Period (sec)	17
I1	03 Aug 2021	Sea State	Confused Swell
I1	03 Aug 2021	High Tide (ft)	5.29
I1	03 Aug 2021	High Tide Time	1830
I1	03 Aug 2021	Low Tide (ft)	0.74
I1	03 Aug 2021	Low Tide Time	130
I1	03 Aug 2021	Comments	60m and 60m-dup OA bottle 18747 and 18748 Niskin 1 and 2; 30m OA 18755 Niskin 3; 1m OA 18756 Niskin 4
I10	03 Aug 2021	Depth (m)	20.09
I10	03 Aug 2021	Arrive Time	1140
I10	03 Aug 2021	Depart Time	1145
I10	03 Aug 2021	Air Temp (C)	17.6
I10	03 Aug 2021	Weather	Haze
I10	03 Aug 2021	Visibility (mi)	8
I10	03 Aug 2021	Wind Speed (kts)	6
I10	03 Aug 2021	Wind Dir	NW
I10	03 Aug 2021	Water Color	Green
I10	03 Aug 2021	Wave Ht Low (ft)	3
I10	03 Aug 2021	Wave Period (sec)	17
I10	03 Aug 2021	Sea State	Wind Ripples
I10	03 Aug 2021	High Tide (ft)	5.29
I10	03 Aug 2021	High Tide Time	1830
I10	03 Aug 2021	Low Tide (ft)	0.74
I10	03 Aug 2021	Low Tide Time	130
I10	03 Aug 2021	Comments	none
I11	03 Aug 2021	Depth (m)	72.12
I11	03 Aug 2021	Arrive Time	1129
I11	03 Aug 2021	Depart Time	1132
I11	03 Aug 2021	Air Temp (C)	17.3
I11	03 Aug 2021	Weather	Haze
I11	03 Aug 2021	Visibility (mi)	8
I11	03 Aug 2021	Wind Speed (kts)	3.5
I11	03 Aug 2021	Wind Dir	N
I11	03 Aug 2021	Water Color	Green
I11	03 Aug 2021	Wave Ht Low (ft)	3
I11	03 Aug 2021	Wave Period (sec)	17
I11	03 Aug 2021	Sea State	Wind Ripples
I11	03 Aug 2021	High Tide (ft)	5.29
I11	03 Aug 2021	High Tide Time	1830
I11	03 Aug 2021	Low Tide (ft)	0.74
I11	03 Aug 2021	Low Tide Time	130
I11	03 Aug 2021	Comments	none
I12	04 Aug 2021	Depth (m)	29

Station	Date	Parameter	Value
I12	04 Aug 2021	Arrive Time	1044
I12	04 Aug 2021	Depart Time	1056
I12	04 Aug 2021	Air Temp (C)	18.6
I12	04 Aug 2021	Weather	Overcast
I12	04 Aug 2021	Visibility (mi)	7
I12	04 Aug 2021	Wind Speed (kts)	2.1
I12	04 Aug 2021	Wind Dir	NW
I12	04 Aug 2021	Water Color	Green
I12	04 Aug 2021	Wave Ht Low (ft)	3
I12	04 Aug 2021	Wave Period (sec)	15
I12	04 Aug 2021	Sea State	Calm
I12	04 Aug 2021	High Tide (ft)	5.58
I12	04 Aug 2021	High Tide Time	1912
I12	04 Aug 2021	Low Tide (ft)	0.33
I12	04 Aug 2021	Low Tide Time	206
I12	04 Aug 2021	Comments	OA btl 18757 @ 26 m Niskin 4; OA btl 18758 @ 1 m Niskin 6; NO3 @ 26 m Niskin 4; NO3 dup @ 26 m Niskin 5; NO3 @ 1m Niskin 6 m
I13	04 Aug 2021	Depth (m)	39
I13	04 Aug 2021	Arrive Time	1121
I13	04 Aug 2021	Depart Time	1123
I13	04 Aug 2021	Air Temp (C)	18
I13	04 Aug 2021	Weather	Overcast
I13	04 Aug 2021	Visibility (mi)	9
I13	04 Aug 2021	Wind Speed (kts)	2.5
I13	04 Aug 2021	Wind Dir	NW
I13	04 Aug 2021	Water Color	Greenish-Blue
I13	04 Aug 2021	Wave Ht Low (ft)	3
I13	04 Aug 2021	Wave Period (sec)	15
I13	04 Aug 2021	Sea State	Calm
I13	04 Aug 2021	High Tide (ft)	5.58
I13	04 Aug 2021	High Tide Time	1912
I13	04 Aug 2021	Low Tide (ft)	0.33
I13	04 Aug 2021	Low Tide Time	206
I13	04 Aug 2021	Comments	none
I14	04 Aug 2021	Depth (m)	29
I14	04 Aug 2021	Arrive Time	1136
I14	04 Aug 2021	Depart Time	1139
I14	04 Aug 2021	Air Temp (C)	18.1
I14	04 Aug 2021	Weather	Overcast
I14	04 Aug 2021	Visibility (mi)	9
I14	04 Aug 2021	Wind Speed (kts)	1.6
I14	04 Aug 2021	Wind Dir	NW
I14	04 Aug 2021	Water Color	Greenish-Blue
I14	04 Aug 2021	Wave Ht Low (ft)	3
I14	04 Aug 2021	Wave Period (sec)	15
I14	04 Aug 2021	Sea State	Calm
I14	04 Aug 2021	High Tide (ft)	5.58
I14	04 Aug 2021	High Tide Time	1912
I14	04 Aug 2021	Low Tide (ft)	0.33
I14	04 Aug 2021	Low Tide Time	206
I14	04 Aug 2021	Comments	none
I15	04 Aug 2021	Depth (m)	32
I15	04 Aug 2021	Arrive Time	1105
I15	04 Aug 2021	Depart Time	1110
I15	04 Aug 2021	Air Temp (C)	18.2
I15	04 Aug 2021	Weather	Overcast
I15	04 Aug 2021	Visibility (mi)	9

Station	Date	Parameter	Value
I15	04 Aug 2021	Wind Speed (kts)	3.7
I15	04 Aug 2021	Wind Dir	NW
I15	04 Aug 2021	Water Color	Green
I15	04 Aug 2021	Wave Ht Low (ft)	3
I15	04 Aug 2021	Wave Period (sec)	15
I15	04 Aug 2021	Sea State	Calm
I15	04 Aug 2021	High Tide (ft)	5.58
I15	04 Aug 2021	High Tide Time	1912
I15	04 Aug 2021	Low Tide (ft)	0.33
I15	04 Aug 2021	Low Tide Time	206
I15	04 Aug 2021	Comments	none
I16	04 Aug 2021	Depth (m)	27
I16	04 Aug 2021	Arrive Time	1032
I16	04 Aug 2021	Depart Time	1037
I16	04 Aug 2021	Air Temp (C)	18.5
I16	04 Aug 2021	Weather	Overcast
I16	04 Aug 2021	Visibility (mi)	7
I16	04 Aug 2021	Wind Speed (kts)	1.6
I16	04 Aug 2021	Wind Dir	NW
I16	04 Aug 2021	Water Color	Green
I16	04 Aug 2021	Wave Ht Low (ft)	3
I16	04 Aug 2021	Wave Period (sec)	15
I16	04 Aug 2021	Sea State	Calm
I16	04 Aug 2021	High Tide (ft)	5.58
I16	04 Aug 2021	High Tide Time	1912
I16	04 Aug 2021	Low Tide (ft)	0.33
I16	04 Aug 2021	Low Tide Time	206
I16	04 Aug 2021	Comments	none
I17	04 Aug 2021	Depth (m)	19
I17	04 Aug 2021	Arrive Time	1017
I17	04 Aug 2021	Depart Time	1021
I17	04 Aug 2021	Air Temp (C)	18.2
I17	04 Aug 2021	Weather	Overcast
I17	04 Aug 2021	Visibility (mi)	8
I17	04 Aug 2021	Wind Speed (kts)	1.1
I17	04 Aug 2021	Wind Dir	NW
I17	04 Aug 2021	Water Color	Green
I17	04 Aug 2021	Wave Ht Low (ft)	3
I17	04 Aug 2021	Wave Period (sec)	15
I17	04 Aug 2021	Sea State	Calm
I17	04 Aug 2021	High Tide (ft)	5.58
I17	04 Aug 2021	High Tide Time	1912
I17	04 Aug 2021	Low Tide (ft)	0.33
I17	04 Aug 2021	Low Tide Time	206
I17	04 Aug 2021	Comments	none
I18	04 Aug 2021	Depth (m)	18
I18	04 Aug 2021	Arrive Time	1001
I18	04 Aug 2021	Depart Time	1004
I18	04 Aug 2021	Air Temp (C)	18
I18	04 Aug 2021	Weather	Overcast
I18	04 Aug 2021	Visibility (mi)	8
I18	04 Aug 2021	Wind Speed (kts)	0.9
I18	04 Aug 2021	Wind Dir	NE
I18	04 Aug 2021	Water Color	Green
I18	04 Aug 2021	Wave Ht Low (ft)	3
I18	04 Aug 2021	Wave Period (sec)	15
I18	04 Aug 2021	Sea State	Light Chop
I18	04 Aug 2021	High Tide (ft)	5.58

Station	Date	Parameter	Value
I18	04 Aug 2021	High Tide Time	1912
I18	04 Aug 2021	Low Tide (ft)	0.33
I18	04 Aug 2021	Low Tide Time	206
I18	04 Aug 2021	Comments	none
I2	03 Aug 2021	Depth (m)	33.94
I2	03 Aug 2021	Arrive Time	1008
I2	03 Aug 2021	Depart Time	1013
I2	03 Aug 2021	Air Temp (C)	17.3
I2	03 Aug 2021	Weather	Fog
I2	03 Aug 2021	Visibility (mi)	3
I2	03 Aug 2021	Wind Speed (kts)	7.3
I2	03 Aug 2021	Wind Dir	N
I2	03 Aug 2021	Water Color	Blueish-Green
I2	03 Aug 2021	Wave Ht Low (ft)	3.9
I2	03 Aug 2021	Wave Period (sec)	17
I2	03 Aug 2021	Sea State	Confused Swell
I2	03 Aug 2021	High Tide (ft)	5.29
I2	03 Aug 2021	High Tide Time	1830
I2	03 Aug 2021	Low Tide (ft)	0.74
I2	03 Aug 2021	Low Tide Time	130
I2	03 Aug 2021	Comments	none
I20	04 Aug 2021	Depth (m)	56
I20	04 Aug 2021	Arrive Time	836
I20	04 Aug 2021	Depart Time	840
I20	04 Aug 2021	Air Temp (C)	16.9
I20	04 Aug 2021	Weather	Overcast
I20	04 Aug 2021	Visibility (mi)	5
I20	04 Aug 2021	Wind Speed (kts)	2.6
I20	04 Aug 2021	Wind Dir	NE
I20	04 Aug 2021	Water Color	Blueish-Green
I20	04 Aug 2021	Wave Ht Low (ft)	3
I20	04 Aug 2021	Wave Period (sec)	15
I20	04 Aug 2021	Sea State	Confused Swell
I20	04 Aug 2021	High Tide (ft)	5.58
I20	04 Aug 2021	High Tide Time	1912
I20	04 Aug 2021	Low Tide (ft)	0.33
I20	04 Aug 2021	Low Tide Time	206
I20	04 Aug 2021	Comments	none
I21	04 Aug 2021	Depth (m)	42
I21	04 Aug 2021	Arrive Time	856
I21	04 Aug 2021	Depart Time	912
I21	04 Aug 2021	Air Temp (C)	16.7
I21	04 Aug 2021	Weather	Overcast
I21	04 Aug 2021	Visibility (mi)	5
I21	04 Aug 2021	Wind Speed (kts)	4
I21	04 Aug 2021	Wind Dir	E
I21	04 Aug 2021	Water Color	Blueish-Green
I21	04 Aug 2021	Wave Ht Low (ft)	3
I21	04 Aug 2021	Wave Period (sec)	15
I21	04 Aug 2021	Sea State	Confused Swell
I21	04 Aug 2021	High Tide (ft)	5.58
I21	04 Aug 2021	High Tide Time	1912
I21	04 Aug 2021	Low Tide (ft)	0.33
I21	04 Aug 2021	Low Tide Time	206
I21	04 Aug 2021	Comments	OA btl 18752 = 41 m CTD Niskin 4; OA btl 18753 = 1 m CTD Niskin 5
I22	04 Aug 2021	Depth (m)	30

Station	Date	Parameter	Value
I22	04 Aug 2021	Arrive Time	937
I22	04 Aug 2021	Depart Time	939
I22	04 Aug 2021	Air Temp (C)	17.6
I22	04 Aug 2021	Weather	Overcast
I22	04 Aug 2021	Visibility (mi)	7
I22	04 Aug 2021	Wind Speed (kts)	1.7
I22	04 Aug 2021	Wind Dir	NE
I22	04 Aug 2021	Water Color	Greenish-Blue
I22	04 Aug 2021	Wave Ht Low (ft)	3
I22	04 Aug 2021	Wave Period (sec)	15
I22	04 Aug 2021	Sea State	Confused Swell
I22	04 Aug 2021	High Tide (ft)	5.58
I22	04 Aug 2021	High Tide Time	1912
I22	04 Aug 2021	Low Tide (ft)	0.33
I22	04 Aug 2021	Low Tide Time	206
I22	04 Aug 2021	Comments	none
I23	04 Aug 2021	Depth (m)	21
I23	04 Aug 2021	Arrive Time	949
I23	04 Aug 2021	Depart Time	953
I23	04 Aug 2021	Air Temp (C)	18
I23	04 Aug 2021	Weather	Overcast
I23	04 Aug 2021	Visibility (mi)	8
I23	04 Aug 2021	Wind Speed (kts)	0
I23	04 Aug 2021	Wind Dir	N
I23	04 Aug 2021	Water Color	Green
I23	04 Aug 2021	Wave Ht Low (ft)	3
I23	04 Aug 2021	Wave Period (sec)	15
I23	04 Aug 2021	Sea State	Light Chop
I23	04 Aug 2021	High Tide (ft)	5.58
I23	04 Aug 2021	High Tide Time	1912
I23	04 Aug 2021	Low Tide (ft)	0.33
I23	04 Aug 2021	Low Tide Time	206
I23	04 Aug 2021	Comments	none
I27	04 Aug 2021	Depth (m)	30
I27	04 Aug 2021	Arrive Time	922
I27	04 Aug 2021	Depart Time	926
I27	04 Aug 2021	Air Temp (C)	17.3
I27	04 Aug 2021	Weather	Overcast
I27	04 Aug 2021	Visibility (mi)	5
I27	04 Aug 2021	Wind Speed (kts)	2.2
I27	04 Aug 2021	Wind Dir	E
I27	04 Aug 2021	Water Color	Greenish-Blue
I27	04 Aug 2021	Wave Ht Low (ft)	3
I27	04 Aug 2021	Wave Period (sec)	15
I27	04 Aug 2021	Sea State	Confused Swell
I27	04 Aug 2021	High Tide (ft)	5.58
I27	04 Aug 2021	High Tide Time	1912
I27	04 Aug 2021	Low Tide (ft)	0.33
I27	04 Aug 2021	Low Tide Time	206
I27	04 Aug 2021	Comments	none
I28	05 Aug 2021	Depth (m)	57
I28	05 Aug 2021	Arrive Time	844
I28	05 Aug 2021	Depart Time	851
I28	05 Aug 2021	Air Temp (C)	18.2
I28	05 Aug 2021	Weather	Overcast
I28	05 Aug 2021	Visibility (mi)	7
I28	05 Aug 2021	Wind Speed (kts)	0
I28	05 Aug 2021	Wind Dir	W

Station	Date	Parameter	Value
I28	05 Aug 2021	Water Color	Greenish-Blue
I28	05 Aug 2021	Wave Ht Low (ft)	5
I28	05 Aug 2021	Wave Period (sec)	8
I28	05 Aug 2021	Sea State	Regular Swell
I28	05 Aug 2021	High Tide (ft)	5.88
I28	05 Aug 2021	High Tide Time	1948
I28	05 Aug 2021	Low Tide (ft)	-0.01
I28	05 Aug 2021	Low Tide Time	242
I28	05 Aug 2021	Comments	1m OA btl: 18754; 55m OA btl: 18759
I29	05 Aug 2021	Depth (m)	38
I29	05 Aug 2021	Arrive Time	908
I29	05 Aug 2021	Depart Time	913
I29	05 Aug 2021	Air Temp (C)	17.7
I29	05 Aug 2021	Weather	Overcast
I29	05 Aug 2021	Visibility (mi)	7
I29	05 Aug 2021	Wind Speed (kts)	1.6
I29	05 Aug 2021	Wind Dir	SE
I29	05 Aug 2021	Water Color	Greenish-Blue
I29	05 Aug 2021	Wave Ht Low (ft)	5
I29	05 Aug 2021	Wave Period (sec)	8
I29	05 Aug 2021	Sea State	Regular Swell
I29	05 Aug 2021	High Tide (ft)	5.88
I29	05 Aug 2021	High Tide Time	1948
I29	05 Aug 2021	Low Tide (ft)	-0.01
I29	05 Aug 2021	Low Tide Time	242
I29	05 Aug 2021	Comments	none
I3	03 Aug 2021	Depth (m)	27.53
I3	03 Aug 2021	Arrive Time	1024
I3	03 Aug 2021	Depart Time	1029
I3	03 Aug 2021	Air Temp (C)	17.2
I3	03 Aug 2021	Weather	Partly Cloudy
I3	03 Aug 2021	Visibility (mi)	7
I3	03 Aug 2021	Wind Speed (kts)	7.3
I3	03 Aug 2021	Wind Dir	N
I3	03 Aug 2021	Water Color	Blueish-Green
I3	03 Aug 2021	Wave Ht Low (ft)	3.9
I3	03 Aug 2021	Wave Period (sec)	17
I3	03 Aug 2021	Sea State	Confused Swell
I3	03 Aug 2021	High Tide (ft)	5.29
I3	03 Aug 2021	High Tide Time	1830
I3	03 Aug 2021	Low Tide (ft)	0.74
I3	03 Aug 2021	Low Tide Time	130
I3	03 Aug 2021	Comments	none
I30	05 Aug 2021	Depth (m)	30
I30	05 Aug 2021	Arrive Time	920
I30	05 Aug 2021	Depart Time	927
I30	05 Aug 2021	Air Temp (C)	18.1
I30	05 Aug 2021	Weather	Overcast
I30	05 Aug 2021	Visibility (mi)	7
I30	05 Aug 2021	Wind Speed (kts)	0
I30	05 Aug 2021	Wind Dir	SE
I30	05 Aug 2021	Water Color	Blueish-Green
I30	05 Aug 2021	Wave Ht Low (ft)	5
I30	05 Aug 2021	Wave Period (sec)	8
I30	05 Aug 2021	Sea State	Regular Swell
I30	05 Aug 2021	High Tide (ft)	5.88
I30	05 Aug 2021	High Tide Time	1948
I30	05 Aug 2021	Low Tide (ft)	-0.01

Station	Date	Parameter	Value
I30	05 Aug 2021	Low Tide Time	242
I30	05 Aug 2021	Comments	none
I31	05 Aug 2021	Depth (m)	20
I31	05 Aug 2021	Arrive Time	934
I31	05 Aug 2021	Depart Time	939
I31	05 Aug 2021	Air Temp (C)	18.3
I31	05 Aug 2021	Weather	Overcast
I31	05 Aug 2021	Visibility (mi)	7
I31	05 Aug 2021	Wind Speed (kts)	1.7
I31	05 Aug 2021	Wind Dir	NE
I31	05 Aug 2021	Water Color	Green
I31	05 Aug 2021	Wave Ht Low (ft)	5
I31	05 Aug 2021	Wave Period (sec)	8
I31	05 Aug 2021	Sea State	Regular Swell
I31	05 Aug 2021	High Tide (ft)	5.88
I31	05 Aug 2021	High Tide Time	1948
I31	05 Aug 2021	Low Tide (ft)	-0.01
I31	05 Aug 2021	Low Tide Time	242
I31	05 Aug 2021	Comments	none
I33	05 Aug 2021	Depth (m)	31
I33	05 Aug 2021	Arrive Time	822
I33	05 Aug 2021	Depart Time	827
I33	05 Aug 2021	Air Temp (C)	18.4
I33	05 Aug 2021	Weather	Overcast
I33	05 Aug 2021	Visibility (mi)	7
I33	05 Aug 2021	Wind Speed (kts)	6.1
I33	05 Aug 2021	Wind Dir	W
I33	05 Aug 2021	Water Color	Green
I33	05 Aug 2021	Wave Ht Low (ft)	5
I33	05 Aug 2021	Wave Period (sec)	8
I33	05 Aug 2021	Sea State	Regular Swell
I33	05 Aug 2021	High Tide (ft)	5.88
I33	05 Aug 2021	High Tide Time	1948
I33	05 Aug 2021	Low Tide (ft)	-0.01
I33	05 Aug 2021	Low Tide Time	242
I33	05 Aug 2021	Comments	none
I34	05 Aug 2021	Depth (m)	19
I34	05 Aug 2021	Arrive Time	808
I34	05 Aug 2021	Depart Time	815
I34	05 Aug 2021	Air Temp (C)	17.8
I34	05 Aug 2021	Weather	Overcast
I34	05 Aug 2021	Visibility (mi)	7
I34	05 Aug 2021	Wind Speed (kts)	3.4
I34	05 Aug 2021	Wind Dir	S
I34	05 Aug 2021	Water Color	Green
I34	05 Aug 2021	Wave Ht Low (ft)	5
I34	05 Aug 2021	Wave Period (sec)	8
I34	05 Aug 2021	Sea State	Regular Swell
I34	05 Aug 2021	High Tide (ft)	5.88
I34	05 Aug 2021	High Tide Time	1948
I34	05 Aug 2021	Low Tide (ft)	-0.01
I34	05 Aug 2021	Low Tide Time	242
I34	05 Aug 2021	Comments	none
I35	05 Aug 2021	Depth (m)	20
I35	05 Aug 2021	Arrive Time	1016
I35	05 Aug 2021	Depart Time	1028
I35	05 Aug 2021	Air Temp (C)	18.1

Station	Date	Parameter	Value
I35	05 Aug 2021	Weather	Overcast
I35	05 Aug 2021	Visibility (mi)	7
I35	05 Aug 2021	Wind Speed (kts)	9.7
I35	05 Aug 2021	Wind Dir	SW
I35	05 Aug 2021	Water Color	Green
I35	05 Aug 2021	Wave Ht Low (ft)	5
I35	05 Aug 2021	Wave Period (sec)	8
I35	05 Aug 2021	Sea State	Regular Swell
I35	05 Aug 2021	High Tide (ft)	5.88
I35	05 Aug 2021	High Tide Time	1948
I35	05 Aug 2021	Low Tide (ft)	-0.01
I35	05 Aug 2021	Low Tide Time	242
I35	05 Aug 2021	Comments	Re-cast for salinity spikes; 2nd cast still a bit spiky due to thermocline
I36	05 Aug 2021	Depth (m)	12
I36	05 Aug 2021	Arrive Time	1001
I36	05 Aug 2021	Depart Time	1008
I36	05 Aug 2021	Air Temp (C)	18.6
I36	05 Aug 2021	Weather	Overcast
I36	05 Aug 2021	Visibility (mi)	7
I36	05 Aug 2021	Wind Speed (kts)	6.7
I36	05 Aug 2021	Wind Dir	W
I36	05 Aug 2021	Water Color	Green
I36	05 Aug 2021	Wave Ht Low (ft)	5
I36	05 Aug 2021	Wave Period (sec)	8
I36	05 Aug 2021	Sea State	Regular Swell
I36	05 Aug 2021	High Tide (ft)	5.88
I36	05 Aug 2021	High Tide Time	1948
I36	05 Aug 2021	Low Tide (ft)	-0.01
I36	05 Aug 2021	Low Tide Time	242
I36	05 Aug 2021	Comments	none
I37	05 Aug 2021	Depth (m)	13
I37	05 Aug 2021	Arrive Time	754
I37	05 Aug 2021	Depart Time	805
I37	05 Aug 2021	Air Temp (C)	18
I37	05 Aug 2021	Weather	Overcast
I37	05 Aug 2021	Visibility (mi)	7
I37	05 Aug 2021	Wind Speed (kts)	2.6
I37	05 Aug 2021	Wind Dir	NW
I37	05 Aug 2021	Water Color	Green
I37	05 Aug 2021	Wave Ht Low (ft)	5
I37	05 Aug 2021	Wave Period (sec)	8
I37	05 Aug 2021	Sea State	Regular Swell
I37	05 Aug 2021	High Tide (ft)	5.88
I37	05 Aug 2021	High Tide Time	1948
I37	05 Aug 2021	Low Tide (ft)	-0.01
I37	05 Aug 2021	Low Tide Time	242
I37	05 Aug 2021	Comments	none
I38	05 Aug 2021	Depth (m)	12
I38	05 Aug 2021	Arrive Time	1037
I38	05 Aug 2021	Depart Time	1045
I38	05 Aug 2021	Air Temp (C)	17.9
I38	05 Aug 2021	Weather	Partly Cloudy
I38	05 Aug 2021	Visibility (mi)	8
I38	05 Aug 2021	Wind Speed (kts)	4.6
I38	05 Aug 2021	Wind Dir	SW
I38	05 Aug 2021	Water Color	Green
I38	05 Aug 2021	Wave Ht Low (ft)	5

Station	Date	Parameter	Value
I38	05 Aug 2021	Wave Period (sec)	8
I38	05 Aug 2021	Sea State	Regular Swell
I38	05 Aug 2021	High Tide (ft)	5.88
I38	05 Aug 2021	High Tide Time	1948
I38	05 Aug 2021	Low Tide (ft)	-0.01
I38	05 Aug 2021	Low Tide Time	242
I38	05 Aug 2021	Comments	none
I4	03 Aug 2021	Depth (m)	20.15
I4	03 Aug 2021	Arrive Time	1043
I4	03 Aug 2021	Depart Time	1046
I4	03 Aug 2021	Air Temp (C)	16.5
I4	03 Aug 2021	Weather	Fog
I4	03 Aug 2021	Visibility (mi)	0
I4	03 Aug 2021	Wind Speed (kts)	6.3
I4	03 Aug 2021	Wind Dir	NE
I4	03 Aug 2021	Water Color	Green
I4	03 Aug 2021	Wave Ht Low (ft)	3.9
I4	03 Aug 2021	Wave Period (sec)	17
I4	03 Aug 2021	Sea State	Confused Swell
I4	03 Aug 2021	High Tide (ft)	5.29
I4	03 Aug 2021	High Tide Time	1830
I4	03 Aug 2021	Low Tide (ft)	0.74
I4	03 Aug 2021	Low Tide Time	130
I4	03 Aug 2021	Comments	none
I5	03 Aug 2021	Depth (m)	14.12
I5	03 Aug 2021	Arrive Time	1051
I5	03 Aug 2021	Depart Time	1054
I5	03 Aug 2021	Air Temp (C)	16.4
I5	03 Aug 2021	Weather	Fog
I5	03 Aug 2021	Visibility (mi)	2
I5	03 Aug 2021	Wind Speed (kts)	6.8
I5	03 Aug 2021	Wind Dir	NE
I5	03 Aug 2021	Water Color	Greenish-Brown
I5	03 Aug 2021	Wave Ht Low (ft)	3
I5	03 Aug 2021	Wave Period (sec)	17
I5	03 Aug 2021	Sea State	Confused Swell
I5	03 Aug 2021	High Tide (ft)	5.29
I5	03 Aug 2021	High Tide Time	1830
I5	03 Aug 2021	Low Tide (ft)	0.74
I5	03 Aug 2021	Low Tide Time	130
I5	03 Aug 2021	Comments	none
I6	03 Aug 2021	Depth (m)	26.22
I6	03 Aug 2021	Arrive Time	1113
I6	03 Aug 2021	Depart Time	1116
I6	03 Aug 2021	Air Temp (C)	17.8
I6	03 Aug 2021	Weather	Haze
I6	03 Aug 2021	Visibility (mi)	8
I6	03 Aug 2021	Wind Speed (kts)	7.7
I6	03 Aug 2021	Wind Dir	N
I6	03 Aug 2021	Water Color	Green
I6	03 Aug 2021	Wave Ht Low (ft)	3
I6	03 Aug 2021	Wave Period (sec)	17
I6	03 Aug 2021	Sea State	Confused Swell
I6	03 Aug 2021	High Tide (ft)	5.29
I6	03 Aug 2021	High Tide Time	1830
I6	03 Aug 2021	Low Tide (ft)	0.74
I6	03 Aug 2021	Low Tide Time	130
I6	03 Aug 2021	Comments	none

Station	Date	Parameter	Value
I7	03 Aug 2021	Depth (m)	51.42
I7	03 Aug 2021	Arrive Time	910
I7	03 Aug 2021	Depart Time	915
I7	03 Aug 2021	Air Temp (C)	16.9
I7	03 Aug 2021	Weather	Fog
I7	03 Aug 2021	Visibility (mi)	0
I7	03 Aug 2021	Wind Speed (kts)	6.6
I7	03 Aug 2021	Wind Dir	N
I7	03 Aug 2021	Water Color	Blueish-Green
I7	03 Aug 2021	Wave Ht Low (ft)	3.9
I7	03 Aug 2021	Wave Period (sec)	17
I7	03 Aug 2021	Sea State	Confused Swell
I7	03 Aug 2021	High Tide (ft)	5.29
I7	03 Aug 2021	High Tide Time	1830
I7	03 Aug 2021	Low Tide (ft)	0.74
I7	03 Aug 2021	Low Tide Time	130
I7	03 Aug 2021	Comments	none
I8	03 Aug 2021	Depth (m)	37.5
I8	03 Aug 2021	Arrive Time	1215
I8	03 Aug 2021	Depart Time	1219
I8	03 Aug 2021	Air Temp (C)	17.4
I8	03 Aug 2021	Weather	Haze
I8	03 Aug 2021	Visibility (mi)	8
I8	03 Aug 2021	Wind Speed (kts)	2.4
I8	03 Aug 2021	Wind Dir	NW
I8	03 Aug 2021	Water Color	Green
I8	03 Aug 2021	Wave Ht Low (ft)	3
I8	03 Aug 2021	Wave Period (sec)	17
I8	03 Aug 2021	Sea State	Wind Ripples
I8	03 Aug 2021	High Tide (ft)	5.29
I8	03 Aug 2021	High Tide Time	1830
I8	03 Aug 2021	Low Tide (ft)	0.74
I8	03 Aug 2021	Low Tide Time	130
I8	03 Aug 2021	Comments	Kelp Debris
I9	03 Aug 2021	Depth (m)	29.77
I9	03 Aug 2021	Arrive Time	1154
I9	03 Aug 2021	Depart Time	1203
I9	03 Aug 2021	Air Temp (C)	17.5
I9	03 Aug 2021	Weather	Haze
I9	03 Aug 2021	Visibility (mi)	8
I9	03 Aug 2021	Wind Speed (kts)	4.9
I9	03 Aug 2021	Wind Dir	N
I9	03 Aug 2021	Water Color	Green
I9	03 Aug 2021	Wave Ht Low (ft)	3
I9	03 Aug 2021	Wave Period (sec)	17
I9	03 Aug 2021	Sea State	Wind Ripples
I9	03 Aug 2021	High Tide (ft)	5.29
I9	03 Aug 2021	High Tide Time	1830
I9	03 Aug 2021	Low Tide (ft)	0.74
I9	03 Aug 2021	Low Tide Time	130
I9	03 Aug 2021	Comments	none

**Table 4.4**

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 ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I1	03 Aug 2021	1	16.95	83.29	8.6	33.48	8.1	24.4	0.60
I1	03 Aug 2021	2	16.94	83.23	8.7	33.48	8.1	24.4	0.62
I1	03 Aug 2021	3	16.89	83.33	8.7	33.48	8.1	24.4	0.64
I1	03 Aug 2021	4	16.78	83.83	8.5	33.48	8.1	24.4	0.70
I1	03 Aug 2021	5	15.71	84.32	8.6	33.56	8.1	24.7	0.72
I1	03 Aug 2021	6	14.89	85.60	8.7	33.45	8.1	24.8	0.70
I1	03 Aug 2021	7	14.83	86.12	8.7	33.44	8.1	24.8	0.66
I1	03 Aug 2021	8	14.62	86.14	8.6	33.42	8.1	24.8	0.63
I1	03 Aug 2021	9	14.46	85.90	8.6	33.42	8.1	24.9	0.61
I1	03 Aug 2021	10	14.18	85.56	8.6	33.43	8.1	24.9	0.67
I1	03 Aug 2021	11	13.72	84.08	8.6	33.40	8.1	25.0	0.74
I1	03 Aug 2021	12	13.57	82.70	8.7	33.43	8.1	25.1	0.93
I1	03 Aug 2021	13	13.59	81.17	8.7	33.42	8.1	25.0	1.24
I1	03 Aug 2021	14	13.38	80.12	8.7	33.47	8.1	25.1	1.65
I1	03 Aug 2021	15	13.28	78.46	8.5	33.48	8.1	25.2	1.87
I1	03 Aug 2021	16	13.23	76.17	8.3	33.48	8.1	25.2	2.74
I1	03 Aug 2021	17	13.14	78.13	8.2	33.51	8.1	25.2	3.91
I1	03 Aug 2021	18	12.85	79.25	7.9	33.51	8.1	25.3	4.20
I1	03 Aug 2021	19	12.83	79.28	7.6	33.49	8.0	25.3	4.64
I1	03 Aug 2021	20	12.61	81.83	7.3	33.51	8.0	25.3	4.89
I1	03 Aug 2021	21	12.42	83.66	7.0	33.50	8.0	25.3	4.58
I1	03 Aug 2021	22	12.25	85.77	6.8	33.50	8.0	25.4	3.92
I1	03 Aug 2021	23	12.10	87.01	6.6	33.49	8.0	25.4	3.14
I1	03 Aug 2021	24	12.07	87.45	6.5	33.49	8.0	25.4	2.49
I1	03 Aug 2021	25	12.01	87.76	6.4	33.50	8.0	25.4	2.12
I1	03 Aug 2021	26	11.95	87.76	6.4	33.51	7.9	25.4	1.94
I1	03 Aug 2021	27	11.95	88.01	6.4	33.51	7.9	25.4	1.69
I1	03 Aug 2021	28	11.92	88.02	6.3	33.52	7.9	25.5	1.62
I1	03 Aug 2021	29	11.92	87.98	6.3	33.52	7.9	25.5	1.47
I1	03 Aug 2021	30	11.92	88.14	6.3	33.52	7.9	25.5	1.51
I1	03 Aug 2021	31	11.85	88.28	6.2	33.54	7.9	25.5	1.41
I1	03 Aug 2021	32	11.80	88.44	6.1	33.55	7.9	25.5	1.34
I1	03 Aug 2021	33	11.81	88.44	6.0	33.55	7.9	25.5	1.23
I1	03 Aug 2021	34	11.76	88.59	6.0	33.56	7.9	25.5	1.24
I1	03 Aug 2021	35	11.75	88.73	5.9	33.57	7.9	25.5	1.12
I1	03 Aug 2021	36	11.74	88.64	5.8	33.58	7.9	25.5	1.06
I1	03 Aug 2021	37	11.69	88.79	5.7	33.60	7.9	25.6	1.02
I1	03 Aug 2021	38	11.59	89.00	5.5	33.64	7.9	25.6	0.93
I1	03 Aug 2021	39	11.55	89.02	5.4	33.65	7.9	25.6	0.84
I1	03 Aug 2021	40	11.44	89.24	5.3	33.65	7.9	25.6	0.77
I1	03 Aug 2021	41	11.43	89.28	5.3	33.64	7.9	25.6	0.66
I1	03 Aug 2021	42	11.39	89.34	5.3	33.64	7.9	25.6	0.62
I1	03 Aug 2021	43	11.39	89.30	5.3	33.65	7.9	25.7	0.66
I1	03 Aug 2021	44	11.35	89.35	5.2	33.68	7.8	25.7	0.59
I1	03 Aug 2021	45	11.25	89.40	5.1	33.68	7.8	25.7	0.57
I1	03 Aug 2021	46	11.01	89.57	5.1	33.66	7.8	25.7	0.56
I1	03 Aug 2021	47	10.99	89.64	5.2	33.65	7.8	25.7	0.57
I1	03 Aug 2021	48	10.98	89.63	5.2	33.65	7.8	25.7	0.49
I1	03 Aug 2021	49	10.94	89.63	5.2	33.65	7.8	25.7	0.47
I1	03 Aug 2021	50	10.95	89.61	5.2	33.64	7.8	25.7	0.47
I1	03 Aug 2021	51	10.94	89.58	5.2	33.65	7.8	25.7	0.44
I1	03 Aug 2021	52	10.89	89.55	5.2	33.65	7.8	25.7	0.42
I1	03 Aug 2021	53	10.88	89.61	5.2	33.65	7.8	25.7	0.42
I1	03 Aug 2021	54	10.86	89.55	5.2	33.66	7.8	25.8	0.41
I1	03 Aug 2021	55	10.86	89.53	5.1	33.67	7.8	25.8	0.41
I1	03 Aug 2021	56	10.86	89.60	5.1	33.67	7.8	25.8	0.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I1	03 Aug 2021	57	10.88	89.54	5.1	33.67	7.8	25.8	0.36
I1	03 Aug 2021	58	10.88	89.54	5.0	33.68	7.8	25.8	0.37
I1	03 Aug 2021	59	10.89	89.56	5.0	33.69	7.8	25.8	0.35
I1	03 Aug 2021	60	10.93	89.26	4.8	33.73	7.8	25.8	0.37
I10	03 Aug 2021	1	17.51	82.47	8.6	33.51	8.2	24.2	0.40
I10	03 Aug 2021	2	17.24	82.18	8.5	33.53	8.2	24.3	0.42
I10	03 Aug 2021	3	16.54	81.74	8.5	33.55	8.2	24.5	0.45
I10	03 Aug 2021	4	15.90	80.80	8.6	33.54	8.2	24.7	0.53
I10	03 Aug 2021	5	15.66	79.01	8.6	33.54	8.2	24.7	0.65
I10	03 Aug 2021	6	15.13	77.27	8.5	33.55	8.2	24.8	0.79
I10	03 Aug 2021	7	14.34	76.92	8.5	33.54	8.1	25.0	1.00
I10	03 Aug 2021	8	14.16	77.65	8.4	33.49	8.1	25.0	1.30
I10	03 Aug 2021	9	13.44	77.38	8.4	33.49	8.1	25.1	1.72
I10	03 Aug 2021	10	13.39	76.53	8.4	33.48	8.1	25.1	2.36
I10	03 Aug 2021	11	13.38	75.59	8.4	33.48	8.1	25.1	3.25
I10	03 Aug 2021	12	13.31	74.41	8.4	33.49	8.1	25.2	4.02
I10	03 Aug 2021	13	13.22	72.93	8.4	33.50	8.1	25.2	4.96
I10	03 Aug 2021	14	13.07	71.09	8.0	33.52	8.1	25.2	5.92
I10	03 Aug 2021	15	12.21	73.14	6.9	33.61	8.0	25.5	6.65
I10	03 Aug 2021	16	12.09	80.09	5.9	33.60	7.9	25.5	5.88
I10	03 Aug 2021	17	12.11	79.09	5.6	33.59	7.9	25.5	4.59
I10	03 Aug 2021	18	12.02	81.76	5.5	33.60	7.9	25.5	3.62
I10	03 Aug 2021	19	12.01	81.69	5.4	33.60	7.9	25.5	2.85
I11	03 Aug 2021	1	15.97	75.30	8.7	33.54	8.1	24.6	0.76
I11	03 Aug 2021	2	15.81	75.16	8.8	33.54	8.1	24.7	0.82
I11	03 Aug 2021	3	15.59	73.92	8.8	33.54	8.1	24.7	0.98
I11	03 Aug 2021	4	15.42	73.18	8.7	33.54	8.1	24.8	1.27
I11	03 Aug 2021	5	14.49	73.71	8.8	33.57	8.1	25.0	1.55
I11	03 Aug 2021	6	14.21	71.36	8.9	33.54	8.1	25.0	2.26
I11	03 Aug 2021	7	13.96	66.42	8.8	33.55	8.1	25.1	3.60
I11	03 Aug 2021	8	13.30	61.69	8.3	33.58	8.1	25.2	6.71
I11	03 Aug 2021	9	12.57	64.92	7.1	33.59	8.0	25.4	9.51
I11	03 Aug 2021	10	12.30	66.63	6.0	33.59	7.9	25.4	10.26
I11	03 Aug 2021	11	12.12	74.18	5.4	33.60	7.9	25.5	10.33
I11	03 Aug 2021	12	12.04	76.42	5.2	33.60	7.9	25.5	7.73
I11	03 Aug 2021	13	12.04	76.36	5.2	33.60	7.9	25.5	4.98
I12	04 Aug 2021	1	16.17	74.97	8.6	33.53	8.1	24.6	0.92
I12	04 Aug 2021	2	15.99	75.98	8.6	33.58	8.1	24.7	0.93
I12	04 Aug 2021	3	14.62	76.09	8.9	33.70	8.2	25.0	0.94
I12	04 Aug 2021	4	14.23	73.80	9.2	33.57	8.2	25.0	0.97
I12	04 Aug 2021	5	13.80	71.98	9.4	33.58	8.2	25.1	1.22
I12	04 Aug 2021	6	13.55	70.19	9.2	33.54	8.2	25.2	1.82
I12	04 Aug 2021	7	13.39	70.74	9.0	33.51	8.1	25.2	3.17
I12	04 Aug 2021	8	13.21	70.85	8.7	33.52	8.1	25.2	5.10
I12	04 Aug 2021	9	12.88	75.67	8.0	33.46	8.1	25.2	6.37
I12	04 Aug 2021	10	12.70	78.56	7.2	33.43	8.0	25.2	7.24
I12	04 Aug 2021	11	12.56	79.62	6.8	33.43	8.0	25.3	7.47
I12	04 Aug 2021	12	12.29	82.43	6.4	33.44	8.0	25.3	7.03
I12	04 Aug 2021	13	12.23	83.51	6.2	33.46	8.0	25.3	6.14
I12	04 Aug 2021	14	12.22	84.11	6.2	33.47	8.0	25.4	5.00
I12	04 Aug 2021	15	12.17	84.77	6.3	33.47	8.0	25.4	4.18
I12	04 Aug 2021	16	12.21	84.40	6.3	33.48	8.0	25.4	3.76
I12	04 Aug 2021	17	12.22	83.82	6.3	33.51	8.0	25.4	3.52
I12	04 Aug 2021	18	12.16	85.25	6.4	33.54	8.0	25.4	3.27
I12	04 Aug 2021	19	12.10	85.31	6.5	33.55	8.0	25.4	3.22
I12	04 Aug 2021	20	12.09	85.33	6.4	33.54	8.0	25.4	3.33
I12	04 Aug 2021	21	12.06	85.55	6.3	33.55	8.0	25.5	3.02
I12	04 Aug 2021	22	12.06	85.63	6.3	33.55	8.0	25.5	3.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I12	04 Aug 2021	23	11.94	86.06	6.2	33.61	7.9	25.5	3.43
I12	04 Aug 2021	24	11.85	85.87	5.9	33.63	7.9	25.6	2.94
I12	04 Aug 2021	25	11.83	85.53	5.5	33.63	7.9	25.6	3.05
I12	04 Aug 2021	26	11.83	85.19	5.3	33.63	7.9	25.6	2.67
I12	04 Aug 2021	27	11.83	84.97	5.3	33.63	7.9	25.6	2.15
I12	04 Aug 2021	28	11.83	84.56	5.2	33.62	7.9	25.6	2.03
I13	04 Aug 2021	1	15.56	80.57	8.9	33.43	8.2	24.6	0.59
I13	04 Aug 2021	2	15.58	80.85	9.0	33.44	8.2	24.6	0.61
I13	04 Aug 2021	3	15.39	80.95	8.9	33.46	8.2	24.7	0.62
I13	04 Aug 2021	4	15.26	81.57	8.8	33.47	8.1	24.7	0.67
I13	04 Aug 2021	5	14.77	83.06	8.8	33.48	8.1	24.9	0.67
I13	04 Aug 2021	6	14.67	84.84	8.8	33.45	8.1	24.9	0.61
I13	04 Aug 2021	7	14.61	85.17	8.8	33.45	8.1	24.9	0.60
I13	04 Aug 2021	8	14.56	84.85	8.7	33.45	8.1	24.9	0.60
I13	04 Aug 2021	9	14.41	84.40	8.7	33.46	8.1	24.9	0.63
I13	04 Aug 2021	10	14.22	84.16	8.8	33.47	8.1	25.0	0.74
I13	04 Aug 2021	11	13.75	81.89	8.9	33.46	8.1	25.1	0.90
I13	04 Aug 2021	12	13.55	79.93	9.1	33.44	8.1	25.1	1.33
I13	04 Aug 2021	13	13.39	78.02	9.1	33.43	8.1	25.1	1.92
I13	04 Aug 2021	14	13.31	76.42	9.1	33.42	8.1	25.1	2.87
I13	04 Aug 2021	15	13.18	74.41	9.0	33.44	8.1	25.1	3.76
I13	04 Aug 2021	16	13.10	71.55	8.8	33.45	8.1	25.2	4.91
I13	04 Aug 2021	17	12.99	70.91	8.8	33.47	8.1	25.2	6.39
I13	04 Aug 2021	18	12.83	70.05	8.4	33.50	8.1	25.3	8.69
I13	04 Aug 2021	19	12.70	71.77	8.0	33.51	8.1	25.3	9.18
I13	04 Aug 2021	20	12.60	72.83	7.6	33.51	8.0	25.3	10.12
I13	04 Aug 2021	21	12.41	74.87	7.1	33.51	8.0	25.4	9.59
I13	04 Aug 2021	22	12.26	80.79	6.8	33.50	8.0	25.4	8.27
I13	04 Aug 2021	23	12.08	83.33	6.7	33.51	8.0	25.4	7.45
I13	04 Aug 2021	24	12.06	85.88	6.4	33.54	8.0	25.4	6.20
I13	04 Aug 2021	25	12.04	86.66	6.2	33.56	8.0	25.5	4.58
I13	04 Aug 2021	26	12.00	87.66	6.1	33.57	7.9	25.5	3.40
I13	04 Aug 2021	27	12.01	87.77	6.1	33.57	7.9	25.5	2.46
I13	04 Aug 2021	28	11.97	88.01	6.1	33.58	7.9	25.5	1.95
I13	04 Aug 2021	29	11.95	87.88	6.0	33.58	7.9	25.5	1.91
I13	04 Aug 2021	30	11.93	88.01	6.0	33.59	7.9	25.5	1.48
I13	04 Aug 2021	31	11.93	87.84	5.9	33.59	7.9	25.5	1.46
I13	04 Aug 2021	32	11.88	87.48	5.8	33.61	7.9	25.5	1.46
I13	04 Aug 2021	33	11.82	87.40	5.5	33.62	7.9	25.6	1.45
I13	04 Aug 2021	34	11.82	87.25	5.4	33.62	7.9	25.6	1.52
I13	04 Aug 2021	35	11.78	87.17	5.3	33.63	7.9	25.6	1.59
I13	04 Aug 2021	36	11.77	87.23	5.2	33.63	7.9	25.6	1.47
I13	04 Aug 2021	37	11.76	87.09	5.2	33.63	7.9	25.6	1.45
I13	04 Aug 2021	38	11.75	86.99	5.2	33.63	7.9	25.6	1.51
I14	04 Aug 2021	1	16.19	77.02	8.8	33.52	8.1	24.6	0.69
I14	04 Aug 2021	2	16.05	77.52	8.8	33.51	8.1	24.6	0.70
I14	04 Aug 2021	3	14.91	77.67	9.0	33.57	8.2	24.9	0.73
I14	04 Aug 2021	4	14.27	77.09	9.2	33.49	8.2	25.0	0.84
I14	04 Aug 2021	5	13.75	75.70	9.4	33.47	8.2	25.1	0.96
I14	04 Aug 2021	6	13.72	72.99	9.4	33.46	8.2	25.1	1.22
I14	04 Aug 2021	7	13.74	70.34	9.5	33.46	8.2	25.1	2.12
I14	04 Aug 2021	8	13.62	64.58	9.5	33.50	8.2	25.1	3.14
I14	04 Aug 2021	9	13.55	53.78	9.6	33.49	8.2	25.1	7.36
I14	04 Aug 2021	10	13.32	63.35	9.2	33.56	8.2	25.2	15.85
I14	04 Aug 2021	11	12.77	69.06	8.5	33.53	8.1	25.3	19.04
I14	04 Aug 2021	12	12.72	69.97	7.7	33.50	8.0	25.3	18.99
I14	04 Aug 2021	13	12.57	71.51	7.4	33.51	8.0	25.3	16.73
I14	04 Aug 2021	14	12.49	73.81	7.1	33.50	8.0	25.3	14.78
I14	04 Aug 2021	15	12.46	76.92	7.0	33.50	8.0	25.3	13.14

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I14	04 Aug 2021	16	12.41	79.50	7.0	33.50	8.0	25.3	11.15
I14	04 Aug 2021	17	12.20	82.70	6.8	33.52	8.0	25.4	9.84
I14	04 Aug 2021	18	12.24	82.37	6.7	33.49	8.0	25.4	7.51
I14	04 Aug 2021	19	12.13	84.59	6.7	33.51	8.0	25.4	5.81
I14	04 Aug 2021	20	12.12	84.79	6.6	33.51	8.0	25.4	5.01
I14	04 Aug 2021	21	12.12	85.00	6.6	33.51	8.0	25.4	4.41
I14	04 Aug 2021	22	12.11	85.24	6.4	33.53	8.0	25.4	3.80
I14	04 Aug 2021	23	12.11	84.71	6.3	33.53	8.0	25.4	3.50
I14	04 Aug 2021	24	12.02	84.59	6.1	33.58	8.0	25.5	3.36
I14	04 Aug 2021	25	11.92	84.72	5.8	33.61	7.9	25.5	3.06
I14	04 Aug 2021	26	11.92	84.63	5.5	33.61	7.9	25.5	2.85
I14	04 Aug 2021	27	11.89	84.41	5.5	33.62	7.9	25.5	2.57
I14	04 Aug 2021	28	11.88	83.99	5.4	33.61	7.9	25.5	2.44
I15	04 Aug 2021	1	16.59	64.18	8.6	33.52	8.1	24.5	0.77
I15	04 Aug 2021	2	16.33	77.90	8.6	33.58	8.1	24.6	0.84
I15	04 Aug 2021	3	14.92	79.00	8.8	33.62	8.2	24.9	0.80
I15	04 Aug 2021	4	14.52	78.69	9.1	33.43	8.2	24.9	0.86
I15	04 Aug 2021	5	14.32	78.07	9.1	33.55	8.2	25.0	1.04
I15	04 Aug 2021	6	13.86	76.10	9.1	33.47	8.2	25.0	1.09
I15	04 Aug 2021	7	13.83	73.72	9.3	33.47	8.2	25.0	1.34
I15	04 Aug 2021	8	13.72	68.98	9.4	33.49	8.2	25.1	1.87
I15	04 Aug 2021	9	13.58	61.56	9.4	33.50	8.2	25.1	2.82
I15	04 Aug 2021	10	13.45	63.19	9.2	33.53	8.2	25.2	5.46
I15	04 Aug 2021	11	13.14	67.52	9.0	33.52	8.1	25.2	10.55
I15	04 Aug 2021	12	12.94	69.87	8.7	33.55	8.1	25.3	13.85
I15	04 Aug 2021	13	12.79	70.19	8.2	33.51	8.1	25.3	14.09
I15	04 Aug 2021	14	12.75	70.85	7.8	33.51	8.1	25.3	13.60
I15	04 Aug 2021	15	12.71	72.07	7.7	33.51	8.0	25.3	13.33
I15	04 Aug 2021	16	12.67	73.43	7.5	33.51	8.0	25.3	12.34
I15	04 Aug 2021	17	12.63	75.11	7.3	33.51	8.0	25.3	11.67
I15	04 Aug 2021	18	12.61	76.78	7.2	33.52	8.0	25.3	10.55
I15	04 Aug 2021	19	12.27	82.00	7.0	33.54	8.0	25.4	9.86
I15	04 Aug 2021	20	12.19	83.71	6.8	33.51	8.0	25.4	9.34
I15	04 Aug 2021	21	12.18	83.86	6.8	33.51	8.0	25.4	7.51
I15	04 Aug 2021	22	12.12	84.91	6.6	33.51	8.0	25.4	6.32
I15	04 Aug 2021	23	12.08	85.34	6.3	33.52	8.0	25.4	5.29
I15	04 Aug 2021	24	11.99	85.88	6.1	33.58	7.9	25.5	3.95
I15	04 Aug 2021	25	11.94	86.41	5.9	33.59	7.9	25.5	3.69
I15	04 Aug 2021	26	11.90	86.64	5.8	33.61	7.9	25.5	3.01
I15	04 Aug 2021	27	11.83	86.10	5.6	33.62	7.9	25.6	2.63
I15	04 Aug 2021	28	11.82	85.63	5.4	33.63	7.9	25.6	2.55
I15	04 Aug 2021	29	11.84	85.68	5.3	33.62	7.9	25.5	2.06
I15	04 Aug 2021	30	11.82	85.18	5.3	33.62	7.9	25.6	1.85
I15	04 Aug 2021	31	11.82	85.18	5.3	33.62	7.9	25.6	2.00
I16	04 Aug 2021	1	15.65	76.00	8.8	33.49	8.1	24.7	1.35
I16	04 Aug 2021	2	14.94	76.06	8.9	33.60	8.1	24.9	1.33
I16	04 Aug 2021	3	14.42	74.99	9.3	33.50	8.2	24.9	1.39
I16	04 Aug 2021	4	14.10	72.88	9.4	33.55	8.2	25.0	1.48
I16	04 Aug 2021	5	13.93	69.73	9.4	33.52	8.2	25.1	1.77
I16	04 Aug 2021	6	13.83	56.73	9.5	33.52	8.2	25.1	2.55
I16	04 Aug 2021	7	13.65	51.07	9.6	33.53	8.2	25.1	5.71
I16	04 Aug 2021	8	13.47	57.26	9.4	33.53	8.2	25.2	13.95
I16	04 Aug 2021	9	13.10	63.29	9.0	33.56	8.1	25.3	21.90
I16	04 Aug 2021	10	12.95	67.64	8.4	33.52	8.1	25.3	23.46
I16	04 Aug 2021	11	12.69	70.60	7.9	33.52	8.1	25.3	22.07
I16	04 Aug 2021	12	12.49	76.99	7.3	33.44	8.0	25.3	20.06
I16	04 Aug 2021	13	12.33	79.17	6.8	33.47	8.0	25.3	17.43
I16	04 Aug 2021	14	12.24	81.90	6.6	33.48	8.0	25.4	14.01
I16	04 Aug 2021	15	12.22	83.08	6.4	33.46	8.0	25.4	10.23

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I16	04 Aug 2021	16	12.23	83.19	6.4	33.46	8.0	25.4	8.37
I16	04 Aug 2021	17	12.23	83.06	6.6	33.49	8.0	25.4	6.57
I16	04 Aug 2021	18	12.20	83.55	6.7	33.50	8.0	25.4	5.56
I16	04 Aug 2021	19	12.15	84.32	6.6	33.51	8.0	25.4	4.98
I16	04 Aug 2021	20	12.12	84.95	6.5	33.52	8.0	25.4	4.70
I16	04 Aug 2021	21	12.12	85.08	6.3	33.52	8.0	25.4	4.39
I16	04 Aug 2021	22	12.12	84.71	6.3	33.54	8.0	25.4	4.01
I16	04 Aug 2021	23	12.13	84.70	6.3	33.54	8.0	25.4	3.83
I16	04 Aug 2021	24	12.12	84.68	6.3	33.53	8.0	25.4	3.65
I16	04 Aug 2021	25	12.11	84.55	6.2	33.56	8.0	25.4	3.48
I16	04 Aug 2021	26	12.06	84.30	6.2	33.59	7.9	25.5	3.23
I16	04 Aug 2021	27	11.92	84.51	5.9	33.62	7.9	25.5	3.39
I16	04 Aug 2021	28	11.89	84.58	5.5	33.62	7.9	25.5	3.57
I17	04 Aug 2021	1	15.96	75.02	8.7	33.48	8.1	24.6	1.55
I17	04 Aug 2021	2	15.95	74.88	8.6	33.55	8.1	24.6	1.60
I17	04 Aug 2021	3	14.78	74.90	8.8	33.64	8.2	25.0	1.56
I17	04 Aug 2021	4	14.47	73.06	9.2	33.58	8.2	25.0	1.65
I17	04 Aug 2021	5	14.03	71.69	9.2	33.60	8.2	25.1	2.06
I17	04 Aug 2021	6	13.42	68.32	9.0	33.62	8.2	25.2	2.55
I17	04 Aug 2021	7	12.83	66.26	8.6	33.60	8.1	25.3	3.72
I17	04 Aug 2021	8	12.68	66.62	8.0	33.52	8.1	25.3	6.03
I17	04 Aug 2021	9	12.63	68.54	7.5	33.51	8.0	25.3	8.59
I17	04 Aug 2021	10	12.51	70.97	7.2	33.52	8.0	25.3	11.44
I17	04 Aug 2021	11	12.34	76.02	7.0	33.50	8.0	25.4	12.56
I17	04 Aug 2021	12	12.34	80.91	6.7	33.48	8.0	25.3	12.52
I17	04 Aug 2021	13	12.31	81.37	6.7	33.49	8.0	25.4	11.27
I17	04 Aug 2021	14	12.28	81.67	6.6	33.49	8.0	25.4	9.82
I17	04 Aug 2021	15	12.25	82.86	6.6	33.50	8.0	25.4	8.70
I17	04 Aug 2021	16	12.21	83.59	6.6	33.51	8.0	25.4	7.06
I17	04 Aug 2021	17	12.15	84.58	6.5	33.51	8.0	25.4	6.10
I17	04 Aug 2021	18	12.19	84.12	6.4	33.54	8.0	25.4	5.90
I17	04 Aug 2021	19	12.20	83.77	6.5	33.56	8.0	25.4	4.85
I17	04 Aug 2021	20	12.06	83.62	6.4	33.61	8.0	25.5	4.16
I17	04 Aug 2021	21	12.01	84.37	6.0	33.62	7.9	25.5	3.48
I17	04 Aug 2021	22	11.89	84.48	5.7	33.63	7.9	25.5	3.35
I17	04 Aug 2021	23	11.89	84.26	5.4	33.62	7.9	25.5	3.24
I17	04 Aug 2021	24	11.89	83.92	5.4	33.62	7.9	25.5	2.77
I17	04 Aug 2021	25	11.88	83.78	5.3	33.63	7.9	25.5	2.63
I18	04 Aug 2021	1	16.00	72.05	8.6	33.56	8.1	24.6	2.27
I18	04 Aug 2021	2	15.77	71.58	8.7	33.63	8.1	24.7	2.28
I18	04 Aug 2021	3	14.94	70.86	9.0	33.61	8.2	24.9	2.29
I18	04 Aug 2021	4	14.82	69.69	9.4	33.56	8.2	24.9	2.50
I18	04 Aug 2021	5	14.80	69.62	9.3	33.59	8.2	24.9	3.12
I18	04 Aug 2021	6	13.50	68.29	9.3	33.70	8.2	25.3	3.76
I18	04 Aug 2021	7	13.05	62.77	9.0	33.59	8.1	25.3	4.30
I18	04 Aug 2021	8	12.80	64.77	8.3	33.55	8.1	25.3	7.64
I18	04 Aug 2021	9	12.56	72.31	7.5	33.53	8.0	25.3	12.00
I18	04 Aug 2021	10	12.51	75.79	7.1	33.52	8.0	25.3	14.43
I18	04 Aug 2021	11	12.45	77.02	6.9	33.52	8.0	25.4	13.30
I18	04 Aug 2021	12	12.40	77.42	6.8	33.52	8.0	25.4	12.19
I18	04 Aug 2021	13	12.36	77.15	6.8	33.52	8.0	25.4	10.85
I18	04 Aug 2021	14	12.30	77.68	6.7	33.53	8.0	25.4	9.41
I18	04 Aug 2021	15	12.26	78.25	6.6	33.55	8.0	25.4	8.65
I18	04 Aug 2021	16	12.27	79.42	6.4	33.58	8.0	25.4	7.96
I18	04 Aug 2021	17	12.20	79.88	6.2	33.61	7.9	25.5	7.08
I18	04 Aug 2021	18	11.99	82.13	5.9	33.64	7.9	25.5	6.48
I18	04 Aug 2021	19	11.93	82.40	5.5	33.63	7.9	25.5	5.96
I2	03 Aug 2021	1	17.32	80.74	8.5	33.52	8.1	24.3	0.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I2	03 Aug 2021	2	17.32	80.67	8.5	33.52	8.1	24.3	0.51
I2	03 Aug 2021	3	17.28	80.59	8.5	33.52	8.1	24.3	0.53
I2	03 Aug 2021	4	17.23	80.68	8.5	33.53	8.1	24.3	0.57
I2	03 Aug 2021	5	17.02	80.81	8.4	33.53	8.1	24.4	0.62
I2	03 Aug 2021	6	16.08	81.06	8.4	33.57	8.1	24.6	0.68
I2	03 Aug 2021	7	15.02	82.14	8.6	33.55	8.1	24.8	0.78
I2	03 Aug 2021	8	14.11	82.80	8.5	33.52	8.1	25.0	0.84
I2	03 Aug 2021	9	13.57	81.57	8.4	33.49	8.1	25.1	1.03
I2	03 Aug 2021	10	13.16	81.30	8.3	33.46	8.1	25.2	1.50
I2	03 Aug 2021	11	13.01	81.80	8.1	33.44	8.1	25.2	2.44
I2	03 Aug 2021	12	12.85	82.52	7.9	33.45	8.1	25.2	3.37
I2	03 Aug 2021	13	12.63	83.33	7.6	33.45	8.0	25.3	3.28
I2	03 Aug 2021	14	12.58	83.87	7.4	33.45	8.0	25.3	3.31
I2	03 Aug 2021	15	12.51	84.34	7.3	33.47	8.0	25.3	3.75
I2	03 Aug 2021	16	12.41	84.28	7.2	33.50	8.0	25.3	3.47
I2	03 Aug 2021	17	12.35	84.78	7.1	33.51	8.0	25.4	3.50
I2	03 Aug 2021	18	12.25	85.02	7.0	33.52	8.0	25.4	3.82
I2	03 Aug 2021	19	12.17	85.26	6.8	33.52	8.0	25.4	3.40
I2	03 Aug 2021	20	12.12	86.05	6.7	33.53	8.0	25.4	3.26
I2	03 Aug 2021	21	12.10	86.31	6.6	33.53	8.0	25.4	3.70
I2	03 Aug 2021	22	12.06	86.69	6.5	33.54	8.0	25.4	3.59
I2	03 Aug 2021	23	12.04	86.91	6.4	33.55	8.0	25.5	2.92
I2	03 Aug 2021	24	12.03	86.96	6.4	33.55	8.0	25.5	2.76
I2	03 Aug 2021	25	12.04	86.96	6.3	33.56	8.0	25.5	2.48
I2	03 Aug 2021	26	12.05	87.13	6.2	33.57	7.9	25.5	2.18
I2	03 Aug 2021	27	11.98	86.92	6.1	33.60	7.9	25.5	2.26
I2	03 Aug 2021	28	11.93	86.55	5.8	33.61	7.9	25.5	2.04
I2	03 Aug 2021	29	11.93	86.43	5.7	33.61	7.9	25.5	1.91
I2	03 Aug 2021	30	11.93	86.42	5.7	33.61	7.9	25.5	1.83
I2	03 Aug 2021	31	11.93	86.33	5.8	33.60	7.9	25.5	1.78
I2	03 Aug 2021	32	11.92	86.23	5.7	33.60	7.9	25.5	1.68
I20	04 Aug 2021	1	16.47	80.82	8.6	33.44	8.1	24.4	0.74
I20	04 Aug 2021	2	16.46	80.06	8.6	33.43	8.1	24.4	0.75
I20	04 Aug 2021	3	16.46	83.66	8.7	33.46	8.1	24.5	0.75
I20	04 Aug 2021	4	16.46	84.54	8.7	33.46	8.1	24.5	0.81
I20	04 Aug 2021	5	16.42	84.72	8.7	33.48	8.1	24.5	0.89
I20	04 Aug 2021	6	16.11	84.50	8.7	33.56	8.1	24.6	0.85
I20	04 Aug 2021	7	15.67	84.80	8.8	33.48	8.1	24.7	0.85
I20	04 Aug 2021	8	15.19	85.84	8.7	33.56	8.1	24.8	0.87
I20	04 Aug 2021	9	14.85	85.98	8.6	33.52	8.1	24.9	0.80
I20	04 Aug 2021	10	14.64	86.03	8.7	33.52	8.1	24.9	0.81
I20	04 Aug 2021	11	14.29	85.64	8.6	33.51	8.1	25.0	0.86
I20	04 Aug 2021	12	14.15	84.58	8.7	33.48	8.1	25.0	1.01
I20	04 Aug 2021	13	14.04	84.16	8.6	33.47	8.1	25.0	1.26
I20	04 Aug 2021	14	13.88	83.68	8.7	33.46	8.1	25.0	1.61
I20	04 Aug 2021	15	13.82	83.35	8.7	33.45	8.1	25.0	1.93
I20	04 Aug 2021	16	13.78	82.91	8.8	33.46	8.1	25.0	2.04
I20	04 Aug 2021	17	13.71	82.73	8.8	33.46	8.1	25.1	2.35
I20	04 Aug 2021	18	13.38	82.15	8.9	33.48	8.1	25.1	2.67
I20	04 Aug 2021	19	13.21	80.43	9.1	33.49	8.1	25.2	2.79
I20	04 Aug 2021	20	13.04	78.45	9.1	33.50	8.1	25.2	3.52
I20	04 Aug 2021	21	13.03	78.37	9.0	33.49	8.1	25.2	4.09
I20	04 Aug 2021	22	12.88	76.66	8.9	33.55	8.1	25.3	5.69
I20	04 Aug 2021	23	12.64	73.34	8.5	33.56	8.1	25.3	6.07
I20	04 Aug 2021	24	12.56	72.23	8.1	33.56	8.0	25.4	7.40
I20	04 Aug 2021	25	12.46	73.15	7.7	33.58	8.0	25.4	9.44
I20	04 Aug 2021	26	12.30	75.67	7.2	33.60	8.0	25.4	10.67
I20	04 Aug 2021	27	12.31	75.35	6.8	33.58	8.0	25.4	11.06
I20	04 Aug 2021	28	12.08	79.18	6.7	33.64	8.0	25.5	10.64
I20	04 Aug 2021	29	11.82	85.20	6.4	33.58	7.9	25.5	9.76

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I20	04 Aug 2021	30	11.83	85.02	6.2	33.56	7.9	25.5	8.70
I20	04 Aug 2021	31	11.82	86.97	6.1	33.58	7.9	25.5	6.93
I20	04 Aug 2021	32	11.78	87.73	6.0	33.58	7.9	25.5	5.10
I20	04 Aug 2021	33	11.81	87.35	6.0	33.57	7.9	25.5	3.20
I20	04 Aug 2021	34	11.74	88.11	6.0	33.60	7.9	25.6	2.57
I20	04 Aug 2021	35	11.71	88.44	5.8	33.62	7.9	25.6	2.38
I20	04 Aug 2021	36	11.72	88.35	5.7	33.63	7.9	25.6	2.06
I20	04 Aug 2021	37	11.72	88.51	5.6	33.63	7.9	25.6	1.68
I20	04 Aug 2021	38	11.68	88.55	5.5	33.65	7.9	25.6	1.59
I20	04 Aug 2021	39	11.67	88.55	5.5	33.65	7.9	25.6	1.37
I20	04 Aug 2021	40	11.60	88.59	5.4	33.66	7.8	25.6	1.30
I20	04 Aug 2021	41	11.56	88.63	5.4	33.66	7.8	25.6	1.20
I20	04 Aug 2021	42	11.56	88.59	5.3	33.66	7.8	25.6	1.09
I20	04 Aug 2021	43	11.54	88.61	5.2	33.67	7.8	25.6	1.01
I20	04 Aug 2021	44	11.49	88.64	5.2	33.67	7.8	25.7	1.02
I20	04 Aug 2021	45	11.45	88.28	5.1	33.68	7.8	25.7	0.93
I20	04 Aug 2021	46	11.41	88.46	5.0	33.69	7.8	25.7	0.94
I20	04 Aug 2021	47	11.40	88.44	5.0	33.69	7.8	25.7	0.89
I20	04 Aug 2021	48	11.38	88.38	5.0	33.69	7.8	25.7	0.87
I20	04 Aug 2021	49	11.36	88.43	4.9	33.69	7.8	25.7	0.80
I20	04 Aug 2021	50	11.29	88.66	5.0	33.70	7.8	25.7	0.83
I20	04 Aug 2021	51	11.23	88.75	5.0	33.71	7.8	25.7	0.87
I20	04 Aug 2021	52	11.19	88.86	4.9	33.72	7.8	25.7	0.75
I20	04 Aug 2021	53	11.17	88.85	4.8	33.74	7.8	25.8	0.77
I20	04 Aug 2021	54	11.18	88.71	4.7	33.74	7.8	25.8	0.69
I20	04 Aug 2021	55	11.13	88.04	4.6	33.76	7.8	25.8	0.61
I21	04 Aug 2021	1	15.66	81.58	8.8	33.46	8.1	24.6	1.16
I21	04 Aug 2021	2	15.45	82.28	8.8	33.47	8.1	24.7	1.17
I21	04 Aug 2021	3	15.32	83.04	8.7	33.46	8.1	24.7	1.18
I21	04 Aug 2021	4	15.16	83.00	8.7	33.48	8.1	24.8	1.22
I21	04 Aug 2021	5	14.92	84.46	8.7	33.51	8.1	24.8	1.18
I21	04 Aug 2021	6	14.40	85.22	8.7	33.51	8.1	25.0	1.08
I21	04 Aug 2021	7	14.30	84.56	8.7	33.46	8.1	24.9	0.98
I21	04 Aug 2021	8	14.22	84.16	8.7	33.47	8.1	25.0	1.02
I21	04 Aug 2021	9	14.05	83.60	8.7	33.48	8.1	25.0	1.21
I21	04 Aug 2021	10	13.67	82.69	8.8	33.51	8.1	25.1	1.33
I21	04 Aug 2021	11	13.47	79.93	8.8	33.46	8.1	25.1	1.62
I21	04 Aug 2021	12	13.52	80.13	8.9	33.42	8.1	25.1	2.40
I21	04 Aug 2021	13	13.43	79.06	8.9	33.48	8.1	25.1	3.51
I21	04 Aug 2021	14	13.23	77.21	8.8	33.48	8.1	25.2	4.18
I21	04 Aug 2021	15	13.05	75.52	8.8	33.51	8.1	25.2	4.49
I21	04 Aug 2021	16	12.95	75.02	8.6	33.52	8.1	25.3	6.06
I21	04 Aug 2021	17	12.62	73.69	8.2	33.56	8.1	25.4	7.05
I21	04 Aug 2021	18	12.54	74.58	7.6	33.55	8.0	25.4	7.82
I21	04 Aug 2021	19	12.33	76.88	7.2	33.58	8.0	25.4	8.63
I21	04 Aug 2021	20	12.38	79.63	6.9	33.55	8.0	25.4	9.11
I21	04 Aug 2021	21	12.06	82.66	6.7	33.56	8.0	25.5	8.58
I21	04 Aug 2021	22	11.93	85.00	6.4	33.55	7.9	25.5	7.71
I21	04 Aug 2021	23	11.91	86.45	6.3	33.53	7.9	25.5	6.23
I21	04 Aug 2021	24	11.86	87.11	6.3	33.53	7.9	25.5	4.92
I21	04 Aug 2021	25	11.84	87.29	6.2	33.53	7.9	25.5	3.89
I21	04 Aug 2021	26	11.85	87.59	6.2	33.54	7.9	25.5	3.74
I21	04 Aug 2021	27	11.86	87.43	6.1	33.55	7.9	25.5	2.74
I21	04 Aug 2021	28	11.91	88.00	6.0	33.58	7.9	25.5	2.58
I21	04 Aug 2021	29	11.92	88.09	5.9	33.60	7.9	25.5	1.88
I21	04 Aug 2021	30	11.85	88.06	5.8	33.62	7.9	25.5	1.87
I21	04 Aug 2021	31	11.78	87.99	5.6	33.64	7.9	25.6	1.74
I21	04 Aug 2021	32	11.76	87.84	5.5	33.64	7.9	25.6	1.75
I21	04 Aug 2021	33	11.69	87.86	5.3	33.65	7.9	25.6	1.51
I21	04 Aug 2021	34	11.69	87.78	5.2	33.65	7.9	25.6	1.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I21	04 Aug 2021	35	11.68	87.74	5.2	33.65	7.9	25.6	1.15
I21	04 Aug 2021	36	11.65	87.69	5.1	33.66	7.8	25.6	1.27
I21	04 Aug 2021	37	11.65	87.60	5.1	33.65	7.8	25.6	1.16
I21	04 Aug 2021	38	11.64	87.48	5.1	33.65	7.8	25.6	1.06
I21	04 Aug 2021	39	11.63	87.60	5.1	33.65	7.8	25.6	1.15
I21	04 Aug 2021	40	11.63	87.49	5.0	33.65	7.8	25.6	1.15
I21	04 Aug 2021	41	11.63	87.51	5.0	33.65	7.8	25.6	1.14
I22	04 Aug 2021	1	15.06	77.47	9.0	33.46	8.1	24.8	1.87
I22	04 Aug 2021	2	15.27	77.65	8.9	33.42	8.1	24.7	1.94
I22	04 Aug 2021	3	14.33	77.16	8.9	33.64	8.2	25.1	1.84
I22	04 Aug 2021	4	13.86	75.28	9.2	33.48	8.2	25.0	1.86
I22	04 Aug 2021	5	13.84	74.42	9.2	33.46	8.2	25.0	2.05
I22	04 Aug 2021	6	13.67	73.03	9.2	33.50	8.2	25.1	2.54
I22	04 Aug 2021	7	13.49	72.90	9.1	33.50	8.1	25.1	3.22
I22	04 Aug 2021	8	13.13	71.40	8.9	33.53	8.1	25.2	4.18
I22	04 Aug 2021	9	13.07	70.54	8.6	33.50	8.1	25.2	5.06
I22	04 Aug 2021	10	13.02	70.01	8.5	33.50	8.1	25.2	6.09
I22	04 Aug 2021	11	12.95	69.10	8.3	33.52	8.1	25.3	7.95
I22	04 Aug 2021	12	12.77	69.40	8.0	33.54	8.1	25.3	9.06
I22	04 Aug 2021	13	12.58	70.09	7.6	33.53	8.0	25.3	10.45
I22	04 Aug 2021	14	12.52	75.99	7.3	33.52	8.0	25.3	10.94
I22	04 Aug 2021	15	12.49	78.23	7.2	33.51	8.0	25.3	10.90
I22	04 Aug 2021	16	12.42	79.25	7.1	33.51	8.0	25.4	9.76
I22	04 Aug 2021	17	12.28	80.02	7.0	33.52	8.0	25.4	8.83
I22	04 Aug 2021	18	12.21	81.73	6.8	33.52	8.0	25.4	8.15
I22	04 Aug 2021	19	12.04	83.90	6.7	33.52	8.0	25.4	7.27
I22	04 Aug 2021	20	12.02	85.15	6.5	33.51	8.0	25.4	6.61
I22	04 Aug 2021	21	12.01	85.50	6.4	33.53	8.0	25.4	5.62
I22	04 Aug 2021	22	12.04	85.70	6.4	33.53	8.0	25.4	4.67
I22	04 Aug 2021	23	12.01	86.72	6.3	33.56	8.0	25.5	3.63
I22	04 Aug 2021	24	11.97	87.02	6.1	33.58	7.9	25.5	3.41
I22	04 Aug 2021	25	11.92	87.00	5.9	33.60	7.9	25.5	2.81
I22	04 Aug 2021	26	11.87	85.81	5.7	33.61	7.9	25.5	2.56
I22	04 Aug 2021	27	11.86	85.63	5.7	33.62	7.9	25.5	1.98
I22	04 Aug 2021	28	11.83	85.25	5.5	33.62	7.9	25.6	1.85
I23	04 Aug 2021	1	16.06	76.04	8.5	33.56	8.1	24.6	1.53
I23	04 Aug 2021	2	15.55	74.47	8.6	33.66	8.1	24.8	1.61
I23	04 Aug 2021	3	14.74	72.48	9.0	33.68	8.2	25.0	1.69
I23	04 Aug 2021	4	14.18	67.69	9.2	33.63	8.2	25.1	1.92
I23	04 Aug 2021	5	13.95	63.79	9.3	33.59	8.2	25.1	2.74
I23	04 Aug 2021	6	13.58	62.21	9.1	33.62	8.2	25.2	4.68
I23	04 Aug 2021	7	13.20	66.48	8.7	33.61	8.1	25.3	7.96
I23	04 Aug 2021	8	12.96	71.47	8.3	33.58	8.1	25.3	11.29
I23	04 Aug 2021	9	12.76	72.62	7.9	33.58	8.1	25.3	12.89
I23	04 Aug 2021	10	12.59	70.62	7.5	33.56	8.0	25.4	12.73
I23	04 Aug 2021	11	12.51	68.02	7.2	33.56	8.0	25.4	11.91
I23	04 Aug 2021	12	12.42	69.32	6.9	33.58	8.0	25.4	11.62
I23	04 Aug 2021	13	12.33	72.31	6.6	33.56	8.0	25.4	12.52
I23	04 Aug 2021	14	12.23	69.50	6.3	33.59	7.9	25.4	13.68
I23	04 Aug 2021	15	12.26	71.12	6.1	33.58	7.9	25.4	13.87
I23	04 Aug 2021	16	12.04	78.97	5.8	33.65	7.9	25.5	13.84
I23	04 Aug 2021	17	11.94	79.00	5.5	33.66	7.9	25.6	14.10
I23	04 Aug 2021	18	11.96	78.46	5.2	33.65	7.9	25.5	13.38
I23	04 Aug 2021	19	11.92	77.84	5.1	33.65	7.9	25.6	10.84
I23	04 Aug 2021	20	11.92	76.80	5.1	33.64	7.9	25.6	8.26
I23	04 Aug 2021	21	11.92	75.65	5.1	33.64	7.9	25.6	6.68
I27	04 Aug 2021	1	14.57	75.47	9.0	33.45	8.1	24.9	1.94
I27	04 Aug 2021	2	14.45	75.62	9.0	33.45	8.1	24.9	1.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I27	04 Aug 2021	3	13.93	76.53	9.0	33.52	8.1	25.1	1.91
I27	04 Aug 2021	4	13.51	76.23	9.0	33.48	8.1	25.1	2.05
I27	04 Aug 2021	5	13.21	74.96	9.0	33.48	8.1	25.2	2.31
I27	04 Aug 2021	6	13.15	73.44	9.0	33.47	8.1	25.2	3.32
I27	04 Aug 2021	7	13.08	72.24	8.8	33.47	8.1	25.2	3.97
I27	04 Aug 2021	8	12.99	71.77	8.8	33.48	8.1	25.2	5.01
I27	04 Aug 2021	9	12.91	71.29	8.6	33.49	8.1	25.2	6.59
I27	04 Aug 2021	10	12.78	71.32	8.3	33.51	8.1	25.3	7.14
I27	04 Aug 2021	11	12.72	71.81	8.2	33.51	8.1	25.3	8.74
I27	04 Aug 2021	12	12.67	74.15	7.9	33.51	8.1	25.3	9.51
I27	04 Aug 2021	13	12.61	75.60	7.7	33.52	8.0	25.3	9.83
I27	04 Aug 2021	14	12.57	76.86	7.5	33.52	8.0	25.3	9.79
I27	04 Aug 2021	15	12.37	81.12	7.3	33.56	8.0	25.4	9.16
I27	04 Aug 2021	16	12.21	83.06	6.9	33.53	8.0	25.4	8.52
I27	04 Aug 2021	17	12.20	84.08	6.8	33.52	8.0	25.4	7.54
I27	04 Aug 2021	18	12.06	85.06	6.6	33.54	8.0	25.4	6.12
I27	04 Aug 2021	19	11.93	86.49	6.4	33.53	8.0	25.5	5.51
I27	04 Aug 2021	20	11.92	86.87	6.3	33.53	7.9	25.5	4.42
I27	04 Aug 2021	21	11.94	87.08	6.3	33.53	7.9	25.5	3.31
I27	04 Aug 2021	22	11.96	87.50	6.1	33.57	7.9	25.5	2.95
I27	04 Aug 2021	23	11.94	87.83	6.0	33.59	7.9	25.5	2.55
I27	04 Aug 2021	24	11.91	87.74	5.9	33.60	7.9	25.5	2.29
I27	04 Aug 2021	25	11.89	87.99	5.8	33.60	7.9	25.5	2.15
I27	04 Aug 2021	26	11.83	87.27	5.7	33.62	7.9	25.6	1.81
I27	04 Aug 2021	27	11.80	86.33	5.5	33.62	7.9	25.6	1.72
I27	04 Aug 2021	28	11.77	85.77	5.3	33.63	7.9	25.6	1.57
I28	05 Aug 2021	1	17.08	81.66	9.0	33.48	8.2	24.3	1.26
I28	05 Aug 2021	2	17.06	81.39	9.0	33.48	8.2	24.3	1.19
I28	05 Aug 2021	3	16.95	80.38	9.0	33.50	8.2	24.4	1.24
I28	05 Aug 2021	4	16.28	82.06	9.2	33.54	8.2	24.6	1.35
I28	05 Aug 2021	5	15.97	82.98	9.3	33.50	8.2	24.6	1.53
I28	05 Aug 2021	6	15.67	83.10	9.2	33.51	8.2	24.7	1.29
I28	05 Aug 2021	7	14.94	82.51	9.1	33.55	8.2	24.9	1.55
I28	05 Aug 2021	8	14.43	82.89	8.9	33.50	8.1	24.9	1.55
I28	05 Aug 2021	9	14.28	83.24	8.8	33.45	8.1	24.9	1.43
I28	05 Aug 2021	10	14.19	83.64	8.8	33.44	8.1	24.9	1.57
I28	05 Aug 2021	11	14.24	83.39	8.8	33.43	8.1	24.9	1.75
I28	05 Aug 2021	12	14.01	84.02	8.7	33.45	8.1	25.0	1.70
I28	05 Aug 2021	13	13.86	83.81	8.6	33.42	8.1	25.0	1.73
I28	05 Aug 2021	14	13.81	83.14	8.6	33.42	8.1	25.0	2.07
I28	05 Aug 2021	15	13.73	82.94	8.6	33.42	8.1	25.0	2.79
I28	05 Aug 2021	16	13.42	82.39	8.4	33.42	8.1	25.1	2.85
I28	05 Aug 2021	17	13.31	81.58	8.3	33.41	8.1	25.1	3.40
I28	05 Aug 2021	18	13.28	81.92	8.2	33.41	8.1	25.1	4.23
I28	05 Aug 2021	19	13.09	81.16	8.1	33.43	8.1	25.2	4.95
I28	05 Aug 2021	20	12.94	80.62	8.1	33.44	8.1	25.2	5.13
I28	05 Aug 2021	21	12.86	79.47	8.1	33.48	8.1	25.2	5.75
I28	05 Aug 2021	22	12.83	77.94	8.3	33.49	8.1	25.3	7.47
I28	05 Aug 2021	23	12.82	76.43	8.2	33.49	8.1	25.3	8.25
I28	05 Aug 2021	24	12.76	76.37	8.2	33.51	8.1	25.3	8.42
I28	05 Aug 2021	25	12.71	76.99	8.0	33.52	8.1	25.3	9.53
I28	05 Aug 2021	26	12.67	77.21	7.8	33.53	8.1	25.3	9.48
I28	05 Aug 2021	27	12.60	76.57	7.7	33.54	8.0	25.3	9.40
I28	05 Aug 2021	28	12.52	76.56	7.5	33.55	8.0	25.4	9.58
I28	05 Aug 2021	29	12.40	76.94	7.3	33.56	8.0	25.4	9.56
I28	05 Aug 2021	30	12.34	77.12	7.0	33.57	8.0	25.4	9.71
I28	05 Aug 2021	31	12.21	78.71	6.7	33.59	8.0	25.5	9.60
I28	05 Aug 2021	32	12.10	80.56	6.4	33.58	8.0	25.5	9.10
I28	05 Aug 2021	33	11.96	81.97	6.2	33.58	7.9	25.5	8.36
I28	05 Aug 2021	34	11.84	84.31	6.1	33.56	7.9	25.5	6.79

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I28	05 Aug 2021	35	11.80	86.29	6.0	33.55	7.9	25.5	4.98
I28	05 Aug 2021	36	11.80	87.70	6.0	33.56	7.9	25.5	3.75
I28	05 Aug 2021	37	11.79	88.02	6.0	33.56	7.9	25.5	2.96
I28	05 Aug 2021	38	11.83	87.95	5.9	33.58	7.9	25.5	2.58
I28	05 Aug 2021	39	11.82	88.26	5.8	33.62	7.9	25.5	2.07
I28	05 Aug 2021	40	11.78	88.11	5.7	33.63	7.9	25.6	1.79
I28	05 Aug 2021	41	11.75	88.18	5.6	33.63	7.9	25.6	1.55
I28	05 Aug 2021	42	11.57	88.60	5.4	33.67	7.9	25.6	1.31
I28	05 Aug 2021	43	11.50	88.54	5.2	33.67	7.9	25.6	1.45
I28	05 Aug 2021	44	11.49	88.41	5.1	33.67	7.8	25.6	1.19
I28	05 Aug 2021	45	11.46	88.33	5.0	33.68	7.8	25.7	1.11
I28	05 Aug 2021	46	11.41	88.12	4.9	33.69	7.8	25.7	0.94
I28	05 Aug 2021	47	11.37	87.88	4.8	33.70	7.8	25.7	0.95
I28	05 Aug 2021	48	11.34	87.79	4.7	33.71	7.8	25.7	0.92
I28	05 Aug 2021	49	11.30	87.98	4.7	33.72	7.8	25.7	0.94
I28	05 Aug 2021	50	11.17	87.98	4.6	33.75	7.8	25.8	0.84
I28	05 Aug 2021	51	11.13	87.68	4.5	33.76	7.8	25.8	0.86
I28	05 Aug 2021	52	11.12	87.06	4.4	33.76	7.8	25.8	0.79
I28	05 Aug 2021	53	11.12	87.10	4.4	33.76	7.8	25.8	0.85
I28	05 Aug 2021	54	11.12	87.13	4.3	33.76	7.8	25.8	0.69
I28	05 Aug 2021	55	11.12	87.13	4.4	33.76	7.8	25.8	0.67
I29	05 Aug 2021	1	15.18	79.91	9.1	33.45	8.1	24.7	1.50
I29	05 Aug 2021	2	15.06	80.08	9.0	33.45	8.1	24.8	1.58
I29	05 Aug 2021	3	14.48	80.21	8.9	33.45	8.1	24.9	1.65
I29	05 Aug 2021	4	14.09	80.24	9.0	33.45	8.1	25.0	2.00
I29	05 Aug 2021	5	13.95	80.82	8.8	33.44	8.1	25.0	2.44
I29	05 Aug 2021	6	13.77	81.21	8.7	33.44	8.1	25.0	2.50
I29	05 Aug 2021	7	13.50	80.25	8.7	33.45	8.1	25.1	2.76
I29	05 Aug 2021	8	13.31	77.20	8.9	33.45	8.1	25.1	3.05
I29	05 Aug 2021	9	13.18	74.12	8.8	33.49	8.1	25.2	4.55
I29	05 Aug 2021	10	12.85	72.43	8.6	33.53	8.1	25.3	4.77
I29	05 Aug 2021	11	12.75	72.76	8.3	33.55	8.1	25.3	5.63
I29	05 Aug 2021	12	12.76	73.30	8.1	33.52	8.1	25.3	6.31
I29	05 Aug 2021	13	12.67	73.90	8.0	33.56	8.1	25.3	8.48
I29	05 Aug 2021	14	12.46	76.48	7.8	33.56	8.0	25.4	8.79
I29	05 Aug 2021	15	12.37	77.60	7.5	33.56	8.0	25.4	9.45
I29	05 Aug 2021	16	12.22	79.89	7.2	33.56	8.0	25.4	10.23
I29	05 Aug 2021	17	12.05	83.12	6.9	33.56	8.0	25.5	9.52
I29	05 Aug 2021	18	12.00	85.45	6.6	33.54	8.0	25.5	9.76
I29	05 Aug 2021	19	12.02	86.15	6.4	33.55	7.9	25.5	8.98
I29	05 Aug 2021	20	12.02	87.36	6.2	33.58	7.9	25.5	8.11
I29	05 Aug 2021	21	12.00	87.78	6.0	33.59	7.9	25.5	6.13
I29	05 Aug 2021	22	12.00	87.85	6.1	33.59	7.9	25.5	4.44
I29	05 Aug 2021	23	11.98	87.75	6.0	33.59	7.9	25.5	3.57
I29	05 Aug 2021	24	11.96	87.47	6.0	33.59	7.9	25.5	3.26
I29	05 Aug 2021	25	11.93	87.32	5.9	33.60	7.9	25.5	2.84
I29	05 Aug 2021	26	11.91	87.02	5.8	33.61	7.9	25.5	2.20
I29	05 Aug 2021	27	11.88	87.40	5.7	33.62	7.9	25.5	2.04
I29	05 Aug 2021	28	11.85	87.31	5.6	33.63	7.9	25.5	2.01
I29	05 Aug 2021	29	11.84	87.25	5.5	33.63	7.9	25.6	1.81
I29	05 Aug 2021	30	11.82	87.04	5.4	33.62	7.9	25.6	1.69
I29	05 Aug 2021	31	11.81	87.02	5.3	33.63	7.9	25.6	1.61
I29	05 Aug 2021	32	11.80	87.03	5.2	33.63	7.9	25.6	1.62
I29	05 Aug 2021	33	11.80	87.01	5.3	33.63	7.9	25.6	1.54
I29	05 Aug 2021	34	11.80	86.92	5.2	33.63	7.9	25.6	1.50
I29	05 Aug 2021	35	11.80	86.78	5.2	33.63	7.9	25.6	1.40
I29	05 Aug 2021	36	11.80	86.70	5.2	33.63	7.9	25.6	1.45
I29	05 Aug 2021	37	11.79	86.68	5.2	33.63	7.9	25.6	1.47
I29	05 Aug 2021	38	11.80	86.64	5.2	33.63	7.9	25.6	1.49

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I3	03 Aug 2021	1	16.66	80.43	8.5	33.50	8.1	24.4	0.50
I3	03 Aug 2021	2	16.63	80.39	8.5	33.52	8.1	24.5	0.51
I3	03 Aug 2021	3	16.56	80.23	8.5	33.52	8.1	24.5	0.52
I3	03 Aug 2021	4	16.33	80.03	8.5	33.55	8.1	24.6	0.54
I3	03 Aug 2021	5	16.20	79.61	8.5	33.53	8.1	24.6	0.56
I3	03 Aug 2021	6	15.25	79.99	8.5	33.64	8.1	24.9	0.61
I3	03 Aug 2021	7	14.75	81.12	8.6	33.56	8.1	24.9	0.69
I3	03 Aug 2021	8	14.01	82.03	8.6	33.60	8.1	25.1	0.79
I3	03 Aug 2021	9	13.49	81.07	8.5	33.55	8.1	25.2	0.92
I3	03 Aug 2021	10	13.32	79.76	8.5	33.51	8.1	25.2	1.21
I3	03 Aug 2021	11	13.24	78.45	8.4	33.51	8.1	25.2	2.01
I3	03 Aug 2021	12	13.15	78.57	8.2	33.49	8.1	25.2	2.30
I3	03 Aug 2021	13	13.08	79.42	8.2	33.50	8.1	25.2	2.89
I3	03 Aug 2021	14	12.88	81.06	7.9	33.51	8.1	25.3	3.76
I3	03 Aug 2021	15	12.77	82.10	7.7	33.50	8.0	25.3	4.41
I3	03 Aug 2021	16	12.55	83.19	7.5	33.52	8.0	25.3	4.70
I3	03 Aug 2021	17	12.35	84.29	7.2	33.52	8.0	25.4	4.56
I3	03 Aug 2021	18	12.17	85.48	6.9	33.55	8.0	25.4	4.55
I3	03 Aug 2021	19	12.11	84.37	6.6	33.57	8.0	25.5	4.26
I3	03 Aug 2021	20	12.10	86.04	6.4	33.57	8.0	25.5	3.68
I3	03 Aug 2021	21	12.04	87.13	6.3	33.59	8.0	25.5	2.88
I3	03 Aug 2021	22	11.98	86.40	6.1	33.61	7.9	25.5	3.13
I3	03 Aug 2021	23	11.97	86.14	5.9	33.61	7.9	25.5	2.42
I3	03 Aug 2021	24	11.96	85.80	5.8	33.61	7.9	25.5	2.28
I3	03 Aug 2021	25	11.97	85.68	5.8	33.61	7.9	25.5	2.15
I3	03 Aug 2021	26	11.96	85.49	5.8	33.61	7.9	25.5	1.79
I3	03 Aug 2021	27	11.96	84.93	5.8	33.61	7.9	25.5	1.93
I30	05 Aug 2021	1	15.88	79.10	9.0	33.47	8.1	24.6	1.48
I30	05 Aug 2021	2	15.54	78.94	9.1	33.50	8.1	24.7	1.62
I30	05 Aug 2021	3	15.16	78.61	9.2	33.46	8.2	24.8	1.85
I30	05 Aug 2021	4	14.88	78.05	9.3	33.48	8.2	24.8	2.05
I30	05 Aug 2021	5	14.53	77.24	9.4	33.46	8.2	24.9	2.44
I30	05 Aug 2021	6	14.24	76.21	9.3	33.48	8.2	25.0	2.93
I30	05 Aug 2021	7	13.75	73.99	9.1	33.51	8.1	25.1	3.46
I30	05 Aug 2021	8	13.60	71.81	8.8	33.49	8.1	25.1	5.16
I30	05 Aug 2021	9	12.94	69.03	8.5	33.56	8.1	25.3	6.17
I30	05 Aug 2021	10	12.72	67.95	8.5	33.50	8.1	25.3	8.11
I30	05 Aug 2021	11	12.74	67.89	8.4	33.51	8.1	25.3	11.49
I30	05 Aug 2021	12	12.56	68.30	8.1	33.53	8.1	25.3	12.99
I30	05 Aug 2021	13	12.48	72.98	7.8	33.53	8.0	25.4	13.75
I30	05 Aug 2021	14	12.48	75.59	7.5	33.53	8.0	25.4	14.22
I30	05 Aug 2021	15	12.36	78.01	7.3	33.53	8.0	25.4	14.11
I30	05 Aug 2021	16	12.31	79.83	7.1	33.52	8.0	25.4	13.01
I30	05 Aug 2021	17	12.22	81.82	7.0	33.54	8.0	25.4	11.62
I30	05 Aug 2021	18	12.01	83.37	6.7	33.54	8.0	25.5	9.51
I30	05 Aug 2021	19	12.01	85.04	6.5	33.55	8.0	25.5	8.57
I30	05 Aug 2021	20	12.03	84.77	6.3	33.56	7.9	25.5	6.99
I30	05 Aug 2021	21	12.05	84.03	6.2	33.56	7.9	25.5	5.60
I30	05 Aug 2021	22	12.01	83.30	6.0	33.60	7.9	25.5	4.87
I30	05 Aug 2021	23	11.97	82.99	5.7	33.62	7.9	25.5	4.23
I30	05 Aug 2021	24	11.95	83.22	5.5	33.62	7.9	25.5	3.84
I30	05 Aug 2021	25	11.95	83.20	5.4	33.62	7.9	25.5	3.48
I30	05 Aug 2021	26	11.93	83.25	5.4	33.62	7.9	25.5	3.00
I30	05 Aug 2021	27	11.91	82.94	5.3	33.62	7.9	25.5	2.63
I30	05 Aug 2021	28	11.90	81.94	5.3	33.62	7.9	25.5	2.45
I31	05 Aug 2021	1	16.59	75.16	8.7	33.55	8.1	24.5	2.00
I31	05 Aug 2021	2	16.37	74.41	8.7	33.56	8.1	24.6	2.05
I31	05 Aug 2021	3	16.15	73.79	8.7	33.54	8.1	24.6	2.44
I31	05 Aug 2021	4	15.44	72.51	8.6	33.71	8.1	24.9	2.87

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma-t$ )	Chlor ( $\mu\text{g/L}$ )
I31	05 Aug 2021	5	14.22	70.54	8.8	33.63	8.1	25.1	3.63
I31	05 Aug 2021	6	14.19	66.66	8.7	33.58	8.1	25.0	5.67
I31	05 Aug 2021	7	13.70	65.23	8.9	33.55	8.1	25.1	7.59
I31	05 Aug 2021	8	13.41	66.68	9.0	33.54	8.1	25.2	9.25
I31	05 Aug 2021	9	12.94	67.48	9.0	33.55	8.1	25.3	10.53
I31	05 Aug 2021	10	12.89	69.87	8.9	33.49	8.1	25.2	10.72
I31	05 Aug 2021	11	12.88	70.08	8.7	33.53	8.1	25.3	10.96
I31	05 Aug 2021	12	12.72	71.47	8.2	33.52	8.1	25.3	11.28
I31	05 Aug 2021	13	12.57	72.14	7.7	33.54	8.0	25.3	10.80
I31	05 Aug 2021	14	12.35	74.41	7.2	33.55	8.0	25.4	10.28
I31	05 Aug 2021	15	12.19	78.09	6.7	33.53	8.0	25.4	9.42
I31	05 Aug 2021	16	12.30	78.25	6.6	33.53	8.0	25.4	7.87
I31	05 Aug 2021	17	12.04	83.83	6.3	33.58	8.0	25.5	7.44
I31	05 Aug 2021	18	11.98	84.26	6.0	33.59	7.9	25.5	6.26
I31	05 Aug 2021	19	11.97	81.05	5.7	33.60	7.9	25.5	4.62
I33	05 Aug 2021	1	16.09	75.78	8.6	33.53	8.1	24.6	2.28
I33	05 Aug 2021	2	16.02	76.38	8.5	33.55	8.1	24.6	2.37
I33	05 Aug 2021	3	15.74	75.05	8.4	33.56	8.1	24.7	2.57
I33	05 Aug 2021	4	15.68	73.87	8.3	33.56	8.1	24.7	3.27
I33	05 Aug 2021	5	15.50	73.19	8.2	33.59	8.1	24.8	4.04
I33	05 Aug 2021	6	15.17	70.93	8.0	33.61	8.1	24.9	4.90
I33	05 Aug 2021	7	15.20	65.81	7.7	33.62	8.0	24.9	5.99
I33	05 Aug 2021	8	15.15	61.73	7.5	33.65	8.0	24.9	7.84
I33	05 Aug 2021	9	14.25	58.79	7.3	33.73	8.0	25.1	10.09
I33	05 Aug 2021	10	13.36	59.35	6.9	33.68	8.0	25.3	12.21
I33	05 Aug 2021	11	13.45	65.19	6.8	33.60	8.0	25.2	12.82
I33	05 Aug 2021	12	13.08	69.19	6.9	33.62	8.0	25.3	12.02
I33	05 Aug 2021	13	12.76	71.96	6.8	33.62	8.0	25.4	11.54
I33	05 Aug 2021	14	12.57	73.57	6.4	33.62	7.9	25.4	9.64
I33	05 Aug 2021	15	12.42	76.69	6.3	33.62	7.9	25.4	7.83
I33	05 Aug 2021	16	12.14	81.01	6.1	33.63	7.9	25.5	6.61
I33	05 Aug 2021	17	12.00	83.57	6.0	33.60	7.9	25.5	6.16
I33	05 Aug 2021	18	11.98	84.37	6.0	33.60	7.9	25.5	4.96
I33	05 Aug 2021	19	11.97	85.29	5.9	33.60	7.9	25.5	3.56
I33	05 Aug 2021	20	11.95	85.56	5.9	33.61	7.9	25.5	2.91
I33	05 Aug 2021	21	11.90	85.86	5.8	33.61	7.9	25.5	2.73
I33	05 Aug 2021	22	11.84	86.40	5.7	33.62	7.9	25.5	2.55
I33	05 Aug 2021	23	11.81	85.89	5.5	33.62	7.9	25.6	2.27
I33	05 Aug 2021	24	11.80	84.66	5.3	33.63	7.9	25.6	1.97
I33	05 Aug 2021	25	11.84	83.39	5.4	33.62	7.9	25.6	1.71
I33	05 Aug 2021	26	11.79	82.54	5.3	33.63	7.8	25.6	1.85
I33	05 Aug 2021	27	11.79	80.92	5.1	33.63	7.8	25.6	1.82
I33	05 Aug 2021	28	11.79	81.07	5.1	33.63	7.8	25.6	1.86
I33	05 Aug 2021	29	11.79	80.57	5.1	33.63	7.8	25.6	1.97
I33	05 Aug 2021	30	11.79	79.76	5.1	33.63	7.8	25.6	2.06
I34	05 Aug 2021	1	15.54	69.32	8.4	33.59	8.1	24.8	5.07
I34	05 Aug 2021	2	15.20	68.02	8.4	33.65	8.1	24.9	5.27
I34	05 Aug 2021	3	14.89	65.68	8.6	33.60	8.1	24.9	5.62
I34	05 Aug 2021	4	14.34	65.88	8.5	33.64	8.1	25.1	6.87
I34	05 Aug 2021	5	13.79	67.10	8.3	33.64	8.1	25.2	7.72
I34	05 Aug 2021	6	13.36	67.50	8.2	33.65	8.0	25.3	8.01
I34	05 Aug 2021	7	13.01	66.81	7.9	33.62	8.0	25.3	8.88
I34	05 Aug 2021	8	12.46	67.95	7.4	33.66	8.0	25.5	9.57
I34	05 Aug 2021	9	12.21	73.45	6.7	33.62	7.9	25.5	10.60
I34	05 Aug 2021	10	12.27	78.54	6.5	33.60	7.9	25.5	9.57
I34	05 Aug 2021	11	12.06	81.19	6.4	33.62	7.9	25.5	8.25
I34	05 Aug 2021	12	12.03	82.49	6.2	33.60	7.9	25.5	7.31
I34	05 Aug 2021	13	12.02	83.42	6.1	33.61	7.9	25.5	6.22
I34	05 Aug 2021	14	11.97	83.20	5.9	33.62	7.9	25.5	4.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I34	05 Aug 2021	15	11.96	82.88	5.8	33.62	7.9	25.5	4.12
I34	05 Aug 2021	16	11.89	81.16	5.5	33.63	7.8	25.5	3.67
I34	05 Aug 2021	17	11.88	79.33	5.2	33.63	7.8	25.5	3.28
I34	05 Aug 2021	18	11.87	78.65	5.1	33.63	7.8	25.5	3.21
I34	05 Aug 2021	19	11.87	77.56	5.0	33.63	7.8	25.5	2.82
I35	05 Aug 2021	1	16.32	75.07	8.9	33.59	8.1	24.6	0.96
I35	05 Aug 2021	2	16.13	74.01	8.9	33.56	8.1	24.6	1.01
I35	05 Aug 2021	3	15.76	72.92	8.8	33.61	8.1	24.7	1.19
I35	05 Aug 2021	4	14.55	72.30	8.9	33.66	8.1	25.0	1.45
I35	05 Aug 2021	5	14.29	69.98	8.9	33.67	8.1	25.1	1.97
I35	05 Aug 2021	6	13.62	67.37	9.0	33.61	8.1	25.2	2.65
I35	05 Aug 2021	7	13.40	67.21	8.8	33.64	8.1	25.3	4.08
I35	05 Aug 2021	8	12.83	67.75	8.4	33.66	8.1	25.4	6.44
I35	05 Aug 2021	9	12.52	67.67	7.7	33.62	8.0	25.4	8.43
I35	05 Aug 2021	10	12.35	70.52	7.1	33.60	8.0	25.4	9.71
I35	05 Aug 2021	11	12.32	75.65	6.8	33.60	8.0	25.4	10.34
I35	05 Aug 2021	12	12.30	77.91	6.6	33.59	8.0	25.4	9.53
I35	05 Aug 2021	13	12.28	78.65	6.6	33.60	8.0	25.4	8.75
I35	05 Aug 2021	14	12.25	78.90	6.5	33.61	8.0	25.5	7.88
I35	05 Aug 2021	15	12.05	78.21	6.0	33.64	7.9	25.5	7.16
I35	05 Aug 2021	16	12.02	77.58	5.3	33.63	7.9	25.5	6.67
I35	05 Aug 2021	17	12.01	76.38	5.1	33.62	7.9	25.5	6.11
I35	05 Aug 2021	18	12.01	74.57	5.0	33.62	7.8	25.5	5.57
I35	05 Aug 2021	19	12.01	70.90	5.0	33.63	7.8	25.5	4.94
I36	05 Aug 2021	1	16.53	69.36	9.3	33.54	8.2	24.5	1.57
I36	05 Aug 2021	2	15.85	68.61	9.7	33.61	8.2	24.7	1.60
I36	05 Aug 2021	3	15.47	66.24	10.3	33.59	8.2	24.8	1.90
I36	05 Aug 2021	4	13.93	64.94	10.3	33.77	8.2	25.2	2.35
I36	05 Aug 2021	5	13.31	64.34	9.7	33.62	8.2	25.3	3.29
I36	05 Aug 2021	6	13.22	65.50	9.0	33.59	8.1	25.3	5.33
I36	05 Aug 2021	7	13.06	67.06	8.7	33.59	8.1	25.3	6.90
I36	05 Aug 2021	8	12.97	64.81	8.4	33.59	8.1	25.3	8.65
I36	05 Aug 2021	9	12.74	61.67	7.8	33.61	8.1	25.4	10.81
I36	05 Aug 2021	10	12.59	54.10	6.6	33.60	7.9	25.4	12.24
I36	05 Aug 2021	11	12.54	50.21	5.5	33.60	7.9	25.4	13.36
I37	05 Aug 2021	1	15.69	73.44	8.9	33.57	8.1	24.7	2.11
I37	05 Aug 2021	2	15.52	73.01	9.0	33.57	8.1	24.8	2.18
I37	05 Aug 2021	3	15.48	72.33	9.0	33.56	8.1	24.8	2.50
I37	05 Aug 2021	4	15.29	71.43	9.0	33.59	8.1	24.8	3.06
I37	05 Aug 2021	5	14.46	68.41	9.0	33.72	8.1	25.1	3.60
I37	05 Aug 2021	6	12.84	59.04	8.6	33.76	8.1	25.5	4.94
I37	05 Aug 2021	7	12.44	64.44	7.4	33.64	8.0	25.5	9.27
I37	05 Aug 2021	8	12.35	68.33	6.6	33.61	7.9	25.4	13.56
I37	05 Aug 2021	9	12.19	67.63	6.1	33.63	7.9	25.5	14.33
I37	05 Aug 2021	10	12.05	63.98	5.5	33.61	7.8	25.5	14.58
I37	05 Aug 2021	11	12.04	64.03	5.0	33.61	7.8	25.5	13.51
I37	05 Aug 2021	12	12.06	64.15	5.0	33.61	7.8	25.5	13.35
I38	05 Aug 2021	1	16.27	65.09	9.2	33.55	8.1	24.6	1.86
I38	05 Aug 2021	2	15.49	64.59	9.5	33.66	8.2	24.8	1.84
I38	05 Aug 2021	3	14.25	62.92	10.1	33.72	8.2	25.1	1.92
I38	05 Aug 2021	4	13.56	63.09	10.6	33.66	8.2	25.2	2.41
I38	05 Aug 2021	5	13.13	63.50	10.4	33.66	8.2	25.3	3.35
I38	05 Aug 2021	6	12.77	64.35	9.7	33.63	8.2	25.4	4.32
I38	05 Aug 2021	7	12.55	63.39	8.5	33.63	8.1	25.4	5.40
I38	05 Aug 2021	8	12.44	60.40	6.5	33.60	7.9	25.4	6.91
I38	05 Aug 2021	9	12.43	58.24	5.2	33.59	7.8	25.4	8.83
I38	05 Aug 2021	10	12.42	57.79	4.9	33.59	7.8	25.4	10.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	05 Aug 2021	11	12.39	56.60	4.9	33.59	7.8	25.4	11.28
I4	03 Aug 2021	1	15.37	74.32	8.8	33.46	8.1	24.7	1.20
I4	03 Aug 2021	2	15.31	70.73	8.7	33.52	8.1	24.8	1.21
I4	03 Aug 2021	3	15.15	74.34	8.6	33.54	8.1	24.8	1.23
I4	03 Aug 2021	4	14.59	74.00	8.5	33.55	8.1	24.9	1.40
I4	03 Aug 2021	5	14.00	75.34	8.5	33.52	8.1	25.0	1.71
I4	03 Aug 2021	6	13.76	79.37	8.5	33.49	8.1	25.1	1.78
I4	03 Aug 2021	7	13.37	79.31	8.3	33.50	8.1	25.2	1.73
I4	03 Aug 2021	8	13.12	77.10	8.3	33.51	8.1	25.2	1.97
I4	03 Aug 2021	9	12.99	72.32	8.2	33.51	8.1	25.2	2.83
I4	03 Aug 2021	10	12.72	67.84	7.9	33.55	8.1	25.3	4.17
I4	03 Aug 2021	11	12.60	67.94	7.4	33.56	8.0	25.4	6.23
I4	03 Aug 2021	12	12.34	68.66	6.8	33.59	8.0	25.4	7.90
I4	03 Aug 2021	13	12.20	74.49	6.2	33.59	8.0	25.5	8.81
I4	03 Aug 2021	14	12.17	77.89	6.0	33.60	7.9	25.5	8.52
I4	03 Aug 2021	15	11.98	81.30	5.6	33.62	7.9	25.5	8.05
I4	03 Aug 2021	16	11.85	84.08	5.4	33.62	7.9	25.5	6.54
I4	03 Aug 2021	17	11.85	84.31	5.3	33.62	7.9	25.5	4.64
I4	03 Aug 2021	18	11.85	83.98	5.3	33.62	7.9	25.5	3.22
I5	03 Aug 2021	1	14.03	63.42	8.2	33.55	8.1	25.1	2.16
I5	03 Aug 2021	2	13.94	64.21	8.3	33.55	8.1	25.1	2.26
I5	03 Aug 2021	3	13.73	64.53	8.3	33.56	8.1	25.1	2.44
I5	03 Aug 2021	4	13.14	65.36	8.4	33.55	8.1	25.2	2.90
I5	03 Aug 2021	5	12.91	64.99	7.9	33.59	8.1	25.3	3.54
I5	03 Aug 2021	6	12.48	61.25	7.1	33.60	8.0	25.4	4.73
I5	03 Aug 2021	7	12.32	63.52	6.3	33.59	8.0	25.4	7.43
I5	03 Aug 2021	8	12.21	72.19	5.8	33.61	7.9	25.5	9.75
I5	03 Aug 2021	9	12.00	76.35	5.4	33.62	7.9	25.5	9.73
I5	03 Aug 2021	10	11.91	78.40	5.2	33.62	7.9	25.5	8.49
I5	03 Aug 2021	11	11.88	80.94	5.2	33.62	7.9	25.5	6.57
I5	03 Aug 2021	12	11.88	80.86	5.2	33.62	7.9	25.5	4.54
I5	03 Aug 2021	13	11.86	80.20	5.2	33.62	7.9	25.5	3.70
I5	03 Aug 2021	14	11.86	76.21	5.1	33.62	7.9	25.5	3.06
I6	03 Aug 2021	1	17.31	80.53	8.5	33.52	8.2	24.3	0.46
I6	03 Aug 2021	2	17.07	80.73	8.5	33.53	8.2	24.4	0.46
I6	03 Aug 2021	3	16.63	80.53	8.5	33.54	8.2	24.5	0.50
I6	03 Aug 2021	4	16.29	79.88	8.6	33.52	8.2	24.5	0.60
I6	03 Aug 2021	5	15.87	79.00	8.3	33.55	8.2	24.7	0.70
I6	03 Aug 2021	6	14.08	77.89	8.3	33.56	8.1	25.1	0.88
I6	03 Aug 2021	7	13.90	80.11	7.9	33.45	8.1	25.0	1.38
I6	03 Aug 2021	8	13.08	81.24	7.5	33.43	8.1	25.2	1.60
I6	03 Aug 2021	9	13.03	80.70	7.5	33.44	8.1	25.2	1.85
I6	03 Aug 2021	10	13.02	79.41	7.7	33.45	8.1	25.2	2.31
I6	03 Aug 2021	11	12.82	78.10	7.7	33.47	8.1	25.2	2.73
I6	03 Aug 2021	12	12.65	79.49	7.5	33.46	8.0	25.3	3.52
I6	03 Aug 2021	13	12.50	81.37	7.2	33.46	8.0	25.3	3.99
I6	03 Aug 2021	14	12.36	82.68	6.8	33.46	8.0	25.3	3.89
I6	03 Aug 2021	15	12.33	82.99	6.7	33.47	8.0	25.3	3.76
I6	03 Aug 2021	16	12.28	83.54	6.6	33.49	8.0	25.4	3.82
I6	03 Aug 2021	17	12.25	83.45	6.6	33.51	8.0	25.4	3.63
I6	03 Aug 2021	18	12.26	83.30	6.7	33.53	8.0	25.4	3.46
I6	03 Aug 2021	19	12.18	84.11	6.6	33.54	8.0	25.4	3.55
I6	03 Aug 2021	20	12.05	85.01	6.3	33.56	8.0	25.5	3.52
I6	03 Aug 2021	21	11.98	85.90	6.0	33.58	8.0	25.5	3.12
I6	03 Aug 2021	22	11.84	85.62	5.6	33.63	7.9	25.6	2.83
I6	03 Aug 2021	23	11.83	85.55	5.3	33.63	7.9	25.6	2.48
I6	03 Aug 2021	24	11.82	85.39	5.3	33.63	7.9	25.6	2.07
I6	03 Aug 2021	25	11.83	85.12	5.3	33.63	7.9	25.6	1.88

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I6	03 Aug 2021	26	11.83	84.94	5.3	33.63	7.9	25.6	1.70
I7	03 Aug 2021	1	16.29	81.64	8.7	33.47	8.1	24.5	0.92
I7	03 Aug 2021	2	16.27	81.75	8.7	33.47	8.1	24.5	0.88
I7	03 Aug 2021	3	16.24	81.52	8.7	33.47	8.1	24.5	0.86
I7	03 Aug 2021	4	16.24	81.61	8.7	33.47	8.1	24.5	1.01
I7	03 Aug 2021	5	16.07	81.76	8.6	33.49	8.1	24.6	1.07
I7	03 Aug 2021	6	15.49	83.43	8.6	33.49	8.1	24.7	1.12
I7	03 Aug 2021	7	15.18	84.54	8.7	33.46	8.1	24.7	1.12
I7	03 Aug 2021	8	15.15	84.73	8.7	33.45	8.1	24.7	1.17
I7	03 Aug 2021	9	14.93	84.87	8.6	33.47	8.1	24.8	1.24
I7	03 Aug 2021	10	14.34	84.82	8.6	33.47	8.1	24.9	1.26
I7	03 Aug 2021	11	13.83	83.01	8.6	33.43	8.1	25.0	1.44
I7	03 Aug 2021	12	13.57	80.79	8.7	33.39	8.1	25.0	1.80
I7	03 Aug 2021	13	13.42	78.99	8.7	33.41	8.1	25.1	2.51
I7	03 Aug 2021	14	13.33	77.34	8.8	33.42	8.1	25.1	3.15
I7	03 Aug 2021	15	13.30	76.49	8.9	33.43	8.1	25.1	4.29
I7	03 Aug 2021	16	13.18	76.07	8.7	33.46	8.1	25.2	4.77
I7	03 Aug 2021	17	13.00	75.44	8.5	33.52	8.1	25.2	5.01
I7	03 Aug 2021	18	12.97	75.83	8.1	33.51	8.0	25.2	5.30
I7	03 Aug 2021	19	12.67	78.18	7.6	33.55	8.0	25.3	5.46
I7	03 Aug 2021	20	12.36	83.21	7.1	33.53	8.0	25.4	5.49
I7	03 Aug 2021	21	12.22	85.79	6.7	33.53	7.9	25.4	5.06
I7	03 Aug 2021	22	12.14	86.12	6.5	33.52	7.9	25.4	4.29
I7	03 Aug 2021	23	12.09	86.54	6.4	33.52	7.9	25.4	3.65
I7	03 Aug 2021	24	12.08	86.92	6.4	33.52	7.9	25.4	2.91
I7	03 Aug 2021	25	12.04	87.07	6.4	33.53	7.9	25.4	2.47
I7	03 Aug 2021	26	12.01	87.33	6.3	33.53	7.9	25.4	2.25
I7	03 Aug 2021	27	12.01	87.42	6.3	33.54	7.9	25.5	1.95
I7	03 Aug 2021	28	12.01	87.36	6.3	33.54	7.9	25.5	1.95
I7	03 Aug 2021	29	11.98	87.62	6.2	33.55	7.9	25.5	1.77
I7	03 Aug 2021	30	11.93	87.98	6.1	33.58	7.9	25.5	1.77
I7	03 Aug 2021	31	11.93	88.04	6.0	33.58	7.9	25.5	1.59
I7	03 Aug 2021	32	11.89	88.12	5.9	33.61	7.9	25.5	1.57
I7	03 Aug 2021	33	11.78	88.43	5.7	33.63	7.9	25.6	1.44
I7	03 Aug 2021	34	11.70	88.42	5.6	33.64	7.9	25.6	1.30
I7	03 Aug 2021	35	11.66	88.30	5.5	33.65	7.9	25.6	1.11
I7	03 Aug 2021	36	11.63	88.39	5.4	33.65	7.8	25.6	1.02
I7	03 Aug 2021	37	11.62	88.21	5.3	33.65	7.8	25.6	0.95
I7	03 Aug 2021	38	11.61	88.12	5.3	33.65	7.8	25.6	0.97
I7	03 Aug 2021	39	11.58	87.99	5.2	33.66	7.8	25.6	1.00
I7	03 Aug 2021	40	11.55	87.92	5.2	33.66	7.8	25.6	0.97
I7	03 Aug 2021	41	11.54	88.01	5.2	33.66	7.8	25.6	0.99
I7	03 Aug 2021	42	11.53	87.88	5.1	33.66	7.8	25.6	1.06
I7	03 Aug 2021	43	11.52	87.92	5.1	33.66	7.8	25.6	0.92
I7	03 Aug 2021	44	11.52	87.88	5.1	33.66	7.8	25.6	0.99
I7	03 Aug 2021	45	11.50	87.77	5.1	33.67	7.8	25.6	0.88
I7	03 Aug 2021	46	11.46	87.75	5.0	33.68	7.8	25.7	0.94
I7	03 Aug 2021	47	11.38	87.95	5.0	33.69	7.8	25.7	0.99
I7	03 Aug 2021	48	11.36	88.16	4.9	33.69	7.8	25.7	0.91
I7	03 Aug 2021	49	11.23	88.40	4.8	33.72	7.8	25.7	0.85
I7	03 Aug 2021	50	11.16	88.48	4.7	33.74	7.8	25.8	0.81
I7	03 Aug 2021	51	11.12	88.39	4.6	33.76	7.8	25.8	0.68
I7	03 Aug 2021	52	11.12	88.10	4.5	33.76	7.8	25.8	0.61
I8	03 Aug 2021	1	16.97	81.01	8.6	33.51	8.1	24.4	0.47
I8	03 Aug 2021	2	16.51	81.17	8.6	33.52	8.2	24.5	0.48
I8	03 Aug 2021	3	15.07	80.44	8.7	33.58	8.2	24.9	0.50
I8	03 Aug 2021	4	14.30	79.57	8.9	33.49	8.1	25.0	0.61
I8	03 Aug 2021	5	14.22	79.47	8.7	33.48	8.1	25.0	0.76
I8	03 Aug 2021	6	14.12	79.01	8.7	33.48	8.1	25.0	0.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma\text{-t}$ )	Chlor ( $\mu\text{g/L}$ )
I8	03 Aug 2021	7	14.09	79.29	8.6	33.48	8.1	25.0	1.15
I8	03 Aug 2021	8	13.88	80.27	8.5	33.49	8.1	25.0	1.29
I8	03 Aug 2021	9	13.84	81.68	8.4	33.48	8.1	25.1	1.27
I8	03 Aug 2021	10	13.33	81.76	8.3	33.51	8.1	25.2	1.31
I8	03 Aug 2021	11	13.03	78.80	8.2	33.47	8.1	25.2	1.68
I8	03 Aug 2021	12	12.94	79.26	8.1	33.45	8.1	25.2	2.62
I8	03 Aug 2021	13	12.94	79.86	8.0	33.45	8.1	25.2	3.34
I8	03 Aug 2021	14	12.86	80.39	7.9	33.46	8.1	25.2	4.03
I8	03 Aug 2021	15	12.78	81.17	7.7	33.47	8.1	25.2	4.24
I8	03 Aug 2021	16	12.70	82.62	7.5	33.47	8.1	25.3	4.46
I8	03 Aug 2021	17	12.62	83.08	7.4	33.47	8.0	25.3	4.39
I8	03 Aug 2021	18	12.52	83.19	7.3	33.47	8.0	25.3	4.27
I8	03 Aug 2021	19	12.42	83.15	7.2	33.48	8.0	25.3	4.63
I8	03 Aug 2021	20	12.34	83.24	7.1	33.48	8.0	25.3	4.18
I8	03 Aug 2021	21	12.22	83.76	7.0	33.48	8.0	25.4	4.36
I8	03 Aug 2021	22	12.20	84.53	6.9	33.48	8.0	25.4	4.29
I8	03 Aug 2021	23	12.07	85.76	6.6	33.53	8.0	25.4	3.97
I8	03 Aug 2021	24	12.03	86.59	6.3	33.56	8.0	25.5	3.14
I8	03 Aug 2021	25	12.00	87.39	6.2	33.57	8.0	25.5	2.55
I8	03 Aug 2021	26	11.96	87.66	6.1	33.58	8.0	25.5	2.06
I8	03 Aug 2021	27	11.95	87.80	6.0	33.58	7.9	25.5	1.84
I8	03 Aug 2021	28	11.94	87.91	6.0	33.58	7.9	25.5	1.67
I8	03 Aug 2021	29	11.93	87.92	6.0	33.58	7.9	25.5	1.63
I8	03 Aug 2021	30	11.92	87.98	6.0	33.59	7.9	25.5	1.78
I8	03 Aug 2021	31	11.91	87.88	5.9	33.59	7.9	25.5	1.67
I8	03 Aug 2021	32	11.84	87.34	5.7	33.62	7.9	25.5	1.78
I8	03 Aug 2021	33	11.83	86.87	5.5	33.62	7.9	25.5	1.68
I8	03 Aug 2021	34	11.77	86.82	5.3	33.63	7.9	25.6	1.70
I8	03 Aug 2021	35	11.76	86.75	5.2	33.63	7.9	25.6	1.58
I8	03 Aug 2021	36	11.76	86.64	5.2	33.63	7.9	25.6	1.57
I9	03 Aug 2021	1	18.21	81.45	8.5	33.38	8.2	24.0	0.42
I9	03 Aug 2021	2	18.14	81.34	8.5	33.52	8.2	24.1	0.44
I9	03 Aug 2021	3	17.35	81.85	8.6	33.55	8.2	24.3	0.45
I9	03 Aug 2021	4	16.93	81.47	8.6	33.55	8.2	24.4	0.48
I9	03 Aug 2021	5	16.30	81.09	8.6	33.54	8.2	24.6	0.54
I9	03 Aug 2021	6	15.34	80.53	8.3	33.57	8.2	24.8	0.59
I9	03 Aug 2021	7	13.86	79.33	8.3	33.56	8.1	25.1	0.75
I9	03 Aug 2021	8	13.39	79.32	8.1	33.51	8.1	25.2	1.11
I9	03 Aug 2021	9	13.10	79.29	7.9	33.49	8.1	25.2	1.47
I9	03 Aug 2021	10	12.83	80.34	7.5	33.46	8.1	25.2	1.90
I9	03 Aug 2021	11	12.60	81.81	7.1	33.43	8.0	25.3	1.97
I9	03 Aug 2021	12	12.37	82.99	6.6	33.40	8.0	25.3	2.12
I9	03 Aug 2021	13	12.28	84.16	6.4	33.39	8.0	25.3	2.22
I9	03 Aug 2021	14	12.34	83.85	6.5	33.41	8.0	25.3	1.99
I9	03 Aug 2021	15	12.28	83.52	6.6	33.44	8.0	25.3	2.02
I9	03 Aug 2021	16	12.27	84.24	6.6	33.44	8.0	25.3	2.46
I9	03 Aug 2021	17	12.15	85.08	6.4	33.45	8.0	25.4	2.51
I9	03 Aug 2021	18	12.13	85.27	6.3	33.47	8.0	25.4	2.34
I9	03 Aug 2021	19	12.15	85.16	6.4	33.50	8.0	25.4	2.59
I9	03 Aug 2021	20	12.13	85.38	6.5	33.51	8.0	25.4	2.57
I9	03 Aug 2021	21	12.11	85.16	6.5	33.52	8.0	25.4	2.70
I9	03 Aug 2021	22	12.08	85.68	6.4	33.53	8.0	25.4	2.71
I9	03 Aug 2021	23	12.02	85.70	6.3	33.57	8.0	25.5	2.75
I9	03 Aug 2021	24	11.99	85.63	6.1	33.58	8.0	25.5	2.71
I9	03 Aug 2021	25	11.89	86.01	5.8	33.61	7.9	25.5	2.72
I9	03 Aug 2021	26	11.79	86.18	5.5	33.64	7.9	25.6	2.62
I9	03 Aug 2021	27	11.78	85.83	5.2	33.64	7.9	25.6	2.28
I9	03 Aug 2021	28	11.78	85.47	5.2	33.63	7.9	25.6	1.88
I9	03 Aug 2021	29	11.77	85.14	5.2	33.64	7.9	25.6	1.73

NA = not available

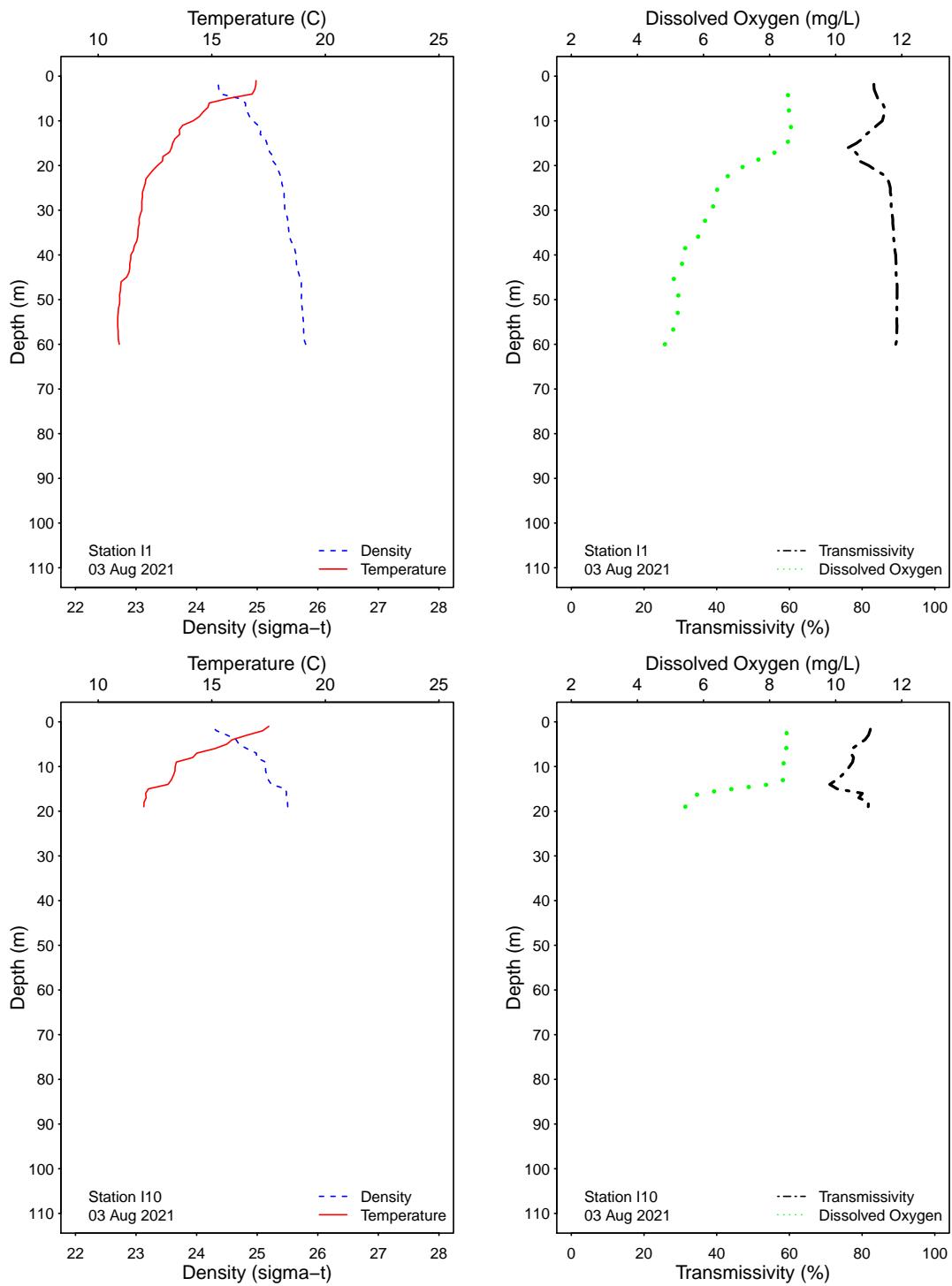


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

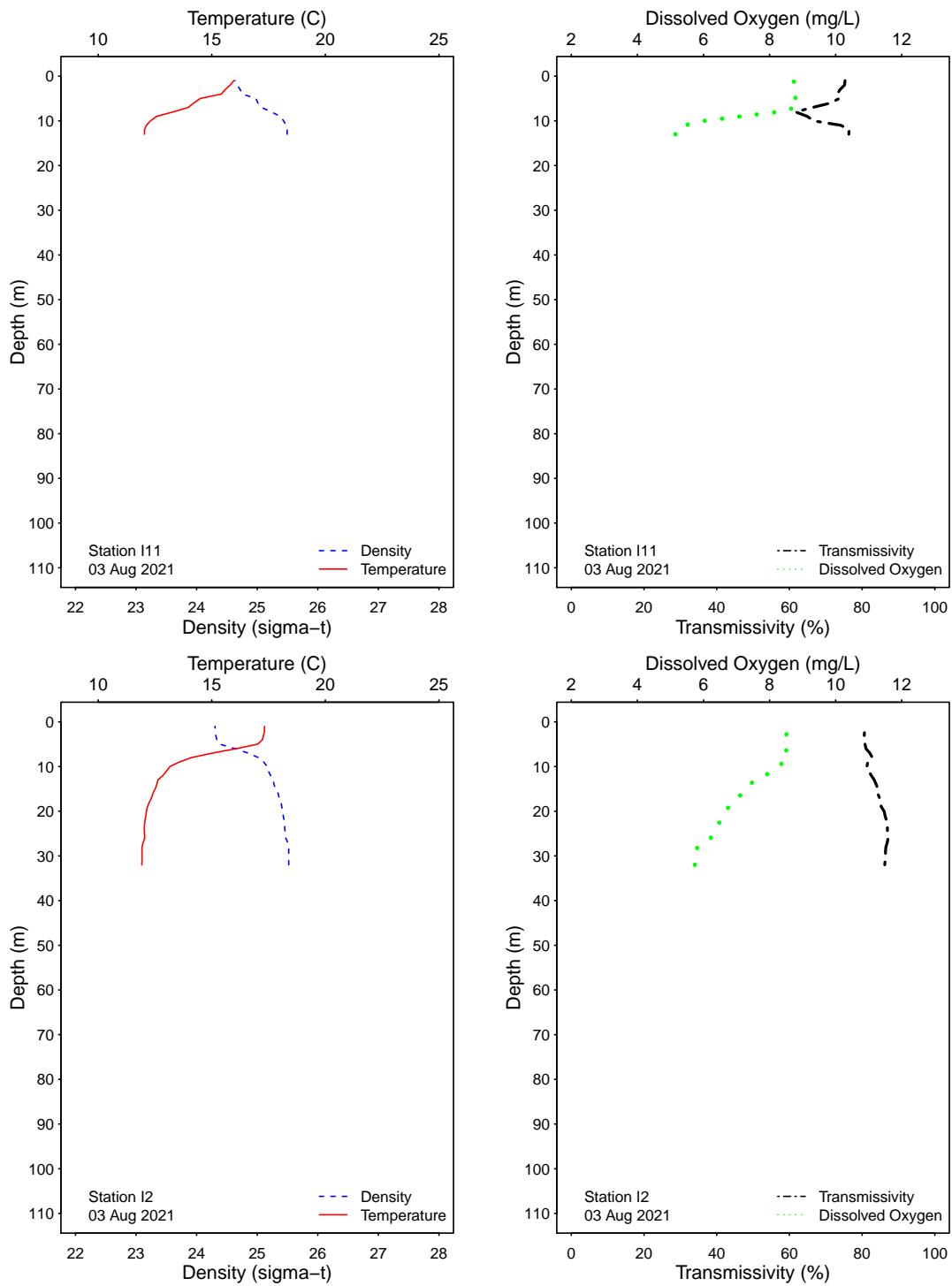


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

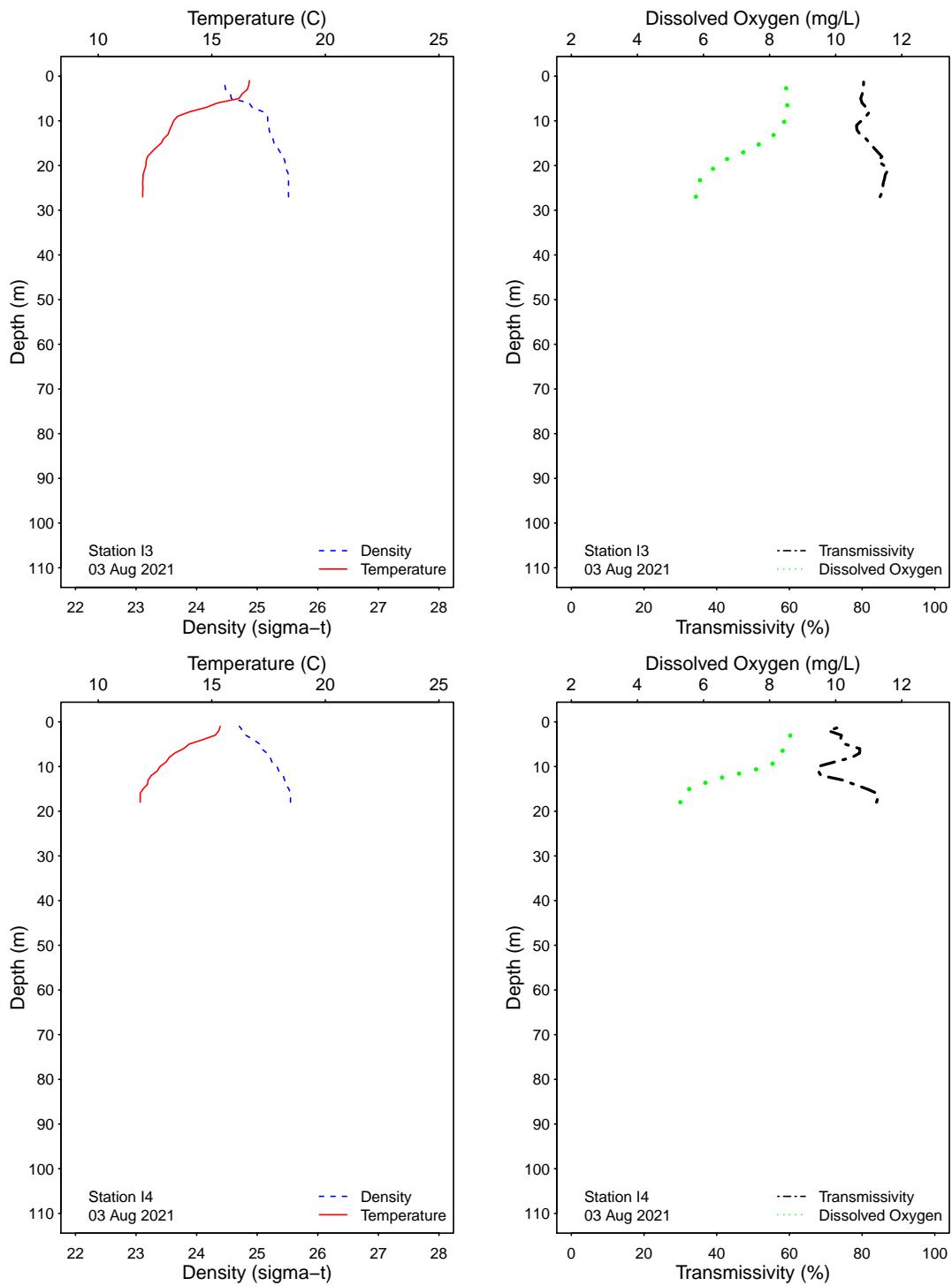


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

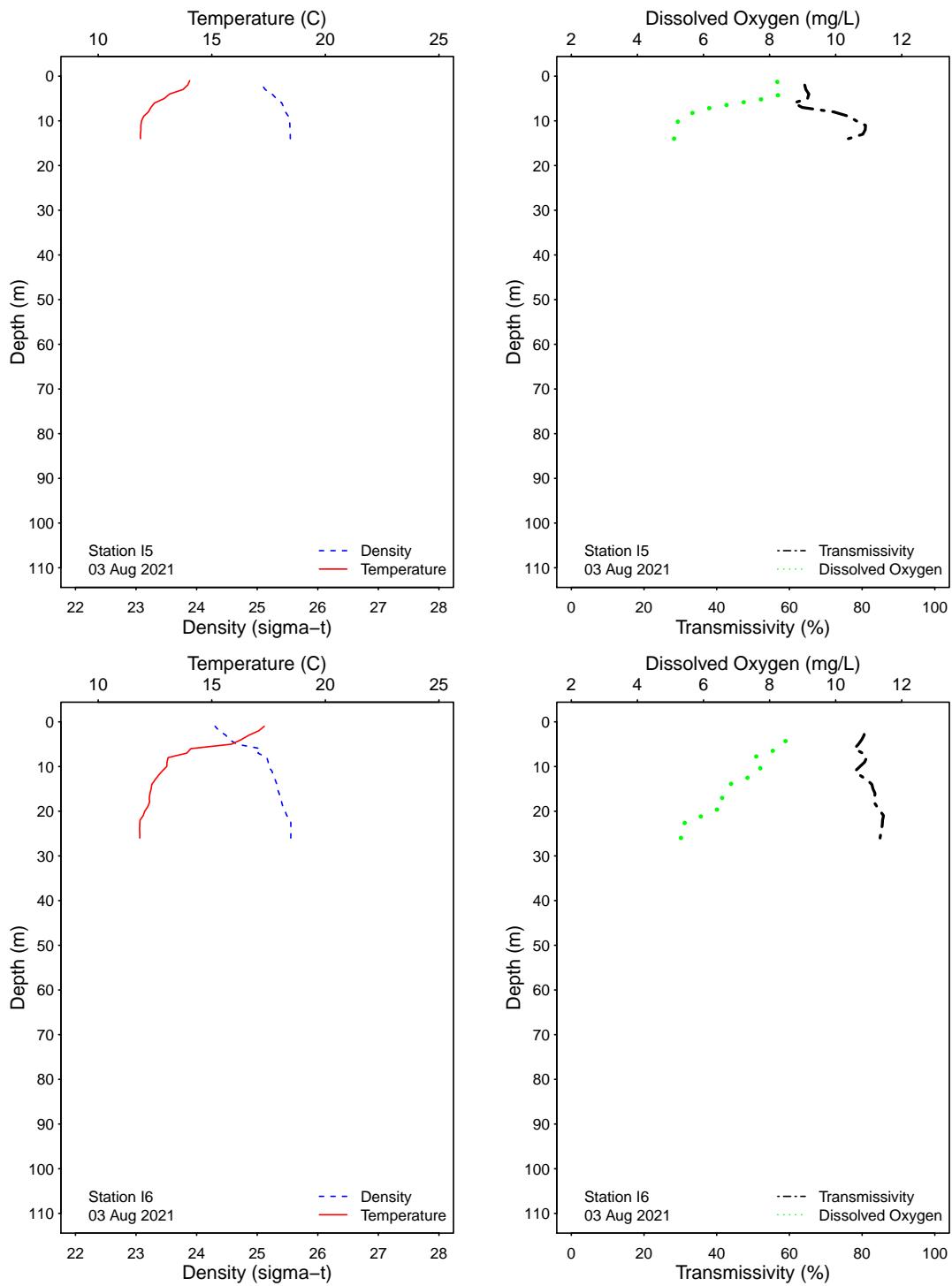


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

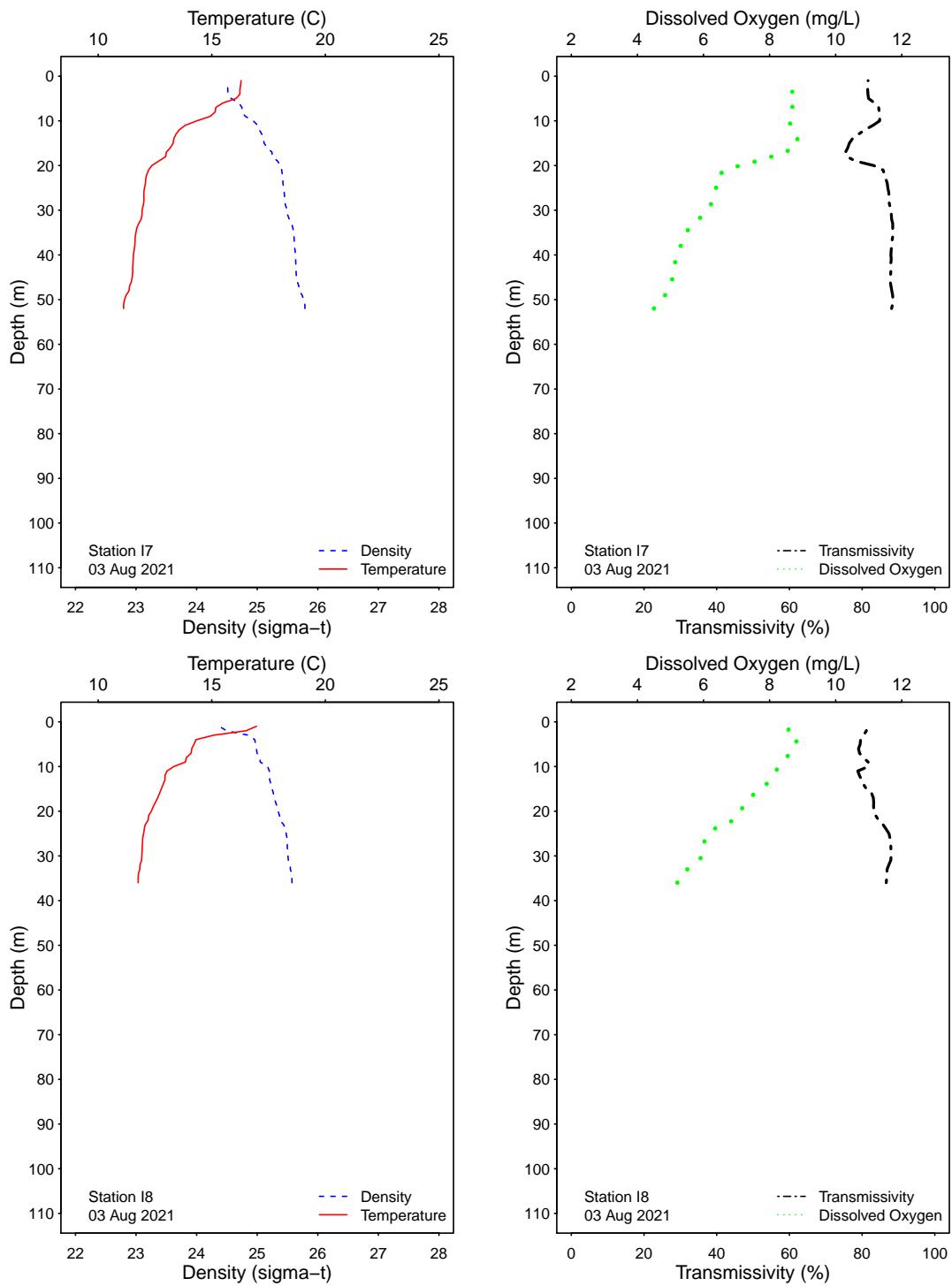


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

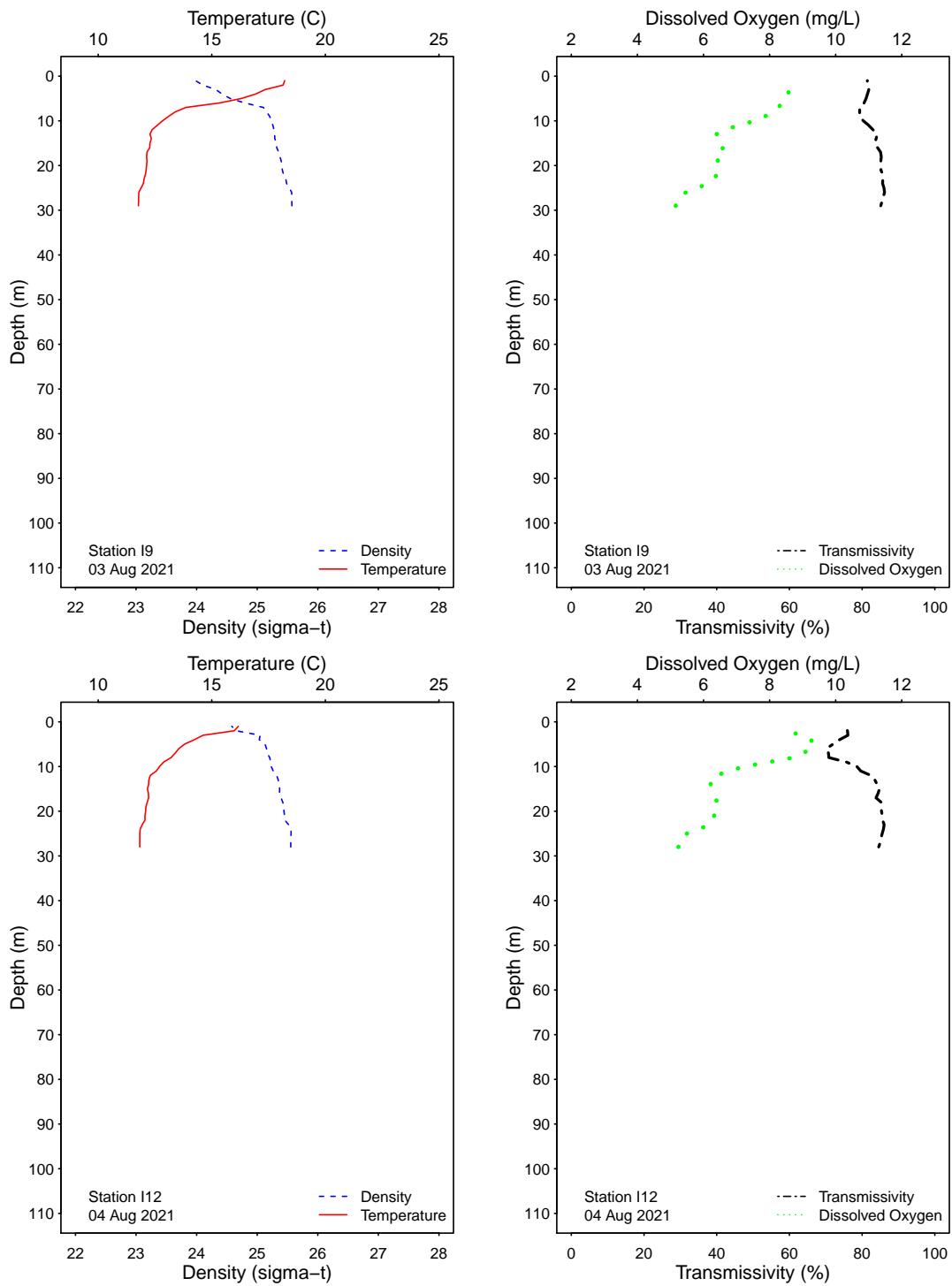


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

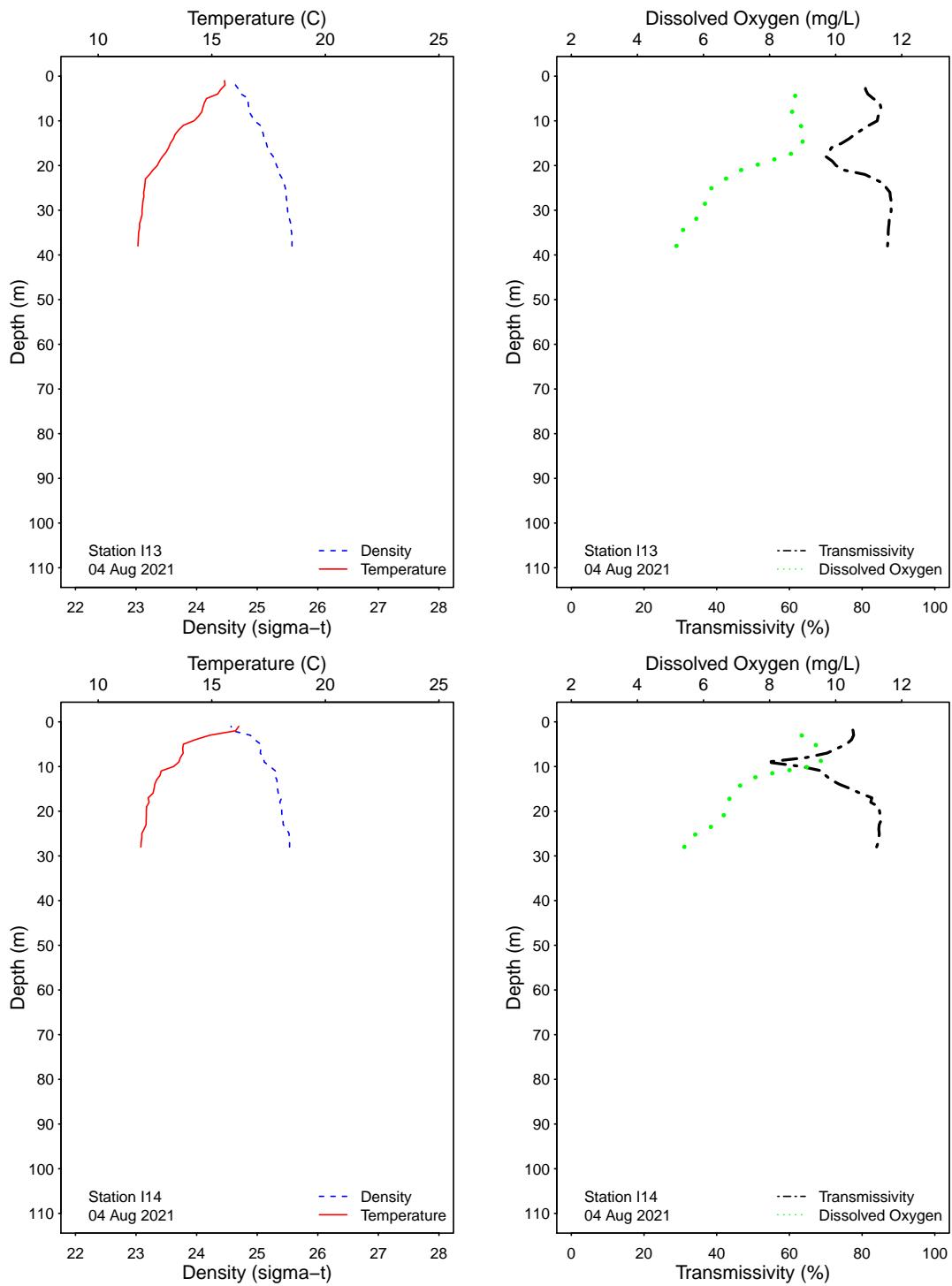


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

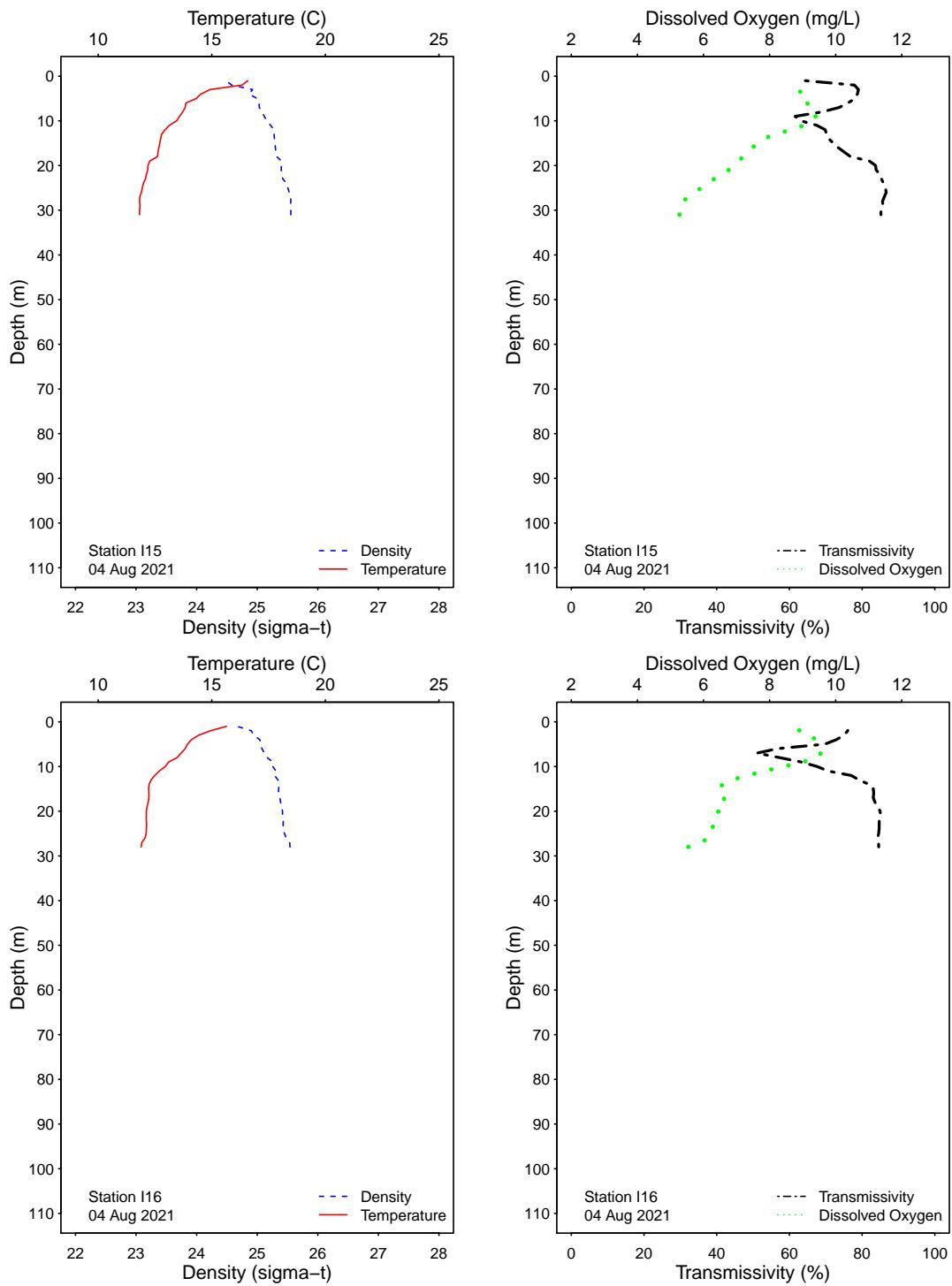


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

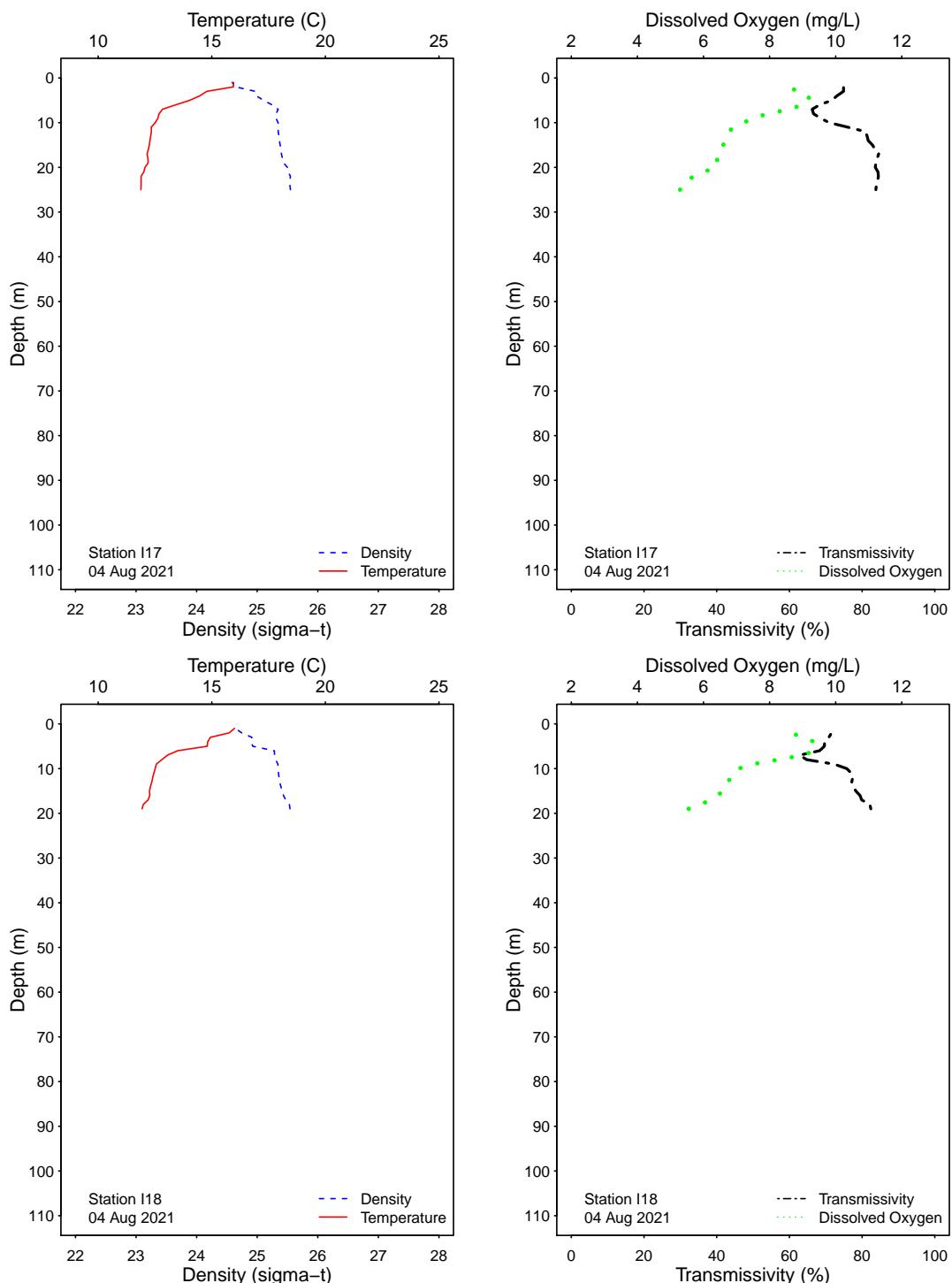


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

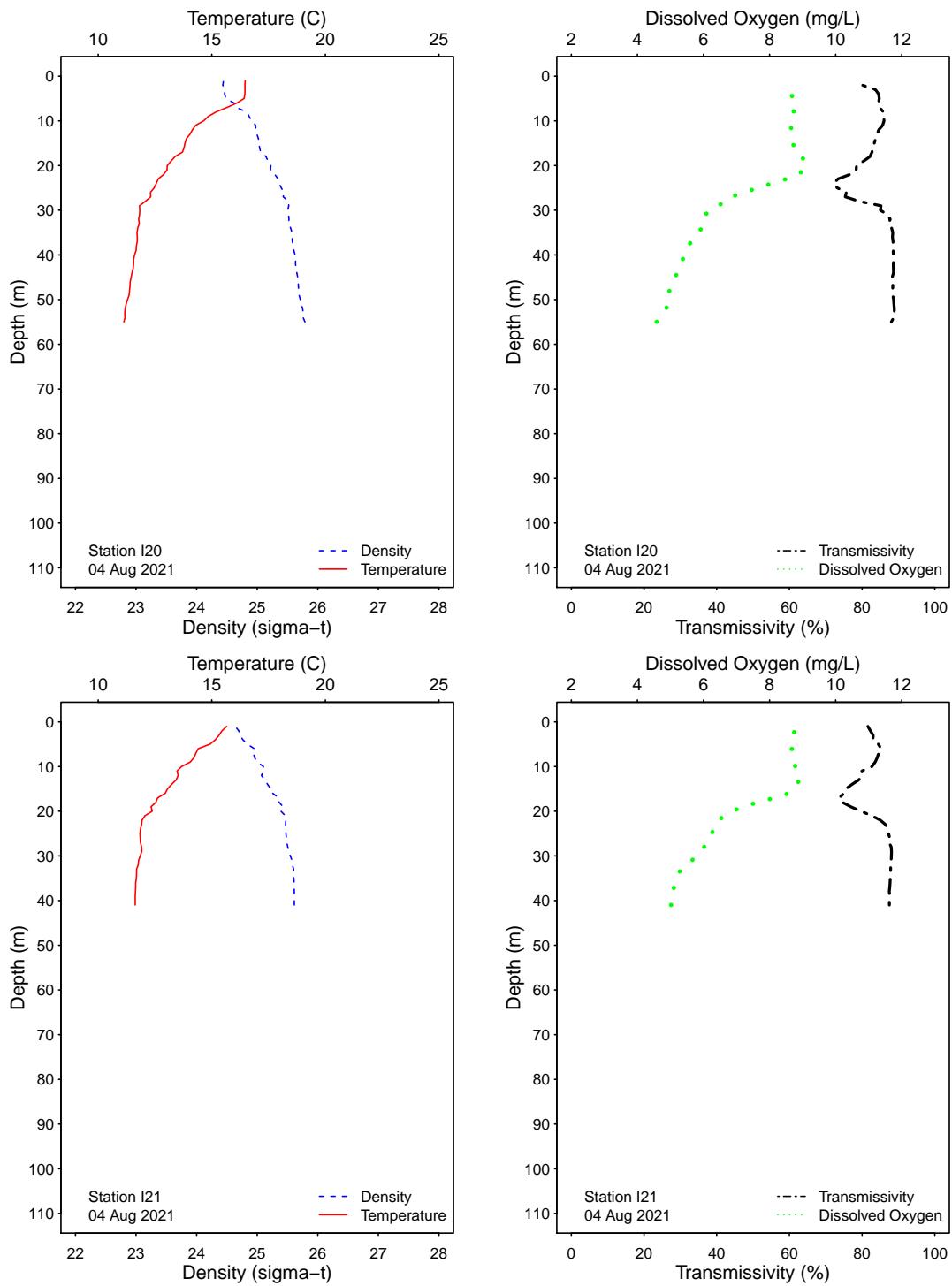


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

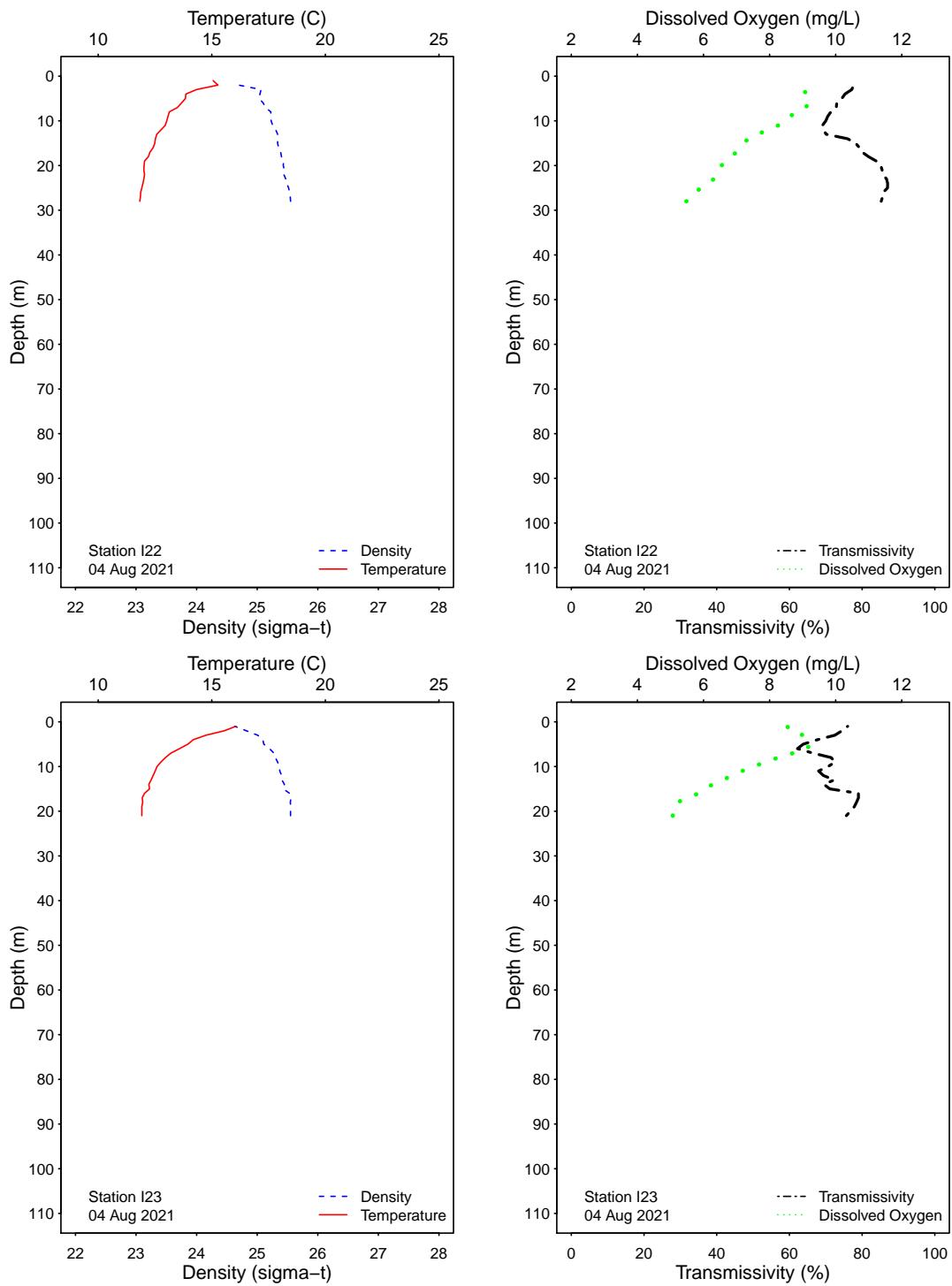


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

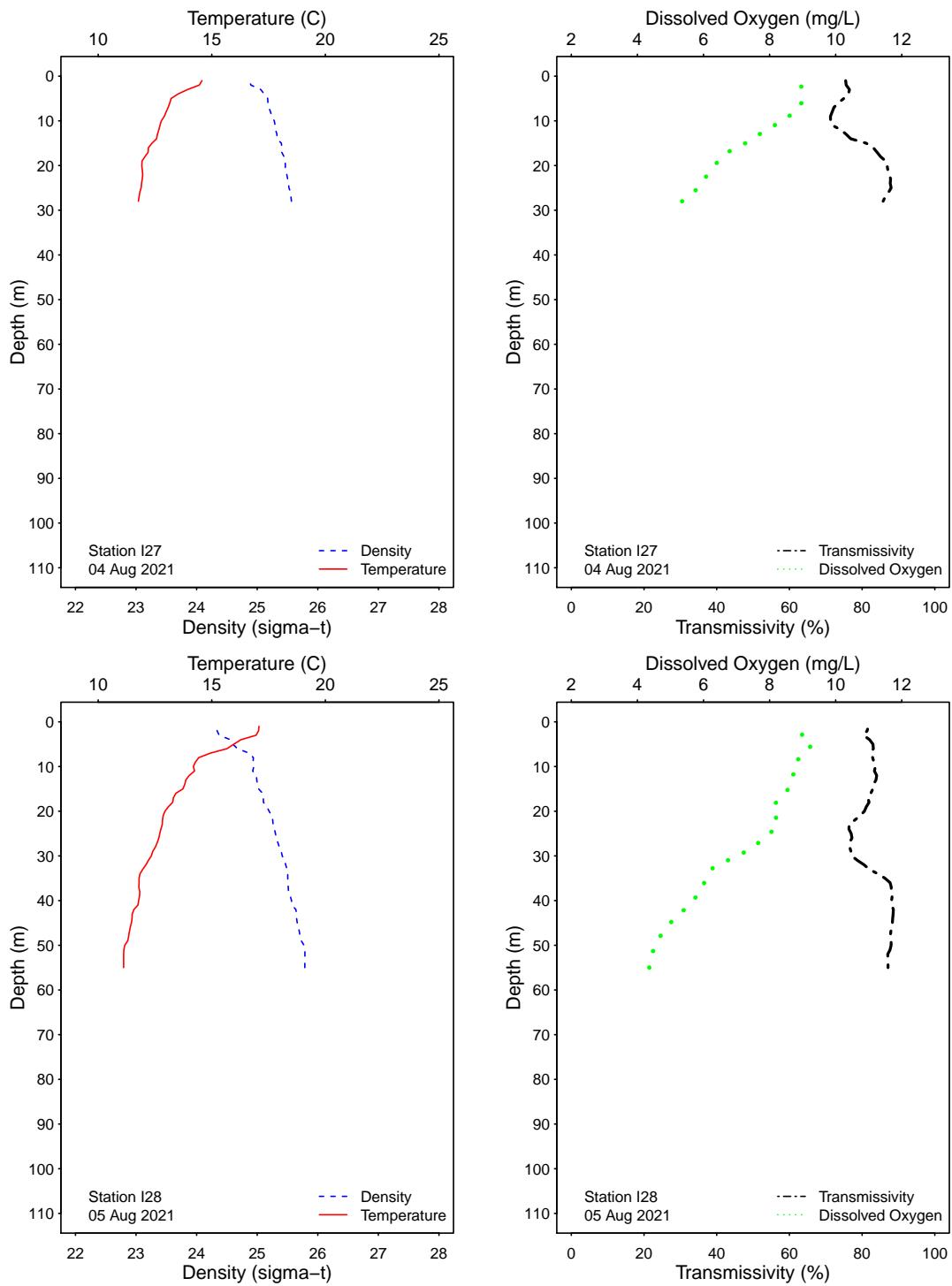


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

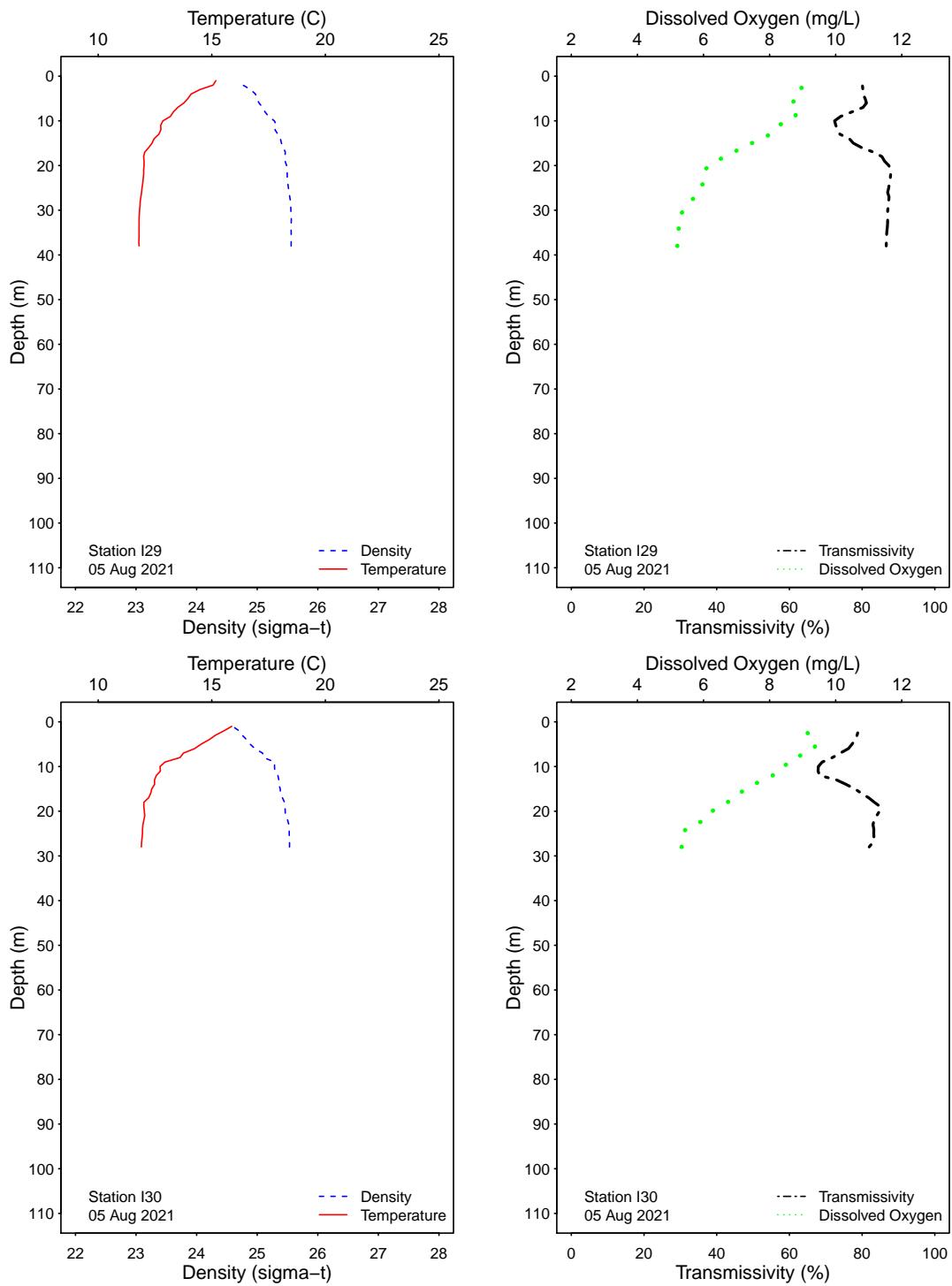


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

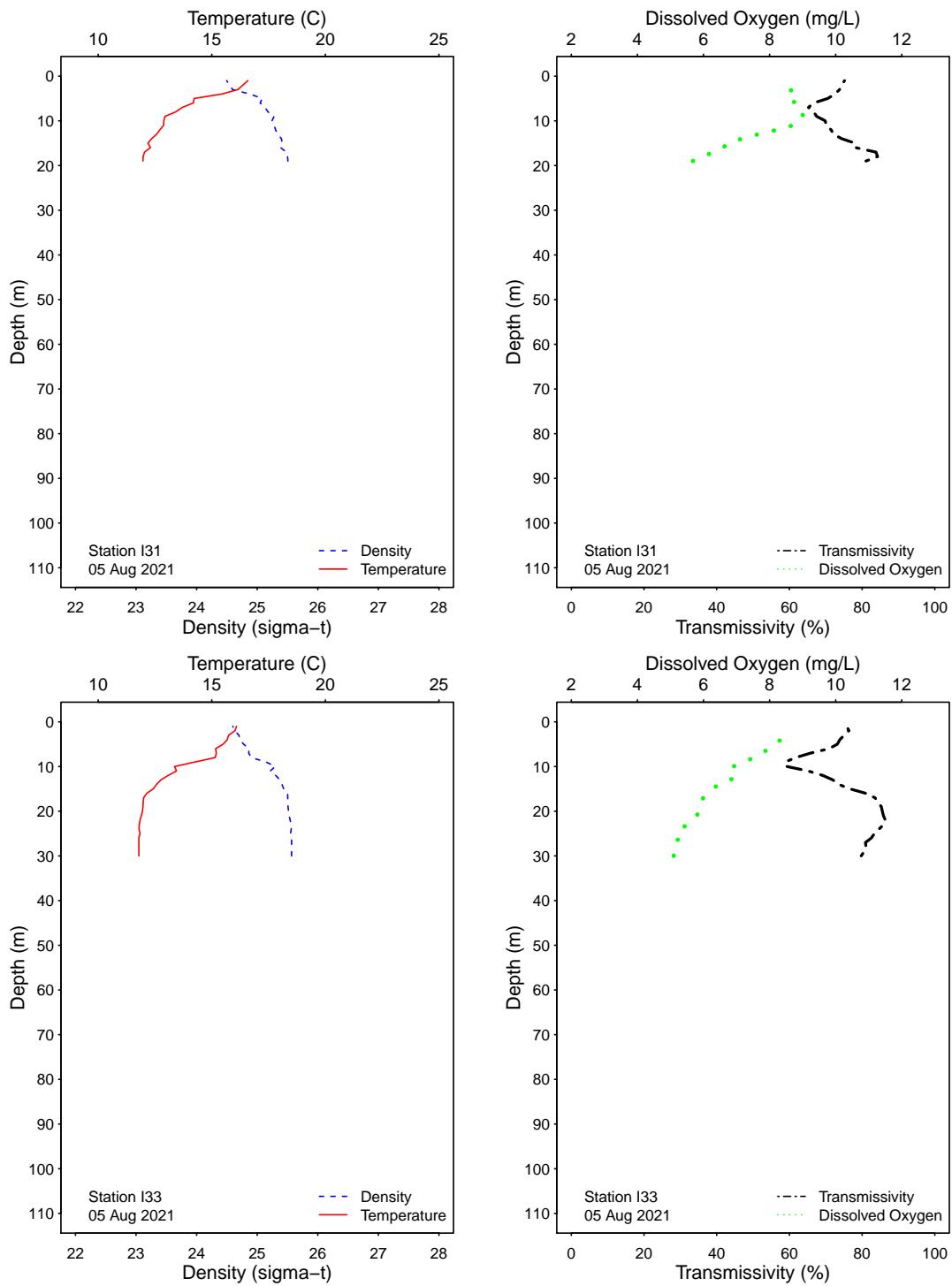


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

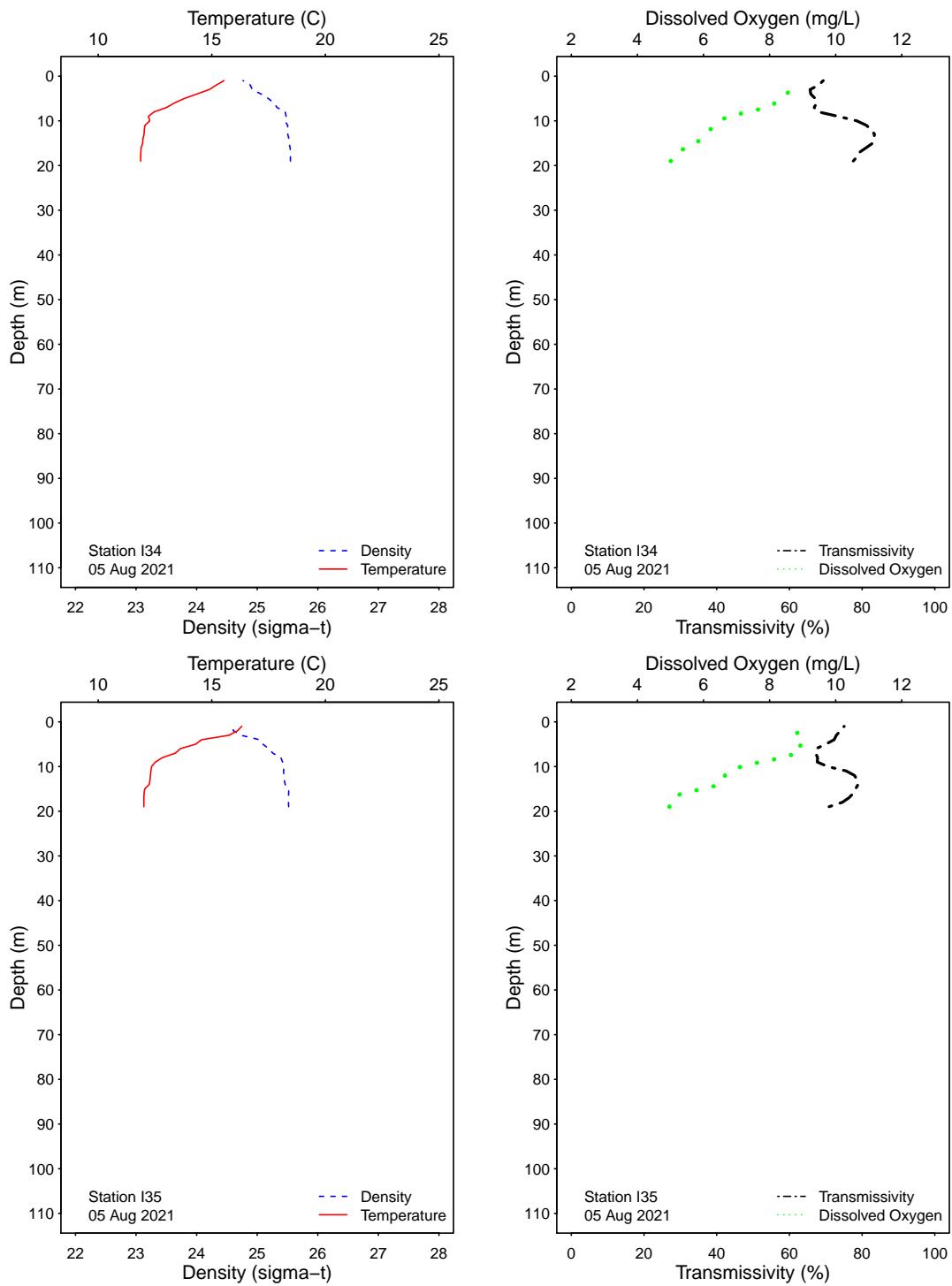


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

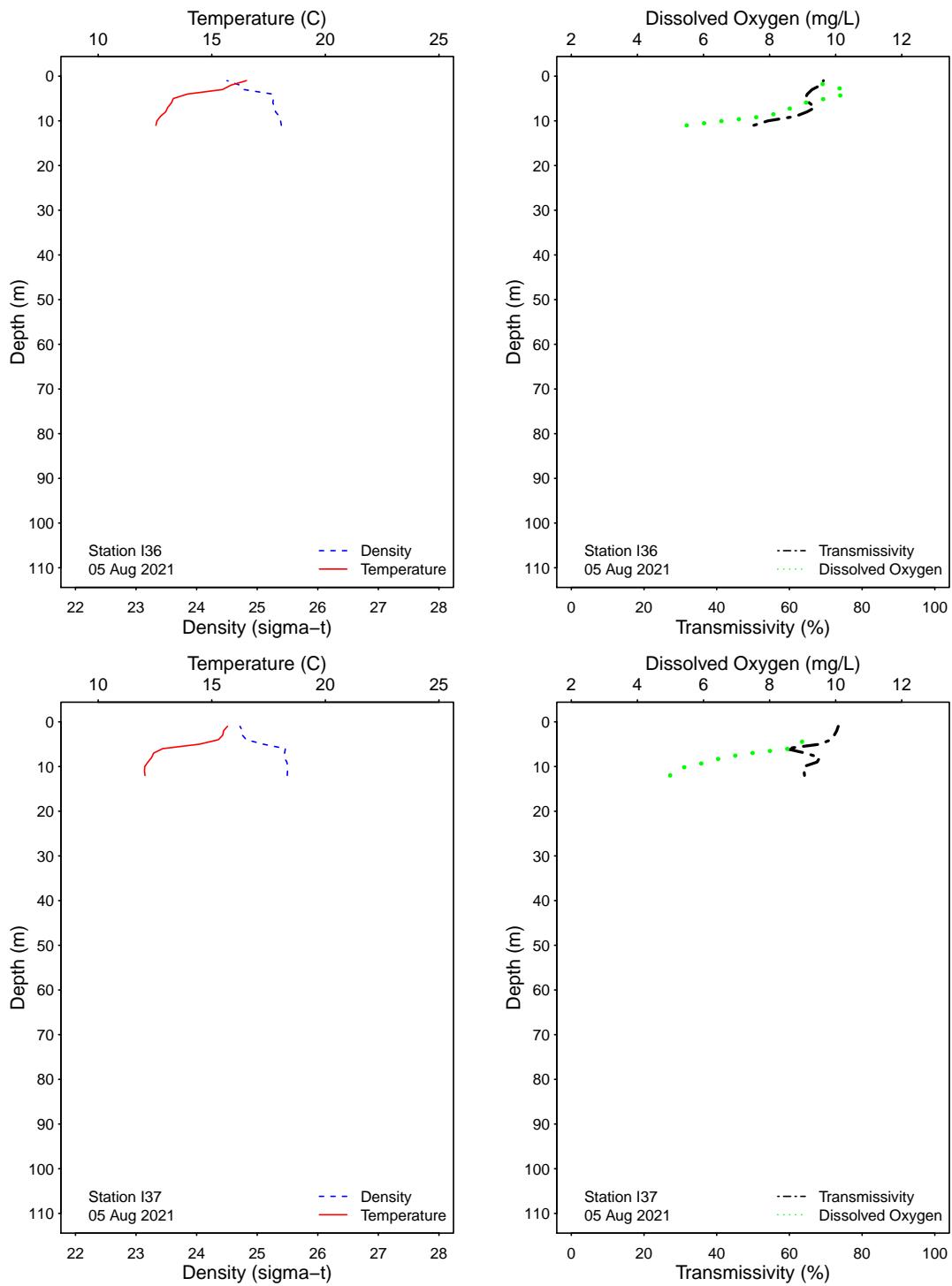


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

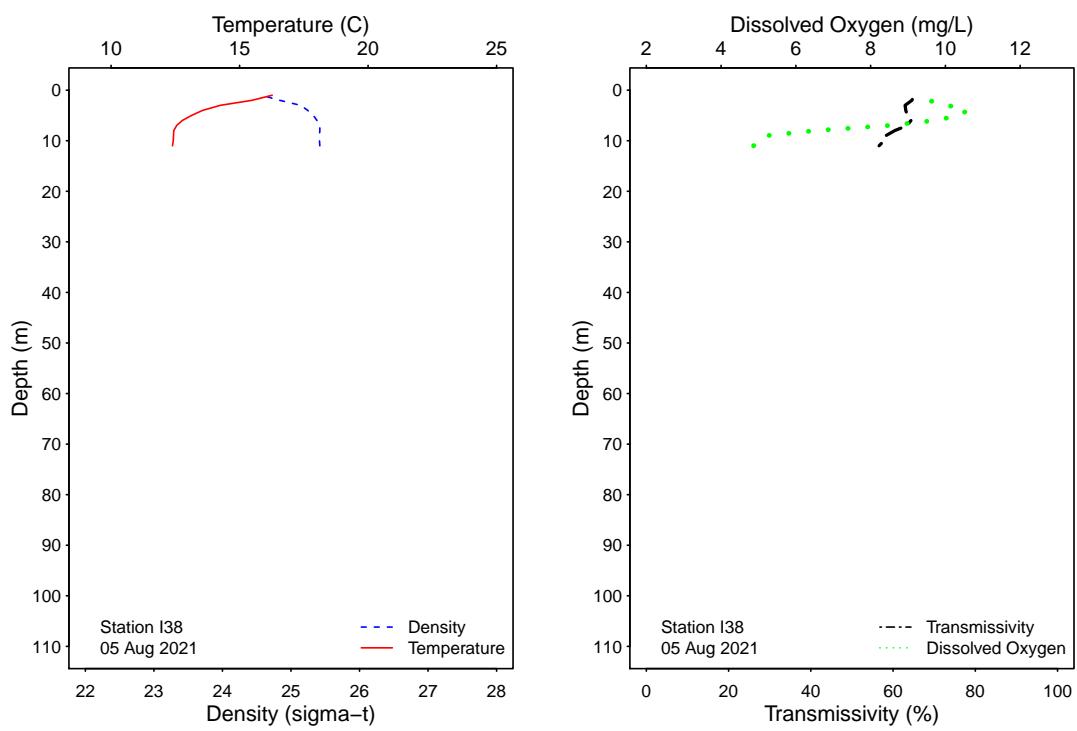


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



## 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* (Enter) are reported as CFU/100 mL.

<b>Station</b>	<b>Date</b>	<b>Depth</b>	<b>Analyst</b>	<b>Procedure</b>	<b>Total</b>	<b>Fecal</b>	<b>Enter</b>
I3	03 Aug 2021	18	BS	LAB DUPLICATE	<2	<2	<2
I8	03 Aug 2021	37	KA	LAB DUPLICATE	<2	<2	<2
I9	03 Aug 2021	27	JF	LAB DUPLICATE	20e	6e	2e
I12	04 Aug 2021	18	KA	LAB DUPLICATE	80e	14e	6e
I13	04 Aug 2021	18	KA	LAB DUPLICATE	<2	<2	<2
I16	04 Aug 2021	18	BS	LAB DUPLICATE	20e	<2	6e
I19	02 Aug 2021	6	BS	LAB DUPLICATE	<2	<2	<2
I19	09 Aug 2021	6	BS	LAB DUPLICATE	<20	<2	<2
I19	17 Aug 2021	6	BS	LAB DUPLICATE	<2	<2	<2
I19	24 Aug 2021	6	KA	LAB DUPLICATE	<20	<2	<2
I19	31 Aug 2021	6	AR	LAB DUPLICATE	1000	64	46
I30	05 Aug 2021	27	CRE	LAB DUPLICATE	<2	<2	<2
I36	05 Aug 2021	11	HF	FIELD DUPLICATE	<2	<2	<2
I36	05 Aug 2021	11	CRE	LAB DUPLICATE	<2	<2	<2
I40	02 Aug 2021	6	BS	LAB DUPLICATE	<2	<2	<2
I40	09 Aug 2021	6	CRE	LAB DUPLICATE	18e	<2	6e
I40	17 Aug 2021	6	JF	LAB DUPLICATE	<2	<2	<2
I40	24 Aug 2021	6	AR	LAB DUPLICATE	20e	<2	<2
I40	31 Aug 2021	6	AR	LAB DUPLICATE	<2	<2	<2
S12	03 Aug 2021		CRE	FIELD DUPLICATE	20e	2e	<2
S12	03 Aug 2021		CRE	LAB DUPLICATE	<20	<2	<2
S12	10 Aug 2021		KA	FIELD DUPLICATE	60e	4e	2e
S12	10 Aug 2021		KA	LAB DUPLICATE	<20	2e	2e
S12	17 Aug 2021		JF	FIELD DUPLICATE	20e	6e	4e
S12	17 Aug 2021		JF	LAB DUPLICATE	<200	4e	6e
S12	24 Aug 2021		KA	FIELD DUPLICATE	20e	8e	<2
S12	24 Aug 2021		KA	LAB DUPLICATE	20e	2e	2e
S12	31 Aug 2021		BS	FIELD DUPLICATE	20e	2e	<2
S12	31 Aug 2021		BS	LAB DUPLICATE	60e	4e	4e

ns = not sampled

ND = no data

