



MONTHLY RECEIVING WATERS MONITORING REPORT FOR THE POINT LOMA OCEAN OUTFALL

**POINT LOMA METROPOLITAN WASTEWATER
TREATMENT PLANT**

NPDES PERMIT No. CA 0107409
SDRWQCB Order No. R9-2009-0001

MARCH 2017

Environmental Monitoring and Technical Services
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Public Utilities Department

Environmental Monitoring & Technical Services Division

April 30, 2017

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 March 2017 Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall, Point Loma Wastewater Treatment Plant as required per Order No. R9-2009-0001, NPDES Permit No. CA0107409.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the Point Loma outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan.

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

Sincerely,

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

TDS/asb

cc: U.S. Environmental Protection Agency, Region 9

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INTRODUCTION

Monthly reports of water quality and ocean conditions for the San Diego coastal region surrounding the Point Loma Ocean Outfall are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2009-0001, NPDES Permit No. CA0107409 for the Point Loma Wastewater Treatment Plant (PLWTP), Point Loma Ocean Outfall (PLOO). 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 PLWTP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

Water quality conditions are monitored at eight shore stations (D4, D5, D7–D12). These stations range from the tip of the Point Loma Peninsula to west of Mission Bay (see station locations map). Due to site inaccessibility, station D8 has been temporarily abandoned and replaced with station D8-A. This new location will be sampled until access is restored at the original location. Seawater samples are collected from the surf zone at each station five times during the month. These samples are subsequently transported to the City's Marine Microbiology Laboratory and analyzed for the presence of several types of fecal indicator bacteria (FIBs), including total coliforms, fecal coliforms, and *Enterococcus*. Visual observations of water color and clarity, surf height, human or animal activity, and weather conditions are also recorded at the time of sample collection. Wind speed and direction are measured using a hand-held anemometer with a compass.

Kelp Bed Stations

The eight kelp stations are sampled five times during the month according to permit specifications in order to monitor water quality conditions within the Point Loma kelp forest. These stations include three sites located along the inshore edge of the kelp bed paralleling the 9-m depth contour (i.e., stations C4, C5 and C6), and five sites located near the offshore edge of the kelp bed along the 18-m depth contour (i.e., stations A1, A6, A7, C7 and C8).

Routine weekly monitoring at each of the kelp bed sites consists primarily of collecting seawater samples at discrete depths to determine concentrations of indicator bacteria (i.e., total coliforms, fecal coliforms, and *Enterococcus*). Additional samples for ammonium analysis are collected at these same sites and depths on a quarterly basis in order to correspond to sampling at the offshore stations located within State waters that is typically scheduled during the months of February, May, August and November. Water column profiles of various physical/chemical parameters are also generated during each sampling event, and visual observations of weather and water conditions are recorded at each station.

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for ammonium and bacteriological analyses are then drawn from these bottles into sterile sample bottles for processing at the City's Toxicology Laboratory (ammonium) and Marine Microbiology Laboratory (bacteria), respectively. Water column profiles of temperature, transmissivity, dissolved oxygen, pH, salinity, density, chlorophyll *a* are generated using a Sea-Bird conductivity, temperature and depth instrument (CTD), which collects these data

at a rate of eight scans per second. These scans are then internally averaged to create water column profiles with data readings at a rate of one per meter. The CTD data are presented in both graphical and tabular form. Additionally, data for depths closest to those where bacteriological samples are collected are extracted from the CTD profiles and presented with the bacteriological data.

Offshore Stations

Offshore water quality sampling is conducted quarterly, typically during the months of February, May, August and November. A total of 36 offshore stations (F01–F36) are sampled during each survey usually over a 3-day period. Three of the stations (F01–F03) are located along the 18-m depth contour, while 11 stations are located along each of the following contours: 60 m (stations F04–F14); 80 m (stations F15–F25); 98 m (stations F26–F36). Of these 36 stations, 15 (F01–F03, F06–F14, F18–F20) are located within State jurisdictional waters (i.e., within 3 nautical miles of shore) and are subject to the California Ocean Plan's compliance standards.

Monitoring at all offshore sites includes measurements of *Enterococcus* bacteria, water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, chromomorphic dissolved organic matter (CDOM), and visual observations of weather and water conditions. Monitoring at sites within State waters also include the collection of discrete grab samples for ammonium analysis (see Table 4.2).

Seawater samples for ammonium and bacteriological analyses at the offshore stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Profiles of the various physical/chemical parameters (listed above) are taken using a Sea-Bird CTD. The CTD profile data are then presented in both graphical and tabular form. Additionally, data for depths closest to those at which bacteriological samples are collected are extracted from the CTD profiles and 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. 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;

^[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.

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

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.

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987) 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 2017 Quality Assurance Report, which will be completed in March 2018.

SUMMARY OF RESULTS

Shore Stations

- During March 2017, four of the eight shore stations were out of compliance with various water-contact standards specified in the Ocean Plan as summarized below.
 - o The 30-day geometric mean standard for *Enterococcus* was exceeded at stations D8-A, D9, D10, and D11 on multiple days during the month.
 - o The single sample maximum (SSM) standard for *Enterococcus* was exceeded at station D11 on March 6.
- Per permit requirements, a resample was collected in response to the above SSM exceedance (see Table 2.8 for details).
- Over the years, elevated bacteria levels at shore and kelp bed stations have tended to be associated with rainfall events, heavy recreational use, or the presence of seabirds or decaying kelp and surfgrass. See the City of San Diego's most recent *Point Loma Ocean Outfall Annual Receiving Waters Monitoring and Assessment Report* for details (<http://www.sandiego.gov/mwwd/environment/oceanmonitor/reports/index.shtml>).
- Notable visual observations for March included a sewage-like odor at station D5 on March 1 and at station D8-A on March 2.

Kelp Bed Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled five times during March (i.e. March 3, 9, 18, 22, 26).

- During March, all of the kelp bed stations were in compliance with all water-contact standards specified in the Ocean Plan.
- Water column temperatures ranged from 10.91 to 16.84°C during the month. The difference between surface and bottom waters ranged from 1.06 to 4.38°C, indicating that the water column was stratified at the kelp bed stations during the month.
- Chlorophyll *a* concentrations ranged from 0.36 to 5.64 µg/L during March, suggesting the presence of phytoplankton blooms during the month.
- There were no notable visual observations for March.

Offshore Stations

- Quarterly sampling was not conducted during March at the offshore stations. The next quarterly sampling is scheduled for May 2017.



TABLES AND FIGURES

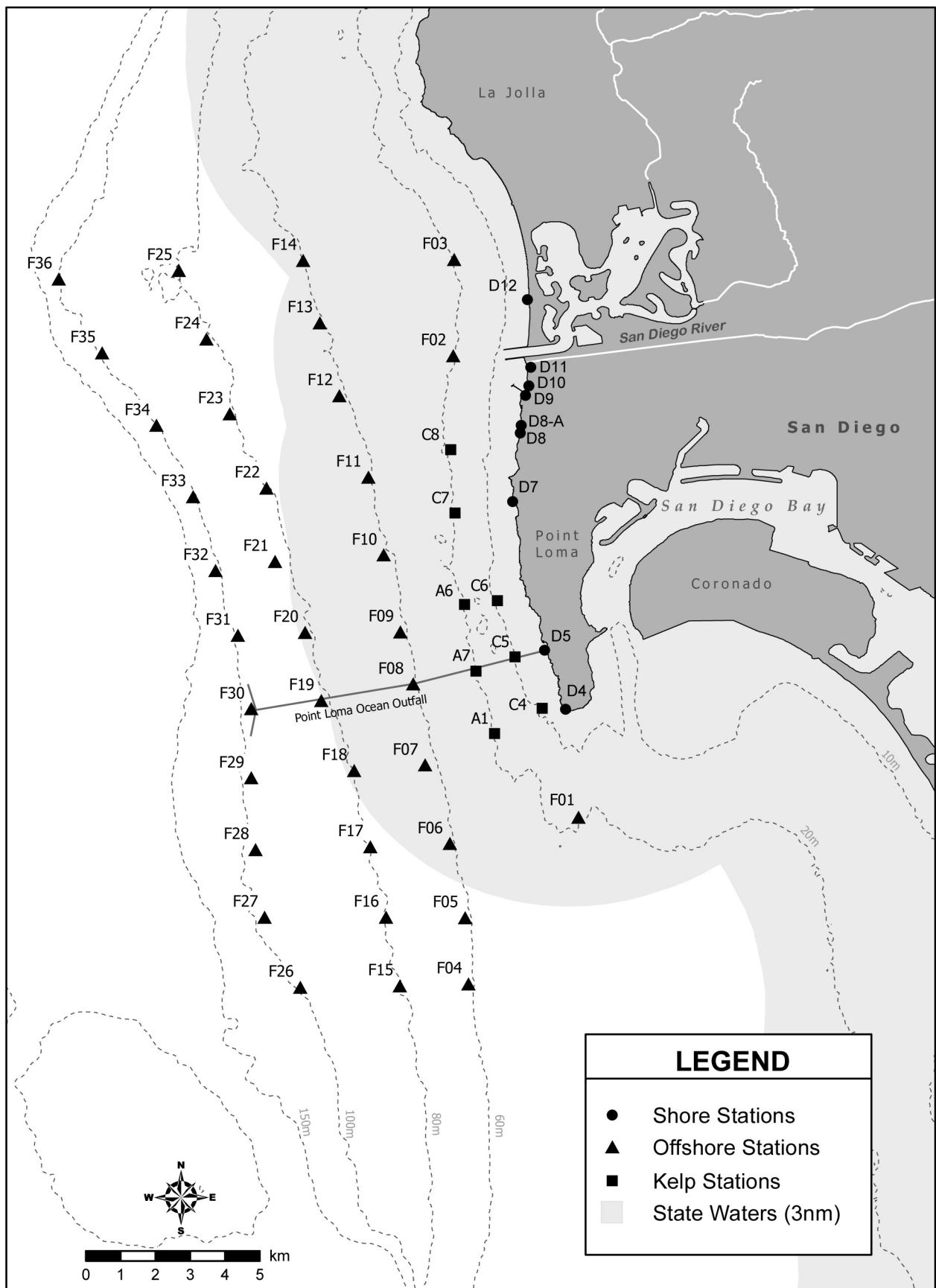


Figure 1.1 Station Map

Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	8	54	83	144	141	223	249	22
02 Mar 2017	8	54	83	144	141	223	249	22
03 Mar 2017	8	54	83	144	141	223	249	22
04 Mar 2017	8	54	83	144	141	223	249	22
05 Mar 2017	8	54	83	144	141	223	249	22
06 Mar 2017	13	54	137	189	204	268	387	18
07 Mar 2017	13	54	137	189	204	268	387	18
08 Mar 2017	13	54	137	189	204	268	387	18
09 Mar 2017	13	54	137	189	204	268	387	18
10 Mar 2017	13	54	137	189	204	268	387	18
11 Mar 2017	13	54	137	189	204	268	387	18
12 Mar 2017	13	54	122	168	267	268	345	29
13 Mar 2017	13	54	122	168	267	268	345	29
14 Mar 2017	13	54	122	168	267	268	345	29
15 Mar 2017	13	54	122	168	267	268	345	29
16 Mar 2017	13	54	122	168	267	268	345	29
17 Mar 2017	13	54	122	168	267	268	345	29
18 Mar 2017	21	48	159	196	326	292	376	39
19 Mar 2017	21	48	159	196	326	292	376	39
20 Mar 2017	21	48	159	196	326	292	376	39
21 Mar 2017	21	48	159	196	326	292	376	39
22 Mar 2017	21	48	159	196	326	292	376	39
23 Mar 2017	21	48	159	196	326	292	376	39
24 Mar 2017	18	48	126	196	290	292	287	47
25 Mar 2017	18	48	126	196	290	292	287	47
26 Mar 2017	18	48	126	196	290	292	287	47
27 Mar 2017	18	48	126	196	290	292	287	47
28 Mar 2017	18	48	126	196	290	292	287	47
29 Mar 2017	18	48	126	196	290	292	287	47
30 Mar 2017	8	32	42	81	114	115	141	17
31 Mar 2017	8	32	23	36	53	57	81	17

* Geometric mean calculated using n<5

ns = not sampled

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	3	4	9	11	13	25	16	4
02 Mar 2017	3	4	9	11	13	25	16	4
03 Mar 2017	3	4	9	11	13	25	16	4
04 Mar 2017	3	4	9	11	13	25	16	4
05 Mar 2017	3	4	9	11	13	25	16	4
06 Mar 2017	3	4	9	11	16	22	19	4
07 Mar 2017	3	4	9	11	16	22	19	4
08 Mar 2017	3	4	9	11	16	22	19	4
09 Mar 2017	3	4	9	11	16	22	19	4
10 Mar 2017	3	4	9	11	16	22	19	4
11 Mar 2017	3	4	9	11	16	22	19	4
12 Mar 2017	3	4	9	11	16	30	17	5
13 Mar 2017	3	4	9	11	16	30	17	5
14 Mar 2017	3	4	9	11	16	30	17	5
15 Mar 2017	3	4	9	11	16	30	17	5
16 Mar 2017	3	4	9	11	16	30	17	5
17 Mar 2017	3	4	9	11	16	30	17	5
18 Mar 2017	3	4	9	10	16	30	17	5
19 Mar 2017	3	4	9	10	16	30	17	5
20 Mar 2017	3	4	9	10	16	30	17	5
21 Mar 2017	3	4	9	10	16	30	17	5
22 Mar 2017	3	4	9	10	16	30	17	5
23 Mar 2017	3	4	9	10	16	30	17	5
24 Mar 2017	2	4	9	10	16	35	19	9
25 Mar 2017	2	4	9	10	16	35	19	9
26 Mar 2017	2	4	9	10	16	35	19	9
27 Mar 2017	2	4	9	10	16	35	19	9
28 Mar 2017	2	4	9	10	16	35	19	9
29 Mar 2017	2	4	9	10	16	35	19	9
30 Mar 2017	2	2	3	4	6	13	6	5
31 Mar 2017	2	2	2	2	3	8	6	5

* Geometric mean calculated using n<5

ns = not sampled

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	6	4	9	28	28	42	48	9
02 Mar 2017	6	4	9	40	33	48	54	9
03 Mar 2017	6	4	9	43	33	48	54	9
04 Mar 2017	6	4	9	43	33	48	54	9
05 Mar 2017	6	4	9	43	33	48	54	9
06 Mar 2017	6	4	9	43	46	65	79	9
07 Mar 2017	6	4	9	43	46	65	79	9
08 Mar 2017	6	4	9	43	46	65	70	9
09 Mar 2017	6	4	9	43	46	65	70	9
10 Mar 2017	6	4	9	43	46	65	70	9
11 Mar 2017	6	4	9	43	46	65	70	9
12 Mar 2017	4	4	10	36	51	64	76	11
13 Mar 2017	4	4	10	36	51	64	76	11
14 Mar 2017	4	4	10	36	51	64	76	11
15 Mar 2017	4	4	10	36	51	64	76	11
16 Mar 2017	4	4	10	36	51	64	76	11
17 Mar 2017	4	4	10	36	51	64	76	11
18 Mar 2017	4	4	10	36	51	64	76	11
19 Mar 2017	4	4	10	36	51	64	76	11
20 Mar 2017	4	4	10	36	51	64	76	11
21 Mar 2017	4	4	10	36	51	64	76	11
22 Mar 2017	4	4	10	36	51	64	76	11
23 Mar 2017	4	4	10	36	51	64	76	11
24 Mar 2017	4	4	10	36	51	64	69	14
25 Mar 2017	4	4	10	36	51	64	69	14
26 Mar 2017	4	4	10	36	51	64	69	14
27 Mar 2017	4	4	10	36	51	64	69	14
28 Mar 2017	4	4	10	36	51	64	69	14
29 Mar 2017	4	4	10	36	51	64	69	14
30 Mar 2017	3	2	3	17	22	28	36	6
31 Mar 2017	3	2	2	10	10	20	26	4

* Geometric mean calculated using n<5

ns = not sampled

Table 2.4

Summary of compliance at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	ns	ns	IC	IC	IC	IC	IC	ns
06 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
18 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.5

Summary of compliance at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	ns	ns	IC	IC	IC	IC	ns	ns
06 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
18 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.6

Summary of compliance at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	ns	IC	IC	E	E	E	E	IC
02 Mar 2017	ns	ns	ns	E	IC	IC	IC	ns
03 Mar 2017	ns	ns	ns	IC	ns	ns	ns	ns
06 Mar 2017	IC	IC	IC	IC	IC	IC	E	IC
08 Mar 2017	ns	ns	ns	ns	ns	ns	IC	ns
12 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
18 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.7

Summary of compliance at the PLOO 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	D4	D5	D7	D8-A	D9	D10	D11	D12
01 Mar 2017	ns	ns	IC	IC	IC	IC	ns	ns
06 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
18 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2017	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.8

Summary of water quality parameters at the PLOO 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
D4	06 Mar 2017	851	<20	<2	<2	0.100
	12 Mar 2017	852	20e	2e	4e	0.100
	18 Mar 2017	1016	<20	<2	<2	0.100
	24 Mar 2017	1124	<2	<2	<2	1.000
	30 Mar 2017	943	2e	<2	4e	1.000
D5	01 Mar 2017	927	ns	ns	2e	ns
	06 Mar 2017	835	<20	<2	<2	0.100
	12 Mar 2017	845	<20	<2	<2	0.100
	18 Mar 2017	1036	<20	<2	<2	0.100
	24 Mar 2017	1112	<20	<2	<2	0.100
	30 Mar 2017	1005	<200	<2	<2	0.010
D7	01 Mar 2017	954	800e	40	20e	0.050
	06 Mar 2017	922	40e	<2	<2	0.050
	12 Mar 2017	913	<20	2e	4e	0.100
	18 Mar 2017	948	20e	<2	<2	0.100
	24 Mar 2017	1146	<20	<2	2e	0.100
	30 Mar 2017	915	<20	<2	<2	0.100
D8-A	01 Mar 2017	1009	4400e	100e	780	0.023
	02 Mar 2017	931	ns	ns	320e	ns
	03 Mar 2017	927	ns	ns	80e	ns
	06 Mar 2017	934	100e	<2	2e	0.020
	12 Mar 2017	918	20e	<2	4e	0.100
	18 Mar 2017	826	<20	<2	<2	0.100
	24 Mar 2017	1156	<20	<2	<2	0.100
	30 Mar 2017	720	80e	<2	10e	0.025
D9	01 Mar 2017	1020	5200e	400e	2400e	0.077
	02 Mar 2017	954	ns	ns	100e	ns
	06 Mar 2017	946	180e	10e	20e	0.056
	12 Mar 2017	933	100e	<2	16e	0.020
	18 Mar 2017	1216	<20	<2	<2	0.100
	24 Mar 2017	1208	20e	<2	<2	0.100
	30 Mar 2017	848	60e	2e	8e	0.033
D10	01 Mar 2017	1032	4000	120e	260e	0.030
	02 Mar 2017	1005	ns	ns	100e	ns
	06 Mar 2017	1003	600e	18e	70e	0.030
	12 Mar 2017	944	20e	14e	20e	0.700
	18 Mar 2017	1157	<20	2e	<2	0.100

Station	Date	Time	Total	Fecal	Enteric	F:T
D10	24 Mar 2017	1218	40e	16e	10e	0.400
D10	30 Mar 2017	833	60e	4e	20e	0.067
D11	01 Mar 2017	1043	2200e	ns	420	ns
D11	02 Mar 2017	1017	ns	ns	100e	ns
D11	06 Mar 2017	1016	2000e	60e	120	0.030
D11	08 Mar 2017	850	ns	ns	32e	ns
D11	12 Mar 2017	953	10e	2e	36e	0.200
D11	18 Mar 2017	1142	<20	<2	<2	0.100
D11	24 Mar 2017	1227	40e	24e	12e	0.600
D11	30 Mar 2017	817	220e	<2	22e	0.009
D12	01 Mar 2017	1107	ns	ns	22e	ns
D12	06 Mar 2017	1044	<2	<2	<2	1.000
D12	12 Mar 2017	1011	20e	8e	26e	0.400
D12	18 Mar 2017	1120	<20	<2	<2	0.100
D12	24 Mar 2017	1248	100e	60	8e	0.600
D12	30 Mar 2017	756	<20	2e	<2	0.100

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
D10	01 Mar 2017			Resample
D11	01 Mar 2017			Resample
D12	01 Mar 2017			Resample
D5	01 Mar 2017			Resample
D7	01 Mar 2017			Resample
D8-A	01 Mar 2017			Resample
D9	01 Mar 2017			Resample
D10	02 Mar 2017			Resample
D11	02 Mar 2017			Resample
D8-A	02 Mar 2017			Resample
D9	02 Mar 2017			Resample
D10	03 Mar 2017			Resample
D11	03 Mar 2017			Resample
D8-A	03 Mar 2017			Resample
D9	03 Mar 2017			Resample
D11	08 Mar 2017			Resample

Table 2.9

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

Station	Date	Parameter	Value
D4	06 Mar 2017	Arrive Time	851
D4	06 Mar 2017	Weather	Sunny
D4	06 Mar 2017	Wind Speed (kts)	0.7
D4	06 Mar 2017	Wind Dir	W
D4	06 Mar 2017	Animal Life	None
D4	06 Mar 2017	Floatables	None
D4	06 Mar 2017	Water Color	Green
D4	06 Mar 2017	Current Direction	W
D4	06 Mar 2017	Wave Height Low (ft)	2
D4	06 Mar 2017	High Tide (ft)	4.8
D4	06 Mar 2017	High Tide Time	326
D4	06 Mar 2017	Low Tide (ft)	0
D4	06 Mar 2017	Low Tide Time	1106
D4	06 Mar 2017	Comments	Kelp; Seagrass; Water clear
D4	12 Mar 2017	Arrive Time	852
D4	12 Mar 2017	Weather	Foggy
D4	12 Mar 2017	Wind Speed (kts)	1.2
D4	12 Mar 2017	Wind Dir	W
D4	12 Mar 2017	Animal Life	None
D4	12 Mar 2017	Floatables	None
D4	12 Mar 2017	Water Color	Green
D4	12 Mar 2017	Current Direction	N
D4	12 Mar 2017	Wave Height Low (ft)	3
D4	12 Mar 2017	High Tide (ft)	5.4
D4	12 Mar 2017	High Tide Time	940
D4	12 Mar 2017	Low Tide (ft)	0.4
D4	12 Mar 2017	Low Tide Time	343
D4	12 Mar 2017	Comments	Kelp; Seagrass; Water clear
D4	18 Mar 2017	Arrive Time	1016
D4	18 Mar 2017	Weather	Foggy
D4	18 Mar 2017	Wind Speed (kts)	3
D4	18 Mar 2017	Wind Dir	NW
D4	18 Mar 2017	Animal Life	None
D4	18 Mar 2017	Floatables	None
D4	18 Mar 2017	Water Color	Green
D4	18 Mar 2017	Current Direction	NW
D4	18 Mar 2017	Wave Height Low (ft)	2
D4	18 Mar 2017	High Tide (ft)	2.7
D4	18 Mar 2017	High Tide Time	1409
D4	18 Mar 2017	Low Tide (ft)	1.1
D4	18 Mar 2017	Low Tide Time	805
D4	18 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D4	24 Mar 2017	Arrive Time	1124
D4	24 Mar 2017	Weather	Sunny
D4	24 Mar 2017	Wind Speed (kts)	4.4
D4	24 Mar 2017	Wind Dir	W
D4	24 Mar 2017	Animal Life	None
D4	24 Mar 2017	Floatables	None

Station	Date	Parameter	Value
D4	24 Mar 2017	Water Color	Green
D4	24 Mar 2017	Current Direction	N
D4	24 Mar 2017	Wave Height Low (ft)	3
D4	24 Mar 2017	High Tide (ft)	4.9
D4	24 Mar 2017	High Tide Time	717
D4	24 Mar 2017	Low Tide (ft)	-0.3
D4	24 Mar 2017	Low Tide Time	1407
D4	24 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D4	30 Mar 2017	Arrive Time	943
D4	30 Mar 2017	Weather	Foggy
D4	30 Mar 2017	Wind Speed (kts)	2
D4	30 Mar 2017	Wind Dir	W
D4	30 Mar 2017	Animal Life	None
D4	30 Mar 2017	Floatables	None
D4	30 Mar 2017	Water Color	Green
D4	30 Mar 2017	Current Direction	W
D4	30 Mar 2017	Wave Height Low (ft)	3
D4	30 Mar 2017	High Tide (ft)	4.4
D4	30 Mar 2017	High Tide Time	1134
D4	30 Mar 2017	Low Tide (ft)	-0.5
D4	30 Mar 2017	Low Tide Time	531
D4	30 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D5	01 Mar 2017	Arrive Time	927
D5	01 Mar 2017	Weather	Sunny
D5	01 Mar 2017	Wind Speed (kts)	1.2
D5	01 Mar 2017	Wind Dir	W
D5	01 Mar 2017	Animal Life	None
D5	01 Mar 2017	Floatables	None
D5	01 Mar 2017	Water Color	Brown
D5	01 Mar 2017	Current Direction	N
D5	01 Mar 2017	Wave Height Low (ft)	3
D5	01 Mar 2017	High Tide (ft)	4.7
D5	01 Mar 2017	High Tide Time	1034
D5	01 Mar 2017	Low Tide (ft)	0.4
D5	01 Mar 2017	Low Tide Time	438
D5	01 Mar 2017	Comments	Kelp; Seagrass; Algae; Sewage-like odor; Water clear
D5	06 Mar 2017	Arrive Time	835
D5	06 Mar 2017	Weather	Sunny
D5	06 Mar 2017	Wind Speed (kts)	2.2
D5	06 Mar 2017	Wind Dir	W
D5	06 Mar 2017	Animal Life	None
D5	06 Mar 2017	Floatables	None
D5	06 Mar 2017	Water Color	Green
D5	06 Mar 2017	Current Direction	W
D5	06 Mar 2017	Wave Height Low (ft)	2
D5	06 Mar 2017	High Tide (ft)	4.8
D5	06 Mar 2017	High Tide Time	326
D5	06 Mar 2017	Low Tide (ft)	0
D5	06 Mar 2017	Low Tide Time	1106
D5	06 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D5	12 Mar 2017	Arrive Time	845

Station	Date	Parameter	Value
D5	12 Mar 2017	Weather	Foggy
D5	12 Mar 2017	Wind Speed (kts)	0.2
D5	12 Mar 2017	Wind Dir	W
D5	12 Mar 2017	Animal Life	None
D5	12 Mar 2017	Floatables	None
D5	12 Mar 2017	Water Color	Green
D5	12 Mar 2017	Current Direction	N
D5	12 Mar 2017	Wave Height Low (ft)	3
D5	12 Mar 2017	High Tide (ft)	5.4
D5	12 Mar 2017	High Tide Time	940
D5	12 Mar 2017	Low Tide (ft)	0.4
D5	12 Mar 2017	Low Tide Time	343
D5	12 Mar 2017	Comments	Kelp; Seagrass; Water clear
D5	18 Mar 2017	Arrive Time	1036
D5	18 Mar 2017	Weather	Foggy
D5	18 Mar 2017	Wind Speed (kts)	3
D5	18 Mar 2017	Wind Dir	NW
D5	18 Mar 2017	Animal Life	None
D5	18 Mar 2017	Floatables	None
D5	18 Mar 2017	Water Color	Green
D5	18 Mar 2017	Current Direction	NW
D5	18 Mar 2017	Wave Height Low (ft)	2
D5	18 Mar 2017	High Tide (ft)	2.7
D5	18 Mar 2017	High Tide Time	1409
D5	18 Mar 2017	Low Tide (ft)	1.1
D5	18 Mar 2017	Low Tide Time	805
D5	18 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D5	24 Mar 2017	Arrive Time	1112
D5	24 Mar 2017	Weather	Sunny
D5	24 Mar 2017	Wind Speed (kts)	0.3
D5	24 Mar 2017	Wind Dir	W
D5	24 Mar 2017	Animal Life	None
D5	24 Mar 2017	Floatables	None
D5	24 Mar 2017	Water Color	Brown
D5	24 Mar 2017	Current Direction	N
D5	24 Mar 2017	Wave Height Low (ft)	2
D5	24 Mar 2017	High Tide (ft)	4.9
D5	24 Mar 2017	High Tide Time	717
D5	24 Mar 2017	Low Tide (ft)	-0.3
D5	24 Mar 2017	Low Tide Time	1407
D5	24 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D5	30 Mar 2017	Arrive Time	1005
D5	30 Mar 2017	Weather	Sunny
D5	30 Mar 2017	Wind Speed (kts)	3
D5	30 Mar 2017	Wind Dir	W
D5	30 Mar 2017	Animal Life	None
D5	30 Mar 2017	Floatables	None
D5	30 Mar 2017	Water Color	Green
D5	30 Mar 2017	Current Direction	W
D5	30 Mar 2017	Wave Height Low (ft)	4
D5	30 Mar 2017	High Tide (ft)	4.4
D5	30 Mar 2017	High Tide Time	1134

Station	Date	Parameter	Value
D5	30 Mar 2017	Low Tide (ft)	-0.5
D5	30 Mar 2017	Low Tide Time	531
D5	30 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D7	01 Mar 2017	Arrive Time	954
D7	01 Mar 2017	Weather	Sunny
D7	01 Mar 2017	Wind Speed (kts)	3.3
D7	01 Mar 2017	Wind Dir	W
D7	01 Mar 2017	Animal Life	None
D7	01 Mar 2017	Floatables	None
D7	01 Mar 2017	Water Color	Green
D7	01 Mar 2017	Current Direction	N
D7	01 Mar 2017	Wave Height Low (ft)	3
D7	01 Mar 2017	High Tide (ft)	4.7
D7	01 Mar 2017	High Tide Time	1034
D7	01 Mar 2017	Low Tide (ft)	0.4
D7	01 Mar 2017	Low Tide Time	438
D7	01 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D7	06 Mar 2017	Arrive Time	922
D7	06 Mar 2017	Weather	Sunny
D7	06 Mar 2017	Wind Speed (kts)	3
D7	06 Mar 2017	Wind Dir	W
D7	06 Mar 2017	Animal Life	None
D7	06 Mar 2017	Floatables	None
D7	06 Mar 2017	Water Color	Brown
D7	06 Mar 2017	Current Direction	N
D7	06 Mar 2017	Wave Height Low (ft)	2
D7	06 Mar 2017	High Tide (ft)	4.8
D7	06 Mar 2017	High Tide Time	326
D7	06 Mar 2017	Low Tide (ft)	0
D7	06 Mar 2017	Low Tide Time	1106
D7	06 Mar 2017	Comments	Kelp; Seagrass; Water clear
D7	12 Mar 2017	Arrive Time	913
D7	12 Mar 2017	Weather	Foggy
D7	12 Mar 2017	Wind Speed (kts)	2.2
D7	12 Mar 2017	Wind Dir	W
D7	12 Mar 2017	Animal Life	None
D7	12 Mar 2017	Floatables	None
D7	12 Mar 2017	Water Color	Green
D7	12 Mar 2017	Current Direction	N
D7	12 Mar 2017	Wave Height Low (ft)	3
D7	12 Mar 2017	High Tide (ft)	5.4
D7	12 Mar 2017	High Tide Time	940
D7	12 Mar 2017	Low Tide (ft)	0.4
D7	12 Mar 2017	Low Tide Time	343
D7	12 Mar 2017	Comments	Kelp; Seagrass; Water clear
D7	18 Mar 2017	Arrive Time	948
D7	18 Mar 2017	Weather	Foggy
D7	18 Mar 2017	Wind Speed (kts)	2
D7	18 Mar 2017	Wind Dir	W
D7	18 Mar 2017	Animal Life	None
D7	18 Mar 2017	Floatables	None

Station	Date	Parameter	Value
D7	18 Mar 2017	Water Color	Green
D7	18 Mar 2017	Current Direction	W
D7	18 Mar 2017	Wave Height Low (ft)	3
D7	18 Mar 2017	High Tide (ft)	2.7
D7	18 Mar 2017	High Tide Time	1409
D7	18 Mar 2017	Low Tide (ft)	1.1
D7	18 Mar 2017	Low Tide Time	805
D7	18 Mar 2017	Comments	Kelp; Seagrass; Algae; 8 Surfers; Water clear
D7	24 Mar 2017	Arrive Time	1146
D7	24 Mar 2017	Weather	Sunny
D7	24 Mar 2017	Wind Speed (kts)	2.7
D7	24 Mar 2017	Wind Dir	W
D7	24 Mar 2017	Animal Life	None
D7	24 Mar 2017	Floatables	None
D7	24 Mar 2017	Water Color	Green
D7	24 Mar 2017	Current Direction	N
D7	24 Mar 2017	Wave Height Low (ft)	3
D7	24 Mar 2017	High Tide (ft)	4.9
D7	24 Mar 2017	High Tide Time	717
D7	24 Mar 2017	Low Tide (ft)	-0.3
D7	24 Mar 2017	Low Tide Time	1407
D7	24 Mar 2017	Comments	Kelp; Seagrass; 6 Surfers; 2 Swimmers; Water clear
D7	30 Mar 2017	Arrive Time	915
D7	30 Mar 2017	Weather	Foggy
D7	30 Mar 2017	Wind Speed (kts)	4
D7	30 Mar 2017	Wind Dir	W
D7	30 Mar 2017	Animal Life	None
D7	30 Mar 2017	Floatables	None
D7	30 Mar 2017	Water Color	Green
D7	30 Mar 2017	Current Direction	W
D7	30 Mar 2017	Wave Height Low (ft)	3
D7	30 Mar 2017	High Tide (ft)	4.4
D7	30 Mar 2017	High Tide Time	1134
D7	30 Mar 2017	Low Tide (ft)	-0.5
D7	30 Mar 2017	Low Tide Time	531
D7	30 Mar 2017	Comments	None
D8-A	01 Mar 2017	Arrive Time	1009
D8-A	01 Mar 2017	Weather	Sunny
D8-A	01 Mar 2017	Wind Speed (kts)	2.8
D8-A	01 Mar 2017	Wind Dir	W
D8-A	01 Mar 2017	Animal Life	None
D8-A	01 Mar 2017	Floatables	None
D8-A	01 Mar 2017	Water Color	Brown
D8-A	01 Mar 2017	Current Direction	N
D8-A	01 Mar 2017	Wave Height Low (ft)	4
D8-A	01 Mar 2017	High Tide (ft)	4.7
D8-A	01 Mar 2017	High Tide Time	1034
D8-A	01 Mar 2017	Low Tide (ft)	0.4
D8-A	01 Mar 2017	Low Tide Time	438
D8-A	01 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D8-A	02 Mar 2017	Arrive Time	931

Station	Date	Parameter	Value
D8-A	02 Mar 2017	Weather	Sunny
D8-A	02 Mar 2017	Wind Speed (kts)	3
D8-A	02 Mar 2017	Wind Dir	W
D8-A	02 Mar 2017	Animal Life	None
D8-A	02 Mar 2017	Floatables	None
D8-A	02 Mar 2017	Water Color	Brown
D8-A	02 Mar 2017	Current Direction	W
D8-A	02 Mar 2017	Wave Height Low (ft)	3
D8-A	02 Mar 2017	High Tide (ft)	4.1
D8-A	02 Mar 2017	High Tide Time	1126
D8-A	02 Mar 2017	Low Tide (ft)	0.5
D8-A	02 Mar 2017	Low Tide Time	532
D8-A	02 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid; Sewage-like odor
D8-A	03 Mar 2017	Arrive Time	927
D8-A	03 Mar 2017	Weather	Sunny
D8-A	03 Mar 2017	Wind Speed (kts)	3
D8-A	03 Mar 2017	Wind Dir	W
D8-A	03 Mar 2017	Animal Life	None
D8-A	03 Mar 2017	Floatables	None
D8-A	03 Mar 2017	Water Color	Brown
D8-A	03 Mar 2017	Current Direction	W
D8-A	03 Mar 2017	Wave Height Low (ft)	2
D8-A	03 Mar 2017	High Tide (ft)	3.4
D8-A	03 Mar 2017	High Tide Time	1234
D8-A	03 Mar 2017	Low Tide (ft)	0.6
D8-A	03 Mar 2017	Low Tide Time	639
D8-A	03 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D8-A	06 Mar 2017	Arrive Time	934
D8-A	06 Mar 2017	Weather	Sunny
D8-A	06 Mar 2017	Wind Speed (kts)	1.7
D8-A	06 Mar 2017	Wind Dir	W
D8-A	06 Mar 2017	Animal Life	None
D8-A	06 Mar 2017	Floatables	None
D8-A	06 Mar 2017	Water Color	Brown
D8-A	06 Mar 2017	Current Direction	N
D8-A	06 Mar 2017	Wave Height Low (ft)	2
D8-A	06 Mar 2017	High Tide (ft)	4.8
D8-A	06 Mar 2017	High Tide Time	326
D8-A	06 Mar 2017	Low Tide (ft)	0
D8-A	06 Mar 2017	Low Tide Time	1106
D8-A	06 Mar 2017	Comments	Kelp; Seagrass; Water clear
D8-A	12 Mar 2017	Arrive Time	918
D8-A	12 Mar 2017	Weather	Foggy
D8-A	12 Mar 2017	Wind Speed (kts)	0.1
D8-A	12 Mar 2017	Wind Dir	W
D8-A	12 Mar 2017	Animal Life	None
D8-A	12 Mar 2017	Floatables	None
D8-A	12 Mar 2017	Water Color	Green
D8-A	12 Mar 2017	Current Direction	N
D8-A	12 Mar 2017	Wave Height Low (ft)	4
D8-A	12 Mar 2017	High Tide (ft)	5.4
D8-A	12 Mar 2017	High Tide Time	940

Station	Date	Parameter	Value
D8-A	12 Mar 2017	Low Tide (ft)	0.4
D8-A	12 Mar 2017	Low Tide Time	343
D8-A	12 Mar 2017	Comments	Kelp; Seagrass; Water clear
D8-A	18 Mar 2017	Arrive Time	826
D8-A	18 Mar 2017	Weather	Foggy
D8-A	18 Mar 2017	Wind Speed (kts)	2
D8-A	18 Mar 2017	Wind Dir	W
D8-A	18 Mar 2017	Animal Life	None
D8-A	18 Mar 2017	Floatables	None
D8-A	18 Mar 2017	Water Color	Green
D8-A	18 Mar 2017	Current Direction	W
D8-A	18 Mar 2017	Wave Height Low (ft)	4
D8-A	18 Mar 2017	High Tide (ft)	2.7
D8-A	18 Mar 2017	High Tide Time	1409
D8-A	18 Mar 2017	Low Tide (ft)	1.1
D8-A	18 Mar 2017	Low Tide Time	805
D8-A	18 Mar 2017	Comments	Kelp; Seagrass; Algae; 5 Surfers; Water turbid
D8-A	24 Mar 2017	Arrive Time	1156
D8-A	24 Mar 2017	Weather	Sunny
D8-A	24 Mar 2017	Wind Speed (kts)	3.6
D8-A	24 Mar 2017	Wind Dir	W
D8-A	24 Mar 2017	Animal Life	None
D8-A	24 Mar 2017	Floatables	None
D8-A	24 Mar 2017	Water Color	Brown
D8-A	24 Mar 2017	Current Direction	N
D8-A	24 Mar 2017	Wave Height Low (ft)	3
D8-A	24 Mar 2017	High Tide (ft)	4.9
D8-A	24 Mar 2017	High Tide Time	717
D8-A	24 Mar 2017	Low Tide (ft)	-0.3
D8-A	24 Mar 2017	Low Tide Time	1407
D8-A	24 Mar 2017	Comments	Kelp; Seagrass; Algae; 1 Person; Water clear
D8-A	30 Mar 2017	Arrive Time	720
D8-A	30 Mar 2017	Weather	Sunny
D8-A	30 Mar 2017	Wind Speed (kts)	1
D8-A	30 Mar 2017	Wind Dir	E
D8-A	30 Mar 2017	Animal Life	None
D8-A	30 Mar 2017	Floatables	None
D8-A	30 Mar 2017	Water Color	Green
D8-A	30 Mar 2017	Current Direction	E
D8-A	30 Mar 2017	Wave Height Low (ft)	2
D8-A	30 Mar 2017	High Tide (ft)	4.4
D8-A	30 Mar 2017	High Tide Time	1134
D8-A	30 Mar 2017	Low Tide (ft)	-0.5
D8-A	30 Mar 2017	Low Tide Time	531
D8-A	30 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D9	01 Mar 2017	Arrive Time	1020
D9	01 Mar 2017	Weather	Sunny
D9	01 Mar 2017	Wind Speed (kts)	4.2
D9	01 Mar 2017	Wind Dir	W
D9	01 Mar 2017	Animal Life	None
D9	01 Mar 2017	Floatables	None

Station	Date	Parameter	Value
D9	01 Mar 2017	Water Color	Brown
D9	01 Mar 2017	Current Direction	N
D9	01 Mar 2017	Wave Height Low (ft)	3
D9	01 Mar 2017	High Tide (ft)	4.7
D9	01 Mar 2017	High Tide Time	1034
D9	01 Mar 2017	Low Tide (ft)	0.4
D9	01 Mar 2017	Low Tide Time	438
D9	01 Mar 2017	Comments	Kelp; Seagrass; Algae; 1 Person; Water clear
D9	02 Mar 2017	Arrive Time	954
D9	02 Mar 2017	Weather	Sunny
D9	02 Mar 2017	Wind Speed (kts)	2
D9	02 Mar 2017	Wind Dir	W
D9	02 Mar 2017	Animal Life	None
D9	02 Mar 2017	Floatables	None
D9	02 Mar 2017	Water Color	Brown
D9	02 Mar 2017	Current Direction	W
D9	02 Mar 2017	Wave Height Low (ft)	3
D9	02 Mar 2017	High Tide (ft)	4.1
D9	02 Mar 2017	High Tide Time	1126
D9	02 Mar 2017	Low Tide (ft)	0.5
D9	02 Mar 2017	Low Tide Time	532
D9	02 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D9	06 Mar 2017	Arrive Time	946
D9	06 Mar 2017	Weather	Sunny
D9	06 Mar 2017	Wind Speed (kts)	2.9
D9	06 Mar 2017	Wind Dir	W
D9	06 Mar 2017	Animal Life	None
D9	06 Mar 2017	Floatables	None
D9	06 Mar 2017	Water Color	Brown
D9	06 Mar 2017	Current Direction	N
D9	06 Mar 2017	Wave Height Low (ft)	2
D9	06 Mar 2017	High Tide (ft)	4.8
D9	06 Mar 2017	High Tide Time	326
D9	06 Mar 2017	Low Tide (ft)	0
D9	06 Mar 2017	Low Tide Time	1106
D9	06 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D9	12 Mar 2017	Arrive Time	933
D9	12 Mar 2017	Weather	Cloudy
D9	12 Mar 2017	Wind Speed (kts)	0.1
D9	12 Mar 2017	Wind Dir	W
D9	12 Mar 2017	Animal Life	None
D9	12 Mar 2017	Floatables	None
D9	12 Mar 2017	Water Color	Green
D9	12 Mar 2017	Current Direction	N
D9	12 Mar 2017	Wave Height Low (ft)	3
D9	12 Mar 2017	High Tide (ft)	5.4
D9	12 Mar 2017	High Tide Time	940
D9	12 Mar 2017	Low Tide (ft)	0.4
D9	12 Mar 2017	Low Tide Time	343
D9	12 Mar 2017	Comments	Kelp; Seagrass; Algae; Water clear
D9	18 Mar 2017	Arrive Time	1216

Station	Date	Parameter	Value
D9	18 Mar 2017	Weather	Sunny
D9	18 Mar 2017	Wind Speed (kts)	3
D9	18 Mar 2017	Wind Dir	NW
D9	18 Mar 2017	Animal Life	None
D9	18 Mar 2017	Floatables	None
D9	18 Mar 2017	Water Color	Green
D9	18 Mar 2017	Current Direction	NW
D9	18 Mar 2017	Wave Height Low (ft)	2
D9	18 Mar 2017	High Tide (ft)	2.7
D9	18 Mar 2017	High Tide Time	1409
D9	18 Mar 2017	Low Tide (ft)	1.1
D9	18 Mar 2017	Low Tide Time	805
D9	18 Mar 2017	Comments	Kelp; Seagrass; Algae; 4 Persons; Water turbid
D9	24 Mar 2017	Arrive Time	1208
D9	24 Mar 2017	Weather	Sunny
D9	24 Mar 2017	Wind Speed (kts)	8.7
D9	24 Mar 2017	Wind Dir	W
D9	24 Mar 2017	Animal Life	None
D9	24 Mar 2017	Floatables	None
D9	24 Mar 2017	Water Color	Brown
D9	24 Mar 2017	Current Direction	N
D9	24 Mar 2017	Wave Height Low (ft)	4
D9	24 Mar 2017	High Tide (ft)	4.9
D9	24 Mar 2017	High Tide Time	717
D9	24 Mar 2017	Low Tide (ft)	-0.3
D9	24 Mar 2017	Low Tide Time	1407
D9	24 Mar 2017	Comments	Kelp; Seagrass; Water clear
D9	30 Mar 2017	Arrive Time	848
D9	30 Mar 2017	Weather	Foggy
D9	30 Mar 2017	Wind Speed (kts)	3
D9	30 Mar 2017	Wind Dir	W
D9	30 Mar 2017	Animal Life	None
D9	30 Mar 2017	Floatables	None
D9	30 Mar 2017	Water Color	Green
D9	30 Mar 2017	Current Direction	W
D9	30 Mar 2017	Wave Height Low (ft)	3
D9	30 Mar 2017	High Tide (ft)	4.4
D9	30 Mar 2017	High Tide Time	1134
D9	30 Mar 2017	Low Tide (ft)	-0.5
D9	30 Mar 2017	Low Tide Time	531
D9	30 Mar 2017	Comments	Kelp; Seagrass; Algae; 1 Surfer; Water turbid
D10	01 Mar 2017	Arrive Time	1032
D10	01 Mar 2017	Weather	Sunny
D10	01 Mar 2017	Wind Speed (kts)	3.6
D10	01 Mar 2017	Wind Dir	W
D10	01 Mar 2017	Animal Life	None
D10	01 Mar 2017	Floatables	None
D10	01 Mar 2017	Water Color	Brown
D10	01 Mar 2017	Current Direction	N
D10	01 Mar 2017	Wave Height Low (ft)	3
D10	01 Mar 2017	High Tide (ft)	4.7
D10	01 Mar 2017	High Tide Time	1034

Station	Date	Parameter	Value
D10	01 Mar 2017	Low Tide (ft)	0.4
D10	01 Mar 2017	Low Tide Time	438
D10	01 Mar 2017	Comments	Kelp; Seagrass; Debris; 2 Joggers; 5 Persons; 1 Tractor; Water clear
D10	02 Mar 2017	Arrive Time	1005
D10	02 Mar 2017	Weather	Sunny
D10	02 Mar 2017	Wind Speed (kts)	3
D10	02 Mar 2017	Wind Dir	W
D10	02 Mar 2017	Animal Life	None
D10	02 Mar 2017	Floatables	None
D10	02 Mar 2017	Water Color	Brown
D10	02 Mar 2017	Current Direction	W
D10	02 Mar 2017	Wave Height Low (ft)	3
D10	02 Mar 2017	High Tide (ft)	4.1
D10	02 Mar 2017	High Tide Time	1126
D10	02 Mar 2017	Low Tide (ft)	0.5
D10	02 Mar 2017	Low Tide Time	532
D10	02 Mar 2017	Comments	Kelp; Seagrass; 2 Surfers; Water turbid
D10	06 Mar 2017	Arrive Time	1003
D10	06 Mar 2017	Weather	Sunny
D10	06 Mar 2017	Wind Speed (kts)	4.4
D10	06 Mar 2017	Wind Dir	W
D10	06 Mar 2017	Animal Life	None
D10	06 Mar 2017	Floatables	None
D10	06 Mar 2017	Water Color	Brown
D10	06 Mar 2017	Current Direction	N
D10	06 Mar 2017	Wave Height Low (ft)	3
D10	06 Mar 2017	High Tide (ft)	4.8
D10	06 Mar 2017	High Tide Time	326
D10	06 Mar 2017	Low Tide (ft)	0
D10	06 Mar 2017	Low Tide Time	1106
D10	06 Mar 2017	Comments	Kelp; Seagrass; 5 Persons; 2 Surfers; Water clear
D10	12 Mar 2017	Arrive Time	944
D10	12 Mar 2017	Weather	Cloudy
D10	12 Mar 2017	Wind Speed (kts)	1.9
D10	12 Mar 2017	Wind Dir	W
D10	12 Mar 2017	Animal Life	None
D10	12 Mar 2017	Floatables	None
D10	12 Mar 2017	Water Color	Green
D10	12 Mar 2017	Current Direction	N
D10	12 Mar 2017	Wave Height Low (ft)	4
D10	12 Mar 2017	High Tide (ft)	5.4
D10	12 Mar 2017	High Tide Time	940
D10	12 Mar 2017	Low Tide (ft)	0.4
D10	12 Mar 2017	Low Tide Time	343
D10	12 Mar 2017	Comments	Kelp; Seagrass; Debris; 5 Persons; 8 Surfers; Water clear
D10	18 Mar 2017	Arrive Time	1157
D10	18 Mar 2017	Weather	Sunny
D10	18 Mar 2017	Wind Speed (kts)	4
D10	18 Mar 2017	Wind Dir	NW
D10	18 Mar 2017	Animal Life	None

Station	Date	Parameter	Value
D10	18 Mar 2017	Floatables	None
D10	18 Mar 2017	Water Color	Green
D10	18 Mar 2017	Current Direction	NW
D10	18 Mar 2017	Wave Height Low (ft)	3
D10	18 Mar 2017	High Tide (ft)	2.7
D10	18 Mar 2017	High Tide Time	1409
D10	18 Mar 2017	Low Tide (ft)	1.1
D10	18 Mar 2017	Low Tide Time	805
D10	18 Mar 2017	Comments	Kelp; Seagrass; 9 Surfers; 9 Swimmers; Water turbid
D10	24 Mar 2017	Arrive Time	1218
D10	24 Mar 2017	Weather	Sunny
D10	24 Mar 2017	Wind Speed (kts)	5.8
D10	24 Mar 2017	Wind Dir	W
D10	24 Mar 2017	Animal Life	None
D10	24 Mar 2017	Floatables	None
D10	24 Mar 2017	Water Color	Brown
D10	24 Mar 2017	Current Direction	N
D10	24 Mar 2017	Wave Height Low (ft)	4
D10	24 Mar 2017	High Tide (ft)	4.9
D10	24 Mar 2017	High Tide Time	717
D10	24 Mar 2017	Low Tide (ft)	-0.3
D10	24 Mar 2017	Low Tide Time	1407
D10	24 Mar 2017	Comments	Kelp; Seagrass; 30 Persons; 2 Surfers; 14 Swimmers; Water clear
D10	30 Mar 2017	Arrive Time	833
D10	30 Mar 2017	Weather	Foggy
D10	30 Mar 2017	Wind Speed (kts)	2
D10	30 Mar 2017	Wind Dir	W
D10	30 Mar 2017	Animal Life	None
D10	30 Mar 2017	Floatables	None
D10	30 Mar 2017	Water Color	Green
D10	30 Mar 2017	Current Direction	W
D10	30 Mar 2017	Wave Height Low (ft)	2
D10	30 Mar 2017	High Tide (ft)	4.4
D10	30 Mar 2017	High Tide Time	1134
D10	30 Mar 2017	Low Tide (ft)	-0.5
D10	30 Mar 2017	Low Tide Time	531
D10	30 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D11	01 Mar 2017	Arrive Time	1043
D11	01 Mar 2017	Weather	Sunny
D11	01 Mar 2017	Wind Speed (kts)	2
D11	01 Mar 2017	Wind Dir	NW
D11	01 Mar 2017	Animal Life	None
D11	01 Mar 2017	Floatables	None
D11	01 Mar 2017	Water Color	Brown
D11	01 Mar 2017	Current Direction	N
D11	01 Mar 2017	Wave Height Low (ft)	3
D11	01 Mar 2017	High Tide (ft)	4.7
D11	01 Mar 2017	High Tide Time	1034
D11	01 Mar 2017	Low Tide (ft)	0.4
D11	01 Mar 2017	Low Tide Time	438
D11	01 Mar 2017	Comments	Kelp; Seagrass; Debris; 3 Persons; 3 Surfers; 2 Swimmers; Water clear

Station	Date	Parameter	Value
D11	02 Mar 2017	Arrive Time	1017
D11	02 Mar 2017	Weather	Sunny
D11	02 Mar 2017	Wind Speed (kts)	3
D11	02 Mar 2017	Wind Dir	W
D11	02 Mar 2017	Animal Life	None
D11	02 Mar 2017	Floatables	None
D11	02 Mar 2017	Water Color	Brown
D11	02 Mar 2017	Current Direction	W
D11	02 Mar 2017	Wave Height Low (ft)	3
D11	02 Mar 2017	High Tide (ft)	4.1
D11	02 Mar 2017	High Tide Time	1126
D11	02 Mar 2017	Low Tide (ft)	0.5
D11	02 Mar 2017	Low Tide Time	532
D11	02 Mar 2017	Comments	None
D11	06 Mar 2017	Arrive Time	1016
D11	06 Mar 2017	Weather	Sunny
D11	06 Mar 2017	Wind Speed (kts)	2.9
D11	06 Mar 2017	Wind Dir	W
D11	06 Mar 2017	Animal Life	5 Dogs
D11	06 Mar 2017	Floatables	None
D11	06 Mar 2017	Water Color	Brown
D11	06 Mar 2017	Current Direction	N
D11	06 Mar 2017	Wave Height Low (ft)	3
D11	06 Mar 2017	High Tide (ft)	4.8
D11	06 Mar 2017	High Tide Time	326
D11	06 Mar 2017	Low Tide (ft)	0
D11	06 Mar 2017	Low Tide Time	1106
D11	06 Mar 2017	Comments	Kelp; Seagrass; 7 Persons; 3 Surfers; Water clear
D11	08 Mar 2017	Arrive Time	850
D11	08 Mar 2017	Weather	Sunny
D11	08 Mar 2017	Wind Speed (kts)	1.6
D11	08 Mar 2017	Wind Dir	W
D11	08 Mar 2017	Animal Life	None
D11	08 Mar 2017	Floatables	None
D11	08 Mar 2017	Water Color	Green
D11	08 Mar 2017	Current Direction	W
D11	08 Mar 2017	Wave Height Low (ft)	2
D11	08 Mar 2017	High Tide (ft)	5.3
D11	08 Mar 2017	High Tide Time	544
D11	08 Mar 2017	Low Tide (ft)	-0.7
D11	08 Mar 2017	Low Tide Time	1254
D11	08 Mar 2017	Comments	3 Persons; 7 Surfers; Water clear
D11	12 Mar 2017	Arrive Time	953
D11	12 Mar 2017	Weather	Cloudy
D11	12 Mar 2017	Wind Speed (kts)	2.7
D11	12 Mar 2017	Wind Dir	W
D11	12 Mar 2017	Animal Life	None
D11	12 Mar 2017	Floatables	None
D11	12 Mar 2017	Water Color	Green
D11	12 Mar 2017	Current Direction	N
D11	12 Mar 2017	Wave Height Low (ft)	3

Station	Date	Parameter	Value
D11	12 Mar 2017	High Tide (ft)	5.4
D11	12 Mar 2017	High Tide Time	940
D11	12 Mar 2017	Low Tide (ft)	0.4
D11	12 Mar 2017	Low Tide Time	343
D11	12 Mar 2017	Comments	Kelp; Seagrass; Debris; 1 Jogger; 5 Persons; 16 Surfers; Water clear
D11	18 Mar 2017	Arrive Time	1142
D11	18 Mar 2017	Weather	Sunny
D11	18 Mar 2017	Wind Speed (kts)	3
D11	18 Mar 2017	Wind Dir	NW
D11	18 Mar 2017	Animal Life	8 Dogs
D11	18 Mar 2017	Floatables	None
D11	18 Mar 2017	Water Color	Green
D11	18 Mar 2017	Current Direction	NW
D11	18 Mar 2017	Wave Height Low (ft)	2
D11	18 Mar 2017	High Tide (ft)	2.7
D11	18 Mar 2017	High Tide Time	1409
D11	18 Mar 2017	Low Tide (ft)	1.1
D11	18 Mar 2017	Low Tide Time	805
D11	18 Mar 2017	Comments	Kelp; Seagrass; Water turbid
D11	24 Mar 2017	Arrive Time	1227
D11	24 Mar 2017	Weather	Sunny
D11	24 Mar 2017	Wind Speed (kts)	3.7
D11	24 Mar 2017	Wind Dir	W
D11	24 Mar 2017	Animal Life	1 Dog
D11	24 Mar 2017	Floatables	None
D11	24 Mar 2017	Water Color	Green
D11	24 Mar 2017	Current Direction	N
D11	24 Mar 2017	Wave Height Low (ft)	4
D11	24 Mar 2017	High Tide (ft)	4.9
D11	24 Mar 2017	High Tide Time	717
D11	24 Mar 2017	Low Tide (ft)	-0.3
D11	24 Mar 2017	Low Tide Time	1407
D11	24 Mar 2017	Comments	Kelp; Seagrass; Debris; 15 Persons; 7 Surfers; 6 Swimmers; Water clear
D11	30 Mar 2017	Arrive Time	817
D11	30 Mar 2017	Weather	Foggy
D11	30 Mar 2017	Wind Speed (kts)	3
D11	30 Mar 2017	Wind Dir	W
D11	30 Mar 2017	Animal Life	None
D11	30 Mar 2017	Floatables	None
D11	30 Mar 2017	Water Color	Green
D11	30 Mar 2017	Current Direction	W
D11	30 Mar 2017	Wave Height Low (ft)	2
D11	30 Mar 2017	High Tide (ft)	4.4
D11	30 Mar 2017	High Tide Time	1134
D11	30 Mar 2017	Low Tide (ft)	-0.5
D11	30 Mar 2017	Low Tide Time	531
D11	30 Mar 2017	Comments	Kelp; Seagrass; Algae; Water turbid
D12	01 Mar 2017	Arrive Time	1107
D12	01 Mar 2017	Weather	Sunny

Station	Date	Parameter	Value
D12	01 Mar 2017	Wind Speed (kts)	4.8
D12	01 Mar 2017	Wind Dir	W
D12	01 Mar 2017	Animal Life	None
D12	01 Mar 2017	Floatables	None
D12	01 Mar 2017	Water Color	Green
D12	01 Mar 2017	Current Direction	N
D12	01 Mar 2017	Wave Height Low (ft)	3
D12	01 Mar 2017	High Tide (ft)	4.7
D12	01 Mar 2017	High Tide Time	1034
D12	01 Mar 2017	Low Tide (ft)	0.1
D12	01 Mar 2017	Low Tide Time	1655
D12	01 Mar 2017	Comments	Kelp; Seagrass; 15 Persons; 4 Surfers; 2 Swimmers; Water clear
D12	06 Mar 2017	Arrive Time	1044
D12	06 Mar 2017	Weather	Sunny
D12	06 Mar 2017	Wind Speed (kts)	3.3
D12	06 Mar 2017	Wind Dir	W
D12	06 Mar 2017	Animal Life	None
D12	06 Mar 2017	Floatables	None
D12	06 Mar 2017	Water Color	Green
D12	06 Mar 2017	Current Direction	N
D12	06 Mar 2017	Wave Height Low (ft)	3
D12	06 Mar 2017	High Tide (ft)	3.3
D12	06 Mar 2017	High Tide Time	1747
D12	06 Mar 2017	Low Tide (ft)	0
D12	06 Mar 2017	Low Tide Time	1106
D12	06 Mar 2017	Comments	Kelp; Seagrass; 21 Persons; Water clear
D12	12 Mar 2017	Arrive Time	1011
D12	12 Mar 2017	Weather	Cloudy
D12	12 Mar 2017	Wind Speed (kts)	0.5
D12	12 Mar 2017	Wind Dir	W
D12	12 Mar 2017	Animal Life	None
D12	12 Mar 2017	Floatables	None
D12	12 Mar 2017	Water Color	Green
D12	12 Mar 2017	Current Direction	N
D12	12 Mar 2017	Wave Height Low (ft)	3
D12	12 Mar 2017	High Tide (ft)	5.4
D12	12 Mar 2017	High Tide Time	940
D12	12 Mar 2017	Low Tide (ft)	-0.5
D12	12 Mar 2017	Low Tide Time	1611
D12	12 Mar 2017	Comments	Kelp; Seagrass; 12 Joggers; 25 Persons; 3 Surfers; Water clear
D12	18 Mar 2017	Arrive Time	1120
D12	18 Mar 2017	Weather	Foggy
D12	18 Mar 2017	Wind Speed (kts)	3
D12	18 Mar 2017	Wind Dir	NW
D12	18 Mar 2017	Animal Life	None
D12	18 Mar 2017	Floatables	None
D12	18 Mar 2017	Water Color	Green
D12	18 Mar 2017	Current Direction	NW
D12	18 Mar 2017	Wave Height Low (ft)	3
D12	18 Mar 2017	High Tide (ft)	2.7
D12	18 Mar 2017	High Tide Time	1409
D12	18 Mar 2017	Low Tide (ft)	1.1

Station	Date	Parameter	Value
D12	18 Mar 2017	Low Tide Time	805
D12	18 Mar 2017	Comments	Kelp; Seagrass; Water clear
D12	24 Mar 2017	Arrive Time	1248
D12	24 Mar 2017	Weather	Sunny
D12	24 Mar 2017	Wind Speed (kts)	5.8
D12	24 Mar 2017	Wind Dir	W
D12	24 Mar 2017	Animal Life	None
D12	24 Mar 2017	Floatables	None
D12	24 Mar 2017	Water Color	Brown
D12	24 Mar 2017	Current Direction	N
D12	24 Mar 2017	Wave Height Low (ft)	3
D12	24 Mar 2017	High Tide (ft)	4.9
D12	24 Mar 2017	High Tide Time	717
D12	24 Mar 2017	Low Tide (ft)	-0.3
D12	24 Mar 2017	Low Tide Time	1407
D12	24 Mar 2017	Comments	Kelp; Seagrass; 2 Joggers; 80 Persons; 16 Swimmers; Water clear
D12	30 Mar 2017	Arrive Time	756
D12	30 Mar 2017	Weather	Sunny
D12	30 Mar 2017	Wind Speed (kts)	2
D12	30 Mar 2017	Wind Dir	E
D12	30 Mar 2017	Animal Life	None
D12	30 Mar 2017	Floatables	None
D12	30 Mar 2017	Water Color	Green
D12	30 Mar 2017	Current Direction	E
D12	30 Mar 2017	Wave Height Low (ft)	1
D12	30 Mar 2017	High Tide (ft)	4.4
D12	30 Mar 2017	High Tide Time	1134
D12	30 Mar 2017	Low Tide (ft)	-0.5
D12	30 Mar 2017	Low Tide Time	531
D12	30 Mar 2017	Comments	Kelp; Seagrass; 2 Surfers; Water turbid

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Mar 2017	3*	8*	5*	9*	4*	3*	5*	6*
02 Mar 2017	3*	8*	5*	9*	4*	3*	5*	6*
03 Mar 2017	4	10	6	9	4	3	6	9
04 Mar 2017	4	10	6	9	4	3	6	9
05 Mar 2017	4	10	6	9	4	3	6	9
06 Mar 2017	4*	15*	4*	7*	2*	2*	6*	9*
07 Mar 2017	4*	15*	4*	7*	2*	2*	6*	9*
08 Mar 2017	6*	22*	5*	12*	2*	2*	7*	14*
09 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
10 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
11 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
12 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
13 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
14 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
15 Mar 2017	11*	19*	6*	7*	2*	2*	8*	13*
16 Mar 2017	19*	9*	7*	12*	2*	2*	13*	18*
17 Mar 2017	19*	9*	7*	12*	2*	2*	13*	18*
18 Mar 2017	11*	6*	5*	8*	2*	2*	8*	10*
19 Mar 2017	11*	6*	5*	8*	2*	2*	8*	10*
20 Mar 2017	11*	6*	5*	8*	2*	2*	8*	10*
21 Mar 2017	11*	6*	5*	8*	2*	2*	8*	10*
22 Mar 2017	8	5	4	6	2	2	6	8
23 Mar 2017	8	5	4	6	2	2	6	8
24 Mar 2017	8	5	4	6	2	2	6	8
25 Mar 2017	8	5	4	6	2	2	6	8
26 Mar 2017	14	10	9	3	2	2	6	5
27 Mar 2017	14	10	9	3	2	2	6	5
28 Mar 2017	14	10	9	3	2	2	6	5
29 Mar 2017	14	10	9	3	2	2	6	5
30 Mar 2017	14	10	9	3	2	2	6	5
31 Mar 2017	14	10	9	3	2	2	6	5

* 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 PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Mar 2017	2*	4*	2*	2*	2*	2*	2*	2*
02 Mar 2017	2*	4*	2*	2*	2*	2*	2*	2*
03 Mar 2017	2	4	2	2	2	2	2	2
04 Mar 2017	2	4	2	2	2	2	2	2
05 Mar 2017	2	4	2	2	2	2	2	2
06 Mar 2017	2*	5*	2*	2*	2*	2*	2*	2*
07 Mar 2017	2*	5*	2*	2*	2*	2*	2*	2*
08 Mar 2017	2*	7*	2*	2*	2*	2*	2*	3*
09 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
10 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
11 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
12 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
13 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
14 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
15 Mar 2017	3*	5*	2*	2*	2*	2*	2*	3*
16 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
17 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
18 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
19 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
20 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
21 Mar 2017	3*	3*	2*	2*	2*	2*	2*	3*
22 Mar 2017	3	3	2	2	2	2	2	2
23 Mar 2017	3	3	2	2	2	2	2	2
24 Mar 2017	3	3	2	2	2	2	2	2
25 Mar 2017	3	3	2	2	2	2	2	2
26 Mar 2017	3	3	3	2	2	2	2	2
27 Mar 2017	3	3	3	2	2	2	2	2
28 Mar 2017	3	3	3	2	2	2	2	2
29 Mar 2017	3	3	3	2	2	2	2	2
30 Mar 2017	3	3	3	2	2	2	2	2
31 Mar 2017	3	3	3	2	2	2	2	2

* 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 PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
01 Mar 2017	2*	2*	2*	2*	2*	2*	2*	2*
02 Mar 2017	2*	2*	2*	2*	2*	2*	2*	2*
03 Mar 2017	3	2	2	2	2	2	2	3
04 Mar 2017	3	2	2	2	2	2	2	3
05 Mar 2017	3	2	2	2	2	2	2	3
06 Mar 2017	3*	2*	2*	2*	2*	2*	2*	3*
07 Mar 2017	3*	2*	2*	2*	2*	2*	2*	3*
08 Mar 2017	3*	3*	2*	2*	2*	2*	2*	4*
09 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
10 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
11 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
12 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
13 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
14 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
15 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
16 Mar 2017	4*	3*	3*	2*	2*	2*	3*	4*
17 Mar 2017	4*	3*	3*	2*	2*	2*	3*	4*
18 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
19 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
20 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
21 Mar 2017	4*	3*	3*	2*	2*	2*	2*	3*
22 Mar 2017	3	3	3	2	2	2	2	3
23 Mar 2017	3	3	3	2	2	2	2	3
24 Mar 2017	3	3	3	2	2	2	2	3
25 Mar 2017	3	3	3	2	2	2	2	3
26 Mar 2017	4	4	4	2	2	2	2	3
27 Mar 2017	4	4	4	2	2	2	2	3
28 Mar 2017	4	4	4	2	2	2	2	3
29 Mar 2017	4	4	4	2	2	2	2	3
30 Mar 2017	4	4	4	2	2	2	2	3
31 Mar 2017	4	4	4	2	2	2	2	3

* Geometric mean calculated using n<5

Table 3.4

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
03 Mar 2017	IC							
09 Mar 2017	IC							
18 Mar 2017	IC							
22 Mar 2017	IC							
26 Mar 2017	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.5

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
03 Mar 2017	IC							
09 Mar 2017	IC							
18 Mar 2017	IC							
22 Mar 2017	IC							
26 Mar 2017	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.6

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
03 Mar 2017	IC							
09 Mar 2017	IC							
18 Mar 2017	IC							
22 Mar 2017	IC							
26 Mar 2017	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.7

Summary of compliance at the PLOO 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	A1	A6	A7	C4	C5	C6	C7	C8
03 Mar 2017	IC							
09 Mar 2017	IC							
18 Mar 2017	IC							
22 Mar 2017	IC							
26 Mar 2017	IC							

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.8

Summary of water quality parameters at the PLOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; ammonium (N-NH₃) values are reported as mg/L; values for temperature (Temp, °C), transmissivity (XMS, %), dissolved oxygen (DO, mg/L), salinity (Sal, ppt) and pH were extracted from CTD profile data for depths closest to those at which the bacteriological samples were collected. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	N-NH ₃	Temp	XMS	DO	Sal	pH
A1	03 Mar 2017	844	1	<2	2e	<2	1.00	ns	14.5	80.45	8.0	32.84	8.0
A1	03 Mar 2017	844	12	16e	2e	4e	0.12	ns	12.4	75.97	5.0	33.40	7.9
A1	03 Mar 2017	844	18	14e	4e	8e	0.29	ns	12.3	73.16	5.4	33.40	7.9
A1	09 Mar 2017	751	1	2e	<2	<2	1.00	ns	14.4	74.34	7.9	33.04	8.0
A1	09 Mar 2017	751	12	8e	<2	<2	0.25	ns	11.8	79.89	4.1	33.50	7.8
A1	09 Mar 2017	751	18	190e	10e	16e	0.05	ns	11.0	72.55	4.1	33.58	7.8
A1	18 Mar 2017	808	1	<2	<2	<2	1.00	ns	15.6	78.77	8.6	33.15	8.1
A1	18 Mar 2017	808	12	<2	<2	<2	1.00	ns	14.6	78.27	7.6	33.24	8.1
A1	18 Mar 2017	808	18	2e	<2	<2	1.00	ns	13.7	81.35	6.3	33.31	8.0
A1	22 Mar 2017	802	1	2e	<2	2e	1.00	ns	15.9	79.51	8.0	33.09	8.1
A1	22 Mar 2017	802	12	<2	<2	<2	1.00	ns	14.6	80.31	6.5	33.29	8.0
A1	22 Mar 2017	802	18	2e	<2	<2	1.00	ns	14.0	83.65	6.2	33.31	8.0
A1	26 Mar 2017	752	1	<2	<2	<2	1.00	ns	15.5	73.80	7.8	33.25	8.1
A1	26 Mar 2017	752	12	320e	8e	12e	0.02	ns	11.6	78.55	4.4	33.45	7.8
A1	26 Mar 2017	752	18	260e	16e	8e	0.06	ns	11.1	58.77	4.2	33.48	7.8
C4	03 Mar 2017	1021	1	<2	<2	<2	1.00	ns	15.0	76.64	8.0	32.62	8.1
C4	03 Mar 2017	1021	3	4e	<2	2e	0.50	ns	14.6	77.37	6.8	32.79	8.1
C4	03 Mar 2017	1021	9	28e	6e	2e	0.21	ns	13.9	83.97	6.5	33.16	8.0
C4	09 Mar 2017	925	1	<2	<2	<2	1.00	ns	15.1	73.20	7.8	33.04	8.1
C4	09 Mar 2017	925	3	<2	<2	<2	1.00	ns	14.8	72.55	7.5	33.05	8.1
C4	09 Mar 2017	925	9	2e	<2	<2	1.00	ns	13.5	78.46	4.7	33.24	8.0
C4	18 Mar 2017	954	1	<2	<2	<2	1.00	ns	15.8	77.51	8.4	33.19	8.2
C4	18 Mar 2017	954	3	<2	<2	<2	1.00	ns	15.6	76.77	7.9	33.26	8.1
C4	18 Mar 2017	954	9	4e	<2	<2	0.50	ns	13.9	85.30	5.7	33.33	8.0
C4	22 Mar 2017	945	1	<2	<2	<2	1.00	ns	16.5	77.78	8.6	33.10	8.2
C4	22 Mar 2017	945	3	2e	<2	<2	1.00	ns	16.3	77.97	8.0	33.13	8.2
C4	22 Mar 2017	945	9	<2	<2	<2	1.00	ns	15.1	80.26	6.4	33.31	8.1
C4	26 Mar 2017	922	1	<2	<2	<2	1.00	ns	15.9	72.25	7.7	33.28	8.1
C4	26 Mar 2017	922	3	2e	<2	<2	1.00	ns	15.9	72.38	6.3	33.28	8.1
C4	26 Mar 2017	922	9	2e	<2	<2	1.00	ns	13.1	79.25	4.3	33.37	7.9
C5	03 Mar 2017	1009	1	<2	<2	<2	1.00	ns	14.9	77.24	8.2	32.59	8.1
C5	03 Mar 2017	1009	3	4e	<2	<2	0.50	ns	14.7	77.31	7.4	32.66	8.1
C5	03 Mar 2017	1009	9	4e	<2	<2	0.50	ns	13.9	85.75	6.2	33.19	8.0
C5	09 Mar 2017	916	1	<2	<2	<2	1.00	ns	15.1	71.88	7.4	33.06	8.1
C5	09 Mar 2017	916	3	2e	<2	<2	1.00	ns	14.9	70.42	6.7	33.08	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	N-NH3	Temp	XMS	DO	Sal	pH
C5	09 Mar 2017	916	9	2e	<2	<2	1.00	ns	13.5	67.23	5.2	33.37	8.0
C5	18 Mar 2017	942	1	2e	4e	<2	2.00	ns	15.9	78.05	8.7	33.23	8.2
C5	18 Mar 2017	942	3	<2	<2	<2	1.00	ns	15.9	78.77	8.3	33.23	8.2
C5	18 Mar 2017	942	9	<2	<2	<2	1.00	ns	13.9	84.40	6.4	33.31	8.0
C5	22 Mar 2017	934	1	<2	<2	<2	1.00	ns	16.8	80.39	9.0	33.19	8.2
C5	22 Mar 2017	934	3	<2	<2	<2	1.00	ns	16.8	78.26	8.8	33.21	8.2
C5	22 Mar 2017	934	9	<2	<2	<2	1.00	ns	14.8	76.53	7.3	33.32	8.1
C5	26 Mar 2017	911	1	<2	<2	<2	1.00	ns	15.8	70.61	7.2	33.27	8.1
C5	26 Mar 2017	911	3	<2	<2	<2	1.00	ns	15.6	70.16	5.9	33.28	8.1
C5	26 Mar 2017	911	9	4e	2e	<2	0.50	ns	12.8	78.41	4.8	33.38	7.9
A6	03 Mar 2017	909	1	4e	<2	<2	0.50	ns	14.8	76.23	8.0	32.62	8.1
A6	03 Mar 2017	909	12	22e	<20	4e	0.91	ns	13.0	83.75	5.4	33.31	7.9
A6	03 Mar 2017	909	18	64	2e	4e	0.03	ns	12.1	79.77	5.2	33.41	7.9
A6	09 Mar 2017	814	1	<2	<2	<2	1.00	ns	15.0	73.94	8.2	32.99	8.1
A6	09 Mar 2017	814	12	<2	<2	<2	1.00	ns	13.7	82.18	4.9	33.27	8.0
A6	09 Mar 2017	814	18	36e	4e	6e	0.11	ns	11.5	78.76	4.6	33.49	7.8
A6	18 Mar 2017	836	1	2e	<2	<2	1.00	ns	15.7	84.00	8.5	33.16	8.2
A6	18 Mar 2017	836	12	<2	<2	<2	1.00	ns	14.1	85.11	7.5	33.28	8.1
A6	18 Mar 2017	836	18	<2	<2	<2	1.00	ns	14.0	85.48	7.3	33.29	8.1
A6	22 Mar 2017	831	1	<2	<2	8e	1.00	ns	16.4	81.21	8.7	33.17	8.2
A6	22 Mar 2017	831	12	<2	<2	<2	1.00	ns	15.8	83.44	7.9	33.22	8.1
A6	22 Mar 2017	831	18	2e	<2	<2	1.00	ns	14.7	84.72	7.0	33.28	8.1
A6	26 Mar 2017	818	1	4e	<2	<2	0.50	ns	15.6	71.88	7.8	33.26	8.1
A6	26 Mar 2017	818	12	180e	8e	22e	0.04	ns	12.0	78.95	4.6	33.43	7.9
A6	26 Mar 2017	818	18	20e	<2	2e	0.10	ns	11.3	59.93	4.5	33.46	7.8
C6	03 Mar 2017	958	1	2e	<2	<2	1.00	ns	15.2	71.58	8.4	32.38	8.1
C6	03 Mar 2017	958	3	<2	<2	<2	1.00	ns	14.9	64.70	7.5	32.52	8.1
C6	03 Mar 2017	958	9	<2	<2	<2	1.00	ns	14.2	84.94	6.9	33.14	8.0
C6	09 Mar 2017	858	1	<2	<2	<2	1.00	ns	15.0	71.83	8.0	33.03	8.1
C6	09 Mar 2017	858	3	<2	<2	<2	1.00	ns	15.0	71.27	7.5	33.03	8.1
C6	09 Mar 2017	858	9	<2	<2	<2	1.00	ns	13.3	82.69	4.6	33.30	7.9
C6	18 Mar 2017	931	1	<2	<2	<2	1.00	ns	15.9	79.86	8.8	33.22	8.2
C6	18 Mar 2017	931	3	<2	<2	<2	1.00	ns	15.9	78.89	8.3	33.23	8.2
C6	18 Mar 2017	931	9	6e	<2	<2	0.33	ns	13.8	84.57	5.8	33.34	8.0
C6	22 Mar 2017	921	1	<2	<2	<2	1.00	ns	16.7	79.52	8.7	33.09	8.2
C6	22 Mar 2017	921	3	<2	<2	<2	1.00	ns	16.8	84.76	8.7	33.18	8.2
C6	22 Mar 2017	921	9	<2	<2	<2	1.00	ns	14.8	84.76	7.4	33.33	8.1
C6	26 Mar 2017	900	1	<2	<2	2e	1.00	ns	15.8	70.58	7.7	33.25	8.1
C6	26 Mar 2017	900	3	<2	<2	<2	1.00	ns	15.5	69.40	6.1	33.27	8.1
C6	26 Mar 2017	900	9	2e	<2	<2	1.00	ns	13.2	73.17	4.9	33.37	7.9
A7	03 Mar 2017	857	1	2e	<2	<2	1.00	ns	14.4	82.33	7.6	32.91	8.0

Station	Date	Time	Depth	Total	Fecal	Enteroto	F:T	N-NH3	Temp	XMS	DO	Sal	pH
A7	03 Mar 2017	857	12	24e	<2	2e	0.08	ns	12.3	80.36	4.8	33.43	7.9
A7	03 Mar 2017	857	18	12e	<2	2e	0.17	ns	12.1	77.38	5.2	33.42	7.9
A7	09 Mar 2017	804	1	<2	<2	<2	1.00	ns	14.7	73.97	7.8	33.00	8.1
A7	09 Mar 2017	804	12	6e	<2	<2	0.33	ns	12.8	83.12	4.5	33.44	7.9
A7	09 Mar 2017	804	18	20e	6e	14e	0.30	ns	10.9	77.81	3.9	33.62	7.8
A7	18 Mar 2017	823	1	4e	<2	<2	0.50	ns	15.6	83.41	8.5	33.15	8.1
A7	18 Mar 2017	823	12	<2	<2	<2	1.00	ns	14.7	81.30	7.8	33.26	8.1
A7	18 Mar 2017	823	18	<2	<2	<2	1.00	ns	14.0	83.98	6.5	33.30	8.0
A7	22 Mar 2017	817	1	<2	<2	<2	1.00	ns	16.3	77.21	8.5	33.14	8.2
A7	22 Mar 2017	817	12	<2	<2	2e	1.00	ns	15.6	79.19	7.8	33.18	8.1
A7	22 Mar 2017	817	18	<2	<2	14e	1.00	ns	14.3	86.42	6.7	33.29	8.0
A7	26 Mar 2017	806	1	<2	<2	<2	1.00	ns	15.6	73.42	7.9	33.27	8.1
A7	26 Mar 2017	806	12	48	6e	2e	0.12	ns	12.0	80.43	4.4	33.42	7.9
A7	26 Mar 2017	806	18	200e	12e	18e	0.06	ns	11.2	61.07	4.4	33.46	7.8
C7	03 Mar 2017	926	1	<2	2e	<2	1.00	ns	14.7	81.35	7.8	32.83	8.1
C7	03 Mar 2017	926	12	18e	4e	6e	0.22	ns	13.3	84.40	5.4	33.30	8.0
C7	03 Mar 2017	926	18	22e	<2	2e	0.09	ns	12.4	81.33	5.5	33.38	7.9
C7	09 Mar 2017	830	1	<2	<2	<2	1.00	ns	15.1	77.26	8.3	33.10	8.1
C7	09 Mar 2017	830	12	2e	<2	<2	1.00	ns	13.4	81.67	5.7	33.29	8.0
C7	09 Mar 2017	830	18	28e	<2	4e	0.07	ns	11.8	83.76	5.1	33.43	7.9
C7	18 Mar 2017	853	1	2e	<2	<2	1.00	ns	15.8	83.49	8.6	33.20	8.2
C7	18 Mar 2017	853	12	<2	<2	<2	1.00	ns	14.5	82.39	8.0	33.25	8.1
C7	18 Mar 2017	853	18	<2	<2	<2	1.00	ns	13.6	83.83	7.2	33.36	8.0
C7	22 Mar 2017	845	1	<2	<2	2e	1.00	ns	16.6	83.58	8.7	33.16	8.2
C7	22 Mar 2017	845	12	<2	<2	2e	1.00	ns	15.8	83.04	8.7	33.22	8.2
C7	22 Mar 2017	845	18	<2	<2	<2	1.00	ns	14.0	85.24	6.1	33.32	8.0
C7	26 Mar 2017	832	1	<2	<2	<2	1.00	ns	15.7	74.05	7.0	33.25	8.1
C7	26 Mar 2017	832	12	10e	<2	<2	0.20	ns	12.6	84.37	5.0	33.37	7.9
C7	26 Mar 2017	832	18	22e	<2	<2	0.09	ns	12.1	72.85	4.9	33.40	7.9
C8	03 Mar 2017	940	1	<2	<2	<2	1.00	ns	14.8	82.25	7.9	32.90	8.1
C8	03 Mar 2017	940	12	68	8e	18e	0.12	ns	14.0	76.00	6.0	33.22	8.0
C8	03 Mar 2017	940	18	62	2e	22e	0.03	ns	12.4	74.48	5.4	33.39	7.9
C8	09 Mar 2017	840	1	<2	<2	<2	1.00	ns	15.0	75.96	8.3	33.04	8.1
C8	09 Mar 2017	840	12	12e	4e	2e	0.33	ns	13.6	84.06	6.0	33.27	8.0
C8	09 Mar 2017	840	18	14e	<2	2e	0.14	ns	12.4	84.96	5.1	33.39	7.9
C8	18 Mar 2017	905	1	<2	<2	<2	1.00	ns	15.7	84.60	8.9	32.91	8.2
C8	18 Mar 2017	905	12	<2	<2	<2	1.00	ns	14.9	83.98	8.3	33.22	8.1
C8	18 Mar 2017	905	18	2e	<2	<2	1.00	ns	13.7	84.49	6.6	33.33	8.0
C8	22 Mar 2017	857	1	<2	<2	<2	1.00	ns	16.8	81.82	6.7	32.85	8.2
C8	22 Mar 2017	857	12	<2	<2	<2	1.00	ns	15.1	83.27	8.2	33.31	8.2
C8	22 Mar 2017	857	18	<2	<2	<2	1.00	ns	14.0	84.23	6.1	33.39	8.0

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	N-NH3	Temp	XMS	DO	Sal	pH
C8	26 Mar 2017	843	1	<2	<2	<2	1.00	ns	15.9	74.72	7.7	33.25	8.2
C8	26 Mar 2017	843	12	<2	<2	<2	1.00	ns	12.6	85.88	5.4	33.37	7.9
C8	26 Mar 2017	843	18	<2	<2	<2	1.00	ns	12.4	73.00	5.1	33.39	7.9

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
A1	03 Mar 2017	Depth (m)	18
A1	03 Mar 2017	Arrive Time	844
A1	03 Mar 2017	Depart Time	851
A1	03 Mar 2017	Air Temp (C)	15
A1	03 Mar 2017	Weather	Clear
A1	03 Mar 2017	Visibility (mi)	9
A1	03 Mar 2017	Wind Speed (kts)	0
A1	03 Mar 2017	Wind Dir	
A1	03 Mar 2017	Water Color	Bluish-Green
A1	03 Mar 2017	Wave Ht Low (ft)	2
A1	03 Mar 2017	Wave Period (sec)	13
A1	03 Mar 2017	Sea State	Calm
A1	03 Mar 2017	High Tide (ft)	3.4
A1	03 Mar 2017	High Tide Time	1234
A1	03 Mar 2017	Low Tide (ft)	0.6
A1	03 Mar 2017	Low Tide Time	639
A1	03 Mar 2017	Comments	
A1	09 Mar 2017	Depth (m)	18
A1	09 Mar 2017	Arrive Time	751
A1	09 Mar 2017	Depart Time	756
A1	09 Mar 2017	Air Temp (C)	15
A1	09 Mar 2017	Weather	Clear
A1	09 Mar 2017	Visibility (mi)	10
A1	09 Mar 2017	Wind Speed (kts)	1
A1	09 Mar 2017	Wind Dir	SW
A1	09 Mar 2017	Water Color	Green
A1	09 Mar 2017	Wave Ht Low (ft)	3
A1	09 Mar 2017	Wave Period (sec)	13
A1	09 Mar 2017	Sea State	Wind ripples
A1	09 Mar 2017	High Tide (ft)	5.5
A1	09 Mar 2017	High Tide Time	636
A1	09 Mar 2017	Low Tide (ft)	-0.9
A1	09 Mar 2017	Low Tide Time	1333
A1	09 Mar 2017	Comments	Kelp; Lobster floats
A1	18 Mar 2017	Depth (m)	18
A1	18 Mar 2017	Arrive Time	808
A1	18 Mar 2017	Depart Time	813
A1	18 Mar 2017	Air Temp (C)	13
A1	18 Mar 2017	Weather	Fog
A1	18 Mar 2017	Visibility (mi)	< 1
A1	18 Mar 2017	Wind Speed (kts)	2
A1	18 Mar 2017	Wind Dir	S
A1	18 Mar 2017	Water Color	Green
A1	18 Mar 2017	Wave Ht Low (ft)	3
A1	18 Mar 2017	Wave Period (sec)	9
A1	18 Mar 2017	Sea State	Calm
A1	18 Mar 2017	High Tide (ft)	2.7
A1	18 Mar 2017	High Tide Time	1409
A1	18 Mar 2017	Low Tide (ft)	1.1

Station	Date	Parameter	Value
A1	18 Mar 2017	Low Tide Time	805
A1	18 Mar 2017	Comments	Kelp
A1	22 Mar 2017	Depth (m)	19
A1	22 Mar 2017	Arrive Time	802
A1	22 Mar 2017	Depart Time	808
A1	22 Mar 2017	Air Temp (C)	16
A1	22 Mar 2017	Weather	Rain
A1	22 Mar 2017	Visibility (mi)	1
A1	22 Mar 2017	Wind Speed (kts)	7
A1	22 Mar 2017	Wind Dir	NW
A1	22 Mar 2017	Water Color	Brownish-Green
A1	22 Mar 2017	Wave Ht Low (ft)	3
A1	22 Mar 2017	Wave Period (sec)	11
A1	22 Mar 2017	Sea State	Calm
A1	22 Mar 2017	High Tide (ft)	4.1
A1	22 Mar 2017	High Tide Time	539
A1	22 Mar 2017	Low Tide (ft)	0.3
A1	22 Mar 2017	Low Tide Time	1259
A1	22 Mar 2017	Comments	
A1	26 Mar 2017	Depth (m)	18
A1	26 Mar 2017	Arrive Time	752
A1	26 Mar 2017	Depart Time	757
A1	26 Mar 2017	Air Temp (C)	15
A1	26 Mar 2017	Weather	Overcast
A1	26 Mar 2017	Visibility (mi)	6
A1	26 Mar 2017	Wind Speed (kts)	4
A1	26 Mar 2017	Wind Dir	W
A1	26 Mar 2017	Water Color	Green
A1	26 Mar 2017	Wave Ht Low (ft)	5
A1	26 Mar 2017	Wave Period (sec)	9
A1	26 Mar 2017	Sea State	Calm
A1	26 Mar 2017	High Tide (ft)	5.4
A1	26 Mar 2017	High Tide Time	837
A1	26 Mar 2017	Low Tide (ft)	-0.6
A1	26 Mar 2017	Low Tide Time	1509
A1	26 Mar 2017	Comments	Kelp
C4	03 Mar 2017	Depth (m)	10
C4	03 Mar 2017	Arrive Time	1021
C4	03 Mar 2017	Depart Time	1025
C4	03 Mar 2017	Air Temp (C)	16
C4	03 Mar 2017	Weather	Clear
C4	03 Mar 2017	Visibility (mi)	11
C4	03 Mar 2017	Wind Speed (kts)	1
C4	03 Mar 2017	Wind Dir	N
C4	03 Mar 2017	Water Color	Greenish-Brown
C4	03 Mar 2017	Wave Ht Low (ft)	2
C4	03 Mar 2017	Wave Period (sec)	13
C4	03 Mar 2017	Sea State	Calm
C4	03 Mar 2017	High Tide (ft)	3.4
C4	03 Mar 2017	High Tide Time	1234
C4	03 Mar 2017	Low Tide (ft)	0.6
C4	03 Mar 2017	Low Tide Time	639

Station	Date	Parameter	Value
C4	03 Mar 2017	Comments	
C4	09 Mar 2017	Depth (m)	10
C4	09 Mar 2017	Arrive Time	925
C4	09 Mar 2017	Depart Time	929
C4	09 Mar 2017	Air Temp (C)	16
C4	09 Mar 2017	Weather	Clear
C4	09 Mar 2017	Visibility (mi)	12
C4	09 Mar 2017	Wind Speed (kts)	2
C4	09 Mar 2017	Wind Dir	E
C4	09 Mar 2017	Water Color	Green
C4	09 Mar 2017	Wave Ht Low (ft)	3
C4	09 Mar 2017	Wave Period (sec)	13
C4	09 Mar 2017	Sea State	Wind ripples
C4	09 Mar 2017	High Tide (ft)	5.5
C4	09 Mar 2017	High Tide Time	636
C4	09 Mar 2017	Low Tide (ft)	-0.9
C4	09 Mar 2017	Low Tide Time	1333
C4	09 Mar 2017	Comments	Kelp
C4	18 Mar 2017	Depth (m)	9
C4	18 Mar 2017	Arrive Time	954
C4	18 Mar 2017	Depart Time	1000
C4	18 Mar 2017	Air Temp (C)	14
C4	18 Mar 2017	Weather	Fog
C4	18 Mar 2017	Visibility (mi)	< 1
C4	18 Mar 2017	Wind Speed (kts)	4
C4	18 Mar 2017	Wind Dir	NE
C4	18 Mar 2017	Water Color	Green
C4	18 Mar 2017	Wave Ht Low (ft)	3
C4	18 Mar 2017	Wave Period (sec)	9
C4	18 Mar 2017	Sea State	Calm
C4	18 Mar 2017	High Tide (ft)	2.7
C4	18 Mar 2017	High Tide Time	1409
C4	18 Mar 2017	Low Tide (ft)	1.1
C4	18 Mar 2017	Low Tide Time	805
C4	18 Mar 2017	Comments	
C4	22 Mar 2017	Depth (m)	10
C4	22 Mar 2017	Arrive Time	945
C4	22 Mar 2017	Depart Time	951
C4	22 Mar 2017	Air Temp (C)	16
C4	22 Mar 2017	Weather	Drizzle
C4	22 Mar 2017	Visibility (mi)	10
C4	22 Mar 2017	Wind Speed (kts)	5
C4	22 Mar 2017	Wind Dir	N
C4	22 Mar 2017	Water Color	Brownish-Green
C4	22 Mar 2017	Wave Ht Low (ft)	3
C4	22 Mar 2017	Wave Period (sec)	11
C4	22 Mar 2017	Sea State	Light chop
C4	22 Mar 2017	High Tide (ft)	4.1
C4	22 Mar 2017	High Tide Time	539
C4	22 Mar 2017	Low Tide (ft)	0.3
C4	22 Mar 2017	Low Tide Time	1259
C4	22 Mar 2017	Comments	Kelp

Station	Date	Parameter	Value
C4	26 Mar 2017	Depth (m)	12
C4	26 Mar 2017	Arrive Time	922
C4	26 Mar 2017	Depart Time	929
C4	26 Mar 2017	Air Temp (C)	15
C4	26 Mar 2017	Weather	Overcast
C4	26 Mar 2017	Visibility (mi)	9
C4	26 Mar 2017	Wind Speed (kts)	3
C4	26 Mar 2017	Wind Dir	W
C4	26 Mar 2017	Water Color	Green
C4	26 Mar 2017	Wave Ht Low (ft)	5
C4	26 Mar 2017	Wave Period (sec)	9
C4	26 Mar 2017	Sea State	Calm
C4	26 Mar 2017	High Tide (ft)	5.4
C4	26 Mar 2017	High Tide Time	837
C4	26 Mar 2017	Low Tide (ft)	-0.6
C4	26 Mar 2017	Low Tide Time	1509
C4	26 Mar 2017	Comments	Kelp
C5	03 Mar 2017	Depth (m)	9
C5	03 Mar 2017	Arrive Time	1009
C5	03 Mar 2017	Depart Time	1016
C5	03 Mar 2017	Air Temp (C)	16
C5	03 Mar 2017	Weather	Clear
C5	03 Mar 2017	Visibility (mi)	11
C5	03 Mar 2017	Wind Speed (kts)	0
C5	03 Mar 2017	Wind Dir	
C5	03 Mar 2017	Water Color	Greenish-Brown
C5	03 Mar 2017	Wave Ht Low (ft)	2
C5	03 Mar 2017	Wave Period (sec)	13
C5	03 Mar 2017	Sea State	Calm
C5	03 Mar 2017	High Tide (ft)	3.4
C5	03 Mar 2017	High Tide Time	1234
C5	03 Mar 2017	Low Tide (ft)	0.6
C5	03 Mar 2017	Low Tide Time	639
C5	03 Mar 2017	Comments	
C5	09 Mar 2017	Depth (m)	11
C5	09 Mar 2017	Arrive Time	916
C5	09 Mar 2017	Depart Time	921
C5	09 Mar 2017	Air Temp (C)	16
C5	09 Mar 2017	Weather	Clear
C5	09 Mar 2017	Visibility (mi)	12
C5	09 Mar 2017	Wind Speed (kts)	2
C5	09 Mar 2017	Wind Dir	SW
C5	09 Mar 2017	Water Color	Green
C5	09 Mar 2017	Wave Ht Low (ft)	3
C5	09 Mar 2017	Wave Period (sec)	13
C5	09 Mar 2017	Sea State	Wind ripples
C5	09 Mar 2017	High Tide (ft)	5.5
C5	09 Mar 2017	High Tide Time	636
C5	09 Mar 2017	Low Tide (ft)	-0.9
C5	09 Mar 2017	Low Tide Time	1333
C5	09 Mar 2017	Comments	Kelp; Lobster floats

Station	Date	Parameter	Value
C5	18 Mar 2017	Depth (m)	10
C5	18 Mar 2017	Arrive Time	942
C5	18 Mar 2017	Depart Time	945
C5	18 Mar 2017	Air Temp (C)	14
C5	18 Mar 2017	Weather	Fog
C5	18 Mar 2017	Visibility (mi)	< 1
C5	18 Mar 2017	Wind Speed (kts)	2
C5	18 Mar 2017	Wind Dir	NE
C5	18 Mar 2017	Water Color	Green
C5	18 Mar 2017	Wave Ht Low (ft)	3
C5	18 Mar 2017	Wave Period (sec)	9
C5	18 Mar 2017	Sea State	Calm
C5	18 Mar 2017	High Tide (ft)	2.7
C5	18 Mar 2017	High Tide Time	1409
C5	18 Mar 2017	Low Tide (ft)	1.1
C5	18 Mar 2017	Low Tide Time	805
C5	18 Mar 2017	Comments	Kelp
C5	22 Mar 2017	Depth (m)	11
C5	22 Mar 2017	Arrive Time	934
C5	22 Mar 2017	Depart Time	940
C5	22 Mar 2017	Air Temp (C)	16
C5	22 Mar 2017	Weather	Drizzle
C5	22 Mar 2017	Visibility (mi)	10
C5	22 Mar 2017	Wind Speed (kts)	5
C5	22 Mar 2017	Wind Dir	SE
C5	22 Mar 2017	Water Color	Brownish-Green
C5	22 Mar 2017	Wave Ht Low (ft)	3
C5	22 Mar 2017	Wave Period (sec)	11
C5	22 Mar 2017	Sea State	Light chop
C5	22 Mar 2017	High Tide (ft)	4.1
C5	22 Mar 2017	High Tide Time	539
C5	22 Mar 2017	Low Tide (ft)	0.3
C5	22 Mar 2017	Low Tide Time	1259
C5	22 Mar 2017	Comments	Kelp
C5	26 Mar 2017	Depth (m)	10
C5	26 Mar 2017	Arrive Time	911
C5	26 Mar 2017	Depart Time	916
C5	26 Mar 2017	Air Temp (C)	15
C5	26 Mar 2017	Weather	Overcast
C5	26 Mar 2017	Visibility (mi)	9
C5	26 Mar 2017	Wind Speed (kts)	4
C5	26 Mar 2017	Wind Dir	NE
C5	26 Mar 2017	Water Color	Green
C5	26 Mar 2017	Wave Ht Low (ft)	5
C5	26 Mar 2017	Wave Period (sec)	9
C5	26 Mar 2017	Sea State	Calm
C5	26 Mar 2017	High Tide (ft)	5.4
C5	26 Mar 2017	High Tide Time	837
C5	26 Mar 2017	Low Tide (ft)	-0.6
C5	26 Mar 2017	Low Tide Time	1509
C5	26 Mar 2017	Comments	Kelp
A6	03 Mar 2017	Depth (m)	18

Station	Date	Parameter	Value
A6	03 Mar 2017	Arrive Time	909
A6	03 Mar 2017	Depart Time	916
A6	03 Mar 2017	Air Temp (C)	15
A6	03 Mar 2017	Weather	Clear
A6	03 Mar 2017	Visibility (mi)	9
A6	03 Mar 2017	Wind Speed (kts)	10
A6	03 Mar 2017	Wind Dir	NE
A6	03 Mar 2017	Water Color	Greenish-Brown
A6	03 Mar 2017	Wave Ht Low (ft)	2
A6	03 Mar 2017	Wave Period (sec)	13
A6	03 Mar 2017	Sea State	Calm
A6	03 Mar 2017	High Tide (ft)	3.4
A6	03 Mar 2017	High Tide Time	1234
A6	03 Mar 2017	Low Tide (ft)	0.6
A6	03 Mar 2017	Low Tide Time	639
A6	03 Mar 2017	Comments	
A6	09 Mar 2017	Depth (m)	18
A6	09 Mar 2017	Arrive Time	814
A6	09 Mar 2017	Depart Time	819
A6	09 Mar 2017	Air Temp (C)	15
A6	09 Mar 2017	Weather	Clear
A6	09 Mar 2017	Visibility (mi)	10
A6	09 Mar 2017	Wind Speed (kts)	0
A6	09 Mar 2017	Wind Dir	
A6	09 Mar 2017	Water Color	Green
A6	09 Mar 2017	Wave Ht Low (ft)	3
A6	09 Mar 2017	Wave Period (sec)	13
A6	09 Mar 2017	Sea State	Wind ripples
A6	09 Mar 2017	High Tide (ft)	5.5
A6	09 Mar 2017	High Tide Time	636
A6	09 Mar 2017	Low Tide (ft)	-0.9
A6	09 Mar 2017	Low Tide Time	1333
A6	09 Mar 2017	Comments	Kelp debris
A6	18 Mar 2017	Depth (m)	19
A6	18 Mar 2017	Arrive Time	836
A6	18 Mar 2017	Depart Time	845
A6	18 Mar 2017	Air Temp (C)	14
A6	18 Mar 2017	Weather	Fog
A6	18 Mar 2017	Visibility (mi)	< 1
A6	18 Mar 2017	Wind Speed (kts)	1
A6	18 Mar 2017	Wind Dir	NW
A6	18 Mar 2017	Water Color	Green
A6	18 Mar 2017	Wave Ht Low (ft)	3
A6	18 Mar 2017	Wave Period (sec)	9
A6	18 Mar 2017	Sea State	Calm
A6	18 Mar 2017	High Tide (ft)	2.7
A6	18 Mar 2017	High Tide Time	1409
A6	18 Mar 2017	Low Tide (ft)	1.1
A6	18 Mar 2017	Low Tide Time	805
A6	18 Mar 2017	Comments	Kelp
A6	22 Mar 2017	Depth (m)	20
A6	22 Mar 2017	Arrive Time	831

Station	Date	Parameter	Value
A6	22 Mar 2017	Depart Time	836
A6	22 Mar 2017	Air Temp (C)	16
A6	22 Mar 2017	Weather	Drizzle
A6	22 Mar 2017	Visibility (mi)	10
A6	22 Mar 2017	Wind Speed (kts)	5
A6	22 Mar 2017	Wind Dir	E
A6	22 Mar 2017	Water Color	Brownish-Green
A6	22 Mar 2017	Wave Ht Low (ft)	3
A6	22 Mar 2017	Wave Period (sec)	11
A6	22 Mar 2017	Sea State	Light chop
A6	22 Mar 2017	High Tide (ft)	4.1
A6	22 Mar 2017	High Tide Time	539
A6	22 Mar 2017	Low Tide (ft)	0.3
A6	22 Mar 2017	Low Tide Time	1259
A6	22 Mar 2017	Comments	
A6	26 Mar 2017	Depth (m)	18
A6	26 Mar 2017	Arrive Time	818
A6	26 Mar 2017	Depart Time	824
A6	26 Mar 2017	Air Temp (C)	15
A6	26 Mar 2017	Weather	Overcast
A6	26 Mar 2017	Visibility (mi)	6
A6	26 Mar 2017	Wind Speed (kts)	4
A6	26 Mar 2017	Wind Dir	NE
A6	26 Mar 2017	Water Color	Green
A6	26 Mar 2017	Wave Ht Low (ft)	5
A6	26 Mar 2017	Wave Period (sec)	9
A6	26 Mar 2017	Sea State	Calm
A6	26 Mar 2017	High Tide (ft)	5.4
A6	26 Mar 2017	High Tide Time	837
A6	26 Mar 2017	Low Tide (ft)	-0.6
A6	26 Mar 2017	Low Tide Time	1509
A6	26 Mar 2017	Comments	Kelp
C6	03 Mar 2017	Depth (m)	9
C6	03 Mar 2017	Arrive Time	958
C6	03 Mar 2017	Depart Time	1003
C6	03 Mar 2017	Air Temp (C)	16
C6	03 Mar 2017	Weather	Clear
C6	03 Mar 2017	Visibility (mi)	11
C6	03 Mar 2017	Wind Speed (kts)	0
C6	03 Mar 2017	Wind Dir	
C6	03 Mar 2017	Water Color	Greenish-Brown
C6	03 Mar 2017	Wave Ht Low (ft)	2
C6	03 Mar 2017	Wave Period (sec)	13
C6	03 Mar 2017	Sea State	Calm
C6	03 Mar 2017	High Tide (ft)	3.4
C6	03 Mar 2017	High Tide Time	1234
C6	03 Mar 2017	Low Tide (ft)	0.6
C6	03 Mar 2017	Low Tide Time	639
C6	03 Mar 2017	Comments	
C6	09 Mar 2017	Depth (m)	10
C6	09 Mar 2017	Arrive Time	858
C6	09 Mar 2017	Depart Time	910

Station	Date	Parameter	Value
C6	09 Mar 2017	Air Temp (C)	16
C6	09 Mar 2017	Weather	Clear
C6	09 Mar 2017	Visibility (mi)	12
C6	09 Mar 2017	Wind Speed (kts)	0
C6	09 Mar 2017	Wind Dir	
C6	09 Mar 2017	Water Color	Green
C6	09 Mar 2017	Wave Ht Low (ft)	3
C6	09 Mar 2017	Wave Period (sec)	13
C6	09 Mar 2017	Sea State	Wind ripples
C6	09 Mar 2017	High Tide (ft)	5.5
C6	09 Mar 2017	High Tide Time	636
C6	09 Mar 2017	Low Tide (ft)	-0.9
C6	09 Mar 2017	Low Tide Time	1333
C6	09 Mar 2017	Comments	Lobster floats
C6	18 Mar 2017	Depth (m)	9
C6	18 Mar 2017	Arrive Time	931
C6	18 Mar 2017	Depart Time	933
C6	18 Mar 2017	Air Temp (C)	14
C6	18 Mar 2017	Weather	Fog
C6	18 Mar 2017	Visibility (mi)	< 1
C6	18 Mar 2017	Wind Speed (kts)	2
C6	18 Mar 2017	Wind Dir	SE
C6	18 Mar 2017	Water Color	Green
C6	18 Mar 2017	Wave Ht Low (ft)	3
C6	18 Mar 2017	Wave Period (sec)	9
C6	18 Mar 2017	Sea State	Calm
C6	18 Mar 2017	High Tide (ft)	2.7
C6	18 Mar 2017	High Tide Time	1409
C6	18 Mar 2017	Low Tide (ft)	1.1
C6	18 Mar 2017	Low Tide Time	805
C6	18 Mar 2017	Comments	
C6	22 Mar 2017	Depth (m)	9
C6	22 Mar 2017	Arrive Time	921
C6	22 Mar 2017	Depart Time	925
C6	22 Mar 2017	Air Temp (C)	16
C6	22 Mar 2017	Weather	Drizzle
C6	22 Mar 2017	Visibility (mi)	10
C6	22 Mar 2017	Wind Speed (kts)	7
C6	22 Mar 2017	Wind Dir	NW
C6	22 Mar 2017	Water Color	Brownish-Green
C6	22 Mar 2017	Wave Ht Low (ft)	3
C6	22 Mar 2017	Wave Period (sec)	11
C6	22 Mar 2017	Sea State	Light chop
C6	22 Mar 2017	High Tide (ft)	4.1
C6	22 Mar 2017	High Tide Time	539
C6	22 Mar 2017	Low Tide (ft)	0.3
C6	22 Mar 2017	Low Tide Time	1259
C6	22 Mar 2017	Comments	Kelp
C6	26 Mar 2017	Depth (m)	10
C6	26 Mar 2017	Arrive Time	900
C6	26 Mar 2017	Depart Time	904
C6	26 Mar 2017	Air Temp (C)	15

Station	Date	Parameter	Value
C6	26 Mar 2017	Weather	Overcast
C6	26 Mar 2017	Visibility (mi)	8
C6	26 Mar 2017	Wind Speed (kts)	4
C6	26 Mar 2017	Wind Dir	S
C6	26 Mar 2017	Water Color	Green
C6	26 Mar 2017	Wave Ht Low (ft)	5
C6	26 Mar 2017	Wave Period (sec)	9
C6	26 Mar 2017	Sea State	Calm
C6	26 Mar 2017	High Tide (ft)	5.4
C6	26 Mar 2017	High Tide Time	837
C6	26 Mar 2017	Low Tide (ft)	-0.6
C6	26 Mar 2017	Low Tide Time	1509
C6	26 Mar 2017	Comments	Kelp; Boats
A7	03 Mar 2017	Depth (m)	18
A7	03 Mar 2017	Arrive Time	857
A7	03 Mar 2017	Depart Time	902
A7	03 Mar 2017	Air Temp (C)	15
A7	03 Mar 2017	Weather	Clear
A7	03 Mar 2017	Visibility (mi)	9
A7	03 Mar 2017	Wind Speed (kts)	10
A7	03 Mar 2017	Wind Dir	SE
A7	03 Mar 2017	Water Color	Bluish-Green
A7	03 Mar 2017	Wave Ht Low (ft)	2
A7	03 Mar 2017	Wave Period (sec)	13
A7	03 Mar 2017	Sea State	Calm
A7	03 Mar 2017	High Tide (ft)	3.4
A7	03 Mar 2017	High Tide Time	1234
A7	03 Mar 2017	Low Tide (ft)	0.6
A7	03 Mar 2017	Low Tide Time	639
A7	03 Mar 2017	Comments	
A7	09 Mar 2017	Depth (m)	20
A7	09 Mar 2017	Arrive Time	804
A7	09 Mar 2017	Depart Time	809
A7	09 Mar 2017	Air Temp (C)	15
A7	09 Mar 2017	Weather	Clear
A7	09 Mar 2017	Visibility (mi)	10
A7	09 Mar 2017	Wind Speed (kts)	1
A7	09 Mar 2017	Wind Dir	NE
A7	09 Mar 2017	Water Color	Green
A7	09 Mar 2017	Wave Ht Low (ft)	3
A7	09 Mar 2017	Wave Period (sec)	13
A7	09 Mar 2017	Sea State	Wind ripples
A7	09 Mar 2017	High Tide (ft)	5.5
A7	09 Mar 2017	High Tide Time	636
A7	09 Mar 2017	Low Tide (ft)	-0.9
A7	09 Mar 2017	Low Tide Time	1333
A7	09 Mar 2017	Comments	Kelp; CDOM spike - could be sensor error
A7	18 Mar 2017	Depth (m)	19
A7	18 Mar 2017	Arrive Time	823
A7	18 Mar 2017	Depart Time	829
A7	18 Mar 2017	Air Temp (C)	14
A7	18 Mar 2017	Weather	Fog

Station	Date	Parameter	Value
A7	18 Mar 2017	Visibility (mi)	< 1
A7	18 Mar 2017	Wind Speed (kts)	1
A7	18 Mar 2017	Wind Dir	E
A7	18 Mar 2017	Water Color	Green
A7	18 Mar 2017	Wave Ht Low (ft)	3
A7	18 Mar 2017	Wave Period (sec)	9
A7	18 Mar 2017	Sea State	Calm
A7	18 Mar 2017	High Tide (ft)	2.7
A7	18 Mar 2017	High Tide Time	1409
A7	18 Mar 2017	Low Tide (ft)	1.1
A7	18 Mar 2017	Low Tide Time	805
A7	18 Mar 2017	Comments	Kelp
A7	22 Mar 2017	Depth (m)	20
A7	22 Mar 2017	Arrive Time	817
A7	22 Mar 2017	Depart Time	822
A7	22 Mar 2017	Air Temp (C)	16
A7	22 Mar 2017	Weather	Drizzle
A7	22 Mar 2017	Visibility (mi)	10
A7	22 Mar 2017	Wind Speed (kts)	8
A7	22 Mar 2017	Wind Dir	S
A7	22 Mar 2017	Water Color	Brownish-Green
A7	22 Mar 2017	Wave Ht Low (ft)	3
A7	22 Mar 2017	Wave Period (sec)	11
A7	22 Mar 2017	Sea State	Calm
A7	22 Mar 2017	High Tide (ft)	4.1
A7	22 Mar 2017	High Tide Time	539
A7	22 Mar 2017	Low Tide (ft)	0.3
A7	22 Mar 2017	Low Tide Time	1259
A7	22 Mar 2017	Comments	
A7	26 Mar 2017	Depth (m)	18
A7	26 Mar 2017	Arrive Time	806
A7	26 Mar 2017	Depart Time	809
A7	26 Mar 2017	Air Temp (C)	15
A7	26 Mar 2017	Weather	Overcast
A7	26 Mar 2017	Visibility (mi)	6
A7	26 Mar 2017	Wind Speed (kts)	4
A7	26 Mar 2017	Wind Dir	W
A7	26 Mar 2017	Water Color	Green
A7	26 Mar 2017	Wave Ht Low (ft)	5
A7	26 Mar 2017	Wave Period (sec)	9
A7	26 Mar 2017	Sea State	Calm
A7	26 Mar 2017	High Tide (ft)	5.4
A7	26 Mar 2017	High Tide Time	837
A7	26 Mar 2017	Low Tide (ft)	-0.6
A7	26 Mar 2017	Low Tide Time	1509
A7	26 Mar 2017	Comments	Kelp
C7	03 Mar 2017	Depth (m)	18
C7	03 Mar 2017	Arrive Time	926
C7	03 Mar 2017	Depart Time	930
C7	03 Mar 2017	Air Temp (C)	15
C7	03 Mar 2017	Weather	Clear
C7	03 Mar 2017	Visibility (mi)	11

Station	Date	Parameter	Value
C7	03 Mar 2017	Wind Speed (kts)	6
C7	03 Mar 2017	Wind Dir	NE
C7	03 Mar 2017	Water Color	Greenish-Brown
C7	03 Mar 2017	Wave Ht Low (ft)	2
C7	03 Mar 2017	Wave Period (sec)	13
C7	03 Mar 2017	Sea State	Calm
C7	03 Mar 2017	High Tide (ft)	3.4
C7	03 Mar 2017	High Tide Time	1234
C7	03 Mar 2017	Low Tide (ft)	0.6
C7	03 Mar 2017	Low Tide Time	639
C7	03 Mar 2017	Comments	
C7	09 Mar 2017	Depth (m)	18
C7	09 Mar 2017	Arrive Time	830
C7	09 Mar 2017	Depart Time	835
C7	09 Mar 2017	Air Temp (C)	16
C7	09 Mar 2017	Weather	Clear
C7	09 Mar 2017	Visibility (mi)	10
C7	09 Mar 2017	Wind Speed (kts)	0
C7	09 Mar 2017	Wind Dir	
C7	09 Mar 2017	Water Color	Green
C7	09 Mar 2017	Wave Ht Low (ft)	3
C7	09 Mar 2017	Wave Period (sec)	13
C7	09 Mar 2017	Sea State	Wind ripples
C7	09 Mar 2017	High Tide (ft)	5.5
C7	09 Mar 2017	High Tide Time	636
C7	09 Mar 2017	Low Tide (ft)	-0.9
C7	09 Mar 2017	Low Tide Time	1333
C7	09 Mar 2017	Comments	Kelp debris
C7	18 Mar 2017	Depth (m)	19
C7	18 Mar 2017	Arrive Time	853
C7	18 Mar 2017	Depart Time	857
C7	18 Mar 2017	Air Temp (C)	13
C7	18 Mar 2017	Weather	Fog
C7	18 Mar 2017	Visibility (mi)	< 1
C7	18 Mar 2017	Wind Speed (kts)	1
C7	18 Mar 2017	Wind Dir	SW
C7	18 Mar 2017	Water Color	Green
C7	18 Mar 2017	Wave Ht Low (ft)	3
C7	18 Mar 2017	Wave Period (sec)	9
C7	18 Mar 2017	Sea State	Calm
C7	18 Mar 2017	High Tide (ft)	2.7
C7	18 Mar 2017	High Tide Time	1409
C7	18 Mar 2017	Low Tide (ft)	1.1
C7	18 Mar 2017	Low Tide Time	805
C7	18 Mar 2017	Comments	Kelp
C7	22 Mar 2017	Depth (m)	18
C7	22 Mar 2017	Arrive Time	845
C7	22 Mar 2017	Depart Time	849
C7	22 Mar 2017	Air Temp (C)	16
C7	22 Mar 2017	Weather	Drizzle
C7	22 Mar 2017	Visibility (mi)	10
C7	22 Mar 2017	Wind Speed (kts)	7

Station	Date	Parameter	Value
C7	22 Mar 2017	Wind Dir	W
C7	22 Mar 2017	Water Color	Brownish-Green
C7	22 Mar 2017	Wave Ht Low (ft)	3
C7	22 Mar 2017	Wave Period (sec)	11
C7	22 Mar 2017	Sea State	Light chop
C7	22 Mar 2017	High Tide (ft)	4.1
C7	22 Mar 2017	High Tide Time	539
C7	22 Mar 2017	Low Tide (ft)	0.3
C7	22 Mar 2017	Low Tide Time	1259
C7	22 Mar 2017	Comments	
C7	26 Mar 2017	Depth (m)	18
C7	26 Mar 2017	Arrive Time	832
C7	26 Mar 2017	Depart Time	839
C7	26 Mar 2017	Air Temp (C)	15
C7	26 Mar 2017	Weather	Overcast
C7	26 Mar 2017	Visibility (mi)	8
C7	26 Mar 2017	Wind Speed (kts)	5
C7	26 Mar 2017	Wind Dir	E
C7	26 Mar 2017	Water Color	Green
C7	26 Mar 2017	Wave Ht Low (ft)	5
C7	26 Mar 2017	Wave Period (sec)	9
C7	26 Mar 2017	Sea State	Calm
C7	26 Mar 2017	High Tide (ft)	5.4
C7	26 Mar 2017	High Tide Time	837
C7	26 Mar 2017	Low Tide (ft)	-0.6
C7	26 Mar 2017	Low Tide Time	1509
C7	26 Mar 2017	Comments	Kelp
C8	03 Mar 2017	Depth (m)	18
C8	03 Mar 2017	Arrive Time	940
C8	03 Mar 2017	Depart Time	943
C8	03 Mar 2017	Air Temp (C)	15
C8	03 Mar 2017	Weather	Clear
C8	03 Mar 2017	Visibility (mi)	11
C8	03 Mar 2017	Wind Speed (kts)	2
C8	03 Mar 2017	Wind Dir	SE
C8	03 Mar 2017	Water Color	Greenish-Blue
C8	03 Mar 2017	Wave Ht Low (ft)	2
C8	03 Mar 2017	Wave Period (sec)	13
C8	03 Mar 2017	Sea State	Calm
C8	03 Mar 2017	High Tide (ft)	3.4
C8	03 Mar 2017	High Tide Time	1234
C8	03 Mar 2017	Low Tide (ft)	0.6
C8	03 Mar 2017	Low Tide Time	639
C8	03 Mar 2017	Comments	
C8	09 Mar 2017	Depth (m)	20
C8	09 Mar 2017	Arrive Time	840
C8	09 Mar 2017	Depart Time	844
C8	09 Mar 2017	Air Temp (C)	16
C8	09 Mar 2017	Weather	Clear
C8	09 Mar 2017	Visibility (mi)	10
C8	09 Mar 2017	Wind Speed (kts)	3
C8	09 Mar 2017	Wind Dir	E

Station	Date	Parameter	Value
C8	09 Mar 2017	Water Color	Green
C8	09 Mar 2017	Wave Ht Low (ft)	3
C8	09 Mar 2017	Wave Period (sec)	13
C8	09 Mar 2017	Sea State	Wind ripples
C8	09 Mar 2017	High Tide (ft)	5.5
C8	09 Mar 2017	High Tide Time	636
C8	09 Mar 2017	Low Tide (ft)	-0.9
C8	09 Mar 2017	Low Tide Time	1333
C8	09 Mar 2017	Comments	
C8	18 Mar 2017	Depth (m)	19
C8	18 Mar 2017	Arrive Time	905
C8	18 Mar 2017	Depart Time	930
C8	18 Mar 2017	Air Temp (C)	13
C8	18 Mar 2017	Weather	Fog
C8	18 Mar 2017	Visibility (mi)	< 1
C8	18 Mar 2017	Wind Speed (kts)	1
C8	18 Mar 2017	Wind Dir	SW
C8	18 Mar 2017	Water Color	Green
C8	18 Mar 2017	Wave Ht Low (ft)	3
C8	18 Mar 2017	Wave Period (sec)	9
C8	18 Mar 2017	Sea State	Calm
C8	18 Mar 2017	High Tide (ft)	2.7
C8	18 Mar 2017	High Tide Time	1409
C8	18 Mar 2017	Low Tide (ft)	1.1
C8	18 Mar 2017	Low Tide Time	805
C8	18 Mar 2017	Comments	Boats
C8	22 Mar 2017	Depth (m)	19
C8	22 Mar 2017	Arrive Time	857
C8	22 Mar 2017	Depart Time	907
C8	22 Mar 2017	Air Temp (C)	16
C8	22 Mar 2017	Weather	Drizzle
C8	22 Mar 2017	Visibility (mi)	10
C8	22 Mar 2017	Wind Speed (kts)	6
C8	22 Mar 2017	Wind Dir	W
C8	22 Mar 2017	Water Color	Brownish-Green
C8	22 Mar 2017	Wave Ht Low (ft)	3
C8	22 Mar 2017	Wave Period (sec)	11
C8	22 Mar 2017	Sea State	Light chop
C8	22 Mar 2017	High Tide (ft)	4.1
C8	22 Mar 2017	High Tide Time	539
C8	22 Mar 2017	Low Tide (ft)	0.3
C8	22 Mar 2017	Low Tide Time	1259
C8	22 Mar 2017	Comments	
C8	26 Mar 2017	Depth (m)	19
C8	26 Mar 2017	Arrive Time	843
C8	26 Mar 2017	Depart Time	847
C8	26 Mar 2017	Air Temp (C)	15
C8	26 Mar 2017	Weather	Overcast
C8	26 Mar 2017	Visibility (mi)	8
C8	26 Mar 2017	Wind Speed (kts)	5
C8	26 Mar 2017	Wind Dir	E
C8	26 Mar 2017	Water Color	Green

Station	Date	Parameter	Value
C8	26 Mar 2017	Wave Ht Low (ft)	5
C8	26 Mar 2017	Wave Period (sec)	9
C8	26 Mar 2017	Sea State	Calm
C8	26 Mar 2017	High Tide (ft)	5.4
C8	26 Mar 2017	High Tide Time	837
C8	26 Mar 2017	Low Tide (ft)	-0.6
C8	26 Mar 2017	Low Tide Time	1509
C8	26 Mar 2017	Comments	Kelp

Table 3.10

Summary of CTD profile data from the PLOO kelp stations for each sample date.

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	03 Mar 2017	1	14.46	80.45	8.0	32.84	8.0	24.4	1.33
A1	03 Mar 2017	2	14.46	80.22	7.9	32.84	8.0	24.4	1.41
A1	03 Mar 2017	3	14.46	80.72	7.6	32.87	8.0	24.4	1.36
A1	03 Mar 2017	4	14.45	81.21	7.2	32.90	8.0	24.5	1.22
A1	03 Mar 2017	5	14.38	81.62	6.8	33.03	8.0	24.6	1.08
A1	03 Mar 2017	6	14.20	83.25	6.5	33.17	8.0	24.7	1.00
A1	03 Mar 2017	7	14.04	85.44	6.0	33.22	8.0	24.8	0.89
A1	03 Mar 2017	8	13.78	86.38	5.5	33.24	8.0	24.9	0.86
A1	03 Mar 2017	9	13.22	86.25	5.2	33.31	7.9	25.0	0.83
A1	03 Mar 2017	10	12.94	84.33	5.0	33.34	7.9	25.1	0.85
A1	03 Mar 2017	11	12.59	82.04	4.9	33.38	7.9	25.2	0.87
A1	03 Mar 2017	12	12.38	75.97	5.0	33.40	7.9	25.3	0.88
A1	03 Mar 2017	13	12.32	72.14	5.2	33.40	7.9	25.3	0.87
A1	03 Mar 2017	14	12.31	73.50	5.2	33.40	7.8	25.3	0.88
A1	03 Mar 2017	15	12.30	74.08	5.3	33.40	7.8	25.3	0.89
A1	03 Mar 2017	16	12.30	73.40	5.3	33.40	7.9	25.3	0.86
A1	03 Mar 2017	17	12.30	72.88	5.3	33.40	7.9	25.3	0.87
A1	03 Mar 2017	18	12.31	73.16	5.4	33.40	7.9	25.3	0.83
A1	09 Mar 2017	1	14.45	74.34	7.9	33.04	8.0	24.6	2.94
A1	09 Mar 2017	2	14.44	75.07	7.8	33.04	8.0	24.6	3.29
A1	09 Mar 2017	3	14.41	74.98	7.3	33.05	8.0	24.6	3.62
A1	09 Mar 2017	4	14.39	74.80	6.9	33.06	8.0	24.6	3.59
A1	09 Mar 2017	5	14.22	74.74	6.8	33.10	8.0	24.7	3.56
A1	09 Mar 2017	6	14.14	74.26	6.7	33.10	8.0	24.7	3.59
A1	09 Mar 2017	7	14.01	74.78	6.3	33.16	8.0	24.8	3.56
A1	09 Mar 2017	8	13.87	75.88	5.5	33.21	8.0	24.8	3.04
A1	09 Mar 2017	9	13.63	77.29	4.5	33.26	8.0	24.9	2.19
A1	09 Mar 2017	10	12.94	78.76	4.0	33.38	7.9	25.2	1.62
A1	09 Mar 2017	11	12.09	79.16	3.9	33.49	7.9	25.4	1.33
A1	09 Mar 2017	12	11.78	79.89	4.1	33.50	7.8	25.5	1.07
A1	09 Mar 2017	13	11.77	79.71	4.4	33.48	7.8	25.4	0.91
A1	09 Mar 2017	14	11.77	79.48	4.4	33.47	7.8	25.4	0.79
A1	09 Mar 2017	15	11.76	78.44	4.3	33.47	7.8	25.4	0.70
A1	09 Mar 2017	16	11.65	78.87	4.1	33.49	7.8	25.5	0.64
A1	09 Mar 2017	17	11.30	78.39	4.0	33.55	7.8	25.6	0.54
A1	09 Mar 2017	18	10.98	72.55	4.1	33.58	7.8	25.7	0.52
A1	18 Mar 2017	1	15.58	78.77	8.6	33.15	8.1	24.4	4.76
A1	18 Mar 2017	2	15.57	78.71	8.4	33.16	8.1	24.4	4.99
A1	18 Mar 2017	3	15.53	78.66	8.2	33.18	8.1	24.5	5.33
A1	18 Mar 2017	4	15.45	78.86	8.0	33.19	8.1	24.5	5.41
A1	18 Mar 2017	5	15.29	79.32	7.9	33.22	8.1	24.5	5.38
A1	18 Mar 2017	6	15.12	79.59	7.8	33.23	8.1	24.6	5.03
A1	18 Mar 2017	7	15.00	79.73	7.8	33.23	8.1	24.6	4.90
A1	18 Mar 2017	8	14.87	79.26	7.8	33.23	8.1	24.6	4.81
A1	18 Mar 2017	9	14.80	78.79	7.8	33.23	8.1	24.6	4.57
A1	18 Mar 2017	10	14.77	78.39	7.8	33.23	8.1	24.7	4.39
A1	18 Mar 2017	11	14.72	78.16	7.8	33.23	8.1	24.7	4.23
A1	18 Mar 2017	12	14.64	78.27	7.6	33.24	8.1	24.7	4.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	18 Mar 2017	13	14.58	79.74	7.3	33.25	8.1	24.7	3.75
A1	18 Mar 2017	14	14.47	80.31	6.9	33.26	8.1	24.7	3.26
A1	18 Mar 2017	15	14.21	80.66	6.5	33.29	8.0	24.8	2.75
A1	18 Mar 2017	16	13.98	81.36	6.2	33.30	8.0	24.9	2.32
A1	18 Mar 2017	17	13.67	81.35	6.3	33.31	8.0	25.0	1.86
A1	22 Mar 2017	1	15.87	79.51	8.0	33.09	8.1	24.3	4.73
A1	22 Mar 2017	2	15.85	79.57	7.6	33.10	8.1	24.3	4.63
A1	22 Mar 2017	3	15.81	75.62	7.4	33.09	8.1	24.3	4.62
A1	22 Mar 2017	4	15.79	78.95	7.8	33.10	8.1	24.3	4.62
A1	22 Mar 2017	5	15.75	76.38	8.0	33.12	8.1	24.4	4.61
A1	22 Mar 2017	6	15.66	76.07	8.1	33.11	8.1	24.4	4.74
A1	22 Mar 2017	7	15.63	76.28	7.9	33.11	8.1	24.4	3.83
A1	22 Mar 2017	8	15.38	74.86	7.7	33.21	8.1	24.5	2.62
A1	22 Mar 2017	9	15.16	76.46	7.4	33.23	8.1	24.6	5.62
A1	22 Mar 2017	10	14.95	78.19	7.1	33.26	8.1	24.6	5.64
A1	22 Mar 2017	11	14.85	78.91	6.8	33.27	8.1	24.7	5.43
A1	22 Mar 2017	12	14.65	80.31	6.5	33.29	8.0	24.7	4.64
A1	22 Mar 2017	13	14.42	81.71	6.3	33.32	8.0	24.8	4.35
A1	22 Mar 2017	14	14.20	83.47	6.2	33.33	8.0	24.9	3.57
A1	22 Mar 2017	15	14.10	83.86	6.2	33.33	8.0	24.9	3.06
A1	22 Mar 2017	16	14.00	83.84	6.2	33.32	8.0	24.9	2.01
A1	22 Mar 2017	17	13.99	83.95	6.2	33.32	8.0	24.9	2.55
A1	22 Mar 2017	18	13.99	83.65	6.2	33.31	8.0	24.9	1.55
A1	26 Mar 2017	1	15.51	73.80	7.8	33.25	8.1	24.5	3.09
A1	26 Mar 2017	2	15.50	74.05	7.5	33.27	8.1	24.5	3.18
A1	26 Mar 2017	3	15.32	74.73	6.4	33.34	8.1	24.6	3.66
A1	26 Mar 2017	4	14.65	75.06	5.4	33.43	8.1	24.8	3.43
A1	26 Mar 2017	5	14.07	75.31	4.8	33.43	8.0	25.0	2.81
A1	26 Mar 2017	6	13.11	77.54	4.5	33.50	8.0	25.2	2.13
A1	26 Mar 2017	7	12.64	79.92	4.4	33.47	7.9	25.3	1.62
A1	26 Mar 2017	8	12.41	82.01	4.4	33.45	7.9	25.3	1.23
A1	26 Mar 2017	9	12.14	81.84	4.4	33.47	7.9	25.4	0.98
A1	26 Mar 2017	10	11.69	80.80	4.5	33.50	7.9	25.5	0.81
A1	26 Mar 2017	11	11.63	78.64	4.5	33.47	7.8	25.5	0.71
A1	26 Mar 2017	12	11.59	78.55	4.4	33.45	7.8	25.5	0.63
A1	26 Mar 2017	13	11.46	76.63	4.3	33.47	7.8	25.5	0.58
A1	26 Mar 2017	14	11.36	72.54	4.2	33.47	7.8	25.5	0.58
A1	26 Mar 2017	15	11.28	70.04	4.2	33.47	7.8	25.5	0.56
A1	26 Mar 2017	16	11.20	61.67	4.2	33.48	7.8	25.6	0.58
A1	26 Mar 2017	17	11.14	56.19	4.2	33.49	7.8	25.6	0.55
A1	26 Mar 2017	18	11.13	58.77	4.2	33.48	7.8	25.6	0.59
A1	26 Mar 2017	19	11.13	48.30	4.3	33.48	7.8	25.6	0.65
C4	03 Mar 2017	1	15.01	76.64	8.0	32.62	8.1	24.1	0.80
C4	03 Mar 2017	2	14.87	77.14	7.3	32.64	8.1	24.2	0.72
C4	03 Mar 2017	3	14.55	77.37	6.8	32.79	8.1	24.4	0.72
C4	03 Mar 2017	4	14.32	78.11	6.7	32.93	8.0	24.5	0.83
C4	03 Mar 2017	5	14.15	80.21	6.8	33.02	8.0	24.6	0.86
C4	03 Mar 2017	6	14.07	82.20	6.9	33.06	8.0	24.7	0.85
C4	03 Mar 2017	7	14.03	83.13	6.8	33.10	8.0	24.7	0.85
C4	03 Mar 2017	8	13.96	83.58	6.6	33.14	8.0	24.8	0.75
C4	03 Mar 2017	9	13.88	83.97	6.5	33.16	8.0	24.8	0.62
C4	03 Mar 2017	10	13.77	84.09	6.4	33.19	8.0	24.8	0.54

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C4	03 Mar 2017	11	13.72	83.57	6.6	33.20	8.0	24.9	0.54
C4	09 Mar 2017	1	15.14	73.20	7.8	33.04	8.1	24.4	1.65
C4	09 Mar 2017	2	15.03	73.20	7.7	33.05	8.1	24.5	2.16
C4	09 Mar 2017	3	14.85	72.55	7.5	33.05	8.1	24.5	2.95
C4	09 Mar 2017	4	14.61	73.01	7.0	33.06	8.1	24.6	2.92
C4	09 Mar 2017	5	14.43	74.10	6.3	33.08	8.1	24.6	2.48
C4	09 Mar 2017	6	14.16	74.63	5.7	33.12	8.0	24.7	2.02
C4	09 Mar 2017	7	13.99	75.64	5.2	33.14	8.0	24.8	1.73
C4	09 Mar 2017	8	13.78	76.98	4.7	33.18	8.0	24.8	1.33
C4	09 Mar 2017	9	13.49	78.46	4.7	33.24	8.0	24.9	1.19
C4	09 Mar 2017	10	13.09	80.59	5.6	33.32	7.9	25.1	1.53
C4	09 Mar 2017	11	13.40	79.85	6.4	33.23	7.9	24.9	1.66
C4	18 Mar 2017	1	15.77	77.51	8.4	33.19	8.2	24.4	2.30
C4	18 Mar 2017	2	15.70	77.32	8.2	33.23	8.2	24.5	2.57
C4	18 Mar 2017	3	15.58	76.77	7.9	33.26	8.1	24.5	2.56
C4	18 Mar 2017	4	15.37	77.26	7.3	33.29	8.1	24.6	2.39
C4	18 Mar 2017	5	15.00	79.10	6.5	33.34	8.1	24.7	2.06
C4	18 Mar 2017	6	14.57	81.70	5.7	33.38	8.1	24.8	1.71
C4	18 Mar 2017	7	14.18	84.26	5.4	33.37	8.0	24.9	1.27
C4	18 Mar 2017	8	13.96	85.71	5.5	33.35	8.0	24.9	1.10
C4	18 Mar 2017	9	13.87	85.30	5.7	33.33	8.0	24.9	1.09
C4	18 Mar 2017	10	13.84	83.05	5.8	33.32	8.0	24.9	0.93
C4	22 Mar 2017	1	16.48	77.78	8.6	33.10	8.2	24.2	3.45
C4	22 Mar 2017	2	16.48	78.44	8.4	33.11	8.2	24.2	4.34
C4	22 Mar 2017	3	16.27	77.97	8.0	33.13	8.2	24.2	4.94
C4	22 Mar 2017	4	16.17	76.05	7.7	33.07	8.2	24.2	4.91
C4	22 Mar 2017	5	15.91	76.91	7.9	33.07	8.1	24.3	4.51
C4	22 Mar 2017	6	15.90	78.19	8.2	33.10	8.1	24.3	3.93
C4	22 Mar 2017	7	15.87	78.05	7.9	33.22	8.2	24.4	3.65
C4	22 Mar 2017	8	15.72	78.39	6.9	33.24	8.2	24.5	2.73
C4	22 Mar 2017	9	15.07	80.26	6.4	33.31	8.1	24.7	1.89
C4	22 Mar 2017	10	14.70	80.38	7.2	33.29	8.0	24.7	1.74
C4	26 Mar 2017	1	15.95	72.25	7.7	33.28	8.1	24.4	2.23
C4	26 Mar 2017	2	15.95	72.21	7.3	33.28	8.1	24.4	2.05
C4	26 Mar 2017	3	15.93	72.38	6.3	33.28	8.1	24.4	1.51
C4	26 Mar 2017	4	15.41	72.50	5.5	33.31	8.1	24.6	1.22
C4	26 Mar 2017	5	14.50	73.88	5.3	33.34	8.1	24.8	1.08
C4	26 Mar 2017	6	14.09	78.21	5.1	33.34	8.0	24.9	0.90
C4	26 Mar 2017	7	14.00	80.82	4.6	33.33	8.0	24.9	0.74
C4	26 Mar 2017	8	13.62	81.21	4.3	33.35	8.0	25.0	0.67
C4	26 Mar 2017	9	13.12	79.25	4.3	33.37	7.9	25.1	0.62
C4	26 Mar 2017	10	12.92	73.71	4.9	33.37	7.9	25.1	0.72
C4	26 Mar 2017	11	12.96	71.30	5.2	33.36	7.9	25.1	0.70
C5	03 Mar 2017	1	14.89	77.24	8.2	32.59	8.1	24.1	1.19
C5	03 Mar 2017	2	14.79	77.59	7.9	32.61	8.1	24.2	1.20
C5	03 Mar 2017	3	14.72	77.31	7.4	32.66	8.1	24.2	1.08
C5	03 Mar 2017	4	14.59	77.44	7.0	32.82	8.1	24.4	1.02
C5	03 Mar 2017	5	14.40	80.15	6.9	32.98	8.0	24.5	0.91
C5	03 Mar 2017	6	14.32	80.46	6.7	33.04	8.0	24.6	0.75
C5	03 Mar 2017	7	14.27	80.27	6.4	33.07	8.0	24.6	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C5	03 Mar 2017	8	14.11	84.10	6.2	33.14	8.0	24.7	0.56
C5	03 Mar 2017	9	13.89	85.75	6.2	33.19	8.0	24.8	0.50
C5	03 Mar 2017	10	13.65	85.79	6.4	33.23	8.0	24.9	0.50
C5	09 Mar 2017	1	15.07	71.88	7.4	33.06	8.1	24.5	1.79
C5	09 Mar 2017	2	15.01	71.79	7.0	33.07	8.1	24.5	1.70
C5	09 Mar 2017	3	14.94	70.42	6.7	33.08	8.1	24.5	1.71
C5	09 Mar 2017	4	14.94	68.06	6.8	33.09	8.1	24.5	1.71
C5	09 Mar 2017	5	14.88	60.21	6.9	33.13	8.0	24.6	2.36
C5	09 Mar 2017	6	14.65	60.54	6.8	33.27	8.0	24.7	3.90
C5	09 Mar 2017	7	14.21	56.65	6.2	33.43	8.0	24.9	3.52
C5	09 Mar 2017	8	13.79	55.36	5.6	33.42	8.0	25.0	2.64
C5	09 Mar 2017	9	13.54	67.23	5.2	33.37	8.0	25.0	1.97
C5	09 Mar 2017	10	13.22	70.48	5.4	33.42	7.9	25.1	1.68
C5	09 Mar 2017	11	13.20	68.05	6.0	33.31	7.9	25.0	1.65
C5	18 Mar 2017	1	15.95	78.05	8.7	33.23	8.2	24.4	2.24
C5	18 Mar 2017	2	15.94	78.32	8.5	33.23	8.2	24.4	3.11
C5	18 Mar 2017	3	15.89	78.77	8.3	33.23	8.2	24.4	3.48
C5	18 Mar 2017	4	15.73	78.71	7.9	33.24	8.2	24.5	2.85
C5	18 Mar 2017	5	15.42	78.31	7.4	33.25	8.2	24.5	2.07
C5	18 Mar 2017	6	15.15	78.64	6.8	33.26	8.1	24.6	1.50
C5	18 Mar 2017	7	14.83	80.49	6.4	33.28	8.1	24.7	1.24
C5	18 Mar 2017	8	14.43	83.34	6.2	33.29	8.1	24.8	1.07
C5	18 Mar 2017	9	13.95	84.40	6.4	33.31	8.0	24.9	0.92
C5	22 Mar 2017	1	16.84	80.39	9.0	33.19	8.2	24.2	2.31
C5	22 Mar 2017	2	16.84	81.10	9.0	33.21	8.2	24.2	2.43
C5	22 Mar 2017	3	16.83	78.26	8.8	33.21	8.2	24.2	2.73
C5	22 Mar 2017	4	16.77	78.10	8.6	33.22	8.2	24.2	3.25
C5	22 Mar 2017	5	16.22	74.76	8.4	33.27	8.2	24.4	3.54
C5	22 Mar 2017	6	16.12	70.36	7.8	33.25	8.2	24.4	3.59
C5	22 Mar 2017	7	15.59	70.51	7.3	33.32	8.2	24.5	2.80
C5	22 Mar 2017	8	15.34	72.78	6.8	33.31	8.1	24.6	1.97
C5	22 Mar 2017	9	14.75	76.53	7.3	33.32	8.1	24.7	1.52
C5	22 Mar 2017	10	14.80	78.32	8.2	33.28	8.1	24.7	1.33
C5	26 Mar 2017	1	15.80	70.61	7.2	33.27	8.1	24.5	2.19
C5	26 Mar 2017	2	15.69	70.55	6.8	33.28	8.1	24.5	1.70
C5	26 Mar 2017	3	15.55	70.16	5.9	33.28	8.1	24.5	1.16
C5	26 Mar 2017	4	15.28	70.16	5.0	33.28	8.1	24.6	0.84
C5	26 Mar 2017	5	14.38	70.55	4.7	33.34	8.0	24.8	0.78
C5	26 Mar 2017	6	13.72	73.44	4.6	33.36	8.0	25.0	0.76
C5	26 Mar 2017	7	13.28	78.29	4.6	33.36	8.0	25.1	0.75
C5	26 Mar 2017	8	12.94	79.75	4.7	33.37	7.9	25.1	0.76
C5	26 Mar 2017	9	12.79	78.41	4.8	33.38	7.9	25.2	0.77
C5	26 Mar 2017	10	12.80	75.14	4.8	33.36	7.9	25.2	0.76
C5	26 Mar 2017	11	12.73	73.70	4.9	33.37	7.9	25.2	0.78
A6	03 Mar 2017	1	14.77	76.23	8.0	32.62	8.1	24.2	1.11
A6	03 Mar 2017	2	14.77	76.12	7.6	32.63	8.1	24.2	0.92
A6	03 Mar 2017	3	14.56	76.76	7.3	32.91	8.1	24.5	0.89
A6	03 Mar 2017	4	14.46	80.46	7.1	33.12	8.1	24.6	0.80
A6	03 Mar 2017	5	14.31	84.54	6.9	33.19	8.1	24.7	0.73
A6	03 Mar 2017	6	14.20	85.43	6.7	33.20	8.0	24.8	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	03 Mar 2017	7	14.07	85.14	6.3	33.22	8.0	24.8	0.68
A6	03 Mar 2017	8	13.81	85.43	6.0	33.25	8.0	24.9	0.69
A6	03 Mar 2017	9	13.44	85.37	5.9	33.28	8.0	25.0	0.69
A6	03 Mar 2017	10	13.27	84.54	5.8	33.29	8.0	25.0	0.67
A6	03 Mar 2017	11	13.13	83.97	5.7	33.30	8.0	25.1	0.71
A6	03 Mar 2017	12	13.00	83.75	5.4	33.31	7.9	25.1	0.77
A6	03 Mar 2017	13	12.81	83.10	5.1	33.34	7.9	25.1	0.79
A6	03 Mar 2017	14	12.42	81.65	5.1	33.39	7.9	25.3	0.88
A6	03 Mar 2017	15	12.27	79.74	5.1	33.40	7.9	25.3	0.89
A6	03 Mar 2017	16	12.23	77.91	5.2	33.40	7.9	25.3	0.89
A6	03 Mar 2017	17	12.17	78.13	5.2	33.41	7.9	25.3	0.92
A6	03 Mar 2017	18	12.13	79.77	5.2	33.41	7.9	25.3	0.92
A6	03 Mar 2017	19	12.14	81.47	5.3	33.41	7.9	25.3	0.88
A6	09 Mar 2017	1	15.04	73.94	8.2	32.99	8.1	24.4	3.44
A6	09 Mar 2017	2	15.03	73.88	8.1	33.00	8.1	24.4	4.23
A6	09 Mar 2017	3	15.00	73.15	8.2	33.02	8.1	24.4	4.97
A6	09 Mar 2017	4	14.97	72.42	8.1	33.06	8.1	24.5	4.93
A6	09 Mar 2017	5	14.94	72.25	7.9	33.09	8.1	24.5	4.73
A6	09 Mar 2017	6	14.88	73.92	7.6	33.11	8.1	24.5	4.41
A6	09 Mar 2017	7	14.71	75.99	7.4	33.15	8.1	24.6	4.27
A6	09 Mar 2017	8	14.55	77.48	7.0	33.17	8.1	24.7	3.89
A6	09 Mar 2017	9	14.40	78.23	6.7	33.19	8.1	24.7	3.63
A6	09 Mar 2017	10	14.18	79.00	6.2	33.22	8.1	24.8	3.08
A6	09 Mar 2017	11	13.83	80.07	5.6	33.26	8.0	24.9	2.42
A6	09 Mar 2017	12	13.66	82.18	4.9	33.27	8.0	24.9	1.86
A6	09 Mar 2017	13	13.12	83.89	4.5	33.35	8.0	25.1	1.47
A6	09 Mar 2017	14	12.67	84.80	4.4	33.39	7.9	25.2	1.02
A6	09 Mar 2017	15	12.15	85.52	4.4	33.46	7.9	25.4	1.12
A6	09 Mar 2017	16	11.86	85.29	4.3	33.47	7.9	25.4	0.98
A6	09 Mar 2017	17	11.81	81.08	4.3	33.46	7.8	25.4	0.91
A6	09 Mar 2017	18	11.48	78.76	4.6	33.49	7.8	25.5	0.85
A6	18 Mar 2017	1	15.68	84.00	8.5	33.16	8.2	24.4	2.33
A6	18 Mar 2017	2	15.67	84.09	8.5	33.16	8.2	24.4	2.53
A6	18 Mar 2017	3	15.64	84.11	8.3	33.17	8.2	24.4	2.93
A6	18 Mar 2017	4	15.63	84.23	7.9	33.18	8.2	24.4	3.31
A6	18 Mar 2017	5	15.43	84.36	7.5	33.21	8.2	24.5	3.33
A6	18 Mar 2017	6	14.90	84.07	7.4	33.27	8.1	24.7	3.39
A6	18 Mar 2017	7	14.44	83.79	7.4	33.29	8.1	24.8	3.35
A6	18 Mar 2017	8	14.23	83.98	7.5	33.28	8.1	24.8	3.37
A6	18 Mar 2017	9	14.17	84.38	7.5	33.28	8.1	24.8	3.25
A6	18 Mar 2017	10	14.16	84.72	7.5	33.28	8.1	24.8	3.25
A6	18 Mar 2017	11	14.14	84.89	7.6	33.28	8.1	24.8	3.19
A6	18 Mar 2017	12	14.13	85.11	7.5	33.28	8.1	24.8	3.16
A6	18 Mar 2017	13	14.12	85.02	7.5	33.28	8.1	24.8	3.02
A6	18 Mar 2017	14	14.10	85.18	7.4	33.28	8.1	24.8	2.96
A6	18 Mar 2017	15	14.06	85.16	7.4	33.28	8.1	24.8	2.88
A6	18 Mar 2017	16	14.03	85.25	7.3	33.29	8.1	24.9	2.79
A6	18 Mar 2017	17	14.02	85.32	7.3	33.29	8.1	24.9	2.76
A6	18 Mar 2017	18	14.00	85.48	7.3	33.29	8.1	24.9	2.61
A6	18 Mar 2017	19	13.99	85.44	7.3	33.29	8.1	24.9	2.52
A6	18 Mar 2017	20	13.96	85.23	7.3	33.29	8.0	24.9	2.57
A6	22 Mar 2017	1	16.44	81.21	8.7	33.17	8.2	24.2	2.10

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	22 Mar 2017	2	16.44	83.75	8.7	33.17	8.2	24.2	2.18
A6	22 Mar 2017	3	16.44	84.45	8.7	33.17	8.2	24.2	2.29
A6	22 Mar 2017	4	16.44	84.58	8.7	33.17	8.2	24.2	2.43
A6	22 Mar 2017	5	16.39	84.53	8.7	33.17	8.2	24.3	2.51
A6	22 Mar 2017	6	16.39	84.46	8.7	33.18	8.2	24.3	2.88
A6	22 Mar 2017	7	16.38	84.34	8.6	33.18	8.2	24.3	3.22
A6	22 Mar 2017	8	16.36	84.06	8.5	33.19	8.2	24.3	3.27
A6	22 Mar 2017	9	16.28	83.57	8.2	33.20	8.2	24.3	3.43
A6	22 Mar 2017	10	16.19	83.02	8.0	33.20	8.2	24.3	3.35
A6	22 Mar 2017	11	15.94	83.07	8.0	33.22	8.2	24.4	3.32
A6	22 Mar 2017	12	15.79	83.44	7.9	33.22	8.1	24.4	3.16
A6	22 Mar 2017	13	15.76	83.47	7.6	33.23	8.1	24.4	3.03
A6	22 Mar 2017	14	15.37	83.49	7.6	33.26	8.1	24.5	2.99
A6	22 Mar 2017	15	15.37	84.17	7.6	33.23	8.1	24.5	3.18
A6	22 Mar 2017	16	15.16	84.41	7.4	33.27	8.1	24.6	2.96
A6	22 Mar 2017	17	15.05	83.37	7.0	33.26	8.1	24.6	2.43
A6	22 Mar 2017	18	14.73	84.72	7.0	33.28	8.1	24.7	1.91
A6	26 Mar 2017	1	15.59	71.88	7.8	33.26	8.1	24.5	5.28
A6	26 Mar 2017	2	15.65	71.74	6.8	33.26	8.1	24.5	4.64
A6	26 Mar 2017	3	15.46	71.71	5.5	33.26	8.1	24.5	3.56
A6	26 Mar 2017	4	14.51	72.78	4.7	33.30	8.1	24.8	2.59
A6	26 Mar 2017	5	13.52	75.17	4.5	33.35	8.0	25.0	2.03
A6	26 Mar 2017	6	12.90	77.75	4.6	33.40	7.9	25.2	1.58
A6	26 Mar 2017	7	12.74	79.63	4.7	33.41	7.9	25.2	1.40
A6	26 Mar 2017	8	12.55	80.01	4.8	33.41	7.9	25.3	1.21
A6	26 Mar 2017	9	12.45	80.14	4.8	33.41	7.9	25.3	1.04
A6	26 Mar 2017	10	12.33	79.89	4.8	33.41	7.9	25.3	0.94
A6	26 Mar 2017	11	12.12	79.52	4.7	33.43	7.9	25.3	0.90
A6	26 Mar 2017	12	12.00	78.95	4.6	33.43	7.9	25.4	0.79
A6	26 Mar 2017	13	11.91	77.54	4.5	33.43	7.9	25.4	0.75
A6	26 Mar 2017	14	11.67	75.63	4.4	33.46	7.8	25.5	0.70
A6	26 Mar 2017	15	11.55	72.88	4.4	33.45	7.8	25.5	0.70
A6	26 Mar 2017	16	11.38	68.80	4.4	33.47	7.8	25.5	0.70
A6	26 Mar 2017	17	11.33	62.44	4.4	33.47	7.8	25.5	0.68
A6	26 Mar 2017	18	11.33	59.93	4.5	33.46	7.8	25.5	0.69
A6	26 Mar 2017	19	11.33	58.41	4.5	33.46	7.8	25.5	0.66
A6	26 Mar 2017	20	11.33	60.36	4.5	33.46	7.8	25.5	0.69
A6	26 Mar 2017	21	11.35	58.35	4.5	33.46	7.8	25.5	0.67
C6	03 Mar 2017	1	15.23	71.58	8.4	32.38	8.1	23.9	1.15
C6	03 Mar 2017	2	15.16	69.70	8.1	32.39	8.1	23.9	1.14
C6	03 Mar 2017	3	14.95	64.70	7.5	32.52	8.1	24.1	1.05
C6	03 Mar 2017	4	14.53	65.14	7.2	32.90	8.1	24.5	0.92
C6	03 Mar 2017	5	14.37	76.11	7.0	33.03	8.1	24.6	0.83
C6	03 Mar 2017	6	14.33	81.50	6.7	33.06	8.1	24.6	0.68
C6	03 Mar 2017	7	14.25	83.99	6.6	33.10	8.0	24.7	0.57
C6	03 Mar 2017	8	14.19	84.86	6.8	33.12	8.0	24.7	0.49
C6	03 Mar 2017	9	14.17	84.94	6.9	33.14	8.0	24.7	0.49
C6	09 Mar 2017	1	15.00	71.83	8.0	33.03	8.1	24.5	2.74
C6	09 Mar 2017	2	15.00	71.76	7.9	33.03	8.1	24.5	2.84
C6	09 Mar 2017	3	14.98	71.27	7.5	33.03	8.1	24.5	2.66
C6	09 Mar 2017	4	14.90	71.45	6.9	33.04	8.1	24.5	2.35
C6	09 Mar 2017	5	14.74	72.92	6.2	33.08	8.1	24.6	1.89

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C6	09 Mar 2017	6	14.45	74.87	5.5	33.14	8.1	24.7	1.59
C6	09 Mar 2017	7	13.92	77.80	5.1	33.23	8.0	24.8	1.39
C6	09 Mar 2017	8	13.55	81.44	4.7	33.28	8.0	24.9	1.06
C6	09 Mar 2017	9	13.33	82.69	4.6	33.30	7.9	25.0	0.84
C6	09 Mar 2017	10	13.14	83.53	4.8	33.32	7.9	25.1	0.81
C6	18 Mar 2017	1	15.90	79.86	8.8	33.22	8.2	24.4	2.63
C6	18 Mar 2017	2	15.90	79.47	8.7	33.22	8.2	24.4	3.26
C6	18 Mar 2017	3	15.88	78.89	8.3	33.23	8.2	24.4	3.70
C6	18 Mar 2017	4	15.79	77.70	7.7	33.24	8.2	24.4	3.39
C6	18 Mar 2017	5	15.58	77.00	7.2	33.26	8.2	24.5	2.95
C6	18 Mar 2017	6	15.16	78.94	6.7	33.29	8.1	24.6	2.55
C6	18 Mar 2017	7	14.67	81.21	6.1	33.32	8.1	24.7	2.08
C6	18 Mar 2017	8	14.24	82.40	5.6	33.33	8.1	24.8	1.57
C6	18 Mar 2017	9	13.79	84.57	5.8	33.34	8.0	24.9	1.15
C6	22 Mar 2017	1	16.74	79.52	8.7	33.09	8.2	24.1	1.71
C6	22 Mar 2017	2	16.75	83.40	8.7	33.17	8.2	24.2	1.78
C6	22 Mar 2017	3	16.75	84.76	8.7	33.18	8.2	24.2	1.89
C6	22 Mar 2017	4	16.76	84.69	8.6	33.18	8.2	24.2	1.83
C6	22 Mar 2017	5	16.76	84.78	8.3	33.18	8.2	24.2	1.62
C6	22 Mar 2017	6	16.71	84.99	7.5	33.20	8.2	24.2	1.24
C6	22 Mar 2017	7	16.34	85.52	6.8	33.23	8.2	24.3	0.91
C6	22 Mar 2017	8	15.59	85.29	6.6	33.27	8.1	24.5	0.81
C6	22 Mar 2017	9	14.78	84.76	7.4	33.33	8.1	24.7	0.90
C6	26 Mar 2017	1	15.79	70.58	7.7	33.25	8.1	24.5	3.30
C6	26 Mar 2017	2	15.74	69.24	6.8	33.25	8.1	24.5	2.97
C6	26 Mar 2017	3	15.48	69.40	6.1	33.27	8.1	24.5	2.13
C6	26 Mar 2017	4	15.18	69.84	5.6	33.30	8.1	24.6	1.56
C6	26 Mar 2017	5	14.62	69.20	5.4	33.35	8.0	24.8	1.38
C6	26 Mar 2017	6	13.96	68.33	5.3	33.38	8.0	24.9	1.19
C6	26 Mar 2017	7	13.84	71.02	5.0	33.33	8.0	24.9	1.01
C6	26 Mar 2017	8	13.47	71.85	4.8	33.36	7.9	25.0	0.91
C6	26 Mar 2017	9	13.20	73.17	4.9	33.37	7.9	25.1	0.89
C6	26 Mar 2017	10	13.18	73.34	4.9	33.35	7.9	25.1	0.81
A7	03 Mar 2017	1	14.44	82.33	7.6	32.91	8.0	24.5	0.89
A7	03 Mar 2017	2	14.39	82.99	7.4	32.98	8.0	24.5	0.79
A7	03 Mar 2017	3	14.32	84.36	7.0	33.09	8.0	24.6	0.73
A7	03 Mar 2017	4	14.26	85.18	6.7	33.15	8.0	24.7	0.72
A7	03 Mar 2017	5	14.03	86.02	6.5	33.21	8.0	24.8	0.71
A7	03 Mar 2017	6	13.78	86.39	6.5	33.24	8.0	24.9	0.78
A7	03 Mar 2017	7	13.71	86.06	6.4	33.24	8.0	24.9	0.70
A7	03 Mar 2017	8	13.64	85.66	6.2	33.25	8.0	24.9	0.69
A7	03 Mar 2017	9	13.51	85.75	5.6	33.27	8.0	24.9	0.70
A7	03 Mar 2017	10	13.32	84.83	5.1	33.29	8.0	25.0	0.77
A7	03 Mar 2017	11	12.82	84.13	4.8	33.36	7.9	25.2	0.84
A7	03 Mar 2017	12	12.31	80.36	4.8	33.43	7.9	25.3	0.89
A7	03 Mar 2017	13	12.17	76.83	5.0	33.43	7.9	25.3	0.88
A7	03 Mar 2017	14	12.14	75.38	5.0	33.42	7.9	25.3	0.90
A7	03 Mar 2017	15	12.13	75.28	5.1	33.42	7.9	25.3	0.92
A7	03 Mar 2017	16	12.12	76.14	5.1	33.42	7.9	25.3	0.94
A7	03 Mar 2017	17	12.11	76.77	5.2	33.42	7.9	25.3	0.93
A7	03 Mar 2017	18	12.12	77.38	5.2	33.42	7.9	25.3	0.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A7	03 Mar 2017	19	12.12	77.48	5.2	33.42	7.9	25.3	0.92
A7	09 Mar 2017	1	14.74	73.97	7.8	33.00	8.1	24.5	3.15
A7	09 Mar 2017	2	14.74	74.20	8.3	33.01	8.1	24.5	1.92
A7	09 Mar 2017	3	14.69	73.62	8.1	33.03	8.1	24.5	2.85
A7	09 Mar 2017	4	14.63	72.68	7.9	33.03	8.1	24.5	3.84
A7	09 Mar 2017	5	14.56	73.04	7.6	33.04	8.1	24.6	4.23
A7	09 Mar 2017	6	14.48	73.98	7.3	33.06	8.1	24.6	4.49
A7	09 Mar 2017	7	14.42	74.08	6.7	33.08	8.1	24.6	4.97
A7	09 Mar 2017	8	14.24	73.98	6.0	33.14	8.1	24.7	4.44
A7	09 Mar 2017	9	13.67	76.06	5.4	33.29	8.0	24.9	3.70
A7	09 Mar 2017	10	13.40	79.03	5.0	33.34	8.0	25.0	2.89
A7	09 Mar 2017	11	12.98	81.66	4.8	33.44	8.0	25.2	2.42
A7	09 Mar 2017	12	12.75	83.12	4.5	33.44	7.9	25.2	1.83
A7	09 Mar 2017	13	12.38	83.41	4.3	33.50	7.9	25.4	1.54
A7	09 Mar 2017	14	12.03	82.83	4.3	33.51	7.9	25.4	1.26
A7	09 Mar 2017	15	11.95	82.32	4.2	33.50	7.8	25.4	1.11
A7	09 Mar 2017	16	11.75	82.15	4.0	33.52	7.8	25.5	0.89
A7	09 Mar 2017	17	11.33	81.11	3.9	33.58	7.8	25.6	0.86
A7	09 Mar 2017	18	10.95	77.81	3.9	33.62	7.8	25.7	0.71
A7	09 Mar 2017	19	10.91	74.89	4.0	33.60	7.8	25.7	0.59
A7	18 Mar 2017	1	15.62	83.41	8.5	33.15	8.1	24.4	2.57
A7	18 Mar 2017	2	15.62	83.44	8.5	33.15	8.1	24.4	2.93
A7	18 Mar 2017	3	15.61	83.11	8.4	33.15	8.1	24.4	3.61
A7	18 Mar 2017	4	15.60	83.15	8.3	33.15	8.1	24.4	4.05
A7	18 Mar 2017	5	15.48	82.94	8.3	33.19	8.1	24.5	4.33
A7	18 Mar 2017	6	15.28	82.60	8.3	33.22	8.1	24.5	4.51
A7	18 Mar 2017	7	15.19	81.88	8.3	33.22	8.1	24.6	4.53
A7	18 Mar 2017	8	15.15	81.37	8.3	33.22	8.1	24.6	4.64
A7	18 Mar 2017	9	15.12	81.10	8.1	33.22	8.1	24.6	4.52
A7	18 Mar 2017	10	15.12	81.13	7.9	33.22	8.1	24.6	4.26
A7	18 Mar 2017	11	15.02	81.18	7.8	33.23	8.1	24.6	4.15
A7	18 Mar 2017	12	14.70	81.30	7.8	33.26	8.1	24.7	4.02
A7	18 Mar 2017	13	14.64	81.88	7.8	33.26	8.1	24.7	3.86
A7	18 Mar 2017	14	14.57	82.52	7.7	33.26	8.1	24.7	3.43
A7	18 Mar 2017	15	14.54	82.73	7.3	33.26	8.1	24.7	2.57
A7	18 Mar 2017	16	14.44	83.06	6.9	33.26	8.1	24.8	1.97
A7	18 Mar 2017	17	14.19	83.26	6.6	33.28	8.1	24.8	1.58
A7	18 Mar 2017	18	13.96	83.98	6.5	33.30	8.0	24.9	1.43
A7	18 Mar 2017	19	13.83	84.86	6.6	33.30	8.0	24.9	1.45
A7	18 Mar 2017	20	13.76	85.01	6.9	33.30	8.0	24.9	1.72
A7	22 Mar 2017	1	16.31	77.21	8.5	33.14	8.2	24.2	2.82
A7	22 Mar 2017	2	16.31	81.57	8.5	33.14	8.2	24.2	2.88
A7	22 Mar 2017	3	16.22	82.33	8.5	33.14	8.2	24.3	3.06
A7	22 Mar 2017	4	16.28	81.90	8.3	33.13	8.2	24.2	3.18
A7	22 Mar 2017	5	16.17	82.11	8.3	33.14	8.2	24.3	3.43
A7	22 Mar 2017	6	16.09	81.28	8.3	33.14	8.2	24.3	3.82
A7	22 Mar 2017	7	15.95	81.41	8.3	33.14	8.2	24.3	4.20
A7	22 Mar 2017	8	15.92	79.72	8.2	33.13	8.2	24.3	4.46
A7	22 Mar 2017	9	15.86	79.53	8.1	33.15	8.2	24.4	4.59
A7	22 Mar 2017	10	15.69	79.50	8.0	33.17	8.1	24.4	4.81
A7	22 Mar 2017	11	15.64	79.49	8.0	33.17	8.1	24.4	5.13
A7	22 Mar 2017	12	15.57	79.19	7.8	33.18	8.1	24.4	5.03

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A7	22 Mar 2017	13	15.56	78.95	7.3	33.18	8.1	24.4	4.45
A7	22 Mar 2017	14	15.21	78.91	6.6	33.25	8.1	24.6	3.40
A7	22 Mar 2017	15	14.67	80.14	6.4	33.30	8.1	24.7	2.57
A7	22 Mar 2017	16	14.38	84.15	6.6	33.30	8.0	24.8	2.17
A7	22 Mar 2017	17	14.45	86.28	6.6	33.27	8.0	24.8	1.73
A7	22 Mar 2017	18	14.33	86.42	6.7	33.29	8.0	24.8	1.57
A7	26 Mar 2017	1	15.60	73.42	7.9	33.27	8.1	24.5	4.07
A7	26 Mar 2017	2	15.55	73.40	7.2	33.27	8.1	24.5	4.31
A7	26 Mar 2017	3	15.16	73.48	5.7	33.30	8.1	24.6	3.29
A7	26 Mar 2017	4	14.05	75.29	5.1	33.36	8.0	24.9	2.49
A7	26 Mar 2017	5	13.45	78.47	4.9	33.37	8.0	25.0	1.89
A7	26 Mar 2017	6	12.85	82.18	4.9	33.39	7.9	25.2	1.55
A7	26 Mar 2017	7	12.72	83.94	5.0	33.38	7.9	25.2	1.36
A7	26 Mar 2017	8	12.64	82.97	4.9	33.38	7.9	25.2	1.17
A7	26 Mar 2017	9	12.51	82.56	4.9	33.38	7.9	25.2	0.97
A7	26 Mar 2017	10	12.36	82.20	4.8	33.40	7.9	25.3	0.88
A7	26 Mar 2017	11	12.24	82.03	4.6	33.40	7.9	25.3	0.78
A7	26 Mar 2017	12	11.99	80.43	4.4	33.42	7.9	25.4	0.68
A7	26 Mar 2017	13	11.87	78.59	4.3	33.43	7.9	25.4	0.65
A7	26 Mar 2017	14	11.61	76.80	4.2	33.45	7.8	25.5	0.61
A7	26 Mar 2017	15	11.39	72.81	4.2	33.46	7.8	25.5	0.57
A7	26 Mar 2017	16	11.27	64.81	4.3	33.46	7.8	25.5	0.57
A7	26 Mar 2017	17	11.23	60.10	4.3	33.47	7.8	25.5	0.56
A7	26 Mar 2017	18	11.23	61.07	4.4	33.46	7.8	25.5	0.56
A7	26 Mar 2017	19	11.23	58.34	4.4	33.47	7.8	25.5	0.57
C7	03 Mar 2017	1	14.74	81.35	7.8	32.83	8.1	24.4	1.12
C7	03 Mar 2017	2	14.63	81.69	7.6	33.00	8.1	24.5	1.12
C7	03 Mar 2017	3	14.54	83.67	7.4	33.11	8.1	24.6	0.87
C7	03 Mar 2017	4	14.47	85.14	7.0	33.14	8.1	24.6	0.71
C7	03 Mar 2017	5	14.35	85.93	6.6	33.17	8.1	24.7	0.64
C7	03 Mar 2017	6	14.21	86.61	6.5	33.19	8.0	24.7	0.61
C7	03 Mar 2017	7	14.05	86.76	6.4	33.21	8.0	24.8	0.61
C7	03 Mar 2017	8	14.01	85.88	6.2	33.21	8.0	24.8	0.55
C7	03 Mar 2017	9	13.90	86.17	6.1	33.23	8.0	24.8	0.56
C7	03 Mar 2017	10	13.68	86.18	6.0	33.26	8.0	24.9	0.55
C7	03 Mar 2017	11	13.53	85.38	5.7	33.27	8.0	24.9	0.57
C7	03 Mar 2017	12	13.28	84.40	5.4	33.30	8.0	25.0	0.52
C7	03 Mar 2017	13	12.96	83.65	5.3	33.33	7.9	25.1	0.55
C7	03 Mar 2017	14	12.54	82.22	5.3	33.38	7.9	25.2	0.60
C7	03 Mar 2017	15	12.50	80.12	5.4	33.37	7.9	25.2	0.61
C7	03 Mar 2017	16	12.48	80.04	5.5	33.37	7.9	25.2	0.68
C7	03 Mar 2017	17	12.45	80.77	5.5	33.38	7.9	25.2	0.64
C7	03 Mar 2017	18	12.45	81.33	5.5	33.38	7.9	25.2	0.65
C7	09 Mar 2017	1	15.13	77.26	8.3	33.10	8.1	24.5	2.65
C7	09 Mar 2017	2	15.12	77.16	8.3	33.10	8.1	24.5	3.62
C7	09 Mar 2017	3	15.08	77.19	8.2	33.10	8.1	24.5	4.57
C7	09 Mar 2017	4	15.05	76.59	8.1	33.11	8.1	24.5	4.88
C7	09 Mar 2017	5	15.02	76.15	8.0	33.11	8.1	24.5	5.29
C7	09 Mar 2017	6	14.95	75.97	7.9	33.11	8.1	24.5	5.33
C7	09 Mar 2017	7	14.88	76.07	7.6	33.11	8.1	24.5	4.87
C7	09 Mar 2017	8	14.75	76.15	7.2	33.14	8.1	24.6	4.14
C7	09 Mar 2017	9	14.51	76.46	6.7	33.17	8.1	24.7	3.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	09 Mar 2017	10	14.16	78.21	6.2	33.22	8.1	24.8	2.97
C7	09 Mar 2017	11	13.80	80.49	5.8	33.26	8.0	24.9	2.49
C7	09 Mar 2017	12	13.44	81.67	5.7	33.29	8.0	25.0	2.16
C7	09 Mar 2017	13	13.21	82.67	5.5	33.31	8.0	25.0	1.89
C7	09 Mar 2017	14	12.95	82.23	5.4	33.33	8.0	25.1	1.65
C7	09 Mar 2017	15	12.69	82.31	5.2	33.35	7.9	25.2	1.36
C7	09 Mar 2017	16	12.41	83.40	4.9	33.38	7.9	25.3	1.11
C7	09 Mar 2017	17	12.02	84.19	4.9	33.41	7.9	25.4	1.02
C7	09 Mar 2017	18	11.75	83.76	5.1	33.43	7.9	25.4	1.00
C7	18 Mar 2017	1	15.75	83.49	8.6	33.20	8.2	24.4	3.06
C7	18 Mar 2017	2	15.70	83.48	8.4	33.20	8.2	24.4	3.61
C7	18 Mar 2017	3	15.54	83.33	8.3	33.21	8.2	24.5	4.19
C7	18 Mar 2017	4	15.19	82.87	8.3	33.23	8.1	24.6	4.58
C7	18 Mar 2017	5	15.02	82.66	8.2	33.23	8.1	24.6	4.78
C7	18 Mar 2017	6	14.85	82.52	8.2	33.23	8.1	24.6	4.79
C7	18 Mar 2017	7	14.74	82.22	8.2	33.24	8.1	24.7	4.77
C7	18 Mar 2017	8	14.69	82.19	8.1	33.24	8.1	24.7	4.76
C7	18 Mar 2017	9	14.65	82.12	8.1	33.24	8.1	24.7	4.93
C7	18 Mar 2017	10	14.60	82.39	8.1	33.24	8.1	24.7	5.11
C7	18 Mar 2017	11	14.51	82.64	8.0	33.25	8.1	24.7	4.96
C7	18 Mar 2017	12	14.49	82.39	8.0	33.25	8.1	24.7	4.90
C7	18 Mar 2017	13	14.47	82.53	8.0	33.25	8.1	24.7	4.54
C7	18 Mar 2017	14	14.45	82.54	7.8	33.25	8.1	24.7	4.21
C7	18 Mar 2017	15	14.39	82.48	7.5	33.26	8.1	24.8	3.95
C7	18 Mar 2017	16	14.35	82.93	7.0	33.26	8.1	24.8	3.16
C7	18 Mar 2017	17	14.19	83.56	6.7	33.28	8.1	24.8	2.54
C7	18 Mar 2017	18	13.57	83.83	7.2	33.36	8.0	25.0	2.75
C7	22 Mar 2017	1	16.65	83.58	8.7	33.16	8.2	24.2	1.74
C7	22 Mar 2017	2	16.67	85.03	8.7	33.16	8.2	24.2	1.77
C7	22 Mar 2017	3	16.67	85.56	8.7	33.16	8.2	24.2	1.85
C7	22 Mar 2017	4	16.65	85.77	8.7	33.16	8.2	24.2	2.02
C7	22 Mar 2017	5	16.61	85.48	8.7	33.17	8.2	24.2	2.23
C7	22 Mar 2017	6	16.51	85.14	8.8	33.18	8.2	24.2	2.51
C7	22 Mar 2017	7	16.48	84.57	8.8	33.18	8.2	24.2	2.79
C7	22 Mar 2017	8	16.43	84.02	8.8	33.18	8.2	24.3	3.02
C7	22 Mar 2017	9	16.35	83.54	8.6	33.19	8.2	24.3	3.27
C7	22 Mar 2017	10	16.29	83.27	8.6	33.19	8.2	24.3	3.38
C7	22 Mar 2017	11	16.10	82.89	8.7	33.22	8.2	24.4	3.16
C7	22 Mar 2017	12	15.82	83.04	8.7	33.22	8.2	24.4	3.42
C7	22 Mar 2017	13	15.64	83.57	8.3	33.21	8.2	24.4	3.96
C7	22 Mar 2017	14	15.53	83.37	7.7	33.22	8.2	24.5	4.31
C7	22 Mar 2017	15	15.41	82.16	6.9	33.24	8.1	24.5	3.89
C7	22 Mar 2017	16	15.12	81.90	5.7	33.26	8.1	24.6	2.70
C7	22 Mar 2017	17	14.33	83.12	5.3	33.34	8.1	24.8	1.70
C7	22 Mar 2017	18	13.96	85.24	6.1	33.32	8.0	24.9	1.57
C7	26 Mar 2017	1	15.69	74.05	7.0	33.25	8.1	24.5	4.25
C7	26 Mar 2017	2	15.56	74.05	6.2	33.26	8.1	24.5	3.52
C7	26 Mar 2017	3	14.34	74.94	5.9	33.33	8.1	24.8	3.10
C7	26 Mar 2017	4	13.80	77.85	5.8	33.34	8.0	24.9	2.53
C7	26 Mar 2017	5	13.85	81.09	5.4	33.30	8.0	24.9	2.06
C7	26 Mar 2017	6	13.33	82.27	5.0	33.34	8.0	25.0	1.72
C7	26 Mar 2017	7	12.89	84.81	5.0	33.36	8.0	25.1	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	26 Mar 2017	8	12.75	86.04	5.1	33.37	7.9	25.2	1.44
C7	26 Mar 2017	9	12.63	84.92	5.2	33.37	7.9	25.2	1.38
C7	26 Mar 2017	10	12.61	84.51	5.2	33.37	7.9	25.2	1.24
C7	26 Mar 2017	11	12.60	84.46	5.1	33.37	7.9	25.2	1.14
C7	26 Mar 2017	12	12.58	84.37	5.0	33.37	7.9	25.2	1.03
C7	26 Mar 2017	13	12.55	83.86	4.8	33.37	7.9	25.2	0.94
C7	26 Mar 2017	14	12.40	83.57	4.6	33.38	7.9	25.3	0.86
C7	26 Mar 2017	15	12.15	82.07	4.7	33.41	7.9	25.3	0.83
C7	26 Mar 2017	16	12.13	75.57	4.8	33.40	7.9	25.3	0.82
C7	26 Mar 2017	17	12.14	74.77	4.8	33.40	7.9	25.3	0.80
C7	26 Mar 2017	18	12.14	72.85	4.9	33.40	7.9	25.3	0.81
C8	03 Mar 2017	1	14.83	82.25	7.9	32.90	8.1	24.4	0.90
C8	03 Mar 2017	2	14.78	82.03	7.7	32.95	8.1	24.4	0.87
C8	03 Mar 2017	3	14.59	82.25	7.6	33.08	8.1	24.6	0.93
C8	03 Mar 2017	4	14.55	83.55	7.6	33.09	8.1	24.6	0.96
C8	03 Mar 2017	5	14.49	84.43	7.6	33.11	8.1	24.6	1.02
C8	03 Mar 2017	6	14.50	84.98	7.6	33.14	8.1	24.6	1.06
C8	03 Mar 2017	7	14.47	84.62	7.4	33.17	8.1	24.7	1.05
C8	03 Mar 2017	8	14.42	85.04	7.2	33.17	8.1	24.7	1.01
C8	03 Mar 2017	9	14.39	84.95	6.8	33.17	8.1	24.7	0.94
C8	03 Mar 2017	10	14.34	82.38	6.4	33.17	8.1	24.7	0.82
C8	03 Mar 2017	11	14.22	79.52	6.1	33.19	8.0	24.7	0.77
C8	03 Mar 2017	12	13.99	76.00	6.0	33.22	8.0	24.8	0.73
C8	03 Mar 2017	13	13.72	74.07	5.8	33.26	8.0	24.9	0.73
C8	03 Mar 2017	14	13.38	69.55	5.4	33.30	8.0	25.0	0.66
C8	03 Mar 2017	15	12.97	67.71	5.2	33.34	8.0	25.1	0.65
C8	03 Mar 2017	16	12.57	69.49	5.2	33.38	7.9	25.2	0.67
C8	03 Mar 2017	17	12.39	74.13	5.3	33.39	7.9	25.3	0.70
C8	03 Mar 2017	18	12.38	74.48	5.4	33.39	7.9	25.3	0.63
C8	03 Mar 2017	19	12.40	71.68	5.6	33.38	7.9	25.3	0.63
C8	09 Mar 2017	1	15.02	75.96	8.3	33.04	8.1	24.5	2.96
C8	09 Mar 2017	2	15.00	75.91	8.2	33.05	8.1	24.5	3.48
C8	09 Mar 2017	3	14.93	75.97	8.1	33.07	8.1	24.5	3.68
C8	09 Mar 2017	4	14.81	76.83	7.9	33.11	8.1	24.6	3.58
C8	09 Mar 2017	5	14.79	78.37	7.7	33.12	8.1	24.6	3.45
C8	09 Mar 2017	6	14.72	79.06	7.3	33.13	8.1	24.6	3.28
C8	09 Mar 2017	7	14.56	79.47	7.1	33.17	8.1	24.7	3.21
C8	09 Mar 2017	8	14.33	80.20	6.9	33.20	8.1	24.7	3.03
C8	09 Mar 2017	9	14.22	81.83	6.6	33.21	8.1	24.8	2.84
C8	09 Mar 2017	10	14.10	82.77	6.4	33.22	8.1	24.8	2.68
C8	09 Mar 2017	11	13.91	83.44	6.1	33.24	8.1	24.8	2.51
C8	09 Mar 2017	12	13.61	84.06	6.0	33.27	8.0	24.9	2.43
C8	09 Mar 2017	13	13.45	84.33	5.8	33.28	8.0	25.0	2.33
C8	09 Mar 2017	14	13.32	84.38	5.7	33.29	8.0	25.0	2.07
C8	09 Mar 2017	15	13.22	83.79	5.5	33.30	8.0	25.0	1.87
C8	09 Mar 2017	16	13.10	84.03	5.2	33.31	8.0	25.1	1.67
C8	09 Mar 2017	17	12.77	85.36	5.1	33.35	8.0	25.2	1.51
C8	09 Mar 2017	18	12.39	84.96	5.1	33.39	7.9	25.3	1.37
C8	09 Mar 2017	19	12.14	83.39	5.3	33.40	7.9	25.3	1.36
C8	09 Mar 2017	20	12.16	82.73	5.5	33.39	7.9	25.3	1.41
C8	18 Mar 2017	1	15.68	84.60	8.9	32.91	8.2	24.2	3.56
C8	18 Mar 2017	2	15.69	84.66	9.2	33.09	8.2	24.3	2.91

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	18 Mar 2017	3	15.63	84.69	9.0	33.19	8.2	24.4	3.20
C8	18 Mar 2017	4	15.47	84.31	8.8	33.21	8.2	24.5	3.02
C8	18 Mar 2017	5	15.34	84.09	8.7	33.23	8.2	24.5	2.98
C8	18 Mar 2017	6	15.11	84.38	8.6	33.26	8.2	24.6	3.03
C8	18 Mar 2017	7	15.05	84.47	8.5	33.23	8.2	24.6	3.13
C8	18 Mar 2017	8	15.01	84.33	8.5	33.22	8.2	24.6	3.26
C8	18 Mar 2017	9	14.95	84.24	8.6	33.23	8.1	24.6	3.41
C8	18 Mar 2017	10	14.89	84.00	8.5	33.23	8.1	24.6	3.53
C8	18 Mar 2017	11	14.87	84.02	8.5	33.23	8.1	24.6	3.70
C8	18 Mar 2017	12	14.87	83.98	8.3	33.22	8.1	24.6	3.87
C8	18 Mar 2017	13	14.85	83.82	8.1	33.23	8.1	24.6	4.30
C8	18 Mar 2017	14	14.81	83.19	7.5	33.23	8.1	24.7	4.52
C8	18 Mar 2017	15	14.72	82.03	6.9	33.25	8.1	24.7	4.41
C8	18 Mar 2017	16	14.41	81.20	6.3	33.31	8.1	24.8	3.62
C8	18 Mar 2017	17	13.81	82.71	6.3	33.37	8.0	25.0	2.81
C8	18 Mar 2017	18	13.69	84.49	6.6	33.33	8.0	25.0	2.15
C8	18 Mar 2017	19	13.68	84.77	6.7	33.32	8.0	25.0	2.06
C8	22 Mar 2017	1	16.77	81.82	6.7	32.85	8.2	23.9	0.92
C8	22 Mar 2017	2	16.76	84.16	7.6	32.93	8.2	23.3	1.93
C8	22 Mar 2017	3	16.74	85.66	8.1	33.01	8.2	23.8	2.23
C8	22 Mar 2017	4	16.70	85.78	8.1	33.12	8.2	24.1	2.36
C8	22 Mar 2017	5	16.64	85.72	8.1	33.16	8.2	24.2	2.48
C8	22 Mar 2017	6	16.59	85.24	8.3	33.17	8.2	24.2	2.59
C8	22 Mar 2017	7	16.37	84.80	8.5	33.31	8.2	24.4	2.44
C8	22 Mar 2017	8	15.77	84.56	8.7	33.67	8.2	24.8	1.83
C8	22 Mar 2017	9	15.46	84.17	8.6	33.52	8.2	24.7	0.36
C8	22 Mar 2017	10	15.26	83.94	8.6	33.38	8.2	24.7	1.96
C8	22 Mar 2017	11	15.15	83.61	8.4	33.35	8.2	24.7	2.41
C8	22 Mar 2017	12	15.11	83.27	8.2	33.31	8.2	24.6	2.66
C8	22 Mar 2017	13	15.05	82.27	7.7	33.32	8.2	24.7	3.01
C8	22 Mar 2017	14	14.97	82.04	7.2	33.30	8.1	24.7	3.38
C8	22 Mar 2017	15	14.80	82.53	6.7	33.34	8.1	24.7	3.67
C8	22 Mar 2017	16	14.63	83.31	6.2	33.34	8.1	24.8	3.88
C8	22 Mar 2017	17	14.11	84.22	6.0	33.42	8.0	24.9	3.53
C8	22 Mar 2017	18	13.98	84.23	6.1	33.39	8.0	24.9	2.98
C8	26 Mar 2017	1	15.89	74.72	7.7	33.25	8.2	24.4	3.97
C8	26 Mar 2017	2	15.78	74.98	6.9	33.26	8.1	24.5	3.80
C8	26 Mar 2017	3	15.39	75.45	5.8	33.26	8.1	24.5	3.16
C8	26 Mar 2017	4	13.66	77.85	5.7	33.35	8.0	25.0	2.72
C8	26 Mar 2017	5	13.29	84.31	5.8	33.33	8.0	25.0	2.55
C8	26 Mar 2017	6	13.19	85.57	5.8	33.33	8.0	25.1	2.32
C8	26 Mar 2017	7	13.13	85.79	5.8	33.33	8.0	25.1	2.15
C8	26 Mar 2017	8	13.05	85.72	5.7	33.33	8.0	25.1	2.00
C8	26 Mar 2017	9	12.91	86.73	5.5	33.34	8.0	25.1	1.74
C8	26 Mar 2017	10	12.87	87.23	5.3	33.34	8.0	25.1	1.56
C8	26 Mar 2017	11	12.65	86.85	5.4	33.37	7.9	25.2	1.49
C8	26 Mar 2017	12	12.60	85.88	5.4	33.37	7.9	25.2	1.40
C8	26 Mar 2017	13	12.62	86.45	5.2	33.37	7.9	25.2	1.25
C8	26 Mar 2017	14	12.55	86.08	5.1	33.38	7.9	25.2	1.12
C8	26 Mar 2017	15	12.44	84.47	5.0	33.39	7.9	25.3	1.07
C8	26 Mar 2017	16	12.42	81.48	5.0	33.39	7.9	25.3	1.03
C8	26 Mar 2017	17	12.41	79.04	5.1	33.39	7.9	25.3	1.01
C8	26 Mar 2017	18	12.41	73.00	5.1	33.39	7.9	25.3	1.04

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	26 Mar 2017	19	12.41	69.33	5.1	33.39	7.9	25.3	1.04

NA = not available

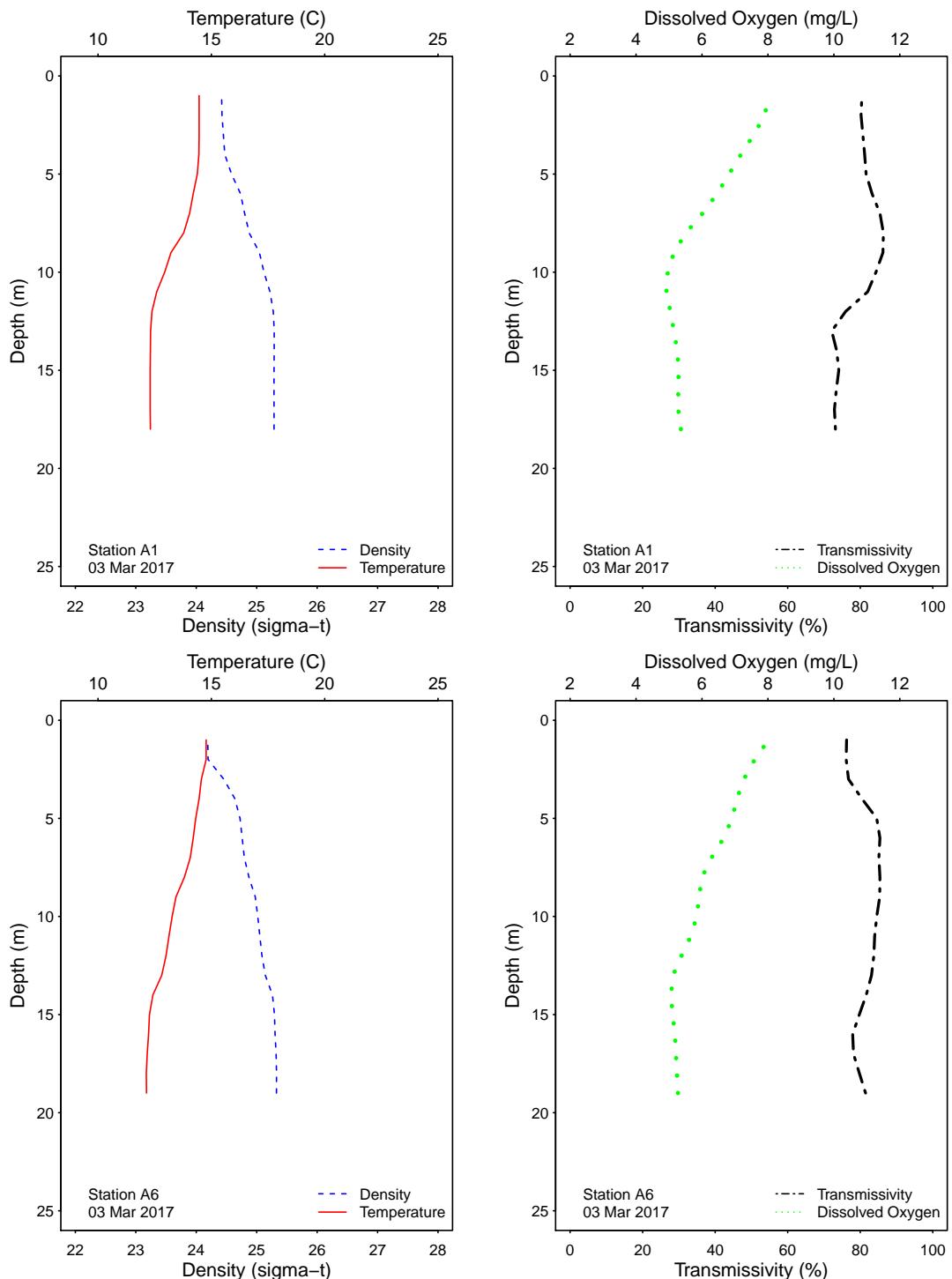


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

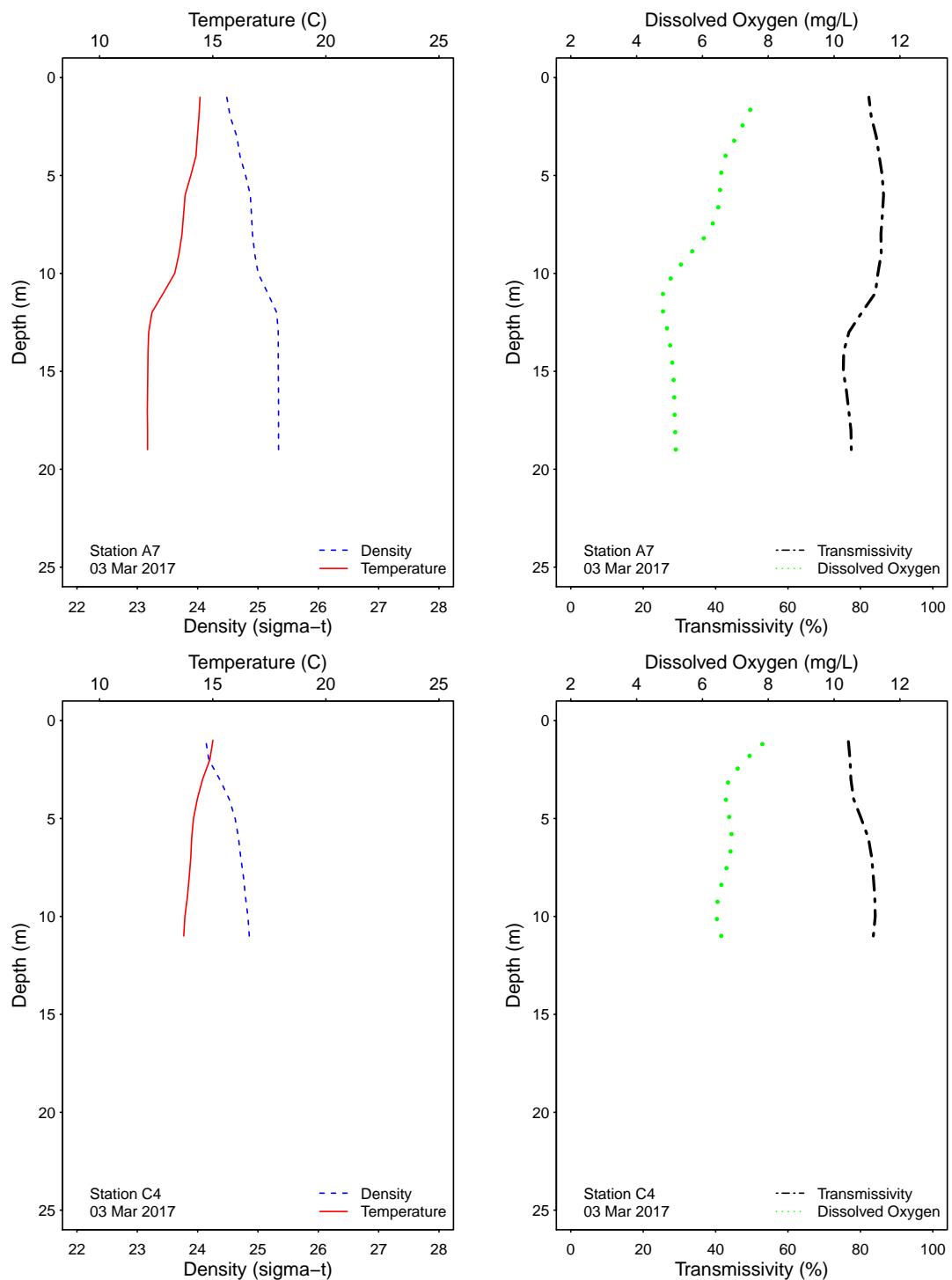


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

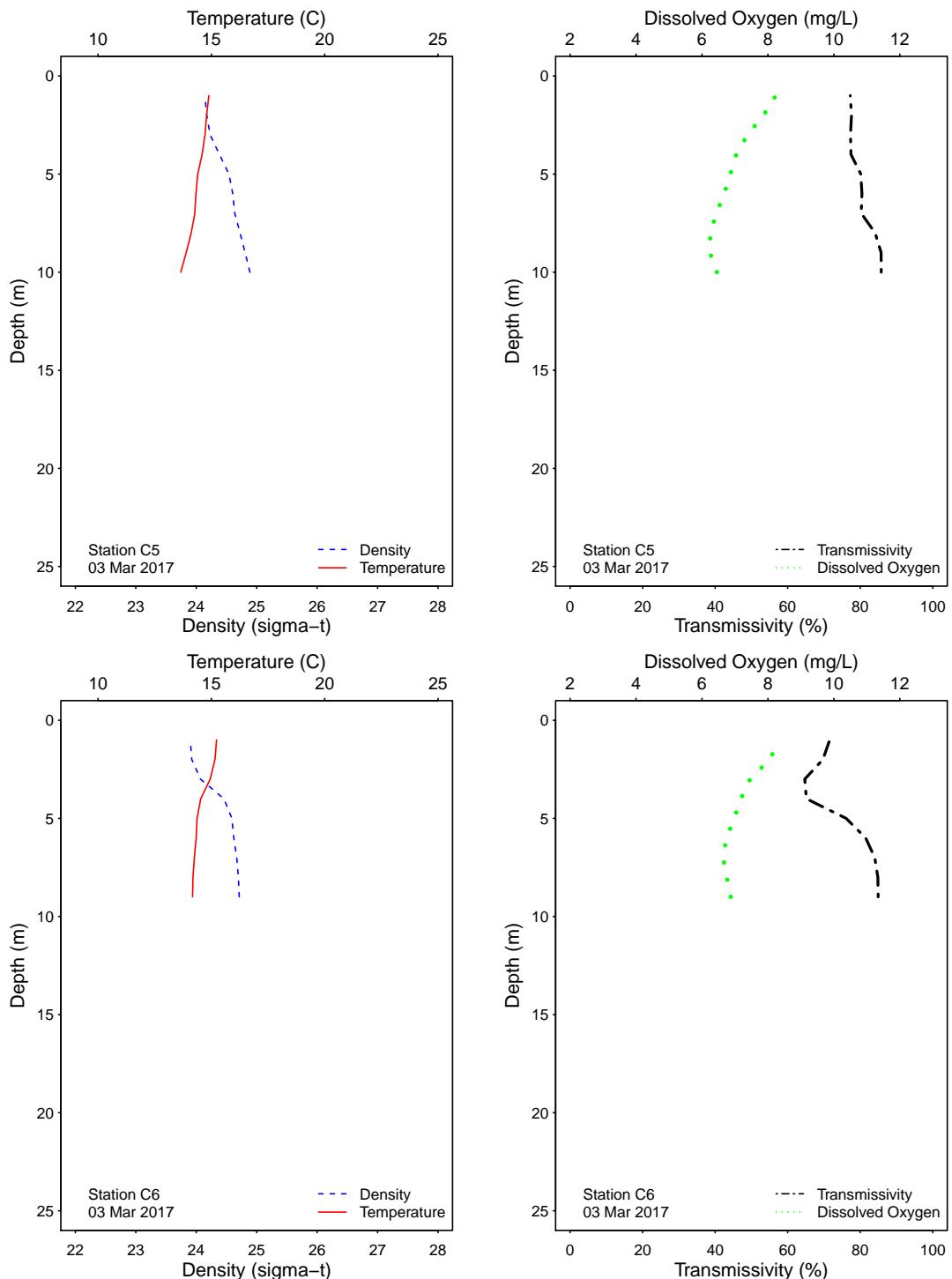


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

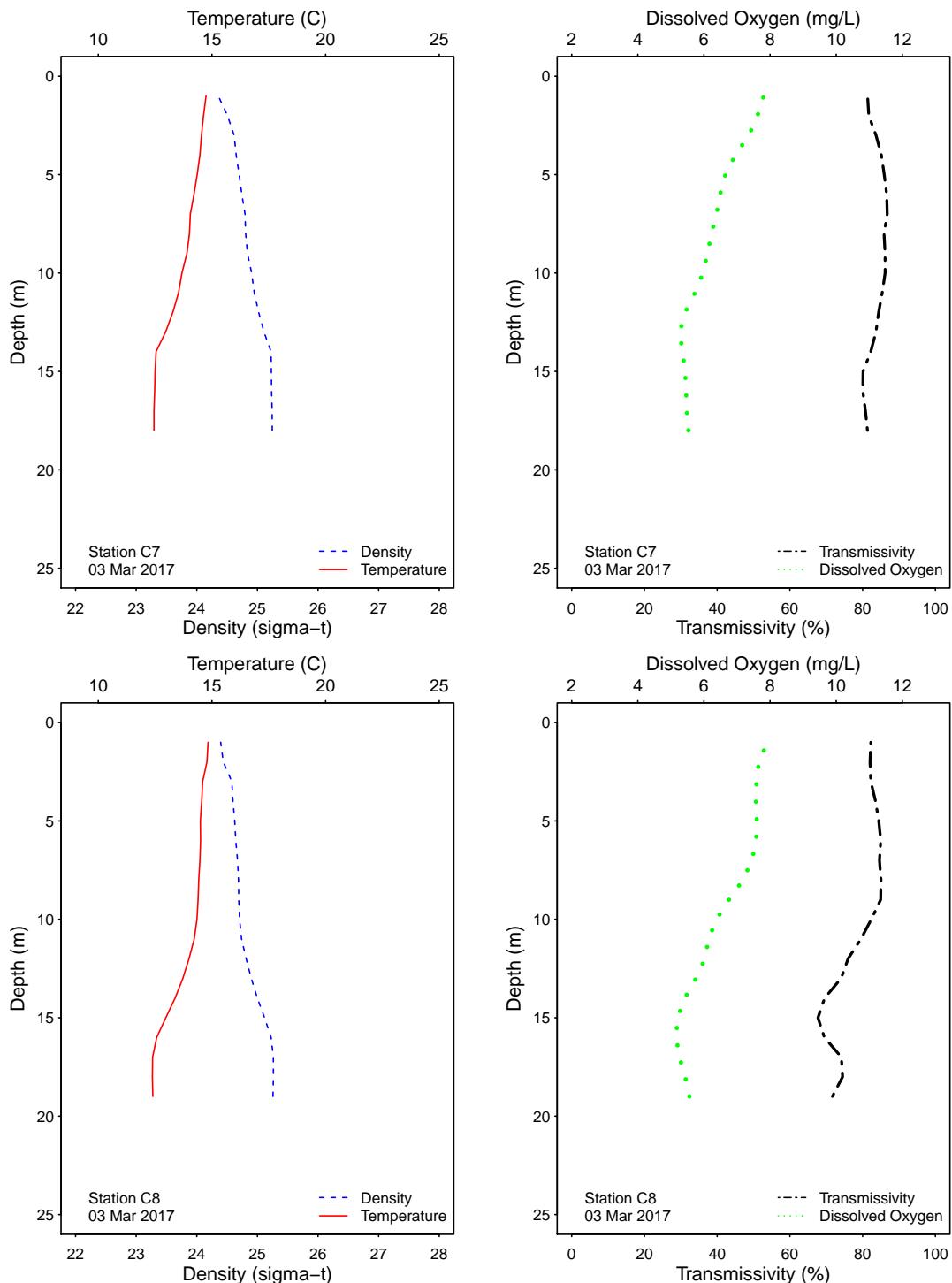


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

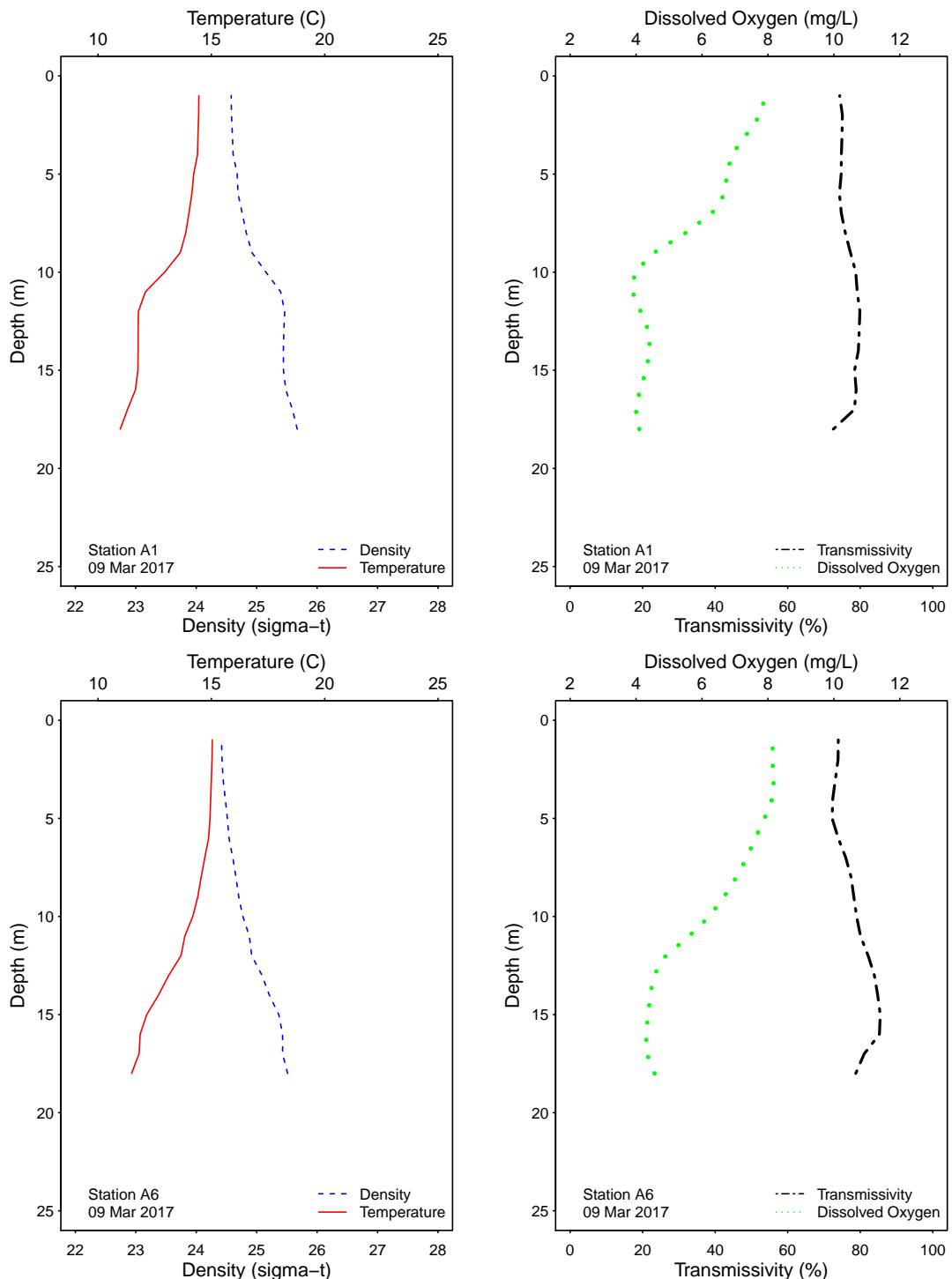


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

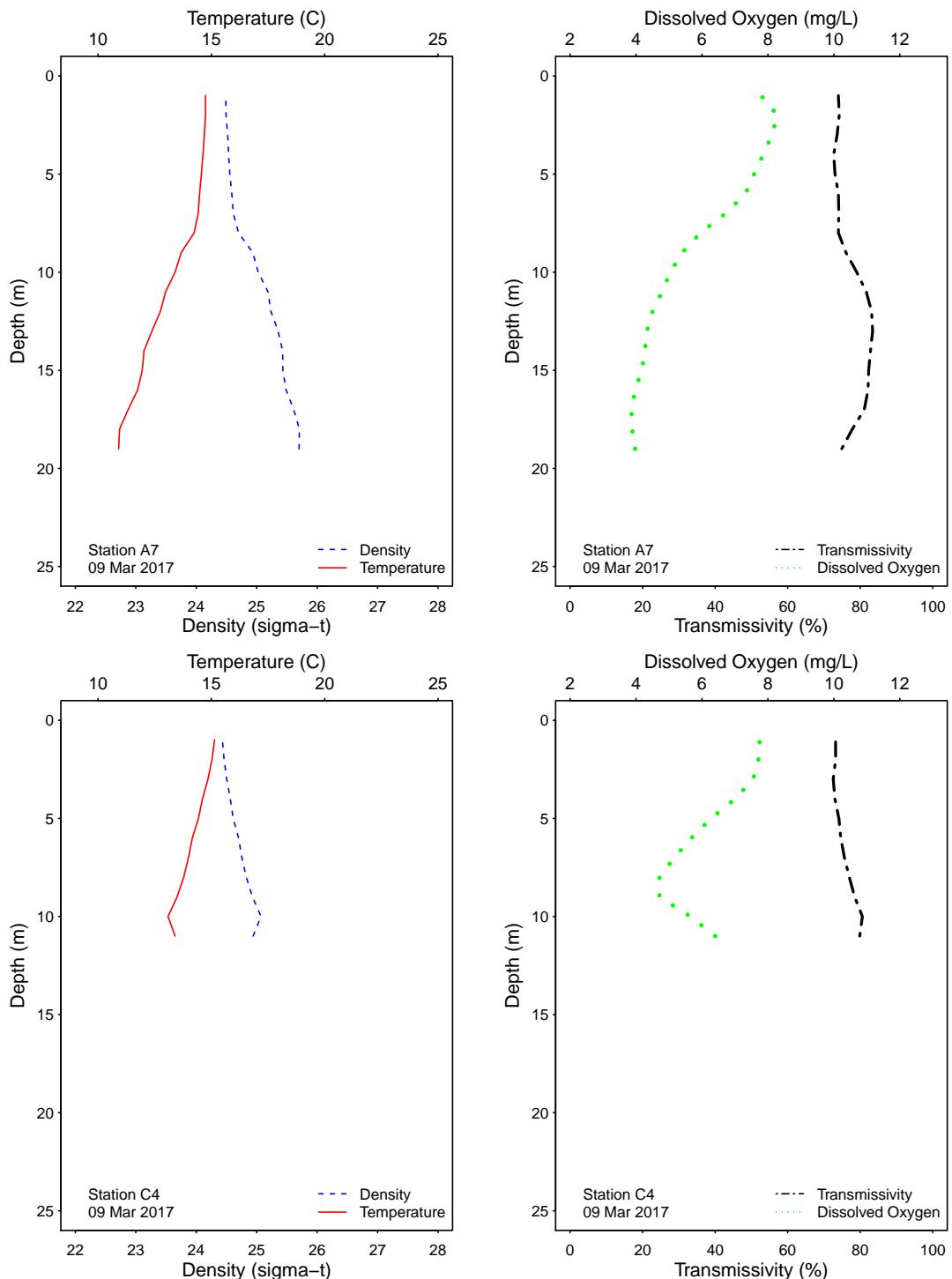


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

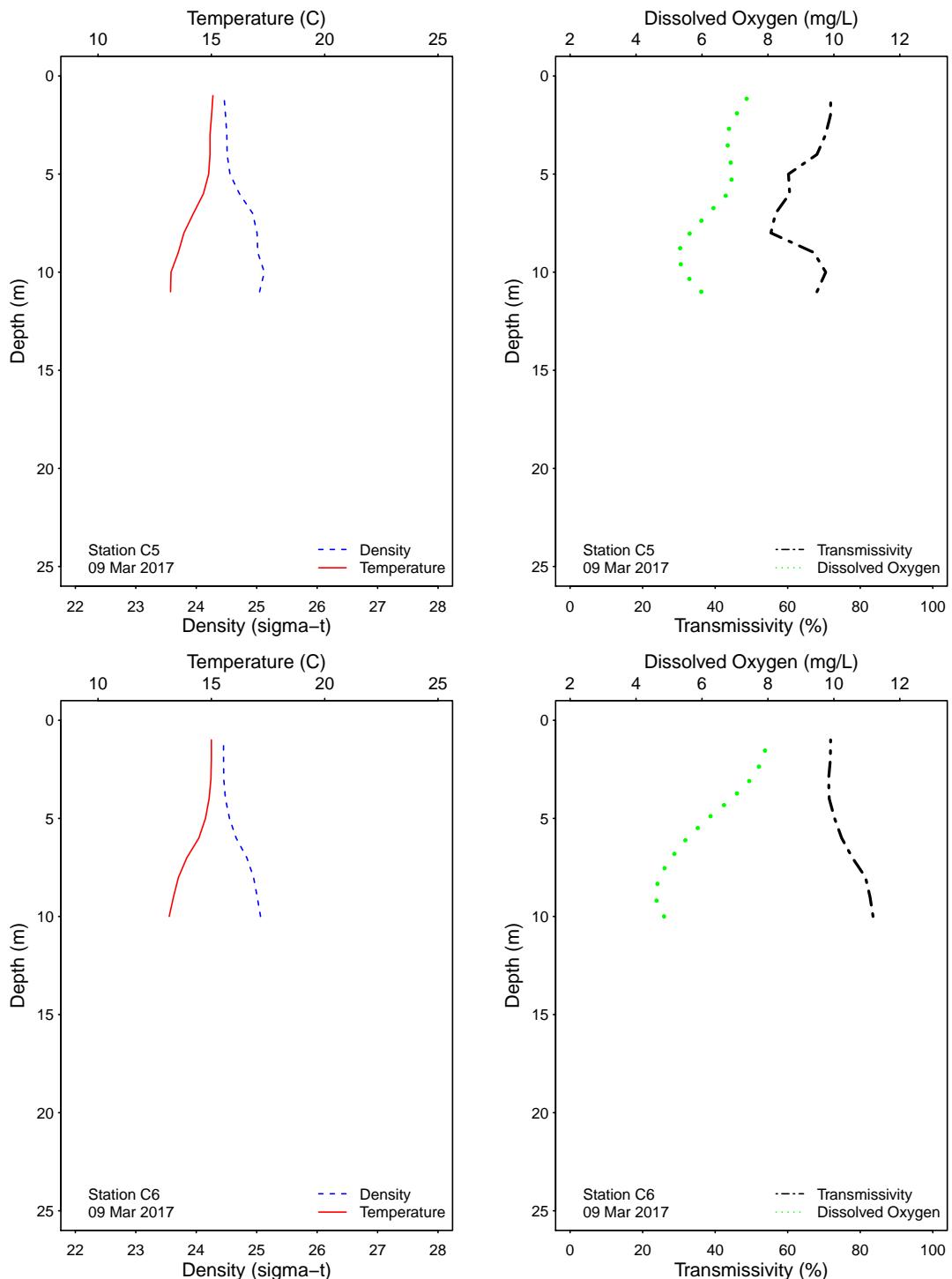


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

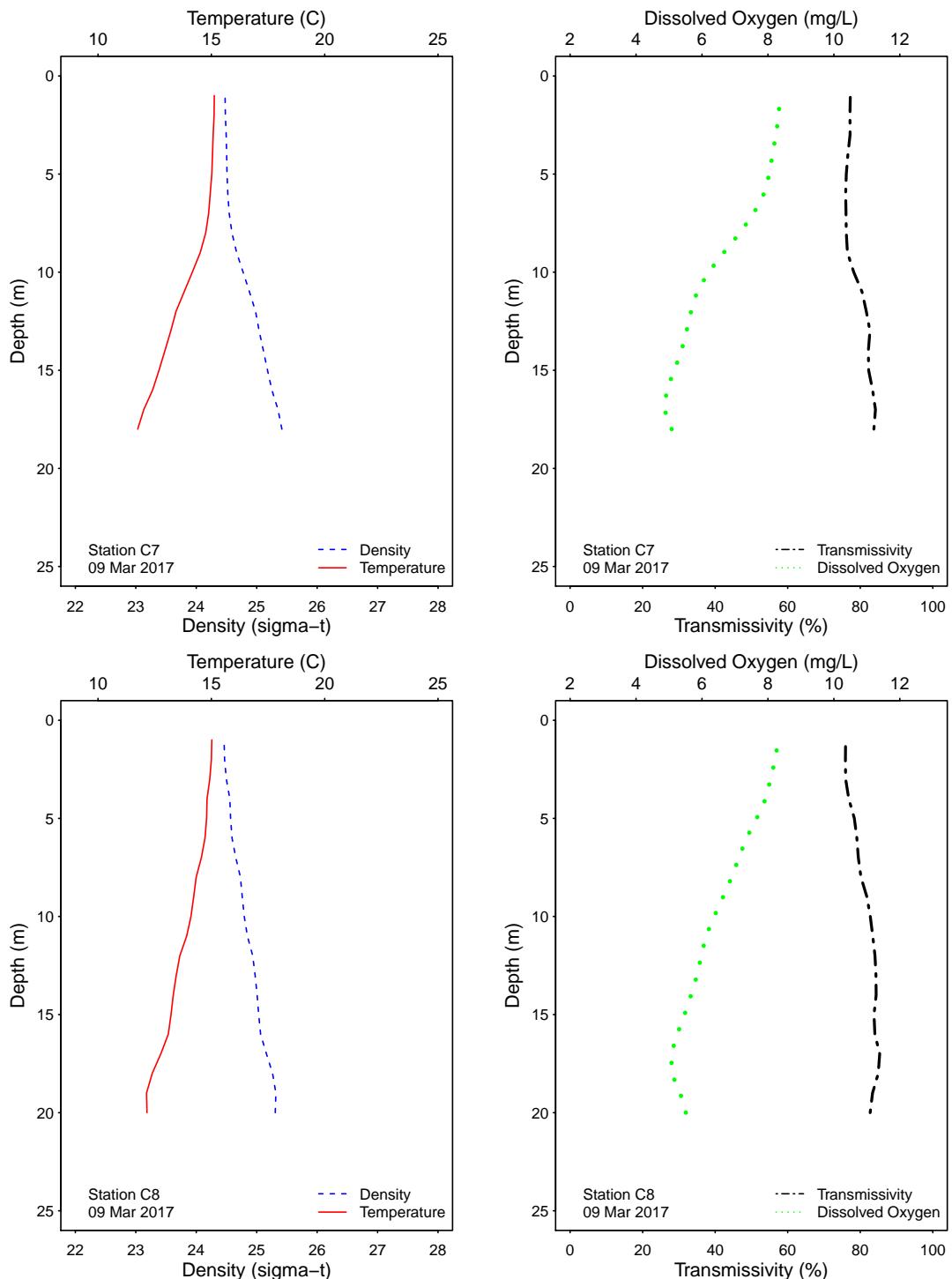


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

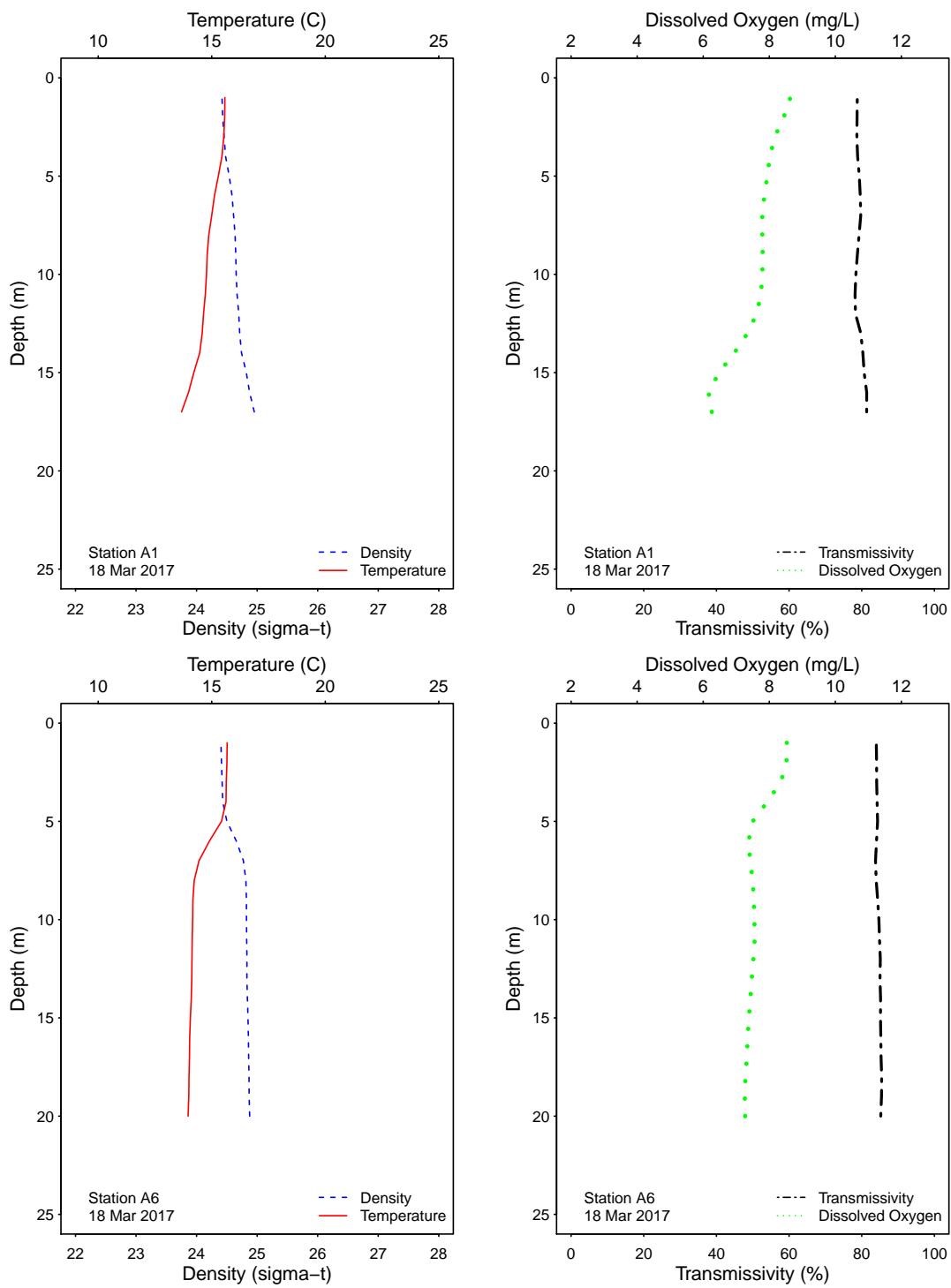


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

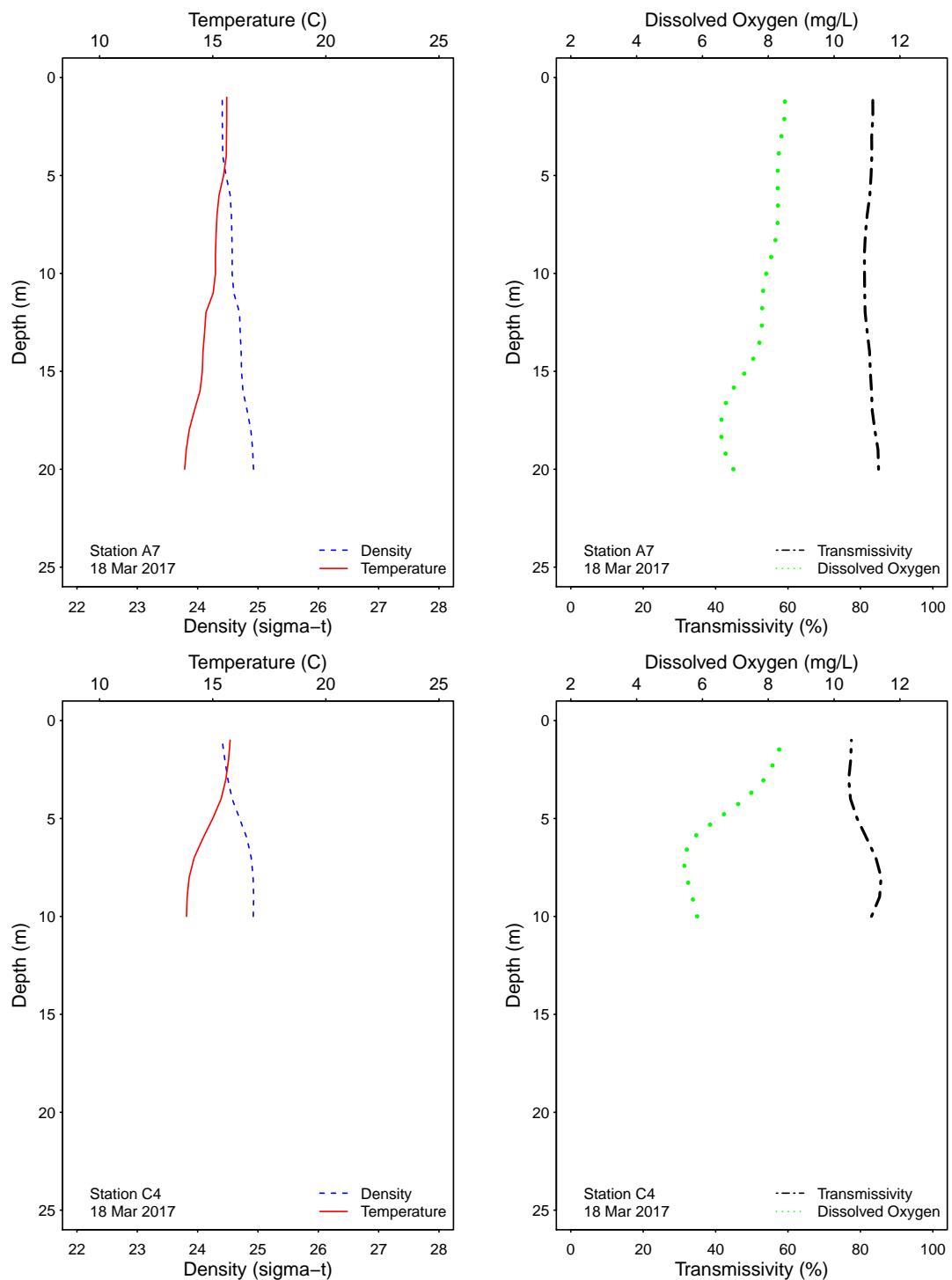


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

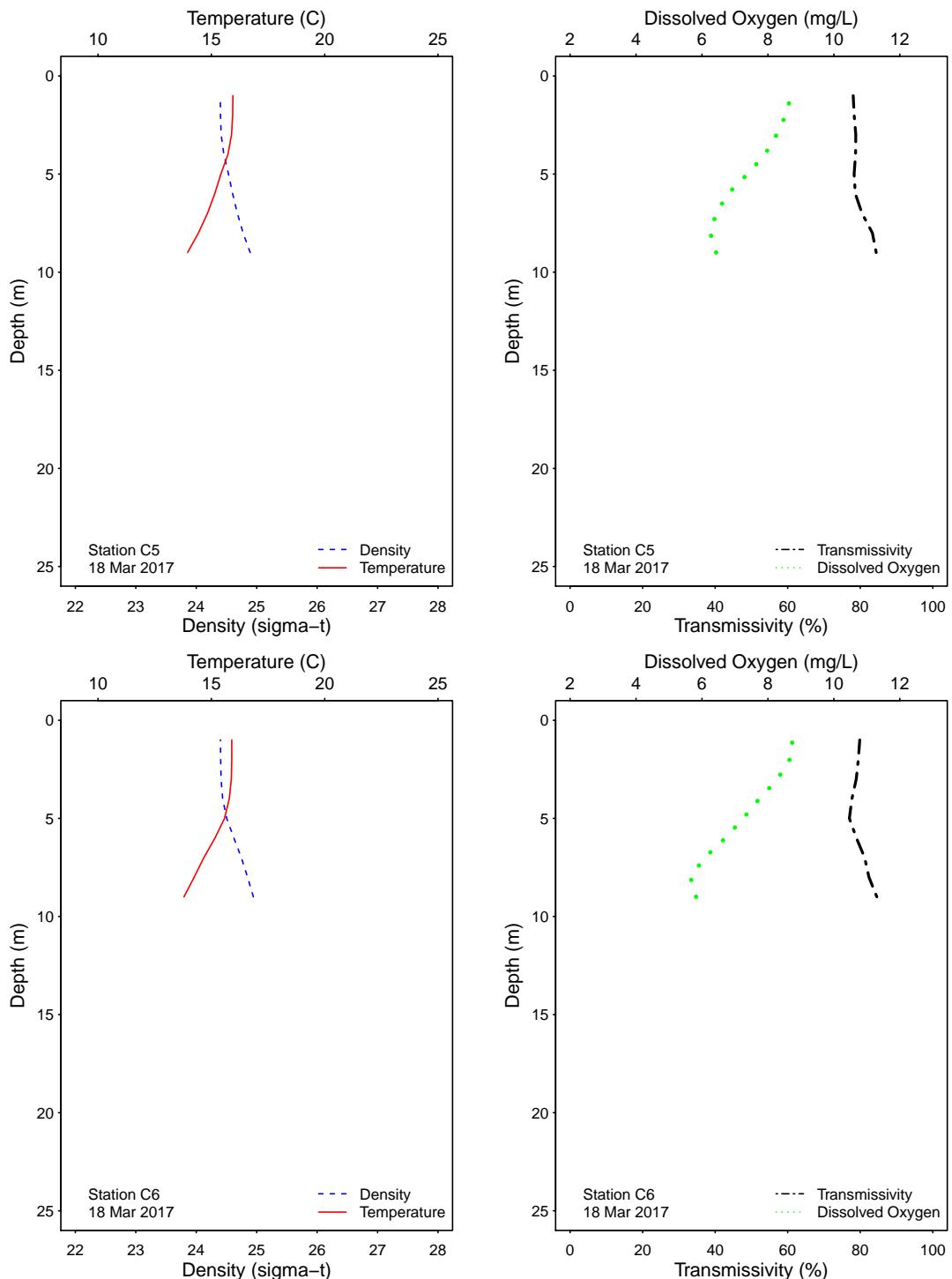


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

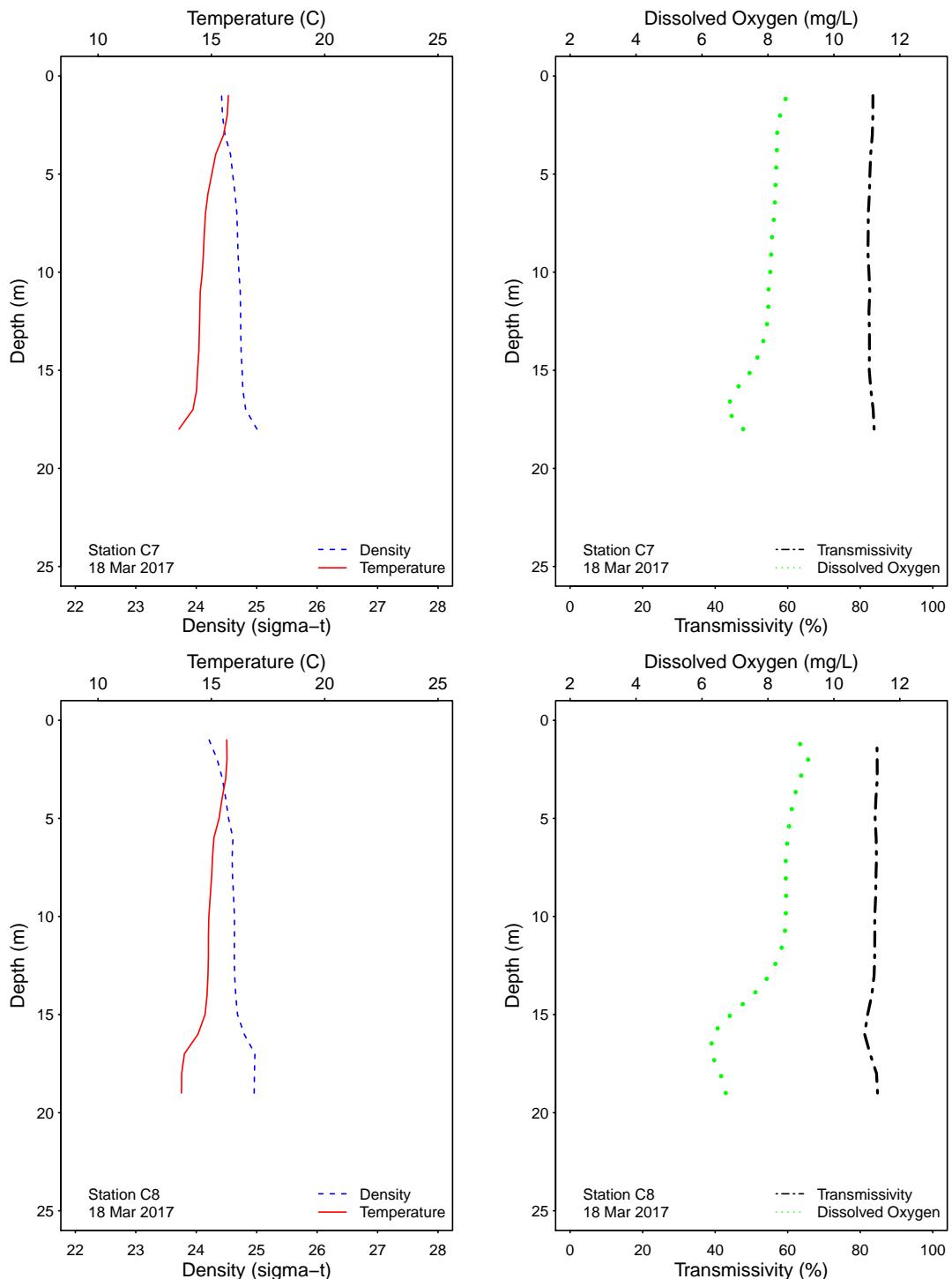


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

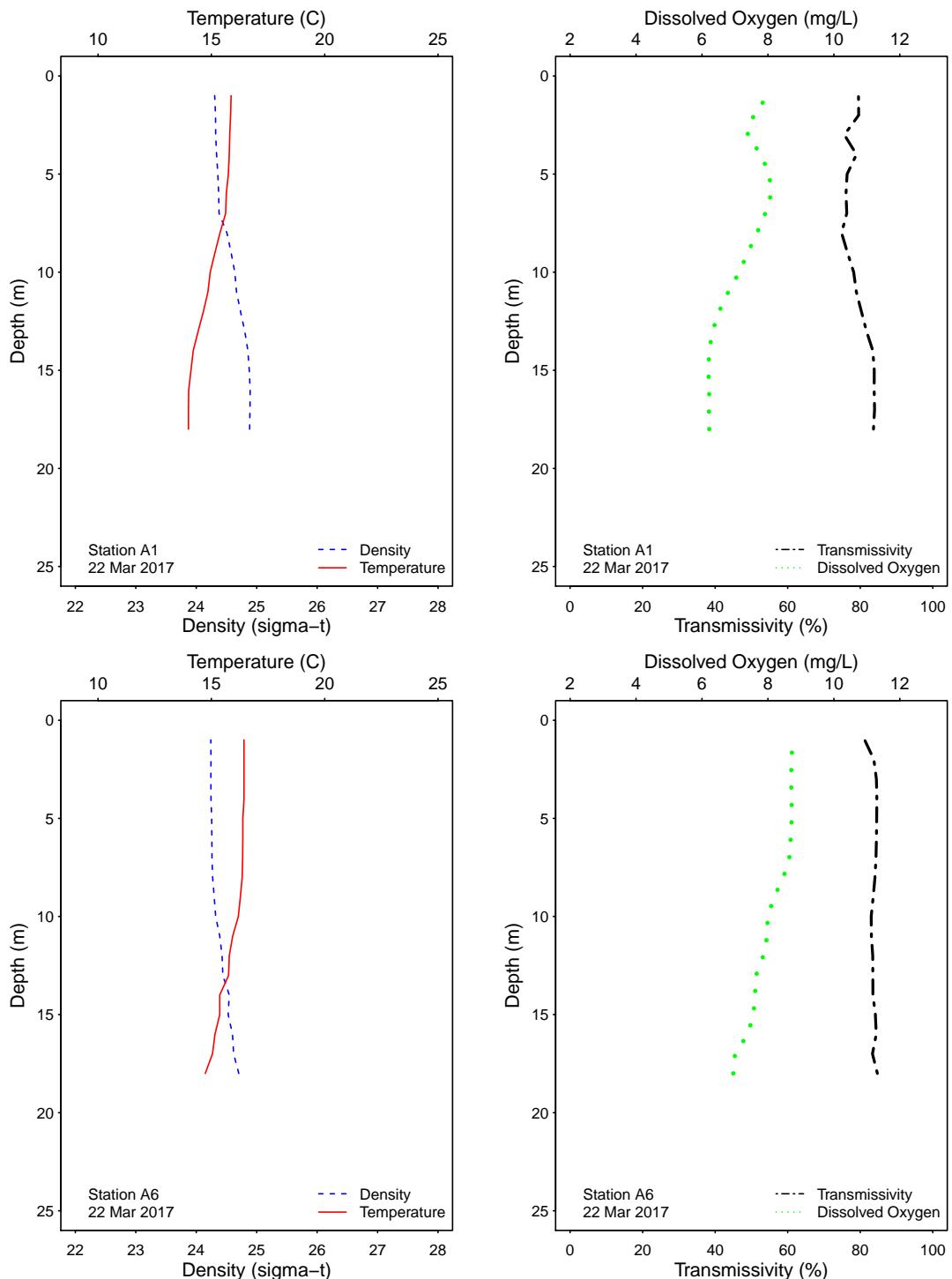


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

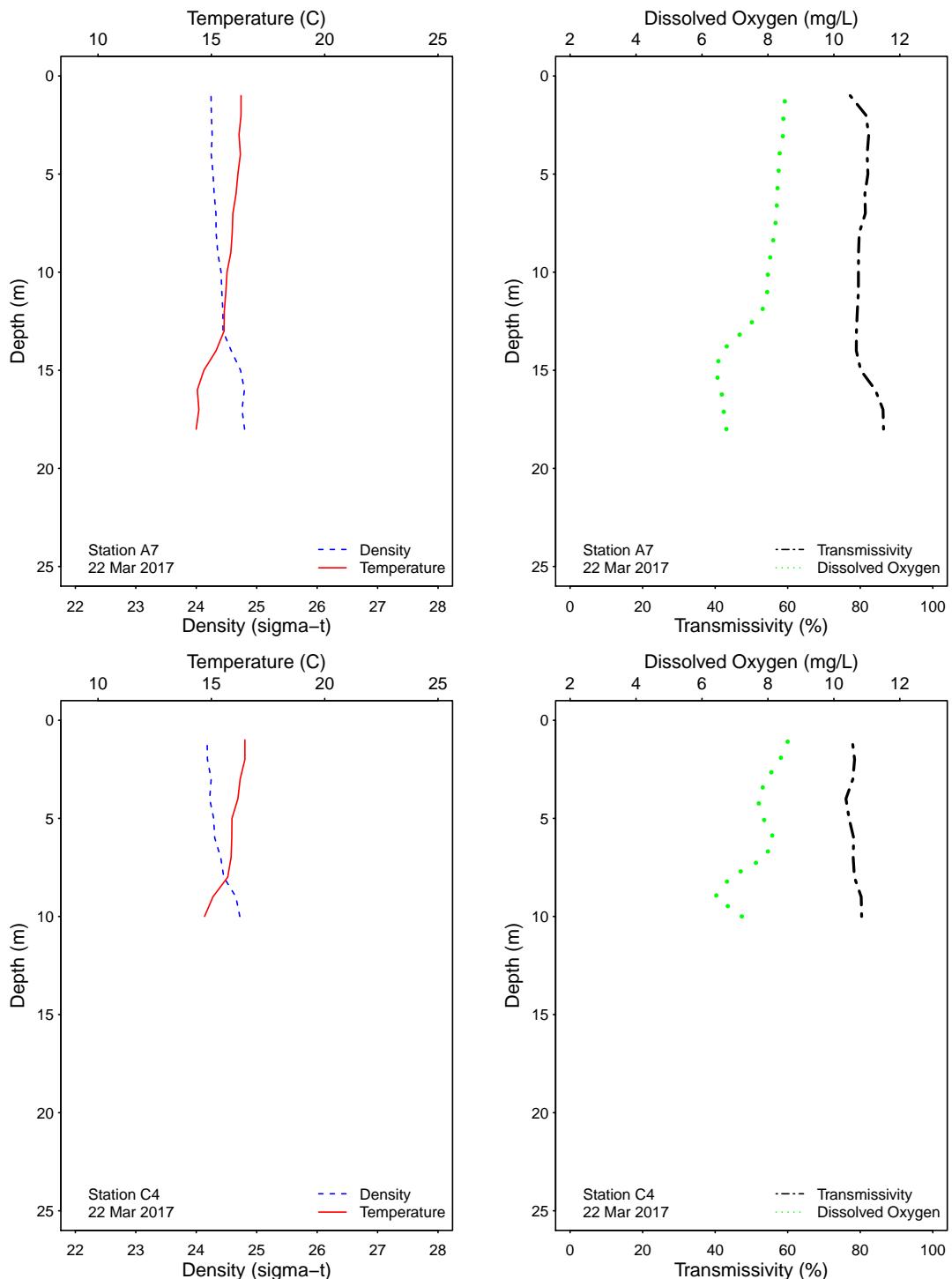


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

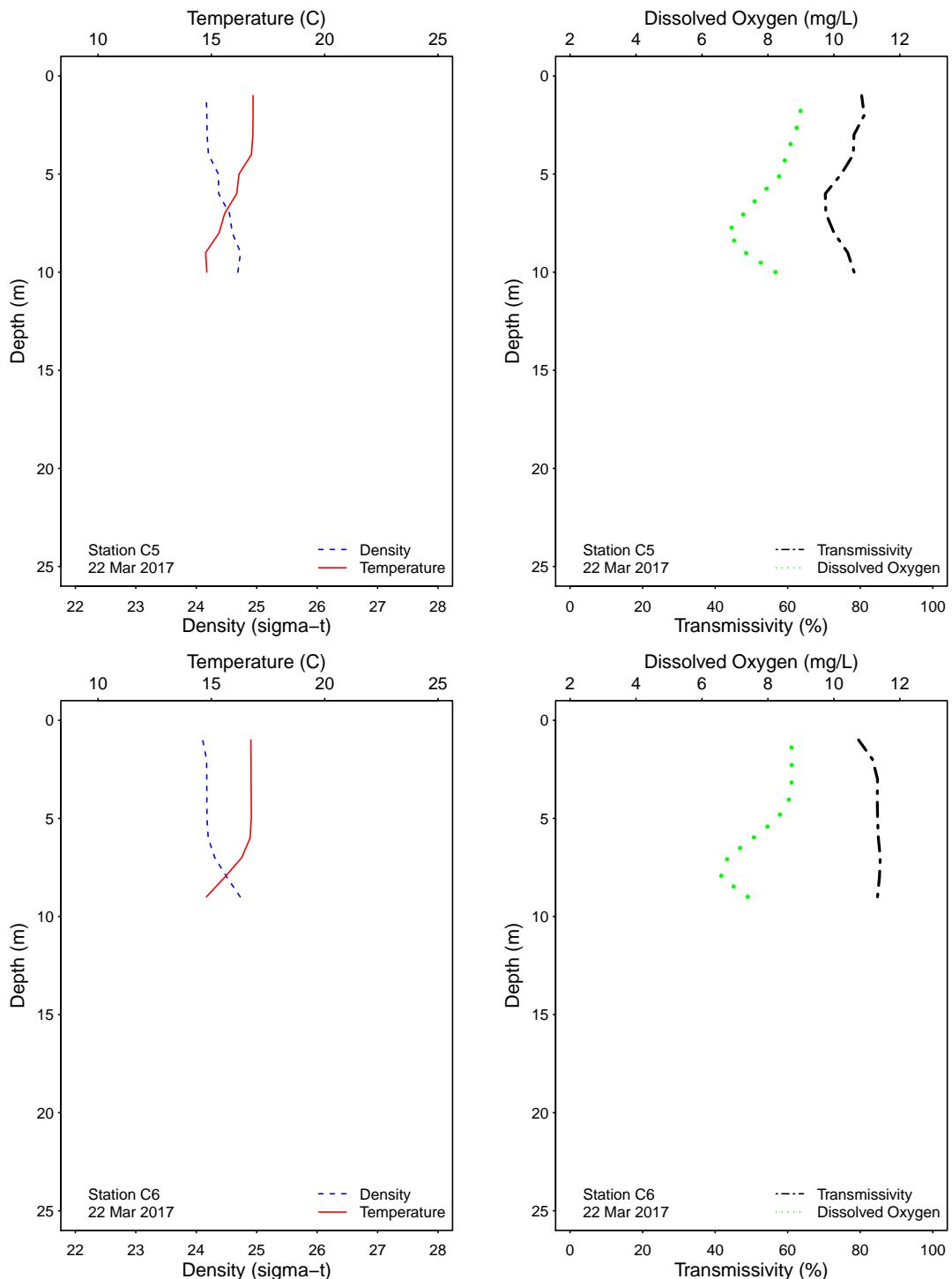


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

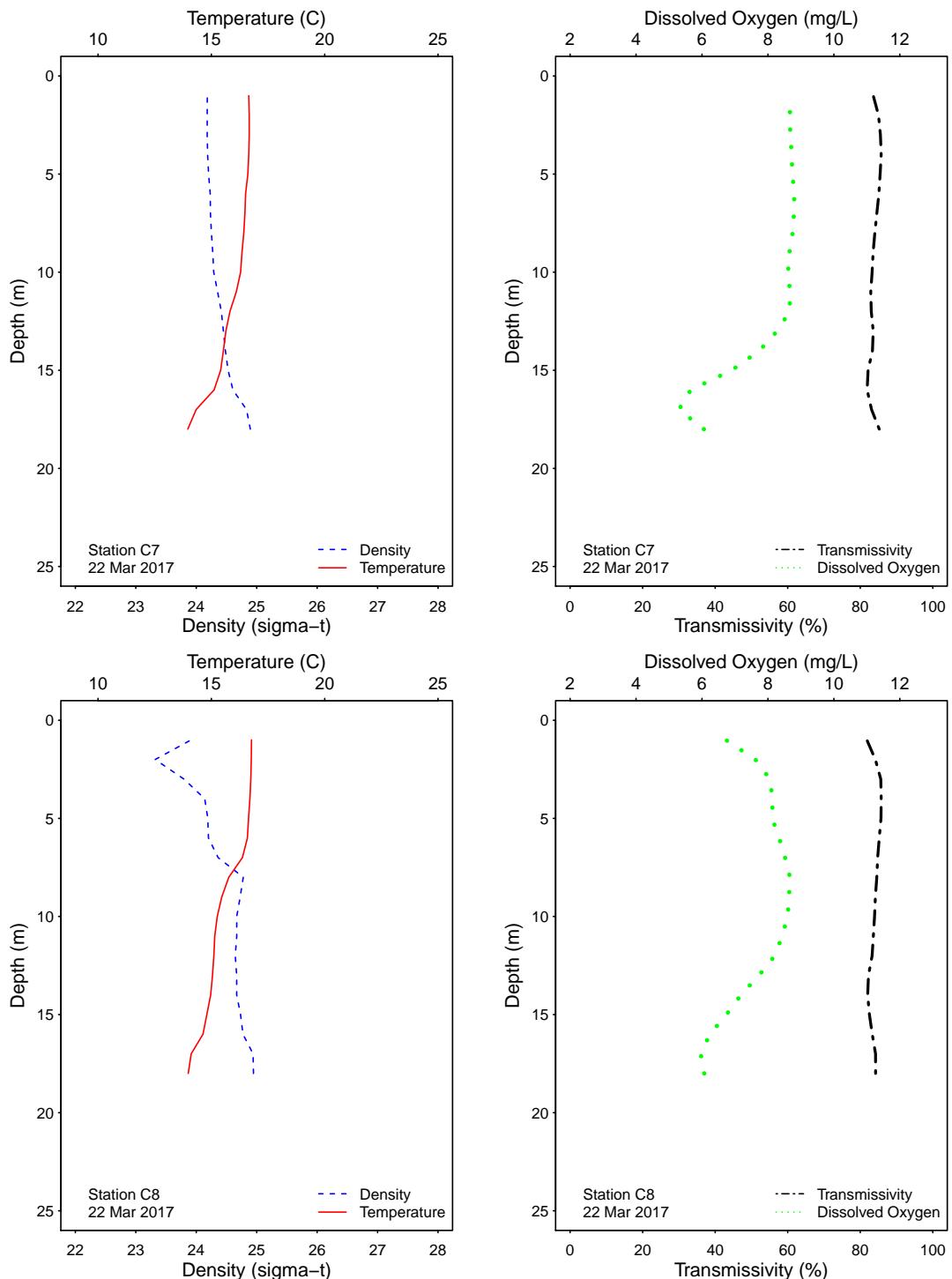


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

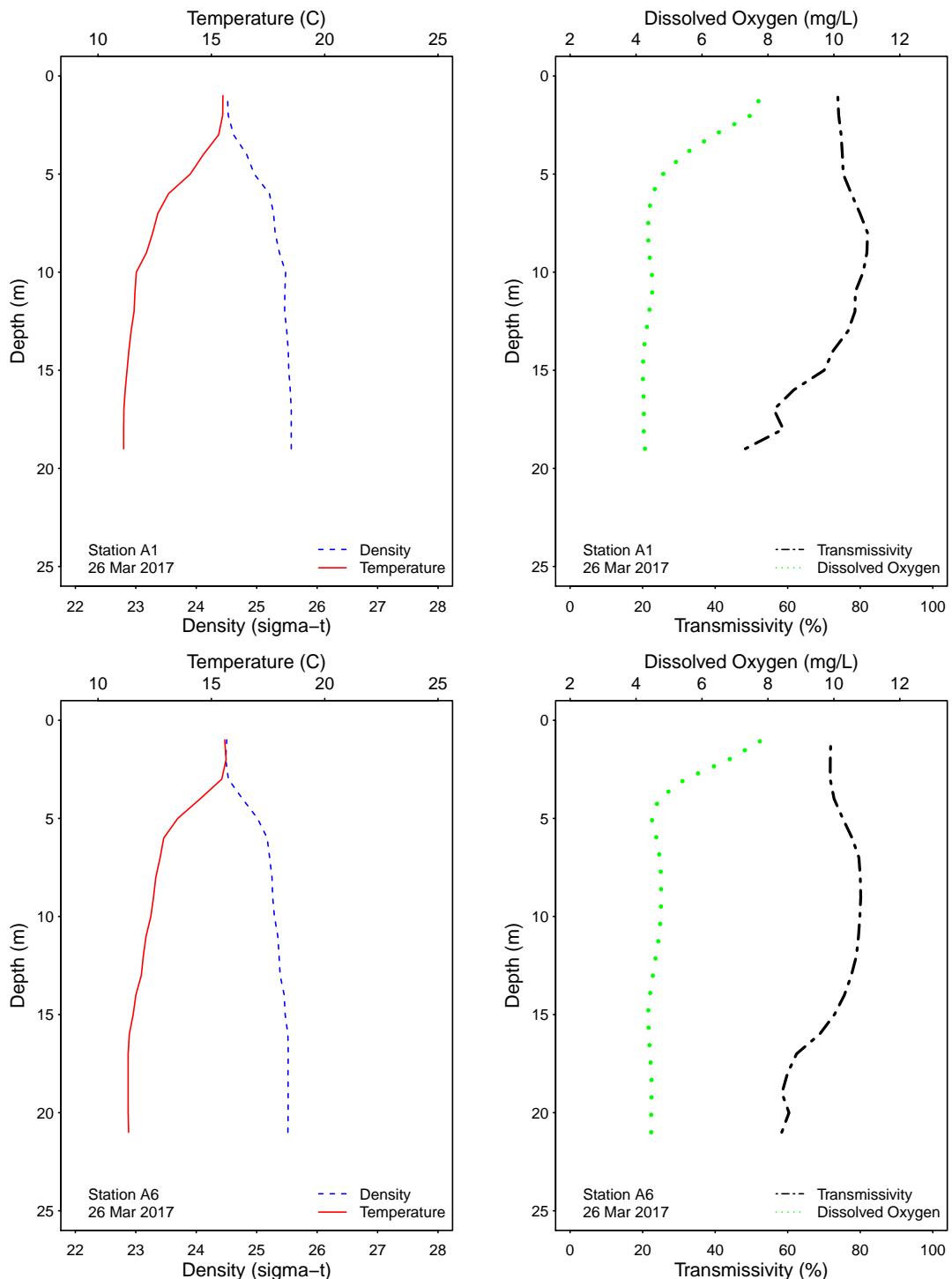


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

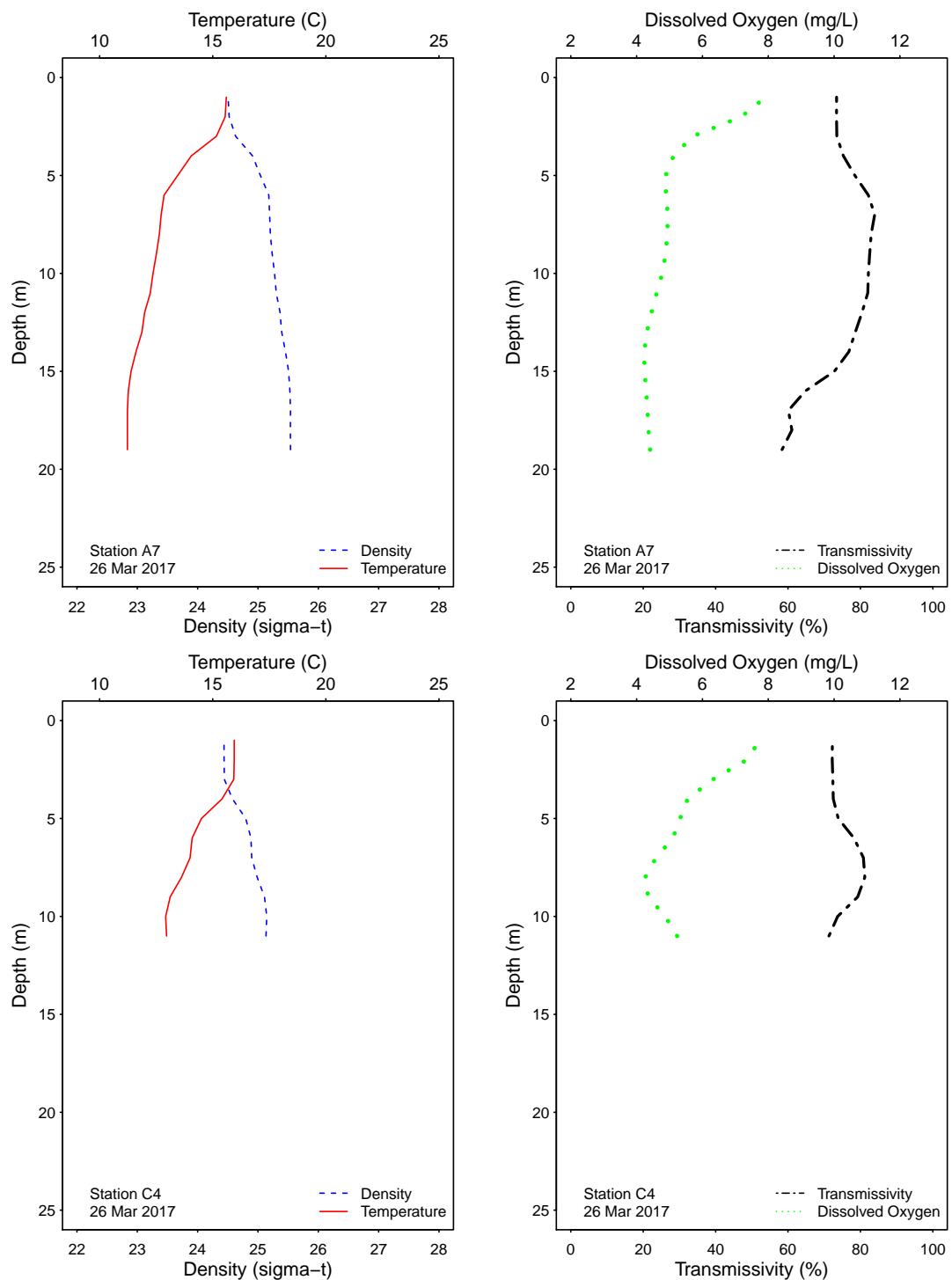


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

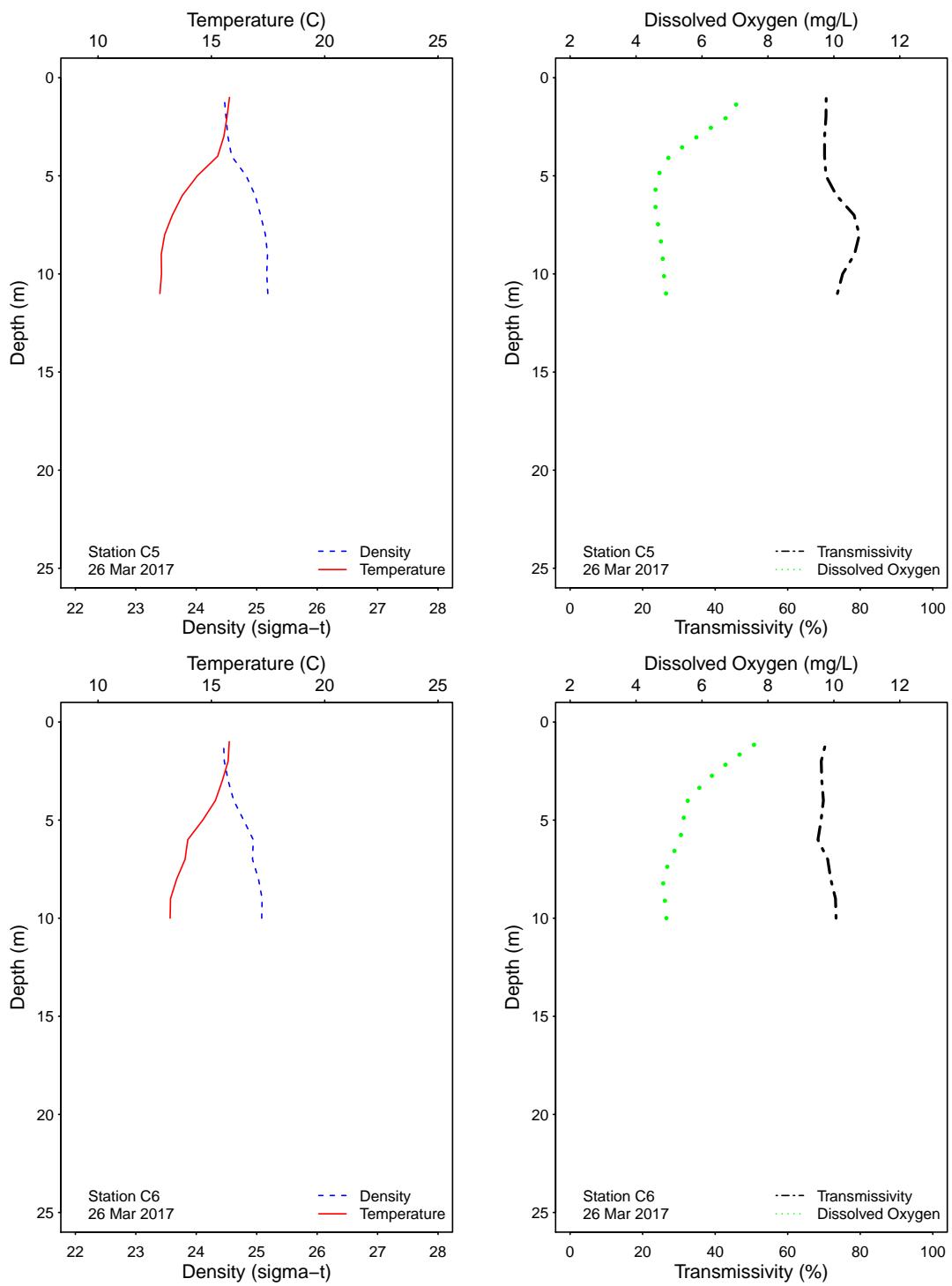


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

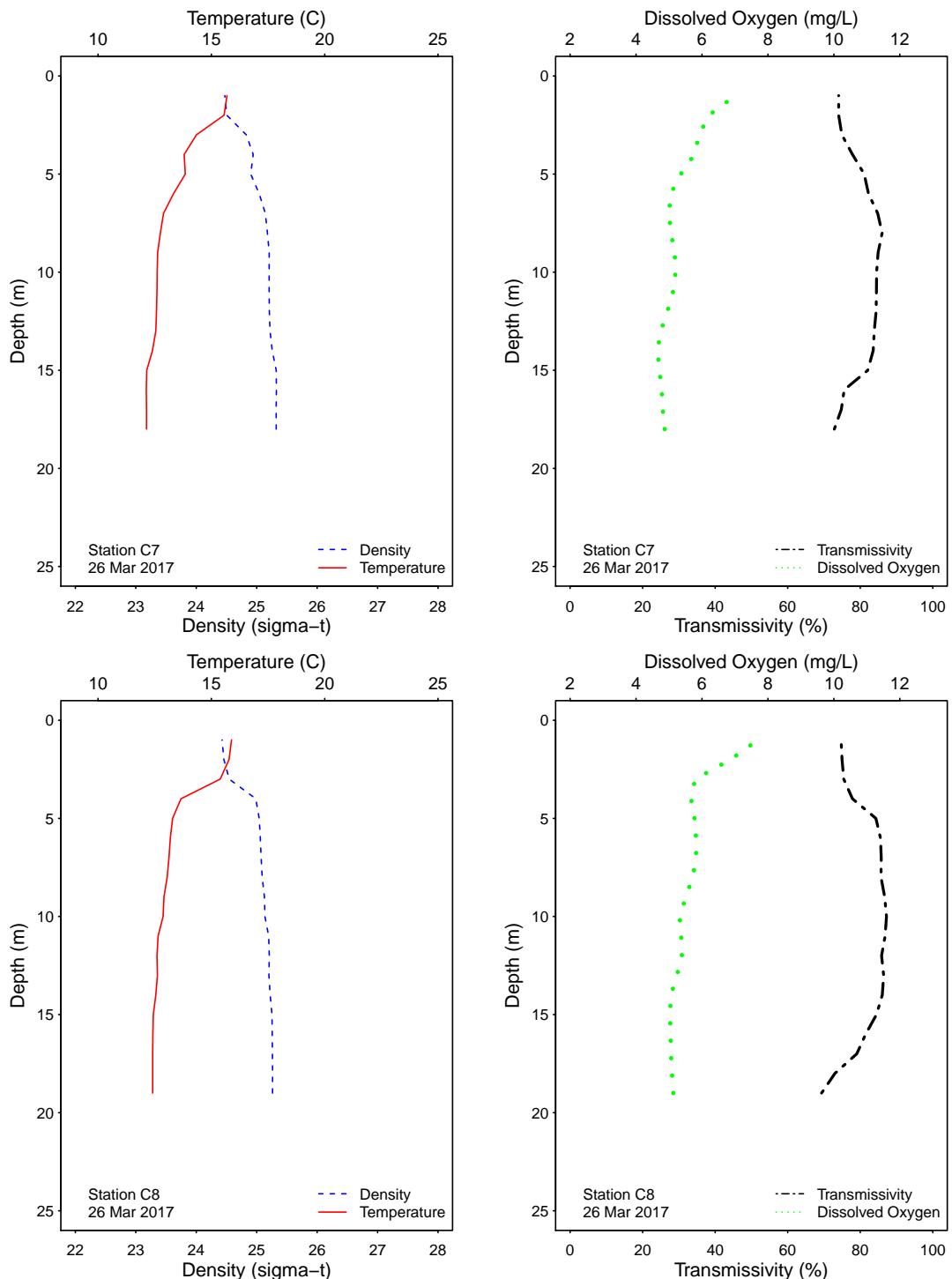


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
A7	03 Mar 2017	18	LM	LAB DUPLICATE	6e	<2	6e
A7	09 Mar 2017	18	LMA	LAB DUPLICATE	120e	16e	8e
A7	18 Mar 2017	18	AR	LAB DUPLICATE	2e	<2	<2
A7	22 Mar 2017	18	AR	LAB DUPLICATE	ns	<2	10e
A7	22 Mar 2017	18	LMA	LAB DUPLICATE	<2	ns	ns
A7	26 Mar 2017	18	AR	LAB DUPLICATE	ns	10e	ns
A7	26 Mar 2017	18	JT	LAB DUPLICATE	100e	ns	28e
C7	03 Mar 2017	18	LM	LAB DUPLICATE	32e	<2	6e
C7	09 Mar 2017	18	LMA	LAB DUPLICATE	40	2e	2e
C7	18 Mar 2017	18	AR	LAB DUPLICATE	<2	<2	<2
C7	22 Mar 2017	18	AR	LAB DUPLICATE	ns	<2	<2
C7	22 Mar 2017	18	LMA	LAB DUPLICATE	<2	ns	ns
C7	26 Mar 2017	18	AR	LAB DUPLICATE	ns	<2	ns
C7	26 Mar 2017	18	JT	LAB DUPLICATE	18e	ns	6e
C8	03 Mar 2017	12	LM	LAB DUPLICATE	120e	2e	36e
C8	09 Mar 2017	12	LMA	LAB DUPLICATE	4e	4e	<2
C8	18 Mar 2017	12	JT	LAB DUPLICATE	<2	<2	<2
C8	22 Mar 2017	12	AR	LAB DUPLICATE	ns	<2	<2
C8	22 Mar 2017	12	LMA	LAB DUPLICATE	<2	ns	ns
C8	26 Mar 2017	12	AR	LAB DUPLICATE	ns	<2	ns
C8	26 Mar 2017	12	JT	LAB DUPLICATE	<2	ns	<2
D12	06 Mar 2017	ZV		FIELD DUPLICATE	4e	<2	<2
D12	06 Mar 2017	ZV		LAB DUPLICATE	<2	<2	<2
D12	12 Mar 2017	ZV		FIELD DUPLICATE	22e	<2	16e
D12	12 Mar 2017	ZV		LAB DUPLICATE	8e	6e	22e
D12	18 Mar 2017	JT		FIELD DUPLICATE	20e	<2	<2
D12	18 Mar 2017	JT		LAB DUPLICATE	<20	<2	<2
D12	24 Mar 2017	ZV		FIELD DUPLICATE	60e	24e	<2
D12	24 Mar 2017	ZV		LAB DUPLICATE	240e	36e	60
D12	30 Mar 2017	LMA		FIELD DUPLICATE	<20	<2	4e
D12	30 Mar 2017	LMA		LAB DUPLICATE	<20	<2	6e

ns = not sampled

ND = no data

