



SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

FEBRUARY 2022

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

Environmental Monitoring & Technical Services Division

March 31, 2022

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the February 2022 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2021-0011, NPDES Permit No. CA0109045.

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Peter S. Vroom, Ph.D.
Deputy 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 ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

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

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

Bacteriological Reporting and Quality Assurance

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)¹. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

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

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

¹ Bordner, R., J. Winter, and P. Scarpino (eds.). (1978). Microbiological Methods for Monitoring the Environment: Water and Wastes, EPA Research and Development, EPA-600/8-78-017. 337 p.

Shellfish Harvesting Standards

Total coliform:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987²) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2022 Quality Assurance Report, which will be completed in March 2023.

SUMMARY OF RESULTS

➤ Shoreline Water Quality Sampling

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

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

- The statistical threshold value (STV) standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12.
- The 30-day running median standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
- The STV standard for total coliforms was exceeded at stations S4, S5, S6, S10, S11, and S12.
- A sewage-like odor was observed at station S5 on one or more days in February.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp monitoring stations, combined with the results of satellite imagery data, suggest that outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details (<https://www.sandiego.gov/public-utilities/sustainability/ocean-monitoring/reports>).

➤ **Kelp Bed Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled on February 7, 17, and 25.
- During February, each of the seven kelp bed stations was out of compliance with the various 2019 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day running geometric mean standard for fecal coliforms was exceeded at station I40.
 - The SSM standard for fecal coliforms was exceeded at stations I25 and I40.
 - The 6-week running geometric mean standard for *Enterococcus* was exceeded at stations I19, I24, and I40.
 - The STV standard for *Enterococcus* was exceeded at station I40.
 - The 30-day running median standard for total coliforms was exceeded at stations I19, I24, I25, I26, I39, and I40.
 - The STV standard for total coliforms was exceeded at stations I19, I24, I25, I26, I32, I39, and I40.
- Water column temperatures ranged from 13.28 to 15.50°C. The difference between surface and bottom waters ranged from 0.20 to 1.39°C.
- Concentrations of chlorophyll *a* ranged from 0.95 to 6.22µg/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., February 1, 3, and 4).
- During February, 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 various 2019 Ocean Plan water contact standards.
- Water column temperatures ranged from 11.45 to 15.60°C at the offshore sites. The difference between surface and bottom waters ranged from 0.60 to 3.91°C.

- Chlorophyll *a* concentrations ranged from 0.62 to 12.39 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 Feb 2022	450	2900	78	3	2	410	89	14
02 Feb 2022	450	2900	78	3	2	410	89	14
03 Feb 2022	490	4887	194	3	2	412	229	22
04 Feb 2022	490	4887	194	3	2	412	229	22
05 Feb 2022	490	4887	194	3	2	412	229	22
06 Feb 2022	490	4887	194	3	2	412	229	22
07 Feb 2022	490	4887	194	3	2	412	229	22
08 Feb 2022	444	5849	78	3	2	655	89	14
09 Feb 2022	444	5849	78	3	2	655	89	14
10 Feb 2022	542	4887	194	3	2	797	229	22
11 Feb 2022	542	4887	194	3	2	797	229	22
12 Feb 2022	542	4887	194	3	2	797	229	22
13 Feb 2022	542	4887	194	3	2	797	229	22
14 Feb 2022	542	4887	194	3	2	797	229	22
15 Feb 2022	636	1355	78	5	2	767	123	18
16 Feb 2022	636	1355	78	5	2	767	123	18
17 Feb 2022	477	1061	43	4	2	718	69	12
18 Feb 2022	477	1061	43	4	2	718	69	12
19 Feb 2022	477	1061	43	4	2	718	69	12
20 Feb 2022	477	1061	43	4	2	718	69	12
21 Feb 2022	477	1061	43	4	2	718	69	12
22 Feb 2022	909	1723	36	3	2	1261	71	10
23 Feb 2022	909	1723	36	3	2	1261	71	10
24 Feb 2022	477	1061	17	4	2	718	44	14
25 Feb 2022	477	1061	17	4	2	718	44	14
26 Feb 2022	477	1061	17	4	2	718	44	14
27 Feb 2022	477	1061	17	4	2	718	44	14
28 Feb 2022	477	1061	17	4	2	718	44	14

* 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
01 Feb 2022	IC	E	E	IC	IC	IC	E	E
08 Feb 2022	IC	E	IC	IC	IC	E	IC	IC
15 Feb 2022	E	IC	IC	IC	IC	E	IC	IC
22 Feb 2022	E	E	IC	IC	IC	E	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 Feb 2022	335	1932	43	3	3	453	47	23
02 Feb 2022	335	1932	43	3	3	453	47	23
03 Feb 2022	335	1932	43	3	3	453	47	23
04 Feb 2022	335	1932	43	3	3	453	47	23
05 Feb 2022	335	1932	43	3	3	453	47	23
06 Feb 2022	335	1932	43	3	3	453	47	23
07 Feb 2022	335	1932	43	3	3	453	47	23
08 Feb 2022	215	1932	25	3	3	330	29	14
09 Feb 2022	215	1932	25	3	3	330	29	14
10 Feb 2022	215	1932	25	3	3	330	29	14
11 Feb 2022	215	1932	25	3	3	330	29	14
12 Feb 2022	215	1932	25	3	3	330	29	14
13 Feb 2022	215	1932	25	3	3	330	29	14
14 Feb 2022	215	1932	25	3	3	330	29	14
15 Feb 2022	290	1874	23	3	4	456	40	18
16 Feb 2022	290	1874	23	3	4	456	40	18
17 Feb 2022	290	1874	23	3	4	456	40	18
18 Feb 2022	290	1874	23	3	4	456	40	18
19 Feb 2022	290	1874	23	3	4	456	40	18
20 Feb 2022	290	1874	23	3	4	456	40	18
21 Feb 2022	290	1874	23	3	4	456	40	18
22 Feb 2022	655	1874	25	3	4	957	57	18
23 Feb 2022	655	1874	25	3	4	957	57	18
24 Feb 2022	655	1874	25	3	4	957	57	18
25 Feb 2022	655	1874	25	3	4	957	57	18
26 Feb 2022	655	1874	25	3	4	957	57	18
27 Feb 2022	655	1874	25	3	4	957	57	18
28 Feb 2022	655	1874	25	3	4	957	57	18

* Geometric mean calculated using n<5

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2022	1400	6800	1200	2	2	2400	1800	16
02 Feb 2022	1400	6800	1200	2	2	2400	1800	16
03 Feb 2022	6200	11400	2700	2	2	4300	5200	368
04 Feb 2022	6200	11400	2700	2	2	4300	5200	368
05 Feb 2022	6200	11400	2700	2	2	4300	5200	368
06 Feb 2022	6200	11400	2700	2	2	4300	5200	368
07 Feb 2022	6200	11400	2700	2	2	4300	5200	368
08 Feb 2022	1400	16000	1200	2	2	6200	1800	20
09 Feb 2022	1400	16000	1200	2	2	6200	1800	20
10 Feb 2022	5870	11400	2700	2	2	9600	5200	370
11 Feb 2022	5870	11400	2700	2	2	9600	5200	370
12 Feb 2022	5870	11400	2700	2	2	9600	5200	370
13 Feb 2022	5870	11400	2700	2	2	9600	5200	370
14 Feb 2022	5870	11400	2700	2	2	9600	5200	370
15 Feb 2022	8800	6800	1200	2	2	6200	1800	40
16 Feb 2022	8800	6800	1200	2	2	6200	1800	40
17 Feb 2022	4770	10900	610	2	2	8100	910	30
18 Feb 2022	4770	10900	610	2	2	8100	910	30
19 Feb 2022	4770	10900	610	2	2	8100	910	30
20 Feb 2022	4770	10900	610	2	2	8100	910	30
21 Feb 2022	4770	10900	610	2	2	8100	910	30
22 Feb 2022	8800	16000	100	2	2	13000	880	40
23 Feb 2022	8800	16000	100	2	2	13000	880	40
24 Feb 2022	4770	10900	60	2	2	8100	450	90
25 Feb 2022	4770	10900	60	2	2	8100	450	90
26 Feb 2022	4770	10900	60	2	2	8100	450	90
27 Feb 2022	4770	10900	60	2	2	8100	450	90
28 Feb 2022	4770	10900	60	2	2	8100	450	90

* Median calculated using n<5

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
February	E	E	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

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

Station	Date	Time	Total	Fecal	Entero
S0	01 Feb 2022	955	2000e	320e	240e
S0	08 Feb 2022	810	>16000	11000	10000
S0	15 Feb 2022	745	13000	740	320e
S0	22 Feb 2022	813	>16000	10000	>12000
S2	01 Feb 2022	920	>16000	3800e	3400e
S2	08 Feb 2022	730	500	80e	92
S2	15 Feb 2022	715	>16000	5200	3400e
S2	22 Feb 2022	908	>16000	>12000	9600
S3	01 Feb 2022	840	420	92	120e
S3	08 Feb 2022	655	660	60e	160e
S3	15 Feb 2022	650	2600e	900	480
S3	22 Feb 2022	945	>16000	>12000	>12000
S4	01 Feb 2022	932	20e	12e	20e
S4	08 Feb 2022	813	740	300	140
S4	15 Feb 2022	927	8800	1200e	660
S4	22 Feb 2022	816	>16000	>12000	>12000
S5	01 Feb 2022	800	5800	1100	540
S5	08 Feb 2022	920	>16000	>12000	>12000
S5	15 Feb 2022	1033	120e	8e	80e
S5	22 Feb 2022	920	>16000	>12000	>12000
S6	01 Feb 2022	824	4800	1200e	680
S6	08 Feb 2022	953	2e	<2	<2
S6	15 Feb 2022	1106	20e	<2	2e
S6	22 Feb 2022	936	100e	18e	4e
S8	01 Feb 2022	1039	2e	<2	10e
S8	08 Feb 2022	1108	2e	<2	<2
S8	15 Feb 2022	830	<20	<20	2e
S8	22 Feb 2022	1021	<2	2e	<2
S9	01 Feb 2022	1101	2e	2e	18e
S9	08 Feb 2022	1136	<2	<2	6e
S9	15 Feb 2022	800	4e	4e	4e
S9	22 Feb 2022	1046	2e	<2	<2
S10	01 Feb 2022	922	20e	8e	24e
S10	08 Feb 2022	837	13000	4200	1800
S10	15 Feb 2022	916	3200e	660	440
S10	22 Feb 2022	824	>16000	>12000	>12000
S11	01 Feb 2022	812	9400	2400e	700
S11	08 Feb 2022	946	<20	<2	4e
S11	15 Feb 2022	1046	20e	10e	12e
S11	22 Feb 2022	930	880	78	18e
S12	01 Feb 2022	841	4400	640	660
S12	08 Feb 2022	1010	<20	<2	<2
S12	15 Feb 2022	1010	40e	8e	12e

Station	Date	Time	Total	Fecal	Enteric
S12	22 Feb 2022	950	140	4e	<2

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Parameter	Value
S0	01 Feb 2022	Arrive Time	955
S0	01 Feb 2022	Weather	Cloudy
S0	01 Feb 2022	Wind Speed (kts)	4
S0	01 Feb 2022	Wind Dir	NE
S0	01 Feb 2022	Animal Life	Bird-5
S0	01 Feb 2022	Floatables	None
S0	01 Feb 2022	Water Color	Green
S0	01 Feb 2022	Current Direction	N
S0	01 Feb 2022	Water Temp (C)	14
S0	01 Feb 2022	Wave Height Low (ft)	5
S0	01 Feb 2022	High Tide (ft)	6.63
S0	01 Feb 2022	High Tide Time	837
S0	01 Feb 2022	Low Tide (ft)	1.34
S0	01 Feb 2022	Low Tide Time	232
S0	01 Feb 2022	Comments	Kelp; high tide. 0.5 L/sec water flowing from storm drain
S0	08 Feb 2022	Arrive Time	810
S0	08 Feb 2022	Weather	Sunny
S0	08 Feb 2022	Wind Speed (kts)	1.1
S0	08 Feb 2022	Wind Dir	NE
S0	08 Feb 2022	Animal Life	Bird-20; Dog-5
S0	08 Feb 2022	Floatables	None
S0	08 Feb 2022	Water Color	Green
S0	08 Feb 2022	Current Direction	S
S0	08 Feb 2022	Water Temp (C)	9
S0	08 Feb 2022	Wave Height Low (ft)	2
S0	08 Feb 2022	High Tide (ft)	4.26
S0	08 Feb 2022	High Tide Time	214
S0	08 Feb 2022	Low Tide (ft)	1.27
S0	08 Feb 2022	Low Tide Time	1010
S0	08 Feb 2022	Comments	Kelp; 1 L/sec water flowing from storm drain. Residual odor in the environment
S0	15 Feb 2022	Arrive Time	745
S0	15 Feb 2022	Weather	Cloudy
S0	15 Feb 2022	Wind Speed (kts)	3.8
S0	15 Feb 2022	Wind Dir	N
S0	15 Feb 2022	Animal Life	Dog-2; Seagull-20
S0	15 Feb 2022	Floatables	None
S0	15 Feb 2022	Water Color	Green
S0	15 Feb 2022	Current Direction	S
S0	15 Feb 2022	Water Temp (C)	13
S0	15 Feb 2022	Wave Height Low (ft)	3
S0	15 Feb 2022	High Tide (ft)	5.74
S0	15 Feb 2022	High Tide Time	755
S0	15 Feb 2022	Low Tide (ft)	1.61
S0	15 Feb 2022	Low Tide Time	155
S0	15 Feb 2022	Comments	Kelp; 1.0 L/sec water flowing from storm drain
S0	22 Feb 2022	Arrive Time	813
S0	22 Feb 2022	Weather	Cloudy
S0	22 Feb 2022	Wind Speed (kts)	6.6
S0	22 Feb 2022	Wind Dir	N
S0	22 Feb 2022	Animal Life	Bird-15
S0	22 Feb 2022	Floatables	None
S0	22 Feb 2022	Water Color	Green

Station	Date	Parameter	Value
S0	22 Feb 2022	Current Direction	N
S0	22 Feb 2022	Water Temp (C)	15
S0	22 Feb 2022	Wave Height Low (ft)	3
S0	22 Feb 2022	High Tide (ft)	4.69
S0	22 Feb 2022	High Tide Time	17
S0	22 Feb 2022	Low Tide (ft)	0.95
S0	22 Feb 2022	Low Tide Time	723
S0	22 Feb 2022	Comments	none
S2	01 Feb 2022	Arrive Time	920
S2	01 Feb 2022	Weather	Cloudy
S2	01 Feb 2022	Wind Speed (kts)	3.6
S2	01 Feb 2022	Wind Dir	NE
S2	01 Feb 2022	Animal Life	Bird-10; Dog-2
S2	01 Feb 2022	Floatables	None
S2	01 Feb 2022	Water Color	Green
S2	01 Feb 2022	Current Direction	NE
S2	01 Feb 2022	Water Temp (C)	14
S2	01 Feb 2022	Wave Height Low (ft)	5
S2	01 Feb 2022	High Tide (ft)	6.63
S2	01 Feb 2022	High Tide Time	837
S2	01 Feb 2022	Low Tide (ft)	1.34
S2	01 Feb 2022	Low Tide Time	232
S2	01 Feb 2022	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4; high tide. No flow from storm drain.
S2	08 Feb 2022	Arrive Time	730
S2	08 Feb 2022	Weather	Sunny
S2	08 Feb 2022	Wind Speed (kts)	1.3
S2	08 Feb 2022	Wind Dir	NE
S2	08 Feb 2022	Animal Life	Bird-20; Dog-2
S2	08 Feb 2022	Floatables	None
S2	08 Feb 2022	Water Color	Green
S2	08 Feb 2022	Current Direction	S
S2	08 Feb 2022	Water Temp (C)	10
S2	08 Feb 2022	Wave Height Low (ft)	2
S2	08 Feb 2022	High Tide (ft)	4.26
S2	08 Feb 2022	High Tide Time	214
S2	08 Feb 2022	Low Tide (ft)	1.27
S2	08 Feb 2022	Low Tide Time	1010
S2	08 Feb 2022	Comments	Kelp; No flow from storm drain
S2	15 Feb 2022	Arrive Time	715
S2	15 Feb 2022	Weather	Cloudy
S2	15 Feb 2022	Wind Speed (kts)	4.8
S2	15 Feb 2022	Wind Dir	N
S2	15 Feb 2022	Animal Life	Seagull-20
S2	15 Feb 2022	Floatables	None
S2	15 Feb 2022	Water Color	Green
S2	15 Feb 2022	Current Direction	S
S2	15 Feb 2022	Water Temp (C)	14
S2	15 Feb 2022	Wave Height Low (ft)	3
S2	15 Feb 2022	High Tide (ft)	5.74
S2	15 Feb 2022	High Tide Time	755
S2	15 Feb 2022	Low Tide (ft)	1.61
S2	15 Feb 2022	Low Tide Time	155
S2	15 Feb 2022	Comments	Kelp; No flow from storm drain
S2	22 Feb 2022	Arrive Time	908
S2	22 Feb 2022	Weather	Cloudy
S2	22 Feb 2022	Wind Speed (kts)	7.3

Station	Date	Parameter	Value
S2	22 Feb 2022	Wind Dir	N
S2	22 Feb 2022	Animal Life	Bird-15; Dog-6
S2	22 Feb 2022	Floatables	None
S2	22 Feb 2022	Water Color	Green
S2	22 Feb 2022	Current Direction	N
S2	22 Feb 2022	Water Temp (C)	15
S2	22 Feb 2022	Wave Height Low (ft)	3
S2	22 Feb 2022	High Tide (ft)	4.69
S2	22 Feb 2022	High Tide Time	17
S2	22 Feb 2022	Low Tide (ft)	0.95
S2	22 Feb 2022	Low Tide Time	723
S2	22 Feb 2022	Comments	none
S3	01 Feb 2022	Arrive Time	840
S3	01 Feb 2022	Weather	Cloudy
S3	01 Feb 2022	Wind Speed (kts)	3.6
S3	01 Feb 2022	Wind Dir	NE
S3	01 Feb 2022	Animal Life	Bird-10; Dog-2
S3	01 Feb 2022	Floatables	None
S3	01 Feb 2022	Water Color	Green
S3	01 Feb 2022	Current Direction	N
S3	01 Feb 2022	Water Temp (C)	14
S3	01 Feb 2022	Wave Height Low (ft)	5
S3	01 Feb 2022	High Tide (ft)	6.63
S3	01 Feb 2022	High Tide Time	837
S3	01 Feb 2022	Low Tide (ft)	1.34
S3	01 Feb 2022	Low Tide Time	232
S3	01 Feb 2022	Comments	Water clear; Trash-0; Kelp; Person/Walker/Jogger-4; high tide. No flow from storm drain.
S3	08 Feb 2022	Arrive Time	655
S3	08 Feb 2022	Weather	Sunny
S3	08 Feb 2022	Wind Speed (kts)	1.7
S3	08 Feb 2022	Wind Dir	NE
S3	08 Feb 2022	Animal Life	Bird-20; Dog-3
S3	08 Feb 2022	Floatables	None
S3	08 Feb 2022	Water Color	Green
S3	08 Feb 2022	Current Direction	S
S3	08 Feb 2022	Water Temp (C)	10
S3	08 Feb 2022	Wave Height Low (ft)	2
S3	08 Feb 2022	High Tide (ft)	4.26
S3	08 Feb 2022	High Tide Time	214
S3	08 Feb 2022	Low Tide (ft)	1.27
S3	08 Feb 2022	Low Tide Time	1010
S3	08 Feb 2022	Comments	Kelp; No flow from storm drain
S3	15 Feb 2022	Arrive Time	650
S3	15 Feb 2022	Weather	Cloudy
S3	15 Feb 2022	Wind Speed (kts)	5.2
S3	15 Feb 2022	Wind Dir	N
S3	15 Feb 2022	Animal Life	Bird-20; Dog-3
S3	15 Feb 2022	Floatables	None
S3	15 Feb 2022	Water Color	Green
S3	15 Feb 2022	Current Direction	S
S3	15 Feb 2022	Water Temp (C)	14
S3	15 Feb 2022	Wave Height Low (ft)	3
S3	15 Feb 2022	High Tide (ft)	5.74
S3	15 Feb 2022	High Tide Time	755
S3	15 Feb 2022	Low Tide (ft)	1.61
S3	15 Feb 2022	Low Tide Time	155
S3	15 Feb 2022	Comments	Kelp; No flow from storm drain

Station	Date	Parameter	Value
S3	22 Feb 2022	Arrive Time	935
S3	22 Feb 2022	Weather	Cloudy
S3	22 Feb 2022	Wind Speed (kts)	5.8
S3	22 Feb 2022	Wind Dir	N
S3	22 Feb 2022	Animal Life	Bird-15; Dog-2
S3	22 Feb 2022	Floatables	None
S3	22 Feb 2022	Water Color	Green
S3	22 Feb 2022	Current Direction	N
S3	22 Feb 2022	Water Temp (C)	15
S3	22 Feb 2022	Wave Height Low (ft)	3
S3	22 Feb 2022	High Tide (ft)	4.69
S3	22 Feb 2022	High Tide Time	17
S3	22 Feb 2022	Low Tide (ft)	0.95
S3	22 Feb 2022	Low Tide Time	723
S3	22 Feb 2022	Comments	none
S4	01 Feb 2022	Arrive Time	932
S4	01 Feb 2022	Weather	Partly cloudy
S4	01 Feb 2022	Wind Speed (kts)	10.1
S4	01 Feb 2022	Wind Dir	S
S4	01 Feb 2022	Animal Life	Bird-3
S4	01 Feb 2022	Floatables	Foam
S4	01 Feb 2022	Water Color	Green
S4	01 Feb 2022	Current Direction	N
S4	01 Feb 2022	Water Temp (C)	16.7
S4	01 Feb 2022	Wave Height Low (ft)	1
S4	01 Feb 2022	High Tide (ft)	6.63
S4	01 Feb 2022	High Tide Time	837
S4	01 Feb 2022	Low Tide (ft)	1.34
S4	01 Feb 2022	Low Tide Time	232
S4	01 Feb 2022	Comments	Seagrass; Debris
S4	08 Feb 2022	Arrive Time	813
S4	08 Feb 2022	Weather	Sunny
S4	08 Feb 2022	Wind Speed (kts)	2.5
S4	08 Feb 2022	Wind Dir	N
S4	08 Feb 2022	Animal Life	Bird-40
S4	08 Feb 2022	Floatables	None
S4	08 Feb 2022	Water Color	Green
S4	08 Feb 2022	Current Direction	N
S4	08 Feb 2022	Water Temp (C)	15.4
S4	08 Feb 2022	Wave Height Low (ft)	1
S4	08 Feb 2022	High Tide (ft)	4.26
S4	08 Feb 2022	High Tide Time	214
S4	08 Feb 2022	Low Tide (ft)	1.27
S4	08 Feb 2022	Low Tide Time	1010
S4	08 Feb 2022	Comments	none
S4	15 Feb 2022	Arrive Time	927
S4	15 Feb 2022	Weather	Drizzle
S4	15 Feb 2022	Wind Speed (kts)	11
S4	15 Feb 2022	Wind Dir	S
S4	15 Feb 2022	Animal Life	
S4	15 Feb 2022	Floatables	Foam
S4	15 Feb 2022	Water Color	Green
S4	15 Feb 2022	Current Direction	N
S4	15 Feb 2022	Water Temp (C)	16.2
S4	15 Feb 2022	Wave Height Low (ft)	1
S4	15 Feb 2022	High Tide (ft)	5.74
S4	15 Feb 2022	High Tide Time	755

Station	Date	Parameter	Value
S4	15 Feb 2022	Low Tide (ft)	1.61
S4	15 Feb 2022	Low Tide Time	155
S4	15 Feb 2022	Comments	Seagrass; Debris
S4	22 Feb 2022	Arrive Time	816
S4	22 Feb 2022	Weather	Cloudy
S4	22 Feb 2022	Wind Speed (kts)	7.1
S4	22 Feb 2022	Wind Dir	W
S4	22 Feb 2022	Animal Life	
S4	22 Feb 2022	Floatables	Foam; Film
S4	22 Feb 2022	Water Color	Green
S4	22 Feb 2022	Current Direction	S
S4	22 Feb 2022	Water Temp (C)	15.1
S4	22 Feb 2022	Wave Height Low (ft)	3
S4	22 Feb 2022	High Tide (ft)	4.69
S4	22 Feb 2022	High Tide Time	17
S4	22 Feb 2022	Low Tide (ft)	0.95
S4	22 Feb 2022	Low Tide Time	723
S4	22 Feb 2022	Comments	Kelp; Seagrass
S5	01 Feb 2022	Arrive Time	800
S5	01 Feb 2022	Weather	Cloudy
S5	01 Feb 2022	Wind Speed (kts)	4.8
S5	01 Feb 2022	Wind Dir	S
S5	01 Feb 2022	Animal Life	Dog-1
S5	01 Feb 2022	Floatables	Foam
S5	01 Feb 2022	Water Color	Green
S5	01 Feb 2022	Current Direction	N
S5	01 Feb 2022	Water Temp (C)	15.2
S5	01 Feb 2022	Wave Height Low (ft)	3
S5	01 Feb 2022	High Tide (ft)	6.63
S5	01 Feb 2022	High Tide Time	837
S5	01 Feb 2022	Low Tide (ft)	1.34
S5	01 Feb 2022	Low Tide Time	232
S5	01 Feb 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Debris; Person/Walker/Jogger-2; Sewage-like odor
S5	08 Feb 2022	Arrive Time	928
S5	08 Feb 2022	Weather	Sunny
S5	08 Feb 2022	Wind Speed (kts)	4.8
S5	08 Feb 2022	Wind Dir	E
S5	08 Feb 2022	Animal Life	Bird-7; Pelican-6; Seagull-2
S5	08 Feb 2022	Floatables	Foam; Film
S5	08 Feb 2022	Water Color	Green
S5	08 Feb 2022	Current Direction	N
S5	08 Feb 2022	Water Temp (C)	16.1
S5	08 Feb 2022	Wave Height Low (ft)	1
S5	08 Feb 2022	High Tide (ft)	4.26
S5	08 Feb 2022	High Tide Time	214
S5	08 Feb 2022	Low Tide (ft)	1.27
S5	08 Feb 2022	Low Tide Time	1010
S5	08 Feb 2022	Comments	Water turbid; Trash-1; Kelp; Debris; Person/Walker/Jogger-2; Sewage-like odor
S5	15 Feb 2022	Arrive Time	1033
S5	15 Feb 2022	Weather	Drizzle
S5	15 Feb 2022	Wind Speed (kts)	10.6
S5	15 Feb 2022	Wind Dir	SW
S5	15 Feb 2022	Animal Life	Bird-1
S5	15 Feb 2022	Floatables	Foam
S5	15 Feb 2022	Water Color	Green

Station	Date	Parameter	Value
S5	15 Feb 2022	Current Direction	N
S5	15 Feb 2022	Water Temp (C)	15.6
S5	15 Feb 2022	Wave Height Low (ft)	1
S5	15 Feb 2022	High Tide (ft)	5.74
S5	15 Feb 2022	High Tide Time	755
S5	15 Feb 2022	Low Tide (ft)	1.61
S5	15 Feb 2022	Low Tide Time	155
S5	15 Feb 2022	Comments	Kelp; Seagrass; Debris
S5	22 Feb 2022	Arrive Time	920
S5	22 Feb 2022	Weather	Cloudy
S5	22 Feb 2022	Wind Speed (kts)	11
S5	22 Feb 2022	Wind Dir	W
S5	22 Feb 2022	Animal Life	Pelican-6; Seagull-30
S5	22 Feb 2022	Floatables	Dead animals
S5	22 Feb 2022	Water Color	Green
S5	22 Feb 2022	Current Direction	S
S5	22 Feb 2022	Water Temp (C)	14.9
S5	22 Feb 2022	Wave Height Low (ft)	1
S5	22 Feb 2022	High Tide (ft)	4.69
S5	22 Feb 2022	High Tide Time	17
S5	22 Feb 2022	Low Tide (ft)	0.95
S5	22 Feb 2022	Low Tide Time	723
S5	22 Feb 2022	Comments	Seagrass; Debris
S6	01 Feb 2022	Arrive Time	824
S6	01 Feb 2022	Weather	Partly cloudy
S6	01 Feb 2022	Wind Speed (kts)	6.9
S6	01 Feb 2022	Wind Dir	W
S6	01 Feb 2022	Animal Life	Seagull-2
S6	01 Feb 2022	Floatables	Foam
S6	01 Feb 2022	Water Color	Green
S6	01 Feb 2022	Current Direction	N
S6	01 Feb 2022	Water Temp (C)	14.8
S6	01 Feb 2022	Wave Height Low (ft)	2
S6	01 Feb 2022	High Tide (ft)	6.63
S6	01 Feb 2022	High Tide Time	837
S6	01 Feb 2022	Low Tide (ft)	1.34
S6	01 Feb 2022	Low Tide Time	232
S6	01 Feb 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Debris; Person/Walker/Jogger-4
S6	08 Feb 2022	Arrive Time	953
S6	08 Feb 2022	Weather	Sunny
S6	08 Feb 2022	Wind Speed (kts)	3.42
S6	08 Feb 2022	Wind Dir	E
S6	08 Feb 2022	Animal Life	
S6	08 Feb 2022	Floatables	None
S6	08 Feb 2022	Water Color	Green
S6	08 Feb 2022	Current Direction	S
S6	08 Feb 2022	Water Temp (C)	17.3
S6	08 Feb 2022	Wave Height Low (ft)	2
S6	08 Feb 2022	High Tide (ft)	4.26
S6	08 Feb 2022	High Tide Time	214
S6	08 Feb 2022	Low Tide (ft)	1.27
S6	08 Feb 2022	Low Tide Time	1010
S6	08 Feb 2022	Comments	Water turbid; Surfer/Paddle boarder-16; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-4
S6	15 Feb 2022	Arrive Time	1106
S6	15 Feb 2022	Weather	Moderate rain

Station	Date	Parameter	Value
S6	15 Feb 2022	Wind Speed (kts)	7.3
S6	15 Feb 2022	Wind Dir	SW
S6	15 Feb 2022	Animal Life	Bird-15
S6	15 Feb 2022	Floatables	Foam
S6	15 Feb 2022	Water Color	Green
S6	15 Feb 2022	Current Direction	N
S6	15 Feb 2022	Water Temp (C)	16.4
S6	15 Feb 2022	Wave Height Low (ft)	1
S6	15 Feb 2022	High Tide (ft)	5.74
S6	15 Feb 2022	High Tide Time	755
S6	15 Feb 2022	Low Tide (ft)	1.61
S6	15 Feb 2022	Low Tide Time	155
S6	15 Feb 2022	Comments	Seagrass; Kelp
S6	22 Feb 2022	Arrive Time	936
S6	22 Feb 2022	Weather	Cloudy
S6	22 Feb 2022	Wind Speed (kts)	10
S6	22 Feb 2022	Wind Dir	W
S6	22 Feb 2022	Animal Life	Bird-35; Pelican-3
S6	22 Feb 2022	Floatables	Dead animals; Foam
S6	22 Feb 2022	Water Color	Green
S6	22 Feb 2022	Current Direction	S
S6	22 Feb 2022	Water Temp (C)	15.4
S6	22 Feb 2022	Wave Height Low (ft)	3
S6	22 Feb 2022	High Tide (ft)	4.69
S6	22 Feb 2022	High Tide Time	17
S6	22 Feb 2022	Low Tide (ft)	0.95
S6	22 Feb 2022	Low Tide Time	723
S6	22 Feb 2022	Comments	Water turbid; Trash-2; Kelp; Seagrass; Debris; Person/Walker/Jogger-2
S8	01 Feb 2022	Arrive Time	1039
S8	01 Feb 2022	Weather	Partly cloudy
S8	01 Feb 2022	Wind Speed (kts)	11.4
S8	01 Feb 2022	Wind Dir	S
S8	01 Feb 2022	Animal Life	
S8	01 Feb 2022	Floatables	Foam
S8	01 Feb 2022	Water Color	Green
S8	01 Feb 2022	Current Direction	N
S8	01 Feb 2022	Water Temp (C)	16.5
S8	01 Feb 2022	Wave Height Low (ft)	1
S8	01 Feb 2022	High Tide (ft)	6.63
S8	01 Feb 2022	High Tide Time	837
S8	01 Feb 2022	Low Tide (ft)	1.34
S8	01 Feb 2022	Low Tide Time	232
S8	01 Feb 2022	Comments	Debris; Seagrass; Kelp
S8	08 Feb 2022	Arrive Time	1108
S8	08 Feb 2022	Weather	Sunny
S8	08 Feb 2022	Wind Speed (kts)	3.9
S8	08 Feb 2022	Wind Dir	NW
S8	08 Feb 2022	Animal Life	Seagull-5
S8	08 Feb 2022	Floatables	None
S8	08 Feb 2022	Water Color	Green
S8	08 Feb 2022	Current Direction	S
S8	08 Feb 2022	Water Temp (C)	21.5
S8	08 Feb 2022	Wave Height Low (ft)	1
S8	08 Feb 2022	High Tide (ft)	4.26
S8	08 Feb 2022	High Tide Time	214
S8	08 Feb 2022	Low Tide (ft)	1.27
S8	08 Feb 2022	Low Tide Time	1010

Station	Date	Parameter	Value
S8	08 Feb 2022	Comments	Water clear; Trash-1; Person/Walker/Jogger-1
S8	15 Feb 2022	Arrive Time	830
S8	15 Feb 2022	Weather	Cloudy
S8	15 Feb 2022	Wind Speed (kts)	11.2
S8	15 Feb 2022	Wind Dir	W
S8	15 Feb 2022	Animal Life	Seagull-4
S8	15 Feb 2022	Floatables	Foam
S8	15 Feb 2022	Water Color	Green
S8	15 Feb 2022	Current Direction	N
S8	15 Feb 2022	Water Temp (C)	16
S8	15 Feb 2022	Wave Height Low (ft)	1
S8	15 Feb 2022	High Tide (ft)	5.74
S8	15 Feb 2022	High Tide Time	755
S8	15 Feb 2022	Low Tide (ft)	1.61
S8	15 Feb 2022	Low Tide Time	155
S8	15 Feb 2022	Comments	Kelp; Seagrass
S8	22 Feb 2022	Arrive Time	1021
S8	22 Feb 2022	Weather	Partly cloudy
S8	22 Feb 2022	Wind Speed (kts)	11.6
S8	22 Feb 2022	Wind Dir	W
S8	22 Feb 2022	Animal Life	Bird-31; Seagull-1
S8	22 Feb 2022	Floatables	Foam
S8	22 Feb 2022	Water Color	Green
S8	22 Feb 2022	Current Direction	S
S8	22 Feb 2022	Water Temp (C)	16.1
S8	22 Feb 2022	Wave Height Low (ft)	2
S8	22 Feb 2022	High Tide (ft)	4.69
S8	22 Feb 2022	High Tide Time	17
S8	22 Feb 2022	Low Tide (ft)	0.95
S8	22 Feb 2022	Low Tide Time	723
S8	22 Feb 2022	Comments	Kelp; Seagrass
S9	01 Feb 2022	Arrive Time	1101
S9	01 Feb 2022	Weather	Partly cloudy
S9	01 Feb 2022	Wind Speed (kts)	6.9
S9	01 Feb 2022	Wind Dir	S
S9	01 Feb 2022	Animal Life	Seagull-7
S9	01 Feb 2022	Floatables	Foam
S9	01 Feb 2022	Water Color	Green
S9	01 Feb 2022	Current Direction	N
S9	01 Feb 2022	Water Temp (C)	17.6
S9	01 Feb 2022	Wave Height Low (ft)	1
S9	01 Feb 2022	High Tide (ft)	6.63
S9	01 Feb 2022	High Tide Time	837
S9	01 Feb 2022	Low Tide (ft)	1.34
S9	01 Feb 2022	Low Tide Time	232
S9	01 Feb 2022	Comments	Water turbid; Trash-1; Seagrass; Kelp; Person/Walker/Jogger-4
S9	08 Feb 2022	Arrive Time	1136
S9	08 Feb 2022	Weather	Sunny
S9	08 Feb 2022	Wind Speed (kts)	3.7
S9	08 Feb 2022	Wind Dir	W
S9	08 Feb 2022	Animal Life	Seagull-8
S9	08 Feb 2022	Floatables	Foam
S9	08 Feb 2022	Water Color	Green
S9	08 Feb 2022	Current Direction	S
S9	08 Feb 2022	Water Temp (C)	17.7
S9	08 Feb 2022	Wave Height Low (ft)	1

Station	Date	Parameter	Value
S9	08 Feb 2022	High Tide (ft)	4.26
S9	08 Feb 2022	High Tide Time	214
S9	08 Feb 2022	Low Tide (ft)	1.27
S9	08 Feb 2022	Low Tide Time	1010
S9	08 Feb 2022	Comments	Water clear; Surfer/Paddle boarder-1; Trash-1; Seagrass; Person/Walker/Jogger-14
S9	15 Feb 2022	Arrive Time	800
S9	15 Feb 2022	Weather	Cloudy
S9	15 Feb 2022	Wind Speed (kts)	9.51
S9	15 Feb 2022	Wind Dir	SW
S9	15 Feb 2022	Animal Life	Seagull-2
S9	15 Feb 2022	Floatables	Foam
S9	15 Feb 2022	Water Color	Blue
S9	15 Feb 2022	Current Direction	N
S9	15 Feb 2022	Water Temp (C)	15.5
S9	15 Feb 2022	Wave Height Low (ft)	1
S9	15 Feb 2022	High Tide (ft)	5.74
S9	15 Feb 2022	High Tide Time	755
S9	15 Feb 2022	Low Tide (ft)	1.61
S9	15 Feb 2022	Low Tide Time	155
S9	15 Feb 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S9	22 Feb 2022	Arrive Time	1046
S9	22 Feb 2022	Weather	Partly cloudy
S9	22 Feb 2022	Wind Speed (kts)	8.9
S9	22 Feb 2022	Wind Dir	NW
S9	22 Feb 2022	Animal Life	Seagull-6
S9	22 Feb 2022	Floatables	Foam
S9	22 Feb 2022	Water Color	Green
S9	22 Feb 2022	Current Direction	S
S9	22 Feb 2022	Water Temp (C)	15.8
S9	22 Feb 2022	Wave Height Low (ft)	1
S9	22 Feb 2022	High Tide (ft)	4.69
S9	22 Feb 2022	High Tide Time	17
S9	22 Feb 2022	Low Tide (ft)	0.95
S9	22 Feb 2022	Low Tide Time	723
S9	22 Feb 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S10	01 Feb 2022	Arrive Time	922
S10	01 Feb 2022	Weather	Partly cloudy
S10	01 Feb 2022	Wind Speed (kts)	6.7
S10	01 Feb 2022	Wind Dir	S
S10	01 Feb 2022	Animal Life	
S10	01 Feb 2022	Floatables	Foam
S10	01 Feb 2022	Water Color	Green
S10	01 Feb 2022	Current Direction	N
S10	01 Feb 2022	Water Temp (C)	16.2
S10	01 Feb 2022	Wave Height Low (ft)	3
S10	01 Feb 2022	High Tide (ft)	6.63
S10	01 Feb 2022	High Tide Time	837
S10	01 Feb 2022	Low Tide (ft)	1.34
S10	01 Feb 2022	Low Tide Time	232
S10	01 Feb 2022	Comments	Debris
S10	08 Feb 2022	Arrive Time	837
S10	08 Feb 2022	Weather	Sunny
S10	08 Feb 2022	Wind Speed (kts)	6
S10	08 Feb 2022	Wind Dir	NE

Station	Date	Parameter	Value
S10	08 Feb 2022	Animal Life	Bird-35
S10	08 Feb 2022	Floatables	None
S10	08 Feb 2022	Water Color	Green
S10	08 Feb 2022	Current Direction	S
S10	08 Feb 2022	Water Temp (C)	14.6
S10	08 Feb 2022	Wave Height Low (ft)	3
S10	08 Feb 2022	High Tide (ft)	4.26
S10	08 Feb 2022	High Tide Time	214
S10	08 Feb 2022	Low Tide (ft)	1.27
S10	08 Feb 2022	Low Tide Time	1010
S10	08 Feb 2022	Comments	Seagrass
S10	15 Feb 2022	Arrive Time	916
S10	15 Feb 2022	Weather	Drizzle
S10	15 Feb 2022	Wind Speed (kts)	12.2
S10	15 Feb 2022	Wind Dir	S
S10	15 Feb 2022	Animal Life	Bird-30
S10	15 Feb 2022	Floatables	Foam
S10	15 Feb 2022	Water Color	Green
S10	15 Feb 2022	Current Direction	N
S10	15 Feb 2022	Water Temp (C)	16.3
S10	15 Feb 2022	Wave Height Low (ft)	1
S10	15 Feb 2022	High Tide (ft)	5.74
S10	15 Feb 2022	High Tide Time	755
S10	15 Feb 2022	Low Tide (ft)	1.61
S10	15 Feb 2022	Low Tide Time	155
S10	15 Feb 2022	Comments	Seagrass; Kelp; Debris
S10	22 Feb 2022	Arrive Time	824
S10	22 Feb 2022	Weather	Cloudy
S10	22 Feb 2022	Wind Speed (kts)	9
S10	22 Feb 2022	Wind Dir	W
S10	22 Feb 2022	Animal Life	
S10	22 Feb 2022	Floatables	Foam; Film
S10	22 Feb 2022	Water Color	Green
S10	22 Feb 2022	Current Direction	S
S10	22 Feb 2022	Water Temp (C)	14.1
S10	22 Feb 2022	Wave Height Low (ft)	3
S10	22 Feb 2022	High Tide (ft)	4.69
S10	22 Feb 2022	High Tide Time	17
S10	22 Feb 2022	Low Tide (ft)	0.95
S10	22 Feb 2022	Low Tide Time	723
S10	22 Feb 2022	Comments	Kelp; Seagrass
S11	01 Feb 2022	Arrive Time	812
S11	01 Feb 2022	Weather	Cloudy
S11	01 Feb 2022	Wind Speed (kts)	7.1
S11	01 Feb 2022	Wind Dir	E
S11	01 Feb 2022	Animal Life	
S11	01 Feb 2022	Floatables	Foam
S11	01 Feb 2022	Water Color	Green
S11	01 Feb 2022	Current Direction	N
S11	01 Feb 2022	Water Temp (C)	15.3
S11	01 Feb 2022	Wave Height Low (ft)	3
S11	01 Feb 2022	High Tide (ft)	6.63
S11	01 Feb 2022	High Tide Time	837
S11	01 Feb 2022	Low Tide (ft)	1.34
S11	01 Feb 2022	Low Tide Time	232
S11	01 Feb 2022	Comments	Water turbid; Trash-1; Seagrass; Debris; Person/Walker/Jogger-1

Station	Date	Parameter	Value
S11	08 Feb 2022	Arrive Time	946
S11	08 Feb 2022	Weather	Sunny
S11	08 Feb 2022	Wind Speed (kts)	6.1
S11	08 Feb 2022	Wind Dir	E
S11	08 Feb 2022	Animal Life	Bird-10
S11	08 Feb 2022	Floatables	Foam
S11	08 Feb 2022	Water Color	Green
S11	08 Feb 2022	Current Direction	N
S11	08 Feb 2022	Water Temp (C)	18
S11	08 Feb 2022	Wave Height Low (ft)	3
S11	08 Feb 2022	High Tide (ft)	4.26
S11	08 Feb 2022	High Tide Time	214
S11	08 Feb 2022	Low Tide (ft)	1.27
S11	08 Feb 2022	Low Tide Time	1010
S11	08 Feb 2022	Comments	Water clear; Surfer/Paddle boarder-5; Trash-1; Seagrass; Person/Walker/Jogger-1
S11	15 Feb 2022	Arrive Time	1046
S11	15 Feb 2022	Weather	Moderate rain
S11	15 Feb 2022	Wind Speed (kts)	12.8
S11	15 Feb 2022	Wind Dir	S
S11	15 Feb 2022	Animal Life	Pelican-2
S11	15 Feb 2022	Floatables	Foam
S11	15 Feb 2022	Water Color	Green
S11	15 Feb 2022	Current Direction	N
S11	15 Feb 2022	Water Temp (C)	15.8
S11	15 Feb 2022	Wave Height Low (ft)	1
S11	15 Feb 2022	High Tide (ft)	5.74
S11	15 Feb 2022	High Tide Time	755
S11	15 Feb 2022	Low Tide (ft)	1.61
S11	15 Feb 2022	Low Tide Time	155
S11	15 Feb 2022	Comments	Seagrass; Kelp
S11	22 Feb 2022	Arrive Time	930
S11	22 Feb 2022	Weather	Cloudy
S11	22 Feb 2022	Wind Speed (kts)	9.5
S11	22 Feb 2022	Wind Dir	W
S11	22 Feb 2022	Animal Life	
S11	22 Feb 2022	Floatables	None
S11	22 Feb 2022	Water Color	Green
S11	22 Feb 2022	Current Direction	S
S11	22 Feb 2022	Water Temp (C)	15.3
S11	22 Feb 2022	Wave Height Low (ft)	3
S11	22 Feb 2022	High Tide (ft)	4.69
S11	22 Feb 2022	High Tide Time	17
S11	22 Feb 2022	Low Tide (ft)	0.95
S11	22 Feb 2022	Low Tide Time	723
S11	22 Feb 2022	Comments	Kelp; Seagrass
S12	01 Feb 2022	Arrive Time	841
S12	01 Feb 2022	Weather	Cloudy
S12	01 Feb 2022	Wind Speed (kts)	4.8
S12	01 Feb 2022	Wind Dir	E
S12	01 Feb 2022	Animal Life	Bird-1; Dog-1
S12	01 Feb 2022	Floatables	Foam
S12	01 Feb 2022	Water Color	Green
S12	01 Feb 2022	Current Direction	N
S12	01 Feb 2022	Water Temp (C)	15.6
S12	01 Feb 2022	Wave Height Low (ft)	2
S12	01 Feb 2022	High Tide (ft)	6.63
S12	01 Feb 2022	High Tide Time	837

Station	Date	Parameter	Value
S12	01 Feb 2022	Low Tide (ft)	1.34
S12	01 Feb 2022	Low Tide Time	232
S12	01 Feb 2022	Comments	Water turbid; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3
S12	08 Feb 2022	Arrive Time	1010
S12	08 Feb 2022	Weather	Sunny
S12	08 Feb 2022	Wind Speed (kts)	4.6
S12	08 Feb 2022	Wind Dir	NW
S12	08 Feb 2022	Animal Life	Bird-89
S12	08 Feb 2022	Floatables	None
S12	08 Feb 2022	Water Color	Green
S12	08 Feb 2022	Current Direction	S
S12	08 Feb 2022	Water Temp (C)	16
S12	08 Feb 2022	Wave Height Low (ft)	1
S12	08 Feb 2022	High Tide (ft)	4.26
S12	08 Feb 2022	High Tide Time	214
S12	08 Feb 2022	Low Tide (ft)	1.27
S12	08 Feb 2022	Low Tide Time	1010
S12	08 Feb 2022	Comments	Water turbid; Trash-1; Person/Walker/Jogger-5
S12	15 Feb 2022	Arrive Time	1010
S12	15 Feb 2022	Weather	Moderate rain
S12	15 Feb 2022	Wind Speed (kts)	13.9
S12	15 Feb 2022	Wind Dir	S
S12	15 Feb 2022	Animal Life	Seagull-1
S12	15 Feb 2022	Floatables	Foam
S12	15 Feb 2022	Water Color	Green
S12	15 Feb 2022	Current Direction	N
S12	15 Feb 2022	Water Temp (C)	16.4
S12	15 Feb 2022	Wave Height Low (ft)	1
S12	15 Feb 2022	High Tide (ft)	5.74
S12	15 Feb 2022	High Tide Time	755
S12	15 Feb 2022	Low Tide (ft)	1.61
S12	15 Feb 2022	Low Tide Time	155
S12	15 Feb 2022	Comments	Seagrass; Kelp
S12	22 Feb 2022	Arrive Time	950
S12	22 Feb 2022	Weather	Cloudy
S12	22 Feb 2022	Wind Speed (kts)	10.8
S12	22 Feb 2022	Wind Dir	W
S12	22 Feb 2022	Animal Life	Seagull-3
S12	22 Feb 2022	Floatables	Dead animals
S12	22 Feb 2022	Water Color	Green
S12	22 Feb 2022	Current Direction	S
S12	22 Feb 2022	Water Temp (C)	15.5
S12	22 Feb 2022	Wave Height Low (ft)	3
S12	22 Feb 2022	High Tide (ft)	4.69
S12	22 Feb 2022	High Tide Time	17
S12	22 Feb 2022	Low Tide (ft)	0.95
S12	22 Feb 2022	Low Tide Time	723
S12	22 Feb 2022	Comments	Water clear; Trash-1; Kelp; Seagrass; Person/Walker/Jogger-3

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2022	102	159	78	21	5	9	502
02 Feb 2022	102	159	78	21	5	9	502
03 Feb 2022	113	111	52	39	6	14	594
04 Feb 2022	113	111	52	39	6	14	594
05 Feb 2022	113	111	52	39	6	14	594
06 Feb 2022	113	111	52	39	6	14	594
07 Feb 2022	92	50	27	21	5	9	490
08 Feb 2022	92	50	27	21	5	9	490
09 Feb 2022	67	77	34	16	6	14	461
10 Feb 2022	67	77	34	16	6	14	461
11 Feb 2022	67	77	34	16	6	14	461
12 Feb 2022	67	77	34	16	6	14	461
13 Feb 2022	67	77	34	16	6	14	461
14 Feb 2022	67	77	34	16	6	14	461
15 Feb 2022	67	77	34	16	6	14	461
16 Feb 2022	67	77	34	16	6	14	461
17 Feb 2022	54	55	61	12	4	10	267
18 Feb 2022	54	55	61	12	4	10	267
19 Feb 2022	54	55	61	12	4	10	267
20 Feb 2022	54	55	61	12	4	10	267
21 Feb 2022	54	55	61	12	4	10	267
22 Feb 2022	54	55	61	12	4	10	267
23 Feb 2022	38*	33*	76*	23*	5*	18*	191*
24 Feb 2022	38*	33*	76*	23*	5*	18*	191*
25 Feb 2022	42	16	31	12	4	10	415
26 Feb 2022	42	16	31	12	4	10	415
27 Feb 2022	42	16	31	12	4	10	415
28 Feb 2022	42	16	31	12	4	10	415

* 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
07 Feb 2022	IC						
17 Feb 2022	IC	IC	E	IC	IC	IC	IC
25 Feb 2022	IC	IC	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.3

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

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2022	85	61	27	17	7	8	232
02 Feb 2022	85	61	27	17	7	8	232
03 Feb 2022	85	61	27	17	7	8	232
04 Feb 2022	85	61	27	17	7	8	232
05 Feb 2022	85	61	27	17	7	8	232
06 Feb 2022	85	61	27	17	7	8	232
07 Feb 2022	46	32	18	10	3	6	173
08 Feb 2022	46	32	18	10	3	6	173
09 Feb 2022	46	32	18	10	3	6	173
10 Feb 2022	46	32	18	10	3	6	173
11 Feb 2022	46	32	18	10	3	6	173
12 Feb 2022	46	32	18	10	3	6	173
13 Feb 2022	46	32	18	10	3	6	173
14 Feb 2022	46	32	18	10	3	6	173
15 Feb 2022	44	24	15	14	4	8	185
16 Feb 2022	44	24	15	14	4	8	185
17 Feb 2022	45	22	18	16	5	10	115
18 Feb 2022	45	22	18	16	5	10	115
19 Feb 2022	45	22	18	16	5	10	115
20 Feb 2022	45	22	18	16	5	10	115
21 Feb 2022	37	30	22	13	6	14	92
22 Feb 2022	37	30	22	13	6	14	92
23 Feb 2022	37	30	22	13	6	14	92
24 Feb 2022	37	30	22	13	6	14	92
25 Feb 2022	31	19	15	10	5	10	168
26 Feb 2022	31	19	15	10	5	10	168
27 Feb 2022	31	19	15	10	5	10	168
28 Feb 2022	31	19	15	10	5	10	168

* Geometric mean calculated using n<5

Table 3.4

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

Date	I19	I24	I25	I26	I32	I39	I40
February	IC	IC	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

Summary of compliance with the Ocean Plan's 30-day Median standard for total coliform bacteria at the SBOO kelp stations. Data are based on the median of the five most recent samples from each site and depth over the previous 30 days unless otherwise noted (*). Values >70 CFU/100 mL exceed the standard. Median calculated using n<5

Date	2m	6m	11m	2m	6m	11m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	9m	2m	6m	9m
01 Feb 2022	200	600	560	5200	620	400	1200	1100	240	20	200	260	2	20	20	2	20	42	4800	2800	2000
02 Feb 2022	200	600	560	5200	620	400	1200	1100	240	20	200	260	2	20	20	2	20	42	4800	2800	2000
03 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	131	20	131	20	131	9400	1740
04 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	131	20	131	20	131	9400	1740
05 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	131	20	131	20	131	9400	1740
06 Feb 2022	110	410	380	2980	420	390	920	650	220	250	310	330	2	20	131	20	131	20	131	9400	1740
07 Feb 2022	20	220	420	760	220	380	640	200	200	200	260	2	20	20	2	20	42	4800	2000	680	
08 Feb 2022	20	220	420	760	220	380	640	200	200	200	260	2	20	20	2	20	42	4800	2000	680	
09 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
10 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
11 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
12 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
13 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
14 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
15 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
16 Feb 2022	20	170	310	2980	420	390	920	570	180	241	211	131	2	11	20	131	11	111	7700	1340	680
17 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
18 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
19 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
20 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
21 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
22 Feb 2022	20	170	310	580	500	280	1700	2250	1200	9	191	271	2	11	20	131	7	1600	2700	560	
23 Feb 2022	20*	220*	420*	400*	380*	180*	2200*	3400*	2200*	16*	380*	540*	2*	20*	20*	260*	140*	12*	1400*	2000*	440*
24 Feb 2022	20*	220*	420*	400*	380*	180*	2200*	3400*	2200*	16*	380*	540*	2*	20*	20*	260*	140*	12*	1400*	2000*	440*
25 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	7	1600	2700	560	
26 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	7	1600	2700	560	
27 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	7	1600	2700	560	
28 Feb 2022	40	310	340	210	193	92	1101	1701	1101	9	191	271	2	11	11	131	7	1600	2700	560	

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
February	E	E	E	E	E	IC	E	E	E	IC	E	E	IC	E	IC	E	IC	IC	E	E	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (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
I19	07 Feb 2022	1053	2	<20	<2	<2	14.3	68.58	7.6	33.44	8.1
I19	07 Feb 2022	1053	6	80e	18e	14e	14.1	63.87	7.1	33.43	8.0
I19	07 Feb 2022	1053	11	420	100e	66	14.0	54.58	7.7	33.44	8.0
I19	17 Feb 2022	1103	2	60e	10e	18e	15.3	70.14	8.8	33.44	8.1
I19	17 Feb 2022	1103	6	600e	74	54	15.2	68.92	8.8	33.44	8.1
I19	17 Feb 2022	1103	11	500	60	70	15.1	68.99	8.7	33.44	8.1
I19	25 Feb 2022	1034	2	3000e	110	24e	14.5	70.46	7.7	33.47	8.1
I19	25 Feb 2022	1034	6	400e	56	14e	13.7	74.77	6.3	33.45	8.0
I19	25 Feb 2022	1034	11	260e	10e	4e	13.6	70.58	6.2	33.45	8.0
I24	07 Feb 2022	1114	2	<2	<2	<2	14.6	73.41	7.9	33.47	8.1
I24	07 Feb 2022	1114	6	<2	<2	<2	14.5	65.87	7.8	33.47	8.1
I24	07 Feb 2022	1114	11	<2	<2	<2	14.5	68.24	7.6	33.45	8.1
I24	17 Feb 2022	1124	2	400	56	14e	15.5	68.01	8.9	33.40	8.2
I24	17 Feb 2022	1124	6	380e	52	12e	15.1	69.64	8.7	33.43	8.1
I24	17 Feb 2022	1124	11	180e	8e	16e	15.1	66.48	8.6	33.43	8.1
I24	25 Feb 2022	1055	2	20e	<2	<2	14.8	72.90	7.8	33.39	8.1
I24	25 Feb 2022	1055	6	6e	<2	<2	14.4	72.37	7.9	33.49	8.1
I24	25 Feb 2022	1055	11	4e	<2	<2	14.3	72.76	7.8	33.49	8.1
I25	07 Feb 2022	1120	2	<2	<2	<2	14.6	75.39	7.9	33.46	8.1
I25	07 Feb 2022	1120	6	<2	<2	<2	14.2	74.00	7.4	33.45	8.0
I25	07 Feb 2022	1120	9	<2	<2	<2	14.2	72.43	7.3	33.43	8.0
I25	17 Feb 2022	1130	2	6600	240e	14e	15.4	66.77	8.9	33.38	8.2
I25	17 Feb 2022	1130	6	8800	520	100	15.1	68.49	8.6	33.42	8.1
I25	17 Feb 2022	1130	9	4000	320e	54	15.1	69.41	8.4	33.43	8.1
I25	25 Feb 2022	1111	2	2e	<2	<2	14.6	73.52	7.9	33.50	8.1
I25	25 Feb 2022	1111	6	<2	<2	2e	14.4	72.84	7.9	33.49	8.1
I25	25 Feb 2022	1111	9	<2	<2	<2	14.4	73.08	7.9	33.49	8.1
I26	07 Feb 2022	1129	2	<2	<2	<2	14.6	75.44	8.0	33.47	8.1
I26	07 Feb 2022	1129	6	<2	2e	<2	14.3	75.11	7.6	33.46	8.1
I26	07 Feb 2022	1129	9	<2	<2	<2	14.0	72.98	7.0	33.42	8.0
I26	17 Feb 2022	1141	2	16e	6e	<2	15.4	67.93	8.5	33.41	8.1
I26	17 Feb 2022	1141	6	380e	32e	32e	15.1	66.09	8.4	33.41	8.1
I26	17 Feb 2022	1141	9	540	40	38e	15.1	67.24	8.1	33.41	8.1
I26	25 Feb 2022	1127	2	<2	<2	<2	14.6	74.99	7.8	33.49	8.1
I26	25 Feb 2022	1127	6	<2	<2	<2	14.2	73.75	6.8	33.47	8.1
I26	25 Feb 2022	1127	9	2e	<2	<2	14.1	73.26	6.7	33.47	8.0
I32	07 Feb 2022	1142	2	<2	<2	<2	14.6	68.01	7.9	33.48	8.1
I32	07 Feb 2022	1142	6	<2	<2	<2	13.9	55.82	6.6	33.41	8.0
I32	07 Feb 2022	1142	9	2e	<2	2e	13.9	63.44	6.8	33.41	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	Temp	XMS	DO	Sal	pH
I32	17 Feb 2022	1152	2	12e	6e	4e	15.5	69.32	8.7	33.42	8.1
I32	17 Feb 2022	1152	6	400	70	38e	15.1	65.35	8.5	33.42	8.1
I32	17 Feb 2022	1152	9	160e	24e	28e	15.1	64.66	8.4	33.43	8.1
I32	25 Feb 2022	1139	2	<2	<2	<2	14.6	73.34	8.0	33.50	8.1
I32	25 Feb 2022	1139	6	2e	<2	<2	14.3	69.14	7.9	33.49	8.1
I32	25 Feb 2022	1139	9	<2	<2	<2	14.2	62.68	7.9	33.50	8.1
I39	07 Feb 2022	1031	2	<2	<2	<2	14.6	81.14	7.7	33.45	8.1
I39	07 Feb 2022	1031	12	<2	<2	<2	13.8	84.06	6.8	33.41	8.0
I39	07 Feb 2022	1031	18	<2	<2	<2	13.3	83.01	6.3	33.42	7.9
I39	17 Feb 2022	1041	2	3800e	120e	72	15.2	64.49	8.8	33.30	8.1
I39	17 Feb 2022	1041	12	140e	8e	20e	15.1	78.42	8.1	33.47	8.1
I39	17 Feb 2022	1041	18	12e	<2	<2	14.9	76.45	7.5	33.45	8.1
I39	25 Feb 2022	1010	2	<2	<2	<2	14.3	74.27	7.8	33.49	8.1
I39	25 Feb 2022	1010	12	<2	<2	<2	14.1	79.22	7.4	33.47	8.1
I39	25 Feb 2022	1010	18	<2	<2	<2	13.6	80.73	6.5	33.46	8.0
I40	07 Feb 2022	1105	2	24e	4e	<2	14.6	68.45	7.9	33.48	8.1
I40	07 Feb 2022	1105	6	2000e	340e	60e	14.3	61.42	7.5	33.46	8.1
I40	07 Feb 2022	1105	9	400e	340e	200e	14.2	45.80	7.4	33.45	8.0
I40	17 Feb 2022	1115	2	1800e	200e	2e	15.4	63.00	8.6	33.42	8.1
I40	17 Feb 2022	1115	6	3400e	110	8e	15.2	63.83	8.6	33.43	8.1
I40	17 Feb 2022	1115	9	440	42	22e	15.2	63.35	8.4	33.43	8.1
I40	25 Feb 2022	1046	2	>16000	>12000	10000	14.3	62.83	7.9	33.39	8.1
I40	25 Feb 2022	1046	6	8000	300e	54	14.2	69.11	7.9	33.50	8.1
I40	25 Feb 2022	1046	9	8600	520	90	13.8	64.47	6.2	33.47	8.0

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	07 Feb 2022	Depth (m)	11
I19	07 Feb 2022	Arrive Time	1053
I19	07 Feb 2022	Depart Time	1057
I19	07 Feb 2022	Air Temp (C)	17
I19	07 Feb 2022	Weather	Clear
I19	07 Feb 2022	Visibility (mi)	18
I19	07 Feb 2022	Wind Speed (kts)	9.1
I19	07 Feb 2022	Wind Dir	N
I19	07 Feb 2022	Water Color	Green
I19	07 Feb 2022	Wave Ht Low (ft)	3
I19	07 Feb 2022	Wave Period (sec)	14
I19	07 Feb 2022	Sea State	Calm
I19	07 Feb 2022	High Tide (ft)	4.31
I19	07 Feb 2022	High Tide Time	918
I19	07 Feb 2022	Low Tide (ft)	1.55
I19	07 Feb 2022	Low Tide Time	1618
I19	07 Feb 2022	Comments	none
I19	17 Feb 2022	Depth (m)	11
I19	17 Feb 2022	Arrive Time	1103
I19	17 Feb 2022	Depart Time	1108
I19	17 Feb 2022	Air Temp (C)	14.4
I19	17 Feb 2022	Weather	Clear
I19	17 Feb 2022	Visibility (mi)	10
I19	17 Feb 2022	Wind Speed (kts)	7.6
I19	17 Feb 2022	Wind Dir	NW
I19	17 Feb 2022	Water Color	Blueish-Green
I19	17 Feb 2022	Wave Ht Low (ft)	4
I19	17 Feb 2022	Wave Period (sec)	20
I19	17 Feb 2022	Sea State	Wind Ripples
I19	17 Feb 2022	High Tide (ft)	5.68
I19	17 Feb 2022	High Tide Time	1700
I19	17 Feb 2022	Low Tide (ft)	-0.71
I19	17 Feb 2022	Low Tide Time	2354
I19	17 Feb 2022	Comments	none
I19	25 Feb 2022	Depth (m)	10
I19	25 Feb 2022	Arrive Time	1034
I19	25 Feb 2022	Depart Time	1038
I19	25 Feb 2022	Air Temp (C)	12.2
I19	25 Feb 2022	Weather	Clear
I19	25 Feb 2022	Visibility (mi)	15
I19	25 Feb 2022	Wind Speed (kts)	3.1
I19	25 Feb 2022	Wind Dir	N
I19	25 Feb 2022	Water Color	Green
I19	25 Feb 2022	Wave Ht Low (ft)	3
I19	25 Feb 2022	Wave Period (sec)	12
I19	25 Feb 2022	Sea State	Light Chop
I19	25 Feb 2022	High Tide (ft)	5.04
I19	25 Feb 2022	High Tide Time	1200
I19	25 Feb 2022	Low Tide (ft)	-0.49
I19	25 Feb 2022	Low Tide Time	1954
I19	25 Feb 2022	Comments	none
I24	07 Feb 2022	Depth (m)	9
I24	07 Feb 2022	Arrive Time	1114

Station	Date	Parameter	Value
I24	07 Feb 2022	Depart Time	1118
I24	07 Feb 2022	Air Temp (C)	16.8
I24	07 Feb 2022	Weather	Clear
I24	07 Feb 2022	Visibility (mi)	18
I24	07 Feb 2022	Wind Speed (kts)	15.9
I24	07 Feb 2022	Wind Dir	NW
I24	07 Feb 2022	Water Color	Green
I24	07 Feb 2022	Wave Ht Low (ft)	3
I24	07 Feb 2022	Wave Period (sec)	14
I24	07 Feb 2022	Sea State	Calm
I24	07 Feb 2022	High Tide (ft)	4.31
I24	07 Feb 2022	High Tide Time	918
I24	07 Feb 2022	Low Tide (ft)	1.55
I24	07 Feb 2022	Low Tide Time	1618
I24	07 Feb 2022	Comments	none
I24	17 Feb 2022	Depth (m)	10
I24	17 Feb 2022	Arrive Time	1124
I24	17 Feb 2022	Depart Time	1127
I24	17 Feb 2022	Air Temp (C)	14.4
I24	17 Feb 2022	Weather	Clear
I24	17 Feb 2022	Visibility (mi)	10
I24	17 Feb 2022	Wind Speed (kts)	9.7
I24	17 Feb 2022	Wind Dir	NW
I24	17 Feb 2022	Water Color	Blueish-Green
I24	17 Feb 2022	Wave Ht Low (ft)	4
I24	17 Feb 2022	Wave Period (sec)	20
I24	17 Feb 2022	Sea State	Wind Ripples
I24	17 Feb 2022	High Tide (ft)	5.68
I24	17 Feb 2022	High Tide Time	1700
I24	17 Feb 2022	Low Tide (ft)	-0.71
I24	17 Feb 2022	Low Tide Time	2354
I24	17 Feb 2022	Comments	none
I24	25 Feb 2022	Depth (m)	8
I24	25 Feb 2022	Arrive Time	1055
I24	25 Feb 2022	Depart Time	1110
I24	25 Feb 2022	Air Temp (C)	12
I24	25 Feb 2022	Weather	Clear
I24	25 Feb 2022	Visibility (mi)	15
I24	25 Feb 2022	Wind Speed (kts)	1.5
I24	25 Feb 2022	Wind Dir	NW
I24	25 Feb 2022	Water Color	Green
I24	25 Feb 2022	Wave Ht Low (ft)	3
I24	25 Feb 2022	Wave Period (sec)	12
I24	25 Feb 2022	Sea State	Light Chop
I24	25 Feb 2022	High Tide (ft)	5.04
I24	25 Feb 2022	High Tide Time	1200
I24	25 Feb 2022	Low Tide (ft)	-0.49
I24	25 Feb 2022	Low Tide Time	1954
I24	25 Feb 2022	Comments	none
I25	07 Feb 2022	Depth (m)	9
I25	07 Feb 2022	Arrive Time	1120
I25	07 Feb 2022	Depart Time	1126
I25	07 Feb 2022	Air Temp (C)	16.8
I25	07 Feb 2022	Weather	Clear
I25	07 Feb 2022	Visibility (mi)	18
I25	07 Feb 2022	Wind Speed (kts)	15.2
I25	07 Feb 2022	Wind Dir	NW
I25	07 Feb 2022	Water Color	Green

Station	Date	Parameter	Value
I25	07 Feb 2022	Wave Ht Low (ft)	3
I25	07 Feb 2022	Wave Period (sec)	14
I25	07 Feb 2022	Sea State	Calm
I25	07 Feb 2022	High Tide (ft)	4.31
I25	07 Feb 2022	High Tide Time	918
I25	07 Feb 2022	Low Tide (ft)	1.55
I25	07 Feb 2022	Low Tide Time	1618
I25	07 Feb 2022	Comments	none
I25	17 Feb 2022	Depth (m)	9
I25	17 Feb 2022	Arrive Time	1130
I25	17 Feb 2022	Depart Time	1134
I25	17 Feb 2022	Air Temp (C)	14.6
I25	17 Feb 2022	Weather	Clear
I25	17 Feb 2022	Visibility (mi)	10
I25	17 Feb 2022	Wind Speed (kts)	7.3
I25	17 Feb 2022	Wind Dir	NW
I25	17 Feb 2022	Water Color	Blueish-Green
I25	17 Feb 2022	Wave Ht Low (ft)	4
I25	17 Feb 2022	Wave Period (sec)	20
I25	17 Feb 2022	Sea State	Wind Ripples
I25	17 Feb 2022	High Tide (ft)	5.68
I25	17 Feb 2022	High Tide Time	1700
I25	17 Feb 2022	Low Tide (ft)	-0.71
I25	17 Feb 2022	Low Tide Time	2354
I25	17 Feb 2022	Comments	none
I25	25 Feb 2022	Depth (m)	8
I25	25 Feb 2022	Arrive Time	1111
I25	25 Feb 2022	Depart Time	1121
I25	25 Feb 2022	Air Temp (C)	12.1
I25	25 Feb 2022	Weather	Clear
I25	25 Feb 2022	Visibility (mi)	15
I25	25 Feb 2022	Wind Speed (kts)	5.1
I25	25 Feb 2022	Wind Dir	NW
I25	25 Feb 2022	Water Color	Green
I25	25 Feb 2022	Wave Ht Low (ft)	3
I25	25 Feb 2022	Wave Period (sec)	12
I25	25 Feb 2022	Sea State	Light Chop
I25	25 Feb 2022	High Tide (ft)	5.04
I25	25 Feb 2022	High Tide Time	1200
I25	25 Feb 2022	Low Tide (ft)	-0.49
I25	25 Feb 2022	Low Tide Time	1954
I25	25 Feb 2022	Comments	9m depth bin missing due to low tide; Multiple attempts made
I26	07 Feb 2022	Depth (m)	9
I26	07 Feb 2022	Arrive Time	1129
I26	07 Feb 2022	Depart Time	1133
I26	07 Feb 2022	Air Temp (C)	16.7
I26	07 Feb 2022	Weather	Clear
I26	07 Feb 2022	Visibility (mi)	18
I26	07 Feb 2022	Wind Speed (kts)	10.1
I26	07 Feb 2022	Wind Dir	NW
I26	07 Feb 2022	Water Color	Green
I26	07 Feb 2022	Wave Ht Low (ft)	3
I26	07 Feb 2022	Wave Period (sec)	14
I26	07 Feb 2022	Sea State	Calm
I26	07 Feb 2022	High Tide (ft)	4.31
I26	07 Feb 2022	High Tide Time	918
I26	07 Feb 2022	Low Tide (ft)	1.55
I26	07 Feb 2022	Low Tide Time	1618

Station	Date	Parameter	Value
I26	07 Feb 2022	Comments	none
I26	17 Feb 2022	Depth (m)	10
I26	17 Feb 2022	Arrive Time	1141
I26	17 Feb 2022	Depart Time	1145
I26	17 Feb 2022	Air Temp (C)	14.7
I26	17 Feb 2022	Weather	Clear
I26	17 Feb 2022	Visibility (mi)	10
I26	17 Feb 2022	Wind Speed (kts)	8.1
I26	17 Feb 2022	Wind Dir	N
I26	17 Feb 2022	Water Color	Blueish-Green
I26	17 Feb 2022	Wave Ht Low (ft)	4
I26	17 Feb 2022	Wave Period (sec)	20
I26	17 Feb 2022	Sea State	Wind Ripples
I26	17 Feb 2022	High Tide (ft)	5.68
I26	17 Feb 2022	High Tide Time	1700
I26	17 Feb 2022	Low Tide (ft)	-0.71
I26	17 Feb 2022	Low Tide Time	2354
I26	17 Feb 2022	Comments	none
I26	25 Feb 2022	Depth (m)	8
I26	25 Feb 2022	Arrive Time	1127
I26	25 Feb 2022	Depart Time	1134
I26	25 Feb 2022	Air Temp (C)	12.1
I26	25 Feb 2022	Weather	Clear
I26	25 Feb 2022	Visibility (mi)	15
I26	25 Feb 2022	Wind Speed (kts)	3.3
I26	25 Feb 2022	Wind Dir	NW
I26	25 Feb 2022	Water Color	Green
I26	25 Feb 2022	Wave Ht Low (ft)	3
I26	25 Feb 2022	Wave Period (sec)	12
I26	25 Feb 2022	Sea State	Light Chop
I26	25 Feb 2022	High Tide (ft)	5.04
I26	25 Feb 2022	High Tide Time	1200
I26	25 Feb 2022	Low Tide (ft)	-0.49
I26	25 Feb 2022	Low Tide Time	1954
I26	25 Feb 2022	Comments	9m depth bin missing due to low tide; Multiple attempts made
I32	07 Feb 2022	Depth (m)	10
I32	07 Feb 2022	Arrive Time	1142
I32	07 Feb 2022	Depart Time	1148
I32	07 Feb 2022	Air Temp (C)	17.3
I32	07 Feb 2022	Weather	Clear
I32	07 Feb 2022	Visibility (mi)	18
I32	07 Feb 2022	Wind Speed (kts)	6.9
I32	07 Feb 2022	Wind Dir	NW
I32	07 Feb 2022	Water Color	Green
I32	07 Feb 2022	Wave Ht Low (ft)	3
I32	07 Feb 2022	Wave Period (sec)	14
I32	07 Feb 2022	Sea State	Calm
I32	07 Feb 2022	High Tide (ft)	4.31
I32	07 Feb 2022	High Tide Time	918
I32	07 Feb 2022	Low Tide (ft)	1.55
I32	07 Feb 2022	Low Tide Time	1618
I32	07 Feb 2022	Comments	none
I32	17 Feb 2022	Depth (m)	10
I32	17 Feb 2022	Arrive Time	1154
I32	17 Feb 2022	Depart Time	1200
I32	17 Feb 2022	Air Temp (C)	15.2
I32	17 Feb 2022	Weather	Clear

Station	Date	Parameter	Value
I32	17 Feb 2022	Visibility (mi)	10
I32	17 Feb 2022	Wind Speed (kts)	10.9
I32	17 Feb 2022	Wind Dir	NW
I32	17 Feb 2022	Water Color	Blueish-Green
I32	17 Feb 2022	Wave Ht Low (ft)	4
I32	17 Feb 2022	Wave Period (sec)	20
I32	17 Feb 2022	Sea State	Wind Ripples
I32	17 Feb 2022	High Tide (ft)	5.68
I32	17 Feb 2022	High Tide Time	1700
I32	17 Feb 2022	Low Tide (ft)	-0.71
I32	17 Feb 2022	Low Tide Time	2354
I32	17 Feb 2022	Comments	none
I32	25 Feb 2022	Depth (m)	10
I32	25 Feb 2022	Arrive Time	1139
I32	25 Feb 2022	Depart Time	1142
I32	25 Feb 2022	Air Temp (C)	12.2
I32	25 Feb 2022	Weather	Clear
I32	25 Feb 2022	Visibility (mi)	15
I32	25 Feb 2022	Wind Speed (kts)	7
I32	25 Feb 2022	Wind Dir	NW
I32	25 Feb 2022	Water Color	Green
I32	25 Feb 2022	Wave Ht Low (ft)	3
I32	25 Feb 2022	Wave Period (sec)	12
I32	25 Feb 2022	Sea State	Light Chop
I32	25 Feb 2022	High Tide (ft)	5.04
I32	25 Feb 2022	High Tide Time	1200
I32	25 Feb 2022	Low Tide (ft)	-0.49
I32	25 Feb 2022	Low Tide Time	1954
I32	25 Feb 2022	Comments	none
I39	07 Feb 2022	Depth (m)	19
I39	07 Feb 2022	Arrive Time	1031
I39	07 Feb 2022	Depart Time	1035
I39	07 Feb 2022	Air Temp (C)	16.3
I39	07 Feb 2022	Weather	Clear
I39	07 Feb 2022	Visibility (mi)	18
I39	07 Feb 2022	Wind Speed (kts)	13
I39	07 Feb 2022	Wind Dir	NW
I39	07 Feb 2022	Water Color	Blueish-Green
I39	07 Feb 2022	Wave Ht Low (ft)	3
I39	07 Feb 2022	Wave Period (sec)	14
I39	07 Feb 2022	Sea State	Calm
I39	07 Feb 2022	High Tide (ft)	4.31
I39	07 Feb 2022	High Tide Time	918
I39	07 Feb 2022	Low Tide (ft)	1.55
I39	07 Feb 2022	Low Tide Time	1618
I39	07 Feb 2022	Comments	none
I39	17 Feb 2022	Depth (m)	19
I39	17 Feb 2022	Arrive Time	1041
I39	17 Feb 2022	Depart Time	1047
I39	17 Feb 2022	Air Temp (C)	14
I39	17 Feb 2022	Weather	Clear
I39	17 Feb 2022	Visibility (mi)	10
I39	17 Feb 2022	Wind Speed (kts)	3.6
I39	17 Feb 2022	Wind Dir	NW
I39	17 Feb 2022	Water Color	Blueish-Green
I39	17 Feb 2022	Wave Ht Low (ft)	4
I39	17 Feb 2022	Wave Period (sec)	20
I39	17 Feb 2022	Sea State	Wind Ripples

Station	Date	Parameter	Value
I39	17 Feb 2022	High Tide (ft)	5.68
I39	17 Feb 2022	High Tide Time	1700
I39	17 Feb 2022	Low Tide (ft)	-0.71
I39	17 Feb 2022	Low Tide Time	2354
I39	17 Feb 2022	Comments	none
I39	25 Feb 2022	Depth (m)	18
I39	25 Feb 2022	Arrive Time	1010
I39	25 Feb 2022	Depart Time	1014
I39	25 Feb 2022	Air Temp (C)	11.3
I39	25 Feb 2022	Weather	Clear
I39	25 Feb 2022	Visibility (mi)	15
I39	25 Feb 2022	Wind Speed (kts)	2
I39	25 Feb 2022	Wind Dir	E
I39	25 Feb 2022	Water Color	Green
I39	25 Feb 2022	Wave Ht Low (ft)	3
I39	25 Feb 2022	Wave Period (sec)	12
I39	25 Feb 2022	Sea State	Light Chop
I39	25 Feb 2022	High Tide (ft)	5.04
I39	25 Feb 2022	High Tide Time	1200
I39	25 Feb 2022	Low Tide (ft)	-0.49
I39	25 Feb 2022	Low Tide Time	1954
I39	25 Feb 2022	Comments	none
I40	07 Feb 2022	Depth (m)	10
I40	07 Feb 2022	Arrive Time	1105
I40	07 Feb 2022	Depart Time	1110
I40	07 Feb 2022	Air Temp (C)	16.4
I40	07 Feb 2022	Weather	Clear
I40	07 Feb 2022	Visibility (mi)	18
I40	07 Feb 2022	Wind Speed (kts)	9
I40	07 Feb 2022	Wind Dir	NW
I40	07 Feb 2022	Water Color	Green
I40	07 Feb 2022	Wave Ht Low (ft)	3
I40	07 Feb 2022	Wave Period (sec)	14
I40	07 Feb 2022	Sea State	Calm
I40	07 Feb 2022	High Tide (ft)	4.31
I40	07 Feb 2022	High Tide Time	918
I40	07 Feb 2022	Low Tide (ft)	1.55
I40	07 Feb 2022	Low Tide Time	1618
I40	07 Feb 2022	Comments	none
I40	17 Feb 2022	Depth (m)	10
I40	17 Feb 2022	Arrive Time	1115
I40	17 Feb 2022	Depart Time	1119
I40	17 Feb 2022	Air Temp (C)	14.4
I40	17 Feb 2022	Weather	Clear
I40	17 Feb 2022	Visibility (mi)	10
I40	17 Feb 2022	Wind Speed (kts)	7.3
I40	17 Feb 2022	Wind Dir	N
I40	17 Feb 2022	Water Color	Blueish-Green
I40	17 Feb 2022	Wave Ht Low (ft)	4
I40	17 Feb 2022	Wave Period (sec)	20
I40	17 Feb 2022	Sea State	Wind Ripples
I40	17 Feb 2022	High Tide (ft)	5.68
I40	17 Feb 2022	High Tide Time	1700
I40	17 Feb 2022	Low Tide (ft)	-0.71
I40	17 Feb 2022	Low Tide Time	2354
I40	17 Feb 2022	Comments	none
I40	25 Feb 2022	Depth (m)	9

Station	Date	Parameter	Value
I40	25 Feb 2022	Arrive Time	1046
I40	25 Feb 2022	Depart Time	1050
I40	25 Feb 2022	Air Temp (C)	11.9
I40	25 Feb 2022	Weather	Clear
I40	25 Feb 2022	Visibility (mi)	15
I40	25 Feb 2022	Wind Speed (kts)	2.8
I40	25 Feb 2022	Wind Dir	NW
I40	25 Feb 2022	Water Color	Green
I40	25 Feb 2022	Wave Ht Low (ft)	3
I40	25 Feb 2022	Wave Period (sec)	12
I40	25 Feb 2022	Sea State	Light Chop
I40	25 Feb 2022	High Tide (ft)	5.04
I40	25 Feb 2022	High Tide Time	1200
I40	25 Feb 2022	Low Tide (ft)	-0.49
I40	25 Feb 2022	Low Tide Time	1954
I40	25 Feb 2022	Comments	Freshwater runoff signature in cast

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	07 Feb 2022	1	14.36	69.54	7.7	33.44	8.1	24.9	1.35
	07 Feb 2022	2	14.33	68.58	7.6	33.44	8.1	24.9	1.41
	07 Feb 2022	3	14.23	65.65	7.5	33.44	8.0	24.9	1.69
	07 Feb 2022	4	14.16	66.38	7.4	33.43	8.0	24.9	2.53
	07 Feb 2022	5	14.14	64.72	7.3	33.43	8.0	24.9	3.19
	07 Feb 2022	6	14.10	63.87	7.1	33.43	8.0	25.0	3.26
	07 Feb 2022	7	14.05	60.64	6.8	33.42	8.0	25.0	3.04
	07 Feb 2022	8	14.03	53.76	6.7	33.42	8.0	25.0	3.08
	07 Feb 2022	9	14.02	50.66	7.2	33.43	8.0	25.0	3.50
	07 Feb 2022	10	14.02	54.58	7.7	33.44	8.0	25.0	3.77
I19	17 Feb 2022	1	15.34	70.27	8.8	33.44	8.1	24.7	1.33
	17 Feb 2022	2	15.32	70.14	8.8	33.44	8.1	24.7	1.39
	17 Feb 2022	3	15.28	69.82	8.8	33.44	8.1	24.7	1.61
	17 Feb 2022	4	15.21	69.24	8.8	33.44	8.1	24.7	2.25
	17 Feb 2022	5	15.16	68.91	8.8	33.43	8.1	24.7	3.12
	17 Feb 2022	6	15.15	68.92	8.8	33.44	8.1	24.7	3.62
	17 Feb 2022	7	15.15	69.11	8.8	33.44	8.1	24.7	4.18
	17 Feb 2022	8	15.15	69.45	8.8	33.44	8.1	24.7	4.58
	17 Feb 2022	9	15.15	69.48	8.8	33.44	8.1	24.7	4.93
	17 Feb 2022	10	15.14	68.99	8.7	33.44	8.1	24.7	4.68
I19	25 Feb 2022	1	14.51	70.52	7.7	33.46	8.1	24.9	1.41
	25 Feb 2022	2	14.47	70.46	7.7	33.47	8.1	24.9	1.52
	25 Feb 2022	3	14.37	69.24	7.6	33.47	8.1	24.9	2.29
	25 Feb 2022	4	14.18	68.06	7.0	33.47	8.1	25.0	3.06
	25 Feb 2022	5	13.74	70.90	6.4	33.46	8.0	25.1	2.82
	25 Feb 2022	6	13.71	74.77	6.3	33.45	8.0	25.1	2.58
	25 Feb 2022	7	13.64	76.14	6.3	33.45	8.0	25.1	2.66
	25 Feb 2022	8	13.63	75.22	6.3	33.45	8.0	25.1	2.88
	25 Feb 2022	9	13.64	73.10	6.3	33.45	8.0	25.1	3.03
	25 Feb 2022	10	13.64	70.58	6.2	33.45	8.0	25.1	3.17
I24	07 Feb 2022	1	14.65	73.39	7.9	33.47	8.1	24.9	1.33
	07 Feb 2022	2	14.64	73.41	7.9	33.47	8.1	24.9	1.35
	07 Feb 2022	3	14.62	73.01	7.8	33.47	8.1	24.9	1.49
	07 Feb 2022	4	14.61	72.52	7.8	33.47	8.1	24.9	1.75
	07 Feb 2022	5	14.53	71.08	7.9	33.47	8.1	24.9	2.65
	07 Feb 2022	6	14.46	65.87	7.8	33.47	8.1	24.9	5.02
	07 Feb 2022	7	14.42	67.04	7.8	33.47	8.1	24.9	6.22
	07 Feb 2022	8	14.41	68.42	7.7	33.47	8.1	24.9	5.66
	07 Feb 2022	9	14.41	68.63	7.6	33.46	8.1	24.9	4.31
	07 Feb 2022	10	14.41	68.59	7.7	33.46	8.1	24.9	3.83
	07 Feb 2022	11	14.47	68.24	7.6	33.45	8.1	24.9	3.66
I24	17 Feb 2022	1	15.46	68.04	8.9	33.40	8.2	24.6	1.56
	17 Feb 2022	2	15.46	68.01	8.9	33.40	8.2	24.6	1.62
	17 Feb 2022	3	15.37	67.86	8.9	33.40	8.2	24.7	1.93
	17 Feb 2022	4	15.16	67.43	8.9	33.41	8.2	24.7	2.40
	17 Feb 2022	5	15.12	69.57	8.7	33.43	8.1	24.7	2.63
	17 Feb 2022	6	15.11	69.64	8.7	33.43	8.1	24.7	3.07
	17 Feb 2022	7	15.10	69.27	8.6	33.43	8.1	24.7	3.47
	17 Feb 2022	8	15.10	69.03	8.6	33.43	8.1	24.7	3.71
	17 Feb 2022	9	15.10	67.97	8.6	33.43	8.1	24.7	3.82
	17 Feb 2022	10	15.10	66.48	8.6	33.43	8.1	24.7	3.80

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	25 Feb 2022	1	14.78	72.01	7.8	33.30	8.1	24.7	1.02
	25 Feb 2022	2	14.81	72.90	7.8	33.39	8.1	24.8	1.06
	25 Feb 2022	3	14.86	73.74	7.8	33.40	8.1	24.8	1.03
	25 Feb 2022	4	14.68	74.22	7.8	33.50	8.1	24.9	1.10
	25 Feb 2022	5	14.46	73.28	7.9	33.49	8.1	24.9	1.49
	25 Feb 2022	6	14.41	72.37	7.9	33.49	8.1	24.9	2.06
	25 Feb 2022	7	14.39	71.93	7.8	33.49	8.1	24.9	2.43
	25 Feb 2022	8	14.38	72.25	7.9	33.49	8.1	24.9	2.58
	25 Feb 2022	9	14.35	72.52	7.8	33.49	8.1	24.9	2.50
	25 Feb 2022	10	14.35	72.76	7.8	33.49	8.1	24.9	2.35
I25	07 Feb 2022	1	14.61	75.61	7.9	33.46	8.1	24.9	1.22
	07 Feb 2022	2	14.60	75.39	7.9	33.46	8.1	24.9	1.23
	07 Feb 2022	3	14.55	75.26	7.8	33.47	8.1	24.9	1.27
	07 Feb 2022	4	14.42	74.54	7.8	33.46	8.1	24.9	1.43
	07 Feb 2022	5	14.35	74.08	7.6	33.46	8.1	24.9	1.73
	07 Feb 2022	6	14.21	74.00	7.4	33.45	8.0	24.9	2.06
	07 Feb 2022	7	14.16	74.31	7.2	33.44	8.0	24.9	2.02
	07 Feb 2022	8	14.13	73.13	7.1	33.43	8.0	24.9	1.98
	07 Feb 2022	9	14.18	72.43	7.3	33.43	8.0	24.9	1.94
	17 Feb 2022	1	15.48	67.31	8.9	33.38	8.1	24.6	1.48
I25	17 Feb 2022	2	15.40	66.77	8.9	33.38	8.2	24.6	1.73
	17 Feb 2022	3	15.19	66.48	8.8	33.40	8.2	24.7	2.27
	17 Feb 2022	4	15.14	66.23	8.8	33.41	8.1	24.7	2.83
	17 Feb 2022	5	15.13	67.34	8.6	33.41	8.1	24.7	3.29
	17 Feb 2022	6	15.13	68.49	8.6	33.42	8.1	24.7	3.72
	17 Feb 2022	7	15.12	69.29	8.5	33.42	8.1	24.7	3.63
	17 Feb 2022	8	15.12	69.57	8.4	33.42	8.1	24.7	3.23
	17 Feb 2022	9	15.12	69.41	8.4	33.43	8.1	24.7	3.13
	25 Feb 2022	1	14.67	73.69	7.9	33.49	8.1	24.9	1.17
	25 Feb 2022	2	14.55	73.52	7.9	33.50	8.1	24.9	1.19
I25	25 Feb 2022	3	14.43	73.15	7.9	33.49	8.1	24.9	1.33
	25 Feb 2022	4	14.40	72.86	7.9	33.49	8.1	24.9	1.57
	25 Feb 2022	5	14.40	72.80	7.9	33.49	8.1	24.9	1.79
	25 Feb 2022	6	14.38	72.84	7.9	33.49	8.1	24.9	2.02
	25 Feb 2022	7	14.38	73.02	7.9	33.49	8.1	24.9	2.20
	25 Feb 2022	8	14.38	73.08	7.9	33.49	8.1	24.9	2.19
	07 Feb 2022	1	14.56	75.40	8.0	33.47	8.1	24.9	1.29
	07 Feb 2022	2	14.55	75.44	8.0	33.47	8.1	24.9	1.28
	07 Feb 2022	3	14.54	75.49	8.0	33.47	8.1	24.9	1.29
	07 Feb 2022	4	14.44	75.24	8.0	33.47	8.1	24.9	1.43
I26	07 Feb 2022	5	14.38	75.03	7.9	33.46	8.1	24.9	1.70
	07 Feb 2022	6	14.29	75.11	7.6	33.46	8.1	24.9	1.99
	07 Feb 2022	7	14.18	75.53	7.3	33.44	8.0	24.9	2.06
	07 Feb 2022	8	14.09	74.92	7.1	33.43	8.0	25.0	1.89
	07 Feb 2022	9	14.04	72.98	7.0	33.42	8.0	25.0	1.80
	17 Feb 2022	1	15.50	68.46	8.4	33.41	8.1	24.6	1.55
	17 Feb 2022	2	15.42	67.93	8.5	33.41	8.1	24.7	1.78
	17 Feb 2022	3	15.19	66.28	8.6	33.42	8.1	24.7	3.02
	17 Feb 2022	4	15.17	63.37	8.6	33.41	8.1	24.7	4.23
	17 Feb 2022	5	15.10	64.28	8.4	33.41	8.1	24.7	5.07
I26	17 Feb 2022	6	15.08	66.09	8.4	33.41	8.1	24.7	5.50
	17 Feb 2022	7	15.08	66.54	8.3	33.41	8.1	24.7	5.77
	17 Feb 2022	8	15.07	67.16	8.2	33.41	8.1	24.7	5.46
	17 Feb 2022	9	15.07	67.24	8.1	33.41	8.1	24.7	4.71
	25 Feb 2022	1	14.77	75.24	7.9	33.49	8.1	24.9	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I26	25 Feb 2022	2	14.65	74.99	7.8	33.49	8.1	24.9	1.02
I26	25 Feb 2022	3	14.43	74.14	7.8	33.49	8.1	24.9	1.31
I26	25 Feb 2022	4	14.40	73.11	7.5	33.48	8.1	24.9	1.51
I26	25 Feb 2022	5	14.22	73.27	7.0	33.48	8.1	25.0	1.67
I26	25 Feb 2022	6	14.18	73.75	6.8	33.47	8.1	25.0	1.68
I26	25 Feb 2022	7	14.14	73.39	6.7	33.47	8.0	25.0	1.71
I26	25 Feb 2022	8	14.13	73.26	6.7	33.47	8.0	25.0	1.78
I32	07 Feb 2022	1	14.64	68.03	8.0	33.48	8.1	24.9	1.47
I32	07 Feb 2022	2	14.60	68.01	7.9	33.48	8.1	24.9	1.49
I32	07 Feb 2022	3	14.40	64.98	7.6	33.48	8.1	24.9	1.98
I32	07 Feb 2022	4	14.07	56.43	6.9	33.45	8.0	25.0	2.67
I32	07 Feb 2022	5	13.98	57.12	6.6	33.42	8.0	25.0	3.33
I32	07 Feb 2022	6	13.93	55.82	6.6	33.41	8.0	25.0	3.64
I32	07 Feb 2022	7	13.91	53.07	6.6	33.41	8.0	25.0	3.86
I32	07 Feb 2022	8	13.90	58.55	6.8	33.41	8.0	25.0	3.99
I32	07 Feb 2022	9	13.88	63.44	6.8	33.41	8.0	25.0	3.77
I32	07 Feb 2022	10	13.86	61.79	6.7	33.41	8.0	25.0	3.67
I32	17 Feb 2022	1	15.46	69.53	8.7	33.42	8.1	24.7	1.38
I32	17 Feb 2022	2	15.47	69.32	8.7	33.42	8.1	24.6	1.40
I32	17 Feb 2022	3	15.45	69.38	8.6	33.42	8.1	24.7	1.49
I32	17 Feb 2022	4	15.17	68.26	8.6	33.42	8.1	24.7	2.31
I32	17 Feb 2022	5	15.10	65.57	8.6	33.42	8.1	24.7	3.42
I32	17 Feb 2022	6	15.10	65.35	8.5	33.42	8.1	24.7	4.22
I32	17 Feb 2022	7	15.11	67.04	8.5	33.42	8.1	24.7	4.52
I32	17 Feb 2022	8	15.11	66.75	8.5	33.42	8.1	24.7	4.57
I32	17 Feb 2022	9	15.09	64.66	8.4	33.43	8.1	24.7	4.54
I32	17 Feb 2022	10	15.06	62.49	8.3	33.43	8.1	24.7	4.71
I32	25 Feb 2022	1	14.78	73.11	8.0	33.49	8.1	24.9	1.14
I32	25 Feb 2022	2	14.59	73.34	8.0	33.50	8.1	24.9	1.31
I32	25 Feb 2022	3	14.44	70.70	8.0	33.49	8.1	24.9	2.00
I32	25 Feb 2022	4	14.40	69.22	7.9	33.49	8.1	24.9	2.20
I32	25 Feb 2022	5	14.37	69.84	7.9	33.49	8.1	24.9	2.31
I32	25 Feb 2022	6	14.33	69.14	7.9	33.49	8.1	25.0	2.71
I32	25 Feb 2022	7	14.29	68.87	8.0	33.49	8.1	25.0	3.07
I32	25 Feb 2022	8	14.22	66.54	7.9	33.50	8.1	25.0	3.11
I32	25 Feb 2022	9	14.22	62.68	7.9	33.50	8.1	25.0	3.01
I39	07 Feb 2022	1	14.67	81.35	7.7	33.45	8.1	24.8	1.21
I39	07 Feb 2022	2	14.61	81.14	7.7	33.45	8.1	24.9	1.19
I39	07 Feb 2022	3	14.51	81.13	7.5	33.45	8.1	24.9	1.21
I39	07 Feb 2022	4	14.35	80.74	7.3	33.45	8.0	24.9	1.21
I39	07 Feb 2022	5	14.15	82.27	7.1	33.44	8.0	25.0	1.18
I39	07 Feb 2022	6	13.94	81.44	7.0	33.43	8.0	25.0	1.16
I39	07 Feb 2022	7	13.84	83.04	6.9	33.42	8.0	25.0	1.16
I39	07 Feb 2022	8	13.83	83.56	6.9	33.42	8.0	25.0	1.18
I39	07 Feb 2022	9	13.81	83.69	6.9	33.41	8.0	25.0	1.23
I39	07 Feb 2022	10	13.79	83.96	6.8	33.41	8.0	25.0	1.26
I39	07 Feb 2022	11	13.77	84.08	6.8	33.41	8.0	25.0	1.27
I39	07 Feb 2022	12	13.75	84.06	6.8	33.41	8.0	25.0	1.34
I39	07 Feb 2022	13	13.72	84.06	6.7	33.42	8.0	25.0	1.40
I39	07 Feb 2022	14	13.70	83.94	6.7	33.42	8.0	25.0	1.46
I39	07 Feb 2022	15	13.66	83.92	6.7	33.42	8.0	25.0	1.49
I39	07 Feb 2022	16	13.55	83.93	6.5	33.42	8.0	25.1	1.42
I39	07 Feb 2022	17	13.41	83.40	6.4	33.42	8.0	25.1	1.45
I39	07 Feb 2022	18	13.28	83.01	6.3	33.42	7.9	25.1	1.50
I39	17 Feb 2022	1	15.28	65.61	8.8	33.31	8.1	24.6	1.40
I39	17 Feb 2022	2	15.25	64.49	8.8	33.30	8.1	24.6	1.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	17 Feb 2022	3	15.07	65.00	8.9	33.32	8.1	24.7	2.40
I39	17 Feb 2022	4	15.04	64.50	8.9	33.34	8.1	24.7	3.97
I39	17 Feb 2022	5	15.03	65.01	8.7	33.39	8.1	24.7	5.02
I39	17 Feb 2022	6	15.04	67.69	8.6	33.40	8.1	24.7	4.78
I39	17 Feb 2022	7	15.06	71.81	8.4	33.43	8.1	24.7	3.94
I39	17 Feb 2022	8	15.08	74.34	8.3	33.45	8.1	24.8	3.46
I39	17 Feb 2022	9	15.08	75.69	8.2	33.46	8.1	24.8	3.02
I39	17 Feb 2022	10	15.08	77.16	8.2	33.46	8.1	24.8	2.93
I39	17 Feb 2022	11	15.08	78.06	8.1	33.47	8.1	24.8	2.73
I39	17 Feb 2022	12	15.06	78.42	8.1	33.47	8.1	24.8	2.58
I39	17 Feb 2022	13	15.05	78.56	8.0	33.47	8.1	24.8	2.55
I39	17 Feb 2022	14	15.03	78.48	7.9	33.47	8.1	24.8	2.57
I39	17 Feb 2022	15	14.99	78.11	7.8	33.46	8.1	24.8	2.48
I39	17 Feb 2022	16	14.95	77.69	7.7	33.46	8.1	24.8	2.44
I39	17 Feb 2022	17	14.95	76.75	7.7	33.45	8.1	24.8	2.38
I39	17 Feb 2022	18	14.95	76.45	7.5	33.45	8.1	24.8	2.30
I39	25 Feb 2022	1	14.38	74.74	7.8	33.49	8.1	24.9	1.73
I39	25 Feb 2022	2	14.35	74.27	7.8	33.49	8.1	24.9	2.14
I39	25 Feb 2022	3	14.33	73.35	7.8	33.49	8.1	24.9	2.59
I39	25 Feb 2022	4	14.31	73.51	7.8	33.49	8.1	25.0	2.90
I39	25 Feb 2022	5	14.30	73.62	7.7	33.48	8.1	25.0	3.31
I39	25 Feb 2022	6	14.26	74.48	7.7	33.48	8.1	25.0	3.35
I39	25 Feb 2022	7	14.23	75.06	7.6	33.48	8.1	25.0	3.78
I39	25 Feb 2022	8	14.19	75.73	7.6	33.48	8.1	25.0	3.90
I39	25 Feb 2022	9	14.20	76.01	7.6	33.48	8.1	25.0	3.57
I39	25 Feb 2022	10	14.13	77.27	7.5	33.48	8.1	25.0	3.44
I39	25 Feb 2022	11	14.12	78.50	7.4	33.48	8.1	25.0	3.55
I39	25 Feb 2022	12	14.06	79.22	7.4	33.47	8.1	25.0	3.74
I39	25 Feb 2022	13	14.01	79.61	7.3	33.47	8.1	25.0	3.34
I39	25 Feb 2022	14	13.96	80.04	7.2	33.47	8.1	25.0	3.27
I39	25 Feb 2022	15	13.87	80.39	7.0	33.47	8.1	25.0	3.18
I39	25 Feb 2022	16	13.81	80.52	6.9	33.47	8.0	25.0	2.81
I39	25 Feb 2022	17	13.67	80.60	6.6	33.47	8.0	25.1	2.55
I39	25 Feb 2022	18	13.64	80.73	6.5	33.46	8.0	25.1	2.30
I40	07 Feb 2022	1	14.57	68.58	7.9	33.48	8.1	24.9	1.49
I40	07 Feb 2022	2	14.56	68.45	7.9	33.48	8.1	24.9	1.49
I40	07 Feb 2022	3	14.53	68.24	7.8	33.48	8.1	24.9	1.75
I40	07 Feb 2022	4	14.44	66.63	7.8	33.48	8.1	24.9	2.38
I40	07 Feb 2022	5	14.36	63.81	7.7	33.47	8.1	24.9	2.74
I40	07 Feb 2022	6	14.30	61.42	7.5	33.46	8.1	24.9	2.65
I40	07 Feb 2022	7	14.23	54.91	7.4	33.45	8.0	24.9	2.64
I40	07 Feb 2022	8	14.21	50.73	7.4	33.45	8.0	24.9	2.63
I40	07 Feb 2022	9	14.20	45.80	7.4	33.45	8.0	24.9	2.63
I40	07 Feb 2022	10	14.21	40.13	7.5	33.45	8.0	24.9	2.57
I40	17 Feb 2022	1	15.39	62.95	8.6	33.42	8.1	24.7	1.79
I40	17 Feb 2022	2	15.37	63.00	8.6	33.42	8.1	24.7	1.88
I40	17 Feb 2022	3	15.29	62.94	8.8	33.42	8.1	24.7	2.46
I40	17 Feb 2022	4	15.23	63.78	8.8	33.43	8.1	24.7	3.37
I40	17 Feb 2022	5	15.21	64.44	8.7	33.43	8.1	24.7	4.35
I40	17 Feb 2022	6	15.18	63.83	8.6	33.43	8.1	24.7	5.01
I40	17 Feb 2022	7	15.17	63.89	8.6	33.43	8.1	24.7	5.44
I40	17 Feb 2022	8	15.16	63.95	8.6	33.43	8.1	24.7	5.45
I40	17 Feb 2022	9	15.15	63.35	8.4	33.43	8.1	24.7	5.34
I40	17 Feb 2022	10	15.14	60.67	8.4	33.43	8.1	24.7	5.39
I40	25 Feb 2022	1	14.41	61.00	7.8	32.82	8.1	24.4	1.63
I40	25 Feb 2022	2	14.35	62.83	7.9	33.39	8.1	24.9	1.72
I40	25 Feb 2022	3	14.30	67.06	7.9	33.50	8.1	25.0	1.96

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I40	25 Feb 2022	4	14.27	69.02	7.9	33.50	8.1	25.0	2.28
I40	25 Feb 2022	5	14.21	69.20	7.9	33.51	8.1	25.0	2.53
I40	25 Feb 2022	6	14.19	69.11	7.9	33.50	8.1	25.0	2.65
I40	25 Feb 2022	7	14.09	69.02	8.0	33.51	8.1	25.0	2.65
I40	25 Feb 2022	8	14.03	68.36	7.7	33.50	8.1	25.0	2.68
I40	25 Feb 2022	9	13.75	64.47	6.2	33.47	8.0	25.1	3.25
I40	25 Feb 2022	10	13.68	58.52	5.7	33.46	8.0	25.1	3.85

NA = not available

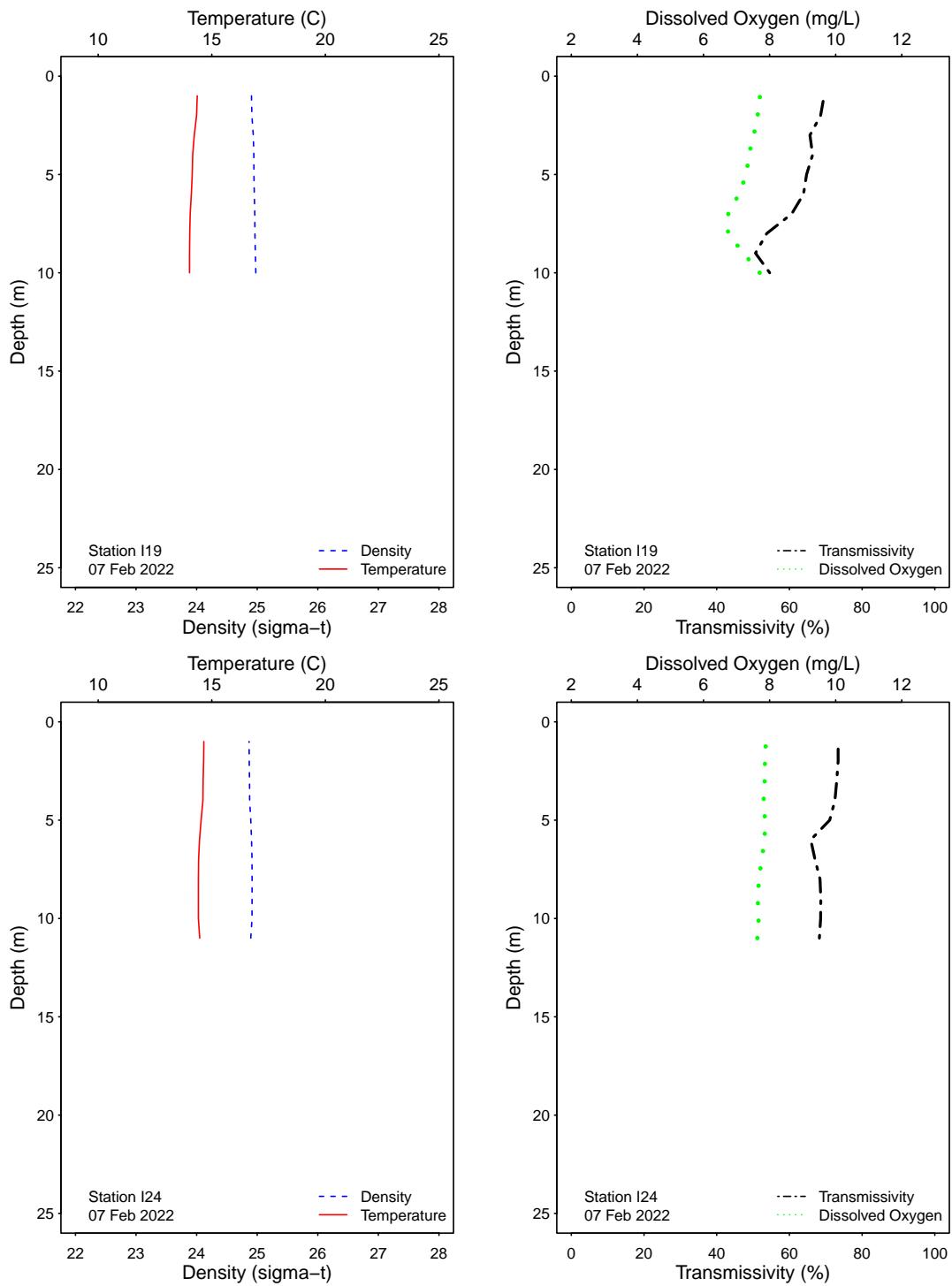


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

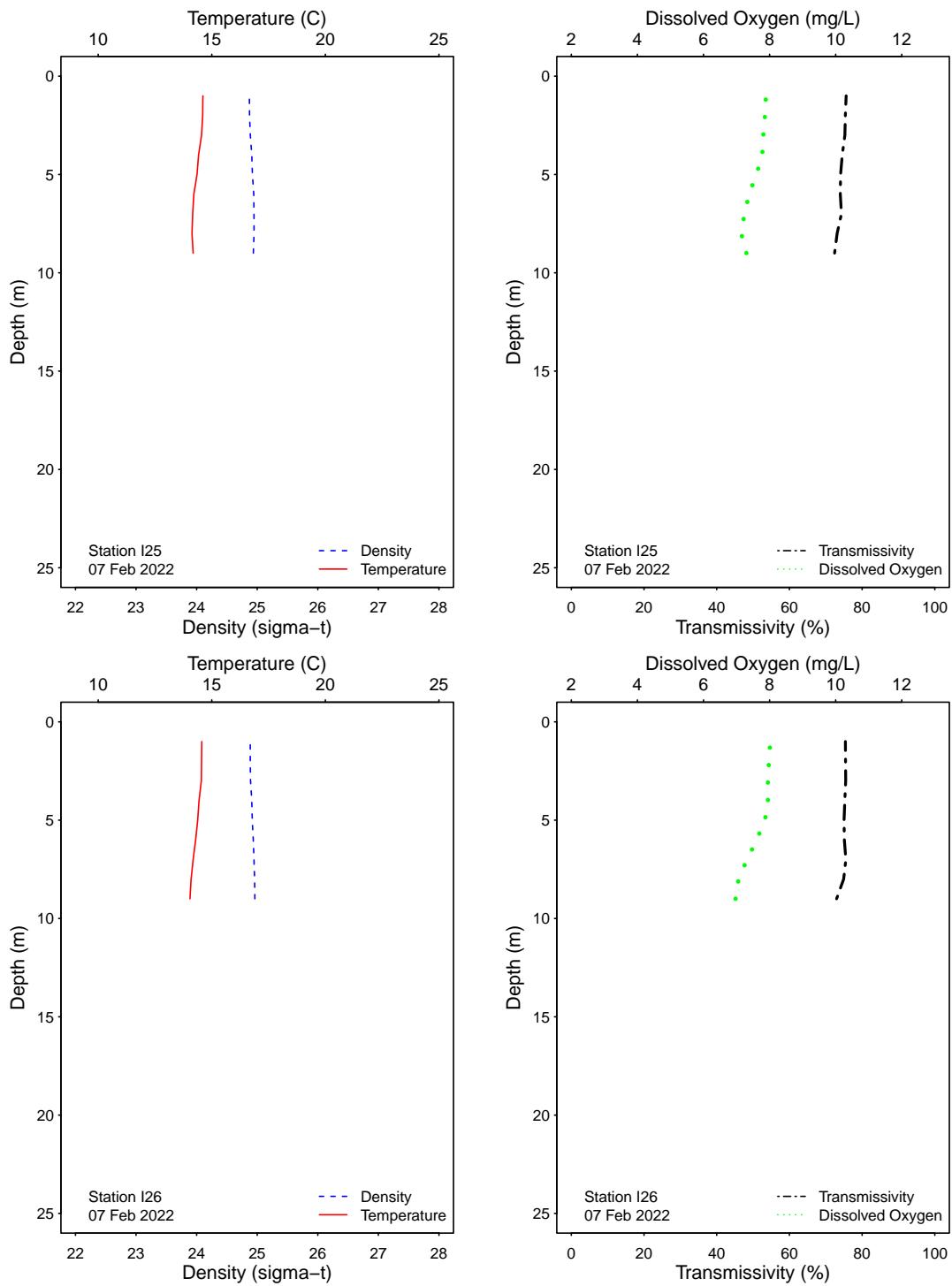


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

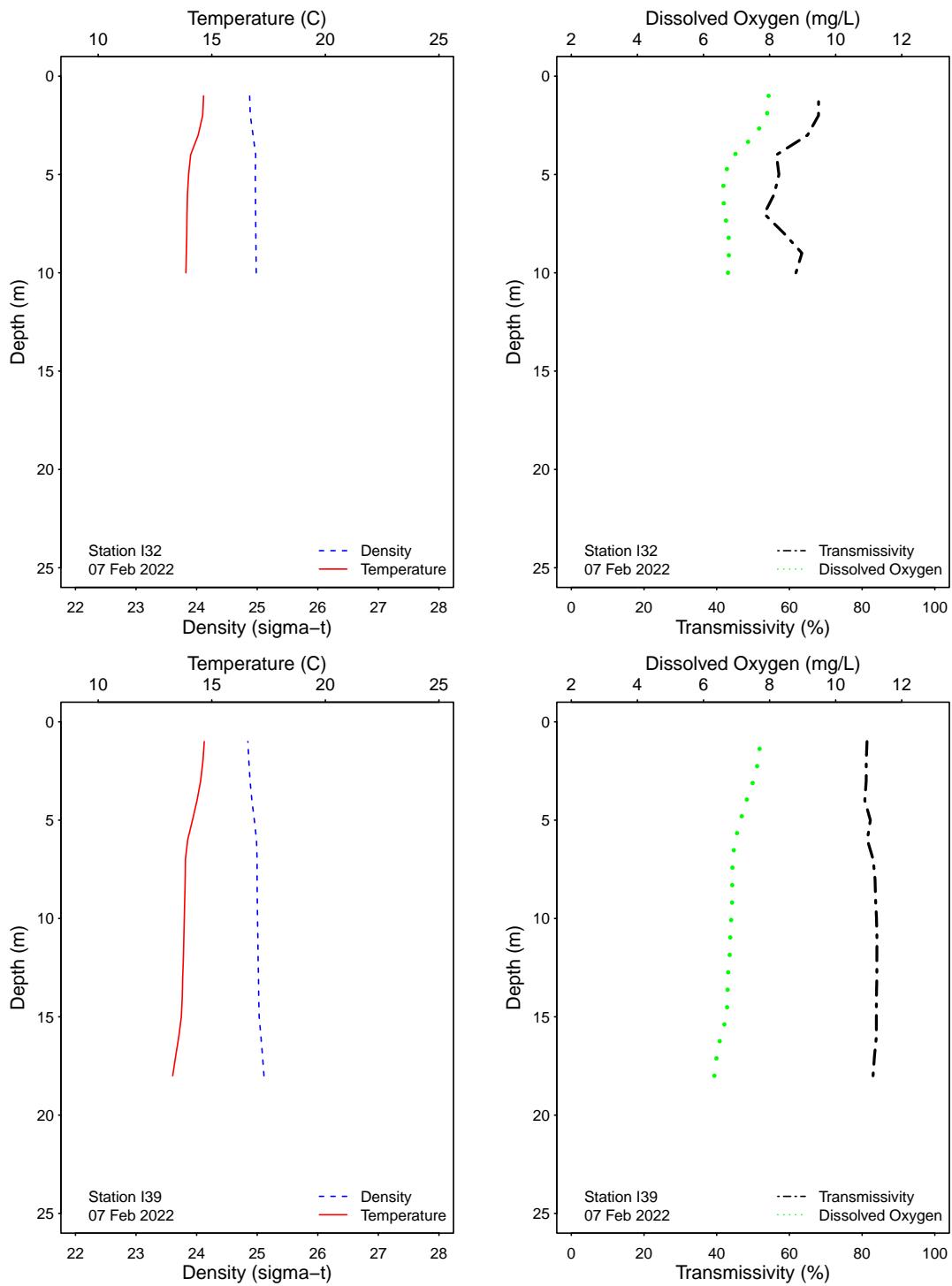


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

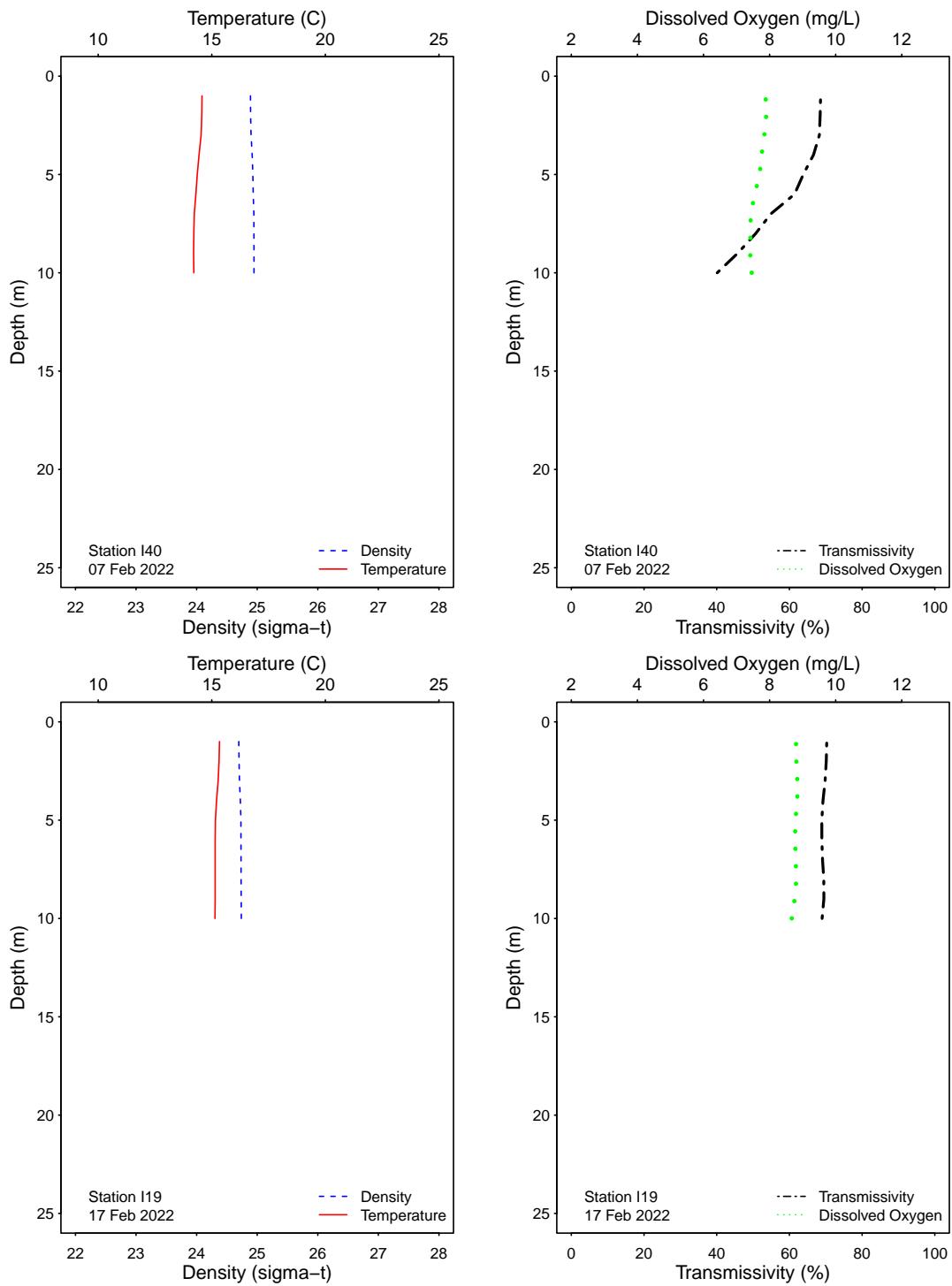


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

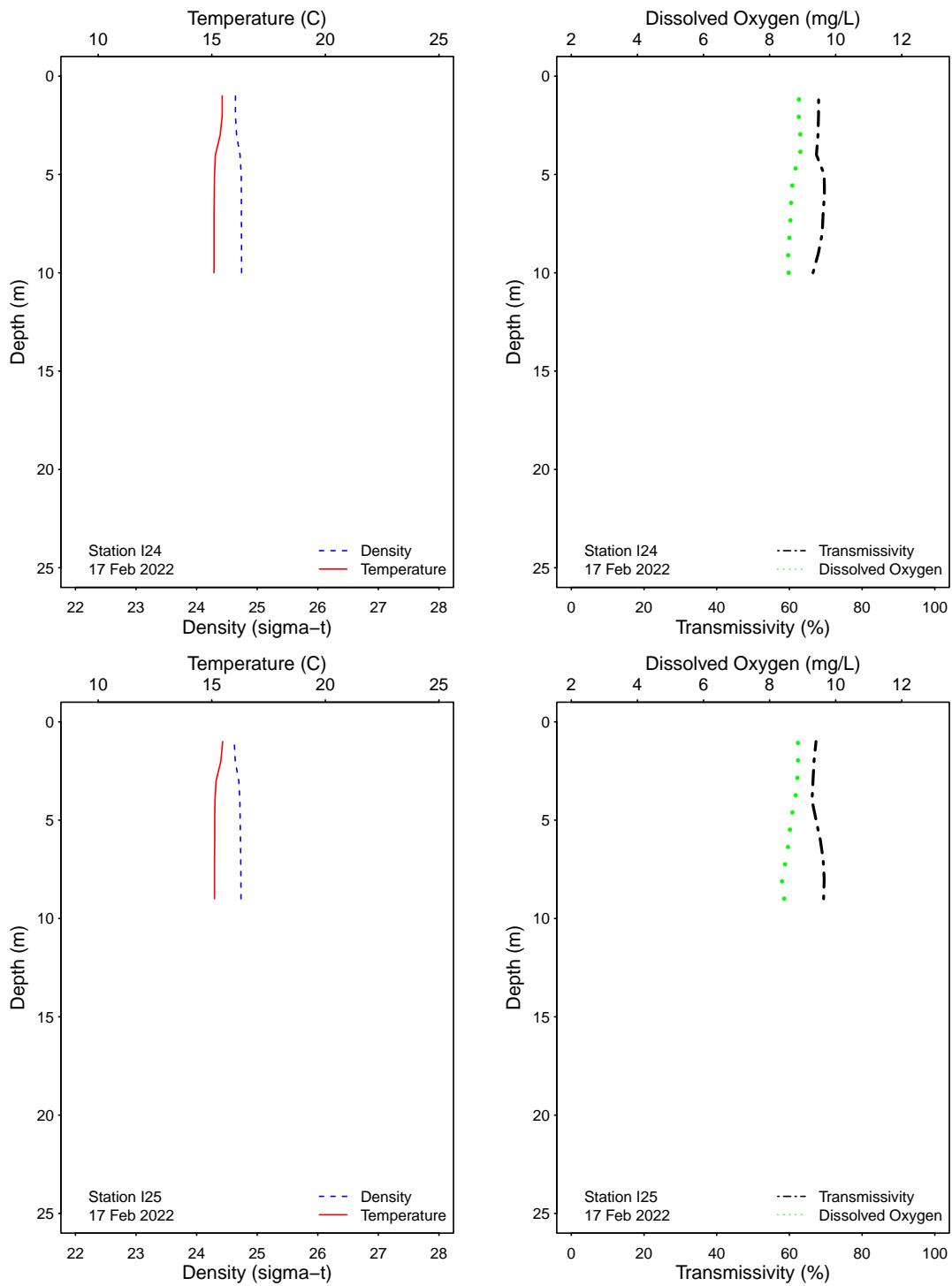


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

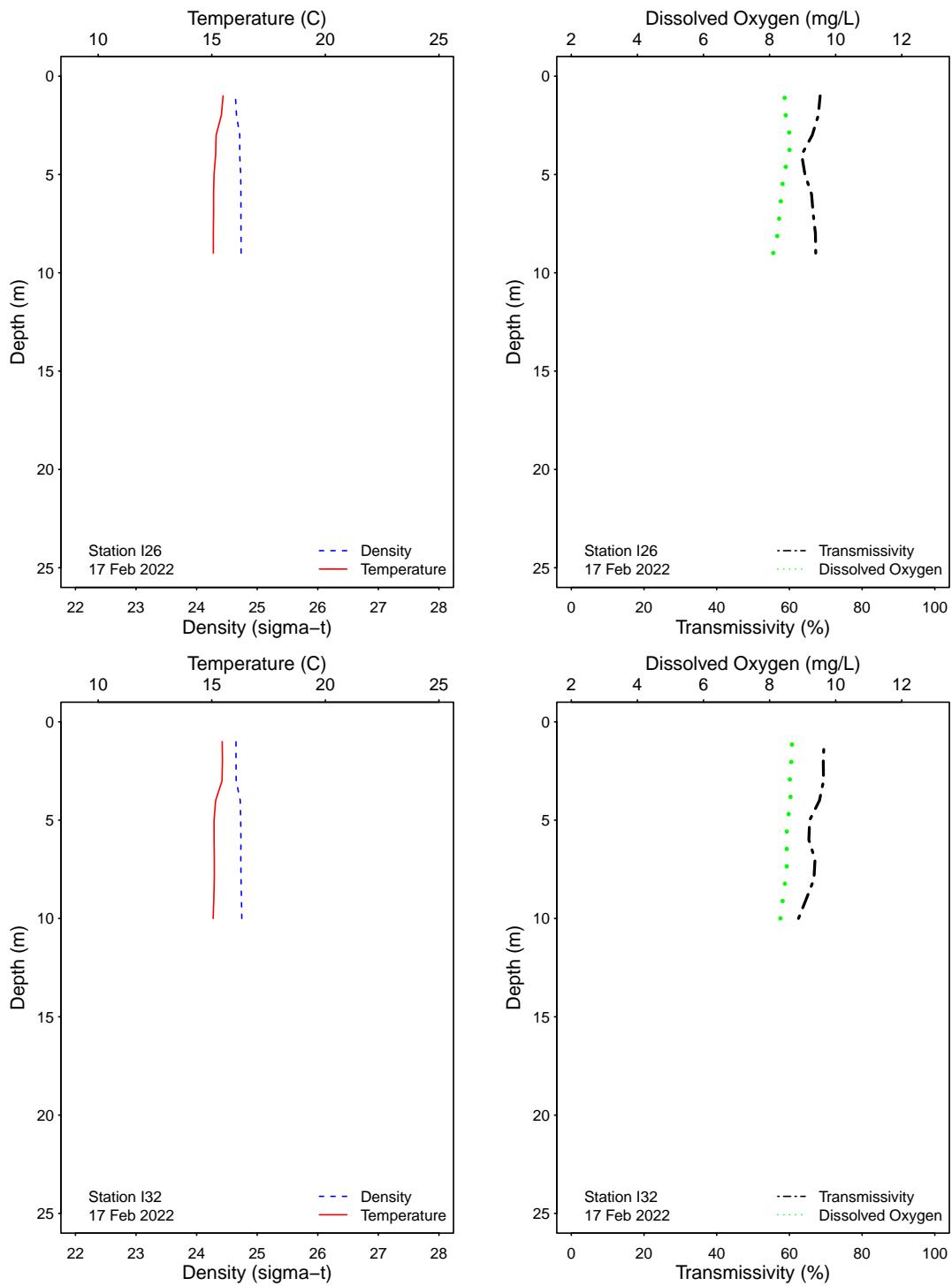


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

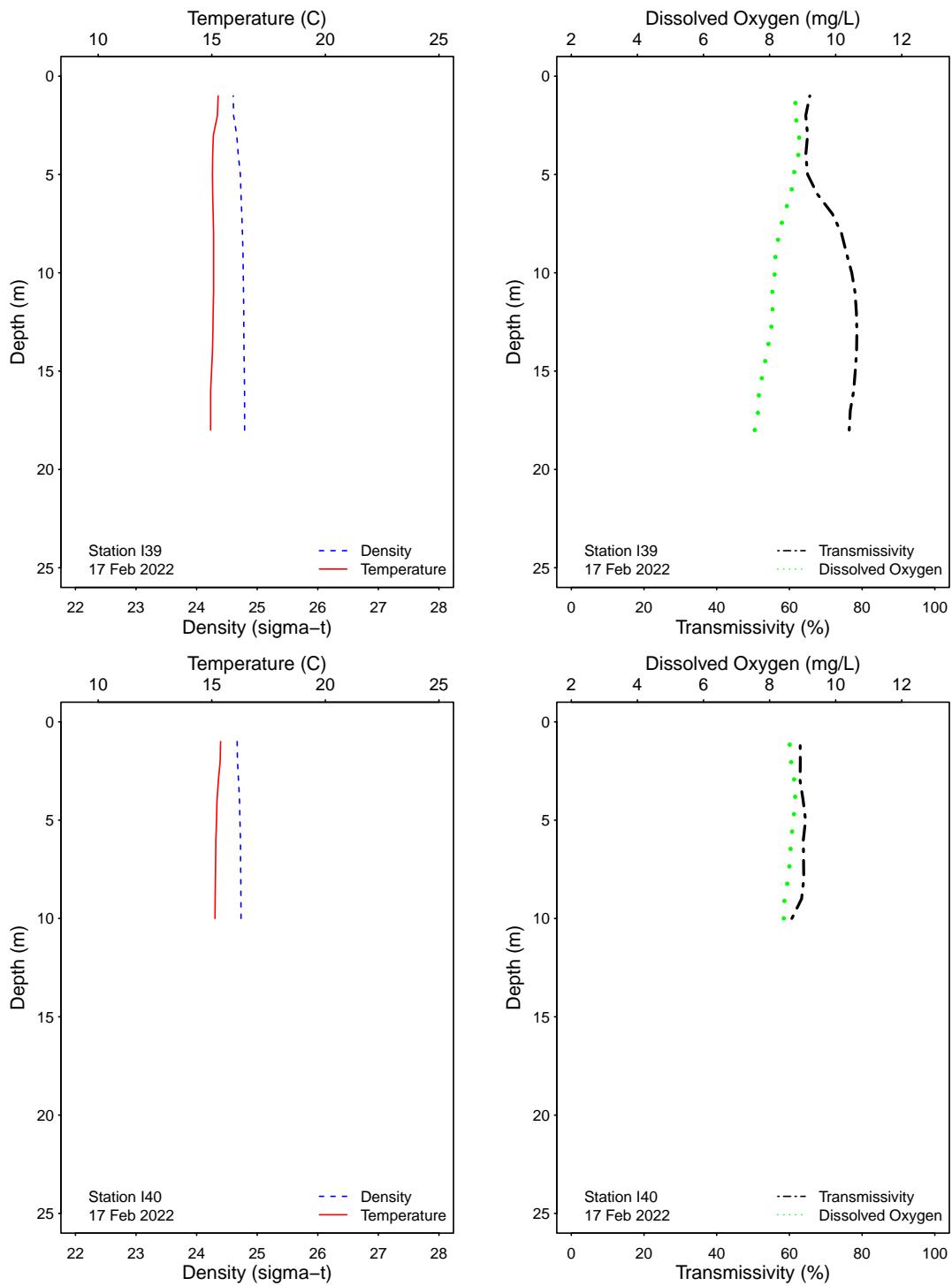


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

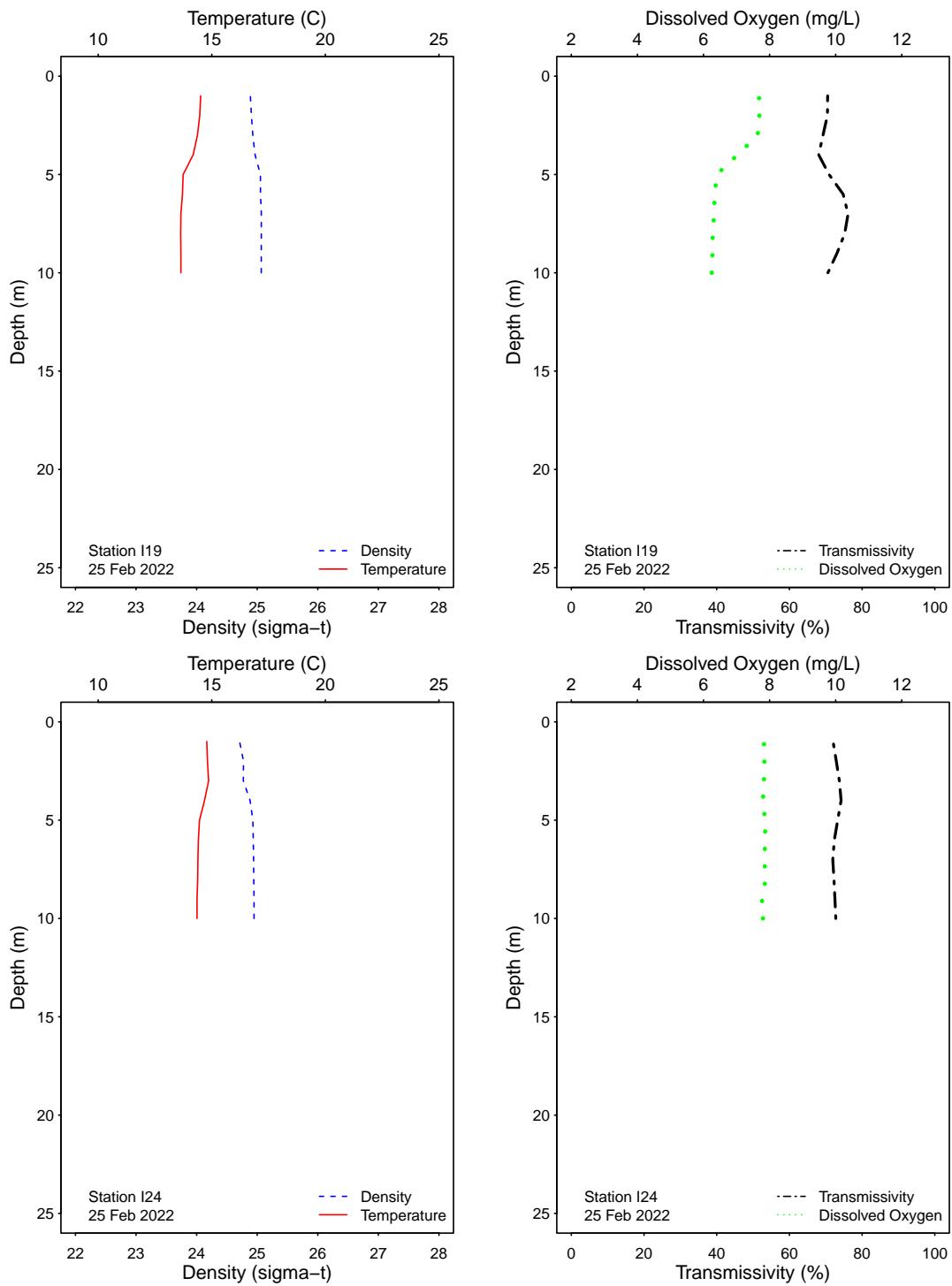


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

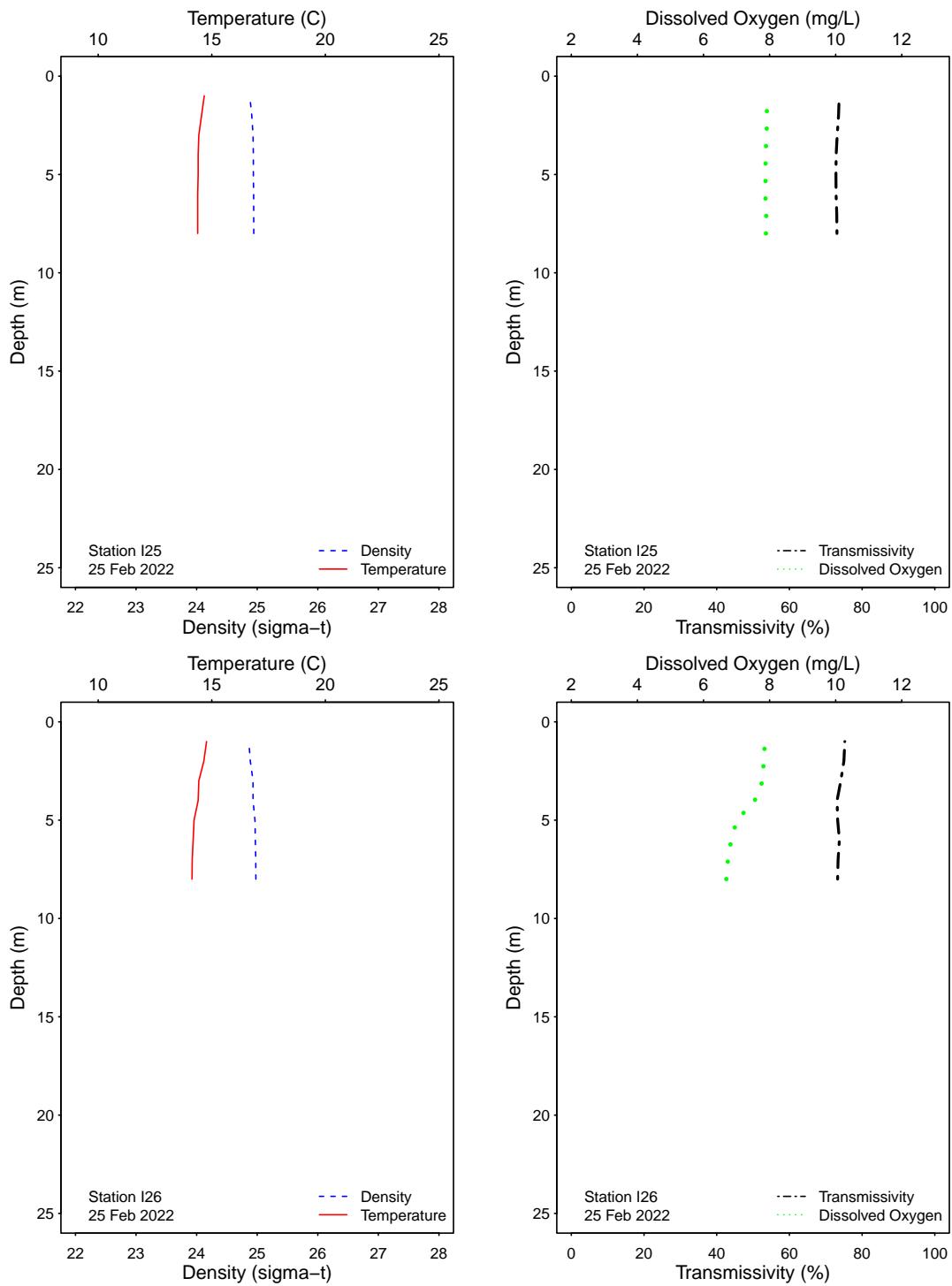


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

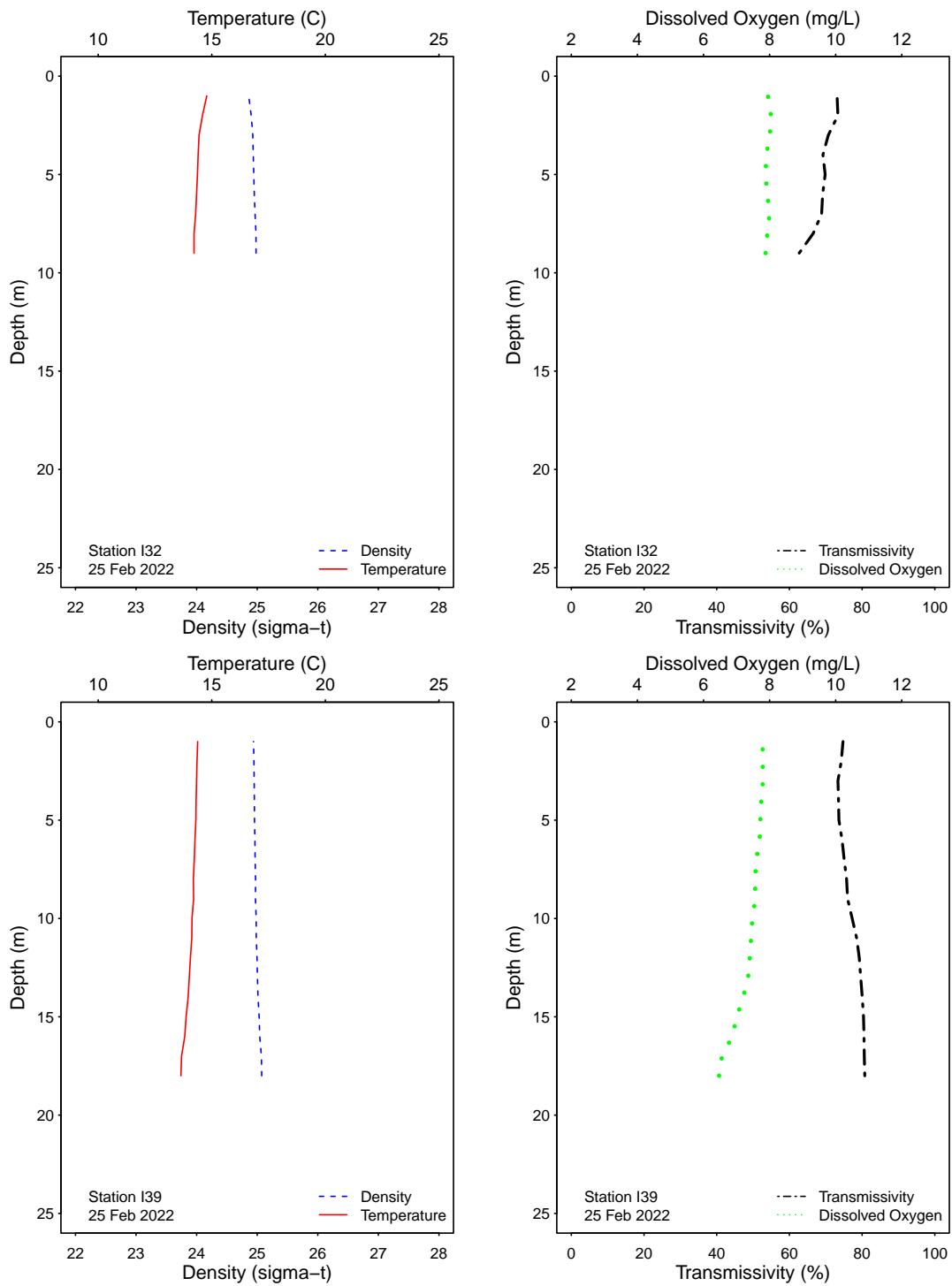


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

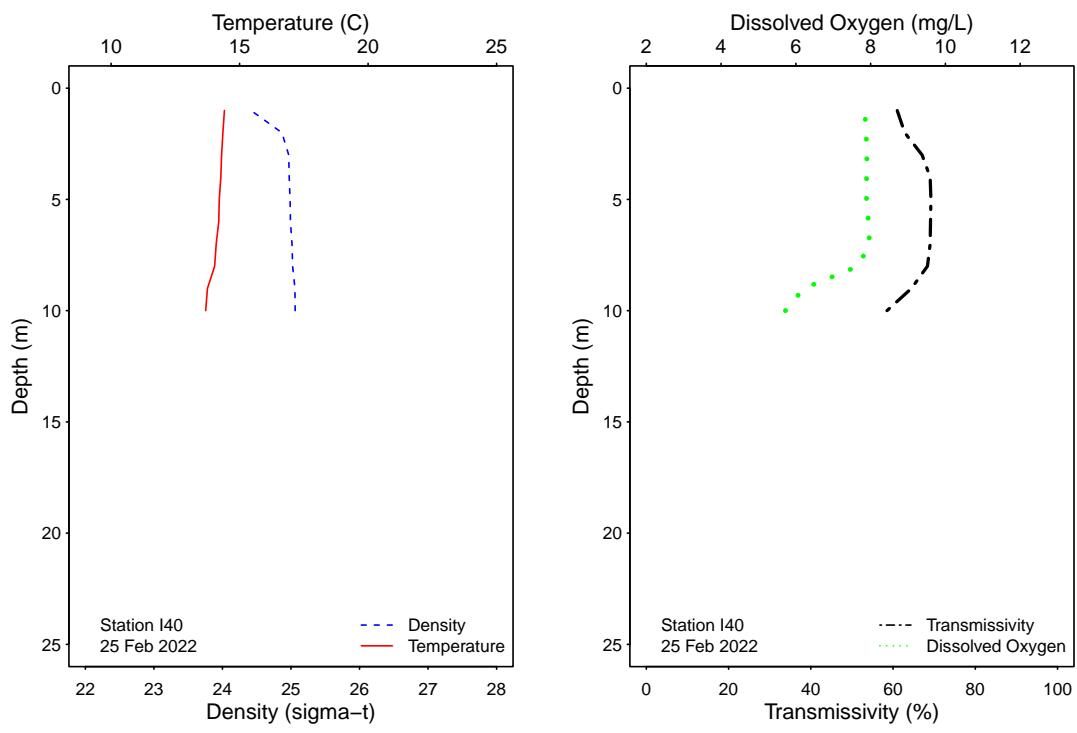


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

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
03 Feb 2022	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
04 Feb 2022	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.2

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for *Enterococcus* bacteria at the SBOO offshore stations within State jurisdictional waters. *Enterococcus* density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
February	IC									

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.3

Summary of compliance with the Ocean Plan's Statistical Threshold Value standard for total coliform bacteria at the SBOO offshore stations within State jurisdictional waters. Total coliform density shall not exceed 110 CFU/100 mL in more than 10% of samples per month.

Date	12	14	16	18	20	22	24	26	28	30	32	34	36	38
February	2m IC	18m IC	27m IC	2m IC	27m IC	2m IC	18m IC	18m IC	2m IC	12m IC	27m IC	2m IC	11m IC	2m IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 4.4

Summary of water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	Temp	XMS	DO	Sal	pH
I10	01 Feb 2022	1113	2	200e	34e	140e	14.7	67.62	8.8	33.42	8.2
I10	01 Feb 2022	1113	12	800e	140e	320e	14.7	73.53	8.2	33.42	8.2
I10	01 Feb 2022	1113	18	300e	62	100	14.6	76.16	7.6	33.44	8.2
I11	01 Feb 2022	1101	2	9200	1400e	1800e	15.0	71.81	8.3	33.40	8.2
I11	01 Feb 2022	1101	6	8600	1800e	2400e	14.9	71.74	8.3	33.40	8.2
I11	01 Feb 2022	1101	11	5400	680	520	14.9	74.32	8.1	33.42	8.2
I12	03 Feb 2022	1003	2	8e	<2	<2	14.7	80.46	7.6	33.41	8.1
I12	03 Feb 2022	1003	18	40e	<2	<2	14.4	80.85	7.2	33.40	8.1
I12	03 Feb 2022	1003	27	20e	4e	<2	13.6	79.67	6.5	33.41	8.0
I13	03 Feb 2022	1048	2	<2	<2	<2	15.4	83.61	7.8	33.45	8.2
I13	03 Feb 2022	1048	18	<2	<2	<2	14.9	80.86	7.9	33.44	8.2
I13	03 Feb 2022	1048	37	6e	2e	4e	13.4	80.88	6.4	33.39	8.0
I14	03 Feb 2022	1103	2	<2	<2	<2	14.8	79.10	7.7	33.44	8.1
I14	03 Feb 2022	1103	18	2e	<2	<2	14.5	80.27	7.4	33.44	8.1
I14	03 Feb 2022	1103	27	6e	2e	<2	13.6	78.95	6.5	33.41	8.1
I16	03 Feb 2022	1111	2	16e	<2	<2	14.6	79.99	7.6	33.39	8.1
I16	03 Feb 2022	1111	18	4e	<2	<2	14.4	80.27	7.2	33.43	8.1
I16	03 Feb 2022	1111	27	4e	4e	<2	13.5	79.11	6.4	33.41	8.1
I18	03 Feb 2022	942	2	<2	<2	<2	14.7	81.08	7.8	33.44	8.1
I18	03 Feb 2022	942	12	<2	<2	<2	14.6	80.59	7.8	33.44	8.1
I18	03 Feb 2022	942	18	2e	<2	<2	14.6	80.86	7.6	33.44	8.1
I20	03 Feb 2022	836	2	<2	<2	<2	15.4	84.42	7.8	33.44	8.2
I20	03 Feb 2022	836	18	<2	<2	<2	15.4	84.44	7.8	33.44	8.2
I20	03 Feb 2022	836	55	4e	<2	2e	12.1	83.72	5.1	33.55	7.9
I21	03 Feb 2022	848	2	<2	<2	<2	15.4	84.65	7.8	33.44	8.2
I21	03 Feb 2022	848	18	2e	<2	<2	14.6	82.37	7.3	33.42	8.1
I21	03 Feb 2022	848	37	8e	4e	<2	13.3	82.60	6.3	33.40	8.0
I22	03 Feb 2022	920	2	<2	<2	<2	14.6	80.22	7.7	33.44	8.1
I22	03 Feb 2022	920	18	2e	<2	<2	14.3	80.27	7.1	33.43	8.1
I22	03 Feb 2022	920	27	18e	4e	<2	13.4	77.94	6.4	33.41	8.0
I23	03 Feb 2022	931	2	<2	<2	<2	14.6	79.63	8.0	33.44	8.2
I23	03 Feb 2022	931	12	<2	<2	<2	14.6	80.34	7.6	33.44	8.1
I23	03 Feb 2022	931	18	2e	<2	2e	14.2	74.65	6.8	33.42	8.1
I3	01 Feb 2022	1005	2	<20	<2	2e	14.6	76.22	8.2	33.45	8.2
I3	01 Feb 2022	1005	18	14e	2e	16e	14.6	78.28	8.0	33.45	8.2
I3	01 Feb 2022	1005	27	110	22e	42	14.3	78.02	7.5	33.46	8.1
I30	04 Feb 2022	910	2	<2	2e	<2	14.9	83.13	7.6	33.44	8.2
I30	04 Feb 2022	910	18	4e	2e	<2	14.8	83.56	7.5	33.44	8.2
I30	04 Feb 2022	910	27	2e	<2	<2	13.9	83.03	6.8	33.40	8.1

Station	Date	Time	Depth	Total	Fecal	Enterο	Temp	XMS	DO	Sal	pH
I33	04 Feb 2022	814	2	<2	<2	<2	15.1	83.91	7.7	33.45	8.2
I33	04 Feb 2022	814	18	8e	<2	<2	13.9	83.87	6.9	33.39	8.1
I33	04 Feb 2022	814	27	12e	2e	<2	13.6	83.54	6.6	33.39	8.1
I36	04 Feb 2022	943	2	14e	4e	2e	14.7	64.54	8.7	33.45	8.2
I36	04 Feb 2022	943	6	20e	<2	<2	14.6	62.27	8.6	33.45	8.2
I36	04 Feb 2022	943	11	24e	4e	8e	14.5	60.43	8.1	33.46	8.2
I37	04 Feb 2022	751	2	<2	<2	<2	14.7	79.77	7.5	33.44	8.1
I37	04 Feb 2022	751	6	<2	<2	<2	14.7	79.91	7.5	33.44	8.1
I37	04 Feb 2022	751	11	2e	<2	<2	14.7	79.83	7.5	33.44	8.1
I38	04 Feb 2022	1017	2	2e	<2	<2	14.7	71.88	8.3	33.48	8.2
I38	04 Feb 2022	1017	6	8e	6e	<2	14.6	70.46	8.3	33.48	8.2
I38	04 Feb 2022	1017	11	<20	8e	<2	14.6	70.45	8.3	33.48	8.2
I5	01 Feb 2022	1028	2	7200	2200e	4600	14.9	73.14	8.0	33.37	8.2
I5	01 Feb 2022	1028	6	13000	2200e	3000e	14.8	76.21	7.9	33.43	8.2
I5	01 Feb 2022	1028	11	660	70	88	14.8	76.91	7.9	33.44	8.2
I7	01 Feb 2022	841	2	2e	<2	<2	15.6	80.55	7.7	33.44	8.2
I7	01 Feb 2022	841	18	<2	<2	<2	15.5	84.08	7.7	33.43	8.2
I7	01 Feb 2022	841	52	2e	<2	<2	12.8	83.40	5.7	33.47	8.0
I8	01 Feb 2022	1137	2	2e	<2	<2	15.4	82.63	7.8	33.44	8.2
I8	01 Feb 2022	1137	18	<2	<2	<2	15.1	81.76	7.7	33.43	8.2
I8	01 Feb 2022	1137	37	<2	<2	<2	14.2	81.14	7.0	33.43	8.1
I9	01 Feb 2022	1124	2	<2	<2	<2	14.8	75.46	7.8	33.42	8.2
I9	01 Feb 2022	1124	18	6e	<2	4e	14.4	80.04	7.2	33.44	8.1
I9	01 Feb 2022	1124	27	8e	2e	6e	14.4	78.58	7.2	33.45	8.1

ns = not sampled

ND = no data

Table 4.5

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

Station	Date	Parameter	Value
I1	01 Feb 2022	Depth (m)	62
I1	01 Feb 2022	Arrive Time	912
I1	01 Feb 2022	Depart Time	918
I1	01 Feb 2022	Air Temp (C)	14.8
I1	01 Feb 2022	Weather	Overcast
I1	01 Feb 2022	Visibility (mi)	10
I1	01 Feb 2022	Wind Speed (kts)	8
I1	01 Feb 2022	Wind Dir	S
I1	01 Feb 2022	Water Color	Greenish-Blue
I1	01 Feb 2022	Wave Ht Low (ft)	3.3
I1	01 Feb 2022	Wave Period (sec)	10
I1	01 Feb 2022	Sea State	Confused Swell
I1	01 Feb 2022	High Tide (ft)	6.67
I1	01 Feb 2022	High Tide Time	1642
I1	01 Feb 2022	Low Tide (ft)	-1.7
I1	01 Feb 2022	Low Tide Time	2342
I1	01 Feb 2022	Comments	OA 19026 60m Niskin 1; OA 19027 60m dup Niskin 2; OA 19028 30m Niskin 3; OA 19029 1m Niskin 4
I10	01 Feb 2022	Depth (m)	21
I10	01 Feb 2022	Arrive Time	1113
I10	01 Feb 2022	Depart Time	1116
I10	01 Feb 2022	Air Temp (C)	14.4
I10	01 Feb 2022	Weather	Overcast
I10	01 Feb 2022	Visibility (mi)	10
I10	01 Feb 2022	Wind Speed (kts)	10.5
I10	01 Feb 2022	Wind Dir	SE
I10	01 Feb 2022	Water Color	Brown
I10	01 Feb 2022	Wave Ht Low (ft)	3.3
I10	01 Feb 2022	Wave Period (sec)	10
I10	01 Feb 2022	Sea State	Confused Swell
I10	01 Feb 2022	High Tide (ft)	6.67
I10	01 Feb 2022	High Tide Time	1642
I10	01 Feb 2022	Low Tide (ft)	-1.7
I10	01 Feb 2022	Low Tide Time	2342
I10	01 Feb 2022	Comments	In brown plume
I11	01 Feb 2022	Depth (m)	15
I11	01 Feb 2022	Arrive Time	1101
I11	01 Feb 2022	Depart Time	1104
I11	01 Feb 2022	Air Temp (C)	14.4
I11	01 Feb 2022	Weather	Overcast
I11	01 Feb 2022	Visibility (mi)	10
I11	01 Feb 2022	Wind Speed (kts)	11.7
I11	01 Feb 2022	Wind Dir	S
I11	01 Feb 2022	Water Color	Greenish-Brown
I11	01 Feb 2022	Wave Ht Low (ft)	3.3
I11	01 Feb 2022	Wave Period (sec)	10
I11	01 Feb 2022	Sea State	Rough
I11	01 Feb 2022	High Tide (ft)	6.67
I11	01 Feb 2022	High Tide Time	1642
I11	01 Feb 2022	Low Tide (ft)	-1.7
I11	01 Feb 2022	Low Tide Time	2342
I11	01 Feb 2022	Comments	none
I12	03 Feb 2022	Depth (m)	30

Station	Date	Parameter	Value
I12	03 Feb 2022	Arrive Time	1003
I12	03 Feb 2022	Depart Time	1006
I12	03 Feb 2022	Air Temp (C)	14.3
I12	03 Feb 2022	Weather	Clear
I12	03 Feb 2022	Visibility (mi)	12
I12	03 Feb 2022	Wind Speed (kts)	3
I12	03 Feb 2022	Wind Dir	S
I12	03 Feb 2022	Water Color	Greenish-Blue
I12	03 Feb 2022	Wave Ht Low (ft)	3
I12	03 Feb 2022	Wave Period (sec)	10
I12	03 Feb 2022	Sea State	Calm
I12	03 Feb 2022	High Tide (ft)	5.79
I12	03 Feb 2022	High Tide Time	1806
I12	03 Feb 2022	Low Tide (ft)	-0.83
I12	03 Feb 2022	Low Tide Time	100
I12	03 Feb 2022	Comments	none
I13	03 Feb 2022	Depth (m)	39
I13	03 Feb 2022	Arrive Time	1048
I13	03 Feb 2022	Depart Time	1052
I13	03 Feb 2022	Air Temp (C)	14.1
I13	03 Feb 2022	Weather	Clear
I13	03 Feb 2022	Visibility (mi)	12
I13	03 Feb 2022	Wind Speed (kts)	2.7
I13	03 Feb 2022	Wind Dir	SW
I13	03 Feb 2022	Water Color	Greenish-Blue
I13	03 Feb 2022	Wave Ht Low (ft)	3
I13	03 Feb 2022	Wave Period (sec)	10
I13	03 Feb 2022	Sea State	Calm
I13	03 Feb 2022	High Tide (ft)	5.79
I13	03 Feb 2022	High Tide Time	1806
I13	03 Feb 2022	Low Tide (ft)	-0.83
I13	03 Feb 2022	Low Tide Time	100
I13	03 Feb 2022	Comments	none
I14	03 Feb 2022	Depth (m)	29
I14	03 Feb 2022	Arrive Time	1103
I14	03 Feb 2022	Depart Time	1106
I14	03 Feb 2022	Air Temp (C)	14.3
I14	03 Feb 2022	Weather	Clear
I14	03 Feb 2022	Visibility (mi)	12
I14	03 Feb 2022	Wind Speed (kts)	3.4
I14	03 Feb 2022	Wind Dir	NW
I14	03 Feb 2022	Water Color	Greenish-Blue
I14	03 Feb 2022	Wave Ht Low (ft)	3
I14	03 Feb 2022	Wave Period (sec)	10
I14	03 Feb 2022	Sea State	Calm
I14	03 Feb 2022	High Tide (ft)	5.79
I14	03 Feb 2022	High Tide Time	1806
I14	03 Feb 2022	Low Tide (ft)	-0.83
I14	03 Feb 2022	Low Tide Time	100
I14	03 Feb 2022	Comments	none
I15	03 Feb 2022	Depth (m)	36
I15	03 Feb 2022	Arrive Time	1031
I15	03 Feb 2022	Depart Time	1038
I15	03 Feb 2022	Air Temp (C)	14.1
I15	03 Feb 2022	Weather	Clear
I15	03 Feb 2022	Visibility (mi)	12
I15	03 Feb 2022	Wind Speed (kts)	2.4
I15	03 Feb 2022	Wind Dir	SW

Station	Date	Parameter	Value
I15	03 Feb 2022	Water Color	Greenish-Blue
I15	03 Feb 2022	Wave Ht Low (ft)	3
I15	03 Feb 2022	Wave Period (sec)	10
I15	03 Feb 2022	Sea State	Calm
I15	03 Feb 2022	High Tide (ft)	5.79
I15	03 Feb 2022	High Tide Time	1806
I15	03 Feb 2022	Low Tide (ft)	-0.83
I15	03 Feb 2022	Low Tide Time	100
I15	03 Feb 2022	Comments	none
I16	03 Feb 2022	Depth (m)	28
I16	03 Feb 2022	Arrive Time	1111
I16	03 Feb 2022	Depart Time	1115
I16	03 Feb 2022	Air Temp (C)	14.3
I16	03 Feb 2022	Weather	Clear
I16	03 Feb 2022	Visibility (mi)	12
I16	03 Feb 2022	Wind Speed (kts)	4.2
I16	03 Feb 2022	Wind Dir	SW
I16	03 Feb 2022	Water Color	Greenish-Blue
I16	03 Feb 2022	Wave Ht Low (ft)	3
I16	03 Feb 2022	Wave Period (sec)	10
I16	03 Feb 2022	Sea State	Calm
I16	03 Feb 2022	High Tide (ft)	5.79
I16	03 Feb 2022	High Tide Time	1806
I16	03 Feb 2022	Low Tide (ft)	-0.83
I16	03 Feb 2022	Low Tide Time	100
I16	03 Feb 2022	Comments	Fishing vessel 'Dolphin' close to station; Several birds; Lobster Floats
I17	03 Feb 2022	Depth (m)	28
I17	03 Feb 2022	Arrive Time	953
I17	03 Feb 2022	Depart Time	956
I17	03 Feb 2022	Air Temp (C)	14.2
I17	03 Feb 2022	Weather	Clear
I17	03 Feb 2022	Visibility (mi)	12
I17	03 Feb 2022	Wind Speed (kts)	1.2
I17	03 Feb 2022	Wind Dir	N
I17	03 Feb 2022	Water Color	Greenish-Blue
I17	03 Feb 2022	Wave Ht Low (ft)	3
I17	03 Feb 2022	Wave Period (sec)	10
I17	03 Feb 2022	Sea State	Calm
I17	03 Feb 2022	High Tide (ft)	5.79
I17	03 Feb 2022	High Tide Time	1806
I17	03 Feb 2022	Low Tide (ft)	-0.83
I17	03 Feb 2022	Low Tide Time	100
I17	03 Feb 2022	Comments	none
I18	03 Feb 2022	Depth (m)	22
I18	03 Feb 2022	Arrive Time	942
I18	03 Feb 2022	Depart Time	946
I18	03 Feb 2022	Air Temp (C)	14.5
I18	03 Feb 2022	Weather	Clear
I18	03 Feb 2022	Visibility (mi)	12
I18	03 Feb 2022	Wind Speed (kts)	0
I18	03 Feb 2022	Wind Dir	NE
I18	03 Feb 2022	Water Color	Greenish-Blue
I18	03 Feb 2022	Wave Ht Low (ft)	3
I18	03 Feb 2022	Wave Period (sec)	10
I18	03 Feb 2022	Sea State	Calm
I18	03 Feb 2022	High Tide (ft)	5.79
I18	03 Feb 2022	High Tide Time	1806

Station	Date	Parameter	Value
I18	03 Feb 2022	Low Tide (ft)	-0.83
I18	03 Feb 2022	Low Tide Time	100
I18	03 Feb 2022	Comments	none
I2	01 Feb 2022	Depth (m)	35
I2	01 Feb 2022	Arrive Time	949
I2	01 Feb 2022	Depart Time	959
I2	01 Feb 2022	Air Temp (C)	14.5
I2	01 Feb 2022	Weather	Overcast
I2	01 Feb 2022	Visibility (mi)	10
I2	01 Feb 2022	Wind Speed (kts)	8.4
I2	01 Feb 2022	Wind Dir	SW
I2	01 Feb 2022	Water Color	Greenish-Blue
I2	01 Feb 2022	Wave Ht Low (ft)	3.3
I2	01 Feb 2022	Wave Period (sec)	10
I2	01 Feb 2022	Sea State	Confused Swell
I2	01 Feb 2022	High Tide (ft)	6.67
I2	01 Feb 2022	High Tide Time	1642
I2	01 Feb 2022	Low Tide (ft)	-1.7
I2	01 Feb 2022	Low Tide Time	2342
I2	01 Feb 2022	Comments	none
I20	03 Feb 2022	Depth (m)	56
I20	03 Feb 2022	Arrive Time	826
I20	03 Feb 2022	Depart Time	831
I20	03 Feb 2022	Air Temp (C)	11.5
I20	03 Feb 2022	Weather	Clear
I20	03 Feb 2022	Visibility (mi)	12
I20	03 Feb 2022	Wind Speed (kts)	12.9
I20	03 Feb 2022	Wind Dir	E
I20	03 Feb 2022	Water Color	Greenish-Blue
I20	03 Feb 2022	Wave Ht Low (ft)	3
I20	03 Feb 2022	Wave Period (sec)	10
I20	03 Feb 2022	Sea State	Light Chop
I20	03 Feb 2022	High Tide (ft)	5.79
I20	03 Feb 2022	High Tide Time	1806
I20	03 Feb 2022	Low Tide (ft)	-0.83
I20	03 Feb 2022	Low Tide Time	100
I20	03 Feb 2022	Comments	none
I21	03 Feb 2022	Depth (m)	42
I21	03 Feb 2022	Arrive Time	848
I21	03 Feb 2022	Depart Time	853
I21	03 Feb 2022	Air Temp (C)	11.6
I21	03 Feb 2022	Weather	Clear
I21	03 Feb 2022	Visibility (mi)	12
I21	03 Feb 2022	Wind Speed (kts)	7.6
I21	03 Feb 2022	Wind Dir	NE
I21	03 Feb 2022	Water Color	Greenish-Blue
I21	03 Feb 2022	Wave Ht Low (ft)	3
I21	03 Feb 2022	Wave Period (sec)	10
I21	03 Feb 2022	Sea State	Light Chop
I21	03 Feb 2022	High Tide (ft)	5.79
I21	03 Feb 2022	High Tide Time	1806
I21	03 Feb 2022	Low Tide (ft)	-0.83
I21	03 Feb 2022	Low Tide Time	100
I21	03 Feb 2022	Comments	OA samples: 1m;#19031;Niskin bottle 5; 41m;#19030; Niskin bottle 4
I22	03 Feb 2022	Depth (m)	30
I22	03 Feb 2022	Arrive Time	920

Station	Date	Parameter	Value
I22	03 Feb 2022	Depart Time	924
I22	03 Feb 2022	Air Temp (C)	13.4
I22	03 Feb 2022	Weather	Clear
I22	03 Feb 2022	Visibility (mi)	12
I22	03 Feb 2022	Wind Speed (kts)	5.5
I22	03 Feb 2022	Wind Dir	E
I22	03 Feb 2022	Water Color	Greenish-Blue
I22	03 Feb 2022	Wave Ht Low (ft)	3
I22	03 Feb 2022	Wave Period (sec)	10
I22	03 Feb 2022	Sea State	Light Chop
I22	03 Feb 2022	High Tide (ft)	5.79
I22	03 Feb 2022	High Tide Time	1806
I22	03 Feb 2022	Low Tide (ft)	-0.83
I22	03 Feb 2022	Low Tide Time	100
I22	03 Feb 2022	Comments	none
I23	03 Feb 2022	Depth (m)	22
I23	03 Feb 2022	Arrive Time	931
I23	03 Feb 2022	Depart Time	935
I23	03 Feb 2022	Air Temp (C)	14.1
I23	03 Feb 2022	Weather	Clear
I23	03 Feb 2022	Visibility (mi)	12
I23	03 Feb 2022	Wind Speed (kts)	4.8
I23	03 Feb 2022	Wind Dir	NE
I23	03 Feb 2022	Water Color	Greenish-Blue
I23	03 Feb 2022	Wave Ht Low (ft)	3
I23	03 Feb 2022	Wave Period (sec)	10
I23	03 Feb 2022	Sea State	Light Chop
I23	03 Feb 2022	High Tide (ft)	5.79
I23	03 Feb 2022	High Tide Time	1806
I23	03 Feb 2022	Low Tide (ft)	-0.83
I23	03 Feb 2022	Low Tide Time	100
I23	03 Feb 2022	Comments	none
I27	03 Feb 2022	Depth (m)	29
I27	03 Feb 2022	Arrive Time	908
I27	03 Feb 2022	Depart Time	912
I27	03 Feb 2022	Air Temp (C)	12.8
I27	03 Feb 2022	Weather	Clear
I27	03 Feb 2022	Visibility (mi)	12
I27	03 Feb 2022	Wind Speed (kts)	5.6
I27	03 Feb 2022	Wind Dir	NE
I27	03 Feb 2022	Water Color	Greenish-Blue
I27	03 Feb 2022	Wave Ht Low (ft)	3
I27	03 Feb 2022	Wave Period (sec)	10
I27	03 Feb 2022	Sea State	Light Chop
I27	03 Feb 2022	High Tide (ft)	5.79
I27	03 Feb 2022	High Tide Time	1806
I27	03 Feb 2022	Low Tide (ft)	-0.83
I27	03 Feb 2022	Low Tide Time	100
I27	03 Feb 2022	Comments	none
I28	04 Feb 2022	Depth (m)	57
I28	04 Feb 2022	Arrive Time	835
I28	04 Feb 2022	Depart Time	844
I28	04 Feb 2022	Air Temp (C)	12.2
I28	04 Feb 2022	Weather	Haze
I28	04 Feb 2022	Visibility (mi)	10
I28	04 Feb 2022	Wind Speed (kts)	4.5
I28	04 Feb 2022	Wind Dir	NE
I28	04 Feb 2022	Water Color	Blueish-Green

Station	Date	Parameter	Value
I28	04 Feb 2022	Wave Ht Low (ft)	2.3
I28	04 Feb 2022	Wave Period (sec)	11
I28	04 Feb 2022	Sea State	Wind Ripples
I28	04 Feb 2022	High Tide (ft)	5.06
I28	04 Feb 2022	High Tide Time	1848
I28	04 Feb 2022	Low Tide (ft)	-0.2
I28	04 Feb 2022	Low Tide Time	130
I28	04 Feb 2022	Comments	OA 19034 55m Niskin 1; OA 19035 1m Niskin 3
I29	04 Feb 2022	Depth (m)	38
I29	04 Feb 2022	Arrive Time	857
I29	04 Feb 2022	Depart Time	901
I29	04 Feb 2022	Air Temp (C)	12.4
I29	04 Feb 2022	Weather	Haze
I29	04 Feb 2022	Visibility (mi)	10
I29	04 Feb 2022	Wind Speed (kts)	2.6
I29	04 Feb 2022	Wind Dir	NE
I29	04 Feb 2022	Water Color	Blueish-Green
I29	04 Feb 2022	Wave Ht Low (ft)	2.3
I29	04 Feb 2022	Wave Period (sec)	11
I29	04 Feb 2022	Sea State	Wind Ripples
I29	04 Feb 2022	High Tide (ft)	5.06
I29	04 Feb 2022	High Tide Time	1848
I29	04 Feb 2022	Low Tide (ft)	-0.2
I29	04 Feb 2022	Low Tide Time	130
I29	04 Feb 2022	Comments	none
I3	01 Feb 2022	Depth (m)	28
I3	01 Feb 2022	Arrive Time	1005
I3	01 Feb 2022	Depart Time	1009
I3	01 Feb 2022	Air Temp (C)	14.3
I3	01 Feb 2022	Weather	Overcast
I3	01 Feb 2022	Visibility (mi)	10
I3	01 Feb 2022	Wind Speed (kts)	11.8
I3	01 Feb 2022	Wind Dir	SE
I3	01 Feb 2022	Water Color	Greenish-Blue
I3	01 Feb 2022	Wave Ht Low (ft)	3.3
I3	01 Feb 2022	Wave Period (sec)	10
I3	01 Feb 2022	Sea State	Rough
I3	01 Feb 2022	High Tide (ft)	6.67
I3	01 Feb 2022	High Tide Time	1642
I3	01 Feb 2022	Low Tide (ft)	-1.7
I3	01 Feb 2022	Low Tide Time	2342
I3	01 Feb 2022	Comments	none
I30	04 Feb 2022	Depth (m)	30
I30	04 Feb 2022	Arrive Time	910
I30	04 Feb 2022	Depart Time	914
I30	04 Feb 2022	Air Temp (C)	12.3
I30	04 Feb 2022	Weather	Haze
I30	04 Feb 2022	Visibility (mi)	10
I30	04 Feb 2022	Wind Speed (kts)	3.9
I30	04 Feb 2022	Wind Dir	NE
I30	04 Feb 2022	Water Color	Blueish-Green
I30	04 Feb 2022	Wave Ht Low (ft)	2.3
I30	04 Feb 2022	Wave Period (sec)	11
I30	04 Feb 2022	Sea State	Wind Ripples
I30	04 Feb 2022	High Tide (ft)	5.06
I30	04 Feb 2022	High Tide Time	1848
I30	04 Feb 2022	Low Tide (ft)	-0.2
I30	04 Feb 2022	Low Tide Time	130

Station	Date	Parameter	Value
I30	04 Feb 2022	Comments	none
I31	04 Feb 2022	Depth (m)	20
I31	04 Feb 2022	Arrive Time	922
I31	04 Feb 2022	Depart Time	926
I31	04 Feb 2022	Air Temp (C)	12.1
I31	04 Feb 2022	Weather	Haze
I31	04 Feb 2022	Visibility (mi)	10
I31	04 Feb 2022	Wind Speed (kts)	3.2
I31	04 Feb 2022	Wind Dir	NE
I31	04 Feb 2022	Water Color	Blueish-Green
I31	04 Feb 2022	Wave Ht Low (ft)	2.3
I31	04 Feb 2022	Wave Period (sec)	11
I31	04 Feb 2022	Sea State	Wind Ripples
I31	04 Feb 2022	High Tide (ft)	5.06
I31	04 Feb 2022	High Tide Time	1848
I31	04 Feb 2022	Low Tide (ft)	-0.2
I31	04 Feb 2022	Low Tide Time	130
I31	04 Feb 2022	Comments	none
I33	04 Feb 2022	Depth (m)	30
I33	04 Feb 2022	Arrive Time	814
I33	04 Feb 2022	Depart Time	818
I33	04 Feb 2022	Air Temp (C)	11.4
I33	04 Feb 2022	Weather	Haze
I33	04 Feb 2022	Visibility (mi)	10
I33	04 Feb 2022	Wind Speed (kts)	2.3
I33	04 Feb 2022	Wind Dir	NE
I33	04 Feb 2022	Water Color	Blueish-Green
I33	04 Feb 2022	Wave Ht Low (ft)	2.3
I33	04 Feb 2022	Wave Period (sec)	11
I33	04 Feb 2022	Sea State	Wind Ripples
I33	04 Feb 2022	High Tide (ft)	5.06
I33	04 Feb 2022	High Tide Time	1848
I33	04 Feb 2022	Low Tide (ft)	-0.2
I33	04 Feb 2022	Low Tide Time	130
I33	04 Feb 2022	Comments	none
I34	04 Feb 2022	Depth (m)	20
I34	04 Feb 2022	Arrive Time	802
I34	04 Feb 2022	Depart Time	806
I34	04 Feb 2022	Air Temp (C)	10.8
I34	04 Feb 2022	Weather	Haze
I34	04 Feb 2022	Visibility (mi)	10
I34	04 Feb 2022	Wind Speed (kts)	3.3
I34	04 Feb 2022	Wind Dir	E
I34	04 Feb 2022	Water Color	Blueish-Green
I34	04 Feb 2022	Wave Ht Low (ft)	2.3
I34	04 Feb 2022	Wave Period (sec)	11
I34	04 Feb 2022	Sea State	Wind Ripples
I34	04 Feb 2022	High Tide (ft)	5.06
I34	04 Feb 2022	High Tide Time	1848
I34	04 Feb 2022	Low Tide (ft)	-0.2
I34	04 Feb 2022	Low Tide Time	130
I34	04 Feb 2022	Comments	Recast due to bubbles; Used 2nd cast
I35	04 Feb 2022	Depth (m)	20
I35	04 Feb 2022	Arrive Time	1000
I35	04 Feb 2022	Depart Time	1003
I35	04 Feb 2022	Air Temp (C)	12.9
I35	04 Feb 2022	Weather	Haze

Station	Date	Parameter	Value
I35	04 Feb 2022	Visibility (mi)	10
I35	04 Feb 2022	Wind Speed (kts)	3.8
I35	04 Feb 2022	Wind Dir	NW
I35	04 Feb 2022	Water Color	Blueish-Green
I35	04 Feb 2022	Wave Ht Low (ft)	2.3
I35	04 Feb 2022	Wave Period (sec)	11
I35	04 Feb 2022	Sea State	Wind Ripples
I35	04 Feb 2022	High Tide (ft)	5.06
I35	04 Feb 2022	High Tide Time	1848
I35	04 Feb 2022	Low Tide (ft)	-0.2
I35	04 Feb 2022	Low Tide Time	130
I35	04 Feb 2022	Comments	none
I36	04 Feb 2022	Depth (m)	12
I36	04 Feb 2022	Arrive Time	943
I36	04 Feb 2022	Depart Time	952
I36	04 Feb 2022	Air Temp (C)	15.1
I36	04 Feb 2022	Weather	Haze
I36	04 Feb 2022	Visibility (mi)	10
I36	04 Feb 2022	Wind Speed (kts)	3.9
I36	04 Feb 2022	Wind Dir	NE
I36	04 Feb 2022	Water Color	Greenish-Brown
I36	04 Feb 2022	Wave Ht Low (ft)	2.3
I36	04 Feb 2022	Wave Period (sec)	11
I36	04 Feb 2022	Sea State	Wind Ripples
I36	04 Feb 2022	High Tide (ft)	5.06
I36	04 Feb 2022	High Tide Time	1848
I36	04 Feb 2022	Low Tide (ft)	-0.2
I36	04 Feb 2022	Low Tide Time	130
I36	04 Feb 2022	Comments	Field dup at 11m collected from separate cast; Used 1st cast
I37	04 Feb 2022	Depth (m)	13
I37	04 Feb 2022	Arrive Time	751
I37	04 Feb 2022	Depart Time	757
I37	04 Feb 2022	Air Temp (C)	10.9
I37	04 Feb 2022	Weather	Haze
I37	04 Feb 2022	Visibility (mi)	10
I37	04 Feb 2022	Wind Speed (kts)	5
I37	04 Feb 2022	Wind Dir	E
I37	04 Feb 2022	Water Color	Blueish-Green
I37	04 Feb 2022	Wave Ht Low (ft)	2.3
I37	04 Feb 2022	Wave Period (sec)	11
I37	04 Feb 2022	Sea State	Wind Ripples
I37	04 Feb 2022	High Tide (ft)	5.06
I37	04 Feb 2022	High Tide Time	1848
I37	04 Feb 2022	Low Tide (ft)	-0.2
I37	04 Feb 2022	Low Tide Time	130
I37	04 Feb 2022	Comments	none
I38	04 Feb 2022	Depth (m)	13
I38	04 Feb 2022	Arrive Time	1017
I38	04 Feb 2022	Depart Time	1021
I38	04 Feb 2022	Air Temp (C)	15.7
I38	04 Feb 2022	Weather	Haze
I38	04 Feb 2022	Visibility (mi)	10
I38	04 Feb 2022	Wind Speed (kts)	8.7
I38	04 Feb 2022	Wind Dir	N
I38	04 Feb 2022	Water Color	Greenish-Blue
I38	04 Feb 2022	Wave Ht Low (ft)	2.3
I38	04 Feb 2022	Wave Period (sec)	11
I38	04 Feb 2022	Sea State	Wind Ripples

Station	Date	Parameter	Value
I38	04 Feb 2022	High Tide (ft)	5.06
I38	04 Feb 2022	High Tide Time	1848
I38	04 Feb 2022	Low Tide (ft)	-0.2
I38	04 Feb 2022	Low Tide Time	130
I38	04 Feb 2022	Comments	none
I4	01 Feb 2022	Depth (m)	22
I4	01 Feb 2022	Arrive Time	1020
I4	01 Feb 2022	Depart Time	1024
I4	01 Feb 2022	Air Temp (C)	14.4
I4	01 Feb 2022	Weather	Overcast
I4	01 Feb 2022	Visibility (mi)	10
I4	01 Feb 2022	Wind Speed (kts)	11.7
I4	01 Feb 2022	Wind Dir	SE
I4	01 Feb 2022	Water Color	Brown
I4	01 Feb 2022	Wave Ht Low (ft)	3.3
I4	01 Feb 2022	Wave Period (sec)	10
I4	01 Feb 2022	Sea State	Rough
I4	01 Feb 2022	High Tide (ft)	6.67
I4	01 Feb 2022	High Tide Time	1642
I4	01 Feb 2022	Low Tide (ft)	-1.7
I4	01 Feb 2022	Low Tide Time	2342
I4	01 Feb 2022	Comments	In brown plume
I5	01 Feb 2022	Depth (m)	15
I5	01 Feb 2022	Arrive Time	1028
I5	01 Feb 2022	Depart Time	1033
I5	01 Feb 2022	Air Temp (C)	14.5
I5	01 Feb 2022	Weather	Overcast
I5	01 Feb 2022	Visibility (mi)	10
I5	01 Feb 2022	Wind Speed (kts)	12.6
I5	01 Feb 2022	Wind Dir	SE
I5	01 Feb 2022	Water Color	Greenish-Blue
I5	01 Feb 2022	Wave Ht Low (ft)	3.3
I5	01 Feb 2022	Wave Period (sec)	10
I5	01 Feb 2022	Sea State	Confused Swell
I5	01 Feb 2022	High Tide (ft)	6.67
I5	01 Feb 2022	High Tide Time	1642
I5	01 Feb 2022	Low Tide (ft)	-1.7
I5	01 Feb 2022	Low Tide Time	2342
I5	01 Feb 2022	Comments	none
I6	01 Feb 2022	Depth (m)	27
I6	01 Feb 2022	Arrive Time	1046
I6	01 Feb 2022	Depart Time	1050
I6	01 Feb 2022	Air Temp (C)	14.6
I6	01 Feb 2022	Weather	Overcast
I6	01 Feb 2022	Visibility (mi)	10
I6	01 Feb 2022	Wind Speed (kts)	9.8
I6	01 Feb 2022	Wind Dir	SE
I6	01 Feb 2022	Water Color	Brownish-Green
I6	01 Feb 2022	Wave Ht Low (ft)	3.3
I6	01 Feb 2022	Wave Period (sec)	10
I6	01 Feb 2022	Sea State	Rough
I6	01 Feb 2022	High Tide (ft)	6.67
I6	01 Feb 2022	High Tide Time	1642
I6	01 Feb 2022	Low Tide (ft)	-1.7
I6	01 Feb 2022	Low Tide Time	2342
I6	01 Feb 2022	Comments	none
I7	01 Feb 2022	Depth (m)	53

Station	Date	Parameter	Value
I7	01 Feb 2022	Arrive Time	841
I7	01 Feb 2022	Depart Time	850
I7	01 Feb 2022	Air Temp (C)	14.5
I7	01 Feb 2022	Weather	Overcast
I7	01 Feb 2022	Visibility (mi)	10
I7	01 Feb 2022	Wind Speed (kts)	9.9
I7	01 Feb 2022	Wind Dir	S
I7	01 Feb 2022	Water Color	Greenish-Blue
I7	01 Feb 2022	Wave Ht Low (ft)	3.3
I7	01 Feb 2022	Wave Period (sec)	10
I7	01 Feb 2022	Sea State	Confused Swell
I7	01 Feb 2022	High Tide (ft)	6.67
I7	01 Feb 2022	High Tide Time	1642
I7	01 Feb 2022	Low Tide (ft)	-1.7
I7	01 Feb 2022	Low Tide Time	2342
I7	01 Feb 2022	Comments	none
I8	01 Feb 2022	Depth (m)	36
I8	01 Feb 2022	Arrive Time	1137
I8	01 Feb 2022	Depart Time	1146
I8	01 Feb 2022	Air Temp (C)	14.7
I8	01 Feb 2022	Weather	Overcast
I8	01 Feb 2022	Visibility (mi)	10
I8	01 Feb 2022	Wind Speed (kts)	9.8
I8	01 Feb 2022	Wind Dir	SW
I8	01 Feb 2022	Water Color	Greenish-Blue
I8	01 Feb 2022	Wave Ht Low (ft)	3.3
I8	01 Feb 2022	Wave Period (sec)	10
I8	01 Feb 2022	Sea State	Confused Swell
I8	01 Feb 2022	High Tide (ft)	6.67
I8	01 Feb 2022	High Tide Time	1642
I8	01 Feb 2022	Low Tide (ft)	-1.7
I8	01 Feb 2022	Low Tide Time	2342
I8	01 Feb 2022	Comments	1st cast transmissometer spikes; Used 2nd cast
I9	01 Feb 2022	Depth (m)	31
I9	01 Feb 2022	Arrive Time	1124
I9	01 Feb 2022	Depart Time	1136
I9	01 Feb 2022	Air Temp (C)	14.6
I9	01 Feb 2022	Weather	Overcast
I9	01 Feb 2022	Visibility (mi)	10
I9	01 Feb 2022	Wind Speed (kts)	7.4
I9	01 Feb 2022	Wind Dir	S
I9	01 Feb 2022	Water Color	Greenish-Brown
I9	01 Feb 2022	Wave Ht Low (ft)	3.3
I9	01 Feb 2022	Wave Period (sec)	10
I9	01 Feb 2022	Sea State	Confused Swell
I9	01 Feb 2022	High Tide (ft)	6.67
I9	01 Feb 2022	High Tide Time	1642
I9	01 Feb 2022	Low Tide (ft)	-1.7
I9	01 Feb 2022	Low Tide Time	2342
I9	01 Feb 2022	Comments	none

Table 4.6

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I1	01 Feb 2022	1	15.60	83.88	7.8	33.43	8.2	24.6	0.68
I1	01 Feb 2022	2	15.59	83.93	7.8	33.43	8.2	24.6	0.68
I1	01 Feb 2022	3	15.59	83.90	7.8	33.43	8.2	24.6	0.69
I1	01 Feb 2022	4	15.59	84.07	7.8	33.43	8.2	24.6	0.69
I1	01 Feb 2022	5	15.59	84.07	7.7	33.43	8.2	24.6	0.70
I1	01 Feb 2022	6	15.58	84.05	7.7	33.43	8.2	24.6	0.72
I1	01 Feb 2022	7	15.58	84.01	7.8	33.43	8.2	24.6	0.74
I1	01 Feb 2022	8	15.58	83.97	7.7	33.43	8.2	24.6	0.78
I1	01 Feb 2022	9	15.56	83.85	7.7	33.43	8.2	24.6	0.85
I1	01 Feb 2022	10	15.53	83.58	7.8	33.44	8.2	24.6	0.96
I1	01 Feb 2022	11	15.51	83.48	7.8	33.44	8.2	24.7	1.04
I1	01 Feb 2022	12	15.47	83.45	7.8	33.44	8.2	24.7	1.21
I1	01 Feb 2022	13	15.39	83.26	7.7	33.42	8.2	24.7	1.35
I1	01 Feb 2022	14	15.20	82.90	7.8	33.40	8.2	24.7	1.46
I1	01 Feb 2022	15	15.13	82.87	7.8	33.39	8.2	24.7	1.59
I1	01 Feb 2022	16	15.10	83.00	7.8	33.39	8.2	24.7	1.57
I1	01 Feb 2022	17	15.00	83.12	7.8	33.38	8.2	24.7	1.62
I1	01 Feb 2022	18	14.81	83.06	7.7	33.41	8.2	24.8	1.59
I1	01 Feb 2022	19	14.73	83.19	7.6	33.42	8.2	24.8	1.63
I1	01 Feb 2022	20	14.67	83.14	7.6	33.43	8.1	24.8	1.59
I1	01 Feb 2022	21	14.66	83.08	7.6	33.43	8.1	24.8	1.59
I1	01 Feb 2022	22	14.61	83.00	7.5	33.44	8.1	24.8	1.53
I1	01 Feb 2022	23	14.55	82.90	7.4	33.44	8.1	24.9	1.52
I1	01 Feb 2022	24	14.44	83.00	7.4	33.44	8.1	24.9	1.38
I1	01 Feb 2022	25	14.45	83.17	7.4	33.44	8.1	24.9	1.44
I1	01 Feb 2022	26	14.35	83.17	7.2	33.44	8.1	24.9	1.35
I1	01 Feb 2022	27	14.27	83.30	7.2	33.44	8.1	24.9	1.38
I1	01 Feb 2022	28	14.23	83.43	7.1	33.44	8.1	24.9	1.35
I1	01 Feb 2022	29	14.17	83.42	7.1	33.44	8.1	24.9	1.32
I1	01 Feb 2022	30	14.17	83.53	7.1	33.44	8.1	24.9	1.28
I1	01 Feb 2022	31	14.10	83.51	6.9	33.44	8.1	25.0	1.25
I1	01 Feb 2022	32	13.89	83.53	6.8	33.44	8.1	25.0	1.27
I1	01 Feb 2022	33	13.81	83.73	6.6	33.44	8.1	25.0	1.26
I1	01 Feb 2022	34	13.62	83.67	6.4	33.44	8.1	25.1	1.25
I1	01 Feb 2022	35	13.53	83.77	6.3	33.44	8.0	25.1	1.20
I1	01 Feb 2022	36	13.36	83.87	6.3	33.44	8.0	25.1	1.19
I1	01 Feb 2022	37	13.30	83.92	6.2	33.44	8.0	25.1	1.16
I1	01 Feb 2022	38	13.16	83.79	6.1	33.46	8.0	25.2	1.14
I1	01 Feb 2022	39	13.15	83.85	6.1	33.46	8.0	25.2	1.09
I1	01 Feb 2022	40	13.13	83.79	6.1	33.47	8.0	25.2	1.08
I1	01 Feb 2022	41	13.11	83.77	6.0	33.47	8.0	25.2	1.09
I1	01 Feb 2022	42	13.10	83.79	6.0	33.47	8.0	25.2	1.07
I1	01 Feb 2022	43	13.07	83.77	6.0	33.48	8.0	25.2	1.06
I1	01 Feb 2022	44	13.00	83.75	5.9	33.48	8.0	25.2	1.04
I1	01 Feb 2022	45	12.98	83.85	5.9	33.48	8.0	25.2	1.04
I1	01 Feb 2022	46	12.80	83.83	5.7	33.49	8.0	25.3	1.01
I1	01 Feb 2022	47	12.62	83.82	5.6	33.50	8.0	25.3	0.97
I1	01 Feb 2022	48	12.61	83.84	5.6	33.51	8.0	25.3	0.93
I1	01 Feb 2022	49	12.60	83.82	5.5	33.51	8.0	25.3	0.91
I1	01 Feb 2022	50	12.58	83.84	5.6	33.51	8.0	25.3	0.90
I1	01 Feb 2022	51	12.54	83.82	5.5	33.51	7.9	25.3	0.88
I1	01 Feb 2022	52	12.48	83.78	5.4	33.52	7.9	25.3	0.86
I1	01 Feb 2022	53	12.45	83.79	5.4	33.52	7.9	25.4	0.85
I1	01 Feb 2022	54	12.45	83.80	5.4	33.52	7.9	25.4	0.86
I1	01 Feb 2022	55	12.45	83.79	5.4	33.52	7.9	25.4	0.85
I1	01 Feb 2022	56	12.45	83.79	5.4	33.52	7.9	25.4	0.83

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I1	01 Feb 2022	57	12.45	83.81	5.5	33.52	7.9	25.4	0.84
I1	01 Feb 2022	58	12.44	83.78	5.5	33.52	7.9	25.4	0.85
I1	01 Feb 2022	59	12.43	83.83	5.5	33.52	7.9	25.4	0.82
I1	01 Feb 2022	60	12.42	83.78	5.4	33.53	7.9	25.4	0.83
I10	01 Feb 2022	1	14.75	67.60	8.8	33.42	8.2	24.8	9.40
I10	01 Feb 2022	2	14.74	67.62	8.8	33.42	8.2	24.8	10.03
I10	01 Feb 2022	3	14.73	67.31	8.8	33.42	8.2	24.8	10.92
I10	01 Feb 2022	4	14.74	67.02	8.8	33.42	8.2	24.8	12.24
I10	01 Feb 2022	5	14.73	67.06	8.6	33.42	8.2	24.8	12.26
I10	01 Feb 2022	6	14.70	68.12	8.5	33.42	8.2	24.8	11.66
I10	01 Feb 2022	7	14.69	69.62	8.5	33.42	8.2	24.8	10.35
I10	01 Feb 2022	8	14.68	70.72	8.3	33.42	8.2	24.8	9.40
I10	01 Feb 2022	9	14.66	72.43	8.3	33.42	8.2	24.8	8.09
I10	01 Feb 2022	10	14.66	73.04	8.4	33.42	8.2	24.8	7.26
I10	01 Feb 2022	11	14.66	73.23	8.3	33.42	8.2	24.8	6.78
I10	01 Feb 2022	12	14.66	73.53	8.2	33.42	8.2	24.8	6.41
I10	01 Feb 2022	13	14.65	74.04	8.2	33.43	8.2	24.8	6.18
I10	01 Feb 2022	14	14.65	74.41	8.2	33.43	8.2	24.8	5.80
I10	01 Feb 2022	15	14.64	74.79	8.0	33.43	8.2	24.8	5.16
I10	01 Feb 2022	16	14.63	76.12	7.9	33.43	8.2	24.8	4.25
I10	01 Feb 2022	17	14.62	76.67	7.8	33.43	8.2	24.8	3.28
I10	01 Feb 2022	18	14.59	76.16	7.6	33.44	8.2	24.9	2.54
I10	01 Feb 2022	19	14.58	75.35	7.5	33.44	8.1	24.9	1.90
I11	01 Feb 2022	1	14.98	71.57	8.3	33.40	8.2	24.7	2.32
I11	01 Feb 2022	2	14.99	71.81	8.3	33.40	8.2	24.7	2.27
I11	01 Feb 2022	3	14.99	71.96	8.3	33.40	8.2	24.7	2.42
I11	01 Feb 2022	4	14.97	71.73	8.3	33.40	8.2	24.7	2.89
I11	01 Feb 2022	5	14.95	71.63	8.3	33.40	8.2	24.8	3.61
I11	01 Feb 2022	6	14.93	71.74	8.3	33.40	8.2	24.8	4.31
I11	01 Feb 2022	7	14.91	72.35	8.2	33.41	8.2	24.8	4.66
I11	01 Feb 2022	8	14.89	72.99	8.2	33.41	8.2	24.8	4.52
I11	01 Feb 2022	9	14.89	72.97	8.2	33.41	8.2	24.8	4.07
I11	01 Feb 2022	10	14.88	73.49	8.1	33.42	8.2	24.8	3.71
I11	01 Feb 2022	11	14.87	74.32	8.1	33.42	8.2	24.8	3.39
I11	01 Feb 2022	12	14.86	74.83	8.0	33.42	8.2	24.8	2.93
I11	01 Feb 2022	13	14.84	74.75	7.9	33.42	8.2	24.8	2.49
I12	03 Feb 2022	1	14.72	81.35	7.6	33.41	8.1	24.8	1.01
I12	03 Feb 2022	2	14.69	80.46	7.6	33.41	8.1	24.8	1.02
I12	03 Feb 2022	3	14.65	80.94	7.6	33.41	8.1	24.8	1.07
I12	03 Feb 2022	4	14.64	80.76	7.6	33.41	8.1	24.8	1.17
I12	03 Feb 2022	5	14.63	80.57	7.6	33.41	8.1	24.8	1.29
I12	03 Feb 2022	6	14.63	80.50	7.6	33.41	8.1	24.8	1.42
I12	03 Feb 2022	7	14.62	80.55	7.6	33.41	8.1	24.8	1.59
I12	03 Feb 2022	8	14.62	80.26	7.6	33.41	8.1	24.8	1.64
I12	03 Feb 2022	9	14.61	80.56	7.6	33.41	8.1	24.8	1.72
I12	03 Feb 2022	10	14.61	80.42	7.5	33.41	8.1	24.8	1.82
I12	03 Feb 2022	11	14.61	80.48	7.6	33.41	8.1	24.8	1.91
I12	03 Feb 2022	12	14.60	80.48	7.6	33.41	8.1	24.8	2.03
I12	03 Feb 2022	13	14.60	80.60	7.6	33.41	8.1	24.8	2.20
I12	03 Feb 2022	14	14.60	80.52	7.6	33.41	8.1	24.8	2.15
I12	03 Feb 2022	15	14.58	80.63	7.5	33.41	8.1	24.8	2.07
I12	03 Feb 2022	16	14.55	80.68	7.5	33.41	8.1	24.8	2.07
I12	03 Feb 2022	17	14.51	80.69	7.3	33.41	8.1	24.9	2.07
I12	03 Feb 2022	18	14.37	80.85	7.2	33.40	8.1	24.9	2.01
I12	03 Feb 2022	19	14.32	80.82	7.0	33.42	8.1	24.9	2.03
I12	03 Feb 2022	20	14.28	80.79	6.9	33.42	8.1	24.9	2.15
I12	03 Feb 2022	21	14.22	80.76	6.8	33.42	8.1	24.9	2.13
I12	03 Feb 2022	22	13.98	80.60	6.7	33.42	8.1	25.0	2.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I12	03 Feb 2022	23	13.87	80.14	6.6	33.41	8.1	25.0	1.92
I12	03 Feb 2022	24	13.84	80.07	6.6	33.41	8.1	25.0	1.77
I12	03 Feb 2022	25	13.81	79.83	6.6	33.41	8.1	25.0	1.66
I12	03 Feb 2022	26	13.73	79.70	6.6	33.41	8.0	25.0	1.57
I12	03 Feb 2022	27	13.56	79.67	6.5	33.41	8.0	25.0	1.49
I12	03 Feb 2022	28	13.51	79.27	6.5	33.40	8.0	25.1	1.44
I13	03 Feb 2022	1	15.40	83.65	7.8	33.45	8.2	24.7	0.72
I13	03 Feb 2022	2	15.40	83.61	7.8	33.45	8.2	24.7	0.73
I13	03 Feb 2022	3	15.34	83.48	7.8	33.45	8.2	24.7	0.74
I13	03 Feb 2022	4	15.27	83.24	7.8	33.45	8.2	24.7	0.76
I13	03 Feb 2022	5	15.26	83.15	7.8	33.45	8.2	24.7	0.81
I13	03 Feb 2022	6	15.22	82.98	7.8	33.45	8.2	24.7	0.85
I13	03 Feb 2022	7	15.21	82.82	7.8	33.45	8.2	24.7	0.90
I13	03 Feb 2022	8	15.20	82.77	7.8	33.44	8.2	24.7	0.94
I13	03 Feb 2022	9	15.18	82.71	7.8	33.44	8.2	24.7	1.00
I13	03 Feb 2022	10	15.15	82.58	7.8	33.44	8.2	24.7	1.11
I13	03 Feb 2022	11	15.12	82.36	7.8	33.44	8.2	24.7	1.21
I13	03 Feb 2022	12	15.11	82.18	7.8	33.44	8.2	24.7	1.28
I13	03 Feb 2022	13	15.09	82.05	7.8	33.44	8.2	24.8	1.40
I13	03 Feb 2022	14	15.05	81.81	7.8	33.44	8.2	24.8	1.51
I13	03 Feb 2022	15	15.01	81.54	7.8	33.44	8.2	24.8	1.70
I13	03 Feb 2022	16	14.97	81.36	7.8	33.44	8.2	24.8	1.89
I13	03 Feb 2022	17	14.94	81.10	7.9	33.44	8.2	24.8	2.11
I13	03 Feb 2022	18	14.92	80.86	7.9	33.44	8.2	24.8	2.27
I13	03 Feb 2022	19	14.90	80.68	7.9	33.44	8.2	24.8	2.42
I13	03 Feb 2022	20	14.87	80.60	7.9	33.44	8.2	24.8	2.52
I13	03 Feb 2022	21	14.86	80.32	7.9	33.44	8.2	24.8	2.67
I13	03 Feb 2022	22	14.84	80.22	7.9	33.44	8.2	24.8	2.73
I13	03 Feb 2022	23	14.82	80.13	7.8	33.44	8.2	24.8	2.63
I13	03 Feb 2022	24	14.79	80.15	7.8	33.44	8.2	24.8	2.69
I13	03 Feb 2022	25	14.78	80.23	7.8	33.44	8.2	24.8	2.83
I13	03 Feb 2022	26	14.76	80.23	7.8	33.44	8.2	24.8	2.73
I13	03 Feb 2022	27	14.74	80.31	7.8	33.44	8.2	24.8	2.55
I13	03 Feb 2022	28	14.70	80.34	7.7	33.44	8.2	24.8	2.40
I13	03 Feb 2022	29	14.67	80.53	7.7	33.44	8.2	24.8	2.36
I13	03 Feb 2022	30	14.63	80.73	7.5	33.44	8.2	24.9	2.32
I13	03 Feb 2022	31	14.31	80.83	7.0	33.43	8.1	24.9	2.14
I13	03 Feb 2022	32	14.02	80.63	6.7	33.42	8.1	25.0	1.95
I13	03 Feb 2022	33	13.86	80.45	6.7	33.41	8.1	25.0	1.83
I13	03 Feb 2022	34	13.71	80.48	6.6	33.41	8.1	25.0	1.64
I13	03 Feb 2022	35	13.50	80.58	6.5	33.40	8.1	25.1	1.56
I13	03 Feb 2022	36	13.45	80.80	6.4	33.39	8.0	25.1	1.53
I13	03 Feb 2022	37	13.42	80.88	6.4	33.39	8.0	25.1	1.49
I13	03 Feb 2022	38	13.42	80.95	6.4	33.39	8.0	25.1	1.47
I14	03 Feb 2022	1	14.89	82.05	7.7	33.44	8.1	24.8	1.02
I14	03 Feb 2022	2	14.78	79.10	7.7	33.44	8.1	24.8	1.02
I14	03 Feb 2022	3	14.72	81.43	7.8	33.44	8.1	24.8	1.13
I14	03 Feb 2022	4	14.71	80.74	7.8	33.44	8.1	24.8	1.22
I14	03 Feb 2022	5	14.70	80.83	7.7	33.44	8.1	24.8	1.33
I14	03 Feb 2022	6	14.69	80.75	7.8	33.44	8.2	24.8	1.45
I14	03 Feb 2022	7	14.68	80.72	7.8	33.43	8.2	24.8	1.55
I14	03 Feb 2022	8	14.68	80.68	7.7	33.44	8.2	24.8	1.71
I14	03 Feb 2022	9	14.67	80.44	7.7	33.44	8.2	24.8	1.81
I14	03 Feb 2022	10	14.66	80.68	7.7	33.43	8.1	24.8	1.97
I14	03 Feb 2022	11	14.66	80.61	7.7	33.43	8.1	24.8	2.04
I14	03 Feb 2022	12	14.66	80.71	7.7	33.44	8.1	24.8	2.12
I14	03 Feb 2022	13	14.64	80.69	7.6	33.44	8.1	24.8	2.35
I14	03 Feb 2022	14	14.58	80.67	7.5	33.44	8.1	24.9	2.38
I14	03 Feb 2022	15	14.54	80.71	7.5	33.44	8.1	24.9	2.38

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I14	03 Feb 2022	16	14.50	80.54	7.4	33.44	8.1	24.9	2.40
I14	03 Feb 2022	17	14.49	80.33	7.4	33.44	8.1	24.9	2.48
I14	03 Feb 2022	18	14.48	80.27	7.4	33.44	8.1	24.9	2.47
I14	03 Feb 2022	19	14.47	80.22	7.4	33.44	8.1	24.9	2.46
I14	03 Feb 2022	20	14.46	80.08	7.2	33.44	8.1	24.9	2.37
I14	03 Feb 2022	21	14.43	79.92	7.2	33.44	8.1	24.9	2.25
I14	03 Feb 2022	22	14.32	79.89	7.0	33.44	8.1	24.9	2.23
I14	03 Feb 2022	23	14.13	79.38	6.8	33.43	8.1	24.9	2.05
I14	03 Feb 2022	24	13.99	78.92	6.7	33.42	8.1	25.0	1.81
I14	03 Feb 2022	25	13.89	78.95	6.6	33.42	8.1	25.0	1.76
I14	03 Feb 2022	26	13.82	79.19	6.5	33.42	8.1	25.0	1.78
I14	03 Feb 2022	27	13.61	78.95	6.5	33.41	8.1	25.0	1.67
I14	03 Feb 2022	28	13.40	78.42	6.4	33.40	8.0	25.1	1.62
I15	03 Feb 2022	1	14.78	80.96	7.6	33.41	8.1	24.8	1.03
I15	03 Feb 2022	2	14.66	80.81	7.6	33.41	8.1	24.8	1.11
I15	03 Feb 2022	3	14.62	80.48	7.6	33.40	8.1	24.8	1.22
I15	03 Feb 2022	4	14.61	80.28	7.6	33.40	8.1	24.8	1.26
I15	03 Feb 2022	5	14.60	79.99	7.6	33.40	8.1	24.8	1.35
I15	03 Feb 2022	6	14.59	79.94	7.6	33.41	8.1	24.8	1.52
I15	03 Feb 2022	7	14.59	79.98	7.6	33.41	8.1	24.8	1.69
I15	03 Feb 2022	8	14.60	79.89	7.7	33.41	8.1	24.8	1.90
I15	03 Feb 2022	9	14.63	80.02	7.7	33.42	8.1	24.8	2.06
I15	03 Feb 2022	10	14.65	80.16	7.7	33.43	8.1	24.8	2.16
I15	03 Feb 2022	11	14.65	80.20	7.7	33.44	8.1	24.8	2.25
I15	03 Feb 2022	12	14.65	80.27	7.8	33.44	8.1	24.8	2.29
I15	03 Feb 2022	13	14.64	80.32	7.7	33.44	8.1	24.8	2.30
I15	03 Feb 2022	14	14.61	80.33	7.7	33.44	8.1	24.9	2.35
I15	03 Feb 2022	15	14.58	80.46	7.6	33.44	8.1	24.9	2.31
I15	03 Feb 2022	16	14.56	80.46	7.5	33.44	8.1	24.9	2.26
I15	03 Feb 2022	17	14.54	80.39	7.5	33.44	8.1	24.9	2.42
I15	03 Feb 2022	18	14.51	80.25	7.5	33.44	8.1	24.9	2.49
I15	03 Feb 2022	19	14.50	80.22	7.5	33.44	8.1	24.9	2.56
I15	03 Feb 2022	20	14.49	80.03	7.5	33.44	8.1	24.9	2.48
I15	03 Feb 2022	21	14.48	80.01	7.5	33.44	8.1	24.9	2.47
I15	03 Feb 2022	22	14.48	79.87	7.5	33.44	8.1	24.9	2.47
I15	03 Feb 2022	23	14.47	79.91	7.4	33.44	8.1	24.9	2.37
I15	03 Feb 2022	24	14.46	79.86	7.3	33.44	8.1	24.9	2.35
I15	03 Feb 2022	25	14.31	79.91	7.1	33.44	8.1	24.9	2.26
I15	03 Feb 2022	26	14.20	79.79	6.9	33.43	8.1	24.9	1.95
I15	03 Feb 2022	27	14.03	78.92	6.8	33.43	8.1	25.0	1.79
I15	03 Feb 2022	28	13.89	78.74	6.6	33.42	8.1	25.0	1.65
I15	03 Feb 2022	29	13.75	78.85	6.5	33.41	8.1	25.0	1.56
I15	03 Feb 2022	30	13.48	79.14	6.4	33.41	8.0	25.1	1.49
I15	03 Feb 2022	31	13.35	79.52	6.3	33.40	8.0	25.1	1.43
I16	03 Feb 2022	1	14.65	80.15	7.6	33.39	8.1	24.8	1.02
I16	03 Feb 2022	2	14.64	79.99	7.6	33.39	8.1	24.8	1.01
I16	03 Feb 2022	3	14.62	80.17	7.6	33.39	8.1	24.8	1.05
I16	03 Feb 2022	4	14.62	80.15	7.6	33.39	8.1	24.8	1.13
I16	03 Feb 2022	5	14.60	79.92	7.6	33.39	8.1	24.8	1.19
I16	03 Feb 2022	6	14.60	79.90	7.6	33.40	8.1	24.8	1.39
I16	03 Feb 2022	7	14.59	79.94	7.6	33.40	8.1	24.8	1.61
I16	03 Feb 2022	8	14.59	79.97	7.6	33.40	8.1	24.8	1.66
I16	03 Feb 2022	9	14.59	79.74	7.6	33.40	8.1	24.8	1.73
I16	03 Feb 2022	10	14.60	80.00	7.6	33.40	8.1	24.8	1.86
I16	03 Feb 2022	11	14.61	79.95	7.6	33.41	8.1	24.8	2.05
I16	03 Feb 2022	12	14.63	80.09	7.7	33.41	8.1	24.8	2.14
I16	03 Feb 2022	13	14.65	80.04	7.7	33.42	8.1	24.8	2.17
I16	03 Feb 2022	14	14.65	80.21	7.7	33.43	8.1	24.8	2.31
I16	03 Feb 2022	15	14.63	80.37	7.6	33.43	8.1	24.8	2.26

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I16	03 Feb 2022	16	14.56	80.54	7.5	33.42	8.1	24.9	2.26
I16	03 Feb 2022	17	14.48	80.53	7.4	33.42	8.1	24.9	2.26
I16	03 Feb 2022	18	14.43	80.27	7.2	33.43	8.1	24.9	2.25
I16	03 Feb 2022	19	14.35	80.27	7.1	33.43	8.1	24.9	2.18
I16	03 Feb 2022	20	14.23	79.78	7.0	33.43	8.1	24.9	2.07
I16	03 Feb 2022	21	14.16	79.30	6.9	33.43	8.1	24.9	1.96
I16	03 Feb 2022	22	14.09	79.07	6.9	33.42	8.1	24.9	1.93
I16	03 Feb 2022	23	14.04	79.32	6.8	33.42	8.1	25.0	1.83
I16	03 Feb 2022	24	14.00	79.34	6.8	33.42	8.1	25.0	1.78
I16	03 Feb 2022	25	13.94	79.30	6.7	33.42	8.1	25.0	1.78
I16	03 Feb 2022	26	13.79	79.51	6.6	33.41	8.1	25.0	1.76
I16	03 Feb 2022	27	13.52	79.11	6.4	33.41	8.1	25.1	1.65
I16	03 Feb 2022	28	13.56	77.73	6.4	33.40	8.0	25.0	1.56
I17	03 Feb 2022	1	14.72	81.08	7.7	33.43	8.1	24.8	0.93
I17	03 Feb 2022	2	14.72	81.25	7.7	33.43	8.1	24.8	0.99
I17	03 Feb 2022	3	14.70	81.29	7.7	33.43	8.1	24.8	1.00
I17	03 Feb 2022	4	14.70	81.30	7.7	33.43	8.1	24.8	1.04
I17	03 Feb 2022	5	14.69	81.04	7.7	33.43	8.1	24.8	1.09
I17	03 Feb 2022	6	14.69	80.98	7.7	33.43	8.1	24.8	1.23
I17	03 Feb 2022	7	14.68	81.07	7.6	33.43	8.1	24.8	1.38
I17	03 Feb 2022	8	14.68	81.08	7.7	33.43	8.1	24.8	1.46
I17	03 Feb 2022	9	14.67	80.97	7.7	33.43	8.1	24.8	1.57
I17	03 Feb 2022	10	14.66	81.05	7.7	33.43	8.1	24.8	1.68
I17	03 Feb 2022	11	14.66	81.08	7.7	33.43	8.1	24.8	1.76
I17	03 Feb 2022	12	14.63	81.07	7.6	33.43	8.1	24.8	1.79
I17	03 Feb 2022	13	14.59	81.02	7.5	33.42	8.1	24.8	1.95
I17	03 Feb 2022	14	14.57	80.95	7.5	33.42	8.1	24.8	2.05
I17	03 Feb 2022	15	14.50	80.85	7.2	33.41	8.1	24.9	1.96
I17	03 Feb 2022	16	14.10	80.83	6.8	33.42	8.1	24.9	1.88
I17	03 Feb 2022	17	14.02	80.67	6.7	33.41	8.1	25.0	1.84
I17	03 Feb 2022	18	14.01	80.24	6.7	33.41	8.1	25.0	1.76
I17	03 Feb 2022	19	13.99	80.03	6.7	33.41	8.1	25.0	1.76
I17	03 Feb 2022	20	13.96	80.02	6.7	33.41	8.1	25.0	1.73
I17	03 Feb 2022	21	13.94	79.80	6.7	33.41	8.1	25.0	1.85
I17	03 Feb 2022	22	13.93	79.70	6.7	33.41	8.1	25.0	1.80
I17	03 Feb 2022	23	13.94	79.85	6.6	33.41	8.1	25.0	1.73
I17	03 Feb 2022	24	13.83	79.87	6.6	33.41	8.1	25.0	1.81
I17	03 Feb 2022	25	13.74	79.46	6.6	33.41	8.0	25.0	1.64
I18	03 Feb 2022	1	14.69	81.05	7.8	33.44	8.1	24.8	1.09
I18	03 Feb 2022	2	14.67	81.08	7.8	33.44	8.1	24.8	1.10
I18	03 Feb 2022	3	14.66	80.76	7.8	33.44	8.1	24.8	1.19
I18	03 Feb 2022	4	14.66	80.71	7.8	33.44	8.1	24.8	1.25
I18	03 Feb 2022	5	14.66	80.66	7.8	33.44	8.1	24.8	1.31
I18	03 Feb 2022	6	14.65	80.62	7.8	33.44	8.1	24.8	1.39
I18	03 Feb 2022	7	14.65	80.50	7.8	33.44	8.1	24.8	1.60
I18	03 Feb 2022	8	14.65	80.51	7.8	33.44	8.1	24.8	1.81
I18	03 Feb 2022	9	14.65	80.55	7.8	33.44	8.1	24.8	1.94
I18	03 Feb 2022	10	14.65	80.65	7.8	33.44	8.1	24.8	2.04
I18	03 Feb 2022	11	14.64	80.40	7.8	33.44	8.1	24.8	1.98
I18	03 Feb 2022	12	14.64	80.59	7.8	33.44	8.1	24.8	2.03
I18	03 Feb 2022	13	14.64	80.70	7.8	33.44	8.1	24.8	2.02
I18	03 Feb 2022	14	14.64	80.76	7.8	33.44	8.1	24.8	1.98
I18	03 Feb 2022	15	14.63	80.71	7.7	33.44	8.1	24.8	1.93
I18	03 Feb 2022	16	14.62	80.64	7.6	33.44	8.1	24.9	1.95
I18	03 Feb 2022	17	14.62	80.81	7.6	33.44	8.1	24.9	1.92
I18	03 Feb 2022	18	14.59	80.86	7.6	33.44	8.1	24.9	1.79
I18	03 Feb 2022	19	14.56	80.95	7.5	33.44	8.1	24.9	1.77
I2	01 Feb 2022	1	14.94	80.82	7.9	33.43	8.2	24.8	1.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I2	01 Feb 2022	2	14.93	80.87	7.8	33.43	8.2	24.8	1.91
I2	01 Feb 2022	3	14.93	80.87	7.8	33.43	8.2	24.8	1.92
I2	01 Feb 2022	4	14.93	80.90	7.8	33.43	8.2	24.8	2.09
I2	01 Feb 2022	5	14.93	81.01	7.9	33.43	8.2	24.8	2.32
I2	01 Feb 2022	6	14.93	80.80	7.8	33.43	8.2	24.8	2.41
I2	01 Feb 2022	7	14.93	80.88	7.9	33.43	8.2	24.8	2.49
I2	01 Feb 2022	8	14.93	80.99	7.9	33.43	8.2	24.8	2.48
I2	01 Feb 2022	9	14.93	81.03	7.9	33.43	8.2	24.8	2.40
I2	01 Feb 2022	10	14.93	81.04	7.9	33.43	8.2	24.8	2.53
I2	01 Feb 2022	11	14.93	81.10	7.9	33.43	8.2	24.8	2.39
I2	01 Feb 2022	12	14.92	81.05	7.9	33.43	8.2	24.8	2.56
I2	01 Feb 2022	13	14.91	81.02	7.9	33.43	8.2	24.8	2.47
I2	01 Feb 2022	14	14.90	81.32	7.9	33.43	8.2	24.8	2.34
I2	01 Feb 2022	15	14.83	81.52	7.8	33.43	8.2	24.8	2.24
I2	01 Feb 2022	16	14.66	81.53	7.7	33.44	8.2	24.8	1.98
I2	01 Feb 2022	17	14.58	81.69	7.6	33.44	8.1	24.9	1.79
I2	01 Feb 2022	18	14.52	81.83	7.6	33.44	8.1	24.9	1.79
I2	01 Feb 2022	19	14.51	81.80	7.5	33.44	8.1	24.9	1.63
I2	01 Feb 2022	20	14.50	81.70	7.5	33.44	8.1	24.9	1.65
I2	01 Feb 2022	21	14.49	81.89	7.6	33.44	8.1	24.9	1.64
I2	01 Feb 2022	22	14.48	81.79	7.5	33.44	8.1	24.9	1.66
I2	01 Feb 2022	23	14.45	81.67	7.4	33.44	8.1	24.9	1.56
I2	01 Feb 2022	24	14.44	81.51	7.3	33.45	8.1	24.9	1.47
I2	01 Feb 2022	25	14.43	81.71	7.2	33.45	8.1	24.9	1.44
I2	01 Feb 2022	26	14.41	81.65	7.2	33.45	8.1	24.9	1.34
I2	01 Feb 2022	27	14.39	81.54	7.2	33.45	8.1	24.9	1.30
I2	01 Feb 2022	28	14.39	81.48	7.2	33.45	8.1	24.9	1.25
I2	01 Feb 2022	29	14.38	81.22	7.2	33.45	8.1	24.9	1.25
I2	01 Feb 2022	30	14.37	81.07	7.3	33.45	8.1	24.9	1.19
I2	01 Feb 2022	31	14.37	80.66	7.3	33.45	8.1	24.9	1.15
I2	01 Feb 2022	32	14.37	80.27	7.2	33.45	8.1	24.9	1.11
I20	03 Feb 2022	1	15.42	84.42	7.8	33.44	8.2	24.7	0.64
I20	03 Feb 2022	2	15.42	84.42	7.8	33.44	8.2	24.7	0.63
I20	03 Feb 2022	3	15.43	84.38	7.8	33.44	8.2	24.7	0.63
I20	03 Feb 2022	4	15.43	84.42	7.8	33.44	8.2	24.7	0.64
I20	03 Feb 2022	5	15.43	84.43	7.8	33.44	8.2	24.7	0.64
I20	03 Feb 2022	6	15.43	84.42	7.8	33.44	8.2	24.7	0.66
I20	03 Feb 2022	7	15.43	84.42	7.7	33.44	8.2	24.7	0.66
I20	03 Feb 2022	8	15.42	84.46	7.8	33.44	8.2	24.7	0.68
I20	03 Feb 2022	9	15.42	84.47	7.8	33.44	8.2	24.7	0.67
I20	03 Feb 2022	10	15.43	84.46	7.8	33.44	8.2	24.7	0.69
I20	03 Feb 2022	11	15.43	84.28	7.7	33.44	8.2	24.7	0.70
I20	03 Feb 2022	12	15.43	84.44	7.8	33.44	8.2	24.7	0.71
I20	03 Feb 2022	13	15.43	84.45	7.8	33.44	8.2	24.7	0.72
I20	03 Feb 2022	14	15.43	84.44	7.8	33.44	8.2	24.7	0.75
I20	03 Feb 2022	15	15.43	84.44	7.8	33.44	8.2	24.7	0.75
I20	03 Feb 2022	16	15.43	84.44	7.7	33.44	8.2	24.7	0.77
I20	03 Feb 2022	17	15.43	84.43	7.7	33.44	8.2	24.7	0.76
I20	03 Feb 2022	18	15.43	84.44	7.8	33.44	8.2	24.7	0.76
I20	03 Feb 2022	19	15.43	84.44	7.8	33.44	8.2	24.7	0.79
I20	03 Feb 2022	20	15.40	84.41	7.7	33.43	8.2	24.7	0.88
I20	03 Feb 2022	21	15.15	83.62	7.7	33.42	8.2	24.7	1.29
I20	03 Feb 2022	22	15.06	83.08	7.7	33.41	8.1	24.7	1.73
I20	03 Feb 2022	23	14.99	83.01	7.6	33.40	8.1	24.7	1.97
I20	03 Feb 2022	24	14.93	83.14	7.6	33.41	8.1	24.8	2.03
I20	03 Feb 2022	25	14.91	83.30	7.6	33.41	8.1	24.8	2.01
I20	03 Feb 2022	26	14.90	83.38	7.6	33.41	8.1	24.8	2.00
I20	03 Feb 2022	27	14.88	83.45	7.6	33.41	8.1	24.8	1.93
I20	03 Feb 2022	28	14.87	83.62	7.6	33.41	8.1	24.8	1.93
I20	03 Feb 2022	29	14.77	83.62	7.4	33.41	8.1	24.8	1.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I20	03 Feb 2022	30	14.62	83.75	7.3	33.40	8.1	24.8	1.88
I20	03 Feb 2022	31	14.50	83.90	7.2	33.40	8.1	24.8	1.83
I20	03 Feb 2022	32	14.38	84.07	7.1	33.39	8.1	24.9	1.78
I20	03 Feb 2022	33	14.22	84.12	7.0	33.39	8.1	24.9	1.71
I20	03 Feb 2022	34	14.06	84.04	6.9	33.38	8.1	24.9	1.66
I20	03 Feb 2022	35	14.00	84.04	6.8	33.38	8.1	24.9	1.61
I20	03 Feb 2022	36	13.91	84.03	6.8	33.38	8.1	25.0	1.66
I20	03 Feb 2022	37	13.88	84.12	6.8	33.38	8.1	25.0	1.60
I20	03 Feb 2022	38	13.82	84.11	6.7	33.38	8.1	25.0	1.53
I20	03 Feb 2022	39	13.80	84.09	6.7	33.37	8.1	25.0	1.51
I20	03 Feb 2022	40	13.76	84.14	6.7	33.37	8.1	25.0	1.48
I20	03 Feb 2022	41	13.66	83.97	6.6	33.38	8.0	25.0	1.46
I20	03 Feb 2022	42	13.59	83.78	6.6	33.38	8.0	25.0	1.54
I20	03 Feb 2022	43	13.52	83.74	6.5	33.38	8.0	25.0	1.46
I20	03 Feb 2022	44	13.42	83.69	6.3	33.38	8.0	25.1	1.42
I20	03 Feb 2022	45	13.23	83.70	6.3	33.39	8.0	25.1	1.35
I20	03 Feb 2022	46	13.07	83.83	6.2	33.39	8.0	25.1	1.30
I20	03 Feb 2022	47	12.89	83.89	6.0	33.39	8.0	25.2	1.23
I20	03 Feb 2022	48	12.79	84.10	6.0	33.40	8.0	25.2	1.15
I20	03 Feb 2022	49	12.77	84.07	5.9	33.41	8.0	25.2	1.10
I20	03 Feb 2022	50	12.63	84.02	5.8	33.44	8.0	25.3	1.04
I20	03 Feb 2022	51	12.59	84.02	5.7	33.44	8.0	25.3	1.00
I20	03 Feb 2022	52	12.42	84.09	5.5	33.47	8.0	25.3	0.97
I20	03 Feb 2022	53	12.25	84.09	5.3	33.51	7.9	25.4	0.88
I20	03 Feb 2022	54	12.18	84.01	5.2	33.53	7.9	25.4	0.80
I20	03 Feb 2022	55	12.12	83.72	5.1	33.55	7.9	25.4	0.77
I21	03 Feb 2022	1	15.41	84.64	7.8	33.44	8.2	24.7	0.62
I21	03 Feb 2022	2	15.41	84.65	7.8	33.44	8.2	24.7	0.62
I21	03 Feb 2022	3	15.41	84.68	7.8	33.44	8.2	24.7	0.62
I21	03 Feb 2022	4	15.40	84.58	7.7	33.44	8.2	24.7	0.64
I21	03 Feb 2022	5	15.36	84.48	7.7	33.44	8.2	24.7	0.68
I21	03 Feb 2022	6	15.26	84.22	7.7	33.44	8.2	24.7	0.77
I21	03 Feb 2022	7	15.17	83.84	7.7	33.43	8.2	24.7	0.87
I21	03 Feb 2022	8	15.15	83.74	7.6	33.43	8.1	24.7	0.95
I21	03 Feb 2022	9	15.02	83.59	7.6	33.43	8.1	24.8	1.05
I21	03 Feb 2022	10	14.98	83.25	7.6	33.43	8.1	24.8	1.19
I21	03 Feb 2022	11	14.95	83.08	7.6	33.43	8.1	24.8	1.31
I21	03 Feb 2022	12	14.95	82.86	7.6	33.43	8.1	24.8	1.40
I21	03 Feb 2022	13	14.92	82.59	7.6	33.43	8.1	24.8	1.42
I21	03 Feb 2022	14	14.90	82.57	7.6	33.43	8.1	24.8	1.46
I21	03 Feb 2022	15	14.87	82.55	7.6	33.43	8.1	24.8	1.51
I21	03 Feb 2022	16	14.79	82.50	7.5	33.43	8.1	24.8	1.55
I21	03 Feb 2022	17	14.74	82.49	7.5	33.42	8.1	24.8	1.51
I21	03 Feb 2022	18	14.64	82.37	7.3	33.42	8.1	24.8	1.49
I21	03 Feb 2022	19	14.32	82.25	7.1	33.41	8.1	24.9	1.52
I21	03 Feb 2022	20	14.27	81.80	6.9	33.40	8.1	24.9	1.57
I21	03 Feb 2022	21	13.89	81.60	6.6	33.40	8.1	25.0	1.51
I21	03 Feb 2022	22	13.50	82.16	6.4	33.40	8.1	25.1	1.45
I21	03 Feb 2022	23	13.40	82.52	6.3	33.39	8.0	25.1	1.38
I21	03 Feb 2022	24	13.33	82.67	6.3	33.39	8.0	25.1	1.29
I21	03 Feb 2022	25	13.32	82.70	6.4	33.39	8.0	25.1	1.25
I21	03 Feb 2022	26	13.30	82.61	6.4	33.39	8.0	25.1	1.23
I21	03 Feb 2022	27	13.30	82.69	6.4	33.39	8.0	25.1	1.23
I21	03 Feb 2022	28	13.30	82.52	6.4	33.39	8.0	25.1	1.23
I21	03 Feb 2022	29	13.29	82.59	6.4	33.39	8.0	25.1	1.26
I21	03 Feb 2022	30	13.29	82.65	6.4	33.39	8.0	25.1	1.27
I21	03 Feb 2022	31	13.29	82.53	6.3	33.39	8.0	25.1	1.26
I21	03 Feb 2022	32	13.29	82.62	6.3	33.40	8.0	25.1	1.24
I21	03 Feb 2022	33	13.29	82.64	6.4	33.40	8.0	25.1	1.25
I21	03 Feb 2022	34	13.29	82.47	6.4	33.40	8.0	25.1	1.24

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I21	03 Feb 2022	35	13.29	82.53	6.4	33.40	8.0	25.1	1.23
I21	03 Feb 2022	36	13.29	82.61	6.4	33.40	8.0	25.1	1.24
I21	03 Feb 2022	37	13.29	82.60	6.3	33.40	8.0	25.1	1.25
I21	03 Feb 2022	38	13.29	82.61	6.4	33.40	8.0	25.1	1.25
I21	03 Feb 2022	39	13.29	82.65	6.4	33.40	8.0	25.1	1.25
I21	03 Feb 2022	40	13.29	82.50	6.3	33.40	8.0	25.1	1.26
I21	03 Feb 2022	41	13.29	82.48	6.3	33.40	8.0	25.1	1.24
I22	03 Feb 2022	1	14.59	80.54	7.7	33.44	8.1	24.9	1.30
I22	03 Feb 2022	2	14.59	80.22	7.7	33.44	8.1	24.9	1.36
I22	03 Feb 2022	3	14.59	80.84	7.7	33.44	8.1	24.9	1.39
I22	03 Feb 2022	4	14.60	80.84	7.7	33.44	8.1	24.9	1.40
I22	03 Feb 2022	5	14.59	81.04	7.7	33.44	8.1	24.9	1.36
I22	03 Feb 2022	6	14.59	81.03	7.7	33.44	8.1	24.9	1.49
I22	03 Feb 2022	7	14.59	80.89	7.7	33.44	8.1	24.9	1.64
I22	03 Feb 2022	8	14.59	81.04	7.7	33.44	8.1	24.9	1.75
I22	03 Feb 2022	9	14.59	80.71	7.7	33.44	8.1	24.9	1.86
I22	03 Feb 2022	10	14.58	80.83	7.7	33.44	8.1	24.9	1.95
I22	03 Feb 2022	11	14.57	80.90	7.7	33.44	8.1	24.9	1.98
I22	03 Feb 2022	12	14.55	80.96	7.6	33.44	8.1	24.9	2.06
I22	03 Feb 2022	13	14.52	80.95	7.5	33.44	8.1	24.9	2.06
I22	03 Feb 2022	14	14.51	80.91	7.6	33.44	8.1	24.9	2.19
I22	03 Feb 2022	15	14.50	80.79	7.5	33.44	8.1	24.9	2.14
I22	03 Feb 2022	16	14.44	80.69	7.3	33.44	8.1	24.9	2.14
I22	03 Feb 2022	17	14.38	80.30	7.2	33.44	8.1	24.9	2.06
I22	03 Feb 2022	18	14.32	80.27	7.1	33.43	8.1	24.9	2.01
I22	03 Feb 2022	19	14.23	80.04	6.9	33.43	8.1	24.9	1.99
I22	03 Feb 2022	20	14.15	79.81	6.8	33.43	8.1	24.9	1.87
I22	03 Feb 2022	21	14.06	79.53	6.7	33.43	8.1	25.0	1.80
I22	03 Feb 2022	22	14.01	79.14	6.7	33.42	8.1	25.0	1.76
I22	03 Feb 2022	23	13.89	79.07	6.7	33.42	8.1	25.0	1.64
I22	03 Feb 2022	24	13.84	78.88	6.6	33.42	8.1	25.0	1.56
I22	03 Feb 2022	25	13.82	78.42	6.6	33.42	8.0	25.0	1.53
I22	03 Feb 2022	26	13.78	78.22	6.5	33.42	8.0	25.0	1.52
I22	03 Feb 2022	27	13.44	77.94	6.4	33.41	8.0	25.1	1.47
I22	03 Feb 2022	28	13.32	77.61	6.3	33.40	8.0	25.1	1.42
I23	03 Feb 2022	1	14.64	79.65	8.0	33.44	8.2	24.8	1.43
I23	03 Feb 2022	2	14.64	79.63	8.0	33.44	8.2	24.8	1.49
I23	03 Feb 2022	3	14.64	79.59	7.9	33.44	8.2	24.8	1.52
I23	03 Feb 2022	4	14.63	79.62	7.9	33.44	8.2	24.9	1.57
I23	03 Feb 2022	5	14.62	79.65	7.9	33.44	8.2	24.9	1.71
I23	03 Feb 2022	6	14.62	79.68	7.9	33.44	8.2	24.9	1.93
I23	03 Feb 2022	7	14.61	79.84	7.8	33.44	8.2	24.9	1.96
I23	03 Feb 2022	8	14.61	79.97	7.8	33.44	8.2	24.9	2.06
I23	03 Feb 2022	9	14.60	80.08	7.8	33.44	8.1	24.9	2.09
I23	03 Feb 2022	10	14.60	79.98	7.8	33.44	8.1	24.9	2.30
I23	03 Feb 2022	11	14.59	80.28	7.7	33.44	8.1	24.9	2.21
I23	03 Feb 2022	12	14.58	80.34	7.6	33.44	8.1	24.9	2.15
I23	03 Feb 2022	13	14.50	79.99	7.4	33.44	8.1	24.9	1.99
I23	03 Feb 2022	14	14.43	78.78	7.2	33.44	8.1	24.9	1.92
I23	03 Feb 2022	15	14.38	76.87	7.1	33.43	8.1	24.9	1.85
I23	03 Feb 2022	16	14.29	75.15	6.9	33.43	8.1	24.9	1.79
I23	03 Feb 2022	17	14.21	74.54	6.9	33.43	8.1	24.9	1.70
I23	03 Feb 2022	18	14.17	74.65	6.8	33.42	8.1	24.9	1.71
I23	03 Feb 2022	19	14.10	75.59	6.7	33.42	8.1	24.9	1.67
I23	03 Feb 2022	20	14.03	75.68	6.7	33.42	8.1	25.0	1.72
I23	03 Feb 2022	21	14.00	75.81	6.6	33.42	8.1	25.0	1.69
I27	03 Feb 2022	1	14.56	73.37	7.7	33.44	8.1	24.9	1.38
I27	03 Feb 2022	2	14.57	78.87	7.7	33.44	8.1	24.9	1.33

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I27	03 Feb 2022	3	14.57	80.48	7.7	33.44	8.1	24.9	1.35
I27	03 Feb 2022	4	14.57	80.50	7.7	33.44	8.1	24.9	1.51
I27	03 Feb 2022	5	14.57	80.51	7.7	33.44	8.1	24.9	1.63
I27	03 Feb 2022	6	14.56	80.56	7.7	33.44	8.1	24.9	1.75
I27	03 Feb 2022	7	14.56	80.46	7.7	33.44	8.1	24.9	1.90
I27	03 Feb 2022	8	14.56	80.45	7.7	33.44	8.1	24.9	2.00
I27	03 Feb 2022	9	14.56	80.42	7.6	33.44	8.1	24.9	2.19
I27	03 Feb 2022	10	14.56	80.35	7.7	33.44	8.1	24.9	2.18
I27	03 Feb 2022	11	14.56	80.50	7.7	33.44	8.1	24.9	2.26
I27	03 Feb 2022	12	14.56	80.48	7.7	33.44	8.1	24.9	2.27
I27	03 Feb 2022	13	14.56	80.44	7.6	33.44	8.1	24.9	2.16
I27	03 Feb 2022	14	14.55	80.31	7.6	33.44	8.1	24.9	2.27
I27	03 Feb 2022	15	14.54	80.33	7.6	33.44	8.1	24.9	2.44
I27	03 Feb 2022	16	14.52	80.25	7.6	33.44	8.1	24.9	2.42
I27	03 Feb 2022	17	14.48	80.09	7.5	33.44	8.1	24.9	2.47
I27	03 Feb 2022	18	14.44	79.82	7.4	33.44	8.1	24.9	2.57
I27	03 Feb 2022	19	14.42	79.61	7.4	33.44	8.1	24.9	2.55
I27	03 Feb 2022	20	14.40	79.35	7.4	33.43	8.1	24.9	2.50
I27	03 Feb 2022	21	14.38	79.19	7.4	33.43	8.1	24.9	2.56
I27	03 Feb 2022	22	14.37	79.22	7.4	33.43	8.1	24.9	2.46
I27	03 Feb 2022	23	14.36	78.96	7.4	33.43	8.1	24.9	2.54
I27	03 Feb 2022	24	14.35	79.05	7.5	33.43	8.1	24.9	2.46
I27	03 Feb 2022	25	14.33	78.97	7.4	33.43	8.1	24.9	2.11
I27	03 Feb 2022	26	14.33	78.96	7.3	33.43	8.1	24.9	2.23
I27	03 Feb 2022	27	14.26	79.01	7.2	33.43	8.1	24.9	2.01
I27	03 Feb 2022	28	13.91	79.19	6.8	33.42	8.1	25.0	1.72
I28	04 Feb 2022	1	15.36	83.81	7.8	33.46	8.2	24.7	0.74
I28	04 Feb 2022	2	15.35	83.79	7.8	33.46	8.2	24.7	0.74
I28	04 Feb 2022	3	15.35	84.19	7.8	33.46	8.2	24.7	0.74
I28	04 Feb 2022	4	15.35	84.21	7.8	33.46	8.2	24.7	0.76
I28	04 Feb 2022	5	15.35	84.25	7.8	33.46	8.2	24.7	0.76
I28	04 Feb 2022	6	15.35	84.28	7.8	33.46	8.2	24.7	0.77
I28	04 Feb 2022	7	15.35	84.33	7.8	33.46	8.2	24.7	0.79
I28	04 Feb 2022	8	15.35	84.35	7.8	33.46	8.2	24.7	0.79
I28	04 Feb 2022	9	15.34	84.34	7.8	33.46	8.2	24.7	0.81
I28	04 Feb 2022	10	15.34	84.37	7.8	33.46	8.2	24.7	0.82
I28	04 Feb 2022	11	15.34	84.31	7.8	33.46	8.2	24.7	0.84
I28	04 Feb 2022	12	15.33	84.31	7.8	33.46	8.2	24.7	0.85
I28	04 Feb 2022	13	15.32	84.32	7.8	33.46	8.2	24.7	0.87
I28	04 Feb 2022	14	15.26	84.29	7.8	33.46	8.2	24.7	0.93
I28	04 Feb 2022	15	15.08	84.04	7.7	33.45	8.2	24.8	1.15
I28	04 Feb 2022	16	14.69	82.99	7.5	33.43	8.2	24.8	1.74
I28	04 Feb 2022	17	14.25	82.58	7.0	33.41	8.1	24.9	1.99
I28	04 Feb 2022	18	14.03	83.01	6.8	33.40	8.1	24.9	1.86
I28	04 Feb 2022	19	13.90	83.53	6.8	33.39	8.1	25.0	1.78
I28	04 Feb 2022	20	13.85	83.71	6.8	33.39	8.1	25.0	1.68
I28	04 Feb 2022	21	13.81	83.88	6.8	33.39	8.1	25.0	1.68
I28	04 Feb 2022	22	13.79	83.96	6.8	33.39	8.1	25.0	1.72
I28	04 Feb 2022	23	13.71	83.96	6.7	33.39	8.1	25.0	1.73
I28	04 Feb 2022	24	13.50	84.07	6.6	33.39	8.1	25.0	1.62
I28	04 Feb 2022	25	13.35	84.29	6.5	33.38	8.0	25.1	1.54
I28	04 Feb 2022	26	13.32	84.43	6.4	33.38	8.0	25.1	1.51
I28	04 Feb 2022	27	13.15	84.52	6.4	33.38	8.0	25.1	1.62
I28	04 Feb 2022	28	12.95	84.54	6.3	33.38	8.0	25.1	1.39
I28	04 Feb 2022	29	12.87	84.68	6.2	33.39	8.0	25.2	1.36
I28	04 Feb 2022	30	12.82	84.77	6.2	33.40	8.0	25.2	1.34
I28	04 Feb 2022	31	12.82	84.78	6.2	33.40	8.0	25.2	1.30
I28	04 Feb 2022	32	12.78	84.80	6.2	33.41	8.0	25.2	1.29
I28	04 Feb 2022	33	12.70	84.80	6.1	33.42	8.0	25.2	1.26
I28	04 Feb 2022	34	12.62	84.87	6.0	33.42	8.0	25.2	1.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I28	04 Feb 2022	35	12.60	84.89	6.0	33.43	8.0	25.3	1.18
I28	04 Feb 2022	36	12.58	84.89	6.0	33.43	8.0	25.3	1.18
I28	04 Feb 2022	37	12.54	84.86	5.9	33.43	8.0	25.3	1.15
I28	04 Feb 2022	38	12.43	84.69	5.8	33.44	8.0	25.3	1.12
I28	04 Feb 2022	39	12.27	84.67	5.6	33.45	8.0	25.3	1.06
I28	04 Feb 2022	40	12.24	84.55	5.6	33.45	8.0	25.3	1.01
I28	04 Feb 2022	41	12.20	84.62	5.6	33.46	8.0	25.4	1.00
I28	04 Feb 2022	42	12.16	84.62	5.6	33.46	8.0	25.4	0.96
I28	04 Feb 2022	43	12.14	84.63	5.5	33.46	8.0	25.4	0.96
I28	04 Feb 2022	44	12.12	84.61	5.5	33.47	7.9	25.4	0.93
I28	04 Feb 2022	45	12.08	84.61	5.5	33.47	7.9	25.4	0.92
I28	04 Feb 2022	46	12.06	84.62	5.5	33.48	7.9	25.4	0.92
I28	04 Feb 2022	47	12.02	84.57	5.4	33.48	7.9	25.4	0.91
I28	04 Feb 2022	48	11.84	84.47	5.2	33.51	7.9	25.5	0.88
I28	04 Feb 2022	49	11.86	83.90	5.1	33.50	7.9	25.5	0.83
I28	04 Feb 2022	50	11.66	83.58	4.9	33.55	7.9	25.5	0.81
I28	04 Feb 2022	51	11.60	83.33	4.8	33.56	7.9	25.5	0.77
I28	04 Feb 2022	52	11.53	83.19	4.7	33.58	7.9	25.6	0.74
I28	04 Feb 2022	53	11.47	82.69	4.7	33.59	7.9	25.6	0.71
I28	04 Feb 2022	54	11.48	82.63	4.7	33.58	7.9	25.6	0.70
I28	04 Feb 2022	55	11.45	82.56	4.7	33.59	7.9	25.6	0.69
I29	04 Feb 2022	1	15.31	84.43	7.8	33.46	8.2	24.7	0.71
I29	04 Feb 2022	2	15.29	84.42	7.8	33.46	8.2	24.7	0.72
I29	04 Feb 2022	3	15.31	84.44	7.8	33.46	8.2	24.7	0.72
I29	04 Feb 2022	4	15.32	84.43	7.8	33.46	8.2	24.7	0.71
I29	04 Feb 2022	5	15.31	84.53	7.8	33.46	8.2	24.7	0.70
I29	04 Feb 2022	6	15.29	84.45	7.7	33.46	8.2	24.7	0.72
I29	04 Feb 2022	7	15.21	84.52	7.7	33.46	8.2	24.7	0.75
I29	04 Feb 2022	8	15.16	84.36	7.7	33.45	8.2	24.7	0.82
I29	04 Feb 2022	9	15.14	84.25	7.7	33.45	8.2	24.7	0.87
I29	04 Feb 2022	10	15.14	84.25	7.7	33.45	8.2	24.7	0.90
I29	04 Feb 2022	11	15.07	84.16	7.6	33.45	8.2	24.8	0.93
I29	04 Feb 2022	12	15.01	84.19	7.6	33.45	8.2	24.8	0.98
I29	04 Feb 2022	13	14.97	84.18	7.6	33.44	8.2	24.8	1.04
I29	04 Feb 2022	14	14.95	84.09	7.6	33.44	8.2	24.8	1.11
I29	04 Feb 2022	15	14.93	84.10	7.6	33.44	8.2	24.8	1.15
I29	04 Feb 2022	16	14.85	84.07	7.5	33.44	8.2	24.8	1.17
I29	04 Feb 2022	17	14.79	84.13	7.5	33.43	8.2	24.8	1.20
I29	04 Feb 2022	18	14.77	84.11	7.5	33.43	8.2	24.8	1.23
I29	04 Feb 2022	19	14.75	84.14	7.5	33.43	8.2	24.8	1.26
I29	04 Feb 2022	20	14.75	84.15	7.5	33.43	8.2	24.8	1.28
I29	04 Feb 2022	21	14.74	84.16	7.5	33.43	8.2	24.8	1.30
I29	04 Feb 2022	22	14.72	84.01	7.4	33.43	8.2	24.8	1.31
I29	04 Feb 2022	23	14.67	84.11	7.4	33.43	8.1	24.8	1.34
I29	04 Feb 2022	24	14.67	84.15	7.5	33.43	8.1	24.8	1.34
I29	04 Feb 2022	25	14.66	84.14	7.4	33.43	8.1	24.8	1.35
I29	04 Feb 2022	26	14.59	84.05	7.3	33.42	8.1	24.8	1.36
I29	04 Feb 2022	27	14.49	84.01	7.3	33.42	8.1	24.9	1.37
I29	04 Feb 2022	28	14.46	84.03	7.2	33.41	8.1	24.9	1.43
I29	04 Feb 2022	29	14.33	83.86	7.1	33.41	8.1	24.9	1.44
I29	04 Feb 2022	30	14.13	83.78	7.0	33.40	8.1	24.9	1.48
I29	04 Feb 2022	31	14.03	83.63	7.0	33.39	8.1	24.9	1.52
I29	04 Feb 2022	32	13.93	83.54	6.9	33.39	8.1	25.0	1.52
I29	04 Feb 2022	33	13.64	83.62	6.6	33.40	8.1	25.0	1.47
I29	04 Feb 2022	34	13.18	83.71	6.3	33.40	8.1	25.1	1.36
I29	04 Feb 2022	35	13.08	83.62	6.2	33.40	8.0	25.1	1.30
I29	04 Feb 2022	36	13.03	83.66	6.2	33.40	8.0	25.1	1.28
I29	04 Feb 2022	37	13.02	83.61	6.2	33.40	8.0	25.2	1.27
I29	04 Feb 2022	38	13.05	83.55	6.2	33.41	8.0	25.1	1.24

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I3	01 Feb 2022	1	14.65	76.49	8.2	33.45	8.2	24.9	2.92
I3	01 Feb 2022	2	14.65	76.22	8.2	33.45	8.2	24.9	2.88
I3	01 Feb 2022	3	14.65	77.23	8.2	33.45	8.2	24.9	3.08
I3	01 Feb 2022	4	14.65	77.24	8.1	33.45	8.2	24.9	3.50
I3	01 Feb 2022	5	14.64	77.17	8.1	33.45	8.2	24.9	3.82
I3	01 Feb 2022	6	14.65	77.10	8.2	33.45	8.2	24.9	4.17
I3	01 Feb 2022	7	14.65	77.08	8.1	33.45	8.2	24.9	4.54
I3	01 Feb 2022	8	14.64	77.16	8.0	33.45	8.2	24.9	4.77
I3	01 Feb 2022	9	14.64	77.09	8.1	33.45	8.2	24.9	4.83
I3	01 Feb 2022	10	14.64	77.00	8.2	33.45	8.2	24.9	5.05
I3	01 Feb 2022	11	14.64	77.17	8.1	33.45	8.2	24.9	5.31
I3	01 Feb 2022	12	14.63	77.24	8.0	33.45	8.2	24.9	5.17
I3	01 Feb 2022	13	14.63	77.40	8.0	33.45	8.2	24.9	5.06
I3	01 Feb 2022	14	14.63	77.77	8.0	33.45	8.2	24.9	4.94
I3	01 Feb 2022	15	14.63	77.78	7.9	33.45	8.2	24.9	4.63
I3	01 Feb 2022	16	14.63	77.77	7.9	33.45	8.2	24.9	4.75
I3	01 Feb 2022	17	14.63	78.00	8.0	33.45	8.2	24.9	4.66
I3	01 Feb 2022	18	14.63	78.28	8.0	33.45	8.2	24.9	4.51
I3	01 Feb 2022	19	14.61	78.41	7.9	33.45	8.2	24.9	4.27
I3	01 Feb 2022	20	14.58	79.27	7.8	33.45	8.2	24.9	3.73
I3	01 Feb 2022	21	14.55	79.40	7.7	33.45	8.2	24.9	2.96
I3	01 Feb 2022	22	14.42	79.13	7.4	33.46	8.2	24.9	2.35
I3	01 Feb 2022	23	14.35	78.73	7.4	33.46	8.1	24.9	1.95
I3	01 Feb 2022	24	14.34	78.43	7.4	33.46	8.1	24.9	1.55
I3	01 Feb 2022	25	14.34	78.16	7.5	33.46	8.1	24.9	1.43
I3	01 Feb 2022	26	14.34	77.87	7.4	33.46	8.1	24.9	1.41
I3	01 Feb 2022	27	14.34	78.02	7.5	33.46	8.1	24.9	1.39
I30	04 Feb 2022	1	14.91	75.31	7.6	33.44	8.2	24.8	0.78
I30	04 Feb 2022	2	14.92	83.13	7.6	33.44	8.2	24.8	0.79
I30	04 Feb 2022	3	14.90	83.47	7.6	33.44	8.2	24.8	0.78
I30	04 Feb 2022	4	14.88	83.57	7.6	33.44	8.2	24.8	0.80
I30	04 Feb 2022	5	14.88	83.59	7.6	33.44	8.2	24.8	0.83
I30	04 Feb 2022	6	14.87	83.64	7.6	33.44	8.2	24.8	0.86
I30	04 Feb 2022	7	14.87	83.67	7.6	33.44	8.2	24.8	0.88
I30	04 Feb 2022	8	14.86	83.70	7.6	33.44	8.2	24.8	0.91
I30	04 Feb 2022	9	14.86	83.64	7.6	33.44	8.2	24.8	0.94
I30	04 Feb 2022	10	14.86	83.67	7.6	33.44	8.2	24.8	0.97
I30	04 Feb 2022	11	14.85	83.65	7.6	33.44	8.2	24.8	1.00
I30	04 Feb 2022	12	14.85	83.67	7.6	33.44	8.2	24.8	1.06
I30	04 Feb 2022	13	14.84	83.70	7.6	33.44	8.2	24.8	1.09
I30	04 Feb 2022	14	14.84	83.69	7.6	33.44	8.2	24.8	1.13
I30	04 Feb 2022	15	14.83	83.67	7.6	33.44	8.2	24.8	1.15
I30	04 Feb 2022	16	14.80	83.59	7.6	33.44	8.2	24.8	1.19
I30	04 Feb 2022	17	14.80	83.58	7.6	33.44	8.2	24.8	1.21
I30	04 Feb 2022	18	14.78	83.56	7.5	33.44	8.2	24.8	1.28
I30	04 Feb 2022	19	14.77	83.49	7.5	33.44	8.2	24.8	1.28
I30	04 Feb 2022	20	14.73	83.45	7.5	33.43	8.2	24.8	1.33
I30	04 Feb 2022	21	14.70	83.21	7.6	33.43	8.2	24.8	1.41
I30	04 Feb 2022	22	14.68	83.10	7.5	33.43	8.2	24.8	1.46
I30	04 Feb 2022	23	14.64	82.99	7.5	33.43	8.2	24.8	1.48
I30	04 Feb 2022	24	14.62	82.84	7.5	33.43	8.2	24.8	1.47
I30	04 Feb 2022	25	14.57	82.94	7.3	33.42	8.1	24.9	1.46
I30	04 Feb 2022	26	14.31	83.10	7.1	33.41	8.1	24.9	1.45
I30	04 Feb 2022	27	13.93	83.03	6.8	33.40	8.1	25.0	1.46
I30	04 Feb 2022	28	13.44	83.20	6.5	33.39	8.1	25.1	1.41
I31	04 Feb 2022	1	14.80	81.35	7.7	33.44	8.2	24.8	1.04
I31	04 Feb 2022	2	14.79	81.31	7.7	33.44	8.2	24.8	1.05
I31	04 Feb 2022	3	14.78	81.10	7.8	33.44	8.2	24.8	1.10
I31	04 Feb 2022	4	14.77	81.07	7.7	33.44	8.2	24.8	1.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I31	04 Feb 2022	5	14.76	81.09	7.7	33.44	8.2	24.8	1.25
I31	04 Feb 2022	6	14.74	80.87	7.7	33.44	8.2	24.8	1.35
I31	04 Feb 2022	7	14.69	80.78	7.6	33.44	8.2	24.8	1.47
I31	04 Feb 2022	8	14.61	80.52	7.5	33.43	8.2	24.8	1.56
I31	04 Feb 2022	9	14.53	80.62	7.4	33.42	8.1	24.9	1.59
I31	04 Feb 2022	10	14.42	80.79	7.3	33.42	8.1	24.9	1.59
I31	04 Feb 2022	11	14.34	81.15	7.2	33.41	8.1	24.9	1.64
I31	04 Feb 2022	12	14.18	81.51	7.0	33.40	8.1	24.9	1.60
I31	04 Feb 2022	13	14.08	81.89	7.0	33.40	8.1	24.9	1.59
I31	04 Feb 2022	14	13.95	82.29	6.9	33.39	8.1	25.0	1.58
I31	04 Feb 2022	15	13.89	83.08	6.9	33.39	8.1	25.0	1.51
I31	04 Feb 2022	16	13.76	83.25	6.8	33.39	8.1	25.0	1.42
I31	04 Feb 2022	17	13.61	83.21	6.6	33.39	8.1	25.0	1.38
I31	04 Feb 2022	18	13.53	82.95	6.6	33.39	8.1	25.0	1.37
I31	04 Feb 2022	19	13.51	82.64	6.6	33.39	8.1	25.0	1.40
I33	04 Feb 2022	1	15.12	83.91	7.7	33.45	8.2	24.8	0.88
I33	04 Feb 2022	2	15.11	83.91	7.7	33.45	8.2	24.8	0.90
I33	04 Feb 2022	3	15.08	83.92	7.7	33.45	8.2	24.8	0.93
I33	04 Feb 2022	4	15.06	83.92	7.7	33.45	8.2	24.8	0.96
I33	04 Feb 2022	5	15.03	83.92	7.7	33.45	8.2	24.8	0.98
I33	04 Feb 2022	6	14.95	83.84	7.5	33.44	8.2	24.8	1.02
I33	04 Feb 2022	7	14.77	83.71	7.5	33.43	8.1	24.8	1.10
I33	04 Feb 2022	8	14.60	83.67	7.3	33.42	8.1	24.8	1.18
I33	04 Feb 2022	9	14.39	83.56	7.2	33.41	8.1	24.9	1.25
I33	04 Feb 2022	10	14.30	83.46	7.2	33.40	8.1	24.9	1.33
I33	04 Feb 2022	11	14.18	83.53	7.1	33.40	8.1	24.9	1.35
I33	04 Feb 2022	12	14.06	83.62	7.1	33.39	8.1	24.9	1.33
I33	04 Feb 2022	13	14.03	83.75	7.0	33.39	8.1	24.9	1.41
I33	04 Feb 2022	14	13.98	83.71	6.9	33.39	8.1	24.9	1.40
I33	04 Feb 2022	15	13.95	83.69	7.0	33.39	8.1	25.0	1.41
I33	04 Feb 2022	16	13.94	83.80	6.9	33.39	8.1	25.0	1.43
I33	04 Feb 2022	17	13.90	83.81	6.9	33.39	8.1	25.0	1.44
I33	04 Feb 2022	18	13.89	83.87	6.9	33.39	8.1	25.0	1.45
I33	04 Feb 2022	19	13.83	83.91	6.8	33.39	8.1	25.0	1.47
I33	04 Feb 2022	20	13.82	83.83	6.8	33.39	8.1	25.0	1.44
I33	04 Feb 2022	21	13.79	83.78	6.8	33.39	8.1	25.0	1.43
I33	04 Feb 2022	22	13.77	83.73	6.8	33.39	8.1	25.0	1.39
I33	04 Feb 2022	23	13.75	83.66	6.8	33.39	8.1	25.0	1.38
I33	04 Feb 2022	24	13.69	83.58	6.7	33.39	8.1	25.0	1.36
I33	04 Feb 2022	25	13.68	83.59	6.7	33.39	8.1	25.0	1.37
I33	04 Feb 2022	26	13.65	83.56	6.7	33.39	8.1	25.0	1.36
I33	04 Feb 2022	27	13.58	83.54	6.6	33.39	8.1	25.0	1.31
I33	04 Feb 2022	28	13.41	83.40	6.5	33.39	8.0	25.1	1.29
I33	04 Feb 2022	29	13.26	83.27	6.3	33.39	8.0	25.1	1.28
I33	04 Feb 2022	30	13.07	83.13	6.2	33.39	8.0	25.1	1.26
I34	04 Feb 2022	1	14.86	83.91	7.6	33.44	8.1	24.8	0.94
I34	04 Feb 2022	2	14.87	83.92	7.6	33.44	8.1	24.8	0.95
I34	04 Feb 2022	3	14.87	83.91	7.6	33.44	8.2	24.8	0.98
I34	04 Feb 2022	4	14.87	83.90	7.6	33.44	8.2	24.8	1.00
I34	04 Feb 2022	5	14.87	83.90	7.6	33.44	8.2	24.8	1.00
I34	04 Feb 2022	6	14.87	83.93	7.6	33.44	8.2	24.8	1.00
I34	04 Feb 2022	7	14.87	83.94	7.6	33.44	8.2	24.8	1.02
I34	04 Feb 2022	8	14.87	83.92	7.6	33.44	8.2	24.8	1.05
I34	04 Feb 2022	9	14.86	83.87	7.6	33.44	8.2	24.8	1.07
I34	04 Feb 2022	10	14.86	83.87	7.6	33.44	8.2	24.8	1.07
I34	04 Feb 2022	11	14.86	83.86	7.6	33.44	8.2	24.8	1.08
I34	04 Feb 2022	12	14.86	83.90	7.6	33.44	8.2	24.8	1.11
I34	04 Feb 2022	13	14.85	83.93	7.6	33.44	8.2	24.8	1.10
I34	04 Feb 2022	14	14.84	83.90	7.6	33.44	8.1	24.8	1.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I34	04 Feb 2022	15	14.83	83.87	7.6	33.44	8.1	24.8	1.13
I34	04 Feb 2022	16	14.81	83.83	7.6	33.44	8.1	24.8	1.14
I34	04 Feb 2022	17	14.77	83.85	7.5	33.43	8.1	24.8	1.20
I34	04 Feb 2022	18	14.66	83.85	7.4	33.43	8.1	24.8	1.20
I34	04 Feb 2022	19	14.52	83.83	7.3	33.42	8.1	24.9	1.21
I35	04 Feb 2022	1	14.80	77.21	7.9	33.46	8.2	24.8	1.41
I35	04 Feb 2022	2	14.78	77.38	7.9	33.46	8.2	24.8	1.39
I35	04 Feb 2022	3	14.77	77.42	7.9	33.46	8.2	24.8	1.43
I35	04 Feb 2022	4	14.72	76.96	7.9	33.46	8.2	24.8	1.54
I35	04 Feb 2022	5	14.71	76.66	7.9	33.46	8.2	24.8	1.82
I35	04 Feb 2022	6	14.71	76.77	7.9	33.46	8.2	24.8	1.97
I35	04 Feb 2022	7	14.70	76.69	7.9	33.46	8.2	24.8	2.17
I35	04 Feb 2022	8	14.69	76.56	7.9	33.46	8.2	24.8	2.38
I35	04 Feb 2022	9	14.69	76.36	7.9	33.46	8.2	24.9	2.44
I35	04 Feb 2022	10	14.68	76.27	7.9	33.46	8.2	24.9	2.62
I35	04 Feb 2022	11	14.67	75.90	7.9	33.46	8.2	24.9	2.79
I35	04 Feb 2022	12	14.66	75.82	7.8	33.46	8.2	24.9	2.84
I35	04 Feb 2022	13	14.65	75.68	7.8	33.46	8.2	24.9	2.84
I35	04 Feb 2022	14	14.64	75.76	7.8	33.45	8.2	24.9	2.82
I35	04 Feb 2022	15	14.63	75.53	7.7	33.45	8.2	24.9	2.84
I35	04 Feb 2022	16	14.62	75.14	7.6	33.45	8.2	24.9	2.68
I35	04 Feb 2022	17	14.62	75.02	7.7	33.45	8.2	24.9	2.57
I35	04 Feb 2022	18	14.61	75.08	7.6	33.45	8.2	24.9	2.51
I35	04 Feb 2022	19	14.58	74.97	7.5	33.45	8.2	24.9	2.40
I36	04 Feb 2022	1	14.71	65.40	8.7	33.45	8.2	24.8	3.87
I36	04 Feb 2022	2	14.68	64.54	8.7	33.45	8.2	24.8	3.28
I36	04 Feb 2022	3	14.63	61.07	8.7	33.45	8.2	24.9	4.47
I36	04 Feb 2022	4	14.61	60.82	8.6	33.45	8.2	24.9	5.85
I36	04 Feb 2022	5	14.60	62.00	8.6	33.45	8.2	24.9	6.65
I36	04 Feb 2022	6	14.60	62.27	8.6	33.45	8.2	24.9	6.99
I36	04 Feb 2022	7	14.60	62.20	8.6	33.45	8.2	24.9	6.64
I36	04 Feb 2022	8	14.59	62.33	8.5	33.45	8.2	24.9	6.14
I36	04 Feb 2022	9	14.59	62.42	8.5	33.45	8.2	24.9	5.88
I36	04 Feb 2022	10	14.57	61.28	8.4	33.45	8.2	24.9	5.88
I36	04 Feb 2022	11	14.49	60.43	8.1	33.46	8.2	24.9	4.98
I37	04 Feb 2022	1	14.73	79.67	7.5	33.44	8.1	24.8	1.40
I37	04 Feb 2022	2	14.72	79.77	7.5	33.44	8.1	24.8	1.41
I37	04 Feb 2022	3	14.73	79.61	7.5	33.44	8.1	24.8	1.44
I37	04 Feb 2022	4	14.73	79.74	7.5	33.44	8.1	24.8	1.57
I37	04 Feb 2022	5	14.72	79.88	7.5	33.44	8.1	24.8	1.65
I37	04 Feb 2022	6	14.73	79.91	7.5	33.44	8.1	24.8	1.67
I37	04 Feb 2022	7	14.72	79.90	7.5	33.44	8.1	24.8	1.72
I37	04 Feb 2022	8	14.72	79.83	7.5	33.44	8.1	24.8	1.72
I37	04 Feb 2022	9	14.72	79.92	7.5	33.44	8.1	24.8	1.78
I37	04 Feb 2022	10	14.72	79.75	7.5	33.44	8.1	24.8	1.77
I37	04 Feb 2022	11	14.72	79.83	7.5	33.44	8.1	24.8	1.72
I37	04 Feb 2022	12	14.67	79.84	7.4	33.44	8.1	24.8	1.73
I38	04 Feb 2022	1	14.68	72.36	8.4	33.48	8.2	24.9	1.66
I38	04 Feb 2022	2	14.67	71.88	8.3	33.48	8.2	24.9	1.70
I38	04 Feb 2022	3	14.64	70.91	8.3	33.48	8.2	24.9	2.04
I38	04 Feb 2022	4	14.62	70.31	8.3	33.48	8.2	24.9	2.49
I38	04 Feb 2022	5	14.62	70.46	8.4	33.48	8.2	24.9	3.21
I38	04 Feb 2022	6	14.61	70.46	8.3	33.48	8.2	24.9	3.91
I38	04 Feb 2022	7	14.60	70.41	8.3	33.48	8.2	24.9	4.19
I38	04 Feb 2022	8	14.60	70.23	8.3	33.48	8.2	24.9	4.53
I38	04 Feb 2022	9	14.60	70.51	8.3	33.48	8.2	24.9	4.50
I38	04 Feb 2022	10	14.59	70.39	8.3	33.48	8.2	24.9	4.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I38	04 Feb 2022	11	14.59	70.45	8.3	33.48	8.2	24.9	4.17
I4	01 Feb 2022	1	14.71	65.26	9.1	33.43	8.2	24.8	10.98
I4	01 Feb 2022	2	14.71	65.14	9.0	33.43	8.2	24.8	11.17
I4	01 Feb 2022	3	14.71	65.22	9.0	33.43	8.2	24.8	12.09
I4	01 Feb 2022	4	14.70	65.18	9.0	33.43	8.2	24.8	12.37
I4	01 Feb 2022	5	14.70	65.71	9.0	33.43	8.2	24.8	12.39
I4	01 Feb 2022	6	14.70	66.24	8.9	33.43	8.2	24.8	11.92
I4	01 Feb 2022	7	14.69	67.29	8.8	33.43	8.2	24.8	11.42
I4	01 Feb 2022	8	14.67	71.18	8.7	33.43	8.2	24.8	9.53
I4	01 Feb 2022	9	14.67	74.00	8.7	33.43	8.2	24.8	7.11
I4	01 Feb 2022	10	14.66	74.88	8.7	33.43	8.2	24.8	5.68
I4	01 Feb 2022	11	14.66	75.48	8.6	33.43	8.2	24.8	4.33
I4	01 Feb 2022	12	14.65	76.58	8.5	33.44	8.2	24.8	3.33
I4	01 Feb 2022	13	14.65	76.78	8.2	33.44	8.2	24.8	2.94
I4	01 Feb 2022	14	14.62	76.70	7.8	33.45	8.2	24.9	2.59
I4	01 Feb 2022	15	14.61	76.04	7.6	33.45	8.2	24.9	2.45
I4	01 Feb 2022	16	14.60	74.41	7.6	33.45	8.2	24.9	2.29
I4	01 Feb 2022	17	14.60	73.58	7.5	33.45	8.1	24.9	2.19
I4	01 Feb 2022	18	14.59	73.17	7.5	33.45	8.1	24.9	2.17
I5	01 Feb 2022	1	14.86	73.38	8.0	33.37	8.2	24.7	1.36
I5	01 Feb 2022	2	14.86	73.14	8.0	33.37	8.2	24.7	1.39
I5	01 Feb 2022	3	14.84	73.29	8.0	33.38	8.2	24.8	1.49
I5	01 Feb 2022	4	14.84	73.74	8.0	33.39	8.2	24.8	1.65
I5	01 Feb 2022	5	14.84	74.41	8.0	33.39	8.2	24.8	1.82
I5	01 Feb 2022	6	14.82	76.21	7.9	33.43	8.2	24.8	2.04
I5	01 Feb 2022	7	14.82	77.50	8.0	33.44	8.2	24.8	2.31
I5	01 Feb 2022	8	14.82	77.60	8.0	33.44	8.2	24.8	2.46
I5	01 Feb 2022	9	14.81	76.80	7.9	33.44	8.2	24.8	2.51
I5	01 Feb 2022	10	14.81	76.73	7.9	33.44	8.2	24.8	2.56
I5	01 Feb 2022	11	14.81	76.91	7.9	33.44	8.2	24.8	2.59
I5	01 Feb 2022	12	14.80	75.60	7.8	33.44	8.2	24.8	2.54
I5	01 Feb 2022	13	14.80	74.26	7.8	33.44	8.2	24.8	2.47
I5	01 Feb 2022	14	14.80	70.98	7.8	33.44	8.2	24.8	2.48
I6	01 Feb 2022	1	14.83	73.35	8.8	33.44	8.2	24.8	3.11
I6	01 Feb 2022	2	14.83	72.96	8.8	33.44	8.2	24.8	3.09
I6	01 Feb 2022	3	14.82	73.30	8.8	33.44	8.2	24.8	3.42
I6	01 Feb 2022	4	14.81	73.17	8.7	33.44	8.2	24.8	3.85
I6	01 Feb 2022	5	14.73	72.26	8.6	33.44	8.2	24.8	5.40
I6	01 Feb 2022	6	14.71	72.26	8.5	33.44	8.2	24.8	6.78
I6	01 Feb 2022	7	14.68	72.47	8.3	33.44	8.2	24.8	7.55
I6	01 Feb 2022	8	14.67	72.27	8.2	33.44	8.2	24.8	8.06
I6	01 Feb 2022	9	14.66	72.72	8.3	33.43	8.2	24.8	7.81
I6	01 Feb 2022	10	14.65	73.40	8.2	33.43	8.2	24.8	7.15
I6	01 Feb 2022	11	14.64	74.41	8.1	33.43	8.2	24.8	6.28
I6	01 Feb 2022	12	14.63	75.47	8.1	33.43	8.2	24.8	5.21
I6	01 Feb 2022	13	14.62	76.20	8.1	33.44	8.2	24.8	4.38
I6	01 Feb 2022	14	14.60	76.94	8.0	33.44	8.2	24.9	3.89
I6	01 Feb 2022	15	14.59	77.43	7.9	33.44	8.2	24.9	3.42
I6	01 Feb 2022	16	14.58	77.72	7.8	33.44	8.2	24.9	2.98
I6	01 Feb 2022	17	14.58	78.02	7.8	33.44	8.2	24.9	2.72
I6	01 Feb 2022	18	14.58	78.18	7.8	33.44	8.2	24.9	2.44
I6	01 Feb 2022	19	14.58	78.38	7.6	33.45	8.2	24.9	2.26
I6	01 Feb 2022	20	14.57	78.80	7.5	33.45	8.2	24.9	2.02
I6	01 Feb 2022	21	14.56	78.92	7.4	33.45	8.2	24.9	1.68
I6	01 Feb 2022	22	14.54	78.82	7.3	33.45	8.1	24.9	1.54
I6	01 Feb 2022	23	14.54	78.65	7.3	33.45	8.1	24.9	1.34
I6	01 Feb 2022	24	14.53	78.39	7.2	33.45	8.1	24.9	1.34
I6	01 Feb 2022	25	14.53	78.11	7.2	33.45	8.1	24.9	1.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I6	01 Feb 2022	26	14.53	78.29	7.3	33.45	8.1	24.9	1.31
I7	01 Feb 2022	1	15.55	83.97	7.8	33.44	8.2	24.7	0.77
I7	01 Feb 2022	2	15.55	80.55	7.7	33.44	8.2	24.7	0.78
I7	01 Feb 2022	3	15.55	83.40	7.8	33.44	8.2	24.7	0.79
I7	01 Feb 2022	4	15.54	84.28	7.8	33.44	8.2	24.7	0.80
I7	01 Feb 2022	5	15.55	84.32	7.8	33.44	8.2	24.7	0.82
I7	01 Feb 2022	6	15.55	84.34	7.8	33.44	8.2	24.6	0.86
I7	01 Feb 2022	7	15.55	84.37	7.8	33.44	8.2	24.6	0.84
I7	01 Feb 2022	8	15.55	84.32	7.8	33.44	8.2	24.6	0.86
I7	01 Feb 2022	9	15.55	84.36	7.8	33.44	8.2	24.6	0.89
I7	01 Feb 2022	10	15.55	84.34	7.8	33.44	8.2	24.6	0.88
I7	01 Feb 2022	11	15.55	84.37	7.8	33.44	8.2	24.6	0.89
I7	01 Feb 2022	12	15.54	84.33	7.7	33.44	8.2	24.7	0.93
I7	01 Feb 2022	13	15.54	84.32	7.8	33.44	8.2	24.7	0.93
I7	01 Feb 2022	14	15.54	84.34	7.7	33.44	8.2	24.7	0.94
I7	01 Feb 2022	15	15.54	84.32	7.7	33.44	8.2	24.7	0.95
I7	01 Feb 2022	16	15.52	84.21	7.7	33.44	8.2	24.7	0.99
I7	01 Feb 2022	17	15.49	84.12	7.7	33.44	8.2	24.7	1.07
I7	01 Feb 2022	18	15.47	84.08	7.7	33.43	8.2	24.7	1.13
I7	01 Feb 2022	19	15.46	84.07	7.7	33.43	8.2	24.7	1.18
I7	01 Feb 2022	20	15.45	84.05	7.7	33.43	8.2	24.7	1.23
I7	01 Feb 2022	21	15.44	84.01	7.7	33.43	8.2	24.7	1.23
I7	01 Feb 2022	22	15.41	83.95	7.7	33.43	8.2	24.7	1.25
I7	01 Feb 2022	23	15.35	83.90	7.7	33.42	8.2	24.7	1.30
I7	01 Feb 2022	24	15.05	83.56	7.6	33.40	8.1	24.7	1.44
I7	01 Feb 2022	25	14.95	83.32	7.7	33.39	8.1	24.7	1.70
I7	01 Feb 2022	26	14.91	83.26	7.6	33.38	8.1	24.7	1.80
I7	01 Feb 2022	27	14.83	83.35	7.3	33.38	8.1	24.8	1.87
I7	01 Feb 2022	28	14.28	83.47	7.1	33.40	8.1	24.9	1.78
I7	01 Feb 2022	29	14.24	83.53	7.2	33.39	8.1	24.9	1.67
I7	01 Feb 2022	30	14.23	83.50	7.1	33.40	8.1	24.9	1.52
I7	01 Feb 2022	31	14.24	83.44	7.1	33.41	8.1	24.9	1.44
I7	01 Feb 2022	32	14.25	83.48	7.2	33.41	8.1	24.9	1.42
I7	01 Feb 2022	33	14.26	83.39	7.2	33.42	8.1	24.9	1.35
I7	01 Feb 2022	34	14.26	83.38	7.2	33.43	8.1	24.9	1.26
I7	01 Feb 2022	35	14.26	83.40	7.2	33.43	8.1	24.9	1.24
I7	01 Feb 2022	36	14.24	83.35	7.1	33.43	8.1	24.9	1.23
I7	01 Feb 2022	37	14.22	83.43	7.1	33.43	8.1	24.9	1.21
I7	01 Feb 2022	38	14.20	83.47	7.1	33.44	8.1	24.9	1.22
I7	01 Feb 2022	39	14.20	83.45	7.1	33.44	8.1	24.9	1.22
I7	01 Feb 2022	40	14.19	83.31	7.0	33.45	8.1	24.9	1.19
I7	01 Feb 2022	41	14.15	83.22	7.0	33.45	8.1	25.0	1.18
I7	01 Feb 2022	42	14.11	83.26	6.8	33.45	8.1	25.0	1.17
I7	01 Feb 2022	43	13.77	83.21	6.3	33.45	8.1	25.0	1.16
I7	01 Feb 2022	44	13.56	83.22	6.2	33.45	8.0	25.1	1.16
I7	01 Feb 2022	45	13.49	83.27	6.1	33.45	8.0	25.1	1.17
I7	01 Feb 2022	46	13.34	83.23	6.0	33.46	8.0	25.1	1.18
I7	01 Feb 2022	47	13.34	83.28	6.0	33.46	8.0	25.1	1.16
I7	01 Feb 2022	48	13.26	83.27	5.9	33.46	8.0	25.1	1.17
I7	01 Feb 2022	49	13.13	83.36	5.8	33.47	8.0	25.2	1.10
I7	01 Feb 2022	50	13.10	83.38	5.8	33.47	8.0	25.2	1.08
I7	01 Feb 2022	51	12.93	83.37	5.7	33.47	8.0	25.2	1.08
I7	01 Feb 2022	52	12.84	83.40	5.7	33.47	8.0	25.2	1.06
I8	01 Feb 2022	1	15.41	82.83	7.8	33.44	8.2	24.7	0.93
I8	01 Feb 2022	2	15.37	82.63	7.8	33.44	8.2	24.7	1.03
I8	01 Feb 2022	3	15.34	82.69	7.8	33.44	8.2	24.7	1.11
I8	01 Feb 2022	4	15.24	82.53	7.8	33.44	8.2	24.7	1.28
I8	01 Feb 2022	5	15.22	82.04	7.8	33.43	8.2	24.7	1.41
I8	01 Feb 2022	6	15.21	81.91	7.8	33.43	8.2	24.7	1.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I8	01 Feb 2022	7	15.18	81.80	7.8	33.43	8.2	24.7	1.64
I8	01 Feb 2022	8	15.17	81.69	7.8	33.43	8.2	24.7	1.74
I8	01 Feb 2022	9	15.15	81.67	7.7	33.43	8.2	24.7	1.73
I8	01 Feb 2022	10	15.14	81.70	7.7	33.43	8.2	24.7	1.83
I8	01 Feb 2022	11	15.13	81.65	7.7	33.43	8.2	24.7	1.82
I8	01 Feb 2022	12	15.11	81.67	7.8	33.43	8.2	24.7	1.87
I8	01 Feb 2022	13	15.11	81.65	7.8	33.43	8.2	24.7	1.96
I8	01 Feb 2022	14	15.10	81.59	7.7	33.43	8.2	24.7	1.95
I8	01 Feb 2022	15	15.09	81.50	7.8	33.43	8.2	24.7	2.03
I8	01 Feb 2022	16	15.09	81.62	7.8	33.43	8.2	24.7	2.10
I8	01 Feb 2022	17	15.08	81.66	7.7	33.43	8.2	24.7	2.07
I8	01 Feb 2022	18	15.07	81.76	7.7	33.43	8.2	24.7	2.06
I8	01 Feb 2022	19	15.07	81.82	7.7	33.43	8.2	24.7	2.04
I8	01 Feb 2022	20	15.05	81.80	7.7	33.43	8.2	24.8	2.06
I8	01 Feb 2022	21	15.03	81.88	7.7	33.43	8.2	24.8	2.03
I8	01 Feb 2022	22	15.01	81.91	7.6	33.43	8.2	24.8	2.01
I8	01 Feb 2022	23	14.90	81.93	7.5	33.43	8.2	24.8	1.96
I8	01 Feb 2022	24	14.75	82.27	7.4	33.42	8.2	24.8	1.90
I8	01 Feb 2022	25	14.60	82.40	7.3	33.41	8.1	24.8	1.95
I8	01 Feb 2022	26	14.49	82.50	7.2	33.41	8.1	24.9	2.00
I8	01 Feb 2022	27	14.37	82.49	7.1	33.41	8.1	24.9	1.91
I8	01 Feb 2022	28	14.26	81.75	7.0	33.42	8.1	24.9	1.84
I8	01 Feb 2022	29	14.25	81.62	7.0	33.42	8.1	24.9	1.74
I8	01 Feb 2022	30	14.25	81.67	7.0	33.42	8.1	24.9	1.73
I8	01 Feb 2022	31	14.25	81.63	7.0	33.42	8.1	24.9	1.66
I8	01 Feb 2022	32	14.25	81.48	7.0	33.42	8.1	24.9	1.67
I8	01 Feb 2022	33	14.23	81.33	7.0	33.42	8.1	24.9	1.66
I8	01 Feb 2022	34	14.23	81.30	7.0	33.42	8.1	24.9	1.67
I8	01 Feb 2022	35	14.23	81.24	7.0	33.43	8.1	24.9	1.65
I8	01 Feb 2022	36	14.22	81.14	7.0	33.43	8.1	24.9	1.62
I9	01 Feb 2022	1	14.84	55.19	7.8	33.37	8.2	24.8	1.36
I9	01 Feb 2022	2	14.84	75.46	7.8	33.42	8.2	24.8	1.39
I9	01 Feb 2022	3	14.83	80.98	7.8	33.42	8.2	24.8	1.43
I9	01 Feb 2022	4	14.82	80.95	7.8	33.42	8.2	24.8	1.56
I9	01 Feb 2022	5	14.82	80.96	7.8	33.42	8.2	24.8	1.65
I9	01 Feb 2022	6	14.82	80.93	7.8	33.42	8.2	24.8	1.70
I9	01 Feb 2022	7	14.82	80.94	7.8	33.42	8.2	24.8	1.78
I9	01 Feb 2022	8	14.81	80.80	7.8	33.42	8.2	24.8	1.90
I9	01 Feb 2022	9	14.80	80.94	7.8	33.42	8.2	24.8	2.04
I9	01 Feb 2022	10	14.77	80.94	7.8	33.42	8.2	24.8	1.95
I9	01 Feb 2022	11	14.77	80.99	7.8	33.42	8.2	24.8	2.02
I9	01 Feb 2022	12	14.70	81.03	7.7	33.43	8.2	24.8	2.08
I9	01 Feb 2022	13	14.63	81.08	7.7	33.43	8.2	24.8	1.88
I9	01 Feb 2022	14	14.58	80.88	7.6	33.44	8.2	24.9	1.86
I9	01 Feb 2022	15	14.50	80.46	7.5	33.44	8.2	24.9	1.76
I9	01 Feb 2022	16	14.48	80.19	7.4	33.44	8.1	24.9	1.68
I9	01 Feb 2022	17	14.48	80.27	7.3	33.44	8.1	24.9	1.73
I9	01 Feb 2022	18	14.45	80.04	7.2	33.44	8.1	24.9	1.60
I9	01 Feb 2022	19	14.44	80.08	7.2	33.44	8.1	24.9	1.55
I9	01 Feb 2022	20	14.41	79.89	7.2	33.44	8.1	24.9	1.49
I9	01 Feb 2022	21	14.39	79.38	7.3	33.45	8.1	24.9	1.41
I9	01 Feb 2022	22	14.40	79.23	7.2	33.45	8.1	24.9	1.37
I9	01 Feb 2022	23	14.38	78.84	7.2	33.45	8.1	24.9	1.34
I9	01 Feb 2022	24	14.38	78.78	7.2	33.45	8.1	24.9	1.33
I9	01 Feb 2022	25	14.38	78.65	7.2	33.45	8.1	24.9	1.32
I9	01 Feb 2022	26	14.38	78.52	7.2	33.45	8.1	24.9	1.31
I9	01 Feb 2022	27	14.38	78.58	7.2	33.45	8.1	24.9	1.30
I9	01 Feb 2022	28	14.38	77.56	7.2	33.45	8.1	24.9	1.31
I9	01 Feb 2022	29	14.37	76.14	7.3	33.45	8.1	24.9	1.32

NA = not available

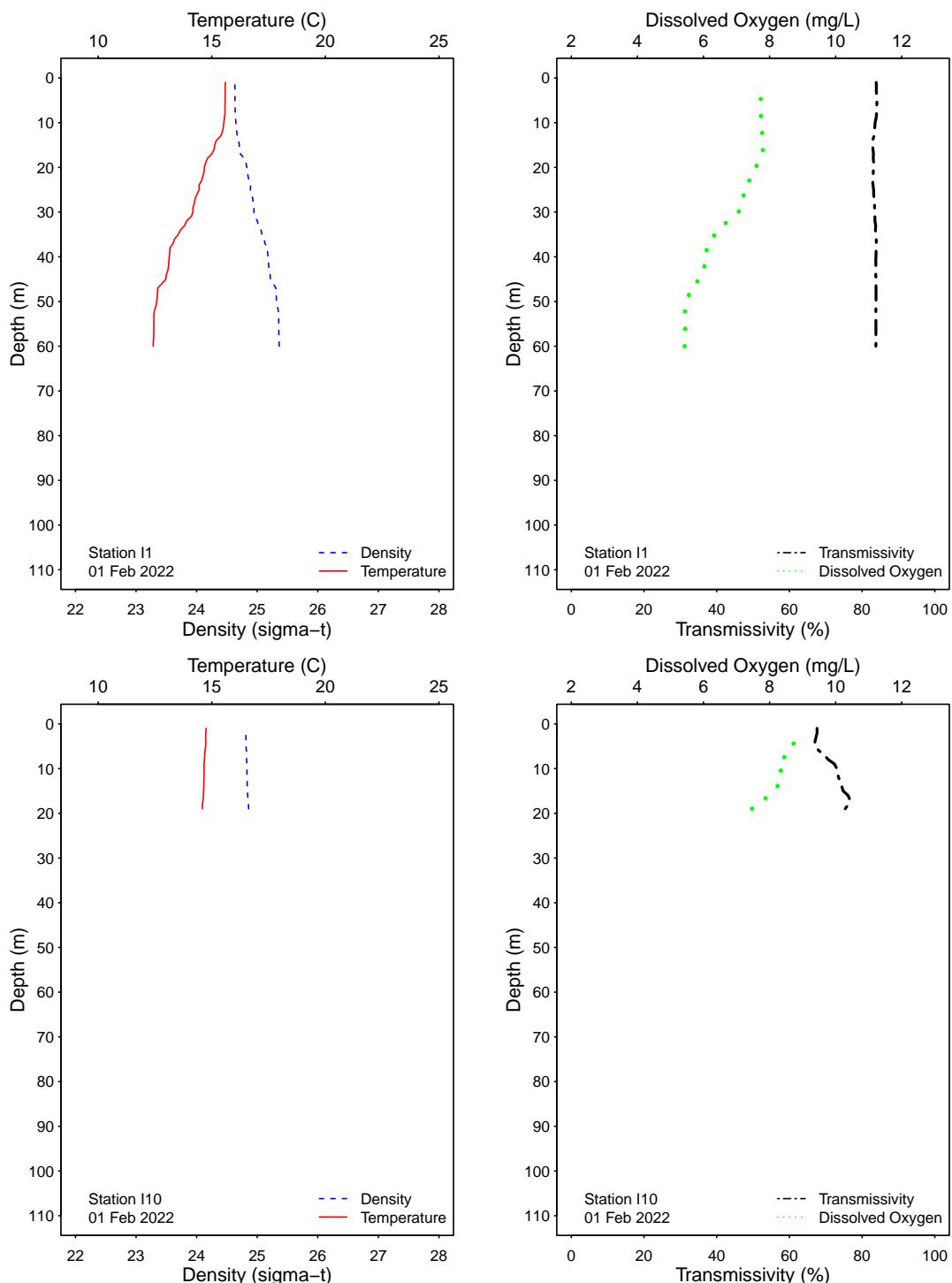


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

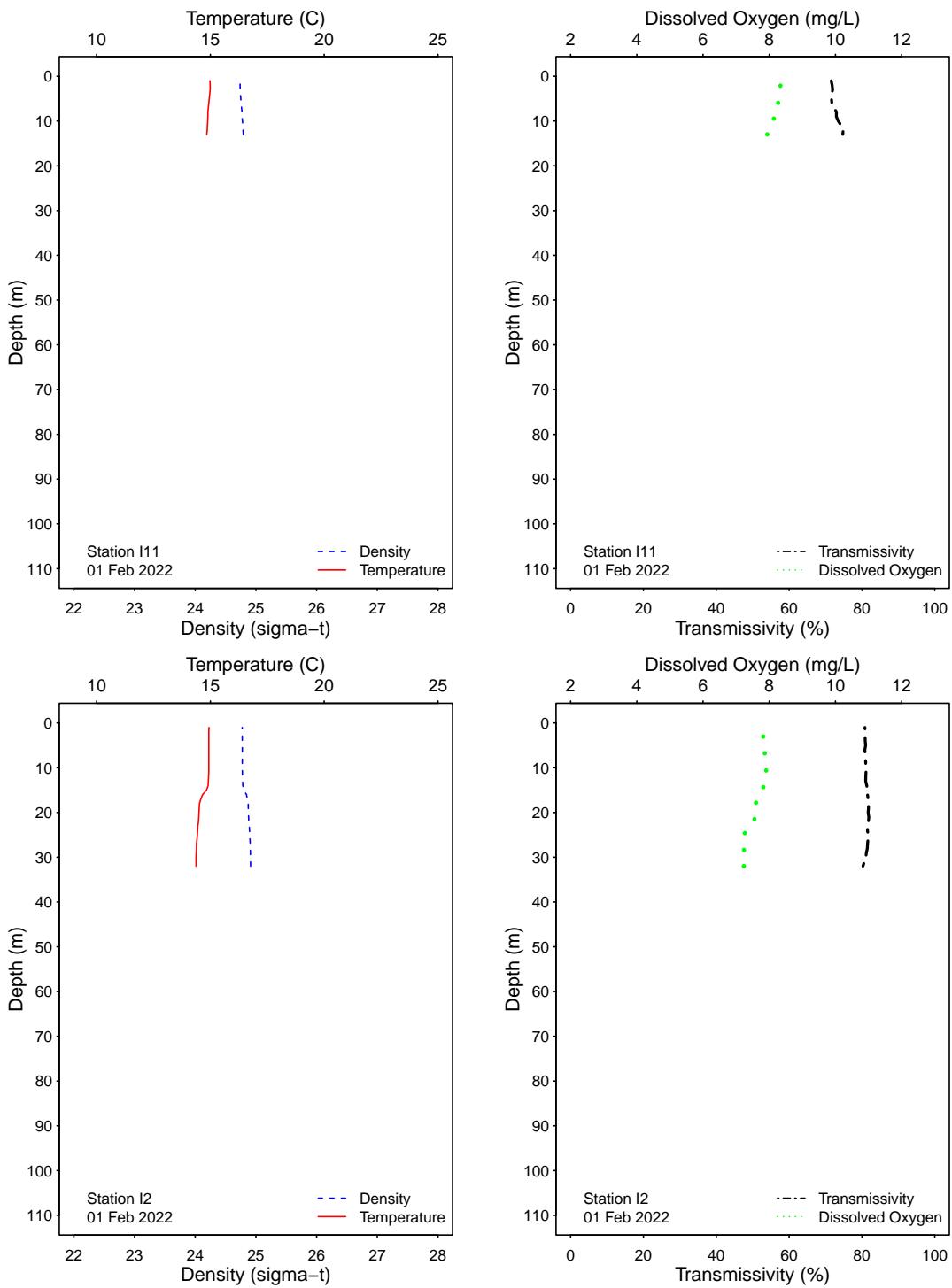


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

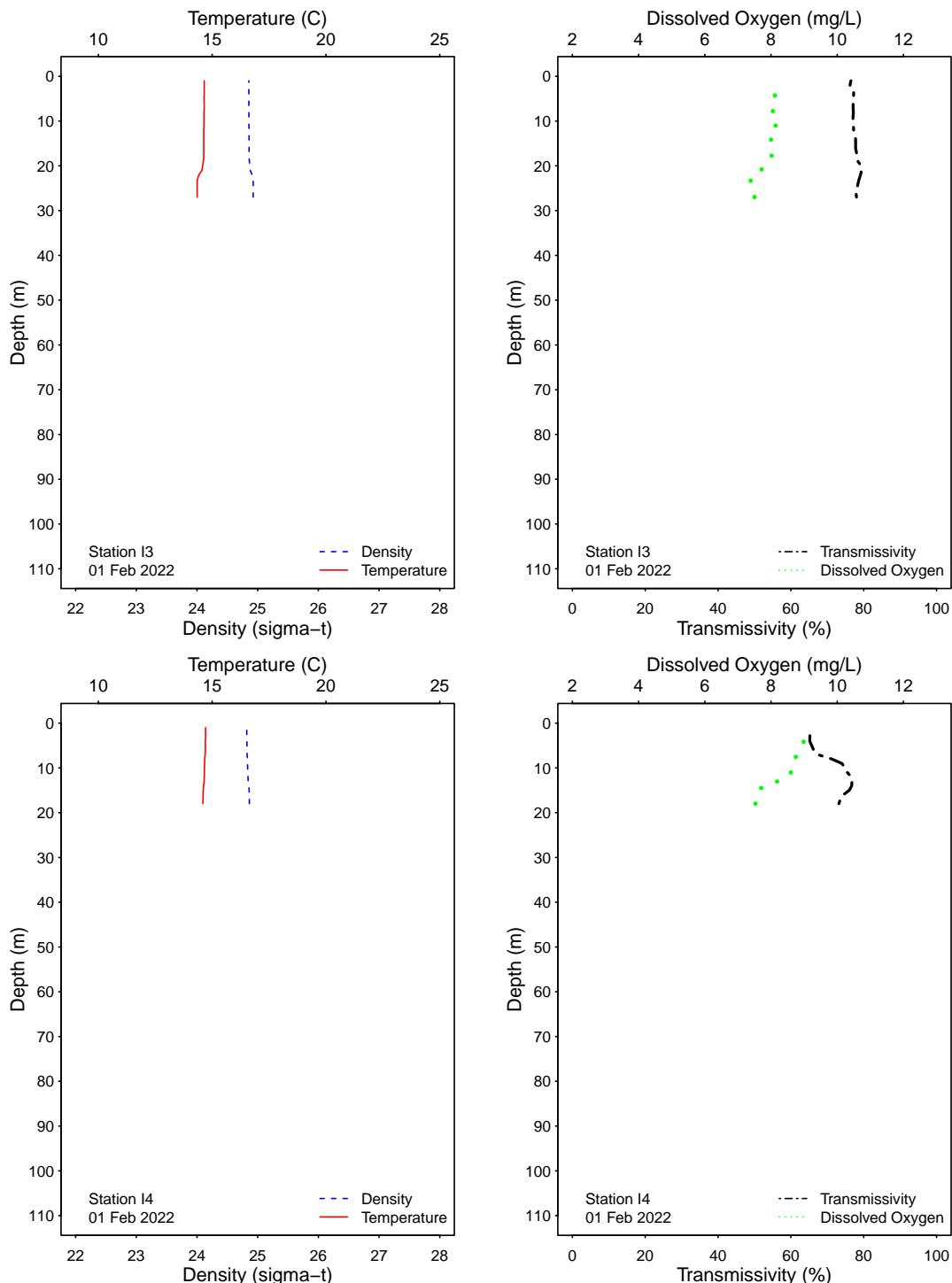


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

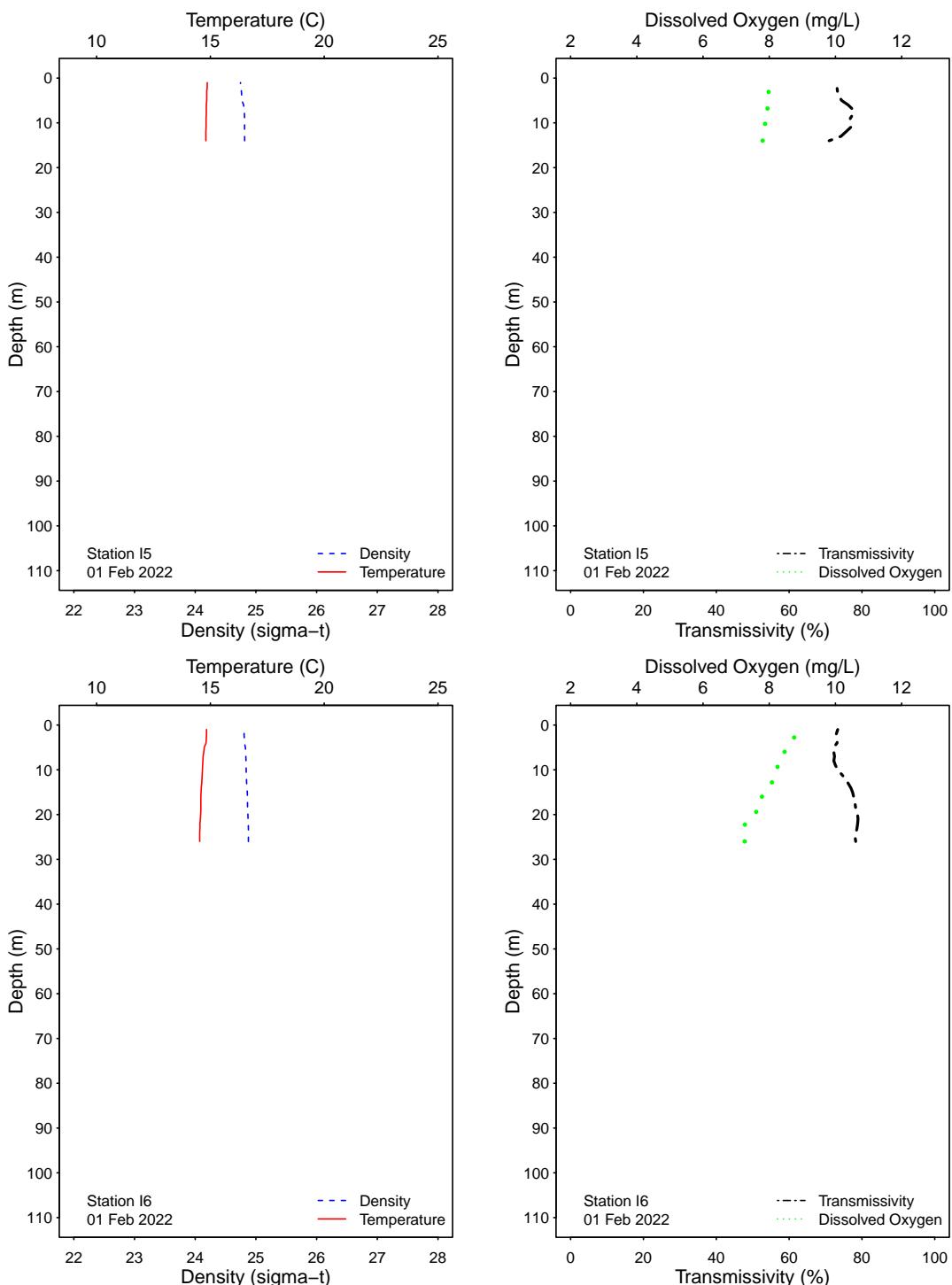


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

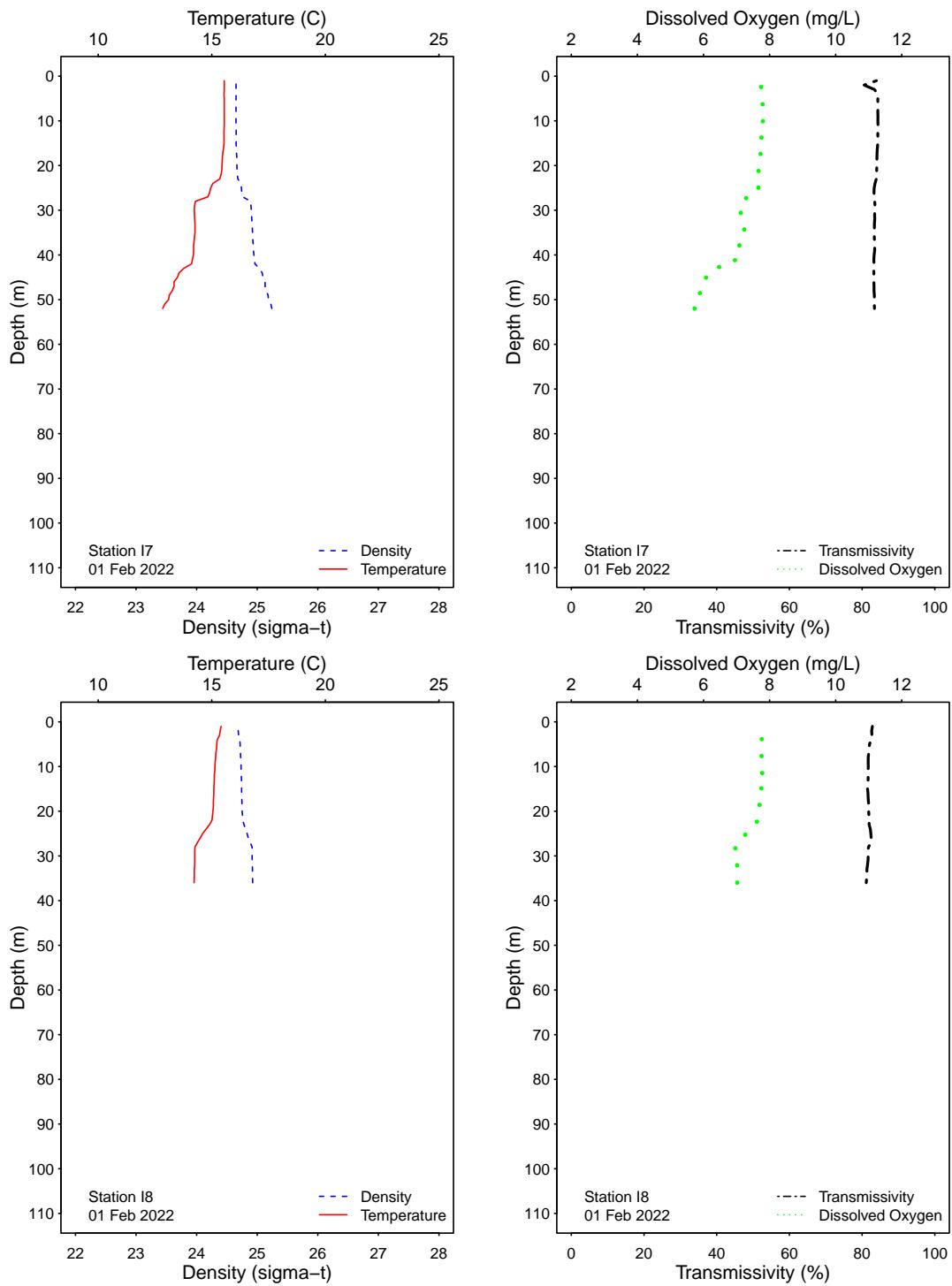


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

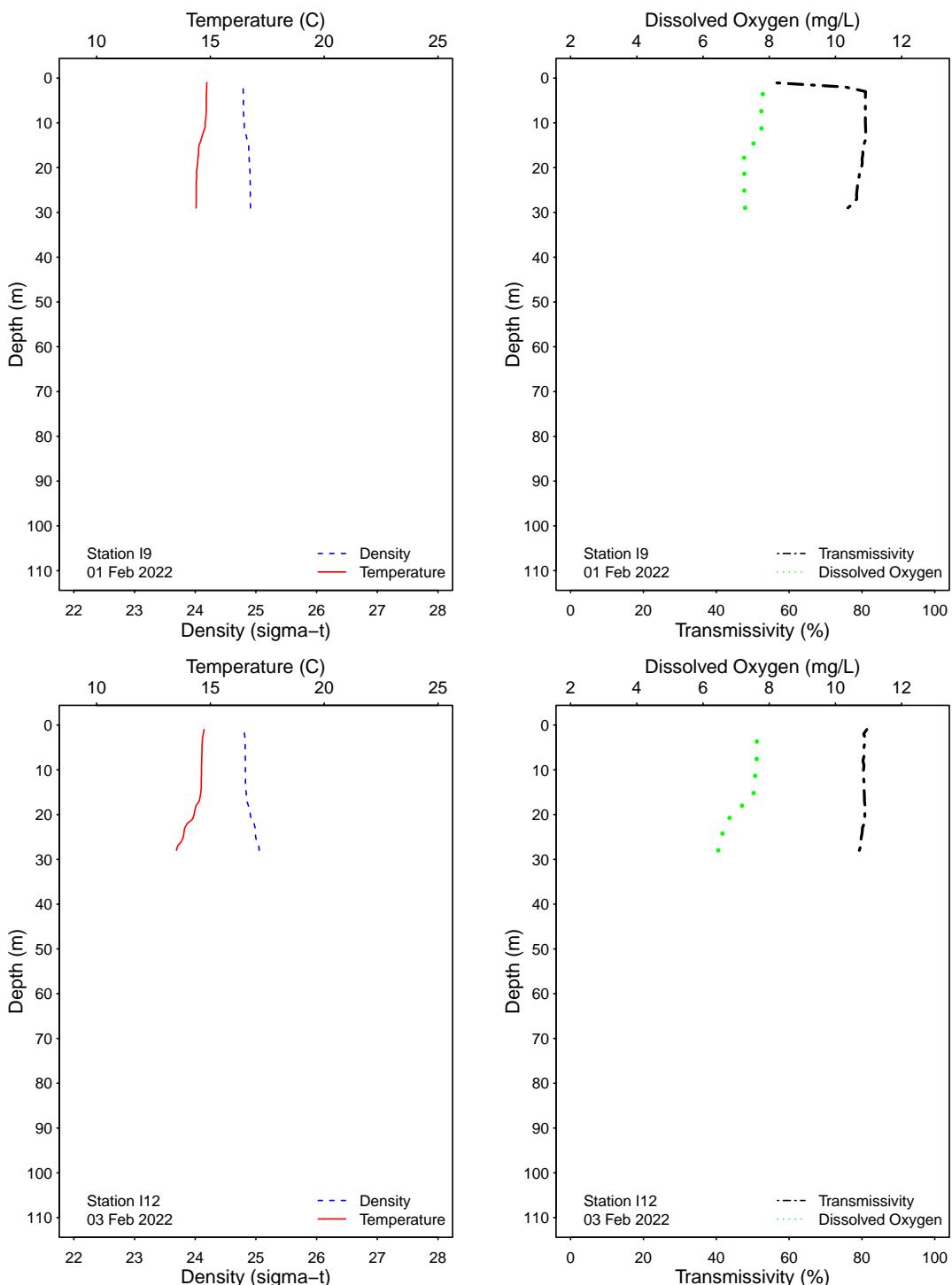


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

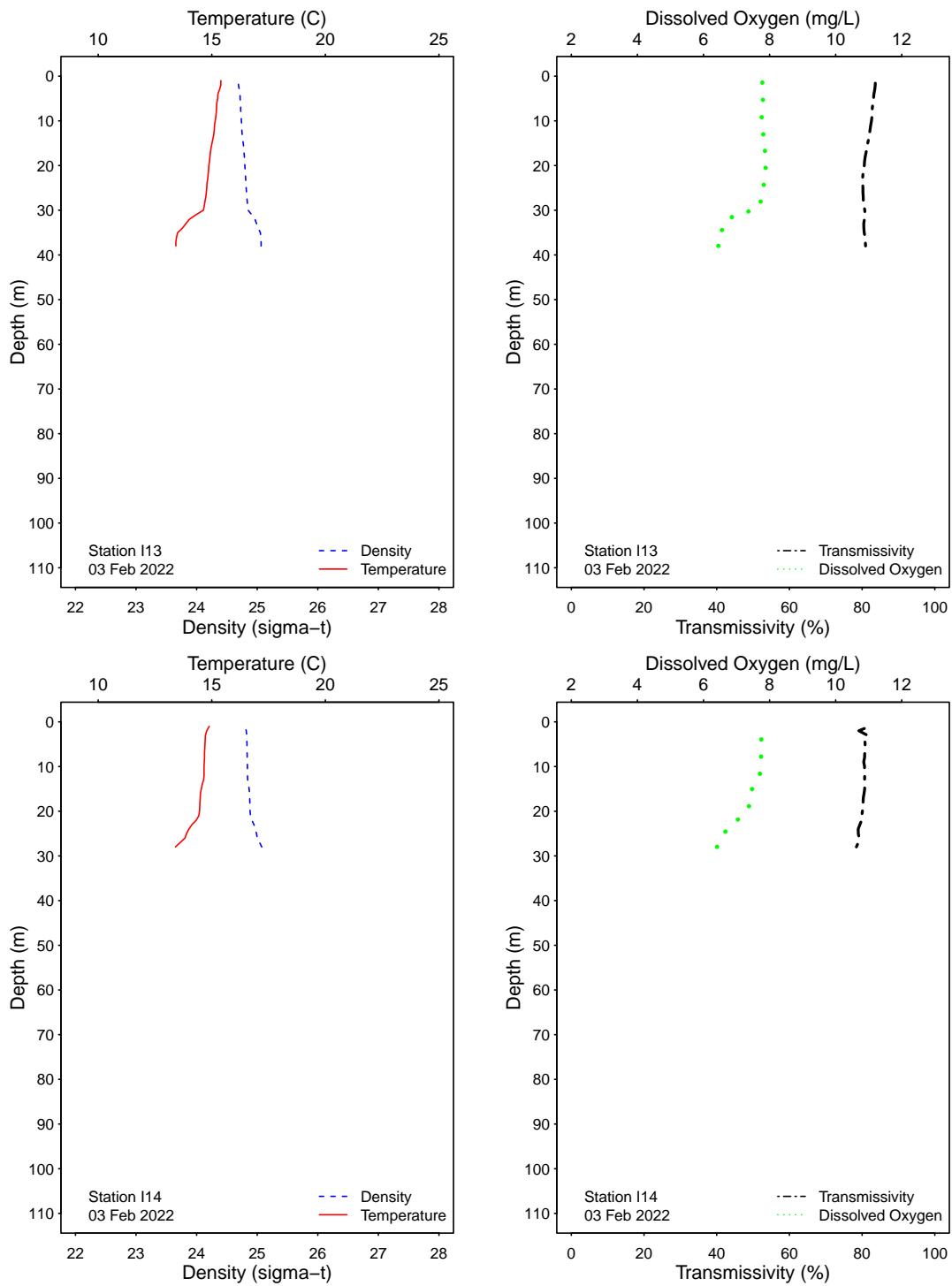


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

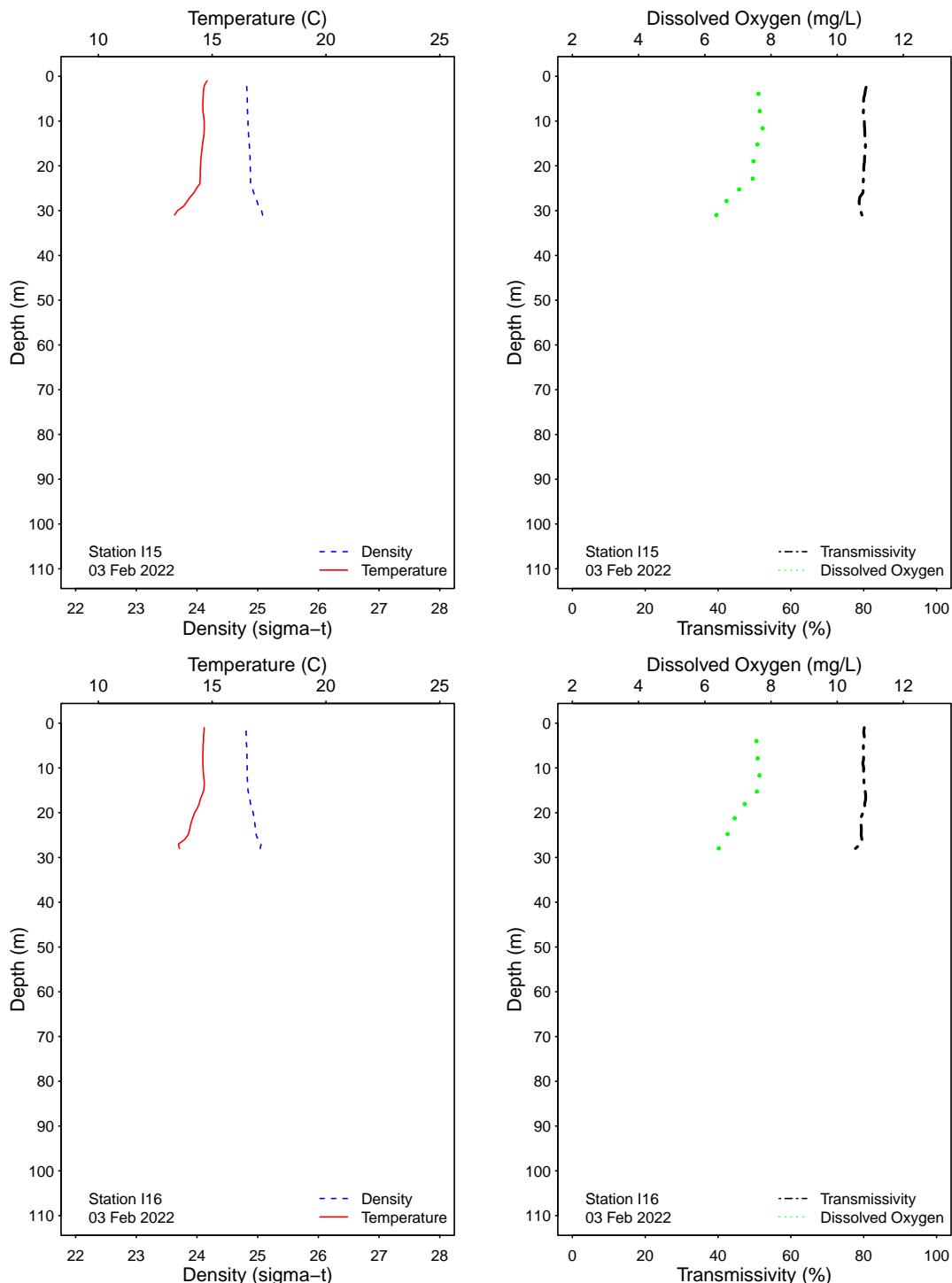


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

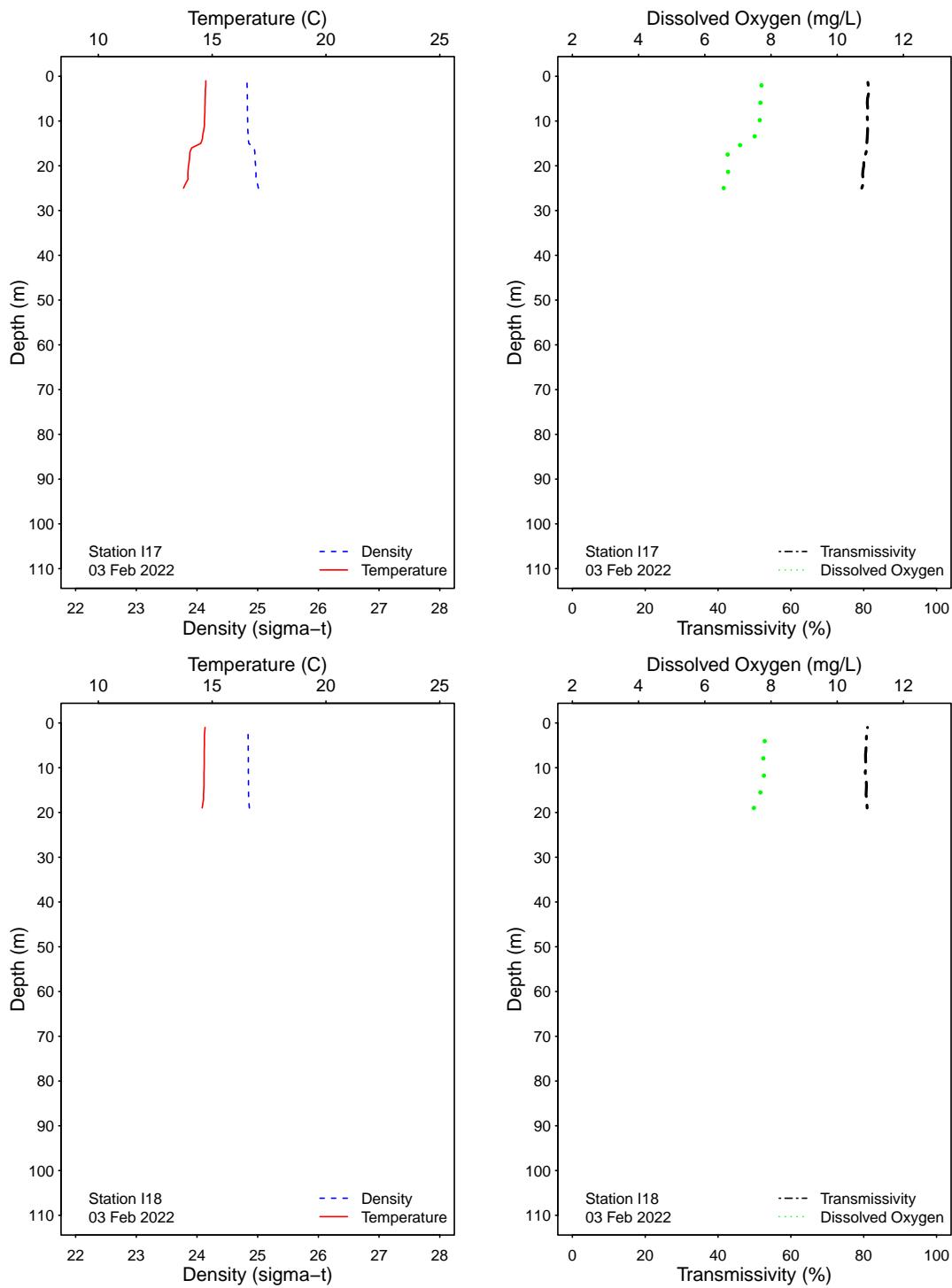


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

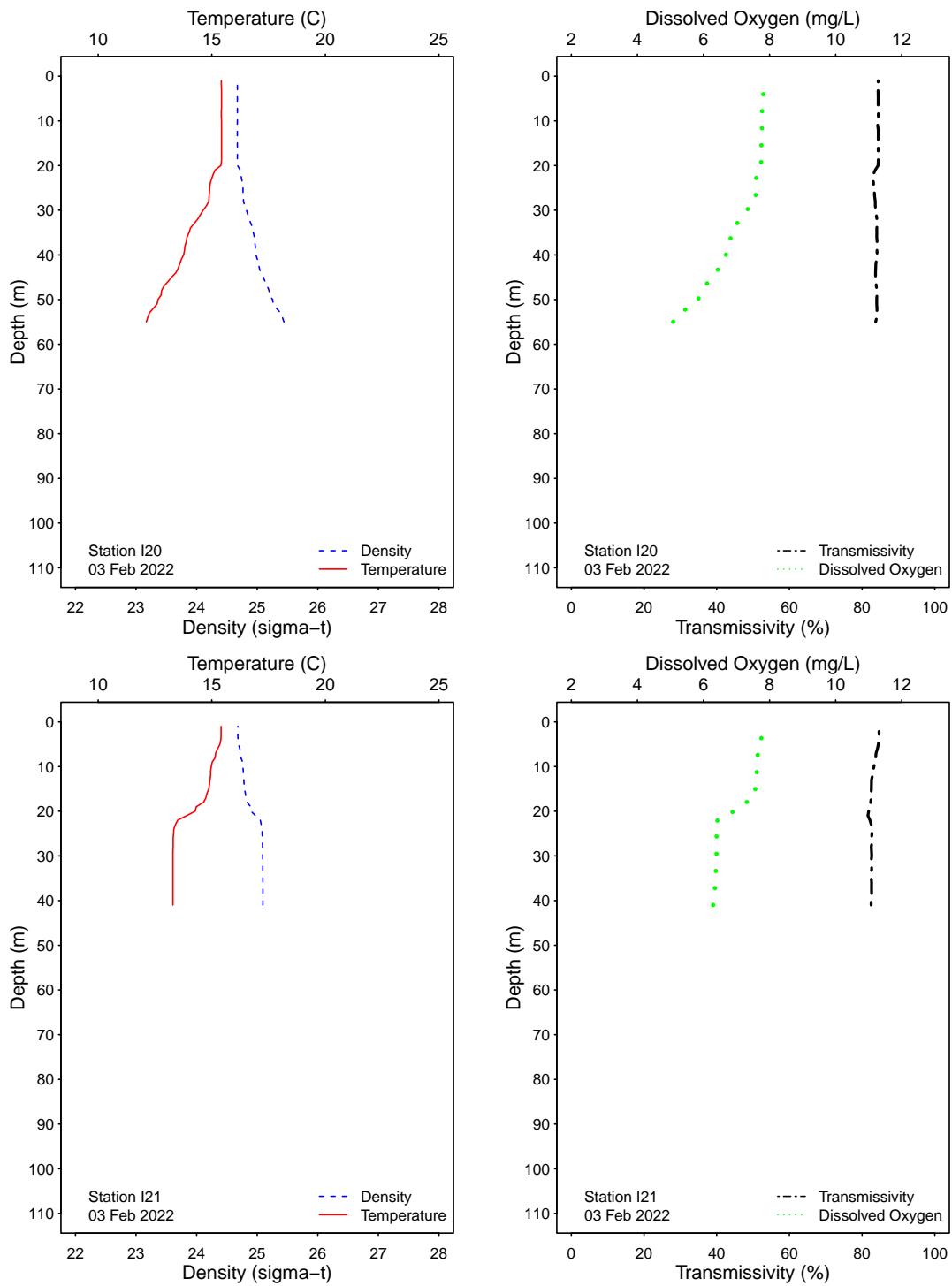


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

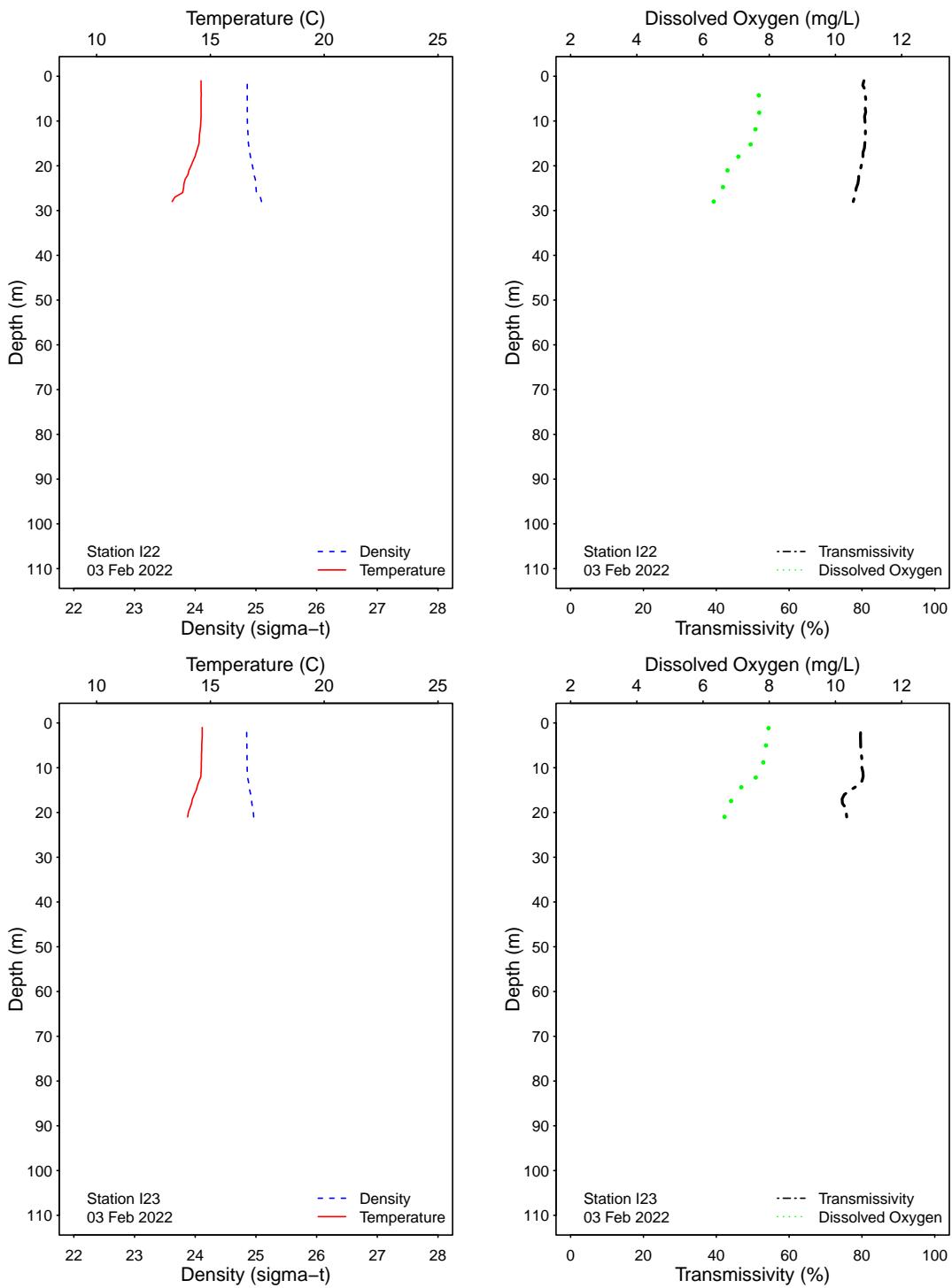


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

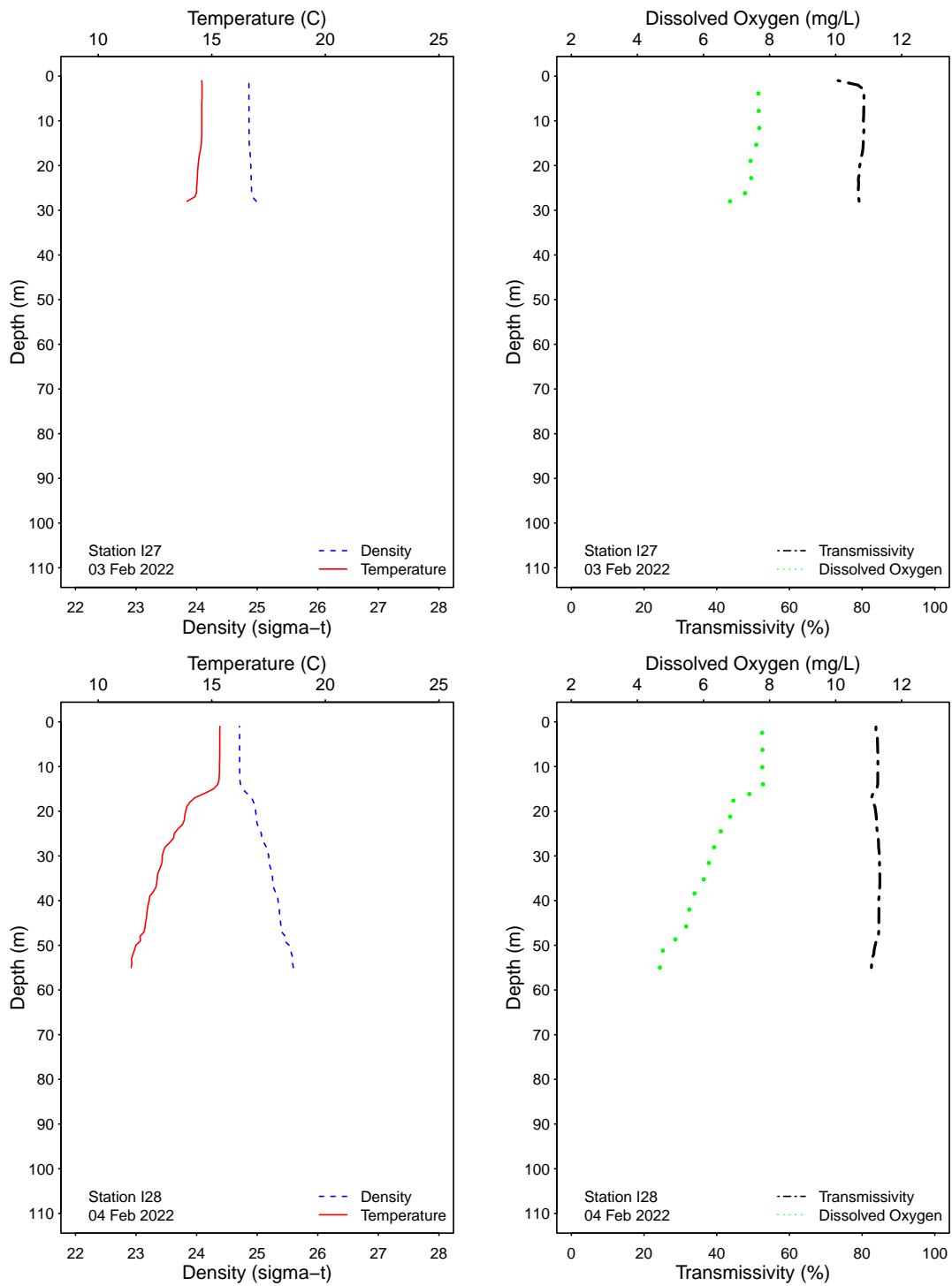


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

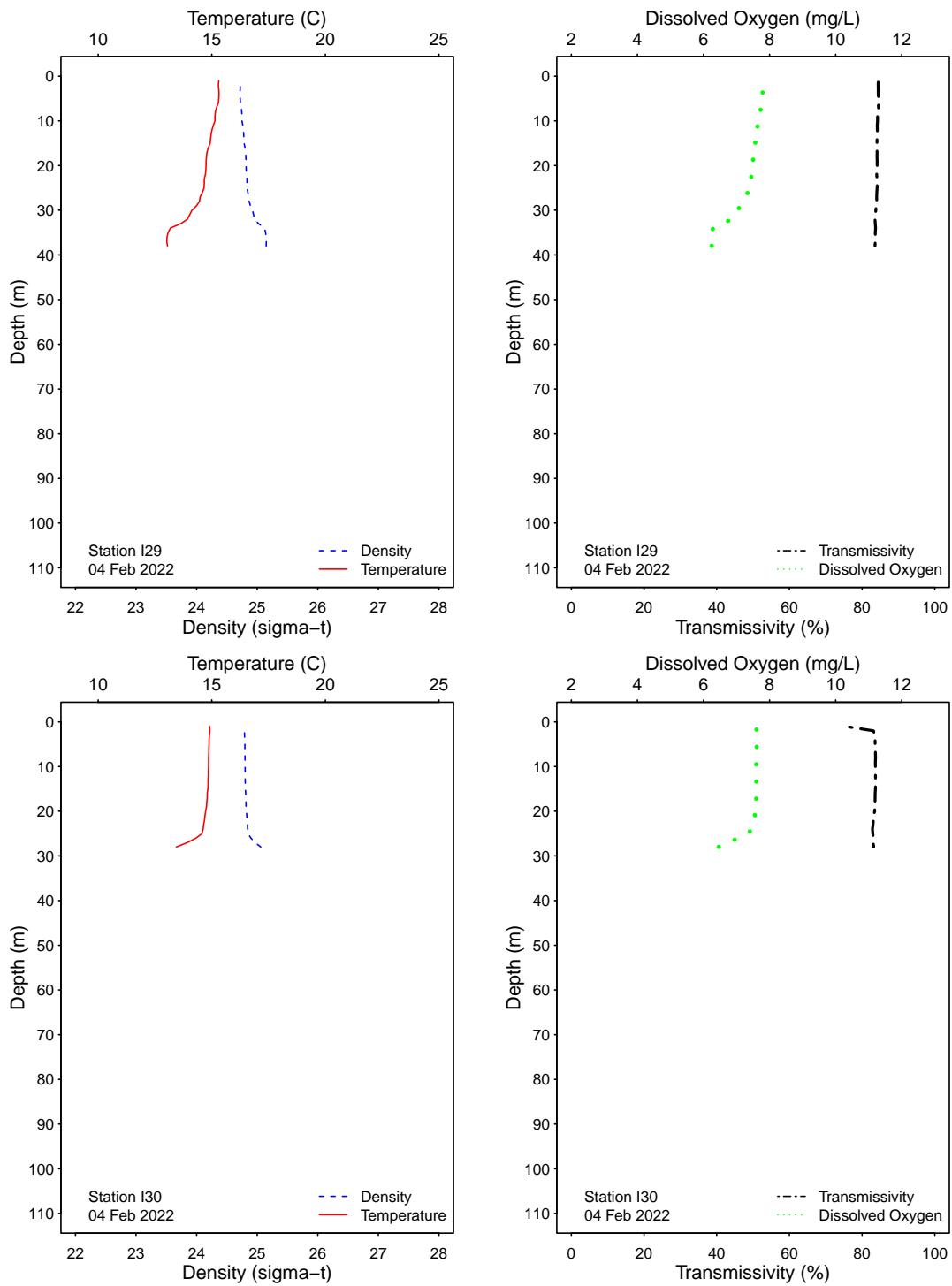


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

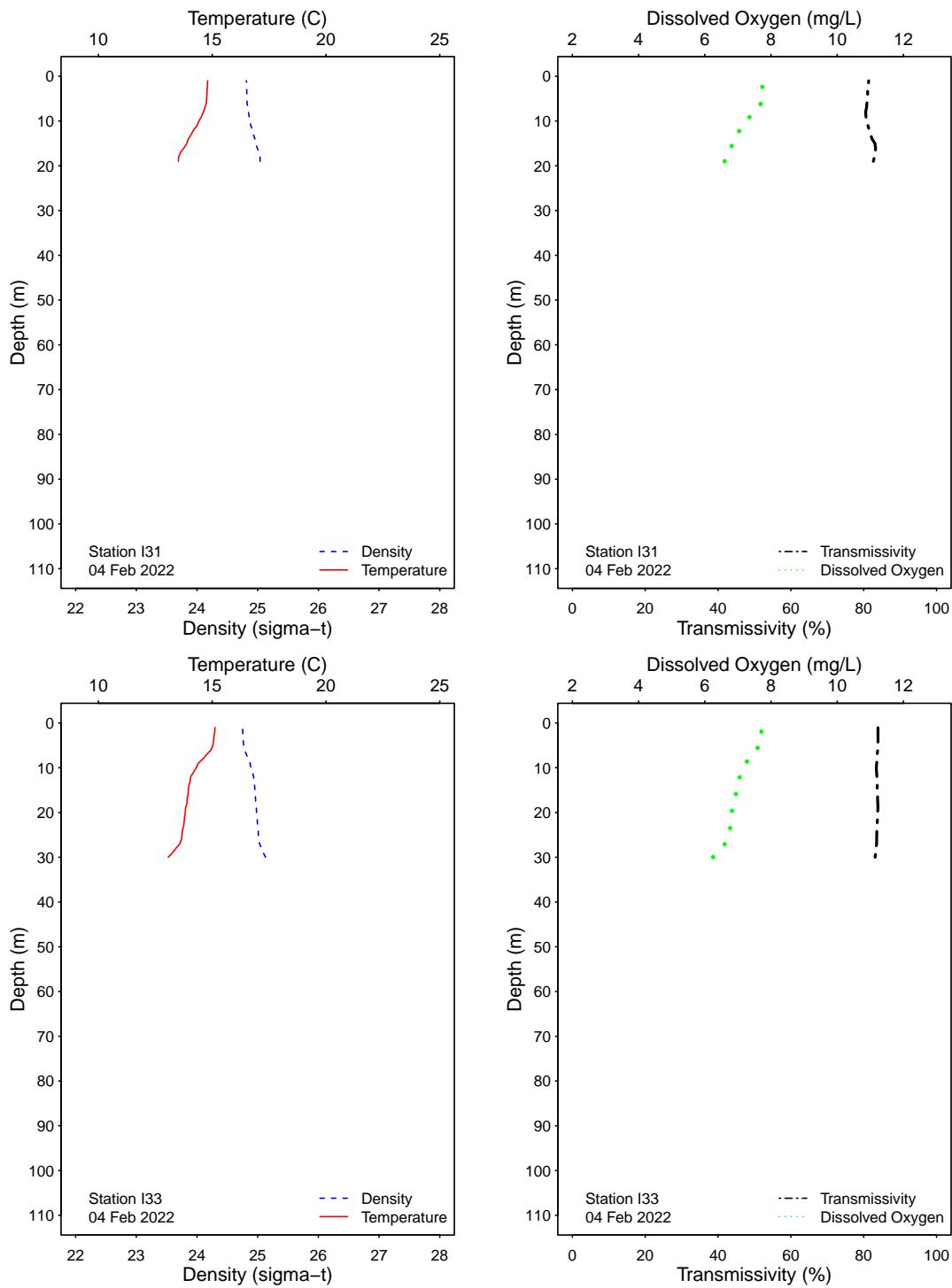


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

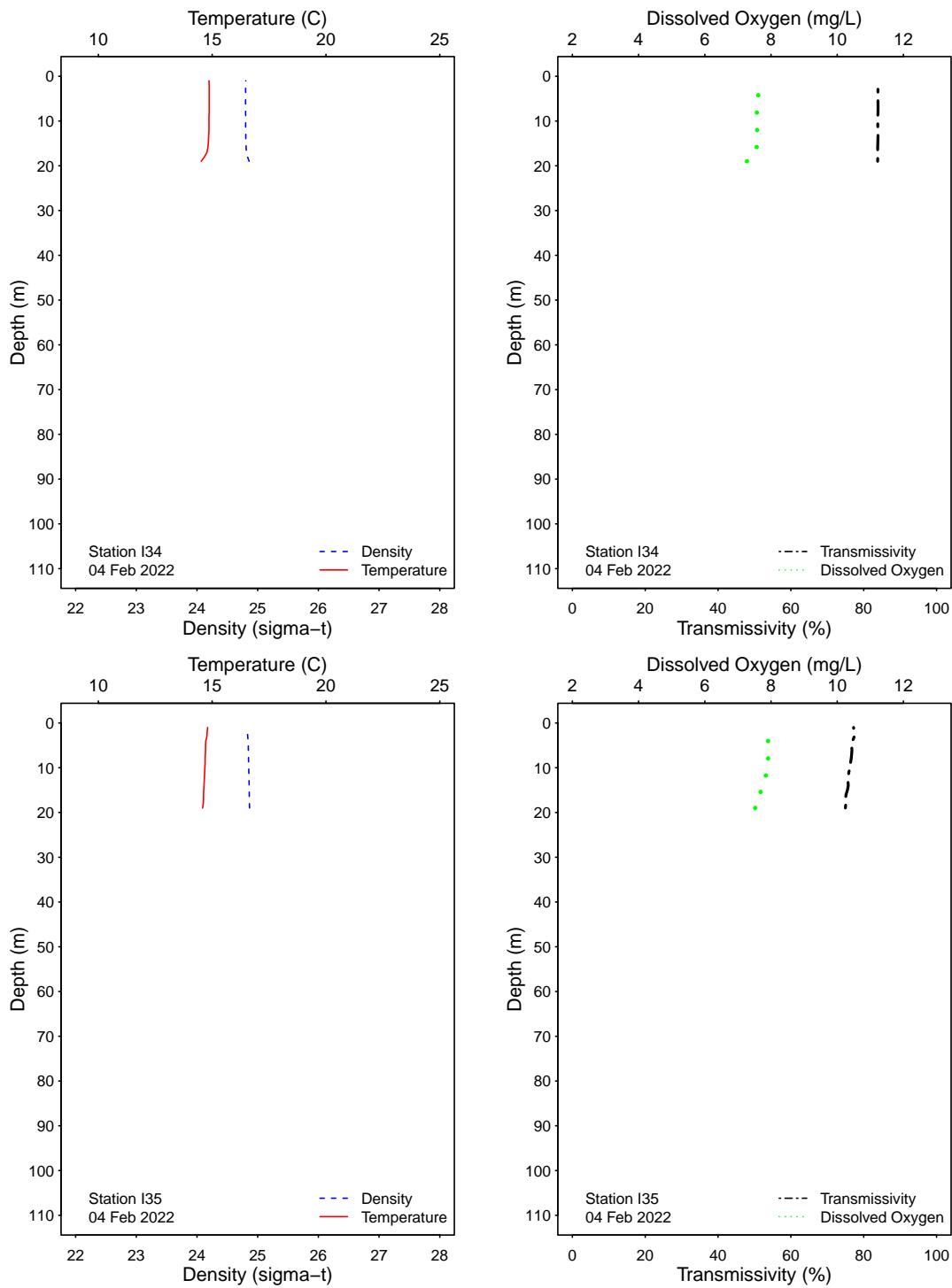


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

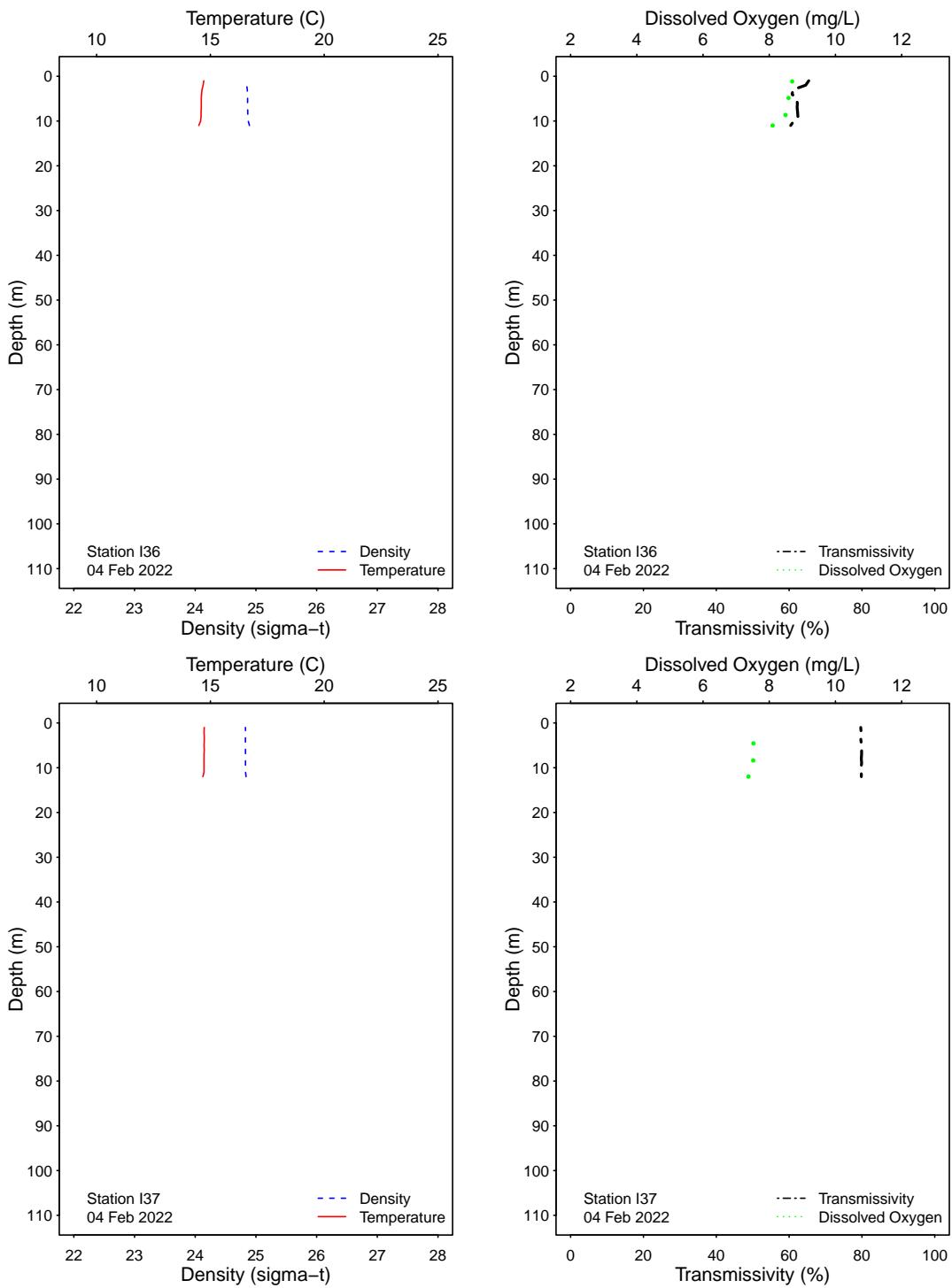


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

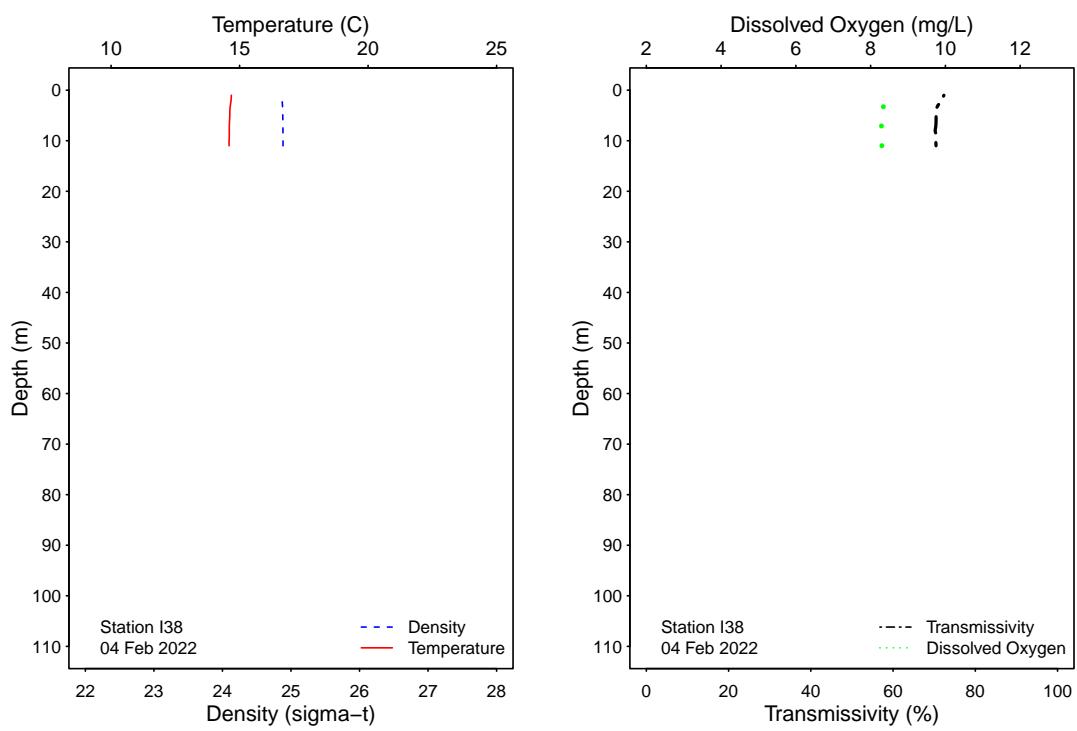


Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

Summary of bacteriological quality assurance field and lab duplicate sample analyses at selected SBOO stations. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL.

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I3	01 Feb 2022	18	JF	LAB DUPLICATE	18e	4e	12e
I8	01 Feb 2022	37	AR	LAB DUPLICATE	<2	<2	<2
I9	01 Feb 2022	27	AR	LAB DUPLICATE	12e	2e	12e
I12	03 Feb 2022	18	JF	LAB DUPLICATE	60e	2e	<2
I13	03 Feb 2022	18	CRE	LAB DUPLICATE	<2	<2	<2
I16	03 Feb 2022	18	KA	LAB DUPLICATE	2e	<2	<2
I19	07 Feb 2022	6	KA	LAB DUPLICATE	40e	8e	6e
I19	17 Feb 2022	6	HF	LAB DUPLICATE	740	66	52
I19	25 Feb 2022	6	CRE	LAB DUPLICATE	600e	34e	26e
I30	04 Feb 2022	27	KA	LAB DUPLICATE	12e	6e	6e
I36	04 Feb 2022	11	KA	FIELD DUPLICATE	4e	<2	<2
I36	04 Feb 2022	11	KA	LAB DUPLICATE	24e	4e	8e
I40	07 Feb 2022	6	KA	LAB DUPLICATE	600e	280e	180e
I40	17 Feb 2022	6	HF	LAB DUPLICATE	2200e	160e	16e
I40	25 Feb 2022	6	CRE	LAB DUPLICATE	4200	480	44
S12	01 Feb 2022		CRE	FIELD DUPLICATE	2600e	580	620
S12	01 Feb 2022		CRE	LAB DUPLICATE	4400	680	480
S12	08 Feb 2022		CRE	FIELD DUPLICATE	2e	<2	<2
S12	08 Feb 2022		CRE	LAB DUPLICATE	2e	2e	<2
S12	15 Feb 2022		JF	FIELD DUPLICATE	60e	<20	12e
S12	15 Feb 2022		JF	LAB DUPLICATE	40e	12e	18e
S12	22 Feb 2022		JF	FIELD DUPLICATE	110	2e	4e
S12	22 Feb 2022		JF	LAB DUPLICATE	140	6e	<2

ns = not sampled

ND = no data

