



SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

APRIL 2021

Environmental Monitoring and Technical Services
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May 31, 2021

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the April 2021 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, 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. R9-2014-0009 as amended by Order Nos. R9-2014-0094, R9-2017-0024, R9-2019-0012, NPDES Permit No. CA0108928).

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

Sincerely,



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

PV/ss

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. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

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

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

Offshore Stations

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

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

Bacteriological Reporting and Quality Assurance

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)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 geometric mean and single sample maximum water-contact standards specified in the California Ocean Plan (Ocean Plan). The seven standards are defined as follows:

30-day Geometric Mean: The following standards are based on the geometric mean of the five most recent samples from each site.

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

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.

Single Sample Maximums:

- (1) Total coliform density shall not exceed 10,000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 400 CFU/100 mL;
- (3) *Enterococcus* density shall not exceed 104 CFU/100 mL;
- (4) Total coliform density shall not exceed 1,000 CFU/100 mL when the fecal coliform/total coliform ratio exceeds 0.1.

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 2021 Quality Assurance Report, which will be completed in March 2022.

SUMMARY OF RESULTS

As of October 2020, new 2019 Ocean Plan Water Quality Objectives are included for a six-week rolling geometric mean of *Enterococcus* density, which shall not exceed 30 cfu/100 ml, and a Statistical Threshold Value (STV) for *Enterococcus*, which shall not exceed 110 cfu/100 ml for more than 10% of samples per month (see Appendix B).

➤ 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 April, five of the eight shore stations located north of the border were out of compliance with 2015 California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows:

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

- The 30-day geometric mean standards for total coliform, fecal coliform and *Enterococcus* were exceeded at stations S4, S5, S6, S10, and S11.
 - The single sample maximum (SSM) standard for total coliform was exceeded at stations S5, S6, S10, and S11.
 - The single sample maximum (SSM) standards for fecal coliform and *Enterococcus* were exceeded at stations S4, S5, S6, S10, and S11.
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, S6, S10, and S11.
 - Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected from stations S0 and S2 on one or more days during April.
- Notable observations included a sewage-like odor at stations S5, S6, S11, and S12 on one or more days during April.
- 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 April 1, 6, 15, 20, and 27.
- During April, four of the seven kelp stations were out of compliance with 2015 Ocean Plan water contact standards on one or more days as follows:
 - The 30-day geometric mean standard for Enterococcus was exceeded at stations I19 and I40.
 - The SSM standard for fecal coliform was exceeded at stations I19, I24, and I40.
 - The SSM standard for Enterococcus was exceeded at stations I19, I24, I25, and I40.
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations I19, I24, I25, and I40.
- Water column temperatures ranged from 10.80 to 16.74°C. The difference between surface and bottom waters ranged from 1.68 to 4.21°C.
- Concentrations of chlorophyll a ranged from 0.73 to 21.17 µg/L at the kelp bed stations.
- Nothing of sewage origin was observed at any of these kelp stations.

➤ **Offshore Water Quality Sampling**

- Quarterly sampling was not conducted during April at the offshore stations. The next quarterly sampling is scheduled for May 2021.



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 total 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 >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	6482	14844	188	17	16	6975	800	48
02 Apr 2021	4579	14918	394	17	16	4142	1318	48
03 Apr 2021	4579	14918	394	17	16	4142	1318	48
04 Apr 2021	4579	14984	670	17	16	4142	1883	48
05 Apr 2021	4579	14984	670	17	16	4142	1883	48
06 Apr 2021	4454	15042	432	11	26	4526	1383	41
07 Apr 2021	4454	15042	432	11	26	4526	1383	41
08 Apr 2021	2896	15042	670	11	50	2657	1705	48
09 Apr 2021	2896	15042	670	11	50	2657	1705	48
10 Apr 2021	2896	13978	670	11	50	2657	1705	48
11 Apr 2021	2896	13978	670	11	50	2657	1705	48
12 Apr 2021	2896	13978	670	11	50	2657	1705	48
13 Apr 2021	2539	14084	528	13	66	2792	1595	41
14 Apr 2021	2539	13978	528	13	66	2792	1595	41
15 Apr 2021	2204	13978	1060	11	89	1580	2982	75
16 Apr 2021	2204	13978	1060	11	89	1580	2982	75
17 Apr 2021	1868	13978	1060	11	89	1280	2982	75
18 Apr 2021	1868	13978	1060	11	89	1280	2982	75
19 Apr 2021	1537	13978	1060	11	89	994	2982	75
20 Apr 2021	883	11040	484	8	105	697	1196	60
21 Apr 2021	679	10802	484	8	105	509	1196	60
22 Apr 2021	550	10540	763	6	112	347	1545	119
23 Apr 2021	550	10540	763	6	112	347	1545	119
24 Apr 2021	504	10251	763	6	112	383	1545	119
25 Apr 2021	504	10251	763	6	112	383	1545	119
26 Apr 2021	358	10602	763	6	112	383	1545	119
27 Apr 2021	260	7308	484	8	80	276	897	89
28 Apr 2021	167	6977	484	8	80	276	897	89
29 Apr 2021	117	6545	318	6	112	186	594	42
30 Apr 2021	117	6545	318	6	112	186	594	42

* Geometric mean calculated using n<5

Table 2.2

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 Apr 2021	1474	9417	107	4	3	2052	195	18
02 Apr 2021	1057	9571	234	4	3	1325	387	18
03 Apr 2021	1057	9571	234	4	3	1325	387	18
04 Apr 2021	1057	9707	349	4	3	1325	632	18
05 Apr 2021	1057	9707	349	4	3	1325	632	18
06 Apr 2021	1043	9829	183	3	3	1478	432	13
07 Apr 2021	1043	9829	183	3	3	1478	432	13
08 Apr 2021	842	9829	277	3	3	1110	575	15
09 Apr 2021	842	9829	277	3	3	1110	575	15
10 Apr 2021	751	8540	277	3	3	1110	575	15
11 Apr 2021	751	8540	277	3	3	1110	575	15
12 Apr 2021	871	8540	277	3	3	1110	575	15
13 Apr 2021	727	8703	229	3	3	1219	530	10
14 Apr 2021	727	8540	229	3	3	1219	530	10
15 Apr 2021	649	9059	451	3	3	720	1176	15
16 Apr 2021	649	9059	451	3	3	720	1176	15
17 Apr 2021	509	9059	451	3	3	558	1176	15
18 Apr 2021	509	9059	451	3	3	558	1176	15
19 Apr 2021	382	8714	451	3	3	410	1176	15
20 Apr 2021	246	6141	229	3	5	279	530	10
21 Apr 2021	191	5903	229	3	5	192	530	10
22 Apr 2021	159	5647	329	3	4	121	846	15
23 Apr 2021	159	5647	329	3	4	121	846	15
24 Apr 2021	159	5371	329	3	4	144	846	15
25 Apr 2021	159	5371	329	3	4	144	846	15
26 Apr 2021	112	5599	329	3	4	144	846	15
27 Apr 2021	72	3454	174	3	3	90	397	10
28 Apr 2021	46	3321	174	3	3	90	397	10
29 Apr 2021	33	3081	115	2	4	58	251	5
30 Apr 2021	33	3081	115	2	4	58	251	5

* Geometric mean calculated using n<5

Table 2.3

Summary of compliance with the Ocean Plan's 30-day 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 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	605	7454	118	3	4	2151	198	14
02 Apr 2021	382	7695	255	3	4	1423	392	14
03 Apr 2021	382	7695	255	3	4	1423	392	14
04 Apr 2021	382	7911	395	3	4	1423	640	14
05 Apr 2021	382	7911	395	3	4	1423	640	14
06 Apr 2021	348	8107	204	3	3	1355	380	10
07 Apr 2021	348	8107	204	3	3	1355	380	10
08 Apr 2021	320	8107	288	3	4	1222	525	10
09 Apr 2021	320	8107	288	3	4	1222	525	10
10 Apr 2021	320	6574	288	3	4	1025	525	10
11 Apr 2021	320	6574	288	3	4	1025	525	10
12 Apr 2021	320	7566	288	3	4	1046	525	10
13 Apr 2021	260	7763	263	3	3	1145	501	9
14 Apr 2021	260	7566	263	3	3	942	501	9
15 Apr 2021	231	7566	563	3	4	749	1219	11
16 Apr 2021	231	7566	563	3	4	749	1219	11
17 Apr 2021	184	7566	301	3	4	595	598	11
18 Apr 2021	184	7566	301	3	4	595	598	11
19 Apr 2021	119	7566	301	3	4	441	598	11
20 Apr 2021	79	7303	182	3	7	270	338	9
21 Apr 2021	54	7093	182	3	7	185	338	9
22 Apr 2021	41	4768	246	3	4	116	453	11
23 Apr 2021	41	4768	246	3	4	116	453	11
24 Apr 2021	40	4500	246	3	4	126	453	11
25 Apr 2021	40	4500	246	3	4	126	453	11
26 Apr 2021	40	5136	246	3	4	126	453	11
27 Apr 2021	27	3429	152	4	4	80	264	11
28 Apr 2021	27	3372	152	4	4	80	264	11
29 Apr 2021	19	3149	128	4	4	51	193	6
30 Apr 2021	19	3149	128	4	4	51	193	6

* Geometric mean calculated using n<5

Table 2.4

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	IC	E	E	ns	ns	IC	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	IC	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	IC	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.5

Summary of compliance 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 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.6

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	E	IC	IC	E	E	IC
15 Apr 2021	ns	E	E	ns	ns	IC	E	ns
17 Apr 2021	ns	E	IC	ns	ns	ns	IC	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	E	IC	IC	IC	IC	IC	IC
22 Apr 2021	ns	IC	ns	ns	ns	ns	ns	ns
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.7

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Apr 2021	E	E	E	ns	ns	E	E	IC
02 Apr 2021	IC	E	E	ns	ns	IC	E	ns
04 Apr 2021	ns	E	E	ns	ns	ns	E	ns
06 Apr 2021	E	E	IC	IC	IC	E	IC	IC
08 Apr 2021	IC	E	ns	ns	ns	IC	ns	ns
10 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
12 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
13 Apr 2021	IC	E	IC	IC	IC	E	IC	IC
15 Apr 2021	ns	E	ns	ns	ns	IC	ns	ns
17 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
19 Apr 2021	ns	E	ns	ns	ns	ns	ns	ns
20 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC
27 Apr 2021	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 2.8

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

Station	Date	Time	Total	Fecal	Enter	F:T
S0	06 Apr 2021	845	5000	540	200e	0.11
S0	13 Apr 2021	815	>16000	>12000	>12000	0.75
S0	20 Apr 2021	1115	>16000	5000	3600e	0.31
S0	27 Apr 2021	850	>16000	5000	1600e	0.31
S2	06 Apr 2021	805	<200	40	12e	0.20
S2	13 Apr 2021	925	340e	500	600	1.47
S2	20 Apr 2021	1027	6e	2e	4e	0.33
S2	27 Apr 2021	800	200e	20e	40	0.10
S3	06 Apr 2021	735	3600e	100	4e	0.03
S3	13 Apr 2021	855	1000e	76	44	0.08
S3	20 Apr 2021	1005	20e	2e	<2	0.10
S3	27 Apr 2021	730	2000e	60	8e	0.03
S4	01 Apr 2021	820	2600e	640	340e	0.25
S4	02 Apr 2021	1250	100e	14e	6e	0.14
S4	06 Apr 2021	845	3200e	860	140e	0.27
S4	08 Apr 2021	906	20e	18e	26e	0.90
S4	13 Apr 2021	930	460	70	26e	0.15
S4	20 Apr 2021	1055	<2	<2	2e	1.00
S4	27 Apr 2021	1158	<20	2e	<2	0.10
S5	01 Apr 2021	731	>16000	>12000	>12000	0.75
S5	02 Apr 2021	1125	>16000	>12000	>12000	0.75
S5	04 Apr 2021	1100	>16000	>12000	>12000	0.75
S5	06 Apr 2021	945	>16000	>12000	>12000	0.75
S5	08 Apr 2021	1053	>16000	>12000	>12000	0.75
S5	10 Apr 2021	630	4600	1100	340e	0.24
S5	12 Apr 2021	815	>16000	>12000	>12000	0.75
S5	13 Apr 2021	802	>16000	>12000	>12000	0.75
S5	15 Apr 2021	752	>16000	>12000	>12000	0.75
S5	17 Apr 2021	920	>16000	>12000	>12000	0.75
S5	19 Apr 2021	840	>16000	6200	>12000	0.39
S5	20 Apr 2021	936	200e	16e	4000	0.08
S5	22 Apr 2021	855	ns	ns	14e	ns
S5	27 Apr 2021	949	40e	4e	8e	0.10
S6	01 Apr 2021	750	>16000	>12000	12000	0.75
S6	02 Apr 2021	1155	>16000	>12000	>12000	0.75
S6	04 Apr 2021	1115	>16000	3800e	5400	0.24
S6	06 Apr 2021	1010	<20	<2	2e	0.10
S6	13 Apr 2021	824	100e	60e	140e	0.60
S6	15 Apr 2021	816	ns	ns	5200	ns
S6	17 Apr 2021	948	ns	ns	<2	ns
S6	20 Apr 2021	956	<2	<2	<2	1.00
S6	27 Apr 2021	1010	<20	2e	<2	0.10
S8	06 Apr 2021	1055	<2	<2	<2	1.00
S8	13 Apr 2021	1033	<20	<2	<2	0.10
S8	20 Apr 2021	825	2e	<2	<2	1.00
S8	27 Apr 2021	852	<20	2e	20e	0.10
S9	06 Apr 2021	1125	<200	2e	<2	0.01

Station	Date	Time	Total	Fecal	Enter	F:T
S9	13 Apr 2021	1110	<200	<2	<2	0.01
S9	20 Apr 2021	758	<200	28e	48	0.14
S9	27 Apr 2021	826	<20	<2	<2	0.10
S10	01 Apr 2021	830	6400	1200e	520	0.19
S10	02 Apr 2021	1240	38e	26e	10e	0.68
S10	06 Apr 2021	830	11000	4400	720	0.40
S10	08 Apr 2021	940	20e	12e	28e	0.60
S10	13 Apr 2021	950	4800	3400e	3400e	0.71
S10	15 Apr 2021	904	14e	<2	32e	0.14
S10	20 Apr 2021	1038	<20	6e	2e	0.30
S10	27 Apr 2021	1135	<20	<2	<2	0.10
S11	01 Apr 2021	743	>16000	>12000	>12000	0.75
S11	02 Apr 2021	1145	>16000	>12000	>12000	0.75
S11	04 Apr 2021	1110	>16000	>12000	>12000	0.75
S11	06 Apr 2021	955	160e	30e	10e	0.19
S11	13 Apr 2021	816	1000e	300e	360e	0.30
S11	15 Apr 2021	807	ns	ns	7400	ns
S11	17 Apr 2021	939	ns	ns	2e	ns
S11	20 Apr 2021	947	<2	<2	<2	1.00
S11	27 Apr 2021	1002	<20	2e	<2	0.10
S12	01 Apr 2021	710	800e	180e	46	0.22
S12	06 Apr 2021	1030	<20	2e	2e	0.10
S12	13 Apr 2021	845	<20	2e	4e	0.10
S12	20 Apr 2021	914	<20	<2	<2	0.10
S12	27 Apr 2021	927	<20	2e	8e	0.10

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S10	01 Apr 2021			Resample
S11	01 Apr 2021			Resample
S12	01 Apr 2021			Resample
S4	01 Apr 2021			Resample
S5	01 Apr 2021			Resample
S6	01 Apr 2021			Resample
S4	02 Apr 2021			Resample
S5	02 Apr 2021			Resample
S6	02 Apr 2021			Resample
S10	02 Apr 2021			Resample
S11	02 Apr 2021			Resample
S6	04 Apr 2021			Resample
S5	04 Apr 2021			Resample
S11	04 Apr 2021			Resample
S4	08 Apr 2021			Resample
S5	08 Apr 2021			Resample
S10	08 Apr 2021			Resample
S5	10 Apr 2021			Resample
S5	12 Apr 2021			Resample
S5	15 Apr 2021			Resample
S6	15 Apr 2021			Resample
S10	15 Apr 2021			Resample
S11	15 Apr 2021			Resample
S6	17 Apr 2021			Resample
S5	17 Apr 2021			Resample
S11	17 Apr 2021			Resample
S5	19 Apr 2021			Resample
S5	22 Apr 2021			Resample

Table 2.9

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

Station	Date	Parameter	Value
S0	06 Apr 2021	Arrive Time	845
S0	06 Apr 2021	Weather	Sunny
S0	06 Apr 2021	Wind Speed (kts)	1.8
S0	06 Apr 2021	Wind Dir	SW
S0	06 Apr 2021	Animal Life	20 Seagulls; 5 Dogs
S0	06 Apr 2021	Floatables	None
S0	06 Apr 2021	Water Color	Green
S0	06 Apr 2021	Current Direction	S
S0	06 Apr 2021	Water Temp (C)	14
S0	06 Apr 2021	Wave Height Low (ft)	2
S0	06 Apr 2021	High Tide (ft)	4.64
S0	06 Apr 2021	High Tide Time	557
S0	06 Apr 2021	Low Tide (ft)	-0.47
S0	06 Apr 2021	Low Tide Time	1311
S0	06 Apr 2021	Comments	Algae; Kelp; Water turbid; 1.0L/sec water flowing from storm drain
S0	13 Apr 2021	Arrive Time	815
S0	13 Apr 2021	Weather	Sunny
S0	13 Apr 2021	Wind Speed (kts)	6.2
S0	13 Apr 2021	Wind Dir	NE
S0	13 Apr 2021	Animal Life	20 Seagulls
S0	13 Apr 2021	Floatables	None
S0	13 Apr 2021	Water Color	Green
S0	13 Apr 2021	Current Direction	N
S0	13 Apr 2021	Water Temp (C)	14
S0	13 Apr 2021	Wave Height Low (ft)	3
S0	13 Apr 2021	High Tide (ft)	3.96
S0	13 Apr 2021	High Tide Time	1042
S0	13 Apr 2021	Low Tide (ft)	-0.05
S0	13 Apr 2021	Low Tide Time	442
S0	13 Apr 2021	Comments	Algae; Kelp; Water clear; 0.5L/sec water flowing from storm drain
S0	20 Apr 2021	Arrive Time	1115
S0	20 Apr 2021	Weather	Cloudy
S0	20 Apr 2021	Wind Speed (kts)	5.4
S0	20 Apr 2021	Wind Dir	N
S0	20 Apr 2021	Animal Life	10 Seagulls
S0	20 Apr 2021	Floatables	None
S0	20 Apr 2021	Water Color	Green
S0	20 Apr 2021	Current Direction	N
S0	20 Apr 2021	Water Temp (C)	14
S0	20 Apr 2021	Wave Height Low (ft)	3
S0	20 Apr 2021	High Tide (ft)	3.96
S0	20 Apr 2021	High Tide Time	315
S0	20 Apr 2021	Low Tide (ft)	0.33
S0	20 Apr 2021	Low Tide Time	1128
S0	20 Apr 2021	Comments	Kelp; Algae; Water clear; 1 Person; 0.5L/sec water flowing from storm drain
S0	27 Apr 2021	Arrive Time	850
S0	27 Apr 2021	Weather	Cloudy
S0	27 Apr 2021	Wind Speed (kts)	1.1
S0	27 Apr 2021	Wind Dir	NE
S0	27 Apr 2021	Animal Life	10 Seagulls

Station	Date	Parameter	Value
S0	27 Apr 2021	Floatables	None
S0	27 Apr 2021	Water Color	Green
S0	27 Apr 2021	Current Direction	N
S0	27 Apr 2021	Water Temp (C)	12
S0	27 Apr 2021	Wave Height Low (ft)	3
S0	27 Apr 2021	High Tide (ft)	4.57
S0	27 Apr 2021	High Tide Time	1010
S0	27 Apr 2021	Low Tide (ft)	-1.11
S0	27 Apr 2021	Low Tide Time	405
S0	27 Apr 2021	Comments	Kelp; Algae; 2 Persons; 0.5L/sec water flowing from storm drain
S2	06 Apr 2021	Arrive Time	805
S2	06 Apr 2021	Weather	Sunny
S2	06 Apr 2021	Wind Speed (kts)	2.7
S2	06 Apr 2021	Wind Dir	SW
S2	06 Apr 2021	Animal Life	20 Seagulls; 2 Dogs
S2	06 Apr 2021	Floatables	None
S2	06 Apr 2021	Water Color	Green
S2	06 Apr 2021	Current Direction	S
S2	06 Apr 2021	Water Temp (C)	14
S2	06 Apr 2021	Wave Height Low (ft)	2
S2	06 Apr 2021	High Tide (ft)	4.64
S2	06 Apr 2021	High Tide Time	557
S2	06 Apr 2021	Low Tide (ft)	-0.47
S2	06 Apr 2021	Low Tide Time	1311
S2	06 Apr 2021	Comments	Algae; Kelp; Water turbid; No flow from storm drain
S2	13 Apr 2021	Arrive Time	925
S2	13 Apr 2021	Weather	Sunny
S2	13 Apr 2021	Wind Speed (kts)	6
S2	13 Apr 2021	Wind Dir	NE
S2	13 Apr 2021	Animal Life	20 Seagulls; 4 Dogs
S2	13 Apr 2021	Floatables	None
S2	13 Apr 2021	Water Color	Green
S2	13 Apr 2021	Current Direction	N
S2	13 Apr 2021	Water Temp (C)	14
S2	13 Apr 2021	Wave Height Low (ft)	3
S2	13 Apr 2021	High Tide (ft)	3.96
S2	13 Apr 2021	High Tide Time	1042
S2	13 Apr 2021	Low Tide (ft)	-0.05
S2	13 Apr 2021	Low Tide Time	442
S2	13 Apr 2021	Comments	Algae; Kelp; Water clear; 7 Persons; No flow from storm drain
S2	20 Apr 2021	Arrive Time	1027
S2	20 Apr 2021	Weather	Cloudy
S2	20 Apr 2021	Wind Speed (kts)	6.8
S2	20 Apr 2021	Wind Dir	N
S2	20 Apr 2021	Animal Life	10 Seagulls; 3 Dogs
S2	20 Apr 2021	Floatables	None
S2	20 Apr 2021	Water Color	Green
S2	20 Apr 2021	Current Direction	N
S2	20 Apr 2021	Water Temp (C)	14
S2	20 Apr 2021	Wave Height Low (ft)	3
S2	20 Apr 2021	High Tide (ft)	3.96
S2	20 Apr 2021	High Tide Time	315
S2	20 Apr 2021	Low Tide (ft)	0.33
S2	20 Apr 2021	Low Tide Time	1128
S2	20 Apr 2021	Comments	Kelp; Algae; Water clear; 12 Persons; No flow from storm drain

Station	Date	Parameter	Value
S2	27 Apr 2021	Arrive Time	800
S2	27 Apr 2021	Weather	Cloudy
S2	27 Apr 2021	Wind Speed (kts)	1.5
S2	27 Apr 2021	Wind Dir	NE
S2	27 Apr 2021	Animal Life	6 Dogs
S2	27 Apr 2021	Floatables	None
S2	27 Apr 2021	Water Color	Green
S2	27 Apr 2021	Current Direction	N
S2	27 Apr 2021	Water Temp (C)	12
S2	27 Apr 2021	Wave Height Low (ft)	3
S2	27 Apr 2021	High Tide (ft)	4.57
S2	27 Apr 2021	High Tide Time	1010
S2	27 Apr 2021	Low Tide (ft)	-1.11
S2	27 Apr 2021	Low Tide Time	405
S2	27 Apr 2021	Comments	Algae; Kelp; 10 Persons; No flow from storm drain
S3	06 Apr 2021	Arrive Time	735
S3	06 Apr 2021	Weather	Sunny
S3	06 Apr 2021	Wind Speed (kts)	2.3
S3	06 Apr 2021	Wind Dir	SW
S3	06 Apr 2021	Animal Life	20 Seagulls
S3	06 Apr 2021	Floatables	None
S3	06 Apr 2021	Water Color	Green
S3	06 Apr 2021	Current Direction	S
S3	06 Apr 2021	Water Temp (C)	14
S3	06 Apr 2021	Wave Height Low (ft)	2
S3	06 Apr 2021	High Tide (ft)	4.64
S3	06 Apr 2021	High Tide Time	557
S3	06 Apr 2021	Low Tide (ft)	-0.47
S3	06 Apr 2021	Low Tide Time	1311
S3	06 Apr 2021	Comments	Algae; Kelp; Water turbid; No flow from storm drain
S3	13 Apr 2021	Arrive Time	855
S3	13 Apr 2021	Weather	Sunny
S3	13 Apr 2021	Wind Speed (kts)	5.8
S3	13 Apr 2021	Wind Dir	NE
S3	13 Apr 2021	Animal Life	20 Seagulls; 1 Dog
S3	13 Apr 2021	Floatables	None
S3	13 Apr 2021	Water Color	Green
S3	13 Apr 2021	Current Direction	N
S3	13 Apr 2021	Water Temp (C)	14
S3	13 Apr 2021	Wave Height Low (ft)	3
S3	13 Apr 2021	High Tide (ft)	3.96
S3	13 Apr 2021	High Tide Time	1042
S3	13 Apr 2021	Low Tide (ft)	-0.05
S3	13 Apr 2021	Low Tide Time	442
S3	13 Apr 2021	Comments	Algae; Kelp; Water clear; 6 Swimmers; 0.5L/sec water flowing from storm drain
S3	20 Apr 2021	Arrive Time	1005
S3	20 Apr 2021	Weather	Cloudy
S3	20 Apr 2021	Wind Speed (kts)	7.7
S3	20 Apr 2021	Wind Dir	N
S3	20 Apr 2021	Animal Life	10 Seagulls
S3	20 Apr 2021	Floatables	None
S3	20 Apr 2021	Water Color	Green
S3	20 Apr 2021	Current Direction	N
S3	20 Apr 2021	Water Temp (C)	14
S3	20 Apr 2021	Wave Height Low (ft)	3
S3	20 Apr 2021	High Tide (ft)	3.96
S3	20 Apr 2021	High Tide Time	315

Station	Date	Parameter	Value
S3	20 Apr 2021	Low Tide (ft)	0.33
S3	20 Apr 2021	Low Tide Time	1128
S3	20 Apr 2021	Comments	Kelp; Algae; 1 Person; 0.5L/sec water flowing from storm drain
S3	27 Apr 2021	Arrive Time	730
S3	27 Apr 2021	Weather	Cloudy
S3	27 Apr 2021	Wind Speed (kts)	1.1
S3	27 Apr 2021	Wind Dir	NE
S3	27 Apr 2021	Animal Life	1 Dog
S3	27 Apr 2021	Floatables	None
S3	27 Apr 2021	Water Color	Green
S3	27 Apr 2021	Current Direction	N
S3	27 Apr 2021	Water Temp (C)	12
S3	27 Apr 2021	Wave Height Low (ft)	3
S3	27 Apr 2021	High Tide (ft)	4.57
S3	27 Apr 2021	High Tide Time	1010
S3	27 Apr 2021	Low Tide (ft)	-1.11
S3	27 Apr 2021	Low Tide Time	405
S3	27 Apr 2021	Comments	Algae; Kelp; 10 Persons; 0.5L/sec water flowing from storm drain
S4	01 Apr 2021	Arrive Time	820
S4	01 Apr 2021	Weather	Sunny
S4	01 Apr 2021	Wind Speed (kts)	8.7
S4	01 Apr 2021	Wind Dir	E
S4	01 Apr 2021	Animal Life	4 Godwits
S4	01 Apr 2021	Floatables	Foam; Film; Debris
S4	01 Apr 2021	Water Color	Green
S4	01 Apr 2021	Current Direction	N
S4	01 Apr 2021	Water Temp (C)	15
S4	01 Apr 2021	Wave Height Low (ft)	3
S4	01 Apr 2021	High Tide (ft)	3.38
S4	01 Apr 2021	High Tide Time	1301
S4	01 Apr 2021	Low Tide (ft)	-0.43
S4	01 Apr 2021	Low Tide Time	652
S4	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Clear
S4	02 Apr 2021	Arrive Time	1250
S4	02 Apr 2021	Weather	Sunny
S4	02 Apr 2021	Wind Speed (kts)	9.3
S4	02 Apr 2021	Wind Dir	SW
S4	02 Apr 2021	Animal Life	None
S4	02 Apr 2021	Floatables	Foam; Film
S4	02 Apr 2021	Water Color	Green
S4	02 Apr 2021	Current Direction	N
S4	02 Apr 2021	Water Temp (C)	17.5
S4	02 Apr 2021	Wave Height Low (ft)	3
S4	02 Apr 2021	High Tide (ft)	2.89
S4	02 Apr 2021	High Tide Time	1434
S4	02 Apr 2021	Low Tide (ft)	-0.19
S4	02 Apr 2021	Low Tide Time	804
S4	02 Apr 2021	Comments	Resample; Kelp; Algae; Seagrass; Debris; Trash-2; Water turbid
S4	06 Apr 2021	Arrive Time	845
S4	06 Apr 2021	Weather	Sunny
S4	06 Apr 2021	Wind Speed (kts)	2.9
S4	06 Apr 2021	Wind Dir	W
S4	06 Apr 2021	Animal Life	None
S4	06 Apr 2021	Floatables	Foam; Film

Station	Date	Parameter	Value
S4	06 Apr 2021	Water Color	Green
S4	06 Apr 2021	Current Direction	S
S4	06 Apr 2021	Water Temp (C)	15.2
S4	06 Apr 2021	Wave Height Low (ft)	2
S4	06 Apr 2021	High Tide (ft)	4.64
S4	06 Apr 2021	High Tide Time	557
S4	06 Apr 2021	Low Tide (ft)	-0.47
S4	06 Apr 2021	Low Tide Time	1311
S4	06 Apr 2021	Comments	Water turbid; Debris; Trash-1
S4	08 Apr 2021	Arrive Time	906
S4	08 Apr 2021	Weather	Partly Cloudy
S4	08 Apr 2021	Wind Speed (kts)	1.9
S4	08 Apr 2021	Wind Dir	W
S4	08 Apr 2021	Animal Life	None
S4	08 Apr 2021	Floatables	Foam; Film
S4	08 Apr 2021	Water Color	Green
S4	08 Apr 2021	Current Direction	S
S4	08 Apr 2021	Water Temp (C)	15.9
S4	08 Apr 2021	Wave Height Low (ft)	2
S4	08 Apr 2021	High Tide (ft)	4.93
S4	08 Apr 2021	High Tide Time	744
S4	08 Apr 2021	Low Tide (ft)	-0.41
S4	08 Apr 2021	Low Tide Time	1423
S4	08 Apr 2021	Comments	Resample; Water turbid; Debris; Trash-3; Kelp; Seagrass
S4	13 Apr 2021	Arrive Time	930
S4	13 Apr 2021	Weather	Cloudy
S4	13 Apr 2021	Wind Speed (kts)	6.2
S4	13 Apr 2021	Wind Dir	W
S4	13 Apr 2021	Animal Life	20 Flies
S4	13 Apr 2021	Floatables	Foam; Film
S4	13 Apr 2021	Water Color	Green
S4	13 Apr 2021	Current Direction	S
S4	13 Apr 2021	Water Temp (C)	16.2
S4	13 Apr 2021	Wave Height Low (ft)	2
S4	13 Apr 2021	High Tide (ft)	3.96
S4	13 Apr 2021	High Tide Time	1042
S4	13 Apr 2021	Low Tide (ft)	-0.05
S4	13 Apr 2021	Low Tide Time	442
S4	13 Apr 2021	Comments	Water turbid; Trash-4; Seagrass; Kelp; Debris
S4	20 Apr 2021	Arrive Time	1055
S4	20 Apr 2021	Weather	Partly Cloudy
S4	20 Apr 2021	Wind Speed (kts)	8.2
S4	20 Apr 2021	Wind Dir	S
S4	20 Apr 2021	Animal Life	None
S4	20 Apr 2021	Floatables	Foam
S4	20 Apr 2021	Water Color	Green
S4	20 Apr 2021	Current Direction	N
S4	20 Apr 2021	Water Temp (C)	13
S4	20 Apr 2021	Wave Height Low (ft)	2
S4	20 Apr 2021	High Tide (ft)	3.96
S4	20 Apr 2021	High Tide Time	315
S4	20 Apr 2021	Low Tide (ft)	0.33
S4	20 Apr 2021	Low Tide Time	1128
S4	20 Apr 2021	Comments	Kelp; Seagrass; Debris; Water clear
S4	27 Apr 2021	Arrive Time	1158
S4	27 Apr 2021	Weather	Sunny
S4	27 Apr 2021	Wind Speed (kts)	10.6

Station	Date	Parameter	Value
S4	27 Apr 2021	Wind Dir	W
S4	27 Apr 2021	Animal Life	None
S4	27 Apr 2021	Floatables	Foam; Film
S4	27 Apr 2021	Water Color	Green
S4	27 Apr 2021	Current Direction	N
S4	27 Apr 2021	Water Temp (C)	14.8
S4	27 Apr 2021	Wave Height Low (ft)	3
S4	27 Apr 2021	High Tide (ft)	4.57
S4	27 Apr 2021	High Tide Time	1010
S4	27 Apr 2021	Low Tide (ft)	-1.11
S4	27 Apr 2021	Low Tide Time	405
S4	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Debris; Trash-2
S5	01 Apr 2021	Arrive Time	731
S5	01 Apr 2021	Weather	Sunny
S5	01 Apr 2021	Wind Speed (kts)	3.6
S5	01 Apr 2021	Wind Dir	E
S5	01 Apr 2021	Animal Life	None
S5	01 Apr 2021	Floatables	Foam; Film
S5	01 Apr 2021	Water Color	Brown
S5	01 Apr 2021	Current Direction	N
S5	01 Apr 2021	Water Temp (C)	14
S5	01 Apr 2021	Wave Height Low (ft)	1
S5	01 Apr 2021	High Tide (ft)	3.38
S5	01 Apr 2021	High Tide Time	1301
S5	01 Apr 2021	Low Tide (ft)	-0.43
S5	01 Apr 2021	Low Tide Time	652
S5	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Turbid; 1 Person; Sewage-like odor
S5	02 Apr 2021	Arrive Time	1125
S5	02 Apr 2021	Weather	Sunny
S5	02 Apr 2021	Wind Speed (kts)	10.4
S5	02 Apr 2021	Wind Dir	W
S5	02 Apr 2021	Animal Life	150 Terns; 15 Pelicans
S5	02 Apr 2021	Floatables	Foam; Film
S5	02 Apr 2021	Water Color	Brown
S5	02 Apr 2021	Current Direction	N
S5	02 Apr 2021	Water Temp (C)	20.9
S5	02 Apr 2021	Wave Height Low (ft)	2
S5	02 Apr 2021	High Tide (ft)	2.89
S5	02 Apr 2021	High Tide Time	1434
S5	02 Apr 2021	Low Tide (ft)	-0.19
S5	02 Apr 2021	Low Tide Time	804
S5	02 Apr 2021	Comments	Resample; Seagrass; Water turbid; Trash-1; Sewage-like odor; 3 Persons
S5	04 Apr 2021	Arrive Time	1100
S5	04 Apr 2021	Weather	Sunny
S5	04 Apr 2021	Wind Speed (kts)	6.2
S5	04 Apr 2021	Wind Dir	N
S5	04 Apr 2021	Animal Life	100 Terns; 18 Pelicans; 10 Seagulls
S5	04 Apr 2021	Floatables	Foam; Film
S5	04 Apr 2021	Water Color	Brown
S5	04 Apr 2021	Current Direction	S
S5	04 Apr 2021	Water Temp (C)	20.3
S5	04 Apr 2021	Wave Height Low (ft)	1
S5	04 Apr 2021	High Tide (ft)	4.6
S5	04 Apr 2021	High Tide Time	257
S5	04 Apr 2021	Low Tide (ft)	-0.13
S5	04 Apr 2021	Low Tide Time	1108

Station	Date	Parameter	Value
S5	04 Apr 2021	Comments	Resample; Kelp; Seagrass; Water turbid; Sewage-like Odor
S5	06 Apr 2021	Arrive Time	945
S5	06 Apr 2021	Weather	Hazy
S5	06 Apr 2021	Wind Speed (kts)	4.2
S5	06 Apr 2021	Wind Dir	SW
S5	06 Apr 2021	Animal Life	4 Pelicans; 1 Egret
S5	06 Apr 2021	Floatables	Foam; Film
S5	06 Apr 2021	Water Color	Brown
S5	06 Apr 2021	Current Direction	S
S5	06 Apr 2021	Water Temp (C)	17.1
S5	06 Apr 2021	Wave Height Low (ft)	1
S5	06 Apr 2021	High Tide (ft)	4.64
S5	06 Apr 2021	High Tide Time	557
S5	06 Apr 2021	Low Tide (ft)	-0.47
S5	06 Apr 2021	Low Tide Time	1311
S5	06 Apr 2021	Comments	Water Turbid; Seagrass; Kelp; Debris; Trash-1; Sewage-like odor
S5	08 Apr 2021	Arrive Time	1053
S5	08 Apr 2021	Weather	Partly Cloudy
S5	08 Apr 2021	Wind Speed (kts)	5
S5	08 Apr 2021	Wind Dir	W
S5	08 Apr 2021	Animal Life	3 Seagulls
S5	08 Apr 2021	Floatables	Foam; Film
S5	08 Apr 2021	Water Color	Brown
S5	08 Apr 2021	Current Direction	S
S5	08 Apr 2021	Water Temp (C)	17.2
S5	08 Apr 2021	Wave Height Low (ft)	2
S5	08 Apr 2021	High Tide (ft)	4.93
S5	08 Apr 2021	High Tide Time	744
S5	08 Apr 2021	Low Tide (ft)	-0.41
S5	08 Apr 2021	Low Tide Time	1423
S5	08 Apr 2021	Comments	Resample; Water turbid; Seagrass; Kelp; Trash-2, Sewage-like odor
S5	10 Apr 2021	Arrive Time	630
S5	10 Apr 2021	Weather	Party Cloudy
S5	10 Apr 2021	Wind Speed (kts)	0
S5	10 Apr 2021	Wind Dir	
S5	10 Apr 2021	Animal Life	20 Terns
S5	10 Apr 2021	Floatables	Foam; Film
S5	10 Apr 2021	Water Color	Brown
S5	10 Apr 2021	Current Direction	S
S5	10 Apr 2021	Water Temp (C)	15.1
S5	10 Apr 2021	Wave Height Low (ft)	2
S5	10 Apr 2021	High Tide (ft)	4.79
S5	10 Apr 2021	High Tide Time	900
S5	10 Apr 2021	Low Tide (ft)	0.43
S5	10 Apr 2021	Low Tide Time	307
S5	10 Apr 2021	Comments	Resample; Kelp; Seagrass; Water turbid; Trash-1; Sewage-like odor
S5	12 Apr 2021	Arrive Time	815
S5	12 Apr 2021	Weather	Cloudy
S5	12 Apr 2021	Wind Speed (kts)	6.9
S5	12 Apr 2021	Wind Dir	S
S5	12 Apr 2021	Animal Life	5 Godwits; 14 Pelicans; 9 Plovers; 12 Seagulls; 30 Terns
S5	12 Apr 2021	Floatables	Foam; Film
S5	12 Apr 2021	Water Color	Green
S5	12 Apr 2021	Current Direction	N

Station	Date	Parameter	Value
S5	12 Apr 2021	Water Temp (C)	16.6
S5	12 Apr 2021	Wave Height Low (ft)	2
S5	12 Apr 2021	High Tide (ft)	4.29
S5	12 Apr 2021	High Tide Time	1007
S5	12 Apr 2021	Low Tide (ft)	0.02
S5	12 Apr 2021	Low Tide Time	410
S5	12 Apr 2021	Comments	Resample; Kelp; Seagrass; Debris; Water turbid; Trash-1; Sewage-like odor
S5	13 Apr 2021	Arrive Time	802
S5	13 Apr 2021	Weather	Cloudy
S5	13 Apr 2021	Wind Speed (kts)	6.4
S5	13 Apr 2021	Wind Dir	W
S5	13 Apr 2021	Animal Life	9 Pelicans; 40 Seagulls; 9 Terns; 4 Godwits; 30 Plovers
S5	13 Apr 2021	Floatables	Foam; Film
S5	13 Apr 2021	Water Color	Brown
S5	13 Apr 2021	Current Direction	S
S5	13 Apr 2021	Water Temp (C)	17.5
S5	13 Apr 2021	Wave Height Low (ft)	1
S5	13 Apr 2021	High Tide (ft)	3.96
S5	13 Apr 2021	High Tide Time	1042
S5	13 Apr 2021	Low Tide (ft)	-0.05
S5	13 Apr 2021	Low Tide Time	442
S5	13 Apr 2021	Comments	Seagrass, Debris; Water turbid; Trash-1; Sewage-like odor
S5	15 Apr 2021	Arrive Time	752
S5	15 Apr 2021	Weather	Sunny
S5	15 Apr 2021	Wind Speed (kts)	5.6
S5	15 Apr 2021	Wind Dir	E
S5	15 Apr 2021	Animal Life	30 Plovers; 45 Seagulls; 100 Terns; 5 Pelicans
S5	15 Apr 2021	Floatables	Foam; Film; Sewage Odor; Dead Animals
S5	15 Apr 2021	Water Color	Brown
S5	15 Apr 2021	Current Direction	S
S5	15 Apr 2021	Water Temp (C)	14.8
S5	15 Apr 2021	Wave Height Low (ft)	3
S5	15 Apr 2021	High Tide (ft)	3.2
S5	15 Apr 2021	High Tide Time	1201
S5	15 Apr 2021	Low Tide (ft)	0.1
S5	15 Apr 2021	Low Tide Time	552
S5	15 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-1
S5	17 Apr 2021	Arrive Time	920
S5	17 Apr 2021	Weather	Sunny
S5	17 Apr 2021	Wind Speed (kts)	3.6
S5	17 Apr 2021	Wind Dir	W
S5	17 Apr 2021	Animal Life	1 Godwit; 15 Pelicans; 20 Seagulls
S5	17 Apr 2021	Floatables	Foam; Film; Dead Animals
S5	17 Apr 2021	Water Color	Brown
S5	17 Apr 2021	Current Direction	S
S5	17 Apr 2021	Water Temp (C)	18.7
S5	17 Apr 2021	Wave Height Low (ft)	2
S5	17 Apr 2021	High Tide (ft)	2.58
S5	17 Apr 2021	High Tide Time	1431
S5	17 Apr 2021	Low Tide (ft)	0.51
S5	17 Apr 2021	Low Tide Time	733
S5	17 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Debris; Trash-1; 3 Persons
S5	19 Apr 2021	Arrive Time	840
S5	19 Apr 2021	Weather	Sunny
S5	19 Apr 2021	Wind Speed (kts)	4

Station	Date	Parameter	Value
S5	19 Apr 2021	Wind Dir	E
S5	19 Apr 2021	Animal Life	21 Pelicans; 3 Godwits; 29 Seagulls; 17 Terns
S5	19 Apr 2021	Floatables	Foam; Film; Sewage-like odor
S5	19 Apr 2021	Water Color	Green
S5	19 Apr 2021	Current Direction	S
S5	19 Apr 2021	Water Temp (C)	17.9
S5	19 Apr 2021	Wave Height Low (ft)	2
S5	19 Apr 2021	High Tide (ft)	4.09
S5	19 Apr 2021	High Tide Time	119
S5	19 Apr 2021	Low Tide (ft)	0.57
S5	19 Apr 2021	Low Tide Time	1019
S5	19 Apr 2021	Comments	Resample; 1 Person; Water turbid; Trash-1; Kelp; Seagrass; Debris; Sewage-like odor
S5	20 Apr 2021	Arrive Time	936
S5	20 Apr 2021	Weather	Cloudy
S5	20 Apr 2021	Wind Speed (kts)	7.1
S5	20 Apr 2021	Wind Dir	W
S5	20 Apr 2021	Animal Life	15 Terns; 20 Seagulls; 26 Pelicans
S5	20 Apr 2021	Floatables	Foam; Sewage-like odor
S5	20 Apr 2021	Water Color	Green
S5	20 Apr 2021	Current Direction	N
S5	20 Apr 2021	Water Temp (C)	14
S5	20 Apr 2021	Wave Height Low (ft)	2
S5	20 Apr 2021	High Tide (ft)	3.96
S5	20 Apr 2021	High Tide Time	315
S5	20 Apr 2021	Low Tide (ft)	0.33
S5	20 Apr 2021	Low Tide Time	1128
S5	20 Apr 2021	Comments	Kelp; Debris; Seagrass; Water clear; 4 Joggers
S5	22 Apr 2021	Arrive Time	855
S5	22 Apr 2021	Weather	Cloudy
S5	22 Apr 2021	Wind Speed (kts)	7.5
S5	22 Apr 2021	Wind Dir	W
S5	22 Apr 2021	Animal Life	100 Terns; 1 Pelican; 40 Seagulls; 50 Plovers; 30 Flies
S5	22 Apr 2021	Floatables	Foam; Film; Dead animals
S5	22 Apr 2021	Water Color	Brown
S5	22 Apr 2021	Current Direction	S
S5	22 Apr 2021	Water Temp (C)	13
S5	22 Apr 2021	Wave Height Low (ft)	2
S5	22 Apr 2021	High Tide (ft)	4.45
S5	22 Apr 2021	High Tide Time	558
S5	22 Apr 2021	Low Tide (ft)	-0.18
S5	22 Apr 2021	Low Tide Time	1256
S5	22 Apr 2021	Comments	Resample; Water turbid; Trash-1; Kelp; Seagrass; Algae; Debris
S5	27 Apr 2021	Arrive Time	949
S5	27 Apr 2021	Weather	Partly Cloudy
S5	27 Apr 2021	Wind Speed (kts)	3.8
S5	27 Apr 2021	Wind Dir	W
S5	27 Apr 2021	Animal Life	1 Tern
S5	27 Apr 2021	Floatables	Foam; Film; Dead Animals
S5	27 Apr 2021	Water Color	Green
S5	27 Apr 2021	Current Direction	N
S5	27 Apr 2021	Water Temp (C)	15.6
S5	27 Apr 2021	Wave Height Low (ft)	2
S5	27 Apr 2021	High Tide (ft)	4.57
S5	27 Apr 2021	High Tide Time	1010
S5	27 Apr 2021	Low Tide (ft)	-1.11
S5	27 Apr 2021	Low Tide Time	405

Station	Date	Parameter	Value
S5	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Debris; 1 Jogger
S6	01 Apr 2021	Arrive Time	750
S6	01 Apr 2021	Weather	Sunny
S6	01 Apr 2021	Wind Speed (kts)	0
S6	01 Apr 2021	Wind Dir	
S6	01 Apr 2021	Animal Life	1 Seagull; 1 Godwit
S6	01 Apr 2021	Floatables	Foam; Film
S6	01 Apr 2021	Water Color	Brown
S6	01 Apr 2021	Current Direction	N
S6	01 Apr 2021	Water Temp (C)	12
S6	01 Apr 2021	Wave Height Low (ft)	3
S6	01 Apr 2021	High Tide (ft)	3.38
S6	01 Apr 2021	High Tide Time	1301
S6	01 Apr 2021	Low Tide (ft)	-0.43
S6	01 Apr 2021	Low Tide Time	652
S6	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Clear; 3 Surfers; 7 Persons; Sewage-like odor
S6	02 Apr 2021	Arrive Time	1155
S6	02 Apr 2021	Weather	Sunny
S6	02 Apr 2021	Wind Speed (kts)	7.9
S6	02 Apr 2021	Wind Dir	SW
S6	02 Apr 2021	Animal Life	200 Flies; 1 Godwit
S6	02 Apr 2021	Floatables	Foam; Film
S6	02 Apr 2021	Water Color	Green
S6	02 Apr 2021	Current Direction	N
S6	02 Apr 2021	Water Temp (C)	17.9
S6	02 Apr 2021	Wave Height Low (ft)	2
S6	02 Apr 2021	High Tide (ft)	2.89
S6	02 Apr 2021	High Tide Time	1434
S6	02 Apr 2021	Low Tide (ft)	-0.19
S6	02 Apr 2021	Low Tide Time	804
S6	02 Apr 2021	Comments	Resample; Seagrass; Kelp; Water turbid; Sewage-like odor; 2 Persons
S6	04 Apr 2021	Arrive Time	1115
S6	04 Apr 2021	Weather	Sunny
S6	04 Apr 2021	Wind Speed (kts)	4.8
S6	04 Apr 2021	Wind Dir	NW
S6	04 Apr 2021	Animal Life	1 Godwit; 1 Dog; 6 Walkers
S6	04 Apr 2021	Floatables	Foam; Film
S6	04 Apr 2021	Water Color	Gray
S6	04 Apr 2021	Current Direction	S
S6	04 Apr 2021	Water Temp (C)	17
S6	04 Apr 2021	Wave Height Low (ft)	3
S6	04 Apr 2021	High Tide (ft)	4.6
S6	04 Apr 2021	High Tide Time	257
S6	04 Apr 2021	Low Tide (ft)	-0.13
S6	04 Apr 2021	Low Tide Time	1108
S6	04 Apr 2021	Comments	Resample; Kelp; Seagrass; Water clear; 5 Persons
S6	06 Apr 2021	Arrive Time	1010
S6	06 Apr 2021	Weather	Sunny
S6	06 Apr 2021	Wind Speed (kts)	4.6
S6	06 Apr 2021	Wind Dir	SW
S6	06 Apr 2021	Animal Life	1 Godwit
S6	06 Apr 2021	Floatables	Foam; Film
S6	06 Apr 2021	Water Color	Green
S6	06 Apr 2021	Current Direction	North
S6	06 Apr 2021	Water Temp (C)	15.2

Station	Date	Parameter	Value
S6	06 Apr 2021	Wave Height Low (ft)	2
S6	06 Apr 2021	High Tide (ft)	4.64
S6	06 Apr 2021	High Tide Time	557
S6	06 Apr 2021	Low Tide (ft)	-0.47
S6	06 Apr 2021	Low Tide Time	1311
S6	06 Apr 2021	Comments	Water clear; Kelp; Seagrass; 2 Persons; Trash-1
S6	13 Apr 2021	Arrive Time	824
S6	13 Apr 2021	Weather	Cloudy
S6	13 Apr 2021	Wind Speed (kts)	6.8
S6	13 Apr 2021	Wind Dir	W
S6	13 Apr 2021	Animal Life	1 Godwit, 50 Flies; 1 Dog
S6	13 Apr 2021	Floatables	Foam; Film
S6	13 Apr 2021	Water Color	Brown
S6	13 Apr 2021	Current Direction	S
S6	13 Apr 2021	Water Temp (C)	17.1
S6	13 Apr 2021	Wave Height Low (ft)	2
S6	13 Apr 2021	High Tide (ft)	3.96
S6	13 Apr 2021	High Tide Time	1042
S6	13 Apr 2021	Low Tide (ft)	-0.05
S6	13 Apr 2021	Low Tide Time	442
S6	13 Apr 2021	Comments	2 Persons; Kelp; Seagrass; Trash-2, Debris; Water turbid
S6	15 Apr 2021	Arrive Time	816
S6	15 Apr 2021	Weather	Sunny
S6	15 Apr 2021	Wind Speed (kts)	6.6
S6	15 Apr 2021	Wind Dir	E
S6	15 Apr 2021	Animal Life	1 Fish
S6	15 Apr 2021	Floatables	Foam; Film
S6	15 Apr 2021	Water Color	Brown
S6	15 Apr 2021	Current Direction	S
S6	15 Apr 2021	Water Temp (C)	15.8
S6	15 Apr 2021	Wave Height Low (ft)	3
S6	15 Apr 2021	High Tide (ft)	3.2
S6	15 Apr 2021	High Tide Time	1201
S6	15 Apr 2021	Low Tide (ft)	0.1
S6	15 Apr 2021	Low Tide Time	552
S6	15 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-1
S6	17 Apr 2021	Arrive Time	948
S6	17 Apr 2021	Weather	Sunny
S6	17 Apr 2021	Wind Speed (kts)	5
S6	17 Apr 2021	Wind Dir	W
S6	17 Apr 2021	Animal Life	1 Godwit
S6	17 Apr 2021	Floatables	Foam; Film
S6	17 Apr 2021	Water Color	Green
S6	17 Apr 2021	Current Direction	S
S6	17 Apr 2021	Water Temp (C)	15.4
S6	17 Apr 2021	Wave Height Low (ft)	3
S6	17 Apr 2021	High Tide (ft)	2.58
S6	17 Apr 2021	High Tide Time	1431
S6	17 Apr 2021	Low Tide (ft)	0.51
S6	17 Apr 2021	Low Tide Time	733
S6	17 Apr 2021	Comments	Resample; Water clear; Kelp; Seagrass; Trash-1; 33 Persons; 1 Jogger; 3 Surfers
S6	20 Apr 2021	Arrive Time	956
S6	20 Apr 2021	Weather	Cloudy
S6	20 Apr 2021	Wind Speed (kts)	7.5
S6	20 Apr 2021	Wind Dir	S
S6	20 Apr 2021	Animal Life	None

Station	Date	Parameter	Value
S6	20 Apr 2021	Floatables	None
S6	20 Apr 2021	Water Color	Green
S6	20 Apr 2021	Current Direction	N
S6	20 Apr 2021	Water Temp (C)	13
S6	20 Apr 2021	Wave Height Low (ft)	2
S6	20 Apr 2021	High Tide (ft)	3.96
S6	20 Apr 2021	High Tide Time	315
S6	20 Apr 2021	Low Tide (ft)	0.33
S6	20 Apr 2021	Low Tide Time	1128
S6	20 Apr 2021	Comments	Kelp; Seagrass; Water clear
S6	27 Apr 2021	Arrive Time	1010
S6	27 Apr 2021	Weather	Cloudy
S6	27 Apr 2021	Wind Speed (kts)	4.8
S6	27 Apr 2021	Wind Dir	W
S6	27 Apr 2021	Animal Life	None
S6	27 Apr 2021	Floatables	Foam; Film
S6	27 Apr 2021	Water Color	Green
S6	27 Apr 2021	Current Direction	N
S6	27 Apr 2021	Water Temp (C)	17.4
S6	27 Apr 2021	Wave Height Low (ft)	3
S6	27 Apr 2021	High Tide (ft)	4.57
S6	27 Apr 2021	High Tide Time	1010
S6	27 Apr 2021	Low Tide (ft)	-1.11
S6	27 Apr 2021	Low Tide Time	405
S6	27 Apr 2021	Comments	Water clear; Kelp; Seagrass; Algae; Debris; 1 Person
S8	06 Apr 2021	Arrive Time	1055
S8	06 Apr 2021	Weather	Sunny
S8	06 Apr 2021	Wind Speed (kts)	6.2
S8	06 Apr 2021	Wind Dir	W
S8	06 Apr 2021	Animal Life	3 Godwits
S8	06 Apr 2021	Floatables	Foam
S8	06 Apr 2021	Water Color	Green
S8	06 Apr 2021	Current Direction	North
S8	06 Apr 2021	Water Temp (C)	17.6
S8	06 Apr 2021	Wave Height Low (ft)	1
S8	06 Apr 2021	High Tide (ft)	4.64
S8	06 Apr 2021	High Tide Time	557
S8	06 Apr 2021	Low Tide (ft)	-0.47
S8	06 Apr 2021	Low Tide Time	1311
S8	06 Apr 2021	Comments	Water clear; Kelp; Seagrass; Debris; Trash-2; 19 Persons; 3 Swimmers; 3 Surfers
S8	13 Apr 2021	Arrive Time	1033
S8	13 Apr 2021	Weather	Cloudy
S8	13 Apr 2021	Wind Speed (kts)	5.2
S8	13 Apr 2021	Wind Dir	W
S8	13 Apr 2021	Animal Life	2 Plovers; 20 Flies
S8	13 Apr 2021	Floatables	Foam; Film
S8	13 Apr 2021	Water Color	Brown
S8	13 Apr 2021	Current Direction	N
S8	13 Apr 2021	Water Temp (C)	17.4
S8	13 Apr 2021	Wave Height Low (ft)	2
S8	13 Apr 2021	High Tide (ft)	3.96
S8	13 Apr 2021	High Tide Time	1042
S8	13 Apr 2021	Low Tide (ft)	-0.05
S8	13 Apr 2021	Low Tide Time	442
S8	13 Apr 2021	Comments	Kelp; Seagrass; Algae; Water turbid; Trash-1; 2 Persons; 2 Swimmers

Station	Date	Parameter	Value
S8	20 Apr 2021	Arrive Time	825
S8	20 Apr 2021	Weather	Cloudy
S8	20 Apr 2021	Wind Speed (kts)	6.2
S8	20 Apr 2021	Wind Dir	S
S8	20 Apr 2021	Animal Life	1 Plover; 6 Godwits; 1 Seagull
S8	20 Apr 2021	Floatables	None
S8	20 Apr 2021	Water Color	Gray
S8	20 Apr 2021	Current Direction	N
S8	20 Apr 2021	Water Temp (C)	14
S8	20 Apr 2021	Wave Height Low (ft)	2
S8	20 Apr 2021	High Tide (ft)	3.96
S8	20 Apr 2021	High Tide Time	315
S8	20 Apr 2021	Low Tide (ft)	0.33
S8	20 Apr 2021	Low Tide Time	1128
S8	20 Apr 2021	Comments	Kelp; Seagrass; Water clear; 1 Jogger
S8	27 Apr 2021	Arrive Time	852
S8	27 Apr 2021	Weather	Cloudy
S8	27 Apr 2021	Wind Speed (kts)	1.9
S8	27 Apr 2021	Wind Dir	W
S8	27 Apr 2021	Animal Life	None
S8	27 Apr 2021	Floatables	Foam
S8	27 Apr 2021	Water Color	Green
S8	27 Apr 2021	Current Direction	S
S8	27 Apr 2021	Water Temp (C)	15.4
S8	27 Apr 2021	Wave Height Low (ft)	1
S8	27 Apr 2021	High Tide (ft)	4.57
S8	27 Apr 2021	High Tide Time	1010
S8	27 Apr 2021	Low Tide (ft)	-1.11
S8	27 Apr 2021	Low Tide Time	405
S8	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Algae; 1 Person
S9	06 Apr 2021	Arrive Time	1125
S9	06 Apr 2021	Weather	Sunny
S9	06 Apr 2021	Wind Speed (kts)	3.1
S9	06 Apr 2021	Wind Dir	W
S9	06 Apr 2021	Animal Life	5 Seagulls
S9	06 Apr 2021	Floatables	None
S9	06 Apr 2021	Water Color	Green
S9	06 Apr 2021	Current Direction	S
S9	06 Apr 2021	Water Temp (C)	16.8
S9	06 Apr 2021	Wave Height Low (ft)	1
S9	06 Apr 2021	High Tide (ft)	4.64
S9	06 Apr 2021	High Tide Time	557
S9	06 Apr 2021	Low Tide (ft)	-0.47
S9	06 Apr 2021	Low Tide Time	1311
S9	06 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 14 Persons; 3 Surfers
S9	13 Apr 2021	Arrive Time	1110
S9	13 Apr 2021	Weather	Cloudy
S9	13 Apr 2021	Wind Speed (kts)	6.2
S9	13 Apr 2021	Wind Dir	W
S9	13 Apr 2021	Animal Life	2 Godwits; 10 Flies
S9	13 Apr 2021	Floatables	Foam
S9	13 Apr 2021	Water Color	Green
S9	13 Apr 2021	Current Direction	S
S9	13 Apr 2021	Water Temp (C)	18.1
S9	13 Apr 2021	Wave Height Low (ft)	2
S9	13 Apr 2021	High Tide (ft)	3.96
S9	13 Apr 2021	High Tide Time	1042
S9	13 Apr 2021	Low Tide (ft)	-0.05

Station	Date	Parameter	Value
S9	13 Apr 2021	Low Tide Time	442
S9	13 Apr 2021	Comments	Kelp; Seagrass; Water clear; Trash-1; 1 Boat; 5 Persons
S9	20 Apr 2021	Arrive Time	758
S9	20 Apr 2021	Weather	Cloudy
S9	20 Apr 2021	Wind Speed (kts)	5.2
S9	20 Apr 2021	Wind Dir	SW
S9	20 Apr 2021	Animal Life	4 Godwit
S9	20 Apr 2021	Floatables	None
S9	20 Apr 2021	Water Color	Gray
S9	20 Apr 2021	Current Direction	S
S9	20 Apr 2021	Water Temp (C)	11
S9	20 Apr 2021	Wave Height Low (ft)	3
S9	20 Apr 2021	High Tide (ft)	3.96
S9	20 Apr 2021	High Tide Time	315
S9	20 Apr 2021	Low Tide (ft)	0.33
S9	20 Apr 2021	Low Tide Time	1128
S9	20 Apr 2021	Comments	Kelp; Seagrass; Water clear; 6 Swimmers; 2 People; 4 Joggers; 2 Jetskis; 3 Boats
S9	27 Apr 2021	Arrive Time	826
S9	27 Apr 2021	Weather	Cloudy
S9	27 Apr 2021	Wind Speed (kts)	1.1
S9	27 Apr 2021	Wind Dir	SW
S9	27 Apr 2021	Animal Life	None
S9	27 Apr 2021	Floatables	Foam
S9	27 Apr 2021	Water Color	Green
S9	27 Apr 2021	Current Direction	S
S9	27 Apr 2021	Water Temp (C)	13.2
S9	27 Apr 2021	Wave Height Low (ft)	1
S9	27 Apr 2021	High Tide (ft)	4.57
S9	27 Apr 2021	High Tide Time	1010
S9	27 Apr 2021	Low Tide (ft)	-1.11
S9	27 Apr 2021	Low Tide Time	405
S9	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Algae; 2 Joggers; 1 Walker
S10	01 Apr 2021	Arrive Time	830
S10	01 Apr 2021	Weather	Sunny
S10	01 Apr 2021	Wind Speed (kts)	7.9
S10	01 Apr 2021	Wind Dir	E
S10	01 Apr 2021	Animal Life	1 Godwit; 1 Plover
S10	01 Apr 2021	Floatables	Foam; Film
S10	01 Apr 2021	Water Color	Green
S10	01 Apr 2021	Current Direction	N
S10	01 Apr 2021	Water Temp (C)	17
S10	01 Apr 2021	Wave Height Low (ft)	2
S10	01 Apr 2021	High Tide (ft)	3.38
S10	01 Apr 2021	High Tide Time	1301
S10	01 Apr 2021	Low Tide (ft)	-0.43
S10	01 Apr 2021	Low Tide Time	652
S10	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Debris; Clear
S10	02 Apr 2021	Arrive Time	1240
S10	02 Apr 2021	Weather	Sunny
S10	02 Apr 2021	Wind Speed (kts)	10.1
S10	02 Apr 2021	Wind Dir	SW
S10	02 Apr 2021	Animal Life	None
S10	02 Apr 2021	Floatables	Foam; Film
S10	02 Apr 2021	Water Color	Green
S10	02 Apr 2021	Current Direction	N
S10	02 Apr 2021	Water Temp (C)	16.8

Station	Date	Parameter	Value
S10	02 Apr 2021	Wave Height Low (ft)	3
S10	02 Apr 2021	High Tide (ft)	2.89
S10	02 Apr 2021	High Tide Time	1434
S10	02 Apr 2021	Low Tide (ft)	-0.19
S10	02 Apr 2021	Low Tide Time	804
S10	02 Apr 2021	Comments	Resample; Kelp; Seagrass; Algae; Debris; Water turbid; Trash-2
S10	06 Apr 2021	Arrive Time	830
S10	06 Apr 2021	Weather	Sunny
S10	06 Apr 2021	Wind Speed (kts)	3.1
S10	06 Apr 2021	Wind Dir	W
S10	06 Apr 2021	Animal Life	1 Plover
S10	06 Apr 2021	Floatables	Dead Animals; Foam; Film
S10	06 Apr 2021	Water Color	Green
S10	06 Apr 2021	Current Direction	S
S10	06 Apr 2021	Water Temp (C)	13.8
S10	06 Apr 2021	Wave Height Low (ft)	3
S10	06 Apr 2021	High Tide (ft)	4.64
S10	06 Apr 2021	High Tide Time	557
S10	06 Apr 2021	Low Tide (ft)	-0.47
S10	06 Apr 2021	Low Tide Time	1311
S10	06 Apr 2021	Comments	Water Turbid; Kelp; Seagrass; Trash-3
S10	08 Apr 2021	Arrive Time	940
S10	08 Apr 2021	Weather	Partly Cloudy
S10	08 Apr 2021	Wind Speed (kts)	2.9
S10	08 Apr 2021	Wind Dir	W
S10	08 Apr 2021	Animal Life	1 Godwit; 20 Flies; 1 Pelican
S10	08 Apr 2021	Floatables	Dead Animals; Foam; Film
S10	08 Apr 2021	Water Color	Green
S10	08 Apr 2021	Current Direction	S
S10	08 Apr 2021	Water Temp (C)	15.9
S10	08 Apr 2021	Wave Height Low (ft)	2
S10	08 Apr 2021	High Tide (ft)	4.93
S10	08 Apr 2021	High Tide Time	744
S10	08 Apr 2021	Low Tide (ft)	-0.41
S10	08 Apr 2021	Low Tide Time	1423
S10	08 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-2
S10	13 Apr 2021	Arrive Time	950
S10	13 Apr 2021	Weather	Cloudy
S10	13 Apr 2021	Wind Speed (kts)	6
S10	13 Apr 2021	Wind Dir	W
S10	13 Apr 2021	Animal Life	10 Flies; 3 Godwits
S10	13 Apr 2021	Floatables	Dead Animals
S10	13 Apr 2021	Water Color	Green
S10	13 Apr 2021	Current Direction	S
S10	13 Apr 2021	Water Temp (C)	16.4
S10	13 Apr 2021	Wave Height Low (ft)	3
S10	13 Apr 2021	High Tide (ft)	3.96
S10	13 Apr 2021	High Tide Time	1042
S10	13 Apr 2021	Low Tide (ft)	-0.05
S10	13 Apr 2021	Low Tide Time	442
S10	13 Apr 2021	Comments	Kelp; Seagrass; Trash-3; Water turbid; Debris
S10	15 Apr 2021	Arrive Time	904
S10	15 Apr 2021	Weather	Sunny
S10	15 Apr 2021	Wind Speed (kts)	1.3
S10	15 Apr 2021	Wind Dir	W
S10	15 Apr 2021	Animal Life	2 Plovers

Station	Date	Parameter	Value
S10	15 Apr 2021	Floatables	Foam; Film
S10	15 Apr 2021	Water Color	Green
S10	15 Apr 2021	Current Direction	N
S10	15 Apr 2021	Water Temp (C)	17.3
S10	15 Apr 2021	Wave Height Low (ft)	4
S10	15 Apr 2021	High Tide (ft)	3.2
S10	15 Apr 2021	High Tide Time	1201
S10	15 Apr 2021	Low Tide (ft)	0.1
S10	15 Apr 2021	Low Tide Time	552
S10	15 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-1
S10	20 Apr 2021	Arrive Time	1038
S10	20 Apr 2021	Weather	Partly Cloudy
S10	20 Apr 2021	Wind Speed (kts)	7.1
S10	20 Apr 2021	Wind Dir	SW
S10	20 Apr 2021	Animal Life	2 Godwit; 1 Plover
S10	20 Apr 2021	Floatables	Foam
S10	20 Apr 2021	Water Color	Green
S10	20 Apr 2021	Current Direction	N
S10	20 Apr 2021	Water Temp (C)	13
S10	20 Apr 2021	Wave Height Low (ft)	2
S10	20 Apr 2021	High Tide (ft)	3.96
S10	20 Apr 2021	High Tide Time	315
S10	20 Apr 2021	Low Tide (ft)	0.33
S10	20 Apr 2021	Low Tide Time	1128
S10	20 Apr 2021	Comments	Water clear; Kelp; Seagrass
S10	27 Apr 2021	Arrive Time	1135
S10	27 Apr 2021	Weather	Sunny
S10	27 Apr 2021	Wind Speed (kts)	8.1
S10	27 Apr 2021	Wind Dir	W
S10	27 Apr 2021	Animal Life	1 Godwit
S10	27 Apr 2021	Floatables	Foam; Film; Dead Animals
S10	27 Apr 2021	Water Color	Green
S10	27 Apr 2021	Current Direction	N
S10	27 Apr 2021	Water Temp (C)	14.8
S10	27 Apr 2021	Wave Height Low (ft)	2
S10	27 Apr 2021	High Tide (ft)	4.57
S10	27 Apr 2021	High Tide Time	1010
S10	27 Apr 2021	Low Tide (ft)	-1.11
S10	27 Apr 2021	Low Tide Time	405
S10	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Trash-2
S11	01 Apr 2021	Arrive Time	753
S11	01 Apr 2021	Weather	Sunny
S11	01 Apr 2021	Wind Speed (kts)	5
S11	01 Apr 2021	Wind Dir	E
S11	01 Apr 2021	Animal Life	6 Plovers
S11	01 Apr 2021	Floatables	Foam; Film
S11	01 Apr 2021	Water Color	Brown
S11	01 Apr 2021	Current Direction	N
S11	01 Apr 2021	Water Temp (C)	15
S11	01 Apr 2021	Wave Height Low (ft)	3
S11	01 Apr 2021	High Tide (ft)	3.38
S11	01 Apr 2021	High Tide Time	1301
S11	01 Apr 2021	Low Tide (ft)	-0.43
S11	01 Apr 2021	Low Tide Time	652
S11	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Turbid; 1 Person; Trash-1; Sewage-like odor
S11	02 Apr 2021	Arrive Time	1145

Station	Date	Parameter	Value
S11	02 Apr 2021	Weather	Sunny
S11	02 Apr 2021	Wind Speed (kts)	7.5
S11	02 Apr 2021	Wind Dir	W
S11	02 Apr 2021	Animal Life	1 Seagull; 2 Terns; 1 Godwit
S11	02 Apr 2021	Floatables	Foam; Film
S11	02 Apr 2021	Water Color	Green
S11	02 Apr 2021	Current Direction	N
S11	02 Apr 2021	Water Temp (C)	17.5
S11	02 Apr 2021	Wave Height Low (ft)	3
S11	02 Apr 2021	High Tide (ft)	2.89
S11	02 Apr 2021	High Tide Time	1434
S11	02 Apr 2021	Low Tide (ft)	-0.19
S11	02 Apr 2021	Low Tide Time	804
S11	02 Apr 2021	Comments	Resample; Kelp; Seagrass; Sewage-like odor; Water turbid; 4 Persons
S11	04 Apr 2021	Arrive Time	1110
S11	04 Apr 2021	Weather	Sunny
S11	04 Apr 2021	Wind Speed (kts)	5
S11	04 Apr 2021	Wind Dir	NW
S11	04 Apr 2021	Animal Life	2 Dogs; 1 Godwit; 20 Terns; 1 Pelican
S11	04 Apr 2021	Floatables	Foam; Film
S11	04 Apr 2021	Water Color	Brown
S11	04 Apr 2021	Current Direction	S
S11	04 Apr 2021	Water Temp (C)	17.8
S11	04 Apr 2021	Wave Height Low (ft)	5
S11	04 Apr 2021	High Tide (ft)	4.6
S11	04 Apr 2021	High Tide Time	257
S11	04 Apr 2021	Low Tide (ft)	-0.13
S11	04 Apr 2021	Low Tide Time	1108
S11	04 Apr 2021	Comments	Resample; Kelp; Seagrass; Water turbid; Sewage-like; 5 Persons
S11	06 Apr 2021	Arrive Time	955
S11	06 Apr 2021	Weather	Partly Cloudy
S11	06 Apr 2021	Wind Speed (kts)	3.6
S11	06 Apr 2021	Wind Dir	SW
S11	06 Apr 2021	Animal Life	1 Godwit; 8 Plovers
S11	06 Apr 2021	Floatables	Foam; Film
S11	06 Apr 2021	Water Color	Green
S11	06 Apr 2021	Current Direction	S
S11	06 Apr 2021	Water Temp (C)	15.7
S11	06 Apr 2021	Wave Height Low (ft)	2
S11	06 Apr 2021	High Tide (ft)	4.64
S11	06 Apr 2021	High Tide Time	557
S11	06 Apr 2021	Low Tide (ft)	-0.47
S11	06 Apr 2021	Low Tide Time	1311
S11	06 Apr 2021	Comments	Water Turbid; Kelp; Seagrass; Debris; Trash-1; 1 Person
S11	13 Apr 2021	Arrive Time	816
S11	13 Apr 2021	Weather	Cloudy
S11	13 Apr 2021	Wind Speed (kts)	7.3
S11	13 Apr 2021	Wind Dir	S
S11	13 Apr 2021	Animal Life	3 Plovers; 2 Godwits
S11	13 Apr 2021	Floatables	Foam; Film
S11	13 Apr 2021	Water Color	Brown
S11	13 Apr 2021	Current Direction	S
S11	13 Apr 2021	Water Temp (C)	17.4
S11	13 Apr 2021	Wave Height Low (ft)	1
S11	13 Apr 2021	High Tide (ft)	3.96
S11	13 Apr 2021	High Tide Time	1042

Station	Date	Parameter	Value
S11	13 Apr 2021	Low Tide (ft)	-0.05
S11	13 Apr 2021	Low Tide Time	442
S11	13 Apr 2021	Comments	Seagrass; Debris; Trash-1; Water turbid; 2 Persons
S11	15 Apr 2021	Arrive Time	807
S11	15 Apr 2021	Weather	Sunny
S11	15 Apr 2021	Wind Speed (kts)	6.6
S11	15 Apr 2021	Wind Dir	E
S11	15 Apr 2021	Animal Life	1 Godwit; 1 Seagull
S11	15 Apr 2021	Floatables	Foam; Film
S11	15 Apr 2021	Water Color	Brown
S11	15 Apr 2021	Current Direction	S
S11	15 Apr 2021	Water Temp (C)	15.9
S11	15 Apr 2021	Wave Height Low (ft)	4
S11	15 Apr 2021	High Tide (ft)	3.2
S11	15 Apr 2021	High Tide Time	1201
S11	15 Apr 2021	Low Tide (ft)	0.1
S11	15 Apr 2021	Low Tide Time	552
S11	15 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Trash-1
S11	17 Apr 2021	Arrive Time	939
S11	17 Apr 2021	Weather	Sunny
S11	17 Apr 2021	Wind Speed (kts)	4
S11	17 Apr 2021	Wind Dir	W
S11	17 Apr 2021	Animal Life	2 Dogs
S11	17 Apr 2021	Floatables	Foam; Dead Animals
S11	17 Apr 2021	Water Color	Green
S11	17 Apr 2021	Current Direction	S
S11	17 Apr 2021	Water Temp (C)	16.4
S11	17 Apr 2021	Wave Height Low (ft)	1
S11	17 Apr 2021	High Tide (ft)	2.58
S11	17 Apr 2021	High Tide Time	1431
S11	17 Apr 2021	Low Tide (ft)	0.51
S11	17 Apr 2021	Low Tide Time	733
S11	17 Apr 2021	Comments	Resample; Water turbid; Kelp; Seagrass; Algae; Trash-1; 3 Persons
S11	20 Apr 2021	Arrive Time	947
S11	20 Apr 2021	Weather	Cloudy
S11	20 Apr 2021	Wind Speed (kts)	7.5
S11	20 Apr 2021	Wind Dir	SW
S11	20 Apr 2021	Animal Life	None
S11	20 Apr 2021	Floatables	Foam; Film
S11	20 Apr 2021	Water Color	Green
S11	20 Apr 2021	Current Direction	N
S11	20 Apr 2021	Water Temp (C)	12
S11	20 Apr 2021	Wave Height Low (ft)	2
S11	20 Apr 2021	High Tide (ft)	3.96
S11	20 Apr 2021	High Tide Time	315
S11	20 Apr 2021	Low Tide (ft)	0.33
S11	20 Apr 2021	Low Tide Time	1128
S11	20 Apr 2021	Comments	Debris; Kelp; Seagrass; Water clear
S11	27 Apr 2021	Arrive Time	1002
S11	27 Apr 2021	Weather	Cloudy
S11	27 Apr 2021	Wind Speed (kts)	5
S11	27 Apr 2021	Wind Dir	W
S11	27 Apr 2021	Animal Life	1 Godwit
S11	27 Apr 2021	Floatables	Foam; Film
S11	27 Apr 2021	Water Color	Green
S11	27 Apr 2021	Current Direction	N

Station	Date	Parameter	Value
S11	27 Apr 2021	Water Temp (C)	16.5
S11	27 Apr 2021	Wave Height Low (ft)	3
S11	27 Apr 2021	High Tide (ft)	4.57
S11	27 Apr 2021	High Tide Time	1010
S11	27 Apr 2021	Low Tide (ft)	-1.11
S11	27 Apr 2021	Low Tide Time	405
S11	27 Apr 2021	Comments	Water clear; Kelp; Seagrass; Algae; 1 Jogger
S12	01 Apr 2021	Arrive Time	710
S12	01 Apr 2021	Weather	Sunny
S12	01 Apr 2021	Wind Speed (kts)	0.5
S12	01 Apr 2021	Wind Dir	E
S12	01 Apr 2021	Animal Life	5 Godwits; 1 Dog
S12	01 Apr 2021	Floatables	Foam; Film
S12	01 Apr 2021	Water Color	Green
S12	01 Apr 2021	Current Direction	S
S12	01 Apr 2021	Water Temp (C)	12
S12	01 Apr 2021	Wave Height Low (ft)	2
S12	01 Apr 2021	High Tide (ft)	3.38
S12	01 Apr 2021	High Tide Time	1301
S12	01 Apr 2021	Low Tide (ft)	-0.43
S12	01 Apr 2021	Low Tide Time	652
S12	01 Apr 2021	Comments	Resample; Kelp; Seagrass; Clear; 9 People; Trash-1; Sewage-like odor
S12	06 Apr 2021	Arrive Time	1030
S12	06 Apr 2021	Weather	Sunny
S12	06 Apr 2021	Wind Speed (kts)	4.4
S12	06 Apr 2021	Wind Dir	SW
S12	06 Apr 2021	Animal Life	1 Godwit; 1 Dog
S12	06 Apr 2021	Floatables	Foam
S12	06 Apr 2021	Water Color	Green
S12	06 Apr 2021	Current Direction	N
S12	06 Apr 2021	Water Temp (C)	15.9
S12	06 Apr 2021	Wave Height Low (ft)	2
S12	06 Apr 2021	High Tide (ft)	4.64
S12	06 Apr 2021	High Tide Time	557
S12	06 Apr 2021	Low Tide (ft)	-0.47
S12	06 Apr 2021	Low Tide Time	1311
S12	06 Apr 2021	Comments	Water clear; Kelp; Seagrass; Trash-1; 1 Fisherman; 2 Persons
S12	13 Apr 2021	Arrive Time	845
S12	13 Apr 2021	Weather	Cloudy
S12	13 Apr 2021	Wind Speed (kts)	6.2
S12	13 Apr 2021	Wind Dir	W
S12	13 Apr 2021	Animal Life	2 Godwits; 50 Flies
S12	13 Apr 2021	Floatables	Foam; Film
S12	13 Apr 2021	Water Color	Brown
S12	13 Apr 2021	Current Direction	S
S12	13 Apr 2021	Water Temp (C)	16.5
S12	13 Apr 2021	Wave Height Low (ft)	2
S12	13 Apr 2021	High Tide (ft)	3.96
S12	13 Apr 2021	High Tide Time	1042
S12	13 Apr 2021	Low Tide (ft)	-0.05
S12	13 Apr 2021	Low Tide Time	442
S12	13 Apr 2021	Comments	Seagrass; Debris; Water turbid; Trash-1; 1 Person
S12	20 Apr 2021	Arrive Time	914
S12	20 Apr 2021	Weather	Cloudy
S12	20 Apr 2021	Wind Speed (kts)	6.4

Station	Date	Parameter	Value
S12	20 Apr 2021	Wind Dir	S
S12	20 Apr 2021	Animal Life	1 Fisherman; 1 Godwit
S12	20 Apr 2021	Floatables	None
S12	20 Apr 2021	Water Color	Green
S12	20 Apr 2021	Current Direction	N
S12	20 Apr 2021	Water Temp (C)	14
S12	20 Apr 2021	Wave Height Low (ft)	2
S12	20 Apr 2021	High Tide (ft)	3.96
S12	20 Apr 2021	High Tide Time	315
S12	20 Apr 2021	Low Tide (ft)	0.33
S12	20 Apr 2021	Low Tide Time	1128
S12	20 Apr 2021	Comments	Kelp; Seagrass; Water clear; 2 Joggers
S12	27 Apr 2021	Arrive Time	927
S12	27 Apr 2021	Weather	Partly Cloudy
S12	27 Apr 2021	Wind Speed (kts)	2.5
S12	27 Apr 2021	Wind Dir	W
S12	27 Apr 2021	Animal Life	None
S12	27 Apr 2021	Floatables	Foam
S12	27 Apr 2021	Water Color	Green
S12	27 Apr 2021	Current Direction	N
S12	27 Apr 2021	Water Temp (C)	15.2
S12	27 Apr 2021	Wave Height Low (ft)	2
S12	27 Apr 2021	High Tide (ft)	4.57
S12	27 Apr 2021	High Tide Time	1010
S12	27 Apr 2021	Low Tide (ft)	-1.11
S12	27 Apr 2021	Low Tide Time	405
S12	27 Apr 2021	Comments	Water turbid; Kelp; Seagrass; Algae; Debris; 2 Joggers

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total 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 >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	351	114	25	3	35	3	694
02 Apr 2021	351	114	25	3	35	3	694
03 Apr 2021	351	114	25	3	35	3	694
04 Apr 2021	351	114	25	3	35	3	694
05 Apr 2021	351	114	25	3	35	3	694
06 Apr 2021	498	196	46	4	21	3	671
07 Apr 2021	618	147	51	5	6	3	400
08 Apr 2021	618	147	51	5	6	3	400
09 Apr 2021	618	147	51	5	6	3	400
10 Apr 2021	618	147	51	5	6	3	400
11 Apr 2021	618	147	51	5	6	3	400
12 Apr 2021	618	147	51	5	6	3	400
13 Apr 2021	618	147	51	5	6	3	400
14 Apr 2021	618	147	51	5	6	3	400
15 Apr 2021	417	109	37	4	7	3	286
16 Apr 2021	417	109	37	4	7	3	286
17 Apr 2021	251	42	47	3	9	2	172
18 Apr 2021	251	42	47	3	9	2	172
19 Apr 2021	251	42	47	3	9	2	172
20 Apr 2021	141	23	25	4	10	2	104
21 Apr 2021	141	23	25	4	10	2	104
22 Apr 2021	141	23	25	4	10	2	104
23 Apr 2021	138	42	47	5	15	2	187
24 Apr 2021	138	42	47	5	15	2	187
25 Apr 2021	138	42	47	5	15	2	187
26 Apr 2021	138	42	47	5	15	2	187
27 Apr 2021	88	30	33	4	13	2	75
28 Apr 2021	88	30	33	4	13	2	75
29 Apr 2021	88	30	33	4	13	2	75
30 Apr 2021	88	30	33	4	13	2	75

* Geometric mean calculated using n<5

Table 3.2

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 Apr 2021	93	82	7	2	13	2	152
02 Apr 2021	93	82	7	2	13	2	152
03 Apr 2021	93	82	7	2	13	2	152
04 Apr 2021	93	82	7	2	13	2	152
05 Apr 2021	93	82	7	2	13	2	152
06 Apr 2021	111	114	10	2	9	2	140
07 Apr 2021	136	85	12	2	3	2	84
08 Apr 2021	136	85	12	2	3	2	84
09 Apr 2021	136	85	12	2	3	2	84
10 Apr 2021	136	85	12	2	3	2	84
11 Apr 2021	136	85	12	2	3	2	84
12 Apr 2021	136	85	12	2	3	2	84
13 Apr 2021	136	85	12	2	3	2	84
14 Apr 2021	136	85	12	2	3	2	84
15 Apr 2021	65	54	11	2	3	2	67
16 Apr 2021	65	54	11	2	3	2	67
17 Apr 2021	33	20	17	2	3	2	48
18 Apr 2021	33	20	17	2	3	2	48
19 Apr 2021	33	20	17	2	3	2	48
20 Apr 2021	19	12	11	2	3	2	28
21 Apr 2021	19	12	11	2	3	2	28
22 Apr 2021	19	12	11	2	3	2	28
23 Apr 2021	15	20	17	2	3	2	51
24 Apr 2021	15	20	17	2	3	2	51
25 Apr 2021	15	20	17	2	3	2	51
26 Apr 2021	15	20	17	2	3	2	51
27 Apr 2021	10	13	11	2	3	2	27
28 Apr 2021	10	13	11	2	3	2	27
29 Apr 2021	10	13	11	2	3	2	27
30 Apr 2021	10	13	11	2	3	2	27

* Geometric mean calculated using n<5

Table 3.3

Summary of compliance with the Ocean Plan's 30-day 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 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	21	11	4	2	4	2	51
02 Apr 2021	21	11	4	2	4	2	51
03 Apr 2021	21	11	4	2	4	2	51
04 Apr 2021	21	11	4	2	4	2	51
05 Apr 2021	21	11	4	2	4	2	51
06 Apr 2021	36	17	5	2	3	2	46
07 Apr 2021	48	18	7	2	2	2	42
08 Apr 2021	48	18	7	2	2	2	42
09 Apr 2021	48	18	7	2	2	2	42
10 Apr 2021	48	18	7	2	2	2	42
11 Apr 2021	48	18	7	2	2	2	42
12 Apr 2021	48	18	7	2	2	2	42
13 Apr 2021	48	18	7	2	2	2	42
14 Apr 2021	48	18	7	2	2	2	42
15 Apr 2021	39	20	8	2	2	2	53
16 Apr 2021	39	20	8	2	2	2	53
17 Apr 2021	32	13	12	2	2	2	79
18 Apr 2021	32	13	12	2	2	2	79
19 Apr 2021	32	13	12	2	2	2	79
20 Apr 2021	18	9	8	2	2	2	38
21 Apr 2021	18	9	8	2	2	2	38
22 Apr 2021	18	9	8	2	2	2	38
23 Apr 2021	17	13	12	2	2	2	60
24 Apr 2021	17	13	12	2	2	2	60
25 Apr 2021	17	13	12	2	2	2	60
26 Apr 2021	17	13	12	2	2	2	60
27 Apr 2021	11	9	8	2	2	2	32
28 Apr 2021	11	9	8	2	2	2	32
29 Apr 2021	11	9	8	2	2	2	32
30 Apr 2021	11	9	8	2	2	2	32

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria, which states that total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC						
06 Apr 2021	IC						
15 Apr 2021	IC						
20 Apr 2021	IC						
27 Apr 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.5

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
01 Apr 2021	IC	IC	IC	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	IC
15 Apr 2021	IC						
20 Apr 2021	IC						
27 Apr 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.6

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC	IC	E	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	IC
15 Apr 2021	IC	IC	IC	IC	IC	IC	E
20 Apr 2021	IC						
27 Apr 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.7

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria and the fecal/total coliform ratio (F:T), which states that total coliform density shall not exceed 1,000 CFU/100 mL when F:T > 0.1.

Date	I19	I24	I25	I26	I32	I39	I40
01 Apr 2021	IC	IC	E	IC	IC	IC	E
06 Apr 2021	E	E	IC	IC	IC	IC	E
15 Apr 2021	IC						
20 Apr 2021	IC						
27 Apr 2021	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Table 3.8

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; the fecal:total coliform ratio (F:T) is unitless; 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	F:T	Temp	XMS	DO	Sal	pH
I19	01 Apr 2021	1105	2	400e	84	22e	0.21	13.5	65.36	7.5	33.67	7.9
I19	01 Apr 2021	1105	6	<20	6e	2e	0.30	12.9	63.82	6.4	33.70	7.9
I19	01 Apr 2021	1105	11	20e	2e	<2	0.10	11.9	65.38	5.1	33.71	7.8
I19	06 Apr 2021	1057	2	5800	660	880	0.11	14.2	53.79	7.8	33.42	8.0
I19	06 Apr 2021	1057	6	100e	<2	2e	0.02	12.4	41.52	5.3	33.68	7.9
I19	06 Apr 2021	1057	11	<200	16e	16e	0.08	12.2	5.01	4.9	33.66	7.8
I19	15 Apr 2021	957	2	40e	6e	48	0.15	16.1	51.86	8.2	33.65	8.2
I19	15 Apr 2021	957	6	20e	2e	<2	0.10	13.8	49.23	6.1	33.71	8.0
I19	15 Apr 2021	957	11	<200	<2	2e	0.01	13.2	50.47	5.8	33.70	7.9
I19	20 Apr 2021	1055	2	<2	<2	<2	1.00	15.4	68.79	8.7	33.68	8.2
I19	20 Apr 2021	1055	6	<20	<2	<2	0.10	14.5	59.77	8.2	33.69	8.1
I19	20 Apr 2021	1055	11	<20	<2	2e	0.10	11.3	39.44	4.7	33.64	7.8
I19	27 Apr 2021	1112	2	<20	<2	<2	0.10	14.4	65.51	8.7	33.69	8.2
I19	27 Apr 2021	1112	6	<20	<2	2e	0.10	13.5	58.80	7.9	33.70	8.2
I19	27 Apr 2021	1112	11	4e	<2	2e	0.50	11.2	63.72	4.7	33.66	7.9
I24	01 Apr 2021	1129	2	38e	40	12e	1.05	14.5	76.05	7.5	33.63	7.9
I24	01 Apr 2021	1129	6	20e	16e	2e	0.80	12.8	78.99	6.2	33.72	7.9
I24	01 Apr 2021	1129	11	<20	2e	<2	0.10	12.1	71.38	5.4	33.69	7.8
I24	06 Apr 2021	1120	2	22e	4e	2e	0.18	15.6	70.92	8.7	33.63	8.2
I24	06 Apr 2021	1120	6	3400e	980	240e	0.29	14.3	63.96	7.7	33.60	8.1
I24	06 Apr 2021	1120	11	1800e	320e	38	0.18	13.2	71.65	6.6	33.64	8.0
I24	15 Apr 2021	1021	2	60e	22e	84	0.37	16.4	57.79	8.6	33.58	8.2
I24	15 Apr 2021	1021	6	<20	<2	<2	0.10	13.8	70.94	6.0	33.76	8.0
I24	15 Apr 2021	1021	11	<20	<2	<2	0.10	13.0	53.71	5.2	33.70	7.9
I24	20 Apr 2021	1120	2	<2	<2	<2	1.00	15.2	74.01	8.3	33.67	8.2
I24	20 Apr 2021	1120	6	<2	<2	<2	1.00	12.4	65.34	5.5	33.69	7.9
I24	20 Apr 2021	1120	11	<2	<2	<2	1.00	11.6	56.26	4.7	33.64	7.8
I24	27 Apr 2021	1130	2	20e	2e	<2	0.10	13.9	62.59	8.4	33.66	8.2
I24	27 Apr 2021	1130	6	2e	4e	<2	2.00	11.6	73.71	4.6	33.70	7.9
I24	27 Apr 2021	1130	11	<2	<2	<2	1.00	11.1	68.20	4.5	33.66	7.8
I25	01 Apr 2021	1136	2	1400e	280e	110	0.20	14.4	71.70	7.4	33.49	7.9
I25	01 Apr 2021	1136	6	60e	32e	8e	0.53	12.6	80.40	6.2	33.75	7.9
I25	01 Apr 2021	1136	9	40e	18e	4e	0.45	12.6	83.07	6.0	33.63	7.8
I25	06 Apr 2021	1126	2	<2	<2	14e	1.00	15.6	72.18	8.9	33.65	8.2
I25	06 Apr 2021	1126	6	1200e	92	16e	0.08	14.1	67.58	7.1	33.70	8.1
I25	06 Apr 2021	1126	9	220e	40	10e	0.18	13.3	75.85	6.8	33.60	8.0
I25	15 Apr 2021	1030	2	20e	22e	52	1.10	16.4	58.77	8.3	33.51	8.2
I25	15 Apr 2021	1030	6	4e	<2	<2	0.50	14.5	64.75	7.3	33.73	8.1
I25	15 Apr 2021	1030	9	8e	2e	<2	0.25	13.9	72.94	6.5	33.68	8.0

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I25	20 Apr 2021	1136	2	<2	<2	<2	1.00	15.3	73.47	8.3	33.67	8.2
I25	20 Apr 2021	1136	6	<2	<2	<2	1.00	13.0	69.84	6.8	33.62	8.0
I25	20 Apr 2021	1136	9	<2	<2	<2	1.00	11.8	66.90	5.1	33.65	7.9
I25	27 Apr 2021	1138	2	<20	2e	<2	0.10	14.4	61.46	8.6	33.67	8.2
I25	27 Apr 2021	1138	6	<2	<2	<2	1.00	12.4	75.29	5.9	33.74	8.0
I25	27 Apr 2021	1138	9	<2	<2	<2	1.00	11.6	74.27	4.7	33.65	7.8
I26	01 Apr 2021	1146	2	6e	8e	<2	1.33	14.4	78.06	7.6	33.67	8.0
I26	01 Apr 2021	1146	6	<2	<2	<2	1.00	12.1	82.84	5.5	33.72	7.8
I26	01 Apr 2021	1146	9	<2	<2	2e	1.00	12.0	83.39	5.5	33.69	7.8
I26	06 Apr 2021	1144	2	<2	<2	<2	1.00	15.7	73.56	9.0	33.66	8.2
I26	06 Apr 2021	1144	6	2e	<2	<2	1.00	14.3	68.64	8.0	33.67	8.1
I26	06 Apr 2021	1144	9	<20	<2	<2	0.10	13.3	76.60	6.8	33.53	8.0
I26	15 Apr 2021	1040	2	<2	<2	<2	1.00	16.6	67.34	9.3	33.69	8.3
I26	15 Apr 2021	1040	6	<2	<2	<2	1.00	14.0	67.84	7.7	33.70	8.1
I26	15 Apr 2021	1040	9	<2	<2	<2	1.00	13.4	71.65	6.5	33.70	8.0
I26	20 Apr 2021	1148	2	<2	<2	<2	1.00	15.8	71.42	8.7	33.68	8.2
I26	20 Apr 2021	1148	6	<20	<2	<2	0.10	13.4	67.09	7.3	33.64	8.0
I26	20 Apr 2021	1148	9	<20	<2	2e	0.10	12.0	68.32	5.4	33.63	7.9
I26	27 Apr 2021	1149	2	<2	<2	<2	1.00	14.4	67.06	9.1	33.71	8.2
I26	27 Apr 2021	1149	6	<2	<2	<2	1.00	12.0	76.04	5.9	33.68	8.0
I26	27 Apr 2021	1149	9	<2	<2	<2	1.00	11.3	81.37	4.7	33.65	7.8
I32	01 Apr 2021	1156	2	4e	2e	<2	0.50	14.4	76.51	7.6	33.67	8.0
I32	01 Apr 2021	1156	6	<200	22e	8e	0.11	12.5	76.64	5.8	33.69	7.8
I32	01 Apr 2021	1156	9	60e	16e	<2	0.27	12.2	76.72	5.6	33.70	7.8
I32	06 Apr 2021	1157	2	<2	<2	<2	1.00	16.1	68.72	9.1	33.64	8.2
I32	06 Apr 2021	1157	6	<2	<2	<2	1.00	15.6	60.35	8.6	33.65	8.2
I32	06 Apr 2021	1157	9	4e	2e	<2	0.50	12.9	41.20	6.8	33.61	7.9
I32	15 Apr 2021	1053	2	<2	<2	<2	1.00	16.1	61.62	7.9	33.71	8.2
I32	15 Apr 2021	1053	6	<20	<2	<2	0.10	13.9	64.84	6.3	33.71	8.0
I32	15 Apr 2021	1053	9	<20	<2	<2	0.10	13.4	63.90	5.9	33.69	7.9
I32	20 Apr 2021	1201	2	<2	<2	<2	1.00	15.5	60.64	8.8	33.67	8.2
I32	20 Apr 2021	1201	6	<20	<2	<2	0.10	15.2	58.76	8.6	33.67	8.2
I32	20 Apr 2021	1201	9	<20	<2	<2	0.10	13.7	41.66	7.2	33.66	8.0
I32	27 Apr 2021	1200	2	<2	<2	<2	1.00	14.6	69.41	8.6	33.68	8.2
I32	27 Apr 2021	1200	6	<2	<2	<2	1.00	11.6	64.92	5.1	33.75	7.9
I32	27 Apr 2021	1200	9	<20	<2	<2	0.10	11.3	62.96	4.4	33.65	7.8
I39	01 Apr 2021	1047	2	<2	<2	<2	1.00	14.4	80.59	7.9	33.71	8.0
I39	01 Apr 2021	1047	12	<2	<2	<2	1.00	13.2	80.72	6.6	33.69	7.9
I39	01 Apr 2021	1047	18	<2	<2	<2	1.00	11.4	84.93	4.8	33.73	7.7
I39	06 Apr 2021	1037	2	<2	<2	8e	1.00	15.4	74.23	9.0	33.65	8.2
I39	06 Apr 2021	1037	12	<2	<2	<2	1.00	12.2	82.12	5.6	33.68	7.9
I39	06 Apr 2021	1037	18	<2	<2	<2	1.00	11.6	82.29	4.7	33.70	7.8
I39	15 Apr 2021	934	2	<2	<2	<2	1.00	16.1	73.34	9.3	33.69	8.3
I39	15 Apr 2021	934	12	2e	2e	<2	1.00	15.8	72.24	9.1	33.68	8.2
I39	15 Apr 2021	934	18	<2	<2	<2	1.00	12.2	70.79	5.8	33.75	8.0
I39	20 Apr 2021	1034	2	<2	<2	<2	1.00	15.0	74.89	8.1	33.67	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH
I39	20 Apr 2021	1034	12	<2	<2	<2	1.00	11.0	83.33	4.8	33.70	7.8
I39	20 Apr 2021	1034	18	<2	<2	<2	1.00	10.8	80.65	4.7	33.73	7.8
I39	27 Apr 2021	1052	2	<2	<2	<2	1.00	13.9	77.11	7.4	33.73	8.1
I39	27 Apr 2021	1052	12	<2	<2	<2	1.00	13.5	70.44	7.6	33.69	8.1
I39	27 Apr 2021	1052	18	2e	<2	<2	1.00	10.8	85.08	4.7	33.70	7.9
I40	01 Apr 2021	1119	2	5200	2000e	4400	0.38	13.8	64.44	7.2	33.59	7.9
I40	01 Apr 2021	1119	6	600e	100e	68	0.17	12.2	80.90	5.6	33.73	7.8
I40	01 Apr 2021	1119	9	<200	52	56	0.26	12.0	65.10	5.2	33.70	7.8
I40	06 Apr 2021	1110	2	1200e	220e	76	0.18	15.1	59.04	8.2	33.45	8.1
I40	06 Apr 2021	1110	6	160e	18e	6e	0.11	14.1	62.83	7.5	33.60	8.0
I40	06 Apr 2021	1110	9	400e	66	12e	0.16	12.9	44.63	6.0	33.67	7.9
I40	15 Apr 2021	1011	2	200e	80e	400	0.40	16.4	56.04	8.1	33.56	8.2
I40	15 Apr 2021	1011	6	20e	<2	<2	0.10	13.6	70.61	6.0	33.71	8.0
I40	15 Apr 2021	1011	9	4e	<2	<2	0.50	13.2	61.23	5.7	33.69	7.9
I40	20 Apr 2021	1108	2	<2	<2	<2	1.00	15.4	69.43	8.6	33.67	8.2
I40	20 Apr 2021	1108	6	<20	<2	2e	0.10	13.1	60.48	7.3	33.70	8.0
I40	20 Apr 2021	1108	9	<20	6e	<2	0.30	11.6	48.86	4.7	33.66	7.8
I40	27 Apr 2021	1123	2	<2	<2	<2	1.00	13.9	67.82	7.8	33.69	8.1
I40	27 Apr 2021	1123	6	<2	<2	<2	1.00	11.7	67.36	5.1	33.66	7.9
I40	27 Apr 2021	1123	9	2e	<2	4e	1.00	11.2	60.17	4.4	33.66	7.8

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
I19	01 Apr 2021	Depth (m)	11.1
I19	01 Apr 2021	Arrive Time	1105
I19	01 Apr 2021	Depart Time	1112
I19	01 Apr 2021	Air Temp (C)	18.2
I19	01 Apr 2021	Weather	Partly Cloudy
I19	01 Apr 2021	Visibility (mi)	12
I19	01 Apr 2021	Wind Speed (kts)	2.2
I19	01 Apr 2021	Wind Dir	W
I19	01 Apr 2021	Water Color	Green
I19	01 Apr 2021	Wave Ht Low (ft)	3
I19	01 Apr 2021	Wave Period (sec)	17
I19	01 Apr 2021	Sea State	Calm
I19	01 Apr 2021	High Tide (ft)	5.51208
I19	01 Apr 2021	High Tide Time	6
I19	01 Apr 2021	Low Tide (ft)	-0.49215
I19	01 Apr 2021	Low Tide Time	648
I19	01 Apr 2021	Comments	none
I19	06 Apr 2021	Depth (m)	10.2
I19	06 Apr 2021	Arrive Time	1057
I19	06 Apr 2021	Depart Time	1104
I19	06 Apr 2021	Air Temp (C)	15
I19	06 Apr 2021	Weather	Partly Cloudy
I19	06 Apr 2021	Visibility (mi)	10
I19	06 Apr 2021	Wind Speed (kts)	1.3
I19	06 Apr 2021	Wind Dir	SE
I19	06 Apr 2021	Water Color	Greenish-Brown
I19	06 Apr 2021	Wave Ht Low (ft)	3
I19	06 Apr 2021	Wave Period (sec)	8
I19	06 Apr 2021	Sea State	Light Chop
I19	06 Apr 2021	High Tide (ft)	4.5934
I19	06 Apr 2021	High Tide Time	548
I19	06 Apr 2021	Low Tide (ft)	-0.55777
I19	06 Apr 2021	Low Tide Time	1300
I19	06 Apr 2021	Comments	none
I19	15 Apr 2021	Depth (m)	12
I19	15 Apr 2021	Arrive Time	957
I19	15 Apr 2021	Depart Time	1002
I19	15 Apr 2021	Air Temp (C)	14
I19	15 Apr 2021	Weather	Partly Cloudy
I19	15 Apr 2021	Visibility (mi)	12
I19	15 Apr 2021	Wind Speed (kts)	2
I19	15 Apr 2021	Wind Dir	NW
I19	15 Apr 2021	Water Color	Brownish-Green
I19	15 Apr 2021	Wave Ht Low (ft)	4
I19	15 Apr 2021	Wave Period (sec)	16
I19	15 Apr 2021	Sea State	Calm
I19	15 Apr 2021	High Tide (ft)	3.2
I19	15 Apr 2021	High Tide Time	1201
I19	15 Apr 2021	Low Tide (ft)	0.1
I19	15 Apr 2021	Low Tide Time	552
I19	15 Apr 2021	Comments	Possible red tide
I19	20 Apr 2021	Depth (m)	10.1
I19	20 Apr 2021	Arrive Time	1055

Station	Date	Parameter	Value
I19	20 Apr 2021	Depart Time	1101
I19	20 Apr 2021	Air Temp (C)	13.5
I19	20 Apr 2021	Weather	Overcast
I19	20 Apr 2021	Visibility (mi)	6
I19	20 Apr 2021	Wind Speed (kts)	11.8
I19	20 Apr 2021	Wind Dir	SW
I19	20 Apr 2021	Water Color	Green
I19	20 Apr 2021	Wave Ht Low (ft)	5
I19	20 Apr 2021	Wave Period (sec)	8
I19	20 Apr 2021	Sea State	Confused Swell
I19	20 Apr 2021	High Tide (ft)	3.90439
I19	20 Apr 2021	High Tide Time	254
I19	20 Apr 2021	Low Tide (ft)	0.26248
I19	20 Apr 2021	Low Tide Time	1112
I19	20 Apr 2021	Comments	Deepest depth bin 10m due to low tide
I19	27 Apr 2021	Depth (m)	11.6
I19	27 Apr 2021	Arrive Time	1112
I19	27 Apr 2021	Depart Time	1116
I19	27 Apr 2021	Air Temp (C)	14
I19	27 Apr 2021	Weather	Partly Cloudy
I19	27 Apr 2021	Visibility (mi)	18
I19	27 Apr 2021	Wind Speed (kts)	5.9
I19	27 Apr 2021	Wind Dir	SW
I19	27 Apr 2021	Water Color	Brownish-Green
I19	27 Apr 2021	Wave Ht Low (ft)	4
I19	27 Apr 2021	Wave Period (sec)	13
I19	27 Apr 2021	Sea State	Calm
I19	27 Apr 2021	High Tide (ft)	6.2339
I19	27 Apr 2021	High Tide Time	2148
I19	27 Apr 2021	Low Tide (ft)	-1.14835
I19	27 Apr 2021	Low Tide Time	406
I19	27 Apr 2021	Comments	none
I24	01 Apr 2021	Depth (m)	10.2
I24	01 Apr 2021	Arrive Time	1129
I24	01 Apr 2021	Depart Time	1135
I24	01 Apr 2021	Air Temp (C)	18.4
I24	01 Apr 2021	Weather	Partly Cloudy
I24	01 Apr 2021	Visibility (mi)	12
I24	01 Apr 2021	Wind Speed (kts)	8.3
I24	01 Apr 2021	Wind Dir	W
I24	01 Apr 2021	Water Color	Green
I24	01 Apr 2021	Wave Ht Low (ft)	3
I24	01 Apr 2021	Wave Period (sec)	17
I24	01 Apr 2021	Sea State	Calm
I24	01 Apr 2021	High Tide (ft)	5.51208
I24	01 Apr 2021	High Tide Time	6
I24	01 Apr 2021	Low Tide (ft)	-0.49215
I24	01 Apr 2021	Low Tide Time	648
I24	01 Apr 2021	Comments	none
I24	06 Apr 2021	Depth (m)	8.8
I24	06 Apr 2021	Arrive Time	1120
I24	06 Apr 2021	Depart Time	1124
I24	06 Apr 2021	Air Temp (C)	15
I24	06 Apr 2021	Weather	Partly Cloudy
I24	06 Apr 2021	Visibility (mi)	10
I24	06 Apr 2021	Wind Speed (kts)	5.9
I24	06 Apr 2021	Wind Dir	SW
I24	06 Apr 2021	Water Color	Greenish-Brown

Station	Date	Parameter	Value
I24	06 Apr 2021	Wave Ht Low (ft)	3
I24	06 Apr 2021	Wave Period (sec)	8
I24	06 Apr 2021	Sea State	Light Chop
I24	06 Apr 2021	High Tide (ft)	4.5934
I24	06 Apr 2021	High Tide Time	548
I24	06 Apr 2021	Low Tide (ft)	-0.55777
I24	06 Apr 2021	Low Tide Time	1300
I24	06 Apr 2021	Comments	none
I24	15 Apr 2021	Depth (m)	11
I24	15 Apr 2021	Arrive Time	1021
I24	15 Apr 2021	Depart Time	1025
I24	15 Apr 2021	Air Temp (C)	14
I24	15 Apr 2021	Weather	Partly Cloudy
I24	15 Apr 2021	Visibility (mi)	12
I24	15 Apr 2021	Wind Speed (kts)	4
I24	15 Apr 2021	Wind Dir	NW
I24	15 Apr 2021	Water Color	Green
I24	15 Apr 2021	Wave Ht Low (ft)	4
I24	15 Apr 2021	Wave Period (sec)	16
I24	15 Apr 2021	Sea State	Calm
I24	15 Apr 2021	High Tide (ft)	3.2
I24	15 Apr 2021	High Tide Time	1201
I24	15 Apr 2021	Low Tide (ft)	0.1
I24	15 Apr 2021	Low Tide Time	552
I24	15 Apr 2021	Comments	none
I24	20 Apr 2021	Depth (m)	9.5
I24	20 Apr 2021	Arrive Time	1120
I24	20 Apr 2021	Depart Time	1124
I24	20 Apr 2021	Air Temp (C)	13.6
I24	20 Apr 2021	Weather	Partly Cloudy
I24	20 Apr 2021	Visibility (mi)	6
I24	20 Apr 2021	Wind Speed (kts)	8.4
I24	20 Apr 2021	Wind Dir	S
I24	20 Apr 2021	Water Color	Brownish-Green
I24	20 Apr 2021	Wave Ht Low (ft)	5
I24	20 Apr 2021	Wave Period (sec)	7
I24	20 Apr 2021	Sea State	Light Chop
I24	20 Apr 2021	High Tide (ft)	3.90439
I24	20 Apr 2021	High Tide Time	254
I24	20 Apr 2021	Low Tide (ft)	0.26248
I24	20 Apr 2021	Low Tide Time	1112
I24	20 Apr 2021	Comments	Deepest depth bin 10m due to low tide; Possible Red Tide
I24	27 Apr 2021	Depth (m)	10.9
I24	27 Apr 2021	Arrive Time	1130
I24	27 Apr 2021	Depart Time	1135
I24	27 Apr 2021	Air Temp (C)	14.4
I24	27 Apr 2021	Weather	Partly Cloudy
I24	27 Apr 2021	Visibility (mi)	18
I24	27 Apr 2021	Wind Speed (kts)	18.2
I24	27 Apr 2021	Wind Dir	W
I24	27 Apr 2021	Water Color	Brownish-Green
I24	27 Apr 2021	Wave Ht Low (ft)	4
I24	27 Apr 2021	Wave Period (sec)	13
I24	27 Apr 2021	Sea State	Calm
I24	27 Apr 2021	High Tide (ft)	6.2339
I24	27 Apr 2021	High Tide Time	2148
I24	27 Apr 2021	Low Tide (ft)	-1.14835
I24	27 Apr 2021	Low Tide Time	406

Station	Date	Parameter	Value
I24	27 Apr 2021	Comments	none
I25	01 Apr 2021	Depth (m)	9.2
I25	01 Apr 2021	Arrive Time	1136
I25	01 Apr 2021	Depart Time	1142
I25	01 Apr 2021	Air Temp (C)	19.2
I25	01 Apr 2021	Weather	Partly Cloudy
I25	01 Apr 2021	Visibility (mi)	12
I25	01 Apr 2021	Wind Speed (kts)	10.4
I25	01 Apr 2021	Wind Dir	SW
I25	01 Apr 2021	Water Color	Green
I25	01 Apr 2021	Wave Ht Low (ft)	3
I25	01 Apr 2021	Wave Period (sec)	17
I25	01 Apr 2021	Sea State	Calm
I25	01 Apr 2021	High Tide (ft)	5.51208
I25	01 Apr 2021	High Tide Time	6
I25	01 Apr 2021	Low Tide (ft)	-0.49215
I25	01 Apr 2021	Low Tide Time	648
I25	01 Apr 2021	Comments	Freshwater Lens
I25	06 Apr 2021	Depth (m)	8.5
I25	06 Apr 2021	Arrive Time	1126
I25	06 Apr 2021	Depart Time	1132
I25	06 Apr 2021	Air Temp (C)	15
I25	06 Apr 2021	Weather	Partly Cloudy
I25	06 Apr 2021	Visibility (mi)	10
I25	06 Apr 2021	Wind Speed (kts)	11.8
I25	06 Apr 2021	Wind Dir	SW
I25	06 Apr 2021	Water Color	Greenish-Brown
I25	06 Apr 2021	Wave Ht Low (ft)	3
I25	06 Apr 2021	Wave Period (sec)	8
I25	06 Apr 2021	Sea State	Light Chop
I25	06 Apr 2021	High Tide (ft)	4.5934
I25	06 Apr 2021	High Tide Time	548
I25	06 Apr 2021	Low Tide (ft)	-0.55777
I25	06 Apr 2021	Low Tide Time	1300
I25	06 Apr 2021	Comments	none
I25	15 Apr 2021	Depth (m)	11
I25	15 Apr 2021	Arrive Time	1030
I25	15 Apr 2021	Depart Time	1034
I25	15 Apr 2021	Air Temp (C)	14
I25	15 Apr 2021	Weather	Partly Cloudy
I25	15 Apr 2021	Visibility (mi)	12
I25	15 Apr 2021	Wind Speed (kts)	14
I25	15 Apr 2021	Wind Dir	NW
I25	15 Apr 2021	Water Color	Green
I25	15 Apr 2021	Wave Ht Low (ft)	4
I25	15 Apr 2021	Wave Period (sec)	16
I25	15 Apr 2021	Sea State	Calm
I25	15 Apr 2021	High Tide (ft)	3.2
I25	15 Apr 2021	High Tide Time	1201
I25	15 Apr 2021	Low Tide (ft)	0.1
I25	15 Apr 2021	Low Tide Time	552
I25	15 Apr 2021	Comments	none
I25	20 Apr 2021	Depth (m)	8.4
I25	20 Apr 2021	Arrive Time	1136
I25	20 Apr 2021	Depart Time	1141
I25	20 Apr 2021	Air Temp (C)	13.7
I25	20 Apr 2021	Weather	Partly Cloudy

Station	Date	Parameter	Value
I25	20 Apr 2021	Visibility (mi)	6
I25	20 Apr 2021	Wind Speed (kts)	18.4
I25	20 Apr 2021	Wind Dir	SE
I25	20 Apr 2021	Water Color	Brownish-Green
I25	20 Apr 2021	Wave Ht Low (ft)	5
I25	20 Apr 2021	Wave Period (sec)	7
I25	20 Apr 2021	Sea State	Light Chop
I25	20 Apr 2021	High Tide (ft)	3.90439
I25	20 Apr 2021	High Tide Time	254
I25	20 Apr 2021	Low Tide (ft)	0.26248
I25	20 Apr 2021	Low Tide Time	1112
I25	20 Apr 2021	Comments	none
I25	27 Apr 2021	Depth (m)	9.8
I25	27 Apr 2021	Arrive Time	1138
I25	27 Apr 2021	Depart Time	1141
I25	27 Apr 2021	Air Temp (C)	14.3
I25	27 Apr 2021	Weather	Partly Cloudy
I25	27 Apr 2021	Visibility (mi)	18
I25	27 Apr 2021	Wind Speed (kts)	6
I25	27 Apr 2021	Wind Dir	SW
I25	27 Apr 2021	Water Color	Greenish-Brown
I25	27 Apr 2021	Wave Ht Low (ft)	4
I25	27 Apr 2021	Wave Period (sec)	13
I25	27 Apr 2021	Sea State	Calm
I25	27 Apr 2021	High Tide (ft)	6.2339
I25	27 Apr 2021	High Tide Time	2148
I25	27 Apr 2021	Low Tide (ft)	-1.14835
I25	27 Apr 2021	Low Tide Time	406
I25	27 Apr 2021	Comments	none
I26	01 Apr 2021	Depth (m)	9.9
I26	01 Apr 2021	Arrive Time	1146
I26	01 Apr 2021	Depart Time	1149
I26	01 Apr 2021	Air Temp (C)	19.5
I26	01 Apr 2021	Weather	Partly Cloudy
I26	01 Apr 2021	Visibility (mi)	12
I26	01 Apr 2021	Wind Speed (kts)	9.9
I26	01 Apr 2021	Wind Dir	W
I26	01 Apr 2021	Water Color	Green
I26	01 Apr 2021	Wave Ht Low (ft)	3
I26	01 Apr 2021	Wave Period (sec)	17
I26	01 Apr 2021	Sea State	Calm
I26	01 Apr 2021	High Tide (ft)	5.51208
I26	01 Apr 2021	High Tide Time	6
I26	01 Apr 2021	Low Tide (ft)	-0.49215
I26	01 Apr 2021	Low Tide Time	648
I26	01 Apr 2021	Comments	none
I26	06 Apr 2021	Depth (m)	8.8
I26	06 Apr 2021	Arrive Time	1144
I26	06 Apr 2021	Depart Time	1148
I26	06 Apr 2021	Air Temp (C)	15.1
I26	06 Apr 2021	Weather	Partly Cloudy
I26	06 Apr 2021	Visibility (mi)	10
I26	06 Apr 2021	Wind Speed (kts)	4.8
I26	06 Apr 2021	Wind Dir	S
I26	06 Apr 2021	Water Color	Greenish-Brown
I26	06 Apr 2021	Wave Ht Low (ft)	3
I26	06 Apr 2021	Wave Period (sec)	8
I26	06 Apr 2021	Sea State	Light Chop

Station	Date	Parameter	Value
I26	06 Apr 2021	High Tide (ft)	4.5934
I26	06 Apr 2021	High Tide Time	548
I26	06 Apr 2021	Low Tide (ft)	-0.55777
I26	06 Apr 2021	Low Tide Time	1300
I26	06 Apr 2021	Comments	none
I26	15 Apr 2021	Depth (m)	11
I26	15 Apr 2021	Arrive Time	1040
I26	15 Apr 2021	Depart Time	1046
I26	15 Apr 2021	Air Temp (C)	14
I26	15 Apr 2021	Weather	Partly Cloudy
I26	15 Apr 2021	Visibility (mi)	12
I26	15 Apr 2021	Wind Speed (kts)	6
I26	15 Apr 2021	Wind Dir	NW
I26	15 Apr 2021	Water Color	Green
I26	15 Apr 2021	Wave Ht Low (ft)	4
I26	15 Apr 2021	Wave Period (sec)	16
I26	15 Apr 2021	Sea State	Calm
I26	15 Apr 2021	High Tide (ft)	3.2
I26	15 Apr 2021	High Tide Time	1201
I26	15 Apr 2021	Low Tide (ft)	0.1
I26	15 Apr 2021	Low Tide Time	552
I26	15 Apr 2021	Comments	none
I26	20 Apr 2021	Depth (m)	9.6
I26	20 Apr 2021	Arrive Time	1148
I26	20 Apr 2021	Depart Time	1152
I26	20 Apr 2021	Air Temp (C)	13.7
I26	20 Apr 2021	Weather	Partly Cloudy
I26	20 Apr 2021	Visibility (mi)	6
I26	20 Apr 2021	Wind Speed (kts)	12.6
I26	20 Apr 2021	Wind Dir	S
I26	20 Apr 2021	Water Color	Brownish-Green
I26	20 Apr 2021	Wave Ht Low (ft)	5
I26	20 Apr 2021	Wave Period (sec)	7
I26	20 Apr 2021	Sea State	Light Chop
I26	20 Apr 2021	High Tide (ft)	3.90439
I26	20 Apr 2021	High Tide Time	254
I26	20 Apr 2021	Low Tide (ft)	0.26248
I26	20 Apr 2021	Low Tide Time	1112
I26	20 Apr 2021	Comments	none
I26	27 Apr 2021	Depth (m)	9.6
I26	27 Apr 2021	Arrive Time	1149
I26	27 Apr 2021	Depart Time	1152
I26	27 Apr 2021	Air Temp (C)	14.2
I26	27 Apr 2021	Weather	Partly Cloudy
I26	27 Apr 2021	Visibility (mi)	18
I26	27 Apr 2021	Wind Speed (kts)	9
I26	27 Apr 2021	Wind Dir	SW
I26	27 Apr 2021	Water Color	Greenish-Brown
I26	27 Apr 2021	Wave Ht Low (ft)	4
I26	27 Apr 2021	Wave Period (sec)	13
I26	27 Apr 2021	Sea State	Calm
I26	27 Apr 2021	High Tide (ft)	6.2339
I26	27 Apr 2021	High Tide Time	2148
I26	27 Apr 2021	Low Tide (ft)	-1.14835
I26	27 Apr 2021	Low Tide Time	406
I26	27 Apr 2021	Comments	Kelp Debris
I32	01 Apr 2021	Depth (m)	10.6

Station	Date	Parameter	Value
I32	01 Apr 2021	Arrive Time	1156
I32	01 Apr 2021	Depart Time	1200
I32	01 Apr 2021	Air Temp (C)	19.2
I32	01 Apr 2021	Weather	Partly Cloudy
I32	01 Apr 2021	Visibility (mi)	12
I32	01 Apr 2021	Wind Speed (kts)	13.2
I32	01 Apr 2021	Wind Dir	SW
I32	01 Apr 2021	Water Color	Green
I32	01 Apr 2021	Wave Ht Low (ft)	3
I32	01 Apr 2021	Wave Period (sec)	17
I32	01 Apr 2021	Sea State	Calm
I32	01 Apr 2021	High Tide (ft)	5.51208
I32	01 Apr 2021	High Tide Time	6
I32	01 Apr 2021	Low Tide (ft)	-0.49215
I32	01 Apr 2021	Low Tide Time	648
I32	01 Apr 2021	Comments	Freshwater Lens
I32	06 Apr 2021	Depth (m)	9.9
I32	06 Apr 2021	Arrive Time	1157
I32	06 Apr 2021	Depart Time	1200
I32	06 Apr 2021	Air Temp (C)	15.1
I32	06 Apr 2021	Weather	Partly Cloudy
I32	06 Apr 2021	Visibility (mi)	10
I32	06 Apr 2021	Wind Speed (kts)	4.6
I32	06 Apr 2021	Wind Dir	SW
I32	06 Apr 2021	Water Color	Greenish-Brown
I32	06 Apr 2021	Wave Ht Low (ft)	3
I32	06 Apr 2021	Wave Period (sec)	8
I32	06 Apr 2021	Sea State	Light Chop
I32	06 Apr 2021	High Tide (ft)	4.5934
I32	06 Apr 2021	High Tide Time	548
I32	06 Apr 2021	Low Tide (ft)	-0.55777
I32	06 Apr 2021	Low Tide Time	1300
I32	06 Apr 2021	Comments	none
I32	15 Apr 2021	Depth (m)	11
I32	15 Apr 2021	Arrive Time	1053
I32	15 Apr 2021	Depart Time	1106
I32	15 Apr 2021	Air Temp (C)	14
I32	15 Apr 2021	Weather	Partly Cloudy
I32	15 Apr 2021	Visibility (mi)	12
I32	15 Apr 2021	Wind Speed (kts)	8
I32	15 Apr 2021	Wind Dir	NW
I32	15 Apr 2021	Water Color	Green
I32	15 Apr 2021	Wave Ht Low (ft)	4
I32	15 Apr 2021	Wave Period (sec)	16
I32	15 Apr 2021	Sea State	Calm
I32	15 Apr 2021	High Tide (ft)	3.2
I32	15 Apr 2021	High Tide Time	1201
I32	15 Apr 2021	Low Tide (ft)	0.1
I32	15 Apr 2021	Low Tide Time	552
I32	15 Apr 2021	Comments	none
I32	20 Apr 2021	Depth (m)	9.3
I32	20 Apr 2021	Arrive Time	1201
I32	20 Apr 2021	Depart Time	1206
I32	20 Apr 2021	Air Temp (C)	13.9
I32	20 Apr 2021	Weather	Partly Cloudy
I32	20 Apr 2021	Visibility (mi)	6
I32	20 Apr 2021	Wind Speed (kts)	14
I32	20 Apr 2021	Wind Dir	S

Station	Date	Parameter	Value
I32	20 Apr 2021	Water Color	Greenish-Brown
I32	20 Apr 2021	Wave Ht Low (ft)	5
I32	20 Apr 2021	Wave Period (sec)	7
I32	20 Apr 2021	Sea State	Light Chop
I32	20 Apr 2021	High Tide (ft)	3.90439
I32	20 Apr 2021	High Tide Time	254
I32	20 Apr 2021	Low Tide (ft)	0.26248
I32	20 Apr 2021	Low Tide Time	1112
I32	20 Apr 2021	Comments	Kelp Debris
I32	27 Apr 2021	Depth (m)	10.8
I32	27 Apr 2021	Arrive Time	1200
I32	27 Apr 2021	Depart Time	1203
I32	27 Apr 2021	Air Temp (C)	14.1
I32	27 Apr 2021	Weather	Partly Cloudy
I32	27 Apr 2021	Visibility (mi)	18
I32	27 Apr 2021	Wind Speed (kts)	9.1
I32	27 Apr 2021	Wind Dir	S
I32	27 Apr 2021	Water Color	Green
I32	27 Apr 2021	Wave Ht Low (ft)	4
I32	27 Apr 2021	Wave Period (sec)	13
I32	27 Apr 2021	Sea State	Light Chop
I32	27 Apr 2021	High Tide (ft)	6.2339
I32	27 Apr 2021	High Tide Time	2148
I32	27 Apr 2021	Low Tide (ft)	-1.14835
I32	27 Apr 2021	Low Tide Time	406
I32	27 Apr 2021	Comments	Kelp Debris
I39	01 Apr 2021	Depth (m)	19.2
I39	01 Apr 2021	Arrive Time	1047
I39	01 Apr 2021	Depart Time	1054
I39	01 Apr 2021	Air Temp (C)	18.9
I39	01 Apr 2021	Weather	Partly Cloudy
I39	01 Apr 2021	Visibility (mi)	12
I39	01 Apr 2021	Wind Speed (kts)	6.5
I39	01 Apr 2021	Wind Dir	W
I39	01 Apr 2021	Water Color	Green
I39	01 Apr 2021	Wave Ht Low (ft)	3
I39	01 Apr 2021	Wave Period (sec)	17
I39	01 Apr 2021	Sea State	Calm
I39	01 Apr 2021	High Tide (ft)	5.51208
I39	01 Apr 2021	High Tide Time	6
I39	01 Apr 2021	Low Tide (ft)	-0.49215
I39	01 Apr 2021	Low Tide Time	648
I39	01 Apr 2021	Comments	none
I39	06 Apr 2021	Depth (m)	18.8
I39	06 Apr 2021	Arrive Time	1037
I39	06 Apr 2021	Depart Time	1044
I39	06 Apr 2021	Air Temp (C)	14.8
I39	06 Apr 2021	Weather	Partly Cloudy
I39	06 Apr 2021	Visibility (mi)	10
I39	06 Apr 2021	Wind Speed (kts)	6.2
I39	06 Apr 2021	Wind Dir	SW
I39	06 Apr 2021	Water Color	Green
I39	06 Apr 2021	Wave Ht Low (ft)	3
I39	06 Apr 2021	Wave Period (sec)	8
I39	06 Apr 2021	Sea State	Light Chop
I39	06 Apr 2021	High Tide (ft)	4.5934
I39	06 Apr 2021	High Tide Time	548
I39	06 Apr 2021	Low Tide (ft)	-0.55777

Station	Date	Parameter	Value
I39	06 Apr 2021	Low Tide Time	1300
I39	06 Apr 2021	Comments	none
I39	15 Apr 2021	Depth (m)	20
I39	15 Apr 2021	Arrive Time	934
I39	15 Apr 2021	Depart Time	939
I39	15 Apr 2021	Air Temp (C)	14
I39	15 Apr 2021	Weather	Partly Cloudy
I39	15 Apr 2021	Visibility (mi)	12
I39	15 Apr 2021	Wind Speed (kts)	2
I39	15 Apr 2021	Wind Dir	NE
I39	15 Apr 2021	Water Color	Green
I39	15 Apr 2021	Wave Ht Low (ft)	4
I39	15 Apr 2021	Wave Period (sec)	16
I39	15 Apr 2021	Sea State	Calm
I39	15 Apr 2021	High Tide (ft)	3.2
I39	15 Apr 2021	High Tide Time	1201
I39	15 Apr 2021	Low Tide (ft)	0.1
I39	15 Apr 2021	Low Tide Time	552
I39	15 Apr 2021	Comments	Kelp
I39	20 Apr 2021	Depth (m)	18.7
I39	20 Apr 2021	Arrive Time	1034
I39	20 Apr 2021	Depart Time	1038
I39	20 Apr 2021	Air Temp (C)	13.5
I39	20 Apr 2021	Weather	Overcast
I39	20 Apr 2021	Visibility (mi)	4
I39	20 Apr 2021	Wind Speed (kts)	7.2
I39	20 Apr 2021	Wind Dir	S
I39	20 Apr 2021	Water Color	Green
I39	20 Apr 2021	Wave Ht Low (ft)	5
I39	20 Apr 2021	Wave Period (sec)	8
I39	20 Apr 2021	Sea State	Confused Swell
I39	20 Apr 2021	High Tide (ft)	3.90439
I39	20 Apr 2021	High Tide Time	254
I39	20 Apr 2021	Low Tide (ft)	0.26248
I39	20 Apr 2021	Low Tide Time	1112
I39	20 Apr 2021	Comments	Kelp Debris; Seagrass; Bottles collected on 1st cast; Recast twice to check salinity spikes and depth
I39	27 Apr 2021	Depth (m)	19.9
I39	27 Apr 2021	Arrive Time	1052
I39	27 Apr 2021	Depart Time	1057
I39	27 Apr 2021	Air Temp (C)	14.1
I39	27 Apr 2021	Weather	Partly Cloudy
I39	27 Apr 2021	Visibility (mi)	18
I39	27 Apr 2021	Wind Speed (kts)	0.3
I39	27 Apr 2021	Wind Dir	W
I39	27 Apr 2021	Water Color	Green
I39	27 Apr 2021	Wave Ht Low (ft)	5
I39	27 Apr 2021	Wave Period (sec)	7
I39	27 Apr 2021	Sea State	Calm
I39	27 Apr 2021	High Tide (ft)	6.2339
I39	27 Apr 2021	High Tide Time	2148
I39	27 Apr 2021	Low Tide (ft)	-1.14835
I39	27 Apr 2021	Low Tide Time	406
I39	27 Apr 2021	Comments	none
I40	01 Apr 2021	Depth (m)	10.7
I40	01 Apr 2021	Arrive Time	1119
I40	01 Apr 2021	Depart Time	1125

Station	Date	Parameter	Value
I40	01 Apr 2021	Air Temp (C)	17.6
I40	01 Apr 2021	Weather	Partly Cloudy
I40	01 Apr 2021	Visibility (mi)	12
I40	01 Apr 2021	Wind Speed (kts)	7.7
I40	01 Apr 2021	Wind Dir	W
I40	01 Apr 2021	Water Color	Green
I40	01 Apr 2021	Wave Ht Low (ft)	3
I40	01 Apr 2021	Wave Period (sec)	17
I40	01 Apr 2021	Sea State	Calm
I40	01 Apr 2021	High Tide (ft)	5.51208
I40	01 Apr 2021	High Tide Time	6
I40	01 Apr 2021	Low Tide (ft)	-0.49215
I40	01 Apr 2021	Low Tide Time	648
I40	01 Apr 2021	Comments	Freshwater Lens
I40	06 Apr 2021	Depth (m)	9.4
I40	06 Apr 2021	Arrive Time	1110
I40	06 Apr 2021	Depart Time	1115
I40	06 Apr 2021	Air Temp (C)	
I40	06 Apr 2021	Weather	Partly Cloudy
I40	06 Apr 2021	Visibility (mi)	10
I40	06 Apr 2021	Wind Speed (kts)	
I40	06 Apr 2021	Wind Dir	
I40	06 Apr 2021	Water Color	Greenish-Brown
I40	06 Apr 2021	Wave Ht Low (ft)	3
I40	06 Apr 2021	Wave Period (sec)	8
I40	06 Apr 2021	Sea State	Light Chop
I40	06 Apr 2021	High Tide (ft)	4.5934
I40	06 Apr 2021	High Tide Time	548
I40	06 Apr 2021	Low Tide (ft)	-0.55777
I40	06 Apr 2021	Low Tide Time	1300
I40	06 Apr 2021	Comments	none
I40	15 Apr 2021	Depth (m)	11
I40	15 Apr 2021	Arrive Time	1011
I40	15 Apr 2021	Depart Time	1014
I40	15 Apr 2021	Air Temp (C)	14
I40	15 Apr 2021	Weather	Partly Cloudy
I40	15 Apr 2021	Visibility (mi)	12
I40	15 Apr 2021	Wind Speed (kts)	2
I40	15 Apr 2021	Wind Dir	NW
I40	15 Apr 2021	Water Color	Brownish-Green
I40	15 Apr 2021	Wave Ht Low (ft)	4
I40	15 Apr 2021	Wave Period (sec)	16
I40	15 Apr 2021	Sea State	Calm
I40	15 Apr 2021	High Tide (ft)	3.2
I40	15 Apr 2021	High Tide Time	1201
I40	15 Apr 2021	Low Tide (ft)	0.1
I40	15 Apr 2021	Low Tide Time	552
I40	15 Apr 2021	Comments	none
I40	20 Apr 2021	Depth (m)	10
I40	20 Apr 2021	Arrive Time	1108
I40	20 Apr 2021	Depart Time	1112
I40	20 Apr 2021	Air Temp (C)	13.7
I40	20 Apr 2021	Weather	Partly Cloudy
I40	20 Apr 2021	Visibility (mi)	6
I40	20 Apr 2021	Wind Speed (kts)	7.3
I40	20 Apr 2021	Wind Dir	S
I40	20 Apr 2021	Water Color	Brownish-Green
I40	20 Apr 2021	Wave Ht Low (ft)	5

Station	Date	Parameter	Value
I40	20 Apr 2021	Wave Period (sec)	8
I40	20 Apr 2021	Sea State	Confused Swell
I40	20 Apr 2021	High Tide (ft)	3.90439
I40	20 Apr 2021	High Tide Time	254
I40	20 Apr 2021	Low Tide (ft)	0.26248
I40	20 Apr 2021	Low Tide Time	1112
I40	20 Apr 2021	Comments	Shallow bacti collected using side davit
I40	27 Apr 2021	Depth (m)	11.5
I40	27 Apr 2021	Arrive Time	1123
I40	27 Apr 2021	Depart Time	1127
I40	27 Apr 2021	Air Temp (C)	14.2
I40	27 Apr 2021	Weather	Partly Cloudy
I40	27 Apr 2021	Visibility (mi)	18
I40	27 Apr 2021	Wind Speed (kts)	7.8
I40	27 Apr 2021	Wind Dir	SW
I40	27 Apr 2021	Water Color	Brownish-Green
I40	27 Apr 2021	Wave Ht Low (ft)	4
I40	27 Apr 2021	Wave Period (sec)	13
I40	27 Apr 2021	Sea State	Calm
I40	27 Apr 2021	High Tide (ft)	6.2339
I40	27 Apr 2021	High Tide Time	2148
I40	27 Apr 2021	Low Tide (ft)	-1.14835
I40	27 Apr 2021	Low Tide Time	406
I40	27 Apr 2021	Comments	none

Table 3.10

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	01 Apr 2021	1	13.63	66.44	7.6	33.66	7.9	25.2	1.17
I19	01 Apr 2021	2	13.51	65.36	7.5	33.67	7.9	25.3	1.38
I19	01 Apr 2021	3	13.42	64.02	7.4	33.68	7.9	25.3	1.76
I19	01 Apr 2021	4	13.29	64.03	7.1	33.69	7.9	25.3	2.25
I19	01 Apr 2021	5	13.08	63.78	6.8	33.70	7.9	25.4	3.04
I19	01 Apr 2021	6	12.91	63.82	6.4	33.70	7.9	25.4	3.60
I19	01 Apr 2021	7	12.59	67.45	6.0	33.73	7.8	25.5	4.06
I19	01 Apr 2021	8	12.04	69.16	5.4	33.73	7.8	25.6	3.42
I19	01 Apr 2021	9	11.95	69.06	5.2	33.72	7.8	25.6	3.01
I19	01 Apr 2021	10	11.95	65.38	5.1	33.71	7.8	25.6	3.18
I19	06 Apr 2021	1	14.59	54.03	7.9	33.33	8.0	24.8	1.71
I19	06 Apr 2021	2	14.18	53.79	7.8	33.42	8.0	24.9	2.13
I19	06 Apr 2021	3	14.05	51.01	7.6	33.44	8.0	25.0	2.96
I19	06 Apr 2021	4	13.46	51.32	7.0	33.66	8.0	25.3	4.55
I19	06 Apr 2021	5	12.67	57.40	5.9	33.74	7.9	25.5	5.19
I19	06 Apr 2021	6	12.39	41.52	5.3	33.68	7.9	25.5	5.33
I19	06 Apr 2021	7	12.27	48.13	5.2	33.67	7.8	25.5	4.80
I19	06 Apr 2021	8	12.25	47.55	5.1	33.66	7.8	25.5	4.57
I19	06 Apr 2021	9	12.19	38.55	5.0	33.66	7.8	25.5	4.98
I19	06 Apr 2021	10	12.19	5.01	4.9	33.66	7.8	25.5	5.71
I19	15 Apr 2021	1	16.14	52.19	8.5	33.64	8.2	24.7	7.00
I19	15 Apr 2021	2	16.09	51.86	8.2	33.65	8.2	24.7	9.11
I19	15 Apr 2021	3	15.40	51.16	7.2	33.74	8.2	24.9	10.55
I19	15 Apr 2021	4	14.26	53.70	6.5	33.74	8.1	25.2	8.99
I19	15 Apr 2021	5	14.09	52.41	6.2	33.70	8.0	25.2	7.14
I19	15 Apr 2021	6	13.78	49.23	6.1	33.71	8.0	25.2	5.84
I19	15 Apr 2021	7	13.62	53.76	6.1	33.70	8.0	25.3	4.67
I19	15 Apr 2021	8	13.36	58.59	6.0	33.71	8.0	25.3	4.22
I19	15 Apr 2021	9	13.27	59.84	5.8	33.70	7.9	25.3	4.06
I19	15 Apr 2021	10	13.25	50.47	5.8	33.70	7.9	25.3	4.18
I19	20 Apr 2021	1	15.42	68.87	8.7	33.67	8.2	24.9	1.88
I19	20 Apr 2021	2	15.39	68.79	8.7	33.68	8.2	24.9	2.05
I19	20 Apr 2021	3	15.33	67.54	8.7	33.67	8.2	24.9	2.69
I19	20 Apr 2021	4	15.18	65.23	8.7	33.68	8.2	24.9	4.29
I19	20 Apr 2021	5	14.87	62.70	8.6	33.69	8.2	25.0	6.91
I19	20 Apr 2021	6	14.47	59.77	8.2	33.69	8.1	25.1	8.53
I19	20 Apr 2021	7	13.07	57.27	6.9	33.69	8.0	25.4	7.17
I19	20 Apr 2021	8	11.87	64.85	5.6	33.72	7.9	25.6	4.96
I19	20 Apr 2021	9	11.57	68.19	5.0	33.64	7.9	25.6	3.76
I19	20 Apr 2021	10	11.29	39.44	4.7	33.64	7.8	25.7	3.65
I19	27 Apr 2021	1	14.64	68.26	8.4	33.68	8.2	25.0	2.77
I19	27 Apr 2021	2	14.37	65.51	8.7	33.69	8.2	25.1	3.36
I19	27 Apr 2021	3	14.34	55.48	8.9	33.68	8.2	25.1	5.85
I19	27 Apr 2021	4	14.06	52.34	9.1	33.67	8.2	25.2	14.31
I19	27 Apr 2021	5	13.83	49.58	8.9	33.67	8.2	25.2	21.17
I19	27 Apr 2021	6	13.53	58.80	7.9	33.70	8.2	25.3	20.58
I19	27 Apr 2021	7	12.28	71.63	5.9	33.73	8.0	25.5	11.43
I19	27 Apr 2021	8	11.42	73.99	5.1	33.68	7.9	25.7	6.42
I19	27 Apr 2021	9	11.52	66.92	5.0	33.63	7.9	25.6	4.51
I19	27 Apr 2021	10	11.21	63.72	4.7	33.66	7.9	25.7	4.12
I24	01 Apr 2021	1	14.74	75.60	7.6	33.60	7.9	24.9	0.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	01 Apr 2021	2	14.54	76.05	7.5	33.63	7.9	25.0	0.92
I24	01 Apr 2021	3	14.42	76.84	7.5	33.63	8.0	25.0	1.07
I24	01 Apr 2021	4	14.15	76.20	7.3	33.70	8.0	25.1	1.37
I24	01 Apr 2021	5	13.21	76.72	6.8	33.78	7.9	25.4	1.72
I24	01 Apr 2021	6	12.81	78.99	6.2	33.72	7.9	25.4	1.75
I24	01 Apr 2021	7	12.56	80.81	5.8	33.72	7.8	25.5	1.53
I24	01 Apr 2021	8	12.19	77.89	5.5	33.72	7.8	25.6	1.31
I24	01 Apr 2021	9	12.12	74.42	5.4	33.70	7.8	25.6	1.35
I24	01 Apr 2021	10	12.13	71.38	5.4	33.69	7.8	25.5	1.30
I24	06 Apr 2021	1	15.77	70.16	8.9	33.62	8.2	24.7	1.57
I24	06 Apr 2021	2	15.64	70.92	8.7	33.63	8.2	24.8	1.90
I24	06 Apr 2021	3	15.15	70.69	8.2	33.65	8.1	24.9	2.85
I24	06 Apr 2021	4	14.83	66.47	7.8	33.61	8.1	24.9	4.43
I24	06 Apr 2021	5	14.52	64.46	7.7	33.61	8.1	25.0	5.72
I24	06 Apr 2021	6	14.26	63.96	7.7	33.60	8.1	25.0	6.63
I24	06 Apr 2021	7	14.25	65.11	7.7	33.59	8.1	25.0	6.69
I24	06 Apr 2021	8	13.99	67.44	7.1	33.64	8.1	25.1	5.81
I24	06 Apr 2021	9	12.70	74.39	6.2	33.67	8.0	25.4	3.59
I24	06 Apr 2021	10	13.20	71.65	6.6	33.64	8.0	25.3	3.40
I24	15 Apr 2021	1	16.54	56.71	8.5	33.49	8.2	24.5	2.78
I24	15 Apr 2021	2	16.35	57.79	8.6	33.58	8.2	24.6	3.41
I24	15 Apr 2021	3	16.01	60.21	8.0	33.70	8.2	24.7	5.40
I24	15 Apr 2021	4	15.07	65.43	7.3	33.79	8.1	25.0	5.49
I24	15 Apr 2021	5	14.39	68.84	6.5	33.77	8.1	25.2	4.43
I24	15 Apr 2021	6	13.78	70.94	6.0	33.76	8.0	25.3	3.58
I24	15 Apr 2021	7	13.24	72.60	5.6	33.77	8.0	25.4	3.07
I24	15 Apr 2021	8	13.01	68.49	5.4	33.72	7.9	25.4	2.75
I24	15 Apr 2021	9	12.97	64.23	5.3	33.70	7.9	25.4	2.56
I24	15 Apr 2021	10	12.99	53.71	5.2	33.70	7.9	25.4	2.47
I24	20 Apr 2021	1	15.25	73.85	8.3	33.67	8.2	24.9	1.26
I24	20 Apr 2021	2	15.24	74.01	8.3	33.67	8.2	24.9	1.29
I24	20 Apr 2021	3	14.83	73.10	8.0	33.71	8.2	25.0	1.85
I24	20 Apr 2021	4	13.94	66.12	7.6	33.67	8.1	25.2	3.29
I24	20 Apr 2021	5	13.55	63.59	6.6	33.67	8.0	25.3	4.20
I24	20 Apr 2021	6	12.37	65.34	5.5	33.69	7.9	25.5	3.25
I24	20 Apr 2021	7	12.24	64.99	5.0	33.67	7.9	25.5	2.83
I24	20 Apr 2021	8	11.39	64.54	4.6	33.67	7.8	25.7	2.74
I24	20 Apr 2021	9	11.38	59.91	4.5	33.64	7.8	25.6	2.66
I24	20 Apr 2021	10	11.55	56.26	4.7	33.64	7.8	25.6	2.65
I24	27 Apr 2021	1	14.25	61.31	8.7	33.63	8.2	25.1	3.26
I24	27 Apr 2021	2	13.91	62.59	8.4	33.66	8.2	25.2	3.85
I24	27 Apr 2021	3	13.79	65.06	8.1	33.68	8.1	25.2	4.53
I24	27 Apr 2021	4	13.17	68.91	7.1	33.72	8.1	25.4	5.75
I24	27 Apr 2021	5	12.51	71.45	5.8	33.71	8.0	25.5	4.69
I24	27 Apr 2021	6	11.64	73.71	4.6	33.70	7.9	25.6	2.83
I24	27 Apr 2021	7	11.40	72.80	4.3	33.68	7.8	25.7	1.97
I24	27 Apr 2021	8	11.10	74.66	4.3	33.67	7.8	25.7	1.50
I24	27 Apr 2021	9	11.11	73.70	4.4	33.66	7.8	25.7	1.43
I24	27 Apr 2021	10	11.04	70.83	4.4	33.66	7.8	25.7	1.31
I24	27 Apr 2021	11	11.11	68.20	4.5	33.66	7.8	25.7	1.33
I25	01 Apr 2021	1	14.50	69.57	7.3	33.35	7.9	24.8	0.86
I25	01 Apr 2021	2	14.37	71.70	7.4	33.49	7.9	24.9	0.89
I25	01 Apr 2021	3	14.21	76.69	7.6	33.67	8.0	25.1	1.33
I25	01 Apr 2021	4	13.65	77.50	7.2	33.73	8.0	25.3	1.94
I25	01 Apr 2021	5	13.28	78.64	6.8	33.71	7.9	25.3	2.21
I25	01 Apr 2021	6	12.60	80.40	6.2	33.75	7.9	25.5	2.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I25	01 Apr 2021	7	12.30	82.51	5.8	33.70	7.8	25.5	1.82
I25	01 Apr 2021	8	12.25	83.12	5.8	33.69	7.8	25.5	1.43
I25	01 Apr 2021	9	12.60	83.07	6.0	33.63	7.8	25.4	1.25
I25	06 Apr 2021	1	15.76	72.35	9.0	33.64	8.2	24.8	1.47
I25	06 Apr 2021	2	15.59	72.18	8.9	33.65	8.2	24.8	1.66
I25	06 Apr 2021	3	15.35	71.69	8.8	33.66	8.2	24.9	2.12
I25	06 Apr 2021	4	14.86	69.34	8.3	33.65	8.1	25.0	3.09
I25	06 Apr 2021	5	14.77	67.74	8.0	33.61	8.1	25.0	4.05
I25	06 Apr 2021	6	14.07	67.58	7.1	33.70	8.1	25.2	4.91
I25	06 Apr 2021	7	12.80	77.00	6.5	33.70	8.0	25.4	3.64
I25	06 Apr 2021	8	13.28	75.85	6.8	33.60	8.0	25.2	3.23
I25	15 Apr 2021	1	16.54	58.67	8.3	33.46	8.2	24.4	2.55
I25	15 Apr 2021	2	16.42	58.77	8.3	33.51	8.2	24.5	3.24
I25	15 Apr 2021	3	16.15	59.80	8.4	33.65	8.2	24.7	4.84
I25	15 Apr 2021	4	15.91	62.26	8.4	33.70	8.2	24.8	6.09
I25	15 Apr 2021	5	15.15	64.25	8.1	33.75	8.2	25.0	7.34
I25	15 Apr 2021	6	14.53	64.75	7.3	33.73	8.1	25.1	6.47
I25	15 Apr 2021	7	14.10	71.14	6.8	33.71	8.0	25.2	5.09
I25	15 Apr 2021	8	13.94	73.22	6.5	33.69	8.0	25.2	4.02
I25	15 Apr 2021	9	13.95	72.94	6.5	33.68	8.0	25.2	3.29
I25	20 Apr 2021	1	15.28	73.41	8.3	33.66	8.2	24.9	1.16
I25	20 Apr 2021	2	15.28	73.47	8.3	33.67	8.2	24.9	1.22
I25	20 Apr 2021	3	15.17	73.97	7.9	33.67	8.2	24.9	1.41
I25	20 Apr 2021	4	13.92	71.48	7.5	33.77	8.1	25.3	2.18
I25	20 Apr 2021	5	13.15	67.82	7.1	33.67	8.1	25.3	2.92
I25	20 Apr 2021	6	13.04	69.84	6.8	33.62	8.0	25.3	3.29
I25	20 Apr 2021	7	12.53	70.08	5.9	33.68	8.0	25.5	2.90
I25	20 Apr 2021	8	11.82	67.71	5.0	33.62	7.9	25.6	1.98
I25	20 Apr 2021	9	11.85	66.90	5.1	33.65	7.9	25.6	1.85
I25	27 Apr 2021	1	14.88	61.71	8.8	33.56	8.2	24.9	2.09
I25	27 Apr 2021	2	14.36	61.46	8.6	33.67	8.2	25.1	2.82
I25	27 Apr 2021	3	13.76	63.68	8.2	33.70	8.1	25.2	4.86
I25	27 Apr 2021	4	13.41	68.80	7.5	33.70	8.1	25.3	5.57
I25	27 Apr 2021	5	12.98	73.10	6.9	33.70	8.0	25.4	4.95
I25	27 Apr 2021	6	12.45	75.29	5.9	33.74	8.0	25.5	4.28
I25	27 Apr 2021	7	11.47	76.89	4.6	33.66	7.9	25.7	2.27
I25	27 Apr 2021	8	11.48	76.28	4.5	33.65	7.8	25.6	1.47
I25	27 Apr 2021	9	11.61	74.27	4.7	33.65	7.8	25.6	1.51
I26	01 Apr 2021	1	14.51	78.00	7.7	33.65	7.9	25.0	0.80
I26	01 Apr 2021	2	14.38	78.06	7.6	33.67	8.0	25.1	0.85
I26	01 Apr 2021	3	14.11	78.84	7.4	33.69	8.0	25.1	1.03
I26	01 Apr 2021	4	13.37	79.71	6.7	33.77	7.9	25.4	1.24
I26	01 Apr 2021	5	12.39	81.46	5.9	33.73	7.8	25.5	1.24
I26	01 Apr 2021	6	12.10	82.84	5.5	33.72	7.8	25.6	1.17
I26	01 Apr 2021	7	11.97	83.27	5.4	33.69	7.8	25.6	1.06
I26	01 Apr 2021	8	11.97	83.39	5.4	33.69	7.8	25.6	1.04
I26	01 Apr 2021	9	11.97	83.39	5.5	33.69	7.8	25.6	1.06
I26	06 Apr 2021	1	15.86	73.28	9.0	33.65	8.2	24.7	1.19
I26	06 Apr 2021	2	15.73	73.56	9.0	33.66	8.2	24.8	1.33
I26	06 Apr 2021	3	15.46	73.53	9.0	33.66	8.2	24.8	1.60
I26	06 Apr 2021	4	15.26	73.66	8.9	33.66	8.2	24.9	2.14
I26	06 Apr 2021	5	14.88	72.44	8.7	33.66	8.2	25.0	3.11
I26	06 Apr 2021	6	14.33	68.64	8.0	33.67	8.1	25.1	5.75
I26	06 Apr 2021	7	13.28	64.34	7.0	33.74	8.1	25.4	6.42
I26	06 Apr 2021	8	12.53	77.07	6.5	33.67	8.0	25.5	4.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (µg/L)
I26	06 Apr 2021	9	13.28	76.60	6.8	33.53	8.0	25.2	4.22
I26	15 Apr 2021	1	16.74	67.97	9.3	33.69	8.3	24.6	1.57
I26	15 Apr 2021	2	16.55	67.34	9.3	33.69	8.3	24.6	1.79
I26	15 Apr 2021	3	16.39	66.41	9.2	33.68	8.3	24.6	2.52
I26	15 Apr 2021	4	15.93	65.07	8.6	33.71	8.3	24.8	4.00
I26	15 Apr 2021	5	14.40	66.11	8.1	33.79	8.2	25.2	5.15
I26	15 Apr 2021	6	14.04	67.84	7.7	33.70	8.1	25.2	5.74
I26	15 Apr 2021	7	13.97	68.90	7.4	33.69	8.1	25.2	6.29
I26	15 Apr 2021	8	13.73	69.81	7.0	33.70	8.1	25.2	6.90
I26	15 Apr 2021	9	13.40	71.65	6.5	33.70	8.0	25.3	6.06
I26	20 Apr 2021	1	15.82	69.79	8.7	33.67	8.2	24.8	1.34
I26	20 Apr 2021	2	15.82	71.42	8.7	33.68	8.2	24.8	1.35
I26	20 Apr 2021	3	15.73	71.74	8.4	33.69	8.2	24.8	1.62
I26	20 Apr 2021	4	14.92	68.62	8.1	33.76	8.2	25.0	4.91
I26	20 Apr 2021	5	13.73	56.63	7.7	33.72	8.1	25.3	9.53
I26	20 Apr 2021	6	13.40	67.09	7.3	33.64	8.0	25.3	7.70
I26	20 Apr 2021	7	13.12	70.26	6.6	33.65	8.0	25.3	4.85
I26	20 Apr 2021	8	12.02	71.87	5.6	33.73	8.0	25.6	2.89
I26	20 Apr 2021	9	12.04	68.32	5.4	33.63	7.9	25.5	1.93
I26	27 Apr 2021	1	14.78	67.78	9.2	33.68	8.2	25.0	1.85
I26	27 Apr 2021	2	14.41	67.06	9.1	33.71	8.2	25.1	2.37
I26	27 Apr 2021	3	13.79	63.77	8.5	33.73	8.2	25.2	4.61
I26	27 Apr 2021	4	13.33	64.35	7.6	33.70	8.1	25.3	6.72
I26	27 Apr 2021	5	12.73	68.31	6.7	33.72	8.0	25.5	7.28
I26	27 Apr 2021	6	11.99	76.04	5.9	33.68	8.0	25.6	5.85
I26	27 Apr 2021	7	11.75	79.67	5.3	33.68	7.9	25.6	4.47
I26	27 Apr 2021	8	11.31	81.23	4.7	33.66	7.9	25.7	2.31
I26	27 Apr 2021	9	11.32	81.37	4.7	33.65	7.8	25.7	1.62
I32	01 Apr 2021	1	14.68	76.77	7.8	33.66	8.0	25.0	0.94
I32	01 Apr 2021	2	14.45	76.51	7.6	33.67	8.0	25.1	0.96
I32	01 Apr 2021	3	13.79	76.53	7.0	33.73	8.0	25.2	1.10
I32	01 Apr 2021	4	12.88	78.26	6.4	33.73	7.9	25.4	1.23
I32	01 Apr 2021	5	12.56	79.37	6.0	33.70	7.9	25.5	1.28
I32	01 Apr 2021	6	12.46	76.64	5.8	33.69	7.8	25.5	1.24
I32	01 Apr 2021	7	12.30	75.11	5.7	33.70	7.8	25.5	1.23
I32	01 Apr 2021	8	12.19	78.83	5.6	33.70	7.8	25.5	1.25
I32	01 Apr 2021	9	12.19	76.72	5.6	33.70	7.8	25.5	1.36
I32	01 Apr 2021	10	12.11	69.53	5.5	33.70	7.8	25.6	1.58
I32	06 Apr 2021	1	16.18	68.89	9.1	33.63	8.2	24.7	1.62
I32	06 Apr 2021	2	16.14	68.72	9.1	33.64	8.2	24.7	1.84
I32	06 Apr 2021	3	15.92	66.80	9.1	33.65	8.2	24.7	2.75
I32	06 Apr 2021	4	15.76	64.44	9.0	33.64	8.2	24.8	4.03
I32	06 Apr 2021	5	15.69	63.26	8.9	33.64	8.2	24.8	5.00
I32	06 Apr 2021	6	15.58	60.35	8.6	33.65	8.2	24.8	5.66
I32	06 Apr 2021	7	15.40	59.82	8.0	33.66	8.1	24.8	5.78
I32	06 Apr 2021	8	14.11	56.62	7.0	33.77	8.1	25.2	5.26
I32	06 Apr 2021	9	12.88	41.20	6.8	33.61	7.9	25.3	5.14
I32	15 Apr 2021	1	16.36	62.81	8.1	33.69	8.2	24.7	1.53
I32	15 Apr 2021	2	16.06	61.62	7.9	33.71	8.2	24.7	2.19
I32	15 Apr 2021	3	15.34	58.68	7.8	33.73	8.2	24.9	6.79
I32	15 Apr 2021	4	15.02	55.90	7.4	33.70	8.2	25.0	9.68
I32	15 Apr 2021	5	14.36	58.79	6.8	33.74	8.1	25.1	8.63
I32	15 Apr 2021	6	13.86	64.84	6.3	33.71	8.0	25.2	7.77
I32	15 Apr 2021	7	13.67	64.38	5.9	33.69	8.0	25.2	6.50
I32	15 Apr 2021	8	13.61	65.05	5.8	33.68	8.0	25.2	5.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I32	15 Apr 2021	9	13.45	63.90	5.9	33.69	7.9	25.3	4.76
I32	15 Apr 2021	10	13.33	58.52	6.0	33.68	7.9	25.3	4.42
I32	20 Apr 2021	1	15.46	60.08	8.8	33.67	8.2	24.8	3.09
I32	20 Apr 2021	2	15.46	60.64	8.8	33.67	8.2	24.8	3.19
I32	20 Apr 2021	3	15.44	60.22	8.8	33.68	8.2	24.9	3.97
I32	20 Apr 2021	4	15.30	59.24	8.7	33.68	8.2	24.9	6.54
I32	20 Apr 2021	5	15.27	58.99	8.7	33.68	8.2	24.9	7.82
I32	20 Apr 2021	6	15.24	58.76	8.6	33.67	8.2	24.9	8.40
I32	20 Apr 2021	7	15.03	58.23	8.1	33.70	8.1	25.0	8.72
I32	20 Apr 2021	8	14.23	57.28	7.6	33.69	8.1	25.1	10.20
I32	20 Apr 2021	9	13.67	41.66	7.2	33.66	8.0	25.2	8.74
I32	20 Apr 2021	10	14.18	14.54	7.4	33.66	8.1	25.1	8.89
I32	27 Apr 2021	1	14.62	69.43	8.6	33.68	8.2	25.0	1.14
I32	27 Apr 2021	2	14.60	69.41	8.6	33.68	8.2	25.0	1.20
I32	27 Apr 2021	3	14.40	67.53	8.5	33.69	8.2	25.1	1.44
I32	27 Apr 2021	4	14.12	67.94	8.6	33.68	8.2	25.1	1.80
I32	27 Apr 2021	5	13.80	64.76	7.5	33.73	8.2	25.2	2.25
I32	27 Apr 2021	6	11.62	64.92	5.1	33.75	7.9	25.7	3.33
I32	27 Apr 2021	7	11.40	68.36	4.6	33.66	7.8	25.7	4.77
I32	27 Apr 2021	8	11.39	66.18	4.5	33.65	7.8	25.7	4.63
I32	27 Apr 2021	9	11.35	62.96	4.4	33.65	7.8	25.7	3.92
I32	27 Apr 2021	10	11.39	61.37	4.4	33.65	7.8	25.7	3.73
I39	01 Apr 2021	1	14.70	80.63	8.0	33.68	8.0	25.0	0.90
I39	01 Apr 2021	2	14.45	80.59	7.9	33.71	8.0	25.1	0.96
I39	01 Apr 2021	3	14.26	79.91	7.8	33.69	8.0	25.1	1.14
I39	01 Apr 2021	4	14.12	79.60	7.8	33.68	8.0	25.1	1.42
I39	01 Apr 2021	5	14.07	79.22	7.8	33.67	8.0	25.1	1.72
I39	01 Apr 2021	6	14.01	78.94	7.7	33.66	8.0	25.1	2.17
I39	01 Apr 2021	7	13.99	78.60	7.6	33.65	8.0	25.1	2.84
I39	01 Apr 2021	8	13.98	78.67	7.6	33.65	8.0	25.1	3.45
I39	01 Apr 2021	9	13.93	78.66	7.6	33.65	8.0	25.2	3.62
I39	01 Apr 2021	10	13.84	79.38	7.4	33.66	8.0	25.2	3.66
I39	01 Apr 2021	11	13.61	80.24	7.1	33.68	8.0	25.2	3.29
I39	01 Apr 2021	12	13.16	80.72	6.6	33.69	7.9	25.3	3.01
I39	01 Apr 2021	13	12.95	81.94	6.4	33.68	7.9	25.4	2.92
I39	01 Apr 2021	14	12.70	82.74	6.1	33.67	7.9	25.4	2.59
I39	01 Apr 2021	15	12.28	83.13	5.7	33.72	7.8	25.5	2.23
I39	01 Apr 2021	16	11.81	83.94	5.3	33.71	7.8	25.6	1.82
I39	01 Apr 2021	17	11.56	84.71	5.0	33.73	7.8	25.7	1.62
I39	01 Apr 2021	18	11.38	84.93	4.8	33.73	7.7	25.7	1.47
I39	06 Apr 2021	1	15.57	74.27	9.1	33.65	8.2	24.8	1.31
I39	06 Apr 2021	2	15.42	74.23	9.0	33.65	8.2	24.8	1.45
I39	06 Apr 2021	3	15.00	74.22	8.6	33.67	8.2	24.9	1.86
I39	06 Apr 2021	4	14.02	73.77	7.7	33.74	8.1	25.2	2.50
I39	06 Apr 2021	5	13.20	75.06	7.1	33.68	8.0	25.3	2.81
I39	06 Apr 2021	6	13.11	76.99	7.0	33.66	8.0	25.3	3.33
I39	06 Apr 2021	7	13.02	78.26	6.9	33.65	8.0	25.3	3.54
I39	06 Apr 2021	8	12.94	78.56	6.7	33.66	8.0	25.4	3.70
I39	06 Apr 2021	9	12.79	79.33	6.5	33.66	8.0	25.4	4.18
I39	06 Apr 2021	10	12.66	79.77	6.3	33.66	8.0	25.4	3.81
I39	06 Apr 2021	11	12.44	80.54	6.0	33.69	7.9	25.5	3.28
I39	06 Apr 2021	12	12.22	82.12	5.6	33.68	7.9	25.5	2.54
I39	06 Apr 2021	13	11.90	82.62	5.2	33.70	7.9	25.6	2.10
I39	06 Apr 2021	14	11.71	82.57	4.9	33.70	7.8	25.6	1.55
I39	06 Apr 2021	15	11.63	82.60	4.8	33.70	7.8	25.7	1.75
I39	06 Apr 2021	16	11.61	82.66	4.7	33.70	7.8	25.7	1.64
I39	06 Apr 2021	17	11.61	82.51	4.7	33.70	7.8	25.7	1.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I39	06 Apr 2021	18	11.61	82.29	4.7	33.70	7.8	25.7	1.33
I39	15 Apr 2021	1	16.14	73.01	9.3	33.69	8.3	24.7	1.51
I39	15 Apr 2021	2	16.08	73.34	9.3	33.69	8.3	24.7	1.65
I39	15 Apr 2021	3	16.03	73.33	9.3	33.69	8.3	24.7	1.95
I39	15 Apr 2021	4	15.96	73.10	9.3	33.69	8.2	24.8	2.41
I39	15 Apr 2021	5	15.92	72.86	9.3	33.69	8.2	24.8	2.81
I39	15 Apr 2021	6	15.91	72.65	9.3	33.69	8.2	24.8	3.19
I39	15 Apr 2021	7	15.87	72.58	9.3	33.68	8.2	24.8	3.70
I39	15 Apr 2021	8	15.85	72.39	9.3	33.68	8.2	24.8	4.12
I39	15 Apr 2021	9	15.84	72.25	9.3	33.68	8.2	24.8	4.37
I39	15 Apr 2021	10	15.82	72.26	9.3	33.68	8.2	24.8	4.51
I39	15 Apr 2021	11	15.80	72.18	9.3	33.68	8.2	24.8	4.67
I39	15 Apr 2021	12	15.78	72.24	9.1	33.68	8.2	24.8	4.86
I39	15 Apr 2021	13	15.38	72.09	8.8	33.71	8.2	24.9	5.97
I39	15 Apr 2021	14	14.44	71.90	8.5	33.69	8.2	25.1	7.13
I39	15 Apr 2021	15	14.15	69.84	8.4	33.65	8.2	25.1	7.55
I39	15 Apr 2021	16	13.84	69.10	8.2	33.66	8.1	25.2	7.55
I39	15 Apr 2021	17	13.62	69.24	7.3	33.67	8.1	25.2	7.28
I39	15 Apr 2021	18	12.19	70.79	5.8	33.75	8.0	25.6	5.07
I39	20 Apr 2021	1	15.01	71.35	8.1	33.63	8.1	24.9	1.75
I39	20 Apr 2021	2	15.00	74.89	8.1	33.67	8.1	24.9	1.97
I39	20 Apr 2021	3	14.81	75.09	7.8	33.69	8.1	25.0	2.19
I39	20 Apr 2021	4	14.18	76.57	7.3	33.68	8.1	25.1	2.48
I39	20 Apr 2021	5	12.80	79.53	6.4	33.75	8.1	25.5	2.35
I39	20 Apr 2021	6	12.15	82.93	5.7	33.68	8.0	25.5	1.85
I39	20 Apr 2021	7	11.95	83.74	5.5	33.66	7.9	25.6	1.58
I39	20 Apr 2021	8	11.76	83.62	5.6	33.65	7.9	25.6	1.67
I39	20 Apr 2021	9	11.65	83.51	5.5	33.65	7.9	25.6	1.79
I39	20 Apr 2021	10	11.52	84.03	5.4	33.65	7.9	25.6	1.85
I39	20 Apr 2021	11	11.25	83.88	5.1	33.69	7.9	25.7	1.83
I39	20 Apr 2021	12	11.02	83.33	4.8	33.70	7.8	25.8	1.39
I39	20 Apr 2021	13	10.99	82.76	4.6	33.70	7.8	25.8	1.15
I39	20 Apr 2021	14	11.01	82.84	4.6	33.70	7.8	25.8	1.10
I39	20 Apr 2021	15	10.97	83.04	4.7	33.70	7.8	25.8	0.96
I39	20 Apr 2021	16	10.91	83.05	4.7	33.71	7.8	25.8	0.87
I39	20 Apr 2021	17	10.86	83.17	4.7	33.71	7.8	25.8	0.77
I39	20 Apr 2021	18	10.80	80.65	4.7	33.73	7.8	25.8	0.73
I39	27 Apr 2021	1	14.35	76.19	7.5	33.70	8.1	25.1	0.90
I39	27 Apr 2021	2	13.95	77.11	7.4	33.73	8.1	25.2	1.09
I39	27 Apr 2021	3	13.67	74.43	7.5	33.70	8.1	25.2	1.65
I39	27 Apr 2021	4	13.64	73.18	7.6	33.69	8.1	25.2	2.18
I39	27 Apr 2021	5	13.62	72.65	7.6	33.69	8.1	25.3	2.71
I39	27 Apr 2021	6	13.60	72.46	7.6	33.69	8.1	25.3	3.56
I39	27 Apr 2021	7	13.58	71.43	7.6	33.69	8.1	25.3	4.39
I39	27 Apr 2021	8	13.56	71.01	7.7	33.69	8.1	25.3	4.84
I39	27 Apr 2021	9	13.53	71.32	7.6	33.69	8.1	25.3	5.26
I39	27 Apr 2021	10	13.52	71.49	7.6	33.69	8.1	25.3	5.72
I39	27 Apr 2021	11	13.53	71.13	7.6	33.69	8.1	25.3	6.18
I39	27 Apr 2021	12	13.50	70.44	7.6	33.69	8.1	25.3	7.16
I39	27 Apr 2021	13	13.37	69.84	7.4	33.69	8.1	25.3	8.36
I39	27 Apr 2021	14	13.13	68.26	7.3	33.68	8.1	25.3	9.83
I39	27 Apr 2021	15	12.82	66.93	6.7	33.71	8.0	25.4	10.15
I39	27 Apr 2021	16	11.89	73.36	5.7	33.72	8.0	25.6	7.73
I39	27 Apr 2021	17	11.08	81.45	5.0	33.72	7.9	25.8	4.39
I39	27 Apr 2021	18	10.82	85.08	4.7	33.70	7.9	25.8	2.42
I40	01 Apr 2021	1	14.32	55.74	7.4	33.14	7.9	24.7	1.00
I40	01 Apr 2021	2	13.81	64.44	7.2	33.59	7.9	25.1	1.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I40	01 Apr 2021	3	13.67	70.92	7.1	33.63	7.9	25.2	1.44
I40	01 Apr 2021	4	13.48	72.46	6.9	33.64	7.9	25.2	1.80
I40	01 Apr 2021	5	12.93	74.35	6.3	33.71	7.9	25.4	1.92
I40	01 Apr 2021	6	12.24	80.90	5.6	33.73	7.8	25.6	1.72
I40	01 Apr 2021	7	12.00	81.27	5.3	33.70	7.8	25.6	1.48
I40	01 Apr 2021	8	11.98	77.67	5.2	33.70	7.8	25.6	1.79
I40	01 Apr 2021	9	11.98	65.10	5.2	33.70	7.8	25.6	2.50
I40	01 Apr 2021	10	12.00	58.92	5.2	33.70	7.8	25.6	2.74
I40	06 Apr 2021	1	15.50	61.20	8.2	33.42	8.1	24.6	2.10
I40	06 Apr 2021	2	15.06	59.04	8.2	33.45	8.1	24.8	2.92
I40	06 Apr 2021	3	14.92	56.27	8.2	33.45	8.1	24.8	4.32
I40	06 Apr 2021	4	14.87	60.38	8.1	33.46	8.1	24.8	5.17
I40	06 Apr 2021	5	14.70	63.10	7.8	33.49	8.1	24.9	5.09
I40	06 Apr 2021	6	14.12	62.83	7.5	33.60	8.0	25.1	4.51
I40	06 Apr 2021	7	13.73	57.85	7.2	33.64	8.0	25.2	3.92
I40	06 Apr 2021	8	13.47	62.44	6.6	33.64	8.0	25.2	3.54
I40	06 Apr 2021	9	12.94	44.63	6.0	33.67	7.9	25.4	4.14
I40	15 Apr 2021	1	16.49	56.33	8.4	33.46	8.2	24.5	3.23
I40	15 Apr 2021	2	16.36	56.04	8.1	33.56	8.2	24.6	4.46
I40	15 Apr 2021	3	15.96	59.35	7.5	33.67	8.2	24.7	5.40
I40	15 Apr 2021	4	14.96	65.05	6.8	33.74	8.1	25.0	6.34
I40	15 Apr 2021	5	14.04	68.45	6.3	33.75	8.0	25.2	6.39
I40	15 Apr 2021	6	13.62	70.61	6.0	33.71	8.0	25.3	5.20
I40	15 Apr 2021	7	13.30	72.19	5.8	33.70	7.9	25.3	4.71
I40	15 Apr 2021	8	13.26	71.30	5.8	33.69	7.9	25.3	4.13
I40	15 Apr 2021	9	13.20	61.23	5.7	33.69	7.9	25.3	3.94
I40	15 Apr 2021	10	13.17	47.41	5.7	33.69	7.9	25.3	4.15
I40	20 Apr 2021	1	15.48	69.74	8.6	33.67	8.2	24.8	1.75
I40	20 Apr 2021	2	15.45	69.43	8.6	33.67	8.2	24.8	1.98
I40	20 Apr 2021	3	15.33	68.34	8.5	33.69	8.2	24.9	2.47
I40	20 Apr 2021	4	14.80	62.92	8.4	33.67	8.2	25.0	4.29
I40	20 Apr 2021	5	14.42	59.61	8.0	33.70	8.1	25.1	5.70
I40	20 Apr 2021	6	13.12	60.48	7.3	33.70	8.0	25.4	5.88
I40	20 Apr 2021	7	12.39	59.98	6.3	33.67	7.9	25.5	4.80
I40	20 Apr 2021	8	11.96	49.66	5.3	33.67	7.9	25.6	5.10
I40	20 Apr 2021	9	11.59	48.86	4.7	33.66	7.8	25.6	4.96
I40	20 Apr 2021	10	11.80	21.34	4.9	33.59	7.8	25.5	5.39
I40	27 Apr 2021	1	14.18	69.16	7.9	33.67	8.1	25.1	1.38
I40	27 Apr 2021	2	13.92	67.82	7.8	33.69	8.1	25.2	1.54
I40	27 Apr 2021	3	13.49	67.26	7.6	33.68	8.1	25.3	2.13
I40	27 Apr 2021	4	13.41	66.97	7.3	33.67	8.1	25.3	2.79
I40	27 Apr 2021	5	12.40	68.03	6.2	33.77	8.0	25.6	3.50
I40	27 Apr 2021	6	11.66	67.36	5.1	33.66	7.9	25.6	3.20
I40	27 Apr 2021	7	11.35	71.75	4.7	33.69	7.9	25.7	2.66
I40	27 Apr 2021	8	11.15	66.86	4.4	33.67	7.8	25.7	2.27
I40	27 Apr 2021	9	11.15	60.17	4.4	33.66	7.8	25.7	2.42
I40	27 Apr 2021	10	11.16	41.43	4.4	33.66	7.8	25.7	2.94

NA = not available

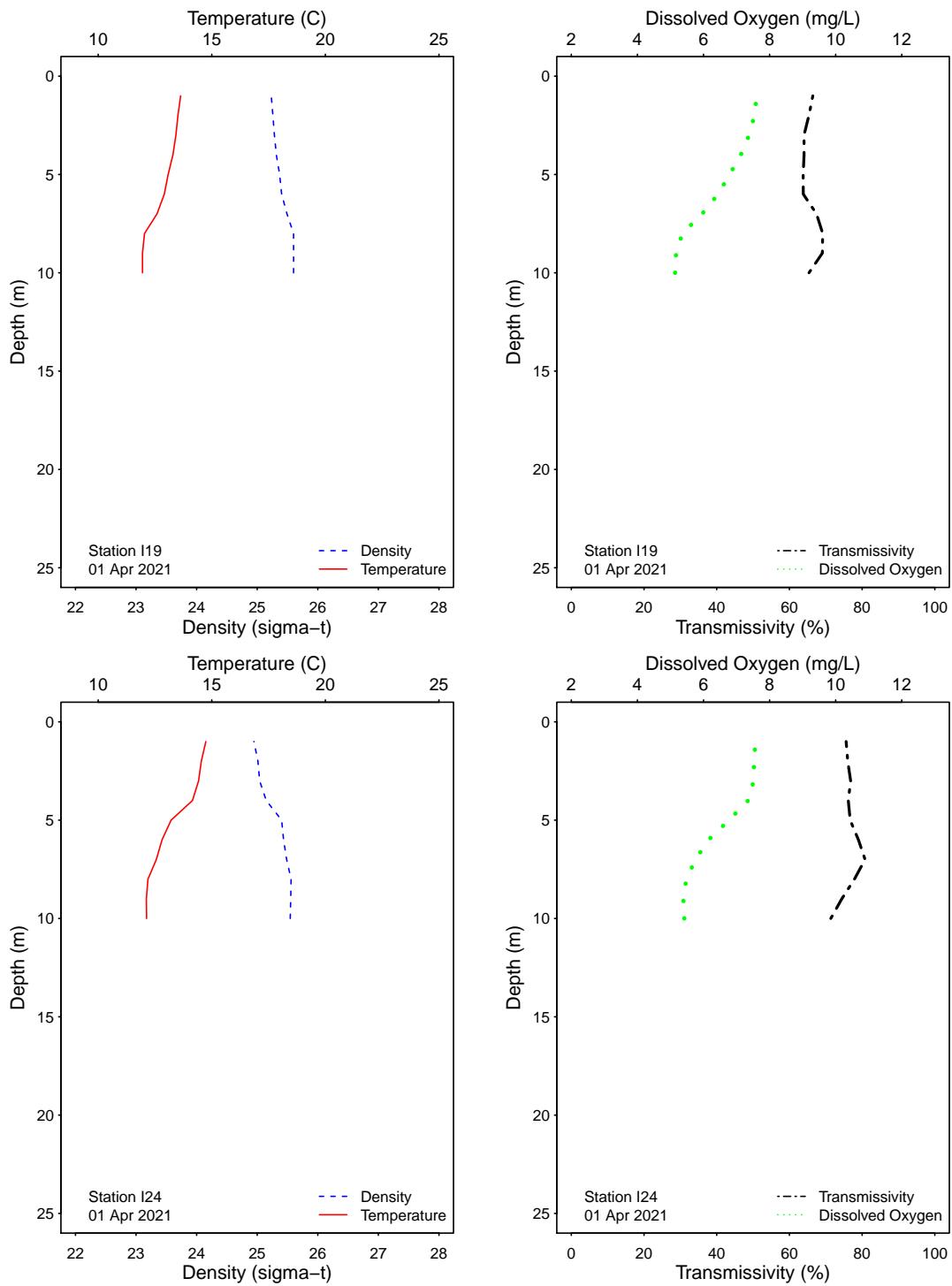


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

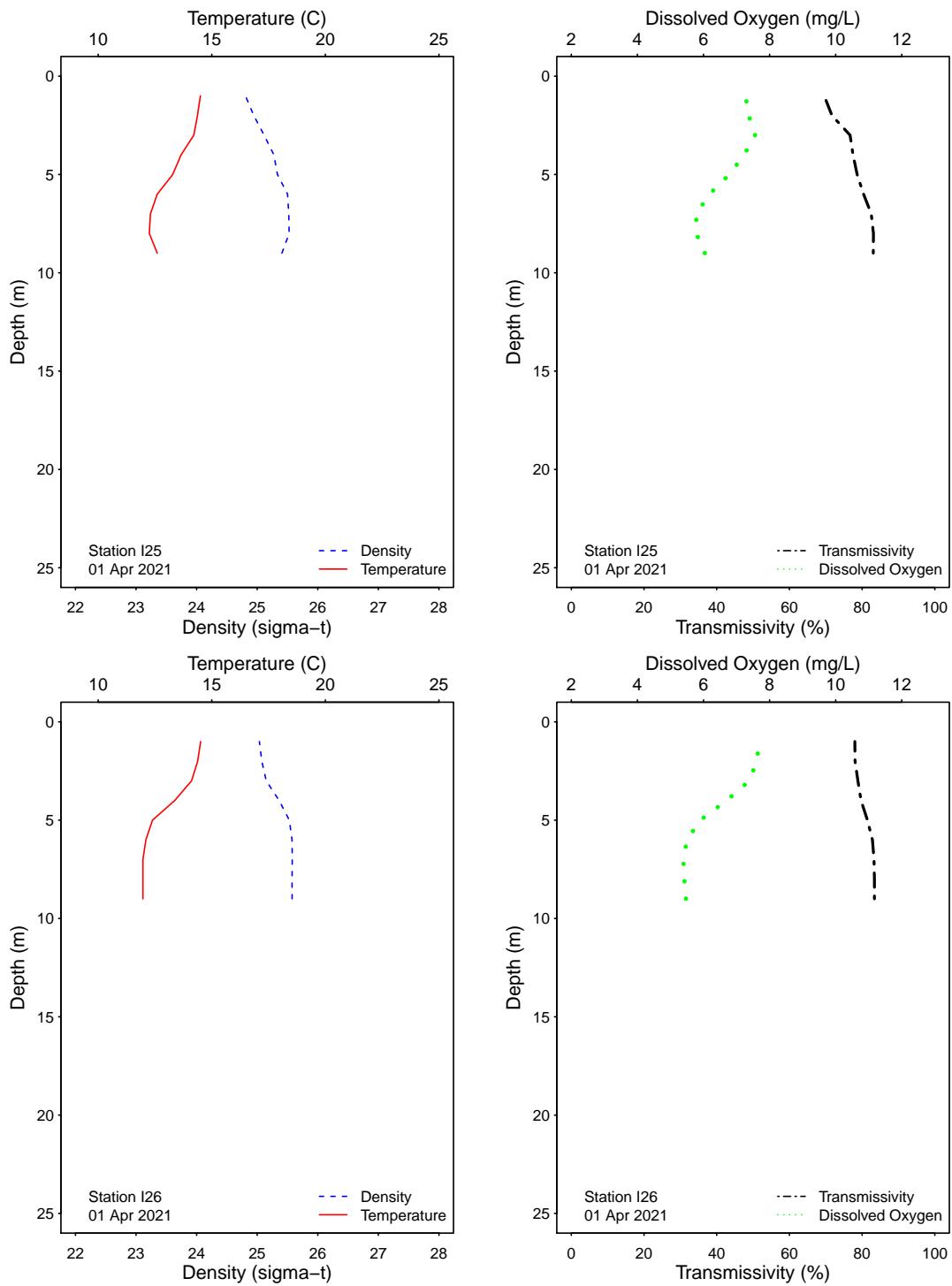


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

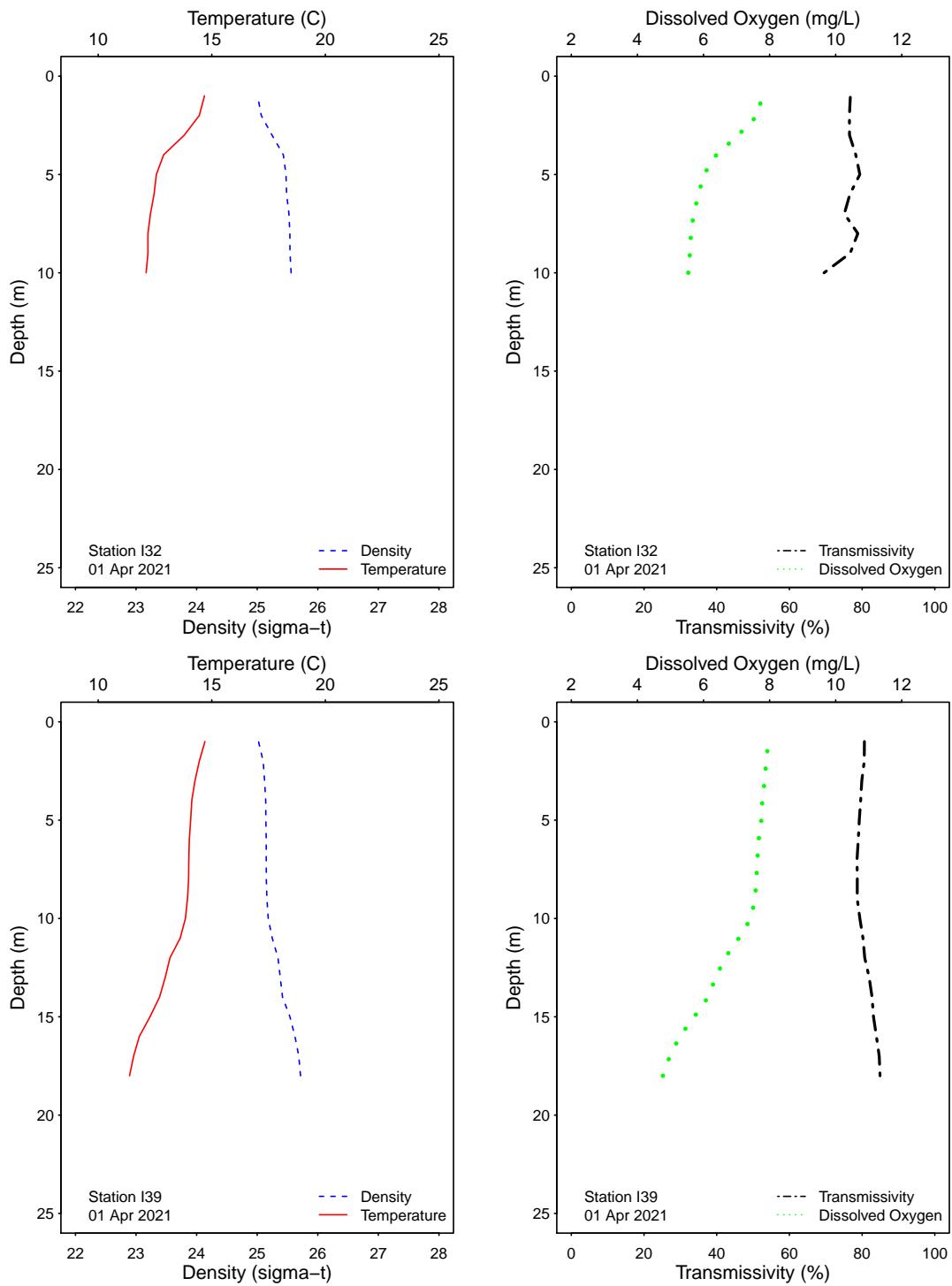


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

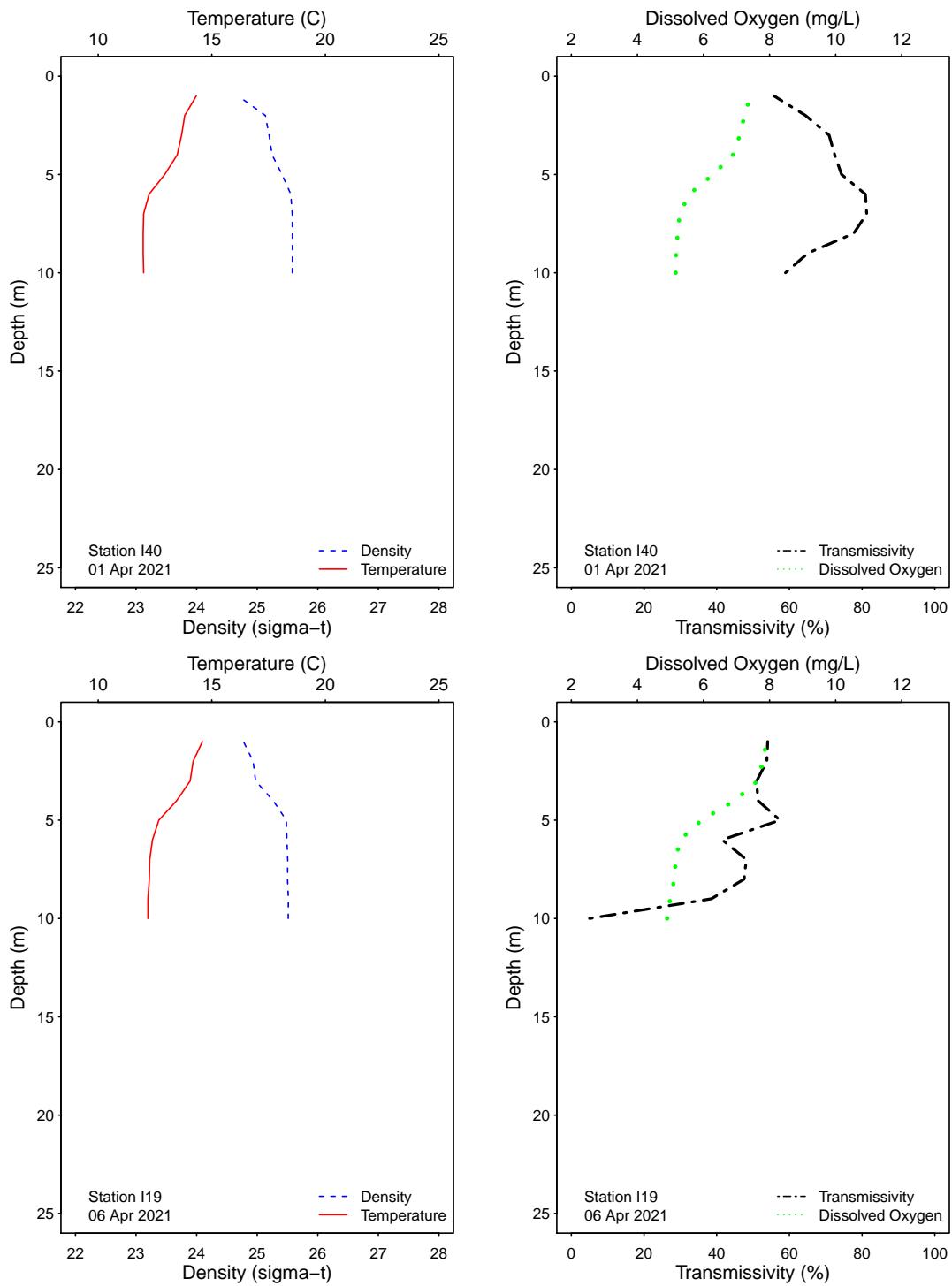


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

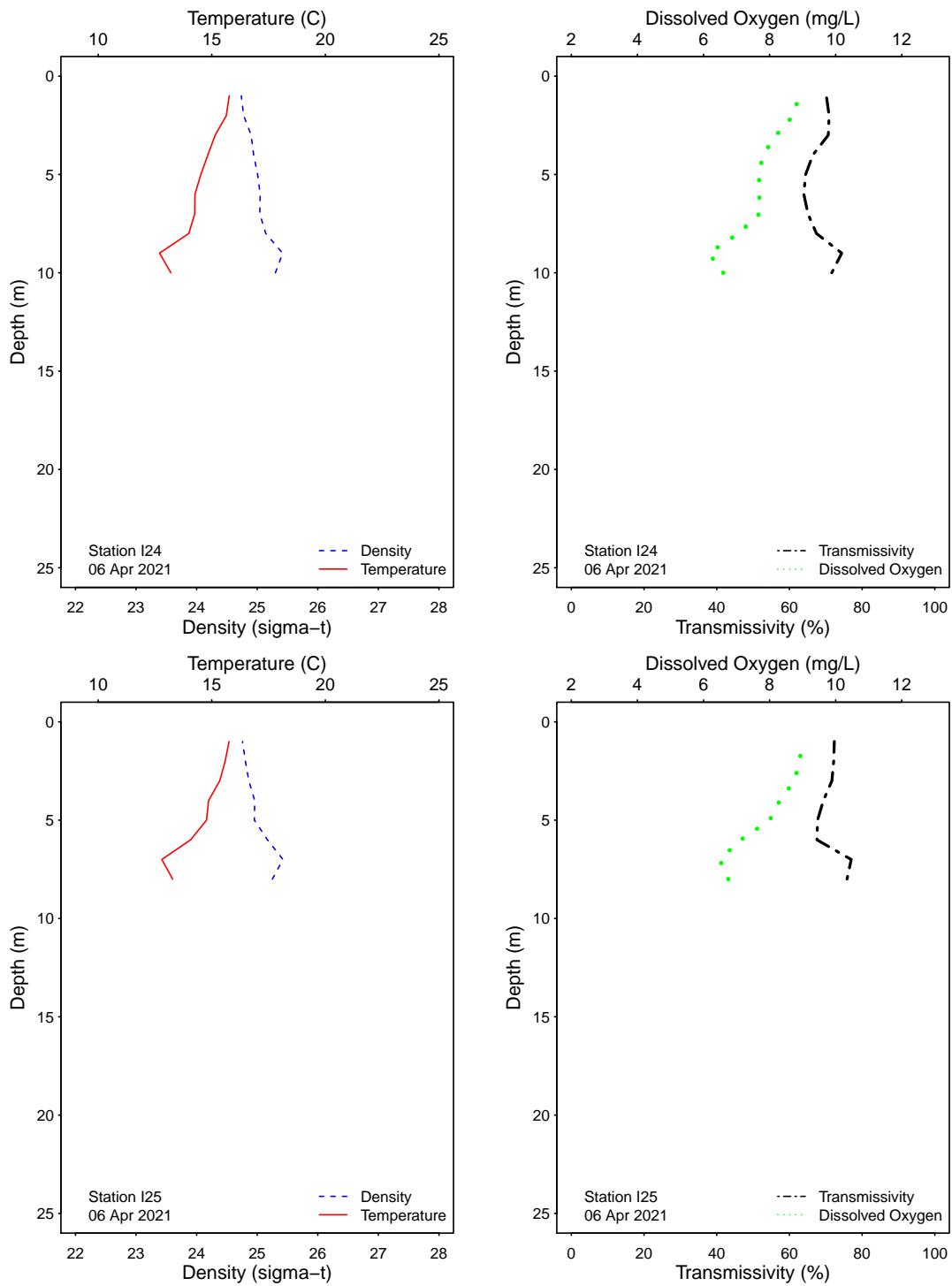


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

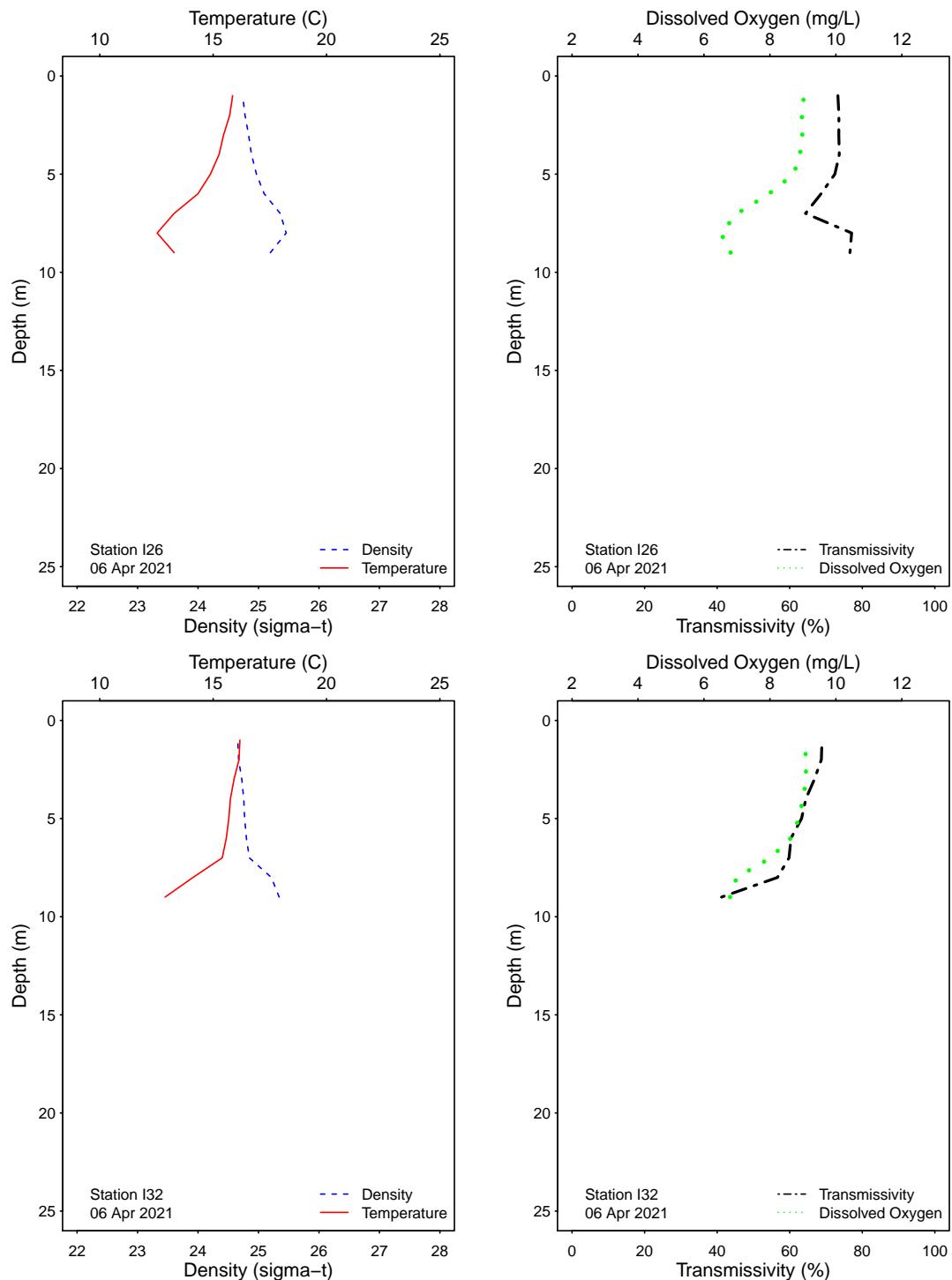


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

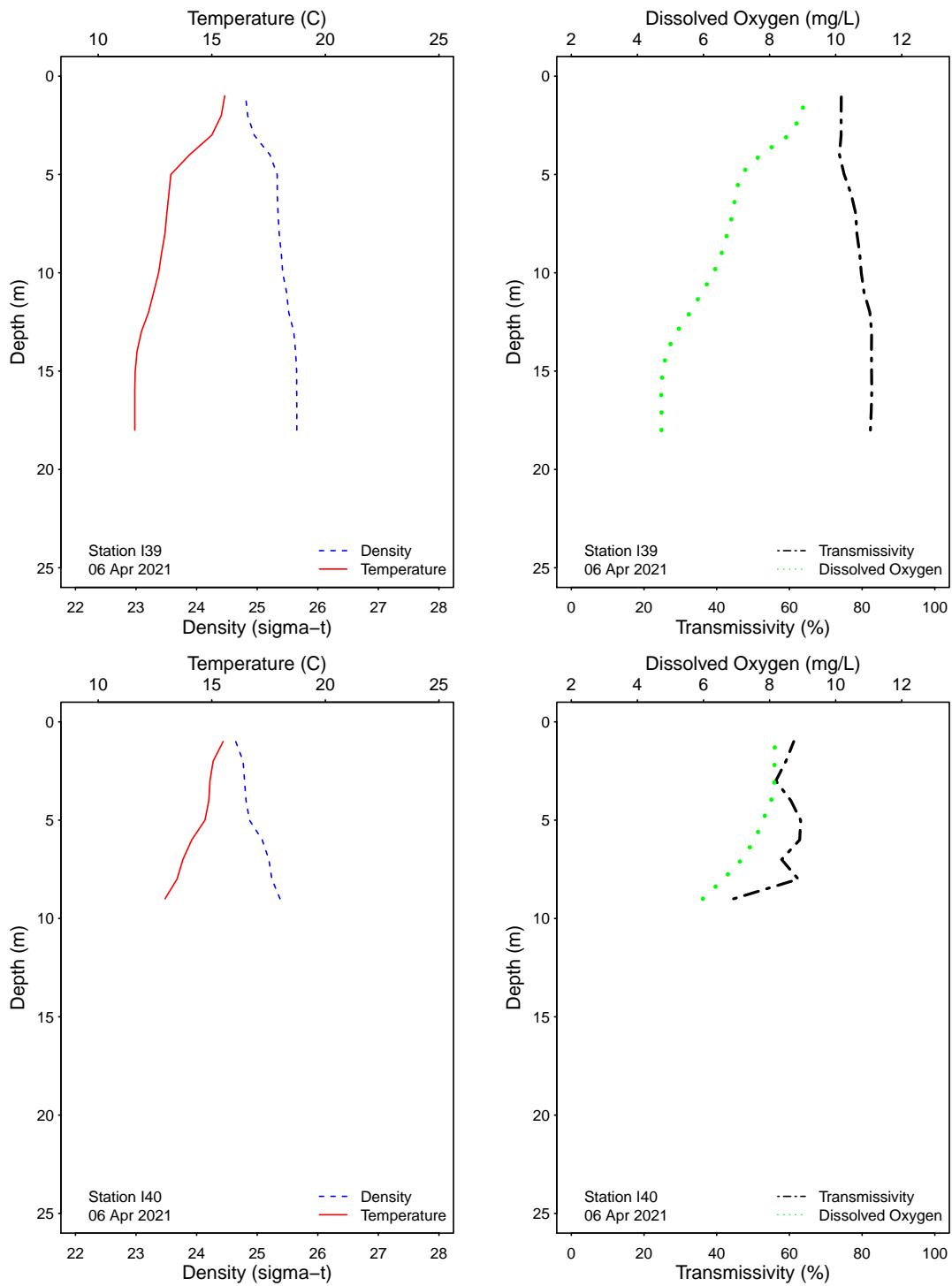


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

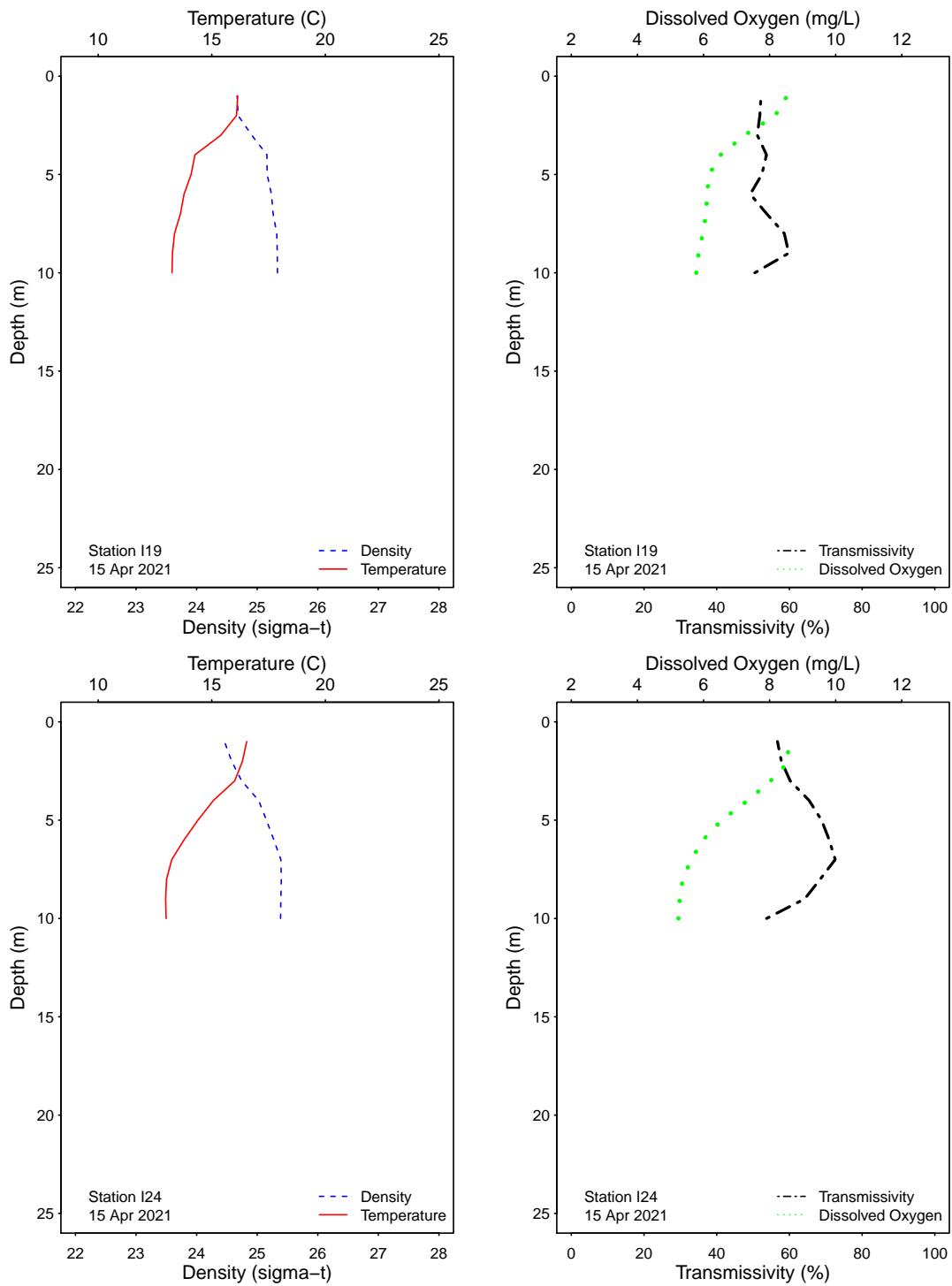


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

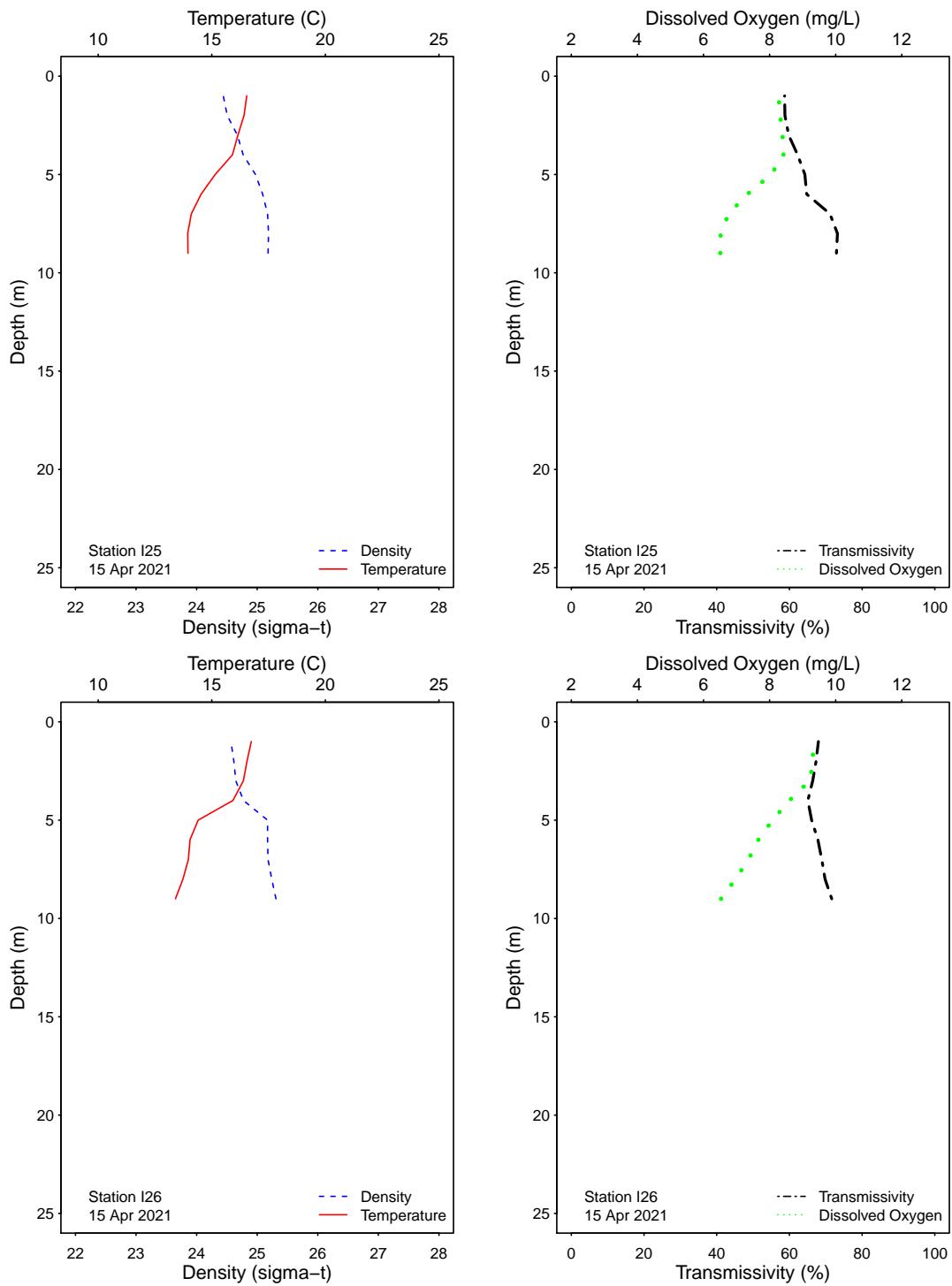


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

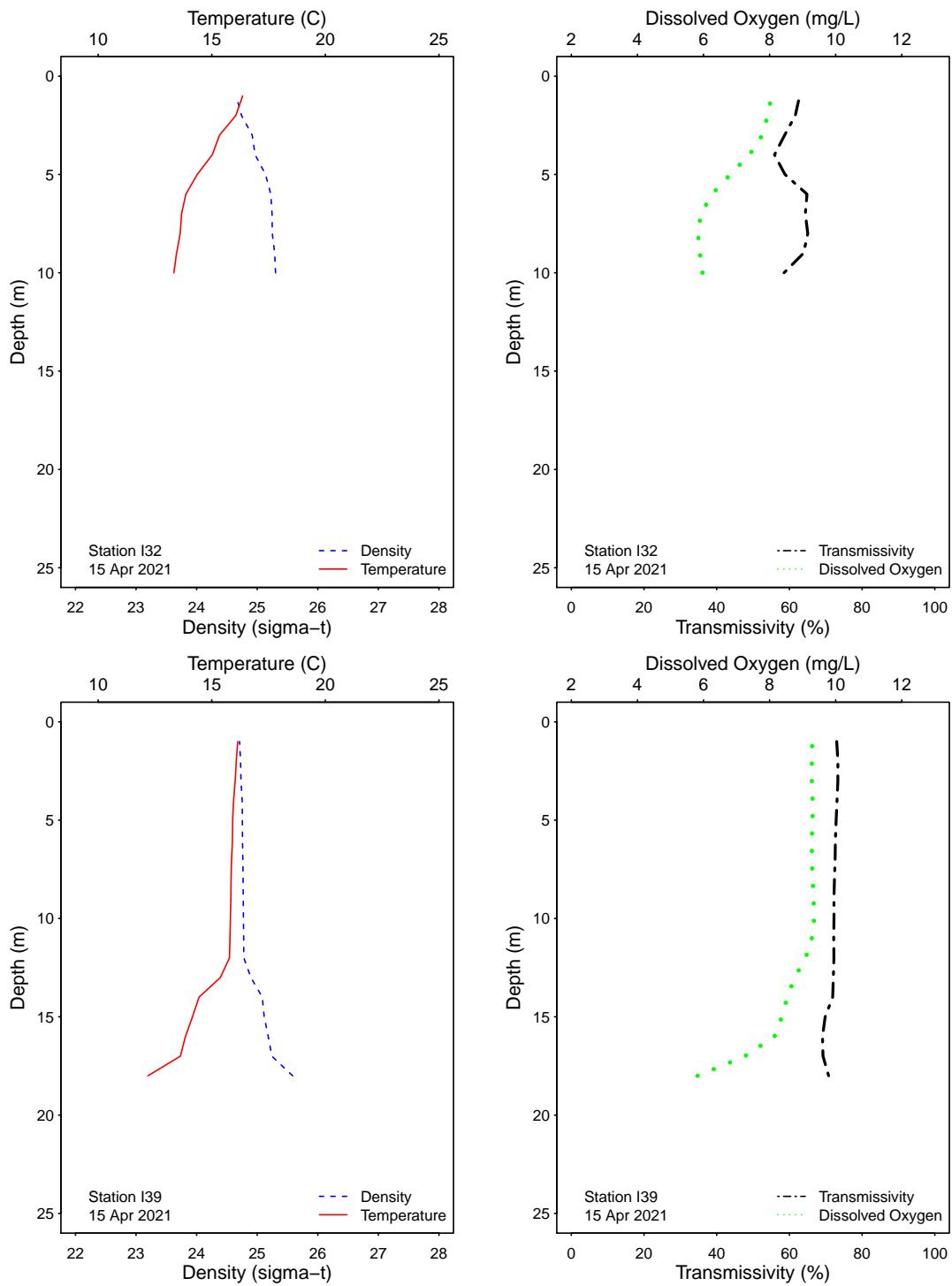


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

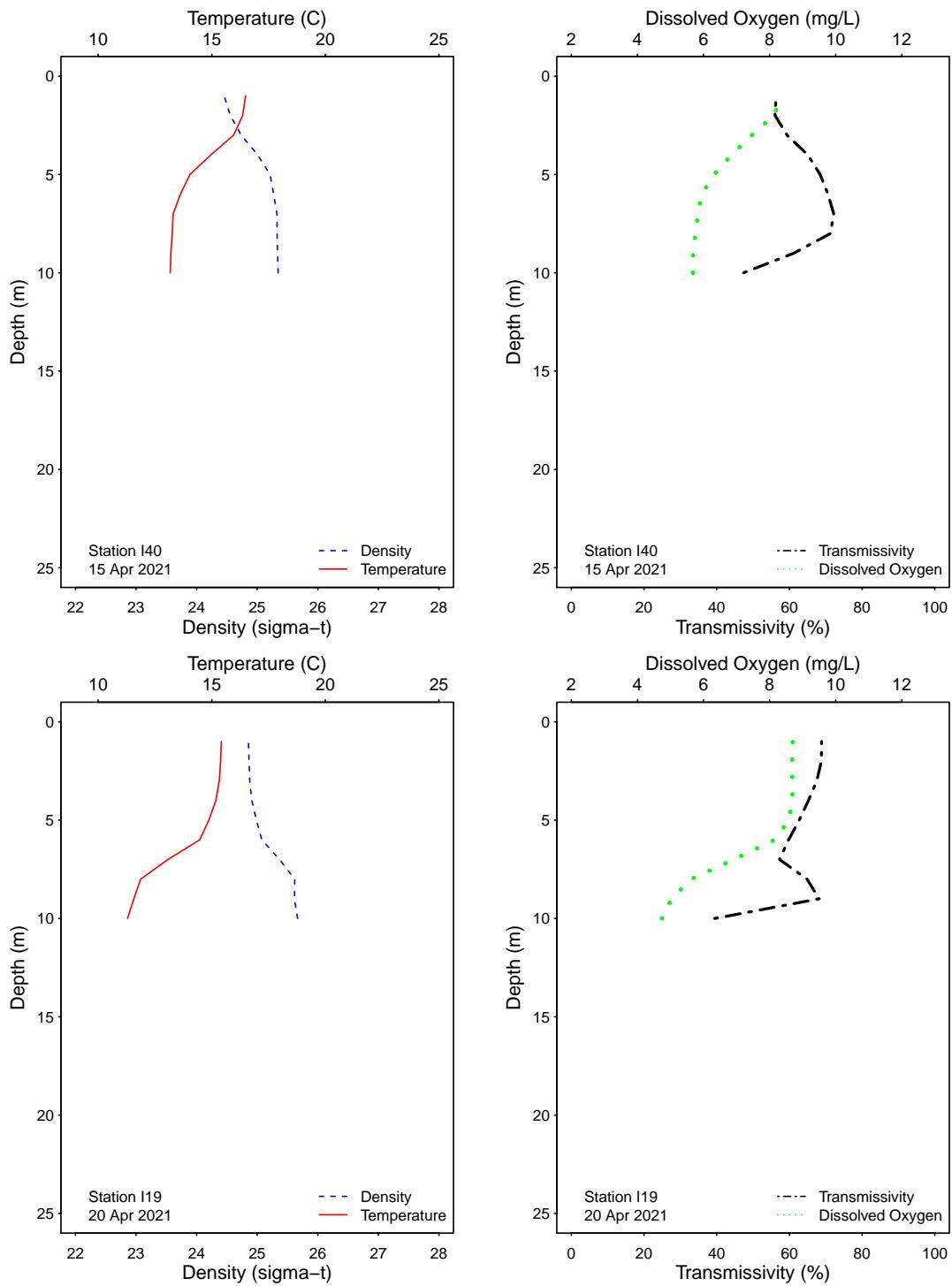


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

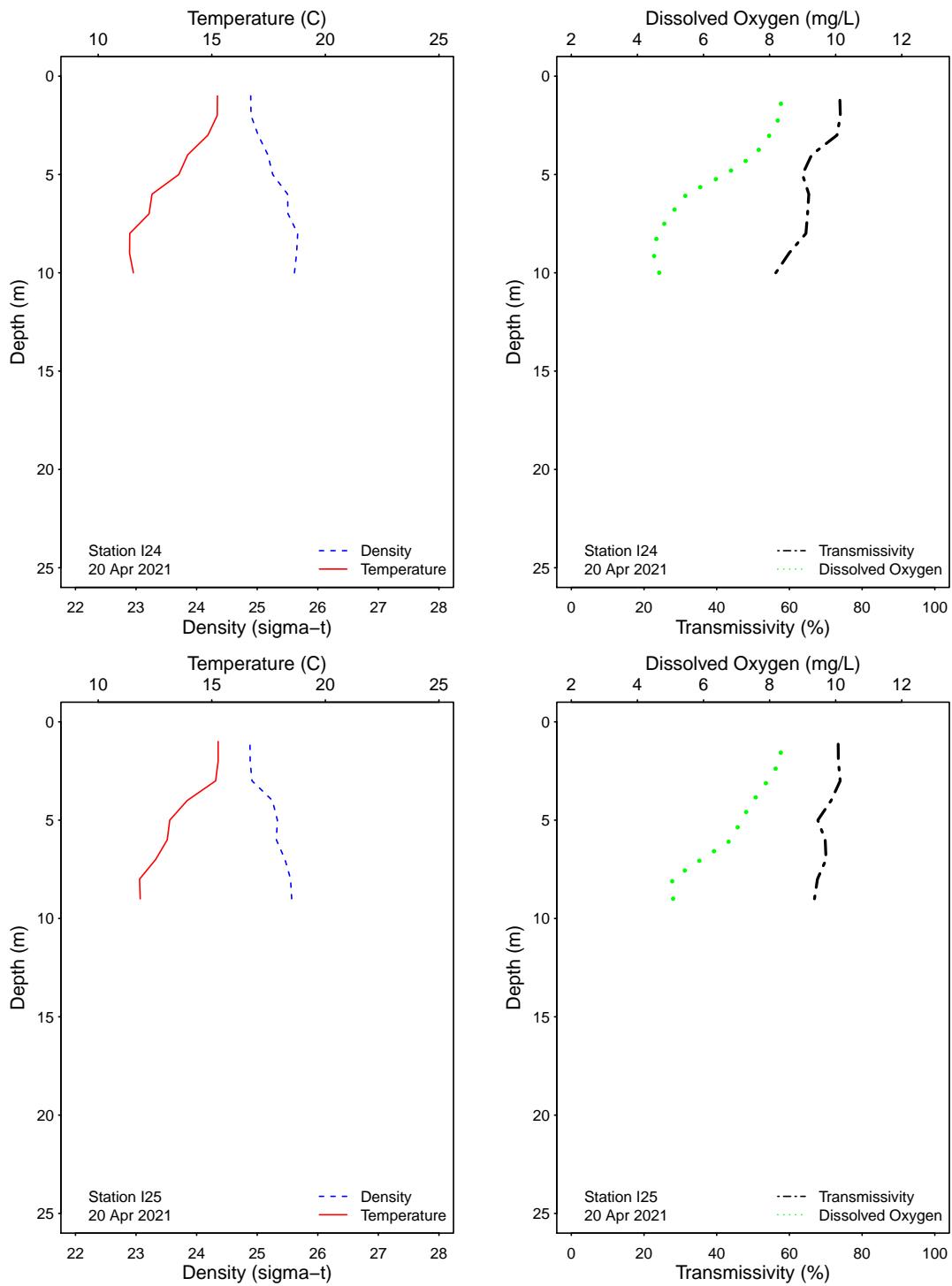


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

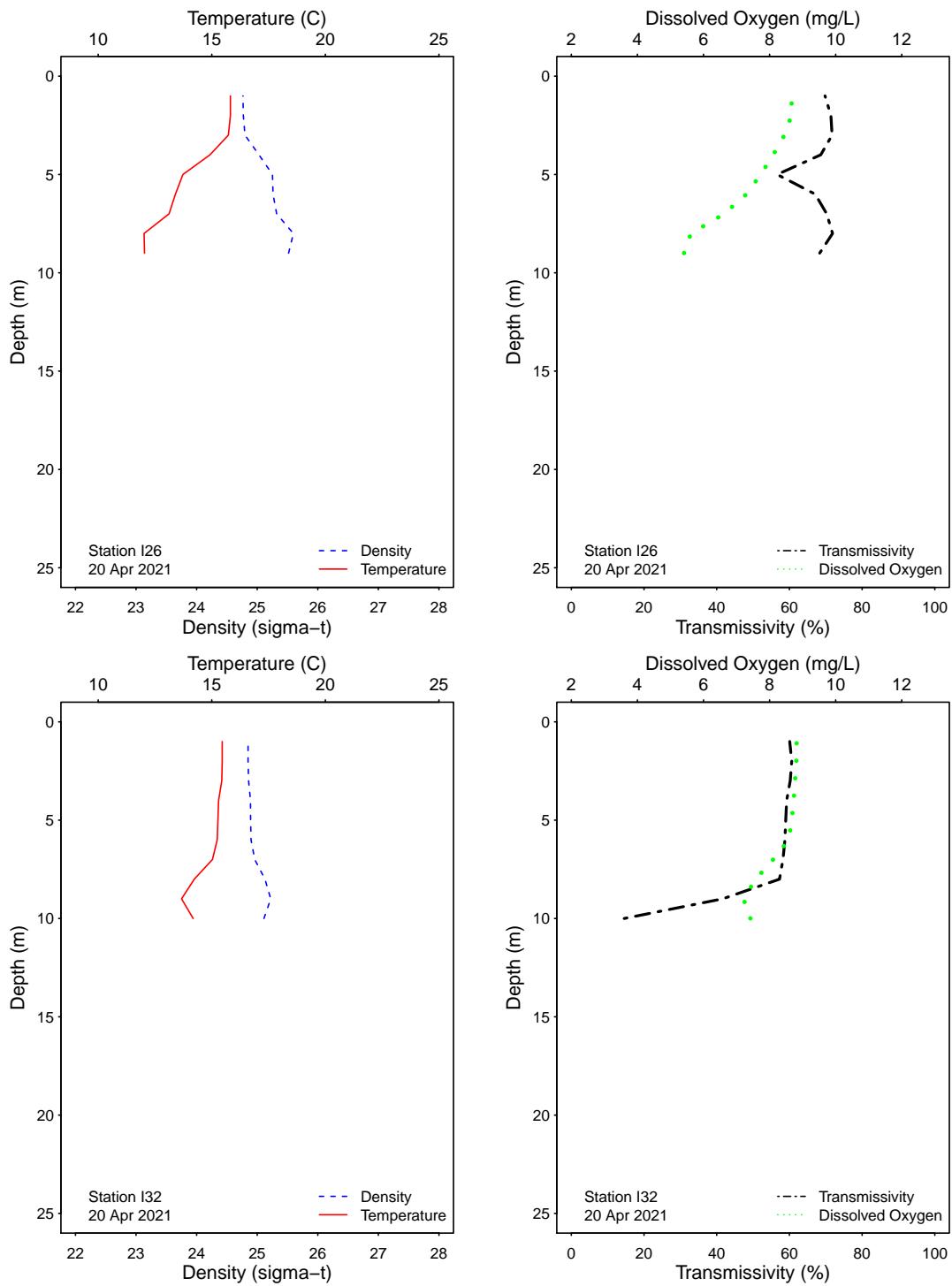


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

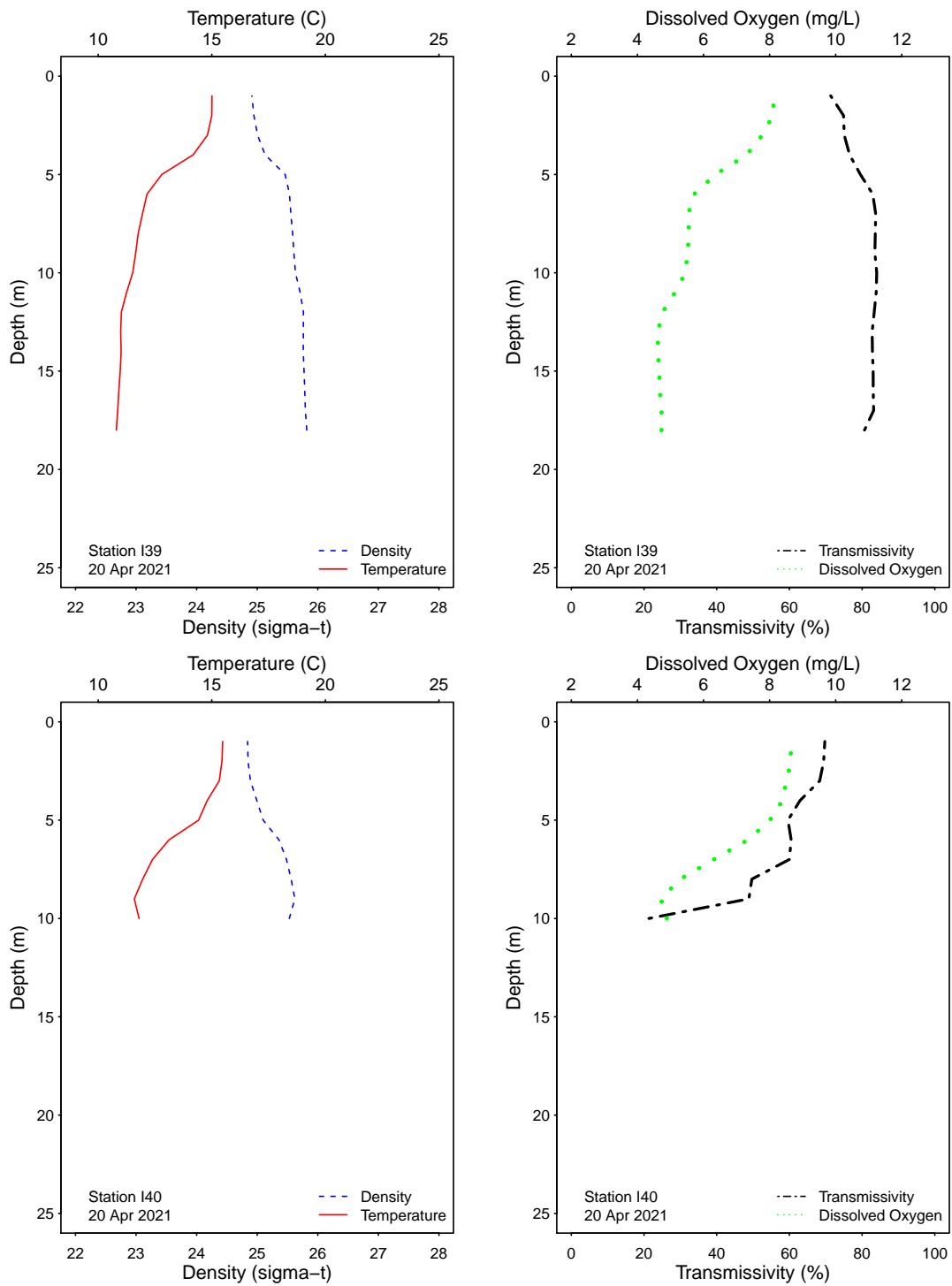


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

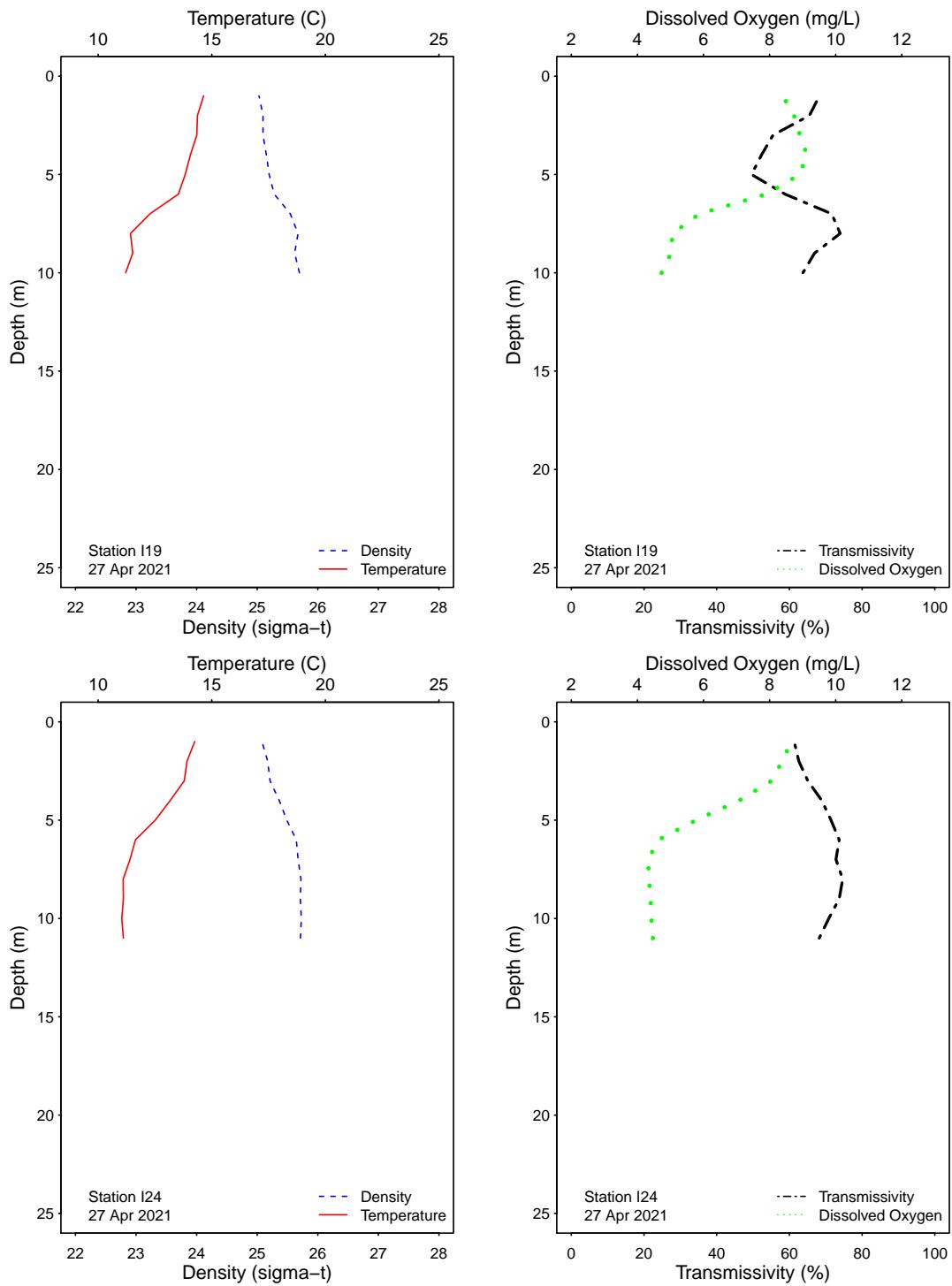


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

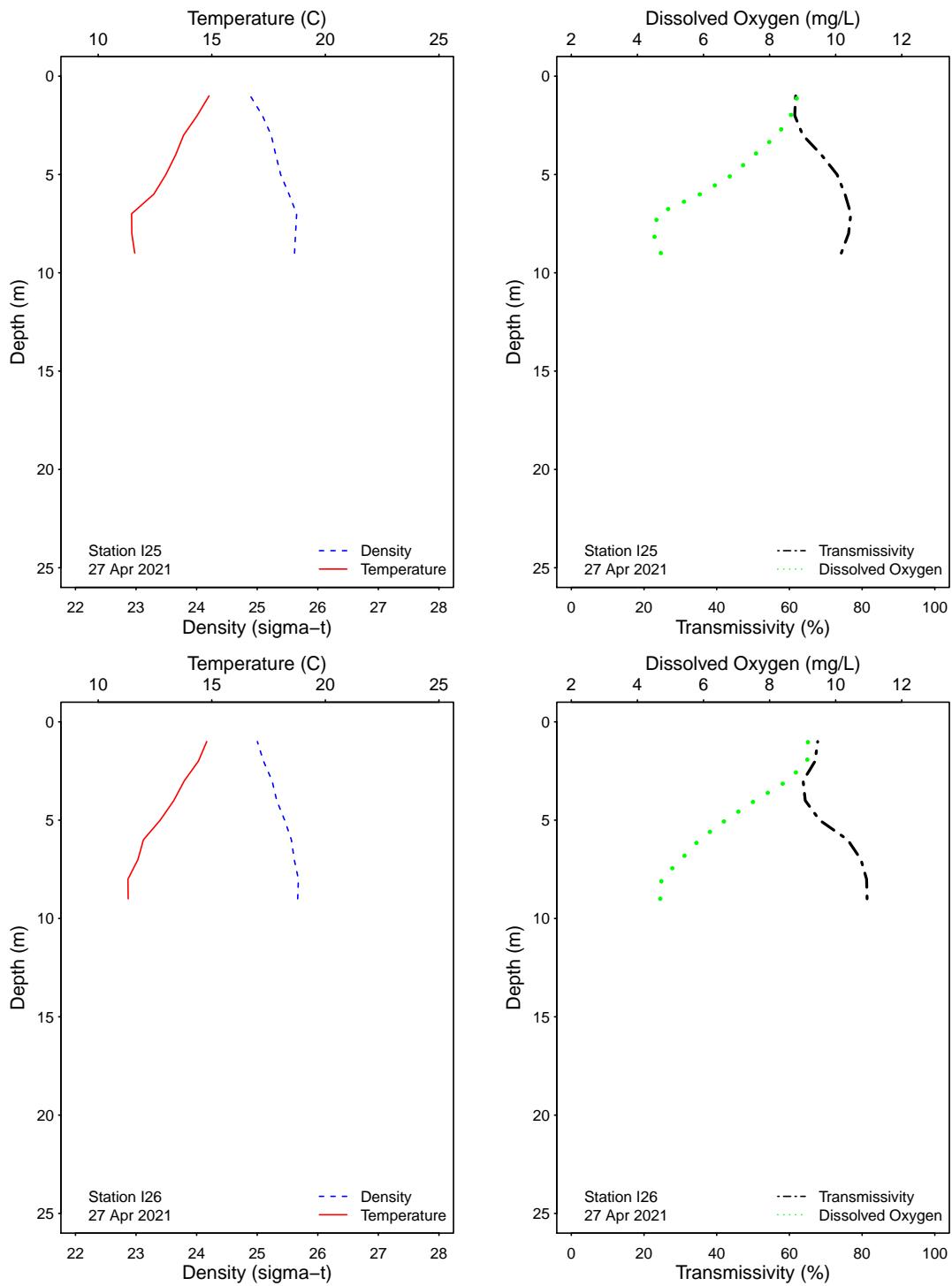


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

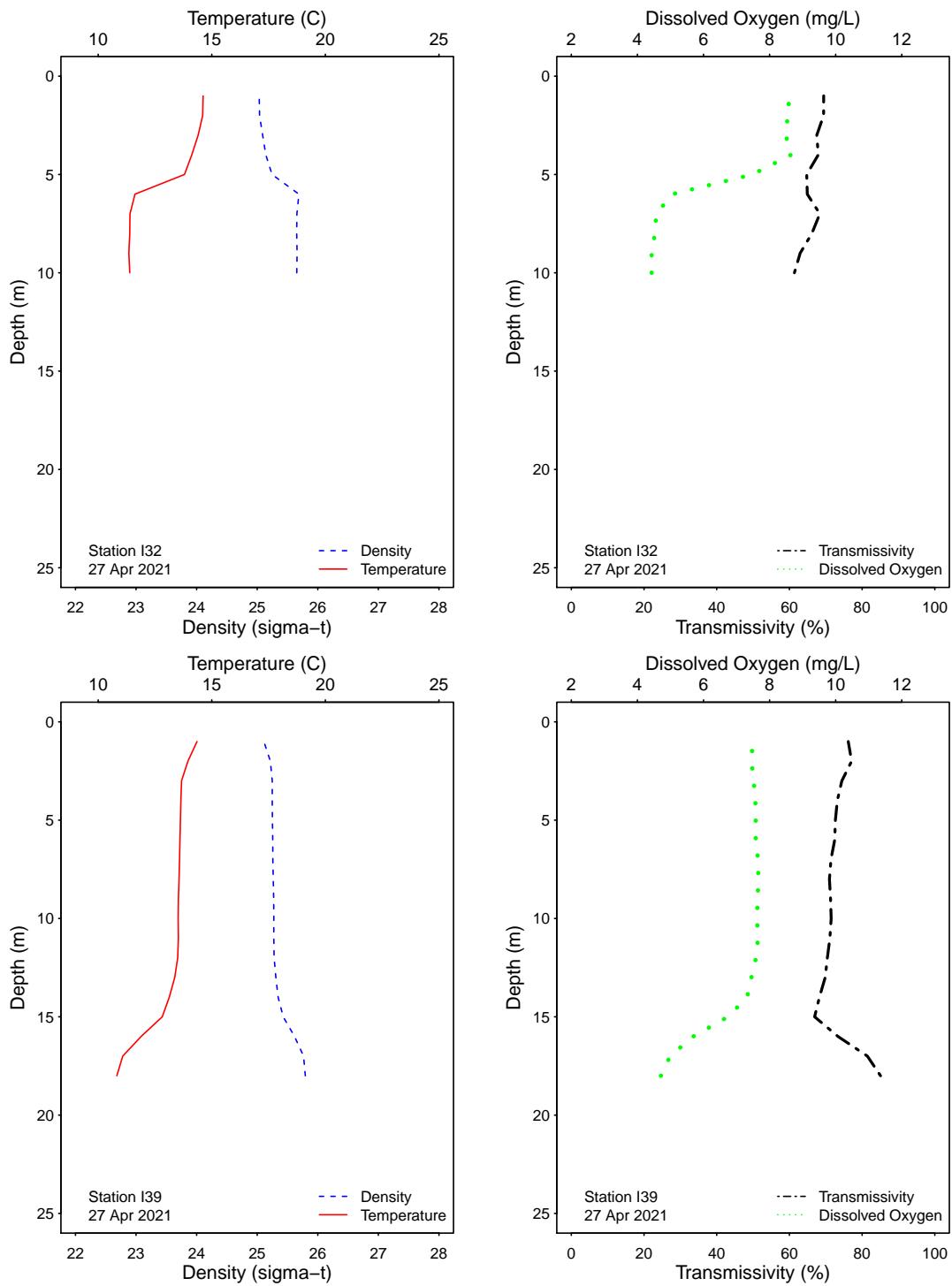


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

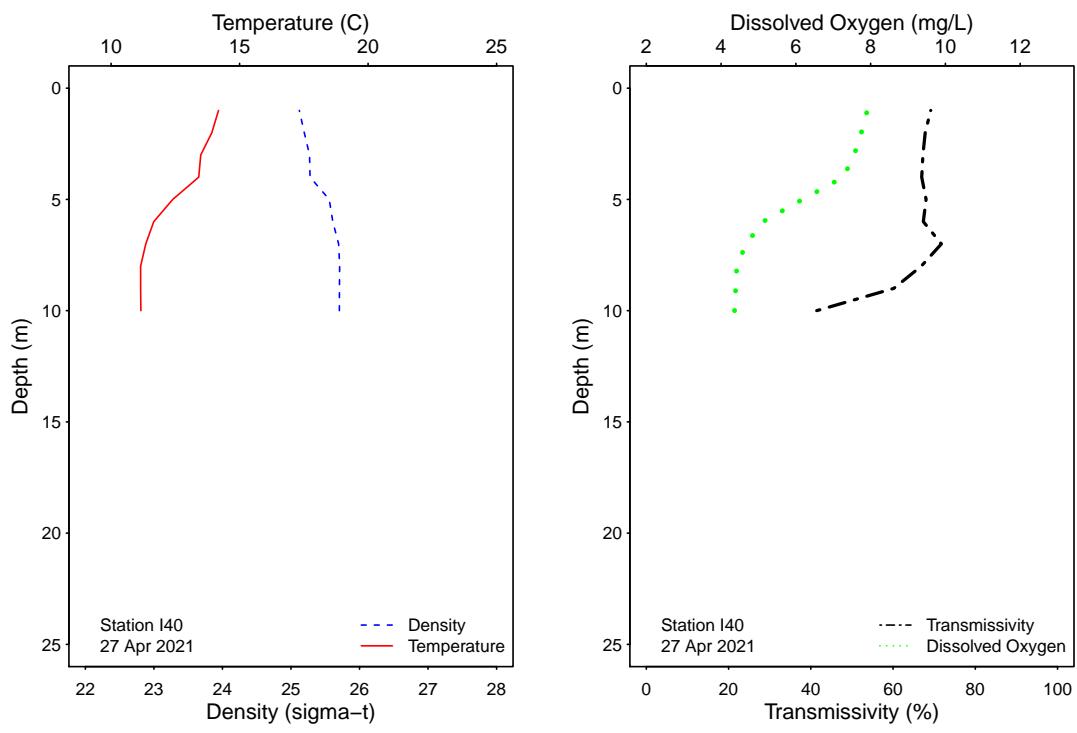


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I19	01 Apr 2021	6	JF	LAB DUPLICATE	<20	6e	2e
I19	06 Apr 2021	6	AR	LAB DUPLICATE	40e	12e	4e
I19	15 Apr 2021	6	JF	LAB DUPLICATE	40e	2e	2e
I19	20 Apr 2021	6	JF	LAB DUPLICATE	<20	<2	<2
I19	27 Apr 2021	6	AE	LAB DUPLICATE	<20	<2	<2
I40	01 Apr 2021	6	AE	LAB DUPLICATE	200e	200e	60
I40	06 Apr 2021	6	AR	LAB DUPLICATE	180e	22e	8e
I40	15 Apr 2021	6	JF	LAB DUPLICATE	10e	<2	<2
I40	20 Apr 2021	6	AR	LAB DUPLICATE	<20	<2	<2
I40	27 Apr 2021	6	AE	LAB DUPLICATE	2e	2e	<2
S12	06 Apr 2021		LMA	FIELD DUPLICATE	<20	2e	4e
S12	06 Apr 2021		LMA	LAB DUPLICATE	2e	<2	<2
S12	13 Apr 2021		AE	FIELD DUPLICATE	<20	2e	16e
S12	13 Apr 2021		JF	LAB DUPLICATE	<20	2e	16e
S12	20 Apr 2021		BS	FIELD DUPLICATE	<2	<2	<2
S12	20 Apr 2021		BS	LAB DUPLICATE	20e	<2	2e
S12	27 Apr 2021		AE	FIELD DUPLICATE	<200	4e	6e
S12	27 Apr 2021		AE	LAB DUPLICATE	<20	4e	4e

ns = not sampled

ND = no data

APPENDIX B

New 2019 Ocean Plan Water Quality Objectives

Shore Stations

Table B.1

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 Apr 2021	328	3477	41	3	3	1065	62	8
02 Apr 2021	259	3678	83	3	3	833	120	8
03 Apr 2021	231	3477	83	3	3	789	120	8
04 Apr 2021	231	3678	132	3	3	789	201	8
05 Apr 2021	202	3477	132	3	3	673	201	8
06 Apr 2021	177	3477	132	3	3	687	212	8
07 Apr 2021	177	3477	132	3	3	687	212	8
08 Apr 2021	148	3827	132	3	3	631	212	8
09 Apr 2021	148	3827	132	3	3	631	212	8
10 Apr 2021	138	3925	132	3	3	708	212	8
11 Apr 2021	138	3925	132	3	3	708	212	8
12 Apr 2021	192	5379	132	3	3	708	212	8
13 Apr 2021	234	7373	196	3	3	1126	378	9
14 Apr 2021	234	7373	196	3	3	1126	378	9
15 Apr 2021	234	7538	271	3	3	914	509	9
16 Apr 2021	234	7538	271	3	3	914	509	9
17 Apr 2021	234	7692	174	3	3	914	308	9
18 Apr 2021	234	7692	174	3	3	914	308	9
19 Apr 2021	234	7836	174	3	3	914	308	9
20 Apr 2021	179	7485	142	3	5	718	234	7
21 Apr 2021	179	7485	142	3	5	718	234	7
22 Apr 2021	179	5649	142	3	5	602	234	7
23 Apr 2021	179	5649	142	3	5	602	234	7
24 Apr 2021	179	6066	142	3	5	591	234	7
25 Apr 2021	179	6066	142	3	5	591	234	7
26 Apr 2021	179	5880	142	3	5	477	234	7
27 Apr 2021	111	4217	121	4	5	321	212	8
28 Apr 2021	111	4217	121	4	5	321	212	8
29 Apr 2021	87	4012	121	4	5	248	212	8
30 Apr 2021	87	4012	121	4	5	248	212	8

* Geometric mean calculated using n<5

Table B.2

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
April	E	E	E	IC	IC	E	E	IC

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data

Kelp Stations

Table B.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 Apr 2021	18	10	4	2	3	2	20
02 Apr 2021	18	10	4	2	3	2	20
03 Apr 2021	18	10	4	2	3	2	20
04 Apr 2021	18	10	4	2	3	2	20
05 Apr 2021	13	10	5	2	3	2	27
06 Apr 2021	22	14	6	2	3	2	27
07 Apr 2021	22	14	6	2	3	2	27
08 Apr 2021	22	14	6	2	3	2	27
09 Apr 2021	22	14	6	2	3	2	27
10 Apr 2021	22	14	6	2	3	2	27
11 Apr 2021	22	14	6	2	3	2	27
12 Apr 2021	22	14	6	2	3	2	27
13 Apr 2021	36	17	5	2	3	2	46
14 Apr 2021	36	17	5	2	3	2	46
15 Apr 2021	32	19	7	2	3	2	55
16 Apr 2021	32	19	7	2	3	2	55
17 Apr 2021	32	19	7	2	3	2	55
18 Apr 2021	32	19	7	2	3	2	55
19 Apr 2021	39	20	8	2	2	2	53
20 Apr 2021	24	14	7	2	2	2	31
21 Apr 2021	24	14	7	2	2	2	31
22 Apr 2021	24	14	7	2	2	2	31
23 Apr 2021	24	14	7	2	2	2	31
24 Apr 2021	24	14	7	2	2	2	31
25 Apr 2021	24	14	7	2	2	2	31
26 Apr 2021	24	14	7	2	2	2	31
27 Apr 2021	17	10	6	2	2	2	22
28 Apr 2021	17	10	6	2	2	2	22
29 Apr 2021	13	7	7	2	2	2	24
30 Apr 2021	13	7	7	2	2	2	24

* Geometric mean calculated using n<5

Table B.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
April	E	E	IC	IC	IC	IC	E

IC = In Compliance

E = Exceedance

ns = not sampled

ND = no data