



Monthly Receiving Waters Monitoring Report for the Point Loma Ocean Outfall

(Point Loma Metropolitan Wastewater Treatment Plant)

NPDES Permit No. CA0107409

October 2015



City of San Diego
Ocean Monitoring Program
Public Utilities Department
Environmental Monitoring and Technical Services Division



THE CITY OF SAN DIEGO

November 30, 2015

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 October 2015 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,

A handwritten signature in blue ink that reads "Peter S. Vroom".

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

TDS:asb

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

Environmental Monitoring and Technical Services Division • Public Utilities

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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). 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.

Van Dorn bottles are used to collect seawater samples from discrete depths at the kelp bed stations. The bottles are arrayed at the required depths and messenger-tripped in series. 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. However, it should be noted that the CTD measurements and bacteriological samples are taken from separate hydrocasts.

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:

^[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.

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

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

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 2015 Quality Assurance Report, which will be completed in March 2016.

SUMMARY OF RESULTS

Shore Stations

- During October 2015, five of the eight shore stations were out of compliance with various water-contact standards specified in the Ocean Plan as follows:
 - o The geometric mean standard for *Enterococcus* was exceeded at station D12 on four days during the month.
 - o The single sample maximum (SSM) standard for *Enterococcus* was exceeded at stations D5, D8, D10, and D12 on one or more days during the month.
 - o The SSM standards for total coliform, fecal coliform, and the standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 were each exceeded at station D11 on October 14.
- Per Ocean Plan requirements, resamples were collected in response to the SSM exceedances (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 October included: foam present at stations D5 and D12 on October 15 and 29 respectively.

Kelp Bed Stations

- The eight kelp bed water quality stations (A1, A6, A7, C4, C5, C6, C7, C8) were sampled five times during October (i.e. October 1, 7, 13, 24, 26).
- During October, each of the kelp bed stations was in compliance with all of the water-contact standards specified in the Ocean Plan for total coliform, fecal coliform, and *Enterococcus* bacteria.
- Water column temperatures ranged from 15.48 to 22.39°C during the month. The difference between surface and bottom waters ranged from 0.16 to 6.24°C, indicating that the water column was stratified at the kelp bed stations during the month.
- Chlorophyll *a* concentrations ranged from 0.28 to 3.37µg/L during October, suggesting the absence of phytoplankton blooms during the month.
- There were no notable visual observations for October.

Offshore Stations

- Quarterly sampling was not conducted during October at the offshore stations. The next quarterly sampling is scheduled for November 2015.



TABLES AND FIGURES

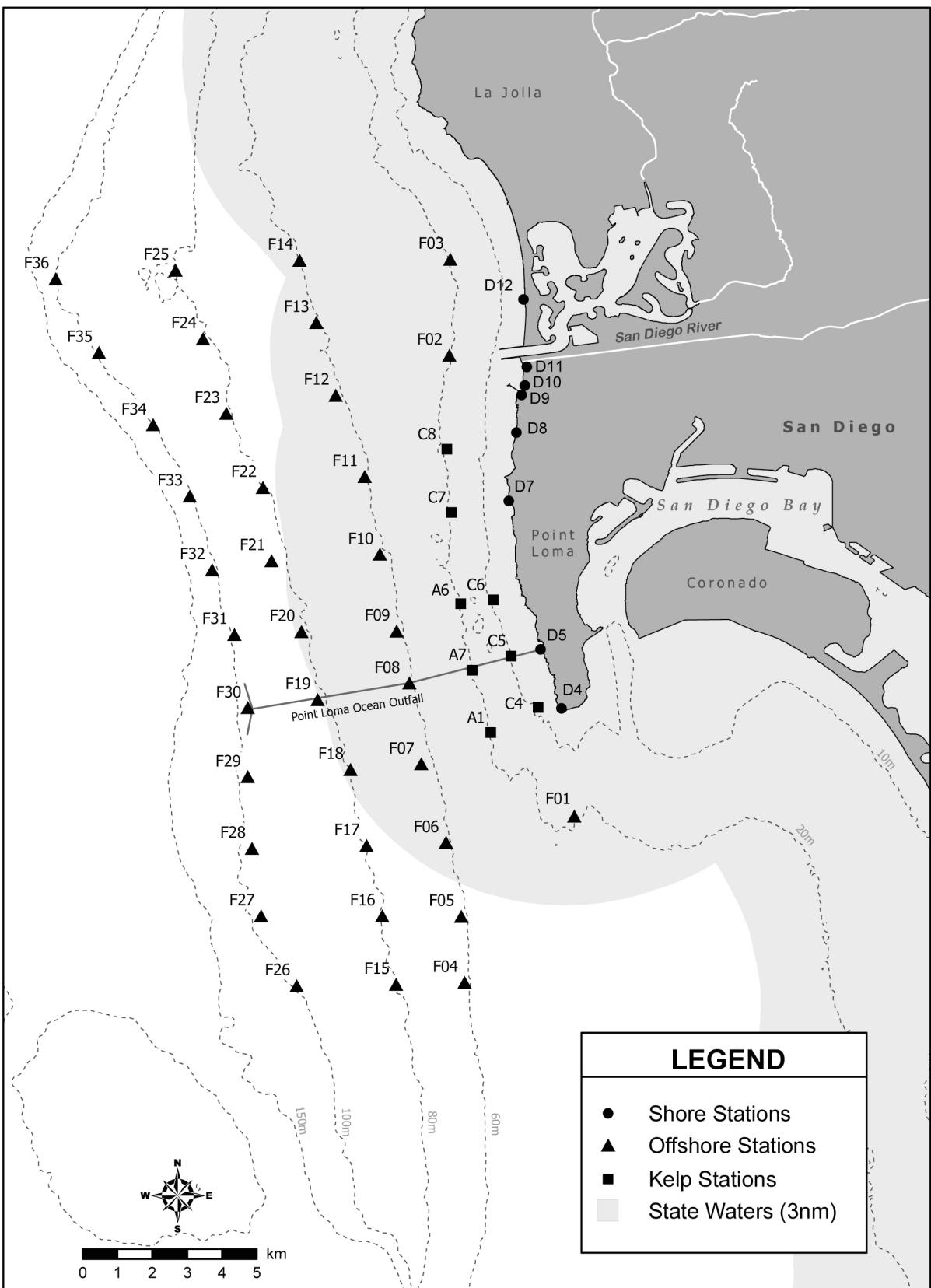


Figure 1.1 Station Map

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	D9	D10	D11	D12
01 Oct 2015	23	50	105	72	32	58	48	20
02 Oct 2015	23	50	139	114	36	36	30	20
03 Oct 2015	23	50	139	114	36	36	30	20
04 Oct 2015	23	50	139	114	36	36	30	20
05 Oct 2015	23	50	139	114	36	36	30	20
06 Oct 2015	23	50	139	114	36	36	30	20
07 Oct 2015	23	50	139	114	36	36	30	20
08 Oct 2015	23	63	139	91	45	63	30	39
09 Oct 2015	23	63	139	91	45	63	30	39
10 Oct 2015	23	63	139	91	45	63	30	39
11 Oct 2015	23	63	139	91	45	63	30	39
12 Oct 2015	23	63	139	91	45	63	30	39
13 Oct 2015	23	63	139	91	45	63	30	39
14 Oct 2015	29	57	121	145	45	99	75	78
15 Oct 2015	29	57	121	145	45	99	60	78
16 Oct 2015	29	57	121	145	45	99	60	78
17 Oct 2015	29	57	121	145	45	99	60	78
18 Oct 2015	29	57	121	145	45	99	60	78
19 Oct 2015	29	57	121	145	45	99	60	78
20 Oct 2015	20	36	105	80	48	99	60	49
21 Oct 2015	20	36	105	80	48	99	60	49
22 Oct 2015	20	36	105	80	48	99	60	49
23 Oct 2015	20	36	105	80	48	99	60	49
24 Oct 2015	20	36	105	80	48	99	60	49
25 Oct 2015	20	36	105	80	48	99	60	49
26 Oct 2015	20	36	72	126	30	99	88	90
27 Oct 2015	20	36	72	126	30	99	88	90
28 Oct 2015	20	36	72	126	30	99	88	90
29 Oct 2015	20	36	72	126	30	99	88	90
30 Oct 2015	20	36	72	126	30	99	88	90
31 Oct 2015	20	36	72	126	30	99	88	90

* Geometric mean calculated using n<5

Table 2.2

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for fecal coliform bacteria at the 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	D9	D10	D11	D12
01 Oct 2015	2	2	6	6	2	3	4	2
02 Oct 2015	2	2	10	4	2	3	2	2
03 Oct 2015	2	2	10	4	2	3	2	2
04 Oct 2015	2	2	10	4	2	3	2	2
05 Oct 2015	2	2	10	4	2	3	2	2
06 Oct 2015	2	2	10	4	2	3	2	2
07 Oct 2015	2	2	10	4	2	3	2	2
08 Oct 2015	2	4	10	8	2	3	3	3
09 Oct 2015	2	4	10	8	2	3	3	3
10 Oct 2015	2	4	10	8	2	3	3	3
11 Oct 2015	2	4	10	8	2	3	3	3
12 Oct 2015	2	4	10	8	2	3	3	3
13 Oct 2015	2	4	10	8	2	3	3	3
14 Oct 2015	2	6	12	9	2	6	10	5
15 Oct 2015	2	6	12	9	2	6	7	5
16 Oct 2015	2	6	12	9	2	6	7	5
17 Oct 2015	2	6	12	9	2	6	7	5
18 Oct 2015	2	6	12	9	2	6	7	5
19 Oct 2015	2	6	12	9	2	6	7	5
20 Oct 2015	2	5	11	10	3	6	7	5
21 Oct 2015	2	5	11	10	3	6	7	5
22 Oct 2015	2	5	11	10	3	6	7	5
23 Oct 2015	2	5	11	10	3	6	7	5
24 Oct 2015	2	5	11	10	3	6	7	5
25 Oct 2015	2	5	11	10	3	6	7	5
26 Oct 2015	2	6	6	16	3	12	8	9
27 Oct 2015	2	6	6	16	3	12	8	9
28 Oct 2015	2	6	6	16	3	12	8	9
29 Oct 2015	2	6	6	16	3	12	8	9
30 Oct 2015	2	6	6	16	3	12	8	9
31 Oct 2015	2	6	6	16	3	12	8	9

* Geometric mean calculated using n<5

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the 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	D9	D10	D11	D12
01 Oct 2015	3	2	5	6	3	4	6	3
02 Oct 2015	3	2	5	6	4	5	6	3
03 Oct 2015	3	2	5	6	4	5	6	3
04 Oct 2015	3	2	5	6	4	5	6	3
05 Oct 2015	3	2	5	6	4	5	6	3
06 Oct 2015	3	2	5	6	4	5	6	3
07 Oct 2015	3	2	5	6	4	5	6	3
08 Oct 2015	3	3	8	19	3	5	7	7
09 Oct 2015	3	3	8	23	3	5	7	7
10 Oct 2015	3	3	8	23	3	5	7	7
11 Oct 2015	3	3	8	23	3	5	7	7
12 Oct 2015	3	3	8	23	3	5	7	7
13 Oct 2015	3	3	8	23	3	5	7	7
14 Oct 2015	3	8	9	20	6	13	9	15
15 Oct 2015	3	9	9	20	6	15	9	14
16 Oct 2015	3	9	9	20	6	15	9	14
17 Oct 2015	3	9	9	20	6	15	9	14
18 Oct 2015	3	9	9	20	6	15	9	14
19 Oct 2015	3	9	9	20	6	15	9	14
20 Oct 2015	2	9	8	18	6	15	9	14
21 Oct 2015	2	9	8	18	6	15	9	14
22 Oct 2015	2	9	8	18	6	15	9	14
23 Oct 2015	2	9	8	18	6	15	9	14
24 Oct 2015	2	9	8	18	6	15	9	14
25 Oct 2015	2	9	8	18	6	15	9	14
26 Oct 2015	2	13	4	25	8	26	13	30
27 Oct 2015	2	13	4	25	8	26	13	30
28 Oct 2015	2	13	4	25	8	30	13	39
29 Oct 2015	2	13	4	25	8	30	13	57
30 Oct 2015	2	13	4	25	8	30	13	39
31 Oct 2015	2	13	4	25	8	30	13	39

* Geometric mean calculated using n<5

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	D9	D10	D11	D12
02 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
14 Oct 2015	IC	IC	IC	IC	IC	IC	E	IC
15 Oct 2015	ns	ns	ns	ns	ns	ns	IC	ns
20 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
26 Oct 2015	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	D9	D10	D11	D12
02 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
14 Oct 2015	IC	IC	IC	IC	IC	IC	E	IC
15 Oct 2015	ns	ns	ns	ns	ns	ns	IC	ns
20 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
26 Oct 2015	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	D9	D10	D11	D12
02 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2015	IC	IC	IC	E	IC	IC	IC	IC
09 Oct 2015	ns	ns	ns	IC	ns	ns	ns	ns
14 Oct 2015	IC	E	IC	IC	IC	E	IC	E
15 Oct 2015	ns	IC	ns	ns	ns	IC	ns	IC
20 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
26 Oct 2015	IC	IC	IC	IC	IC	E	IC	E
28 Oct 2015	ns	ns	ns	ns	ns	IC	ns	E
29 Oct 2015	ns	ns	ns	ns	ns	ns	ns	E
30 Oct 2015	ns	ns	ns	ns	ns	ns	ns	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	D9	D10	D11	D12
02 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
08 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
14 Oct 2015	IC	IC	IC	IC	IC	IC	E	IC
15 Oct 2015	ns	ns	ns	ns	ns	ns	IC	ns
20 Oct 2015	IC	IC	IC	IC	IC	IC	IC	IC
26 Oct 2015	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	02 Oct 2015	956	<20	<2	<2	0.10
	08 Oct 2015	946	20e	<2	<2	0.10
	14 Oct 2015	1020	60e	<2	<2	0.03
	20 Oct 2015	1030	6e	2e	<2	0.33
	26 Oct 2015	1110	<20	<2	6e	0.10
D5	02 Oct 2015	1016	20e	<2	<2	0.10
	08 Oct 2015	958	60e	<20	20e	0.33
	14 Oct 2015	1059	120e	24e	240e	0.20
	15 Oct 2015	955	ns	ns	10e	ns
	20 Oct 2015	1051	<20	<2	<2	0.10
	26 Oct 2015	1123	20e	6e	20e	0.30
D7	02 Oct 2015	930	80e	38e	2e	0.47
	08 Oct 2015	921	<200	2e	16e	0.01
	14 Oct 2015	953	100e	24e	14e	0.24
	20 Oct 2015	1002	20e	2e	<2	0.10
	26 Oct 2015	1045	60e	<2	<2	0.03
D8	02 Oct 2015	916	<200	<2	2e	0.01
	08 Oct 2015	911	<200	60e	2800e	0.30
	09 Oct 2015	1306	ns	ns	60e	ns
	14 Oct 2015	940	<200	12e	6e	0.06
	20 Oct 2015	946	20e	10e	4e	0.50
	26 Oct 2015	1031	200e	74	34e	0.37
D9	02 Oct 2015	902	40e	4e	20e	0.10
	08 Oct 2015	902	60e	<2	2e	0.03
	14 Oct 2015	927	20e	2e	38e	0.10
	20 Oct 2015	930	26e	10e	2e	0.38
	26 Oct 2015	1006	20e	<2	10e	0.10
D10	02 Oct 2015	851	40e	8e	8e	0.20
	08 Oct 2015	852	300e	4e	8e	0.01
	14 Oct 2015	916	200e	44	240e	0.22
	15 Oct 2015	920	ns	ns	34e	ns
	20 Oct 2015	915	<20	<2	2e	0.10
	26 Oct 2015	948	<200	80	320e	0.40
D11	28 Oct 2015	1011	ns	ns	68	ns
D11	02 Oct 2015	840	20e	2e	8e	0.10
D11	08 Oct 2015	839	20e	4e	6e	0.20

Station	Date	Time	Total	Fecal	Enterο	F:T
D11	14 Oct 2015	906	15000	2600e	46	0.17
D11	15 Oct 2015	909	<20	<2	ns	0.10
D11	20 Oct 2015	858	20e	2e	2e	0.10
D11	26 Oct 2015	934	<200	4e	88	0.02
D12	02 Oct 2015	816	<20	<2	2e	0.10
D12	08 Oct 2015	823	600e	32e	100	0.05
D12	14 Oct 2015	847	600e	18e	300e	0.03
D12	15 Oct 2015	850	ns	ns	12e	ns
D12	20 Oct 2015	836	2e	<2	<2	1.00
D12	26 Oct 2015	908	400e	<20	460	0.05
D12	28 Oct 2015	952	ns	ns	200e	ns
D12	29 Oct 2015	1221	ns	ns	820	ns
D12	30 Oct 2015	1339	ns	ns	2e	ns

ns = not sampled

Comments

Station	Date	Depth	Parameter	Comments
D8	09 Oct 2015			Resample
D11	15 Oct 2015			Resample
D12	15 Oct 2015			Resample
D10	15 Oct 2015			Resample
D5	15 Oct 2015			Resample
D10	28 Oct 2015			Resample
D12	28 Oct 2015			Resample
D12	29 Oct 2015			Resample
D12	30 Oct 2015			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	02 Oct 2015	Arrive Time	956
D4	02 Oct 2015	Weather	Sunny
D4	02 Oct 2015	Wind Speed (kts)	3.5
D4	02 Oct 2015	Wind Dir	NW
D4	02 Oct 2015	Animal Life	None
D4	02 Oct 2015	Floatables	None
D4	02 Oct 2015	Water Color	Green
D4	02 Oct 2015	Current Direction	S
D4	02 Oct 2015	Wave Height Low (ft)	2
D4	02 Oct 2015	High Tide (ft)	5.5
D4	02 Oct 2015	High Tide Time	1234
D4	02 Oct 2015	Low Tide (ft)	1.9
D4	02 Oct 2015	Low Tide Time	622
D4	02 Oct 2015	Comments	Kelp; Seagrass; Water clear
D4	08 Oct 2015	Arrive Time	946
D4	08 Oct 2015	Weather	Sunny
D4	08 Oct 2015	Wind Speed (kts)	0.3
D4	08 Oct 2015	Wind Dir	N
D4	08 Oct 2015	Animal Life	None
D4	08 Oct 2015	Floatables	None
D4	08 Oct 2015	Water Color	Green
D4	08 Oct 2015	Current Direction	N
D4	08 Oct 2015	Wave Height Low (ft)	2
D4	08 Oct 2015	High Tide (ft)	4.7
D4	08 Oct 2015	High Tide Time	739
D4	08 Oct 2015	Low Tide (ft)	1.5
D4	08 Oct 2015	Low Tide Time	1335
D4	08 Oct 2015	Comments	Seagrass; Algae; Water clear
D4	14 Oct 2015	Arrive Time	1020
D4	14 Oct 2015	Weather	Partly Cloudy
D4	14 Oct 2015	Wind Speed (kts)	2.9
D4	14 Oct 2015	Wind Dir	NW
D4	14 Oct 2015	Animal Life	None
D4	14 Oct 2015	Floatables	None
D4	14 Oct 2015	Water Color	Grey
D4	14 Oct 2015	Current Direction	S
D4	14 Oct 2015	Wave Height Low (ft)	3
D4	14 Oct 2015	High Tide (ft)	5.5
D4	14 Oct 2015	High Tide Time	1000
D4	14 Oct 2015	Low Tide (ft)	1.3
D4	14 Oct 2015	Low Tide Time	356
D4	14 Oct 2015	Comments	Kelp; Seagrass; Water clear
D4	20 Oct 2015	Arrive Time	1030
D4	20 Oct 2015	Weather	Sunny
D4	20 Oct 2015	Wind Speed (kts)	4
D4	20 Oct 2015	Wind Dir	SW
D4	20 Oct 2015	Animal Life	None
D4	20 Oct 2015	Floatables	None

Station	Date	Parameter	Value
D4	20 Oct 2015	Water Color	Green
D4	20 Oct 2015	Current Direction	SW
D4	20 Oct 2015	Wave Height Low (ft)	3
D4	20 Oct 2015	High Tide (ft)	4.4
D4	20 Oct 2015	High Tide Time	1451
D4	20 Oct 2015	Low Tide (ft)	3
D4	20 Oct 2015	Low Tide Time	857
D4	20 Oct 2015	Comments	Kelp; Seagrass; 4 Surfers; Water turbid
D4	26 Oct 2015	Arrive Time	1110
D4	26 Oct 2015	Weather	Sunny
D4	26 Oct 2015	Wind Speed (kts)	3.8
D4	26 Oct 2015	Wind Dir	SW
D4	26 Oct 2015	Animal Life	None
D4	26 Oct 2015	Floatables	None
D4	26 Oct 2015	Water Color	Green
D4	26 Oct 2015	Current Direction	SW
D4	26 Oct 2015	Wave Height Low (ft)	2
D4	26 Oct 2015	High Tide (ft)	6.4
D4	26 Oct 2015	High Tide Time	832
D4	26 Oct 2015	Low Tide (ft)	-0.6
D4	26 Oct 2015	Low Tide Time	1509
D4	26 Oct 2015	Comments	Kelp; Seagrass; Water clear
D5	02 Oct 2015	Arrive Time	1016
D5	02 Oct 2015	Weather	Sunny
D5	02 Oct 2015	Wind Speed (kts)	2.2
D5	02 Oct 2015	Wind Dir	SW
D5	02 Oct 2015	Animal Life	None
D5	02 Oct 2015	Floatables	None
D5	02 Oct 2015	Water Color	Green
D5	02 Oct 2015	Current Direction	S
D5	02 Oct 2015	Wave Height Low (ft)	2
D5	02 Oct 2015	High Tide (ft)	5.5
D5	02 Oct 2015	High Tide Time	1234
D5	02 Oct 2015	Low Tide (ft)	1.9
D5	02 Oct 2015	Low Tide Time	622
D5	02 Oct 2015	Comments	Kelp; Seagrass; Water clear
D5	08 Oct 2015	Arrive Time	958
D5	08 Oct 2015	Weather	Sunny
D5	08 Oct 2015	Wind Speed (kts)	3.3
D5	08 Oct 2015	Wind Dir	N
D5	08 Oct 2015	Animal Life	None
D5	08 Oct 2015	Floatables	None
D5	08 Oct 2015	Water Color	Green
D5	08 Oct 2015	Current Direction	N
D5	08 Oct 2015	Wave Height Low (ft)	2
D5	08 Oct 2015	High Tide (ft)	4.7
D5	08 Oct 2015	High Tide Time	739
D5	08 Oct 2015	Low Tide (ft)	1.5
D5	08 Oct 2015	Low Tide Time	1335
D5	08 Oct 2015	Comments	Kelp; Water clear
D5	14 Oct 2015	Arrive Time	1059

Station	Date	Parameter	Value
D5	14 Oct 2015	Weather	Partly Cloudy
D5	14 Oct 2015	Wind Speed (kts)	2.7
D5	14 Oct 2015	Wind Dir	NW
D5	14 Oct 2015	Animal Life	None
D5	14 Oct 2015	Floatables	None
D5	14 Oct 2015	Water Color	Green
D5	14 Oct 2015	Current Direction	S
D5	14 Oct 2015	Wave Height Low (ft)	3
D5	14 Oct 2015	High Tide (ft)	5.5
D5	14 Oct 2015	High Tide Time	1000
D5	14 Oct 2015	Low Tide (ft)	0.3
D5	14 Oct 2015	Low Tide Time	1646
D5	14 Oct 2015	Comments	Kelp; Seagrass; Water clear
D5	15 Oct 2015	Arrive Time	955
D5	15 Oct 2015	Weather	Cloudy
D5	15 Oct 2015	Wind Speed (kts)	2.9
D5	15 Oct 2015	Wind Dir	NW
D5	15 Oct 2015	Animal Life	1 Seal
D5	15 Oct 2015	Floatables	None
D5	15 Oct 2015	Water Color	Green
D5	15 Oct 2015	Current Direction	NW
D5	15 Oct 2015	Wave Height Low (ft)	3
D5	15 Oct 2015	High Tide (ft)	5.4
D5	15 Oct 2015	High Tide Time	1026
D5	15 Oct 2015	Low Tide (ft)	1.6
D5	15 Oct 2015	Low Tide Time	420
D5	15 Oct 2015	Comments	Resample; Kelp; Seagrass; Water clear; Lots of foam in water
D5	20 Oct 2015	Arrive Time	1051
D5	20 Oct 2015	Weather	Sunny
D5	20 Oct 2015	Wind Speed (kts)	4
D5	20 Oct 2015	Wind Dir	SW
D5	20 Oct 2015	Animal Life	1 Cormorant; 7 Seagulls
D5	20 Oct 2015	Floatables	None
D5	20 Oct 2015	Water Color	Green
D5	20 Oct 2015	Current Direction	SW
D5	20 Oct 2015	Wave Height Low (ft)	4
D5	20 Oct 2015	High Tide (ft)	4.4
D5	20 Oct 2015	High Tide Time	1451
D5	20 Oct 2015	Low Tide (ft)	3
D5	20 Oct 2015	Low Tide Time	857
D5	20 Oct 2015	Comments	Kelp; Seagrass; Water turbid
D5	26 Oct 2015	Arrive Time	1123
D5	26 Oct 2015	Weather	Sunny
D5	26 Oct 2015	Wind Speed (kts)	3.2
D5	26 Oct 2015	Wind Dir	SW
D5	26 Oct 2015	Animal Life	None
D5	26 Oct 2015	Floatables	None
D5	26 Oct 2015	Water Color	Brown
D5	26 Oct 2015	Current Direction	SW
D5	26 Oct 2015	Wave Height Low (ft)	2
D5	26 Oct 2015	High Tide (ft)	6.4
D5	26 Oct 2015	High Tide Time	832

Station	Date	Parameter	Value
D5	26 Oct 2015	Low Tide (ft)	-0.6
D5	26 Oct 2015	Low Tide Time	1509
D5	26 Oct 2015	Comments	Kelp; Seagrass; Water clear
D7	02 Oct 2015	Arrive Time	930
D7	02 Oct 2015	Weather	Partly Cloudy
D7	02 Oct 2015	Wind Speed (kts)	3.3
D7	02 Oct 2015	Wind Dir	W
D7	02 Oct 2015	Animal Life	None
D7	02 Oct 2015	Floatables	None
D7	02 Oct 2015	Water Color	Green
D7	02 Oct 2015	Current Direction	SW
D7	02 Oct 2015	Wave Height Low (ft)	2
D7	02 Oct 2015	High Tide (ft)	5.5
D7	02 Oct 2015	High Tide Time	1234
D7	02 Oct 2015	Low Tide (ft)	1.9
D7	02 Oct 2015	Low Tide Time	622
D7	02 Oct 2015	Comments	Kelp; Seagrass; 4 Persons; Water clear
D7	08 Oct 2015	Arrive Time	921
D7	08 Oct 2015	Weather	Sunny
D7	08 Oct 2015	Wind Speed (kts)	3.3
D7	08 Oct 2015	Wind Dir	N
D7	08 Oct 2015	Animal Life	None
D7	08 Oct 2015	Floatables	None
D7	08 Oct 2015	Water Color	Green
D7	08 Oct 2015	Current Direction	N
D7	08 Oct 2015	Wave Height Low (ft)	3
D7	08 Oct 2015	High Tide (ft)	4.7
D7	08 Oct 2015	High Tide Time	739
D7	08 Oct 2015	Low Tide (ft)	1.5
D7	08 Oct 2015	Low Tide Time	1335
D7	08 Oct 2015	Comments	Kelp; Seagrass; Algae; Water clear
D7	14 Oct 2015	Arrive Time	953
D7	14 Oct 2015	Weather	Sunny
D7	14 Oct 2015	Wind Speed (kts)	0
D7	14 Oct 2015	Wind Dir	
D7	14 Oct 2015	Animal Life	None
D7	14 Oct 2015	Floatables	None
D7	14 Oct 2015	Water Color	Green
D7	14 Oct 2015	Current Direction	S
D7	14 Oct 2015	Wave Height Low (ft)	2
D7	14 Oct 2015	High Tide (ft)	5.5
D7	14 Oct 2015	High Tide Time	1000
D7	14 Oct 2015	Low Tide (ft)	1.3
D7	14 Oct 2015	Low Tide Time	356
D7	14 Oct 2015	Comments	Kelp; Seagrass; 3 Surfers
D7	20 Oct 2015	Arrive Time	1002
D7	20 Oct 2015	Weather	Sunny
D7	20 Oct 2015	Wind Speed (kts)	4
D7	20 Oct 2015	Wind Dir	SW
D7	20 Oct 2015	Animal Life	None
D7	20 Oct 2015	Floatables	None

Station	Date	Parameter	Value
D7	20 Oct 2015	Water Color	Green
D7	20 Oct 2015	Current Direction	SW
D7	20 Oct 2015	Wave Height Low (ft)	4
D7	20 Oct 2015	High Tide (ft)	4.4
D7	20 Oct 2015	High Tide Time	1451
D7	20 Oct 2015	Low Tide (ft)	3
D7	20 Oct 2015	Low Tide Time	857
D7	20 Oct 2015	Comments	Kelp; Seagrass; 7 Surfers; Water turbid
D7	26 Oct 2015	Arrive Time	1045
D7	26 Oct 2015	Weather	Sunny
D7	26 Oct 2015	Wind Speed (kts)	3.3
D7	26 Oct 2015	Wind Dir	W
D7	26 Oct 2015	Animal Life	None
D7	26 Oct 2015	Floatables	None
D7	26 Oct 2015	Water Color	Green
D7	26 Oct 2015	Current Direction	S
D7	26 Oct 2015	Wave Height Low (ft)	4
D7	26 Oct 2015	High Tide (ft)	6.4
D7	26 Oct 2015	High Tide Time	832
D7	26 Oct 2015	Low Tide (ft)	-0.6
D7	26 Oct 2015	Low Tide Time	1509
D7	26 Oct 2015	Comments	Kelp; Seagrass; Water clear
D8	02 Oct 2015	Arrive Time	916
D8	02 Oct 2015	Weather	Partly Cloudy
D8	02 Oct 2015	Wind Speed (kts)	1.2
D8	02 Oct 2015	Wind Dir	SW
D8	02 Oct 2015	Animal Life	None
D8	02 Oct 2015	Floatables	None
D8	02 Oct 2015	Water Color	Green
D8	02 Oct 2015	Current Direction	S
D8	02 Oct 2015	Wave Height Low (ft)	2
D8	02 Oct 2015	High Tide (ft)	5.5
D8	02 Oct 2015	High Tide Time	1234
D8	02 Oct 2015	Low Tide (ft)	1.9
D8	02 Oct 2015	Low Tide Time	622
D8	02 Oct 2015	Comments	Kelp; Seagrass; Water clear
D8	08 Oct 2015	Arrive Time	911
D8	08 Oct 2015	Weather	Partly Cloudy
D8	08 Oct 2015	Wind Speed (kts)	1.3
D8	08 Oct 2015	Wind Dir	N
D8	08 Oct 2015	Animal Life	None
D8	08 Oct 2015	Floatables	None
D8	08 Oct 2015	Water Color	Green
D8	08 Oct 2015	Current Direction	N
D8	08 Oct 2015	Wave Height Low (ft)	3
D8	08 Oct 2015	High Tide (ft)	4.7
D8	08 Oct 2015	High Tide Time	739
D8	08 Oct 2015	Low Tide (ft)	1.5
D8	08 Oct 2015	Low Tide Time	1335
D8	08 Oct 2015	Comments	Kelp; Seagrass; Algae; Water turbid
D8	09 Oct 2015	Arrive Time	1306

Station	Date	Parameter	Value
D8	09 Oct 2015	Weather	Sunny
D8	09 Oct 2015	Wind Speed (kts)	7
D8	09 Oct 2015	Wind Dir	SE
D8	09 Oct 2015	Animal Life	None
D8	09 Oct 2015	Floatables	None
D8	09 Oct 2015	Water Color	Brown
D8	09 Oct 2015	Current Direction	SE
D8	09 Oct 2015	Wave Height Low (ft)	3
D8	09 Oct 2015	High Tide (ft)	5
D8	09 Oct 2015	High Tide Time	803
D8	09 Oct 2015	Low Tide (ft)	1.1
D8	09 Oct 2015	Low Tide Time	1408
D8	09 Oct 2015	Comments	Resample; Kelp; Seagrass; 7 Persons; Water turbid; Heavy earth-mover workers and equipment at seawall
D8	14 Oct 2015	Arrive Time	940
D8	14 Oct 2015	Weather	Sunny
D8	14 Oct 2015	Wind Speed (kts)	1.2
D8	14 Oct 2015	Wind Dir	W
D8	14 Oct 2015	Animal Life	None
D8	14 Oct 2015	Floatables	None
D8	14 Oct 2015	Water Color	Green
D8	14 Oct 2015	Current Direction	S
D8	14 Oct 2015	Wave Height Low (ft)	2
D8	14 Oct 2015	High Tide (ft)	5.5
D8	14 Oct 2015	High Tide Time	1000
D8	14 Oct 2015	Low Tide (ft)	1.3
D8	14 Oct 2015	Low Tide Time	356
D8	14 Oct 2015	Comments	Kelp; Seagrass; 1 Swimmer; Water clear
D8	20 Oct 2015	Arrive Time	946
D8	20 Oct 2015	Weather	Sunny
D8	20 Oct 2015	Wind Speed (kts)	3
D8	20 Oct 2015	Wind Dir	SW
D8	20 Oct 2015	Animal Life	None
D8	20 Oct 2015	Floatables	None
D8	20 Oct 2015	Water Color	Brown
D8	20 Oct 2015	Current Direction	SW
D8	20 Oct 2015	Wave Height Low (ft)	3
D8	20 Oct 2015	High Tide (ft)	4.4
D8	20 Oct 2015	High Tide Time	1451
D8	20 Oct 2015	Low Tide (ft)	3
D8	20 Oct 2015	Low Tide Time	857
D8	20 Oct 2015	Comments	Kelp; Seagrass; Water turbid
D8	26 Oct 2015	Arrive Time	1031
D8	26 Oct 2015	Weather	Sunny
D8	26 Oct 2015	Wind Speed (kts)	2.5
D8	26 Oct 2015	Wind Dir	W
D8	26 Oct 2015	Animal Life	None
D8	26 Oct 2015	Floatables	None
D8	26 Oct 2015	Water Color	Green
D8	26 Oct 2015	Current Direction	S
D8	26 Oct 2015	Wave Height Low (ft)	2
D8	26 Oct 2015	High Tide (ft)	6.4

Station	Date	Parameter	Value
D8	26 Oct 2015	High Tide Time	832
D8	26 Oct 2015	Low Tide (ft)	-0.6
D8	26 Oct 2015	Low Tide Time	1509
D8	26 Oct 2015	Comments	Kelp; Seagrass; Water clear
D9	02 Oct 2015	Arrive Time	902
D9	02 Oct 2015	Weather	Partly Cloudy
D9	02 Oct 2015	Wind Speed (kts)	0.9
D9	02 Oct 2015	Wind Dir	SW
D9	02 Oct 2015	Animal Life	None
D9	02 Oct 2015	Floatables	None
D9	02 Oct 2015	Water Color	Green
D9	02 Oct 2015	Current Direction	S
D9	02 Oct 2015	Wave Height Low (ft)	2
D9	02 Oct 2015	High Tide (ft)	5.5
D9	02 Oct 2015	High Tide Time	1234
D9	02 Oct 2015	Low Tide (ft)	1.9
D9	02 Oct 2015	Low Tide Time	622
D9	02 Oct 2015	Comments	Kelp; Seagrass; Water clear
D9	08 Oct 2015	Arrive Time	902
D9	08 Oct 2015	Weather	Partly Cloudy
D9	08 Oct 2015	Wind Speed (kts)	1.1
D9	08 Oct 2015	Wind Dir	N
D9	08 Oct 2015	Animal Life	None
D9	08 Oct 2015	Floatables	None
D9	08 Oct 2015	Water Color	Green
D9	08 Oct 2015	Current Direction	N
D9	08 Oct 2015	Wave Height Low (ft)	2
D9	08 Oct 2015	High Tide (ft)	4.7
D9	08 Oct 2015	High Tide Time	739
D9	08 Oct 2015	Low Tide (ft)	1.5
D9	08 Oct 2015	Low Tide Time	1335
D9	08 Oct 2015	Comments	Kelp; Algae; Water clear
D9	14 Oct 2015	Arrive Time	927
D9	14 Oct 2015	Weather	Sunny
D9	14 Oct 2015	Wind Speed (kts)	3.6
D9	14 Oct 2015	Wind Dir	NW
D9	14 Oct 2015	Animal Life	None
D9	14 Oct 2015	Floatables	None
D9	14 Oct 2015	Water Color	Green
D9	14 Oct 2015	Current Direction	S
D9	14 Oct 2015	Wave Height Low (ft)	3
D9	14 Oct 2015	High Tide (ft)	5.5
D9	14 Oct 2015	High Tide Time	1000
D9	14 Oct 2015	Low Tide (ft)	1.3
D9	14 Oct 2015	Low Tide Time	356
D9	14 Oct 2015	Comments	Kelp; Seagrass; 3 Persons
D9	20 Oct 2015	Arrive Time	930
D9	20 Oct 2015	Weather	Sunny
D9	20 Oct 2015	Wind Speed (kts)	3
D9	20 Oct 2015	Wind Dir	SW
D9	20 Oct 2015	Animal Life	None

Station	Date	Parameter	Value
D9	20 Oct 2015	Floatables	None
D9	20 Oct 2015	Water Color	Brown
D9	20 Oct 2015	Current Direction	SW
D9	20 Oct 2015	Wave Height Low (ft)	3
D9	20 Oct 2015	High Tide (ft)	3.5
D9	20 Oct 2015	High Tide Time	425
D9	20 Oct 2015	Low Tide (ft)	3
D9	20 Oct 2015	Low Tide Time	857
D9	20 Oct 2015	Comments	Kelp; Seagrass; Water turbid
D9	26 Oct 2015	Arrive Time	1006
D9	26 Oct 2015	Weather	Sunny
D9	26 Oct 2015	Wind Speed (kts)	4.8
D9	26 Oct 2015	Wind Dir	W
D9	26 Oct 2015	Animal Life	None
D9	26 Oct 2015	Floatables	None
D9	26 Oct 2015	Water Color	Green
D9	26 Oct 2015	Current Direction	S
D9	26 Oct 2015	Wave Height Low (ft)	3
D9	26 Oct 2015	High Tide (ft)	6.4
D9	26 Oct 2015	High Tide Time	832
D9	26 Oct 2015	Low Tide (ft)	-0.6
D9	26 Oct 2015	Low Tide Time	1509
D9	26 Oct 2015	Comments	Kelp; Seagrass; 4 Persons; Water clear
D10	02 Oct 2015	Arrive Time	851
D10	02 Oct 2015	Weather	Partly Cloudy
D10	02 Oct 2015	Wind Speed (kts)	1.8
D10	02 Oct 2015	Wind Dir	SW
D10	02 Oct 2015	Animal Life	None
D10	02 Oct 2015	Floatables	None
D10	02 Oct 2015	Water Color	Green
D10	02 Oct 2015	Current Direction	S
D10	02 Oct 2015	Wave Height Low (ft)	3
D10	02 Oct 2015	High Tide (ft)	5.5
D10	02 Oct 2015	High Tide Time	1234
D10	02 Oct 2015	Low Tide (ft)	1.9
D10	02 Oct 2015	Low Tide Time	622
D10	02 Oct 2015	Comments	Kelp; Seagrass; 2 Joggers; 6 Persons; 2 Surfers; Water clear
D10	08 Oct 2015	Arrive Time	852
D10	08 Oct 2015	Weather	Partly Cloudy
D10	08 Oct 2015	Wind Speed (kts)	2.5
D10	08 Oct 2015	Wind Dir	N
D10	08 Oct 2015	Animal Life	None
D10	08 Oct 2015	Floatables	None
D10	08 Oct 2015	Water Color	Green
D10	08 Oct 2015	Current Direction	N
D10	08 Oct 2015	Wave Height Low (ft)	3
D10	08 Oct 2015	High Tide (ft)	4.7
D10	08 Oct 2015	High Tide Time	739
D10	08 Oct 2015	Low Tide (ft)	1.5
D10	08 Oct 2015	Low Tide Time	1335
D10	08 Oct 2015	Comments	Kelp; Seagrass; 2 Persons; Water clear

Station	Date	Parameter	Value
D10	14 Oct 2015	Arrive Time	916
D10	14 Oct 2015	Weather	Sunny
D10	14 Oct 2015	Wind Speed (kts)	3.2
D10	14 Oct 2015	Wind Dir	NW
D10	14 Oct 2015	Animal Life	None
D10	14 Oct 2015	Floatables	None
D10	14 Oct 2015	Water Color	Green
D10	14 Oct 2015	Current Direction	S
D10	14 Oct 2015	Wave Height Low (ft)	2
D10	14 Oct 2015	High Tide (ft)	5.5
D10	14 Oct 2015	High Tide Time	1000
D10	14 Oct 2015	Low Tide (ft)	1.3
D10	14 Oct 2015	Low Tide Time	356
D10	14 Oct 2015	Comments	Kelp; Seagrass; 2 Joggers; 5 Persons; 3 Surfers; Water clear
D10	15 Oct 2015	Arrive Time	920
D10	15 Oct 2015	Weather	Cloudy
D10	15 Oct 2015	Wind Speed (kts)	2.7
D10	15 Oct 2015	Wind Dir	NW
D10	15 Oct 2015	Animal Life	None
D10	15 Oct 2015	Floatables	None
D10	15 Oct 2015	Water Color	Green
D10	15 Oct 2015	Current Direction	NW
D10	15 Oct 2015	Wave Height Low (ft)	3
D10	15 Oct 2015	High Tide (ft)	5.4
D10	15 Oct 2015	High Tide Time	1026
D10	15 Oct 2015	Low Tide (ft)	1.6
D10	15 Oct 2015	Low Tide Time	420
D10	15 Oct 2015	Comments	Resample; Kelp; 2 Surfers; Water clear
D10	20 Oct 2015	Arrive Time	915
D10	20 Oct 2015	Weather	Sunny
D10	20 Oct 2015	Wind Speed (kts)	3
D10	20 Oct 2015	Wind Dir	SW
D10	20 Oct 2015	Animal Life	None
D10	20 Oct 2015	Floatables	None
D10	20 Oct 2015	Water Color	Brown
D10	20 Oct 2015	Current Direction	SW
D10	20 Oct 2015	Wave Height Low (ft)	2
D10	20 Oct 2015	High Tide (ft)	3.5
D10	20 Oct 2015	High Tide Time	425
D10	20 Oct 2015	Low Tide (ft)	3
D10	20 Oct 2015	Low Tide Time	857
D10	20 Oct 2015	Comments	Kelp; Seagrass; 4 Surfers; Water turbid
D10	26 Oct 2015	Arrive Time	948
D10	26 Oct 2015	Weather	Sunny
D10	26 Oct 2015	Wind Speed (kts)	3.1
D10	26 Oct 2015	Wind Dir	W
D10	26 Oct 2015	Animal Life	None
D10	26 Oct 2015	Floatables	None
D10	26 Oct 2015	Water Color	Green
D10	26 Oct 2015	Current Direction	S
D10	26 Oct 2015	Wave Height Low (ft)	3
D10	26 Oct 2015	High Tide (ft)	6.4

Station	Date	Parameter	Value
D10	26 Oct 2015	High Tide Time	832
D10	26 Oct 2015	Low Tide (ft)	-0.6
D10	26 Oct 2015	Low Tide Time	1509
D10	26 Oct 2015	Comments	Kelp; Seagrass; 6 Persons; 15 Surfers; Water clear
D10	28 Oct 2015	Arrive Time	1011
D10	28 Oct 2015	Weather	Cloudy
D10	28 Oct 2015	Wind Speed (kts)	4
D10	28 Oct 2015	Wind Dir	E
D10	28 Oct 2015	Animal Life	None
D10	28 Oct 2015	Floatables	None
D10	28 Oct 2015	Water Color	Green
D10	28 Oct 2015	Current Direction	S
D10	28 Oct 2015	Wave Height Low (ft)	3
D10	28 Oct 2015	High Tide (ft)	6.7
D10	28 Oct 2015	High Tide Time	949
D10	28 Oct 2015	Low Tide (ft)	0.8
D10	28 Oct 2015	Low Tide Time	343
D10	28 Oct 2015	Comments	Resample; Kelp; Seagrass; Debris; 16 Surfers; Water clear
D11	02 Oct 2015	Arrive Time	840
D11	02 Oct 2015	Weather	Partly Cloudy
D11	02 Oct 2015	Wind Speed (kts)	1.5
D11	02 Oct 2015	Wind Dir	SW
D11	02 Oct 2015	Animal Life	None
D11	02 Oct 2015	Floatables	None
D11	02 Oct 2015	Water Color	Green
D11	02 Oct 2015	Current Direction	S
D11	02 Oct 2015	Wave Height Low (ft)	3
D11	02 Oct 2015	High Tide (ft)	5.5
D11	02 Oct 2015	High Tide Time	1234
D11	02 Oct 2015	Low Tide (ft)	1.9
D11	02 Oct 2015	Low Tide Time	622
D11	02 Oct 2015	Comments	Kelp; Seagrass; 2 Joggers; 6 Persons; 25 Surfers; Water clear
D11	08 Oct 2015	Arrive Time	839
D11	08 Oct 2015	Weather	Partly Cloudy
D11	08 Oct 2015	Wind Speed (kts)	2.9
D11	08 Oct 2015	Wind Dir	NE
D11	08 Oct 2015	Animal Life	1 Dog
D11	08 Oct 2015	Floatables	None
D11	08 Oct 2015	Water Color	Green
D11	08 Oct 2015	Current Direction	NE
D11	08 Oct 2015	Wave Height Low (ft)	3
D11	08 Oct 2015	High Tide (ft)	4.7
D11	08 Oct 2015	High Tide Time	739
D11	08 Oct 2015	Low Tide (ft)	1.5
D11	08 Oct 2015	Low Tide Time	1335
D11	08 Oct 2015	Comments	Kelp; Seagrass; 2 Surfers; Water clear
D11	14 Oct 2015	Arrive Time	906
D11	14 Oct 2015	Weather	Sunny
D11	14 Oct 2015	Wind Speed (kts)	2.1
D11	14 Oct 2015	Wind Dir	NW
D11	14 Oct 2015	Animal Life	None

Station	Date	Parameter	Value
D11	14 Oct 2015	Floatables	None
D11	14 Oct 2015	Water Color	Green
D11	14 Oct 2015	Current Direction	S
D11	14 Oct 2015	Wave Height Low (ft)	2
D11	14 Oct 2015	High Tide (ft)	5.5
D11	14 Oct 2015	High Tide Time	1000
D11	14 Oct 2015	Low Tide (ft)	1.3
D11	14 Oct 2015	Low Tide Time	356
D11	14 Oct 2015	Comments	Kelp; Seagrass; 9 Persons; 4 Surfers; Water clear
D11	15 Oct 2015	Arrive Time	909
D11	15 Oct 2015	Weather	Cloudy
D11	15 Oct 2015	Wind Speed (kts)	3.1
D11	15 Oct 2015	Wind Dir	NW
D11	15 Oct 2015	Animal Life	None
D11	15 Oct 2015	Floatables	None
D11	15 Oct 2015	Water Color	Green
D11	15 Oct 2015	Current Direction	NW
D11	15 Oct 2015	Wave Height Low (ft)	3
D11	15 Oct 2015	High Tide (ft)	5.4
D11	15 Oct 2015	High Tide Time	1026
D11	15 Oct 2015	Low Tide (ft)	1.6
D11	15 Oct 2015	Low Tide Time	420
D11	15 Oct 2015	Comments	Resample; Seagrass; 2 Persons; Water clear
D11	20 Oct 2015	Arrive Time	858
D11	20 Oct 2015	Weather	Sunny
D11	20 Oct 2015	Wind Speed (kts)	3
D11	20 Oct 2015	Wind Dir	SW
D11	20 Oct 2015	Animal Life	None
D11	20 Oct 2015	Floatables	None
D11	20 Oct 2015	Water Color	Colorless
D11	20 Oct 2015	Current Direction	SW
D11	20 Oct 2015	Wave Height Low (ft)	2
D11	20 Oct 2015	High Tide (ft)	3.5
D11	20 Oct 2015	High Tide Time	425
D11	20 Oct 2015	Low Tide (ft)	3
D11	20 Oct 2015	Low Tide Time	857
D11	20 Oct 2015	Comments	Kelp; Seagrass; 20 Surfers; Water clear
D11	26 Oct 2015	Arrive Time	934
D11	26 Oct 2015	Weather	Sunny
D11	26 Oct 2015	Wind Speed (kts)	2.1
D11	26 Oct 2015	Wind Dir	SW
D11	26 Oct 2015	Animal Life	20 Dogs
D11	26 Oct 2015	Floatables	None
D11	26 Oct 2015	Water Color	Green
D11	26 Oct 2015	Current Direction	S
D11	26 Oct 2015	Wave Height Low (ft)	2
D11	26 Oct 2015	High Tide (ft)	6.4
D11	26 Oct 2015	High Tide Time	832
D11	26 Oct 2015	Low Tide (ft)	-0.6
D11	26 Oct 2015	Low Tide Time	1509
D11	26 Oct 2015	Comments	Kelp; Seagrass; 10 Joggers; 13 Persons; Water clear

Station	Date	Parameter	Value
D12	02 Oct 2015	Arrive Time	816
D12	02 Oct 2015	Weather	Partly Cloudy
D12	02 Oct 2015	Wind Speed (kts)	2.1
D12	02 Oct 2015	Wind Dir	NE
D12	02 Oct 2015	Animal Life	25 Seagulls
D12	02 Oct 2015	Floatables	None
D12	02 Oct 2015	Water Color	Green
D12	02 Oct 2015	Current Direction	S
D12	02 Oct 2015	Wave Height Low (ft)	3
D12	02 Oct 2015	High Tide (ft)	5.5
D12	02 Oct 2015	High Tide Time	1234
D12	02 Oct 2015	Low Tide (ft)	1.9
D12	02 Oct 2015	Low Tide Time	622
D12	02 Oct 2015	Comments	Kelp; Seagrass; 3 Joggers; 3 Persons; 1 Surfer; Water clear; Walk-way construction.
D12	08 Oct 2015	Arrive Time	823
D12	08 Oct 2015	Weather	Partly Cloudy
D12	08 Oct 2015	Wind Speed (kts)	1.1
D12	08 Oct 2015	Wind Dir	E
D12	08 Oct 2015	Animal Life	None
D12	08 Oct 2015	Floatables	None
D12	08 Oct 2015	Water Color	Green
D12	08 Oct 2015	Current Direction	E
D12	08 Oct 2015	Wave Height Low (ft)	3
D12	08 Oct 2015	High Tide (ft)	4.7
D12	08 Oct 2015	High Tide Time	739
D12	08 Oct 2015	Low Tide (ft)	1.5
D12	08 Oct 2015	Low Tide Time	1335
D12	08 Oct 2015	Comments	Kelp; Seagrass; Water clear
D12	14 Oct 2015	Arrive Time	847
D12	14 Oct 2015	Weather	Sunny
D12	14 Oct 2015	Wind Speed (kts)	3.1
D12	14 Oct 2015	Wind Dir	NW
D12	14 Oct 2015	Animal Life	10 Shorebirds; 25 Seagulls
D12	14 Oct 2015	Floatables	None
D12	14 Oct 2015	Water Color	Green
D12	14 Oct 2015	Current Direction	S
D12	14 Oct 2015	Wave Height Low (ft)	2
D12	14 Oct 2015	High Tide (ft)	5.5
D12	14 Oct 2015	High Tide Time	1000
D12	14 Oct 2015	Low Tide (ft)	1.3
D12	14 Oct 2015	Low Tide Time	356
D12	14 Oct 2015	Comments	Kelp; Seagrass; 3 Joggers; 26 Persons; Water clear
D12	15 Oct 2015	Arrive Time	850
D12	15 Oct 2015	Weather	Cloudy
D12	15 Oct 2015	Wind Speed (kts)	3.4
D12	15 Oct 2015	Wind Dir	NW
D12	15 Oct 2015	Animal Life	None
D12	15 Oct 2015	Floatables	None
D12	15 Oct 2015	Water Color	Green
D12	15 Oct 2015	Current Direction	NW
D12	15 Oct 2015	Wave Height Low (ft)	2

Station	Date	Parameter	Value
D12	15 Oct 2015	High Tide (ft)	5.4
D12	15 Oct 2015	High Tide Time	1026
D12	15 Oct 2015	Low Tide (ft)	1.6
D12	15 Oct 2015	Low Tide Time	420
D12	15 Oct 2015	Comments	Resample; Kelp; Seagrass; Water clear; More kelp accumulated on the beach
D12	20 Oct 2015	Arrive Time	836
D12	20 Oct 2015	Weather	Sunny
D12	20 Oct 2015	Wind Speed (kts)	2
D12	20 Oct 2015	Wind Dir	SW
D12	20 Oct 2015	Animal Life	20 Seagulls
D12	20 Oct 2015	Floatables	None
D12	20 Oct 2015	Water Color	Colorless
D12	20 Oct 2015	Current Direction	SW
D12	20 Oct 2015	Wave Height Low (ft)	2
D12	20 Oct 2015	High Tide (ft)	3.5
D12	20 Oct 2015	High Tide Time	425
D12	20 Oct 2015	Low Tide (ft)	3
D12	20 Oct 2015	Low Tide Time	857
D12	20 Oct 2015	Comments	Kelp; Seagrass; Water clear
D12	26 Oct 2015	Arrive Time	908
D12	26 Oct 2015	Weather	Sunny
D12	26 Oct 2015	Wind Speed (kts)	1.4
D12	26 Oct 2015	Wind Dir	NE
D12	26 Oct 2015	Animal Life	None
D12	26 Oct 2015	Floatables	None
D12	26 Oct 2015	Water Color	Green
D12	26 Oct 2015	Current Direction	S
D12	26 Oct 2015	Wave Height Low (ft)	1
D12	26 Oct 2015	High Tide (ft)	6.4
D12	26 Oct 2015	High Tide Time	832
D12	26 Oct 2015	Low Tide (ft)	-0.6
D12	26 Oct 2015	Low Tide Time	1509
D12	26 Oct 2015	Comments	Kelp; Seagrass; 2 Joggers; 5 Persons; 1 Surfer; 4 Swimmers; Water clear
D12	28 Oct 2015	Arrive Time	952
D12	28 Oct 2015	Weather	Overcast
D12	28 Oct 2015	Wind Speed (kts)	4.4
D12	28 Oct 2015	Wind Dir	S
D12	28 Oct 2015	Animal Life	None
D12	28 Oct 2015	Floatables	None
D12	28 Oct 2015	Water Color	Green
D12	28 Oct 2015	Current Direction	S
D12	28 Oct 2015	Wave Height Low (ft)	4
D12	28 Oct 2015	High Tide (ft)	6.7
D12	28 Oct 2015	High Tide Time	949
D12	28 Oct 2015	Low Tide (ft)	0.8
D12	28 Oct 2015	Low Tide Time	343
D12	28 Oct 2015	Comments	Resample; Kelp; Seagrass; 4 Persons; 2 Surfers; Water clear
D12	29 Oct 2015	Arrive Time	1221
D12	29 Oct 2015	Weather	Sunny

Station	Date	Parameter	Value
D12	29 Oct 2015	Wind Speed (kts)	7
D12	29 Oct 2015	Wind Dir	NW
D12	29 Oct 2015	Animal Life	None
D12	29 Oct 2015	Floatables	None
D12	29 Oct 2015	Water Color	Green
D12	29 Oct 2015	Current Direction	NW
D12	29 Oct 2015	Wave Height Low (ft)	3
D12	29 Oct 2015	High Tide (ft)	6.5
D12	29 Oct 2015	High Tide Time	1029
D12	29 Oct 2015	Low Tide (ft)	-0.8
D12	29 Oct 2015	Low Tide Time	1732
D12	29 Oct 2015	Comments	Resample; Kelp; Seagrass; 21 Persons; Water turbid; Much foam and plastic debris on beach
D12	30 Oct 2015	Arrive Time	1339
D12	30 Oct 2015	Weather	Sunny
D12	30 Oct 2015	Wind Speed (kts)	7.5
D12	30 Oct 2015	Wind Dir	W
D12	30 Oct 2015	Animal Life	None
D12	30 Oct 2015	Floatables	None
D12	30 Oct 2015	Water Color	Green
D12	30 Oct 2015	Current Direction	W
D12	30 Oct 2015	Wave Height Low (ft)	3
D12	30 Oct 2015	High Tide (ft)	6.1
D12	30 Oct 2015	High Tide Time	1113
D12	30 Oct 2015	Low Tide (ft)	-0.4
D12	30 Oct 2015	Low Tide Time	1825
D12	30 Oct 2015	Comments	Resample; Kelp; Seagrass; 20 Surfers; 20 Swimmers; Water turbid; More than 20 sun bathers on the sand beach

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 Oct 2015	16	14	27	4	4	7	5	3
02 Oct 2015	16	14	27	4	4	7	5	3
03 Oct 2015	16	14	27	4	4	7	5	3
04 Oct 2015	19	16	38	3	4	8	4	3
05 Oct 2015	19	16	38	3	4	8	4	3
06 Oct 2015	19	16	38	3	4	8	4	3
07 Oct 2015	16	11	23	3	4	7	3	3
08 Oct 2015	16	11	23	3	4	7	3	3
09 Oct 2015	16	11	23	3	4	7	3	3
10 Oct 2015	25	16	29	3	4	6	3	3
11 Oct 2015	25	16	29	3	4	6	3	3
12 Oct 2015	25	16	29	3	4	6	3	3
13 Oct 2015	16	11	27	3	5	7	3	3
14 Oct 2015	16	11	27	3	5	7	3	3
15 Oct 2015	12	12	23	4	6	9	3	3
16 Oct 2015	12	12	23	4	6	9	3	3
17 Oct 2015	12	12	23	4	6	9	3	3
18 Oct 2015	12	12	23	4	6	9	3	3
19 Oct 2015	12	12	23	4	6	9	3	3
20 Oct 2015	12	12	23	4	6	9	3	3
21 Oct 2015	8*	8*	15*	3*	6*	8*	3*	4*
22 Oct 2015	8*	8*	15*	3*	6*	8*	3*	4*
23 Oct 2015	8*	8*	15*	3*	6*	8*	3*	4*
24 Oct 2015	6	6	10	3	7	6	3	3
25 Oct 2015	6	6	10	3	7	6	3	3
26 Oct 2015	5	6	8	4	9	6	3	3
27 Oct 2015	3	6	5	4	10	6	3	3
28 Oct 2015	3	6	5	4	10	6	3	3
29 Oct 2015	3	6	5	4	10	6	3	3
30 Oct 2015	3	6	5	4	10	6	3	3
31 Oct 2015	3*	3*	4*	5*	11*	5*	3*	3*

* 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 Oct 2015	2	3	3	2	2	2	2	2
02 Oct 2015	2	3	3	2	2	2	2	2
03 Oct 2015	2	3	3	2	2	2	2	2
04 Oct 2015	2	3	3	2	2	2	2	2
05 Oct 2015	2	3	3	2	2	2	2	2
06 Oct 2015	2	3	3	2	2	2	2	2
07 Oct 2015	2	3	3	2	2	2	2	2
08 Oct 2015	2	3	3	2	2	2	2	2
09 Oct 2015	2	3	3	2	2	2	2	2
10 Oct 2015	2	3	3	2	2	2	2	2
11 Oct 2015	2	3	3	2	2	2	2	2
12 Oct 2015	2	3	3	2	2	2	2	2
13 Oct 2015	2	3	3	2	2	2	2	2
14 Oct 2015	2	3	3	2	2	2	2	2
15 Oct 2015	2	3	3	2	2	2	2	2
16 Oct 2015	2	3	3	2	2	2	2	2
17 Oct 2015	2	3	3	2	2	2	2	2
18 Oct 2015	2	3	3	2	2	2	2	2
19 Oct 2015	2	3	3	2	2	2	2	2
20 Oct 2015	2	3	3	2	2	2	2	2
21 Oct 2015	2*	3*	2*	2*	2*	2*	2*	2*
22 Oct 2015	2*	3*	2*	2*	2*	2*	2*	2*
23 Oct 2015	2*	3*	2*	2*	2*	2*	2*	2*
24 Oct 2015	2	2	2	2	2	2	2	2
25 Oct 2015	2	2	2	2	2	2	2	2
26 Oct 2015	2	2	2	2	2	2	2	2
27 Oct 2015	2	2	2	2	2	2	2	2
28 Oct 2015	2	2	2	2	2	2	2	2
29 Oct 2015	2	2	2	2	2	2	2	2
30 Oct 2015	2	2	2	2	2	2	2	2
31 Oct 2015	2*	2*	2*	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 Oct 2015	2	2	2	2	2	2	3	3
02 Oct 2015	2	2	2	2	2	2	3	3
03 Oct 2015	2	2	2	2	2	2	3	3
04 Oct 2015	2	2	2	2	2	2	3	3
05 Oct 2015	2	2	2	2	2	2	3	3
06 Oct 2015	2	2	2	2	2	2	3	3
07 Oct 2015	2	2	2	2	2	2	3	3
08 Oct 2015	2	2	2	2	2	2	3	3
09 Oct 2015	2	2	2	2	2	2	3	3
10 Oct 2015	2	2	2	2	2	2	2	2
11 Oct 2015	2	2	2	2	2	2	2	2
12 Oct 2015	2	2	2	2	2	2	2	2
13 Oct 2015	2	2	2	2	2	2	2	2
14 Oct 2015	2	2	2	2	2	2	2	2
15 Oct 2015	2	2	2	2	2	2	2	2
16 Oct 2015	2	2	2	2	2	2	2	2
17 Oct 2015	2	2	2	2	2	2	2	2
18 Oct 2015	2	2	2	2	2	2	2	2
19 Oct 2015	2	2	2	2	2	2	2	2
20 Oct 2015	2	2	2	2	2	2	2	2
21 Oct 2015	2*	2*	2*	2*	2*	2*	2*	2*
22 Oct 2015	2*	2*	2*	2*	2*	2*	2*	2*
23 Oct 2015	2*	2*	2*	2*	2*	2*	2*	2*
24 Oct 2015	2	3	3	2	2	2	2	2
25 Oct 2015	2	3	3	2	2	2	2	2
26 Oct 2015	2	3	3	2	2	2	2	2
27 Oct 2015	2	3	3	2	2	2	2	2
28 Oct 2015	2	3	3	2	2	2	2	2
29 Oct 2015	2	3	3	2	2	2	2	2
30 Oct 2015	2	3	3	2	2	2	2	2
31 Oct 2015	3*	3*	3*	2*	2*	2*	2*	2*

* 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
01 Oct 2015	IC							
07 Oct 2015	IC							
13 Oct 2015	IC							
24 Oct 2015	IC							
26 Oct 2015	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
01 Oct 2015	IC							
07 Oct 2015	IC							
13 Oct 2015	IC							
24 Oct 2015	IC							
26 Oct 2015	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
01 Oct 2015	IC							
07 Oct 2015	IC							
13 Oct 2015	IC							
24 Oct 2015	IC							
26 Oct 2015	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
01 Oct 2015	IC							
07 Oct 2015	IC							
13 Oct 2015	IC							
24 Oct 2015	IC							
26 Oct 2015	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	01 Oct 2015	858	1	<2	<2	<2	1.00	ns	21.0	90.22	7.4	33.37	8.2
A1	01 Oct 2015	858	12	<2	<2	<2	1.00	ns	16.2	91.75	7.7	33.27	8.2
A1	01 Oct 2015	858	18	<2	<2	<2	1.00	ns	15.7	90.00	7.1	33.32	8.1
A1	07 Oct 2015	749	1	<20	<2	<2	0.10	ns	21.8	90.56	6.9	33.42	8.1
A1	07 Oct 2015	749	12	<2	<2	<2	1.00	ns	19.6	90.02	6.5	33.31	8.1
A1	07 Oct 2015	749	18	<2	<2	<2	1.00	ns	18.4	91.00	7.1	33.32	8.1
A1	13 Oct 2015	746	1	2e	<2	<2	1.00	ns	21.4	88.82	7.3	33.36	8.2
A1	13 Oct 2015	746	12	2e	<2	<2	1.00	ns	20.4	88.69	6.7	33.35	8.1
A1	13 Oct 2015	746	18	2e	<2	2e	1.00	ns	18.2	87.19	7.0	33.38	8.1
A1	24 Oct 2015	741	1	<2	<2	8e	1.00	ns	21.1	88.80	6.5	33.45	8.1
A1	24 Oct 2015	741	12	<2	<2	2e	1.00	ns	20.3	91.52	6.9	33.41	8.1
A1	24 Oct 2015	741	18	2e	<2	2e	1.00	ns	18.1	90.01	6.6	33.39	8.1
A1	26 Oct 2015	819	1	4e	<2	2e	0.50	ns	21.4	90.88	6.7	33.47	8.1
A1	26 Oct 2015	819	12	2e	<2	4e	1.00	ns	19.3	88.81	6.5	33.41	8.1
A1	26 Oct 2015	819	18	2e	<2	<2	1.00	ns	18.8	88.26	6.3	33.41	8.1
C4	01 Oct 2015	1123	1	<2	<2	<2	1.00	ns	21.8	90.84	6.9	33.36	8.2
C4	01 Oct 2015	1123	3	<2	<2	<2	1.00	ns	21.2	90.63	6.8	33.36	8.2
C4	01 Oct 2015	1123	9	<2	<2	<2	1.00	ns	19.0	85.72	5.1	33.32	8.0
C4	07 Oct 2015	945	1	<2	<2	<2	1.00	ns	21.4	86.23	6.7	33.39	8.1
C4	07 Oct 2015	945	3	<2	<2	<2	1.00	ns	21.4	86.19	6.7	33.39	8.1
C4	07 Oct 2015	945	9	2e	<2	<2	1.00	ns	21.4	86.14	6.5	33.38	8.1
C4	13 Oct 2015	937	1	2e	<2	<2	1.00	ns	21.5	81.89	6.9	33.37	8.1
C4	13 Oct 2015	937	3	<20	<2	<2	0.10	ns	21.3	80.99	6.8	33.35	8.1
C4	13 Oct 2015	937	9	<20	<2	<2	0.10	ns	21.1	73.56	5.8	33.36	8.1
C4	24 Oct 2015	935	1	4e	<2	<2	0.50	ns	21.5	76.33	5.3	33.48	8.0
C4	24 Oct 2015	935	3	<2	<2	<2	1.00	ns	21.4	74.93	5.4	33.48	8.0
C4	24 Oct 2015	935	9	<2	<2	<2	1.00	ns	20.1	78.86	5.2	33.43	8.0
C4	26 Oct 2015	1052	1	<2	<2	<2	1.00	ns	21.8	85.09	6.2	33.48	8.1
C4	26 Oct 2015	1052	3	<2	<2	<2	1.00	ns	21.6	81.42	6.3	33.47	8.1
C4	26 Oct 2015	1052	9	<20	<2	<2	0.10	ns	20.5	59.77	4.6	33.44	7.9
C5	01 Oct 2015	1110	1	<2	<2	<2	1.00	ns	21.5	90.05	6.8	33.40	8.2
C5	01 Oct 2015	1110	3	<2	<2	<2	1.00	ns	21.2	90.52	7.0	33.42	8.2
C5	01 Oct 2015	1110	9	<20	<2	<2	0.10	ns	18.6	85.95	7.0	33.35	8.1
C5	07 Oct 2015	932	1	<2	<2	<2	1.00	ns	21.7	90.74	6.8	33.41	8.1
C5	07 Oct 2015	932	3	<2	<2	<2	1.00	ns	21.7	90.27	6.8	33.40	8.1

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	N-NH3	Temp	XMS	DO	Sal	pH
C5	07 Oct 2015	932	9	<2	<2	<2	1.00	ns	21.1	90.38	6.7	33.38	8.1
C5	13 Oct 2015	925	1	<20	<2	<2	0.10	ns	21.9	54.51	5.9	33.38	8.0
C5	13 Oct 2015	925	3	20e	<2	<2	0.10	ns	21.2	52.16	6.0	33.36	8.0
C5	13 Oct 2015	925	9	6e	<2	2e	0.33	ns	20.1	80.96	5.7	33.36	8.0
C5	24 Oct 2015	924	1	20e	<2	6e	0.10	ns	21.9	53.23	6.0	33.47	8.0
C5	24 Oct 2015	924	3	<20	<2	<2	0.10	ns	21.8	55.73	6.2	33.47	8.0
C5	24 Oct 2015	924	9	<20	<2	<2	0.10	ns	19.6	47.40	5.9	33.40	8.0
C5	26 Oct 2015	1018	1	<20	2e	<2	0.10	ns	21.9	55.25	6.0	33.47	8.0
C5	26 Oct 2015	1018	3	<20	<2	<2	0.10	ns	21.8	54.74	6.2	33.46	8.0
C5	26 Oct 2015	1018	9	20e	<2	<2	0.10	ns	20.8	43.51	5.2	33.43	8.0
A6	01 Oct 2015	936	1	2e	<2	<2	1.00	ns	21.7	86.70	7.0	33.34	8.2
A6	01 Oct 2015	936	12	100	8e	2e	0.08	ns	15.9	91.84	7.5	33.28	8.2
A6	01 Oct 2015	936	18	260e	8e	2e	0.03	ns	15.5	90.56	7.0	33.33	8.1
A6	07 Oct 2015	826	1	<2	<2	<2	1.00	ns	21.7	92.78	6.5	33.37	8.1
A6	07 Oct 2015	826	12	<2	<2	<2	1.00	ns	19.7	92.48	7.1	33.34	8.1
A6	07 Oct 2015	826	18	<2	<2	<2	1.00	ns	18.6	92.30	7.0	33.32	8.1
A6	13 Oct 2015	821	1	<2	<2	6e	1.00	ns	21.6	90.50	7.2	33.37	8.2
A6	13 Oct 2015	821	12	<2	<2	<2	1.00	ns	21.3	89.73	7.0	33.36	8.2
A6	13 Oct 2015	821	18	<2	<2	4e	1.00	ns	18.7	89.76	7.1	33.37	8.1
A6	24 Oct 2015	819	1	<2	<2	10e	1.00	ns	21.8	88.95	6.5	33.47	8.1
A6	24 Oct 2015	819	12	<2	<2	<2	1.00	ns	19.3	90.17	6.8	33.39	8.1
A6	24 Oct 2015	819	18	2e	<2	2e	1.00	ns	18.4	90.52	6.7	33.40	8.1
A6	26 Oct 2015	852	1	<20	<2	<2	0.10	ns	21.8	87.47	6.7	33.48	8.1
A6	26 Oct 2015	852	12	<2	<2	2e	1.00	ns	20.7	89.55	6.1	33.44	8.1
A6	26 Oct 2015	852	18	2e	<2	6e	1.00	ns	18.0	88.43	6.1	33.40	8.0
C6	01 Oct 2015	1056	1	<20	<2	<2	0.10	ns	21.8	81.69	6.9	33.34	8.2
C6	01 Oct 2015	1056	3	<2	<2	<2	1.00	ns	20.3	87.12	6.7	33.35	8.2
C6	01 Oct 2015	1056	9	<20	<2	<2	0.10	ns	19.2	66.86	5.9	33.34	8.1
C6	07 Oct 2015	914	1	<2	<2	<2	1.00	ns	21.5	88.46	6.6	33.38	8.1
C6	07 Oct 2015	914	3	<2	<2	<2	1.00	ns	21.5	88.24	6.7	33.38	8.1
C6	07 Oct 2015	914	9	<2	<2	<2	1.00	ns	21.1	88.56	5.8	33.37	8.1
C6	13 Oct 2015	912	1	<20	<2	<2	0.10	ns	21.8	76.43	6.5	33.38	8.1
C6	13 Oct 2015	912	3	<2	<2	<2	1.00	ns	21.7	76.85	6.2	33.38	8.1
C6	13 Oct 2015	912	9	<20	<2	<2	0.10	ns	20.6	60.98	4.7	33.36	7.9
C6	24 Oct 2015	913	1	<2	<2	<2	1.00	ns	21.8	70.44	5.5	33.43	8.1
C6	24 Oct 2015	913	3	<2	2e	<2	1.00	ns	21.8	69.53	6.1	33.45	8.1
C6	24 Oct 2015	913	9	<2	<2	<2	1.00	ns	19.8	72.80	6.0	33.44	8.1
C6	26 Oct 2015	1002	1	20e	<2	<2	0.10	ns	21.9	72.02	6.1	33.48	8.1
C6	26 Oct 2015	1002	3	<2	<2	<2	1.00	ns	21.8	70.42	6.2	33.48	8.1
C6	26 Oct 2015	1002	9	<2	<2	<2	1.00	ns	21.5	69.73	5.4	33.47	8.0
A7	01 Oct 2015	914	1	4e	<2	<2	0.50	ns	21.3	91.40	7.2	33.38	8.2

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	N-NH3	Temp	XMS	DO	Sal	pH
A7	01 Oct 2015	914	12	2e	<2	<2	1.00	ns	18.8	90.87	7.3	33.35	8.2
A7	01 Oct 2015	914	18	36e	2e	<2	0.06	ns	15.6	90.45	7.1	33.34	8.1
A7	07 Oct 2015	816	1	<2	<2	<2	1.00	ns	21.7	92.74	7.0	33.42	8.1
A7	07 Oct 2015	816	12	<2	<2	<2	1.00	ns	19.4	91.71	7.0	33.32	8.1
A7	07 Oct 2015	816	18	<2	<2	<2	1.00	ns	18.9	91.90	6.8	33.32	8.1
A7	13 Oct 2015	802	1	<2	<2	6e	1.00	ns	21.5	90.84	7.3	33.37	8.2
A7	13 Oct 2015	802	12	2e	<2	4e	1.00	ns	20.9	90.47	7.0	33.35	8.1
A7	13 Oct 2015	802	18	60e	<2	2e	0.03	ns	18.7	89.32	7.0	33.34	8.1
A7	24 Oct 2015	802	1	2e	<2	10e	1.00	ns	21.6	87.32	6.4	33.47	8.1
A7	24 Oct 2015	802	12	<2	<2	4e	1.00	ns	19.8	90.57	6.7	33.39	8.1
A7	24 Oct 2015	802	18	<2	<2	<2	1.00	ns	18.7	90.64	6.7	33.38	8.1
A7	26 Oct 2015	835	1	<2	<2	<2	1.00	ns	22.1	92.13	6.7	33.50	8.1
A7	26 Oct 2015	835	12	2e	<2	<2	1.00	ns	19.6	89.35	6.4	33.39	8.1
A7	26 Oct 2015	835	18	<2	<2	<2	1.00	ns	18.7	87.65	6.1	33.40	8.0
C7	01 Oct 2015	955	1	<2	<2	<2	1.00	ns	21.8	91.36	7.2	33.37	8.2
C7	01 Oct 2015	955	12	4e	<2	<2	0.50	ns	17.9	91.59	6.9	33.31	8.1
C7	01 Oct 2015	955	18	8e	<2	<2	0.25	ns	16.7	91.92	7.4	33.27	8.2
C7	07 Oct 2015	842	1	<2	<2	<2	1.00	ns	21.6	91.26	6.9	33.38	8.1
C7	07 Oct 2015	842	12	<2	<2	<2	1.00	ns	19.8	91.76	7.1	33.32	8.1
C7	07 Oct 2015	842	18	<2	<2	<2	1.00	ns	18.3	91.85	6.6	33.30	8.1
C7	13 Oct 2015	838	1	<2	<2	<2	1.00	ns	21.8	89.14	7.3	33.37	8.2
C7	13 Oct 2015	838	12	<2	<2	<2	1.00	ns	19.6	89.43	6.7	33.35	8.1
C7	13 Oct 2015	838	18	4e	<2	2e	0.50	ns	18.7	88.64	7.1	33.37	8.1
C7	24 Oct 2015	840	1	<2	<2	8e	1.00	ns	22.0	92.55	6.7	33.48	8.1
C7	24 Oct 2015	840	12	<2	<2	<2	1.00	ns	19.3	91.37	6.8	33.39	8.1
C7	24 Oct 2015	840	18	<2	<2	<2	1.00	ns	18.4	88.82	6.7	33.39	8.1
C7	26 Oct 2015	923	1	<2	<2	<2	1.00	ns	22.4	93.23	6.9	33.52	8.2
C7	26 Oct 2015	923	12	<2	<2	<2	1.00	ns	20.1	91.71	7.1	33.41	8.1
C7	26 Oct 2015	923	18	12e	<2	<2	0.17	ns	17.9	90.97	6.3	33.37	8.1
C8	01 Oct 2015	1015	1	<2	<2	<2	1.00	ns	21.7	89.67	7.0	33.36	8.2
C8	01 Oct 2015	1015	12	2e	<2	<2	1.00	ns	17.9	90.82	7.1	33.31	8.2
C8	01 Oct 2015	1015	18	<2	<2	<2	1.00	ns	17.1	89.79	6.8	33.31	8.1
C8	07 Oct 2015	855	1	4e	<2	2e	0.50	ns	21.8	90.42	6.9	33.35	8.1
C8	07 Oct 2015	855	12	<2	<2	<2	1.00	ns	19.5	91.05	6.8	33.31	8.1
C8	07 Oct 2015	855	18	<2	<2	<2	1.00	ns	18.2	90.91	7.2	33.29	8.1
C8	13 Oct 2015	851	1	<20	<2	8e	0.10	ns	21.7	90.37	7.4	33.37	8.2
C8	13 Oct 2015	851	12	2e	<2	2e	1.00	ns	19.7	88.26	5.5	33.34	8.0
C8	13 Oct 2015	851	18	<2	<2	<2	1.00	ns	18.6	87.67	7.0	33.36	8.1
C8	24 Oct 2015	854	1	<2	<2	<2	1.00	ns	21.9	89.73	6.8	33.47	8.1
C8	24 Oct 2015	854	12	<2	<2	<2	1.00	ns	19.4	91.80	7.0	33.39	8.1
C8	24 Oct 2015	854	18	<2	<2	2e	1.00	ns	18.7	89.76	7.0	33.39	8.1

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	N-NH3	Temp	XMS	DO	Sal	pH
C8	26 Oct 2015	938	1	<2	<2	<2	1.00	ns	22.3	92.53	6.8	33.52	8.2
C8	26 Oct 2015	938	12	<2	<2	<2	1.00	ns	19.9	89.99	6.6	33.40	8.1
C8	26 Oct 2015	938	18	<2	<2	<2	1.00	ns	17.7	89.14	6.5	33.39	8.1

NA = not available

ns = not sampled

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	01 Oct 2015	Depth (m)	18
A1	01 Oct 2015	Arrive Time	858
A1	01 Oct 2015	Depart Time	907
A1	01 Oct 2015	Air Temp (C)	22
A1	01 Oct 2015	Weather	Partly Cloudy
A1	01 Oct 2015	Visibility (mi)	8
A1	01 Oct 2015	Wind Speed (kts)	0
A1	01 Oct 2015	Wind Dir	
A1	01 Oct 2015	Water Color	Greenish-Blue
A1	01 Oct 2015	Wave Ht Low (ft)	3
A1	01 Oct 2015	Wave Period (sec)	9
A1	01 Oct 2015	Sea State	Calm
A1	01 Oct 2015	High Tide (ft)	5.93
A1	01 Oct 2015	High Tide Time	1143
A1	01 Oct 2015	Low Tide (ft)	1.3
A1	01 Oct 2015	Low Tide Time	534
A1	01 Oct 2015	Comments	Kelp; Lobster floats
A1	07 Oct 2015	Depth (m)	18
A1	07 Oct 2015	Arrive Time	749
A1	07 Oct 2015	Depart Time	808
A1	07 Oct 2015	Air Temp (C)	20
A1	07 Oct 2015	Weather	Haze
A1	07 Oct 2015	Visibility (mi)	4
A1	07 Oct 2015	Wind Speed (kts)	1
A1	07 Oct 2015	Wind Dir	SE
A1	07 Oct 2015	Water Color	Greenish-Blue
A1	07 Oct 2015	Wave Ht Low (ft)	2
A1	07 Oct 2015	Wave Period (sec)	7
A1	07 Oct 2015	Sea State	Calm
A1	07 Oct 2015	High Tide (ft)	4.5
A1	07 Oct 2015	High Tide Time	711
A1	07 Oct 2015	Low Tide (ft)	1.9
A1	07 Oct 2015	Low Tide Time	1255
A1	07 Oct 2015	Comments	Kelp; Lobster floats
A1	13 Oct 2015	Depth (m)	19
A1	13 Oct 2015	Arrive Time	746
A1	13 Oct 2015	Depart Time	755
A1	13 Oct 2015	Air Temp (C)	23
A1	13 Oct 2015	Weather	Partly Cloudy
A1	13 Oct 2015	Visibility (mi)	5
A1	13 Oct 2015	Wind Speed (kts)	3
A1	13 Oct 2015	Wind Dir	N
A1	13 Oct 2015	Water Color	Green
A1	13 Oct 2015	Wave Ht Low (ft)	2
A1	13 Oct 2015	Wave Period (sec)	9
A1	13 Oct 2015	Sea State	Calm
A1	13 Oct 2015	High Tide (ft)	5.5
A1	13 Oct 2015	High Tide Time	935
A1	13 Oct 2015	Low Tide (ft)	0.32

Station	Date	Parameter	Value
A1	13 Oct 2015	Low Tide Time	1612
A1	13 Oct 2015	Comments	Lobster buoys; Kelp
A1	24 Oct 2015	Depth (m)	19
A1	24 Oct 2015	Arrive Time	741
A1	24 Oct 2015	Depart Time	748
A1	24 Oct 2015	Air Temp (C)	21
A1	24 Oct 2015	Weather	Clear
A1	24 Oct 2015	Visibility (mi)	10
A1	24 Oct 2015	Wind Speed (kts)	2
A1	24 Oct 2015	Wind Dir	W
A1	24 Oct 2015	Water Color	Greenish-Blue
A1	24 Oct 2015	Wave Ht Low (ft)	4
A1	24 Oct 2015	Wave Period (sec)	13
A1	24 Oct 2015	Sea State	Calm
A1	24 Oct 2015	High Tide (ft)	5.51
A1	24 Oct 2015	High Tide Time	719
A1	24 Oct 2015	Low Tide (ft)	0.56
A1	24 Oct 2015	Low Tide Time	1337
A1	24 Oct 2015	Comments	Lobster floats; Kelp
A1	26 Oct 2015	Depth (m)	19
A1	26 Oct 2015	Arrive Time	819
A1	26 Oct 2015	Depart Time	827
A1	26 Oct 2015	Air Temp (C)	21
A1	26 Oct 2015	Weather	Partly Cloudy
A1	26 Oct 2015	Visibility (mi)	6
A1	26 Oct 2015	Wind Speed (kts)	5
A1	26 Oct 2015	Wind Dir	S
A1	26 Oct 2015	Water Color	Brownish-Green
A1	26 Oct 2015	Wave Ht Low (ft)	2
A1	26 Oct 2015	Wave Period (sec)	4
A1	26 Oct 2015	Sea State	Calm
A1	26 Oct 2015	High Tide (ft)	6.42
A1	26 Oct 2015	High Tide Time	832
A1	26 Oct 2015	Low Tide (ft)	-0.61
A1	26 Oct 2015	Low Tide Time	1509
A1	26 Oct 2015	Comments	Kelp; Lobster floats
C4	01 Oct 2015	Depth (m)	9
C4	01 Oct 2015	Arrive Time	1123
C4	01 Oct 2015	Depart Time	1129
C4	01 Oct 2015	Air Temp (C)	23
C4	01 Oct 2015	Weather	Partly Cloudy
C4	01 Oct 2015	Visibility (mi)	10
C4	01 Oct 2015	Wind Speed (kts)	6
C4	01 Oct 2015	Wind Dir	W
C4	01 Oct 2015	Water Color	Greenish-Brown
C4	01 Oct 2015	Wave Ht Low (ft)	3
C4	01 Oct 2015	Wave Period (sec)	9
C4	01 Oct 2015	Sea State	Calm
C4	01 Oct 2015	High Tide (ft)	5.93
C4	01 Oct 2015	High Tide Time	1143
C4	01 Oct 2015	Low Tide (ft)	1.3
C4	01 Oct 2015	Low Tide Time	534

Station	Date	Parameter	Value
C4	01 Oct 2015	Comments	Kelp
C4	07 Oct 2015	Depth (m)	9
C4	07 Oct 2015	Arrive Time	945
C4	07 Oct 2015	Depart Time	953
C4	07 Oct 2015	Air Temp (C)	20
C4	07 Oct 2015	Weather	Haze
C4	07 Oct 2015	Visibility (mi)	8
C4	07 Oct 2015	Wind Speed (kts)	3
C4	07 Oct 2015	Wind Dir	S
C4	07 Oct 2015	Water Color	Green
C4	07 Oct 2015	Wave Ht Low (ft)	2
C4	07 Oct 2015	Wave Period (sec)	7
C4	07 Oct 2015	Sea State	Calm
C4	07 Oct 2015	High Tide (ft)	4.5
C4	07 Oct 2015	High Tide Time	711
C4	07 Oct 2015	Low Tide (ft)	1.9
C4	07 Oct 2015	Low Tide Time	1255
C4	07 Oct 2015	Comments	Kelp; Lobster floats
C4	13 Oct 2015	Depth (m)	11
C4	13 Oct 2015	Arrive Time	937
C4	13 Oct 2015	Depart Time	941
C4	13 Oct 2015	Air Temp (C)	24
C4	13 Oct 2015	Weather	Partly Cloudy
C4	13 Oct 2015	Visibility (mi)	5
C4	13 Oct 2015	Wind Speed (kts)	2
C4	13 Oct 2015	Wind Dir	E
C4	13 Oct 2015	Water Color	Green
C4	13 Oct 2015	Wave Ht Low (ft)	2
C4	13 Oct 2015	Wave Period (sec)	9
C4	13 Oct 2015	Sea State	Calm
C4	13 Oct 2015	High Tide (ft)	5.5
C4	13 Oct 2015	High Tide Time	935
C4	13 Oct 2015	Low Tide (ft)	0.32
C4	13 Oct 2015	Low Tide Time	1612
C4	13 Oct 2015	Comments	Lobster buoys; Kelp debris
C4	24 Oct 2015	Depth (m)	11
C4	24 Oct 2015	Arrive Time	935
C4	24 Oct 2015	Depart Time	939
C4	24 Oct 2015	Air Temp (C)	22
C4	24 Oct 2015	Weather	Clear
C4	24 Oct 2015	Visibility (mi)	12
C4	24 Oct 2015	Wind Speed (kts)	3
C4	24 Oct 2015	Wind Dir	SW
C4	24 Oct 2015	Water Color	Green
C4	24 Oct 2015	Wave Ht Low (ft)	4
C4	24 Oct 2015	Wave Period (sec)	13
C4	24 Oct 2015	Sea State	Calm
C4	24 Oct 2015	High Tide (ft)	5.51
C4	24 Oct 2015	High Tide Time	719
C4	24 Oct 2015	Low Tide (ft)	0.56
C4	24 Oct 2015	Low Tide Time	1337
C4	24 Oct 2015	Comments	Kelp debris

Station	Date	Parameter	Value
C4	26 Oct 2015	Depth (m)	10
C4	26 Oct 2015	Arrive Time	1052
C4	26 Oct 2015	Depart Time	1101
C4	26 Oct 2015	Air Temp (C)	21
C4	26 Oct 2015	Weather	Partly Cloudy
C4	26 Oct 2015	Visibility (mi)	8
C4	26 Oct 2015	Wind Speed (kts)	3
C4	26 Oct 2015	Wind Dir	W
C4	26 Oct 2015	Water Color	Green
C4	26 Oct 2015	Wave Ht Low (ft)	3
C4	26 Oct 2015	Wave Period (sec)	13
C4	26 Oct 2015	Sea State	Calm
C4	26 Oct 2015	High Tide (ft)	6.42
C4	26 Oct 2015	High Tide Time	832
C4	26 Oct 2015	Low Tide (ft)	-0.61
C4	26 Oct 2015	Low Tide Time	1509
C4	26 Oct 2015	Comments	Kelp; Lobster floats
C5	01 Oct 2015	Depth (m)	9
C5	01 Oct 2015	Arrive Time	1110
C5	01 Oct 2015	Depart Time	1116
C5	01 Oct 2015	Air Temp (C)	23
C5	01 Oct 2015	Weather	Partly Cloudy
C5	01 Oct 2015	Visibility (mi)	10
C5	01 Oct 2015	Wind Speed (kts)	3
C5	01 Oct 2015	Wind Dir	S
C5	01 Oct 2015	Water Color	Greenish-Brown
C5	01 Oct 2015	Wave Ht Low (ft)	3
C5	01 Oct 2015	Wave Period (sec)	9
C5	01 Oct 2015	Sea State	Calm
C5	01 Oct 2015	High Tide (ft)	5.93
C5	01 Oct 2015	High Tide Time	1143
C5	01 Oct 2015	Low Tide (ft)	1.3
C5	01 Oct 2015	Low Tide Time	534
C5	01 Oct 2015	Comments	Kelp
C5	07 Oct 2015	Depth (m)	9
C5	07 Oct 2015	Arrive Time	932
C5	07 Oct 2015	Depart Time	938
C5	07 Oct 2015	Air Temp (C)	21
C5	07 Oct 2015	Weather	Haze
C5	07 Oct 2015	Visibility (mi)	8
C5	07 Oct 2015	Wind Speed (kts)	3
C5	07 Oct 2015	Wind Dir	E
C5	07 Oct 2015	Water Color	Green
C5	07 Oct 2015	Wave Ht Low (ft)	2
C5	07 Oct 2015	Wave Period (sec)	7
C5	07 Oct 2015	Sea State	Calm
C5	07 Oct 2015	High Tide (ft)	4.5
C5	07 Oct 2015	High Tide Time	711
C5	07 Oct 2015	Low Tide (ft)	1.9
C5	07 Oct 2015	Low Tide Time	1255
C5	07 Oct 2015	Comments	Kelp; Lobster floats

Station	Date	Parameter	Value
C5	13 Oct 2015	Depth (m)	12
C5	13 Oct 2015	Arrive Time	925
C5	13 Oct 2015	Depart Time	931
C5	13 Oct 2015	Air Temp (C)	23
C5	13 Oct 2015	Weather	Partly Cloudy
C5	13 Oct 2015	Visibility (mi)	5
C5	13 Oct 2015	Wind Speed (kts)	3
C5	13 Oct 2015	Wind Dir	SE
C5	13 Oct 2015	Water Color	Green
C5	13 Oct 2015	Wave Ht Low (ft)	2
C5	13 Oct 2015	Wave Period (sec)	9
C5	13 Oct 2015	Sea State	Calm
C5	13 Oct 2015	High Tide (ft)	5.5
C5	13 Oct 2015	High Tide Time	935
C5	13 Oct 2015	Low Tide (ft)	0.32
C5	13 Oct 2015	Low Tide Time	1612
C5	13 Oct 2015	Comments	Lobster buoys; Kelp debris
C5	24 Oct 2015	Depth (m)	10
C5	24 Oct 2015	Arrive Time	924
C5	24 Oct 2015	Depart Time	928
C5	24 Oct 2015	Air Temp (C)	22
C5	24 Oct 2015	Weather	Clear
C5	24 Oct 2015	Visibility (mi)	12
C5	24 Oct 2015	Wind Speed (kts)	4
C5	24 Oct 2015	Wind Dir	S
C5	24 Oct 2015	Water Color	Green
C5	24 Oct 2015	Wave Ht Low (ft)	4
C5	24 Oct 2015	Wave Period (sec)	13
C5	24 Oct 2015	Sea State	Calm
C5	24 Oct 2015	High Tide (ft)	5.51
C5	24 Oct 2015	High Tide Time	719
C5	24 Oct 2015	Low Tide (ft)	0.56
C5	24 Oct 2015	Low Tide Time	1337
C5	24 Oct 2015	Comments	Lobster floats; Kelp debris
C5	26 Oct 2015	Depth (m)	9
C5	26 Oct 2015	Arrive Time	1018
C5	26 Oct 2015	Depart Time	1043
C5	26 Oct 2015	Air Temp (C)	21
C5	26 Oct 2015	Weather	Partly Cloudy
C5	26 Oct 2015	Visibility (mi)	8
C5	26 Oct 2015	Wind Speed (kts)	3
C5	26 Oct 2015	Wind Dir	SW
C5	26 Oct 2015	Water Color	Green
C5	26 Oct 2015	Wave Ht Low (ft)	3
C5	26 Oct 2015	Wave Period (sec)	13
C5	26 Oct 2015	Sea State	Calm
C5	26 Oct 2015	High Tide (ft)	6.42
C5	26 Oct 2015	High Tide Time	832
C5	26 Oct 2015	Low Tide (ft)	-0.61
C5	26 Oct 2015	Low Tide Time	1509
C5	26 Oct 2015	Comments	Kelp; Lobster floats
A6	01 Oct 2015	Depth (m)	18

Station	Date	Parameter	Value
A6	01 Oct 2015	Arrive Time	936
A6	01 Oct 2015	Depart Time	945
A6	01 Oct 2015	Air Temp (C)	22
A6	01 Oct 2015	Weather	Partly Cloudy
A6	01 Oct 2015	Visibility (mi)	8
A6	01 Oct 2015	Wind Speed (kts)	2
A6	01 Oct 2015	Wind Dir	S
A6	01 Oct 2015	Water Color	Greenish-Brown
A6	01 Oct 2015	Wave Ht Low (ft)	3
A6	01 Oct 2015	Wave Period (sec)	9
A6	01 Oct 2015	Sea State	Calm
A6	01 Oct 2015	High Tide (ft)	5.93
A6	01 Oct 2015	High Tide Time	1143
A6	01 Oct 2015	Low Tide (ft)	1.3
A6	01 Oct 2015	Low Tide Time	534
A6	01 Oct 2015	Comments	Kelp
A6	07 Oct 2015	Depth (m)	18
A6	07 Oct 2015	Arrive Time	826
A6	07 Oct 2015	Depart Time	836
A6	07 Oct 2015	Air Temp (C)	21
A6	07 Oct 2015	Weather	Haze
A6	07 Oct 2015	Visibility (mi)	4
A6	07 Oct 2015	Wind Speed (kts)	2
A6	07 Oct 2015	Wind Dir	SE
A6	07 Oct 2015	Water Color	Greenish-Blue
A6	07 Oct 2015	Wave Ht Low (ft)	2
A6	07 Oct 2015	Wave Period (sec)	7
A6	07 Oct 2015	Sea State	Calm
A6	07 Oct 2015	High Tide (ft)	4.5
A6	07 Oct 2015	High Tide Time	711
A6	07 Oct 2015	Low Tide (ft)	1.9
A6	07 Oct 2015	Low Tide Time	1255
A6	07 Oct 2015	Comments	Kelp; Boats
A6	13 Oct 2015	Depth (m)	18
A6	13 Oct 2015	Arrive Time	821
A6	13 Oct 2015	Depart Time	828
A6	13 Oct 2015	Air Temp (C)	25
A6	13 Oct 2015	Weather	Partly Cloudy
A6	13 Oct 2015	Visibility (mi)	5
A6	13 Oct 2015	Wind Speed (kts)	3
A6	13 Oct 2015	Wind Dir	E
A6	13 Oct 2015	Water Color	Brownish-Green
A6	13 Oct 2015	Wave Ht Low (ft)	2
A6	13 Oct 2015	Wave Period (sec)	9
A6	13 Oct 2015	Sea State	Calm
A6	13 Oct 2015	High Tide (ft)	5.5
A6	13 Oct 2015	High Tide Time	935
A6	13 Oct 2015	Low Tide (ft)	0.32
A6	13 Oct 2015	Low Tide Time	1612
A6	13 Oct 2015	Comments	Lobster buoys; Kelp
A6	24 Oct 2015	Depth (m)	14
A6	24 Oct 2015	Arrive Time	819

Station	Date	Parameter	Value
A6	24 Oct 2015	Depart Time	829
A6	24 Oct 2015	Air Temp (C)	22
A6	24 Oct 2015	Weather	Clear
A6	24 Oct 2015	Visibility (mi)	10
A6	24 Oct 2015	Wind Speed (kts)	0
A6	24 Oct 2015	Wind Dir	
A6	24 Oct 2015	Water Color	Greenish-Blue
A6	24 Oct 2015	Wave Ht Low (ft)	4
A6	24 Oct 2015	Wave Period (sec)	13
A6	24 Oct 2015	Sea State	Calm
A6	24 Oct 2015	High Tide (ft)	5.51
A6	24 Oct 2015	High Tide Time	719
A6	24 Oct 2015	Low Tide (ft)	0.56
A6	24 Oct 2015	Low Tide Time	1337
A6	24 Oct 2015	Comments	Lobster floats; Kelp
A6	26 Oct 2015	Depth (m)	19
A6	26 Oct 2015	Arrive Time	852
A6	26 Oct 2015	Depart Time	911
A6	26 Oct 2015	Air Temp (C)	22
A6	26 Oct 2015	Weather	Partly Cloudy
A6	26 Oct 2015	Visibility (mi)	8
A6	26 Oct 2015	Wind Speed (kts)	0
A6	26 Oct 2015	Wind Dir	
A6	26 Oct 2015	Water Color	Bluish-Green
A6	26 Oct 2015	Wave Ht Low (ft)	3
A6	26 Oct 2015	Wave Period (sec)	13
A6	26 Oct 2015	Sea State	Calm
A6	26 Oct 2015	High Tide (ft)	6.42
A6	26 Oct 2015	High Tide Time	832
A6	26 Oct 2015	Low Tide (ft)	-0.61
A6	26 Oct 2015	Low Tide Time	1509
A6	26 Oct 2015	Comments	Kelp; Lobster floats
C6	01 Oct 2015	Depth (m)	9
C6	01 Oct 2015	Arrive Time	1056
C6	01 Oct 2015	Depart Time	1103
C6	01 Oct 2015	Air Temp (C)	23
C6	01 Oct 2015	Weather	Partly Cloudy
C6	01 Oct 2015	Visibility (mi)	10
C6	01 Oct 2015	Wind Speed (kts)	1
C6	01 Oct 2015	Wind Dir	N
C6	01 Oct 2015	Water Color	Greenish-Brown
C6	01 Oct 2015	Wave Ht Low (ft)	3
C6	01 Oct 2015	Wave Period (sec)	9
C6	01 Oct 2015	Sea State	Calm
C6	01 Oct 2015	High Tide (ft)	5.93
C6	01 Oct 2015	High Tide Time	1143
C6	01 Oct 2015	Low Tide (ft)	1.3
C6	01 Oct 2015	Low Tide Time	534
C6	01 Oct 2015	Comments	Kelp
C6	07 Oct 2015	Depth (m)	9
C6	07 Oct 2015	Arrive Time	914
C6	07 Oct 2015	Depart Time	925

Station	Date	Parameter	Value
C6	07 Oct 2015	Air Temp (C)	21
C6	07 Oct 2015	Weather	Haze
C6	07 Oct 2015	Visibility (mi)	4
C6	07 Oct 2015	Wind Speed (kts)	2
C6	07 Oct 2015	Wind Dir	NW
C6	07 Oct 2015	Water Color	Green
C6	07 Oct 2015	Wave Ht Low (ft)	2
C6	07 Oct 2015	Wave Period (sec)	7
C6	07 Oct 2015	Sea State	Calm
C6	07 Oct 2015	High Tide (ft)	4.5
C6	07 Oct 2015	High Tide Time	711
C6	07 Oct 2015	Low Tide (ft)	1.9
C6	07 Oct 2015	Low Tide Time	1255
C6	07 Oct 2015	Comments	Kelp; Lobster floats
C6	13 Oct 2015	Depth (m)	10
C6	13 Oct 2015	Arrive Time	912
C6	13 Oct 2015	Depart Time	918
C6	13 Oct 2015	Air Temp (C)	24
C6	13 Oct 2015	Weather	Partly Cloudy
C6	13 Oct 2015	Visibility (mi)	5
C6	13 Oct 2015	Wind Speed (kts)	2
C6	13 Oct 2015	Wind Dir	NE
C6	13 Oct 2015	Water Color	Green
C6	13 Oct 2015	Wave Ht Low (ft)	2
C6	13 Oct 2015	Wave Period (sec)	9
C6	13 Oct 2015	Sea State	Calm
C6	13 Oct 2015	High Tide (ft)	5.5
C6	13 Oct 2015	High Tide Time	935
C6	13 Oct 2015	Low Tide (ft)	0.32
C6	13 Oct 2015	Low Tide Time	1612
C6	13 Oct 2015	Comments	Lobster buoys; Kelp debris
C6	24 Oct 2015	Depth (m)	10
C6	24 Oct 2015	Arrive Time	913
C6	24 Oct 2015	Depart Time	917
C6	24 Oct 2015	Air Temp (C)	22
C6	24 Oct 2015	Weather	Clear
C6	24 Oct 2015	Visibility (mi)	12
C6	24 Oct 2015	Wind Speed (kts)	3
C6	24 Oct 2015	Wind Dir	W
C6	24 Oct 2015	Water Color	Bluish-Green
C6	24 Oct 2015	Wave Ht Low (ft)	4
C6	24 Oct 2015	Wave Period (sec)	13
C6	24 Oct 2015	Sea State	Calm
C6	24 Oct 2015	High Tide (ft)	5.51
C6	24 Oct 2015	High Tide Time	719
C6	24 Oct 2015	Low Tide (ft)	0.56
C6	24 Oct 2015	Low Tide Time	1337
C6	24 Oct 2015	Comments	Lobster floats; Kelp debris
C6	26 Oct 2015	Depth (m)	9
C6	26 Oct 2015	Arrive Time	1002
C6	26 Oct 2015	Depart Time	1011
C6	26 Oct 2015	Air Temp (C)	21

Station	Date	Parameter	Value
C6	26 Oct 2015	Weather	Partly Cloudy
C6	26 Oct 2015	Visibility (mi)	8
C6	26 Oct 2015	Wind Speed (kts)	5
C6	26 Oct 2015	Wind Dir	N
C6	26 Oct 2015	Water Color	Green
C6	26 Oct 2015	Wave Ht Low (ft)	3
C6	26 Oct 2015	Wave Period (sec)	13
C6	26 Oct 2015	Sea State	Calm
C6	26 Oct 2015	High Tide (ft)	6.42
C6	26 Oct 2015	High Tide Time	832
C6	26 Oct 2015	Low Tide (ft)	-0.61
C6	26 Oct 2015	Low Tide Time	1509
C6	26 Oct 2015	Comments	Kelp; Lobster floats
A7	01 Oct 2015	Depth (m)	19
A7	01 Oct 2015	Arrive Time	914
A7	01 Oct 2015	Depart Time	927
A7	01 Oct 2015	Air Temp (C)	22
A7	01 Oct 2015	Weather	Partly Cloudy
A7	01 Oct 2015	Visibility (mi)	8
A7	01 Oct 2015	Wind Speed (kts)	1
A7	01 Oct 2015	Wind Dir	SE
A7	01 Oct 2015	Water Color	Greenish-Blue
A7	01 Oct 2015	Wave Ht Low (ft)	3
A7	01 Oct 2015	Wave Period (sec)	9
A7	01 Oct 2015	Sea State	Calm
A7	01 Oct 2015	High Tide (ft)	5.93
A7	01 Oct 2015	High Tide Time	1143
A7	01 Oct 2015	Low Tide (ft)	1.3
A7	01 Oct 2015	Low Tide Time	534
A7	01 Oct 2015	Comments	Kelp
A7	07 Oct 2015	Depth (m)	19
A7	07 Oct 2015	Arrive Time	816
A7	07 Oct 2015	Depart Time	820
A7	07 Oct 2015	Air Temp (C)	21
A7	07 Oct 2015	Weather	Haze
A7	07 Oct 2015	Visibility (mi)	4
A7	07 Oct 2015	Wind Speed (kts)	2
A7	07 Oct 2015	Wind Dir	W
A7	07 Oct 2015	Water Color	Greenish-Blue
A7	07 Oct 2015	Wave Ht Low (ft)	2
A7	07 Oct 2015	Wave Period (sec)	7
A7	07 Oct 2015	Sea State	Calm
A7	07 Oct 2015	High Tide (ft)	4.5
A7	07 Oct 2015	High Tide Time	711
A7	07 Oct 2015	Low Tide (ft)	1.9
A7	07 Oct 2015	Low Tide Time	1255
A7	07 Oct 2015	Comments	Kelp; Lobster floats
A7	13 Oct 2015	Depth (m)	20
A7	13 Oct 2015	Arrive Time	802
A7	13 Oct 2015	Depart Time	814
A7	13 Oct 2015	Air Temp (C)	23
A7	13 Oct 2015	Weather	Partly Cloudy

Station	Date	Parameter	Value
A7	13 Oct 2015	Visibility (mi)	5
A7	13 Oct 2015	Wind Speed (kts)	3
A7	13 Oct 2015	Wind Dir	W
A7	13 Oct 2015	Water Color	Brownish-Green
A7	13 Oct 2015	Wave Ht Low (ft)	2
A7	13 Oct 2015	Wave Period (sec)	9
A7	13 Oct 2015	Sea State	Calm
A7	13 Oct 2015	High Tide (ft)	5.5
A7	13 Oct 2015	High Tide Time	935
A7	13 Oct 2015	Low Tide (ft)	0.32
A7	13 Oct 2015	Low Tide Time	1612
A7	13 Oct 2015	Comments	Lobster floats; Kelp
A7	24 Oct 2015	Depth (m)	14
A7	24 Oct 2015	Arrive Time	802
A7	24 Oct 2015	Depart Time	809
A7	24 Oct 2015	Air Temp (C)	21
A7	24 Oct 2015	Weather	Clear
A7	24 Oct 2015	Visibility (mi)	10
A7	24 Oct 2015	Wind Speed (kts)	3
A7	24 Oct 2015	Wind Dir	NE
A7	24 Oct 2015	Water Color	Greenish-Blue
A7	24 Oct 2015	Wave Ht Low (ft)	4
A7	24 Oct 2015	Wave Period (sec)	13
A7	24 Oct 2015	Sea State	Calm
A7	24 Oct 2015	High Tide (ft)	5.51
A7	24 Oct 2015	High Tide Time	719
A7	24 Oct 2015	Low Tide (ft)	0.56
A7	24 Oct 2015	Low Tide Time	1337
A7	24 Oct 2015	Comments	Lobster floats; Kelp
A7	26 Oct 2015	Depth (m)	20
A7	26 Oct 2015	Arrive Time	835
A7	26 Oct 2015	Depart Time	844
A7	26 Oct 2015	Air Temp (C)	21
A7	26 Oct 2015	Weather	Partly Cloudy
A7	26 Oct 2015	Visibility (mi)	6
A7	26 Oct 2015	Wind Speed (kts)	0
A7	26 Oct 2015	Wind Dir	
A7	26 Oct 2015	Water Color	Bluish-Green
A7	26 Oct 2015	Wave Ht Low (ft)	2
A7	26 Oct 2015	Wave Period (sec)	4
A7	26 Oct 2015	Sea State	Calm
A7	26 Oct 2015	High Tide (ft)	6.42
A7	26 Oct 2015	High Tide Time	832
A7	26 Oct 2015	Low Tide (ft)	-0.61
A7	26 Oct 2015	Low Tide Time	1509
A7	26 Oct 2015	Comments	Kelp; Lobster floats
C7	01 Oct 2015	Depth (m)	18
C7	01 Oct 2015	Arrive Time	955
C7	01 Oct 2015	Depart Time	1006
C7	01 Oct 2015	Air Temp (C)	23
C7	01 Oct 2015	Weather	Partly Cloudy
C7	01 Oct 2015	Visibility (mi)	10

Station	Date	Parameter	Value
C7	01 Oct 2015	Wind Speed (kts)	2
C7	01 Oct 2015	Wind Dir	SE
C7	01 Oct 2015	Water Color	Greenish-Brown
C7	01 Oct 2015	Wave Ht Low (ft)	3
C7	01 Oct 2015	Wave Period (sec)	9
C7	01 Oct 2015	Sea State	Calm
C7	01 Oct 2015	High Tide (ft)	5.93
C7	01 Oct 2015	High Tide Time	1143
C7	01 Oct 2015	Low Tide (ft)	1.3
C7	01 Oct 2015	Low Tide Time	534
C7	01 Oct 2015	Comments	Kelp
C7	07 Oct 2015	Depth (m)	18
C7	07 Oct 2015	Arrive Time	842
C7	07 Oct 2015	Depart Time	850
C7	07 Oct 2015	Air Temp (C)	21
C7	07 Oct 2015	Weather	Haze
C7	07 Oct 2015	Visibility (mi)	4
C7	07 Oct 2015	Wind Speed (kts)	0
C7	07 Oct 2015	Wind Dir	
C7	07 Oct 2015	Water Color	Greenish-Blue
C7	07 Oct 2015	Wave Ht Low (ft)	2
C7	07 Oct 2015	Wave Period (sec)	7
C7	07 Oct 2015	Sea State	Calm
C7	07 Oct 2015	High Tide (ft)	4.5
C7	07 Oct 2015	High Tide Time	711
C7	07 Oct 2015	Low Tide (ft)	1.9
C7	07 Oct 2015	Low Tide Time	1255
C7	07 Oct 2015	Comments	Kelp; Lobster floats
C7	13 Oct 2015	Depth (m)	19
C7	13 Oct 2015	Arrive Time	838
C7	13 Oct 2015	Depart Time	845
C7	13 Oct 2015	Air Temp (C)	24
C7	13 Oct 2015	Weather	Partly Cloudy
C7	13 Oct 2015	Visibility (mi)	5
C7	13 Oct 2015	Wind Speed (kts)	0
C7	13 Oct 2015	Wind Dir	
C7	13 Oct 2015	Water Color	Brownish-Green
C7	13 Oct 2015	Wave Ht Low (ft)	2
C7	13 Oct 2015	Wave Period (sec)	9
C7	13 Oct 2015	Sea State	Calm
C7	13 Oct 2015	High Tide (ft)	5.5
C7	13 Oct 2015	High Tide Time	935
C7	13 Oct 2015	Low Tide (ft)	0.32
C7	13 Oct 2015	Low Tide Time	1612
C7	13 Oct 2015	Comments	Lobster buoys; Kelp
C7	24 Oct 2015	Depth (m)	18
C7	24 Oct 2015	Arrive Time	840
C7	24 Oct 2015	Depart Time	844
C7	24 Oct 2015	Air Temp (C)	21
C7	24 Oct 2015	Weather	Clear
C7	24 Oct 2015	Visibility (mi)	10
C7	24 Oct 2015	Wind Speed (kts)	3

Station	Date	Parameter	Value
C7	24 Oct 2015	Wind Dir	NE
C7	24 Oct 2015	Water Color	Greenish-Blue
C7	24 Oct 2015	Wave Ht Low (ft)	4
C7	24 Oct 2015	Wave Period (sec)	13
C7	24 Oct 2015	Sea State	Calm
C7	24 Oct 2015	High Tide (ft)	5.51
C7	24 Oct 2015	High Tide Time	719
C7	24 Oct 2015	Low Tide (ft)	0.56
C7	24 Oct 2015	Low Tide Time	1337
C7	24 Oct 2015	Comments	Lobster floats; Kelp
C7	26 Oct 2015	Depth (m)	18
C7	26 Oct 2015	Arrive Time	923
C7	26 Oct 2015	Depart Time	930
C7	26 Oct 2015	Air Temp (C)	21
C7	26 Oct 2015	Weather	Partly Cloudy
C7	26 Oct 2015	Visibility (mi)	8
C7	26 Oct 2015	Wind Speed (kts)	0
C7	26 Oct 2015	Wind Dir	
C7	26 Oct 2015	Water Color	Bluish-Green
C7	26 Oct 2015	Wave Ht Low (ft)	3
C7	26 Oct 2015	Wave Period (sec)	13
C7	26 Oct 2015	Sea State	Calm
C7	26 Oct 2015	High Tide (ft)	6.42
C7	26 Oct 2015	High Tide Time	832
C7	26 Oct 2015	Low Tide (ft)	-0.61
C7	26 Oct 2015	Low Tide Time	1509
C7	26 Oct 2015	Comments	Kelp; Lobster floats
C8	01 Oct 2015	Depth (m)	20
C8	01 Oct 2015	Arrive Time	1015
C8	01 Oct 2015	Depart Time	1043
C8	01 Oct 2015	Air Temp (C)	23
C8	01 Oct 2015	Weather	Partly Cloudy
C8	01 Oct 2015	Visibility (mi)	10
C8	01 Oct 2015	Wind Speed (kts)	2
C8	01 Oct 2015	Wind Dir	S
C8	01 Oct 2015	Water Color	Greenish-Brown
C8	01 Oct 2015	Wave Ht Low (ft)	3
C8	01 Oct 2015	Wave Period (sec)	9
C8	01 Oct 2015	Sea State	Calm
C8	01 Oct 2015	High Tide (ft)	5.93
C8	01 Oct 2015	High Tide Time	1143
C8	01 Oct 2015	Low Tide (ft)	1.3
C8	01 Oct 2015	Low Tide Time	534
C8	01 Oct 2015	Comments	Kelp; Lobster floats
C8	07 Oct 2015	Depth (m)	19
C8	07 Oct 2015	Arrive Time	855
C8	07 Oct 2015	Depart Time	902
C8	07 Oct 2015	Air Temp (C)	21
C8	07 Oct 2015	Weather	Haze
C8	07 Oct 2015	Visibility (mi)	4
C8	07 Oct 2015	Wind Speed (kts)	2
C8	07 Oct 2015	Wind Dir	S

Station	Date	Parameter	Value
C8	07 Oct 2015	Water Color	Greenish-Blue
C8	07 Oct 2015	Wave Ht Low (ft)	2
C8	07 Oct 2015	Wave Period (sec)	7
C8	07 Oct 2015	Sea State	Calm
C8	07 Oct 2015	High Tide (ft)	4.5
C8	07 Oct 2015	High Tide Time	711
C8	07 Oct 2015	Low Tide (ft)	1.9
C8	07 Oct 2015	Low Tide Time	1255
C8	07 Oct 2015	Comments	Kelp; Lobster floats
C8	13 Oct 2015	Depth (m)	20
C8	13 Oct 2015	Arrive Time	851
C8	13 Oct 2015	Depart Time	858
C8	13 Oct 2015	Air Temp (C)	25
C8	13 Oct 2015	Weather	Partly Cloudy
C8	13 Oct 2015	Visibility (mi)	5
C8	13 Oct 2015	Wind Speed (kts)	0
C8	13 Oct 2015	Wind Dir	
C8	13 Oct 2015	Water Color	Brownish-Green
C8	13 Oct 2015	Wave Ht Low (ft)	2
C8	13 Oct 2015	Wave Period (sec)	9
C8	13 Oct 2015	Sea State	Calm
C8	13 Oct 2015	High Tide (ft)	5.5
C8	13 Oct 2015	High Tide Time	935
C8	13 Oct 2015	Low Tide (ft)	0.32
C8	13 Oct 2015	Low Tide Time	1612
C8	13 Oct 2015	Comments	Lobster buoys; Kelp
C8	24 Oct 2015	Depth (m)	20
C8	24 Oct 2015	Arrive Time	854
C8	24 Oct 2015	Depart Time	858
C8	24 Oct 2015	Air Temp (C)	21
C8	24 Oct 2015	Weather	Clear
C8	24 Oct 2015	Visibility (mi)	10
C8	24 Oct 2015	Wind Speed (kts)	3
C8	24 Oct 2015	Wind Dir	SE
C8	24 Oct 2015	Water Color	Greenish-Blue
C8	24 Oct 2015	Wave Ht Low (ft)	4
C8	24 Oct 2015	Wave Period (sec)	13
C8	24 Oct 2015	Sea State	Calm
C8	24 Oct 2015	High Tide (ft)	5.51
C8	24 Oct 2015	High Tide Time	719
C8	24 Oct 2015	Low Tide (ft)	0.56
C8	24 Oct 2015	Low Tide Time	1337
C8	24 Oct 2015	Comments	Lobster floats; Kelp debris
C8	26 Oct 2015	Depth (m)	20
C8	26 Oct 2015	Arrive Time	938
C8	26 Oct 2015	Depart Time	944
C8	26 Oct 2015	Air Temp (C)	21
C8	26 Oct 2015	Weather	Partly Cloudy
C8	26 Oct 2015	Visibility (mi)	8
C8	26 Oct 2015	Wind Speed (kts)	3
C8	26 Oct 2015	Wind Dir	SW
C8	26 Oct 2015	Water Color	Bluish-Green

Station	Date	Parameter	Value
C8	26 Oct 2015	Wave Ht Low (ft)	3
C8	26 Oct 2015	Wave Period (sec)	13
C8	26 Oct 2015	Sea State	Calm
C8	26 Oct 2015	High Tide (ft)	6.42
C8	26 Oct 2015	High Tide Time	832
C8	26 Oct 2015	Low Tide (ft)	-0.61
C8	26 Oct 2015	Low Tide Time	1509
C8	26 Oct 2015	Comments	Kelp; Lobster floats

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	01 Oct 2015	1	21.04	90.22	7.4	33.37	8.2	23.2	0.49
A1	01 Oct 2015	2	20.94	90.54	7.4	33.36	8.2	23.3	0.56
A1	01 Oct 2015	3	19.75	90.73	7.3	33.31	8.2	23.5	0.80
A1	01 Oct 2015	4	18.40	90.66	7.5	33.28	8.2	23.9	1.04
A1	01 Oct 2015	5	17.50	90.72	7.6	33.26	8.2	24.1	1.09
A1	01 Oct 2015	6	17.03	90.60	7.8	33.23	8.2	24.1	1.16
A1	01 Oct 2015	7	16.69	91.22	7.9	33.23	8.2	24.2	1.64
A1	01 Oct 2015	8	16.54	92.18	7.8	33.24	8.2	24.3	1.73
A1	01 Oct 2015	9	16.35	92.17	7.8	33.25	8.2	24.3	1.58
A1	01 Oct 2015	10	16.29	92.00	7.8	33.26	8.2	24.3	1.62
A1	01 Oct 2015	11	16.23	91.90	7.7	33.26	8.2	24.4	1.65
A1	01 Oct 2015	12	16.17	91.75	7.7	33.27	8.2	24.4	1.65
A1	01 Oct 2015	13	16.08	91.64	7.6	33.28	8.2	24.4	1.64
A1	01 Oct 2015	14	16.00	91.22	7.5	33.29	8.2	24.4	1.61
A1	01 Oct 2015	15	15.88	90.57	7.4	33.30	8.1	24.5	1.58
A1	01 Oct 2015	16	15.76	89.85	7.3	33.31	8.1	24.5	1.53
A1	01 Oct 2015	17	15.70	89.89	7.1	33.32	8.1	24.5	1.42
A1	01 Oct 2015	18	15.68	90.00	7.1	33.32	8.1	24.5	1.35
A1	07 Oct 2015	1	21.77	90.56	6.9	33.42	8.1	23.1	0.87
A1	07 Oct 2015	2	21.75	90.66	6.9	33.41	8.1	23.1	0.92
A1	07 Oct 2015	3	21.78	90.53	7.0	33.42	8.1	23.1	0.96
A1	07 Oct 2015	4	21.59	90.79	7.0	33.38	8.1	23.1	1.03
A1	07 Oct 2015	5	21.45	90.55	7.0	33.38	8.1	23.1	1.09
A1	07 Oct 2015	6	21.32	90.27	6.9	33.37	8.1	23.2	1.20
A1	07 Oct 2015	7	21.19	89.53	6.9	33.37	8.1	23.2	1.18
A1	07 Oct 2015	8	21.06	89.32	6.8	33.37	8.1	23.2	1.18
A1	07 Oct 2015	9	20.86	89.26	6.8	33.36	8.1	23.3	1.10
A1	07 Oct 2015	10	20.61	89.22	6.6	33.34	8.1	23.3	0.99
A1	07 Oct 2015	11	20.01	89.78	6.5	33.33	8.1	23.5	0.92
A1	07 Oct 2015	12	19.55	90.02	6.5	33.31	8.1	23.6	0.79
A1	07 Oct 2015	13	18.94	90.23	6.7	33.31	8.1	23.7	0.74
A1	07 Oct 2015	14	18.69	90.39	7.0	33.31	8.1	23.8	0.81
A1	07 Oct 2015	15	18.56	90.43	7.1	33.31	8.1	23.8	0.87
A1	07 Oct 2015	16	18.52	90.91	7.1	33.32	8.1	23.9	0.94
A1	07 Oct 2015	17	18.47	90.97	7.1	33.32	8.1	23.9	0.89
A1	07 Oct 2015	18	18.45	91.00	7.1	33.32	8.1	23.9	0.90
A1	07 Oct 2015	19	18.44	91.15	7.0	33.32	8.1	23.9	0.84
A1	13 Oct 2015	1	21.44	88.82	7.3	33.36	8.2	23.1	1.11
A1	13 Oct 2015	2	21.42	88.85	7.3	33.36	8.2	23.1	1.14
A1	13 Oct 2015	3	21.29	88.76	7.3	33.36	8.2	23.2	1.19
A1	13 Oct 2015	4	21.24	88.85	7.3	33.36	8.2	23.2	1.24
A1	13 Oct 2015	5	21.20	88.89	7.3	33.36	8.2	23.2	1.25
A1	13 Oct 2015	6	21.18	88.85	7.2	33.36	8.2	23.2	1.29
A1	13 Oct 2015	7	21.08	89.08	7.1	33.36	8.2	23.2	1.23
A1	13 Oct 2015	8	21.00	88.93	7.1	33.36	8.1	23.2	1.30
A1	13 Oct 2015	9	20.92	88.97	7.0	33.36	8.1	23.3	1.29
A1	13 Oct 2015	10	20.81	88.90	6.8	33.35	8.1	23.3	1.27
A1	13 Oct 2015	11	20.59	88.80	6.8	33.36	8.1	23.4	1.19
A1	13 Oct 2015	12	20.44	88.69	6.7	33.35	8.1	23.4	1.18

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A1	13 Oct 2015	13	20.27	88.53	6.7	33.36	8.1	23.4	1.18
A1	13 Oct 2015	14	20.14	88.53	6.6	33.35	8.1	23.5	1.11
A1	13 Oct 2015	15	19.89	88.44	6.5	33.35	8.1	23.5	1.13
A1	13 Oct 2015	16	19.42	88.30	6.7	33.33	8.1	23.6	1.04
A1	13 Oct 2015	17	18.89	88.13	6.8	33.34	8.1	23.8	1.10
A1	13 Oct 2015	18	18.24	87.19	7.0	33.38	8.1	24.0	0.99
A1	13 Oct 2015	19	18.06	83.96	7.0	33.40	8.1	24.0	1.18
A1	24 Oct 2015	1	21.15	88.80	6.5	33.45	8.1	23.3	1.12
A1	24 Oct 2015	2	21.14	88.38	6.6	33.45	8.1	23.3	1.08
A1	24 Oct 2015	3	21.08	88.93	6.7	33.45	8.1	23.3	1.03
A1	24 Oct 2015	4	21.06	89.73	6.7	33.44	8.1	23.3	0.98
A1	24 Oct 2015	5	21.04	90.59	6.7	33.45	8.1	23.3	0.96
A1	24 Oct 2015	6	21.03	90.96	6.7	33.44	8.1	23.3	0.97
A1	24 Oct 2015	7	20.98	91.19	6.8	33.44	8.1	23.3	0.92
A1	24 Oct 2015	8	20.95	90.99	6.7	33.44	8.1	23.3	1.00
A1	24 Oct 2015	9	20.83	91.09	6.8	33.43	8.1	23.3	0.97
A1	24 Oct 2015	10	20.69	91.25	6.8	33.42	8.1	23.4	0.97
A1	24 Oct 2015	11	20.51	91.51	6.9	33.43	8.1	23.4	1.00
A1	24 Oct 2015	12	20.34	91.52	6.9	33.41	8.1	23.5	1.02
A1	24 Oct 2015	13	20.07	91.48	6.9	33.41	8.1	23.5	1.10
A1	24 Oct 2015	14	19.71	91.37	7.0	33.39	8.1	23.6	1.09
A1	24 Oct 2015	15	19.32	91.10	7.0	33.40	8.1	23.7	1.09
A1	24 Oct 2015	16	19.05	91.19	6.8	33.38	8.1	23.8	1.05
A1	24 Oct 2015	17	18.43	90.91	6.7	33.38	8.1	23.9	0.98
A1	24 Oct 2015	18	18.13	90.01	6.6	33.39	8.1	24.0	0.88
A1	24 Oct 2015	19	18.07	88.25	6.6	33.39	8.1	24.0	0.86
A1	26 Oct 2015	1	21.45	90.88	6.7	33.47	8.1	23.2	1.17
A1	26 Oct 2015	2	21.37	90.82	6.7	33.46	8.1	23.2	1.31
A1	26 Oct 2015	3	21.18	90.70	6.7	33.46	8.1	23.3	1.61
A1	26 Oct 2015	4	21.11	89.89	6.7	33.45	8.1	23.3	1.84
A1	26 Oct 2015	5	20.96	89.41	6.7	33.45	8.1	23.3	1.82
A1	26 Oct 2015	6	20.79	88.84	6.7	33.44	8.1	23.4	1.77
A1	26 Oct 2015	7	20.63	88.61	6.6	33.42	8.1	23.4	1.71
A1	26 Oct 2015	8	20.18	88.52	6.5	33.42	8.1	23.5	1.68
A1	26 Oct 2015	9	19.92	88.65	6.5	33.41	8.1	23.6	1.59
A1	26 Oct 2015	10	19.71	88.69	6.5	33.41	8.1	23.6	1.49
A1	26 Oct 2015	11	19.48	88.65	6.5	33.41	8.1	23.7	1.43
A1	26 Oct 2015	12	19.34	88.81	6.5	33.41	8.1	23.7	1.34
A1	26 Oct 2015	13	19.19	88.45	6.5	33.40	8.1	23.8	1.30
A1	26 Oct 2015	14	19.10	88.24	6.5	33.41	8.1	23.8	1.50
A1	26 Oct 2015	15	19.06	88.18	6.5	33.41	8.1	23.8	1.48
A1	26 Oct 2015	16	18.97	88.17	6.5	33.41	8.1	23.8	1.37
A1	26 Oct 2015	17	18.88	88.20	6.4	33.41	8.1	23.8	1.37
A1	26 Oct 2015	18	18.78	88.26	6.3	33.41	8.1	23.9	1.19
A1	26 Oct 2015	19	18.52	88.11	6.3	33.41	8.0	23.9	1.07
A1	26 Oct 2015	20	18.43	86.96	6.3	33.41	8.0	24.0	1.00
C4	01 Oct 2015	1	21.83	90.84	6.9	33.36	8.2	23.0	0.37
C4	01 Oct 2015	2	21.42	90.85	6.9	33.37	8.2	23.1	0.40
C4	01 Oct 2015	3	21.18	90.63	6.8	33.36	8.2	23.2	0.49
C4	01 Oct 2015	4	20.92	89.77	6.7	33.36	8.2	23.3	0.61
C4	01 Oct 2015	5	20.65	89.15	6.5	33.34	8.2	23.3	0.78
C4	01 Oct 2015	6	20.26	87.99	6.3	33.34	8.1	23.4	0.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C4	01 Oct 2015	7	19.83	87.37	5.8	33.32	8.1	23.5	0.96
C4	01 Oct 2015	8	19.37	86.47	5.4	33.32	8.1	23.6	0.81
C4	01 Oct 2015	9	19.00	85.72	5.1	33.32	8.0	23.7	0.64
C4	01 Oct 2015	10	18.79	84.38	4.9	33.33	8.0	23.8	0.48
C4	01 Oct 2015	11	18.67	80.92	4.9	33.33	8.0	23.8	0.45
C4	07 Oct 2015	1	21.44	86.23	6.7	33.39	8.1	23.1	0.69
C4	07 Oct 2015	2	21.42	86.18	6.7	33.39	8.1	23.2	0.74
C4	07 Oct 2015	3	21.40	86.19	6.7	33.39	8.1	23.2	0.82
C4	07 Oct 2015	4	21.39	86.05	6.7	33.39	8.1	23.2	0.91
C4	07 Oct 2015	5	21.38	86.04	6.7	33.39	8.1	23.2	0.90
C4	07 Oct 2015	6	21.39	86.01	6.7	33.39	8.1	23.2	0.93
C4	07 Oct 2015	7	21.38	86.03	6.7	33.39	8.1	23.2	0.94
C4	07 Oct 2015	8	21.38	86.02	6.7	33.39	8.1	23.2	0.93
C4	07 Oct 2015	9	21.35	86.14	6.5	33.38	8.1	23.2	0.85
C4	07 Oct 2015	10	21.28	86.18	6.3	33.38	8.1	23.2	0.74
C4	13 Oct 2015	1	21.53	81.89	6.9	33.37	8.1	23.1	0.80
C4	13 Oct 2015	2	21.47	81.70	6.9	33.36	8.1	23.1	0.91
C4	13 Oct 2015	3	21.32	80.99	6.8	33.35	8.1	23.2	1.17
C4	13 Oct 2015	4	21.17	78.95	6.8	33.37	8.1	23.2	1.44
C4	13 Oct 2015	5	21.15	77.16	6.8	33.36	8.1	23.2	1.58
C4	13 Oct 2015	6	21.14	74.47	6.7	33.36	8.1	23.2	1.56
C4	13 Oct 2015	7	21.13	73.38	6.7	33.37	8.1	23.2	1.52
C4	13 Oct 2015	8	21.12	73.44	6.5	33.37	8.1	23.2	1.46
C4	13 Oct 2015	9	21.06	73.56	5.8	33.36	8.1	23.2	1.28
C4	13 Oct 2015	10	20.68	73.52	4.9	33.34	8.0	23.3	0.94
C4	13 Oct 2015	11	20.43	71.58	4.4	33.36	7.9	23.4	0.83
C4	24 Oct 2015	1	21.51	76.33	5.3	33.48	8.0	23.2	1.03
C4	24 Oct 2015	2	21.43	75.92	5.2	33.49	8.0	23.2	1.15
C4	24 Oct 2015	3	21.38	74.93	5.4	33.48	8.0	23.2	1.24
C4	24 Oct 2015	4	21.34	74.36	5.5	33.48	8.0	23.2	1.20
C4	24 Oct 2015	5	21.33	74.84	5.5	33.46	8.0	23.2	1.27
C4	24 Oct 2015	6	21.29	75.37	5.5	33.46	8.0	23.2	1.41
C4	24 Oct 2015	7	21.13	75.26	5.4	33.45	8.0	23.3	1.30
C4	24 Oct 2015	8	20.58	77.46	5.4	33.44	8.0	23.4	1.18
C4	24 Oct 2015	9	20.11	78.86	5.2	33.43	8.0	23.5	0.94
C4	24 Oct 2015	10	19.91	71.90	5.2	33.42	8.0	23.6	0.74
C4	26 Oct 2015	1	21.75	85.09	6.2	33.48	8.1	23.1	1.25
C4	26 Oct 2015	2	21.64	82.34	6.3	33.48	8.1	23.2	1.19
C4	26 Oct 2015	3	21.60	81.42	6.3	33.47	8.1	23.2	1.10
C4	26 Oct 2015	4	21.53	83.61	6.3	33.47	8.1	23.2	1.06
C4	26 Oct 2015	5	21.37	83.95	6.4	33.48	8.1	23.2	1.12
C4	26 Oct 2015	6	21.09	83.43	6.3	33.47	8.1	23.3	1.25
C4	26 Oct 2015	7	20.87	80.27	5.8	33.45	8.0	23.4	1.47
C4	26 Oct 2015	8	20.63	72.96	5.1	33.45	8.0	23.4	1.67
C4	26 Oct 2015	9	20.48	59.77	4.6	33.44	7.9	23.4	1.57
C4	26 Oct 2015	10	20.48	45.32	4.4	33.43	7.9	23.4	1.54
C5	01 Oct 2015	1	21.49	90.05	6.8	33.40	8.2	23.1	0.46
C5	01 Oct 2015	2	21.34	90.17	6.8	33.44	8.2	23.2	0.45
C5	01 Oct 2015	3	21.20	90.52	7.0	33.42	8.2	23.2	0.44
C5	01 Oct 2015	4	21.15	90.71	7.1	33.41	8.2	23.2	0.45

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C5	01 Oct 2015	5	21.15	90.87	7.2	33.38	8.2	23.2	0.49
C5	01 Oct 2015	6	21.02	90.91	7.3	33.39	8.2	23.3	0.51
C5	01 Oct 2015	7	20.18	90.92	7.1	33.41	8.2	23.5	0.58
C5	01 Oct 2015	8	19.20	89.42	6.9	33.38	8.2	23.7	0.71
C5	01 Oct 2015	9	18.58	85.95	7.0	33.35	8.1	23.9	0.72
C5	01 Oct 2015	10	18.39	81.27	7.1	33.33	8.2	23.9	0.70
C5	01 Oct 2015	11	18.32	78.43	7.0	33.34	8.2	23.9	0.64
C5	07 Oct 2015	1	21.73	90.74	6.8	33.41	8.1	23.1	0.40
C5	07 Oct 2015	2	21.70	90.67	6.8	33.40	8.1	23.1	0.44
C5	07 Oct 2015	3	21.66	90.27	6.8	33.40	8.1	23.1	0.48
C5	07 Oct 2015	4	21.64	90.42	6.9	33.40	8.1	23.1	0.53
C5	07 Oct 2015	5	21.63	90.55	6.9	33.40	8.1	23.1	0.59
C5	07 Oct 2015	6	21.61	90.55	6.9	33.40	8.1	23.1	0.61
C5	07 Oct 2015	7	21.61	90.54	6.8	33.40	8.1	23.1	0.59
C5	07 Oct 2015	8	21.43	90.43	6.7	33.37	8.1	23.1	0.54
C5	07 Oct 2015	9	21.13	90.38	6.7	33.38	8.1	23.2	0.55
C5	13 Oct 2015	1	21.95	54.51	5.9	33.38	8.0	23.0	0.96
C5	13 Oct 2015	2	21.79	52.63	6.0	33.36	8.0	23.0	1.17
C5	13 Oct 2015	3	21.23	52.16	6.0	33.36	8.0	23.2	1.26
C5	13 Oct 2015	4	21.11	55.42	5.9	33.36	8.0	23.2	1.14
C5	13 Oct 2015	5	20.77	59.20	5.8	33.34	8.0	23.3	1.00
C5	13 Oct 2015	6	20.48	66.63	5.8	33.36	8.0	23.4	0.92
C5	13 Oct 2015	7	20.42	68.02	5.9	33.35	8.0	23.4	0.93
C5	13 Oct 2015	8	20.24	75.61	6.0	33.36	8.0	23.4	0.91
C5	13 Oct 2015	9	20.14	80.96	5.7	33.36	8.0	23.5	0.86
C5	13 Oct 2015	10	20.03	81.72	5.2	33.36	8.0	23.5	0.94
C5	13 Oct 2015	11	20.02	75.34	4.9	33.36	8.0	23.5	2.14
C5	24 Oct 2015	1	21.88	53.23	6.0	33.47	8.0	23.1	1.13
C5	24 Oct 2015	2	21.82	53.70	6.1	33.47	8.0	23.1	1.07
C5	24 Oct 2015	3	21.80	55.73	6.2	33.47	8.0	23.1	0.96
C5	24 Oct 2015	4	21.68	60.19	6.2	33.46	8.1	23.1	0.83
C5	24 Oct 2015	5	21.56	64.47	6.0	33.45	8.1	23.2	0.73
C5	24 Oct 2015	6	20.86	72.65	5.7	33.42	8.1	23.3	0.95
C5	24 Oct 2015	7	20.41	74.18	5.7	33.41	8.0	23.4	0.91
C5	24 Oct 2015	8	20.02	56.08	5.8	33.40	8.0	23.5	0.91
C5	24 Oct 2015	9	19.65	47.40	5.9	33.40	8.0	23.6	1.16
C5	24 Oct 2015	10	19.60	25.91	6.0	33.40	8.0	23.6	1.36
C5	26 Oct 2015	1	21.90	55.25	6.0	33.47	8.0	23.1	1.41
C5	26 Oct 2015	2	21.87	55.11	6.1	33.48	8.0	23.1	1.48
C5	26 Oct 2015	3	21.75	54.74	6.2	33.46	8.0	23.1	1.41
C5	26 Oct 2015	4	21.64	54.61	6.2	33.47	8.1	23.2	1.25
C5	26 Oct 2015	5	21.61	58.93	5.9	33.47	8.1	23.2	1.19
C5	26 Oct 2015	6	21.55	67.68	5.6	33.46	8.1	23.2	1.23
C5	26 Oct 2015	7	21.28	65.45	5.4	33.44	8.0	23.2	1.15
C5	26 Oct 2015	8	20.98	50.09	5.3	33.44	8.0	23.3	0.98
C5	26 Oct 2015	9	20.83	43.51	5.2	33.43	8.0	23.3	0.82
C5	26 Oct 2015	10	20.70	59.22	4.8	33.43	8.0	23.4	1.04
C5	26 Oct 2015	11	20.65	58.97	4.5	33.42	8.0	23.4	3.37
A6	01 Oct 2015	1	21.73	86.70	7.0	33.34	8.2	23.0	0.60
A6	01 Oct 2015	2	20.54	87.64	7.1	33.33	8.2	23.3	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	01 Oct 2015	3	19.92	90.16	7.0	33.32	8.2	23.5	0.67
A6	01 Oct 2015	4	19.32	91.00	7.0	33.29	8.1	23.6	0.69
A6	01 Oct 2015	5	18.33	91.26	7.1	33.27	8.1	23.9	0.75
A6	01 Oct 2015	6	17.36	91.37	7.4	33.25	8.2	24.2	0.91
A6	01 Oct 2015	7	16.53	91.52	7.7	33.24	8.2	24.3	1.14
A6	01 Oct 2015	8	16.31	91.79	7.8	33.24	8.2	24.3	1.35
A6	01 Oct 2015	9	16.18	91.94	7.7	33.25	8.2	24.4	1.52
A6	01 Oct 2015	10	16.10	92.06	7.6	33.26	8.2	24.4	1.62
A6	01 Oct 2015	11	15.97	91.99	7.6	33.27	8.2	24.4	1.68
A6	01 Oct 2015	12	15.92	91.84	7.5	33.28	8.2	24.4	1.67
A6	01 Oct 2015	13	15.88	91.66	7.4	33.29	8.2	24.5	1.67
A6	01 Oct 2015	14	15.83	91.24	7.3	33.29	8.1	24.5	1.64
A6	01 Oct 2015	15	15.71	91.31	7.3	33.31	8.1	24.5	1.60
A6	01 Oct 2015	16	15.66	91.05	7.1	33.32	8.1	24.5	1.51
A6	01 Oct 2015	17	15.61	90.70	7.1	33.32	8.1	24.5	1.44
A6	01 Oct 2015	18	15.51	90.56	7.0	33.33	8.1	24.6	1.32
A6	01 Oct 2015	19	15.49	90.36	6.9	33.34	8.1	24.6	1.20
A6	07 Oct 2015	1	21.67	92.78	6.5	33.37	8.1	23.1	0.49
A6	07 Oct 2015	2	21.64	92.07	6.6	33.42	8.1	23.1	0.44
A6	07 Oct 2015	3	21.59	92.20	6.7	33.41	8.1	23.1	0.48
A6	07 Oct 2015	4	21.39	91.52	6.8	33.46	8.1	23.2	0.53
A6	07 Oct 2015	5	20.99	92.43	6.8	33.42	8.1	23.3	0.66
A6	07 Oct 2015	6	20.76	92.22	6.9	33.38	8.1	23.3	0.72
A6	07 Oct 2015	7	20.45	92.02	6.9	33.36	8.1	23.4	0.80
A6	07 Oct 2015	8	20.38	92.02	7.0	33.36	8.1	23.4	0.84
A6	07 Oct 2015	9	20.22	92.03	7.0	33.36	8.1	23.5	0.80
A6	07 Oct 2015	10	20.12	92.10	7.1	33.35	8.1	23.5	0.85
A6	07 Oct 2015	11	19.97	92.29	7.0	33.34	8.1	23.5	0.82
A6	07 Oct 2015	12	19.73	92.48	7.1	33.34	8.1	23.6	0.82
A6	07 Oct 2015	13	19.53	92.56	7.1	33.34	8.1	23.6	0.77
A6	07 Oct 2015	14	19.38	92.63	7.0	33.33	8.1	23.6	0.77
A6	07 Oct 2015	15	19.10	92.57	7.0	33.33	8.1	23.7	0.75
A6	07 Oct 2015	16	19.04	92.40	7.0	33.33	8.1	23.7	0.72
A6	07 Oct 2015	17	18.93	92.33	7.0	33.32	8.1	23.8	0.72
A6	07 Oct 2015	18	18.55	92.30	7.0	33.32	8.1	23.9	0.81
A6	07 Oct 2015	19	18.47	92.04	6.9	33.32	8.1	23.9	0.79
A6	13 Oct 2015	1	21.59	90.50	7.2	33.37	8.2	23.1	0.89
A6	13 Oct 2015	2	21.59	90.43	7.2	33.37	8.2	23.1	0.93
A6	13 Oct 2015	3	21.59	90.46	7.2	33.37	8.2	23.1	0.96
A6	13 Oct 2015	4	21.57	90.66	7.1	33.37	8.2	23.1	1.00
A6	13 Oct 2015	5	21.57	90.66	7.2	33.37	8.2	23.1	1.03
A6	13 Oct 2015	6	21.57	90.65	7.2	33.37	8.2	23.1	1.06
A6	13 Oct 2015	7	21.57	90.67	7.2	33.37	8.2	23.1	1.13
A6	13 Oct 2015	8	21.56	90.68	7.2	33.37	8.2	23.1	1.18
A6	13 Oct 2015	9	21.53	90.56	7.1	33.37	8.2	23.1	1.12
A6	13 Oct 2015	10	21.51	90.52	7.1	33.37	8.2	23.1	1.14
A6	13 Oct 2015	11	21.43	89.99	7.1	33.36	8.2	23.1	1.13
A6	13 Oct 2015	12	21.34	89.73	7.0	33.36	8.2	23.2	1.16
A6	13 Oct 2015	13	21.03	90.02	7.0	33.36	8.1	23.2	1.18
A6	13 Oct 2015	14	21.07	90.02	7.0	33.37	8.1	23.2	1.14
A6	13 Oct 2015	15	20.44	89.94	7.0	33.33	8.1	23.4	1.13
A6	13 Oct 2015	16	19.83	89.98	7.1	33.35	8.1	23.5	1.18
A6	13 Oct 2015	17	19.49	90.16	7.0	33.34	8.1	23.6	1.13

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A6	13 Oct 2015	18	18.71	89.76	7.1	33.37	8.1	23.8	1.02
A6	13 Oct 2015	19	18.52	88.95	7.2	33.38	8.1	23.9	0.98
A6	13 Oct 2015	20	18.44	88.29	7.2	33.38	8.1	23.9	0.95
A6	24 Oct 2015	1	21.81	88.95	6.5	33.47	8.1	23.1	0.67
A6	24 Oct 2015	2	21.81	89.05	6.5	33.47	8.1	23.1	0.70
A6	24 Oct 2015	3	21.80	89.02	6.5	33.47	8.1	23.1	0.71
A6	24 Oct 2015	4	21.79	89.10	6.5	33.47	8.1	23.1	0.70
A6	24 Oct 2015	5	21.59	89.30	6.4	33.44	8.1	23.1	0.73
A6	24 Oct 2015	6	20.82	89.85	6.5	33.43	8.1	23.3	0.78
A6	24 Oct 2015	7	20.48	90.65	6.5	33.42	8.1	23.4	0.79
A6	24 Oct 2015	8	20.13	90.65	6.6	33.41	8.1	23.5	0.86
A6	24 Oct 2015	9	20.12	90.48	6.6	33.39	8.1	23.5	0.95
A6	24 Oct 2015	10	19.70	90.53	6.8	33.38	8.1	23.6	1.02
A6	24 Oct 2015	11	19.60	89.54	6.8	33.39	8.1	23.6	1.00
A6	24 Oct 2015	12	19.26	90.17	6.8	33.39	8.1	23.7	1.00
A6	24 Oct 2015	13	19.05	91.05	6.9	33.39	8.1	23.8	0.99
A6	24 Oct 2015	14	18.86	91.06	6.8	33.39	8.1	23.8	0.93
A6	24 Oct 2015	15	18.59	91.11	6.8	33.39	8.1	23.9	0.86
A6	24 Oct 2015	16	18.49	90.91	6.7	33.40	8.1	23.9	0.80
A6	24 Oct 2015	17	18.40	90.75	6.7	33.40	8.1	23.9	0.76
A6	24 Oct 2015	18	18.39	90.52	6.7	33.40	8.1	23.9	0.76
A6	26 Oct 2015	1	21.79	87.47	6.7	33.48	8.1	23.1	0.76
A6	26 Oct 2015	2	21.78	87.91	6.6	33.48	8.1	23.1	0.78
A6	26 Oct 2015	3	21.77	88.95	6.6	33.48	8.1	23.1	0.85
A6	26 Oct 2015	4	21.76	89.27	6.7	33.48	8.1	23.1	0.90
A6	26 Oct 2015	5	21.76	89.63	6.6	33.48	8.1	23.1	0.92
A6	26 Oct 2015	6	21.75	89.52	6.6	33.48	8.1	23.1	0.92
A6	26 Oct 2015	7	21.74	89.45	6.6	33.48	8.1	23.1	0.95
A6	26 Oct 2015	8	21.71	89.63	6.6	33.48	8.1	23.1	0.96
A6	26 Oct 2015	9	21.69	89.64	6.5	33.48	8.1	23.1	0.98
A6	26 Oct 2015	10	21.54	89.56	6.4	33.46	8.1	23.2	0.89
A6	26 Oct 2015	11	21.13	89.64	6.2	33.45	8.1	23.3	0.79
A6	26 Oct 2015	12	20.68	89.55	6.1	33.44	8.1	23.4	0.74
A6	26 Oct 2015	13	20.31	89.62	6.1	33.42	8.1	23.5	0.72
A6	26 Oct 2015	14	19.77	89.47	6.1	33.42	8.1	23.6	0.73
A6	26 Oct 2015	15	19.38	89.25	6.1	33.38	8.1	23.7	0.74
A6	26 Oct 2015	16	18.79	89.06	6.1	33.39	8.1	23.8	0.73
A6	26 Oct 2015	17	18.38	88.81	6.1	33.39	8.1	23.9	0.72
A6	26 Oct 2015	18	18.04	88.43	6.1	33.40	8.0	24.0	0.72
A6	26 Oct 2015	19	17.94	88.15	6.1	33.41	8.0	24.1	0.72
C6	01 Oct 2015	1	21.79	81.69	6.9	33.34	8.2	23.0	0.68
C6	01 Oct 2015	2	20.74	82.83	6.9	33.33	8.2	23.3	0.83
C6	01 Oct 2015	3	20.32	87.12	6.7	33.35	8.2	23.4	1.04
C6	01 Oct 2015	4	20.12	86.34	6.5	33.34	8.1	23.5	1.22
C6	01 Oct 2015	5	19.91	85.25	6.3	33.32	8.1	23.5	1.37
C6	01 Oct 2015	6	19.53	82.89	6.1	33.33	8.1	23.6	1.33
C6	01 Oct 2015	7	19.38	79.88	5.9	33.33	8.1	23.6	1.08
C6	01 Oct 2015	8	19.25	75.99	5.9	33.33	8.1	23.7	0.81
C6	01 Oct 2015	9	19.24	66.86	5.9	33.34	8.1	23.7	0.70
C6	07 Oct 2015	1	21.50	88.46	6.6	33.38	8.1	23.1	0.42
C6	07 Oct 2015	2	21.49	88.58	6.7	33.38	8.1	23.1	0.50

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C6	07 Oct 2015	3	21.48	88.24	6.7	33.38	8.1	23.1	0.58
C6	07 Oct 2015	4	21.46	88.82	6.7	33.38	8.1	23.1	0.65
C6	07 Oct 2015	5	21.44	89.02	6.7	33.38	8.1	23.1	0.67
C6	07 Oct 2015	6	21.44	88.75	6.6	33.38	8.1	23.1	0.67
C6	07 Oct 2015	7	21.41	88.50	6.5	33.38	8.1	23.1	0.61
C6	07 Oct 2015	8	21.34	88.48	6.1	33.37	8.1	23.2	0.53
C6	07 Oct 2015	9	21.11	88.56	5.8	33.37	8.1	23.2	0.48
C6	07 Oct 2015	10	21.11	87.83	5.7	33.37	8.0	23.2	0.45
C6	13 Oct 2015	1	21.81	76.43	6.5	33.38	8.1	23.0	1.15
C6	13 Oct 2015	2	21.80	76.42	6.5	33.37	8.1	23.0	1.18
C6	13 Oct 2015	3	21.74	76.85	6.2	33.38	8.1	23.1	1.28
C6	13 Oct 2015	4	21.54	75.74	5.7	33.35	8.0	23.1	1.20
C6	13 Oct 2015	5	21.08	71.69	5.3	33.35	8.0	23.2	0.98
C6	13 Oct 2015	6	20.85	66.24	5.0	33.36	8.0	23.3	0.86
C6	13 Oct 2015	7	20.77	66.42	4.9	33.36	8.0	23.3	0.77
C6	13 Oct 2015	8	20.66	67.00	4.8	33.36	8.0	23.3	0.76
C6	13 Oct 2015	9	20.60	60.98	4.7	33.36	7.9	23.4	0.78
C6	13 Oct 2015	10	20.59	54.66	4.7	33.36	7.9	23.4	0.76
C6	24 Oct 2015	1	21.79	70.44	5.5	33.43	8.1	23.1	0.64
C6	24 Oct 2015	2	21.78	69.85	6.0	33.44	8.1	23.1	0.67
C6	24 Oct 2015	3	21.78	69.53	6.1	33.45	8.1	23.1	0.71
C6	24 Oct 2015	4	21.75	69.33	6.0	33.46	8.1	23.1	0.75
C6	24 Oct 2015	5	21.62	69.27	5.9	33.47	8.1	23.2	0.78
C6	24 Oct 2015	6	21.46	69.34	6.0	33.49	8.1	23.2	0.80
C6	24 Oct 2015	7	20.86	69.34	6.0	33.54	8.1	23.4	0.80
C6	24 Oct 2015	8	20.25	69.77	5.9	33.49	8.1	23.5	0.74
C6	24 Oct 2015	9	19.82	72.80	6.0	33.44	8.1	23.6	0.71
C6	24 Oct 2015	10	19.78	75.10	6.0	33.43	8.1	23.6	0.72
C6	26 Oct 2015	1	21.89	72.02	6.1	33.48	8.1	23.1	0.67
C6	26 Oct 2015	2	21.84	71.36	6.1	33.48	8.1	23.1	0.82
C6	26 Oct 2015	3	21.75	70.42	6.2	33.48	8.1	23.1	1.04
C6	26 Oct 2015	4	21.71	69.23	6.2	33.48	8.1	23.1	1.07
C6	26 Oct 2015	5	21.69	70.50	6.1	33.48	8.1	23.1	0.99
C6	26 Oct 2015	6	21.68	71.48	6.0	33.48	8.1	23.1	0.95
C6	26 Oct 2015	7	21.63	72.28	5.8	33.47	8.1	23.2	0.91
C6	26 Oct 2015	8	21.57	71.53	5.6	33.47	8.1	23.2	0.89
C6	26 Oct 2015	9	21.48	69.73	5.4	33.47	8.0	23.2	0.95
C6	26 Oct 2015	10	21.46	68.16	5.4	33.47	8.0	23.2	0.94
A7	01 Oct 2015	1	21.29	91.40	7.2	33.38	8.2	23.2	0.46
A7	01 Oct 2015	2	21.28	91.46	7.3	33.38	8.2	23.2	0.47
A7	01 Oct 2015	3	21.25	91.31	7.3	33.38	8.2	23.2	0.47
A7	01 Oct 2015	4	21.20	91.51	7.2	33.38	8.2	23.2	0.51
A7	01 Oct 2015	5	21.19	91.59	7.3	33.38	8.2	23.2	0.52
A7	01 Oct 2015	6	20.95	91.58	7.2	33.34	8.2	23.2	0.55
A7	01 Oct 2015	7	20.42	91.49	7.3	33.36	8.2	23.4	0.63
A7	01 Oct 2015	8	20.40	91.44	7.4	33.36	8.2	23.4	0.71
A7	01 Oct 2015	9	20.33	91.25	7.4	33.36	8.2	23.4	0.75
A7	01 Oct 2015	10	20.30	90.34	7.4	33.36	8.2	23.4	0.77
A7	01 Oct 2015	11	19.87	90.88	7.2	33.34	8.2	23.5	0.78
A7	01 Oct 2015	12	18.81	90.87	7.3	33.35	8.2	23.8	0.82
A7	01 Oct 2015	13	16.78	90.97	7.5	33.32	8.2	24.3	0.98

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A7	01 Oct 2015	14	16.52	90.70	7.5	33.30	8.2	24.3	1.12
A7	01 Oct 2015	15	16.12	91.39	7.5	33.31	8.2	24.4	1.22
A7	01 Oct 2015	16	15.98	91.41	7.3	33.30	8.1	24.4	1.32
A7	01 Oct 2015	17	15.76	90.81	7.2	33.32	8.1	24.5	1.34
A7	01 Oct 2015	18	15.55	90.45	7.1	33.34	8.1	24.6	1.34
A7	01 Oct 2015	19	15.48	89.73	6.9	33.34	8.1	24.6	1.27
A7	07 Oct 2015	1	21.69	92.74	7.0	33.42	8.1	23.1	0.53
A7	07 Oct 2015	2	21.69	92.78	6.9	33.41	8.1	23.1	0.56
A7	07 Oct 2015	3	21.45	92.91	7.0	33.39	8.1	23.1	0.61
A7	07 Oct 2015	4	21.26	92.95	7.0	33.39	8.1	23.2	0.65
A7	07 Oct 2015	5	21.16	93.01	7.0	33.38	8.1	23.2	0.68
A7	07 Oct 2015	6	20.99	92.88	7.0	33.37	8.1	23.3	0.73
A7	07 Oct 2015	7	20.90	92.72	6.9	33.36	8.1	23.3	0.73
A7	07 Oct 2015	8	20.63	92.72	6.9	33.34	8.1	23.3	0.78
A7	07 Oct 2015	9	20.35	91.91	6.8	33.34	8.1	23.4	0.84
A7	07 Oct 2015	10	19.98	91.67	6.8	33.33	8.1	23.5	0.81
A7	07 Oct 2015	11	19.60	91.85	7.0	33.32	8.1	23.6	0.81
A7	07 Oct 2015	12	19.41	91.71	7.0	33.32	8.1	23.6	0.81
A7	07 Oct 2015	13	19.34	91.72	7.0	33.32	8.1	23.7	0.82
A7	07 Oct 2015	14	19.30	91.87	7.0	33.33	8.1	23.7	0.82
A7	07 Oct 2015	15	19.26	91.98	7.0	33.33	8.1	23.7	0.81
A7	07 Oct 2015	16	19.16	92.01	6.9	33.32	8.1	23.7	0.79
A7	07 Oct 2015	17	19.03	91.97	6.9	33.32	8.1	23.7	0.80
A7	07 Oct 2015	18	18.89	91.90	6.8	33.32	8.1	23.8	0.74
A7	07 Oct 2015	19	18.66	91.95	6.8	33.31	8.1	23.8	0.76
A7	13 Oct 2015	1	21.53	90.84	7.3	33.37	8.2	23.1	0.90
A7	13 Oct 2015	2	21.52	90.83	7.3	33.37	8.2	23.1	0.93
A7	13 Oct 2015	3	21.50	90.88	7.3	33.37	8.2	23.1	0.98
A7	13 Oct 2015	4	21.46	90.90	7.3	33.36	8.2	23.1	1.01
A7	13 Oct 2015	5	21.41	90.97	7.3	33.36	8.2	23.1	1.05
A7	13 Oct 2015	6	21.37	90.92	7.2	33.37	8.2	23.1	1.04
A7	13 Oct 2015	7	21.35	90.95	7.2	33.36	8.2	23.2	1.10
A7	13 Oct 2015	8	21.34	90.85	7.2	33.37	8.2	23.2	1.12
A7	13 Oct 2015	9	21.29	90.79	7.2	33.36	8.2	23.2	1.17
A7	13 Oct 2015	10	21.19	90.75	7.1	33.35	8.2	23.2	1.17
A7	13 Oct 2015	11	20.96	90.69	7.1	33.36	8.2	23.3	1.19
A7	13 Oct 2015	12	20.90	90.47	7.0	33.35	8.1	23.3	1.21
A7	13 Oct 2015	13	20.69	90.35	6.9	33.34	8.1	23.3	1.21
A7	13 Oct 2015	14	20.14	90.06	6.9	33.33	8.1	23.5	1.24
A7	13 Oct 2015	15	19.59	89.97	7.0	33.33	8.1	23.6	1.27
A7	13 Oct 2015	16	19.19	89.71	7.1	33.33	8.1	23.7	1.34
A7	13 Oct 2015	17	18.94	89.50	7.1	33.35	8.1	23.8	1.27
A7	13 Oct 2015	18	18.70	89.32	7.0	33.34	8.1	23.8	1.06
A7	13 Oct 2015	19	18.28	88.81	7.0	33.38	8.1	24.0	1.02
A7	13 Oct 2015	20	18.22	88.17	6.9	33.39	8.1	24.0	1.03
A7	24 Oct 2015	1	21.55	87.32	6.4	33.47	8.1	23.2	0.67
A7	24 Oct 2015	2	21.55	87.50	6.4	33.46	8.1	23.2	0.72
A7	24 Oct 2015	3	21.54	87.42	6.4	33.46	8.1	23.2	0.74
A7	24 Oct 2015	4	21.52	87.38	6.4	33.46	8.1	23.2	0.74
A7	24 Oct 2015	5	21.49	88.12	6.5	33.45	8.1	23.2	0.75
A7	24 Oct 2015	6	21.41	88.79	6.5	33.45	8.1	23.2	0.77
A7	24 Oct 2015	7	21.30	88.87	6.4	33.43	8.1	23.2	0.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
A7	24 Oct 2015	8	20.81	89.68	6.6	33.42	8.1	23.3	0.90
A7	24 Oct 2015	9	20.57	90.05	6.6	33.42	8.1	23.4	0.99
A7	24 Oct 2015	10	20.25	90.26	6.7	33.41	8.1	23.5	1.01
A7	24 Oct 2015	11	19.98	90.42	6.7	33.40	8.1	23.5	0.97
A7	24 Oct 2015	12	19.78	90.57	6.7	33.39	8.1	23.6	0.91
A7	24 Oct 2015	13	19.53	90.49	6.7	33.40	8.1	23.7	0.88
A7	24 Oct 2015	14	19.33	90.53	6.8	33.38	8.1	23.7	0.90
A7	24 Oct 2015	15	19.16	90.54	6.8	33.39	8.1	23.8	0.92
A7	24 Oct 2015	16	19.04	90.53	6.8	33.39	8.1	23.8	0.93
A7	24 Oct 2015	17	18.91	90.58	6.8	33.39	8.1	23.8	0.92
A7	24 Oct 2015	18	18.73	90.64	6.7	33.38	8.1	23.9	0.88
A7	24 Oct 2015	19	18.36	90.47	6.5	33.39	8.1	24.0	0.80
A7	24 Oct 2015	20	18.23	90.27	6.5	33.40	8.1	24.0	NA
A7	26 Oct 2015	1	22.05	92.13	6.7	33.50	8.1	23.1	0.66
A7	26 Oct 2015	2	21.96	92.20	6.8	33.50	8.1	23.1	0.73
A7	26 Oct 2015	3	21.89	92.18	6.8	33.49	8.1	23.1	0.82
A7	26 Oct 2015	4	21.80	91.84	6.8	33.49	8.1	23.1	0.91
A7	26 Oct 2015	5	21.76	91.56	6.8	33.48	8.1	23.1	0.94
A7	26 Oct 2015	6	21.74	91.44	6.8	33.48	8.1	23.1	0.96
A7	26 Oct 2015	7	21.72	89.06	6.7	33.48	8.1	23.1	0.97
A7	26 Oct 2015	8	21.56	90.75	6.5	33.47	8.1	23.2	1.12
A7	26 Oct 2015	9	21.03	90.89	6.3	33.42	8.1	23.3	1.17
A7	26 Oct 2015	10	20.54	90.02	6.3	33.40	8.1	23.4	1.19
A7	26 Oct 2015	11	19.99	89.45	6.4	33.41	8.1	23.5	1.31
A7	26 Oct 2015	12	19.62	89.35	6.4	33.39	8.1	23.6	1.35
A7	26 Oct 2015	13	19.28	89.34	6.5	33.38	8.1	23.7	1.27
A7	26 Oct 2015	14	19.10	89.10	6.5	33.40	8.1	23.8	1.30
A7	26 Oct 2015	15	19.00	88.98	6.4	33.40	8.1	23.8	1.14
A7	26 Oct 2015	16	18.92	88.85	6.3	33.40	8.1	23.8	1.00
A7	26 Oct 2015	17	18.84	88.28	6.2	33.40	8.1	23.8	0.95
A7	26 Oct 2015	18	18.73	87.65	6.1	33.40	8.0	23.9	0.89
A7	26 Oct 2015	19	18.65	86.79	6.1	33.40	8.0	23.9	0.83
A7	26 Oct 2015	20	18.60	85.83	6.0	33.41	8.0	23.9	0.82
C7	01 Oct 2015	1	21.77	91.36	7.2	33.37	8.2	23.0	0.47
C7	01 Oct 2015	2	21.53	91.36	7.3	33.34	8.2	23.1	0.51
C7	01 Oct 2015	3	20.94	91.33	7.4	33.34	8.2	23.2	0.59
C7	01 Oct 2015	4	20.57	91.57	7.4	33.33	8.2	23.3	0.74
C7	01 Oct 2015	5	19.97	91.64	7.4	33.31	8.2	23.5	0.91
C7	01 Oct 2015	6	19.45	91.54	7.5	33.32	8.2	23.6	1.08
C7	01 Oct 2015	7	19.20	91.33	7.4	33.32	8.2	23.7	1.20
C7	01 Oct 2015	8	18.89	91.31	7.3	33.30	8.2	23.8	1.24
C7	01 Oct 2015	9	18.56	91.12	7.2	33.31	8.2	23.8	1.21
C7	01 Oct 2015	10	18.37	91.18	7.1	33.32	8.2	23.9	1.09
C7	01 Oct 2015	11	18.15	91.39	7.0	33.31	8.1	23.9	1.00
C7	01 Oct 2015	12	17.89	91.59	6.9	33.31	8.1	24.0	0.95
C7	01 Oct 2015	13	17.62	91.57	7.0	33.31	8.1	24.1	0.92
C7	01 Oct 2015	14	17.46	91.59	7.1	33.31	8.1	24.1	0.94
C7	01 Oct 2015	15	17.09	91.61	7.3	33.29	8.1	24.2	0.99
C7	01 Oct 2015	16	16.90	91.75	7.4	33.29	8.2	24.2	1.01
C7	01 Oct 2015	17	16.79	91.91	7.4	33.28	8.2	24.2	0.99
C7	01 Oct 2015	18	16.74	91.92	7.4	33.27	8.2	24.2	0.96
C7	01 Oct 2015	19	16.72	91.88	7.4	33.28	8.2	24.3	0.93

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	07 Oct 2015	1	21.59	91.26	6.9	33.38	8.1	23.1	0.45
C7	07 Oct 2015	2	21.58	91.03	6.8	33.38	8.1	23.1	0.49
C7	07 Oct 2015	3	21.57	91.12	6.9	33.38	8.1	23.1	0.57
C7	07 Oct 2015	4	21.56	91.44	6.8	33.38	8.1	23.1	0.60
C7	07 Oct 2015	5	21.55	91.44	6.8	33.37	8.1	23.1	0.63
C7	07 Oct 2015	6	21.41	91.33	6.8	33.36	8.1	23.1	0.71
C7	07 Oct 2015	7	21.20	91.38	6.8	33.35	8.1	23.2	0.80
C7	07 Oct 2015	8	20.93	91.34	6.6	33.33	8.1	23.2	0.83
C7	07 Oct 2015	9	20.56	90.90	6.8	33.33	8.1	23.3	0.80
C7	07 Oct 2015	10	20.17	90.72	7.0	33.33	8.1	23.4	0.77
C7	07 Oct 2015	11	19.94	91.03	7.1	33.33	8.1	23.5	0.81
C7	07 Oct 2015	12	19.75	91.76	7.1	33.32	8.1	23.5	0.79
C7	07 Oct 2015	13	19.58	92.45	7.1	33.32	8.1	23.6	0.79
C7	07 Oct 2015	14	19.45	92.53	7.1	33.32	8.1	23.6	0.79
C7	07 Oct 2015	15	19.31	92.57	7.1	33.32	8.1	23.7	0.76
C7	07 Oct 2015	16	19.13	92.55	6.9	33.30	8.1	23.7	0.77
C7	07 Oct 2015	17	18.68	92.54	6.7	33.29	8.1	23.8	0.71
C7	07 Oct 2015	18	18.30	91.85	6.6	33.30	8.1	23.9	0.65
C7	13 Oct 2015	1	21.78	89.14	7.3	33.37	8.2	23.0	0.86
C7	13 Oct 2015	2	21.77	89.20	7.3	33.37	8.2	23.0	0.88
C7	13 Oct 2015	3	21.75	89.41	7.3	33.37	8.2	23.0	1.00
C7	13 Oct 2015	4	21.72	89.41	7.3	33.37	8.2	23.1	1.04
C7	13 Oct 2015	5	21.64	89.30	7.2	33.36	8.2	23.1	1.10
C7	13 Oct 2015	6	21.47	89.33	7.2	33.35	8.2	23.1	1.22
C7	13 Oct 2015	7	21.20	89.36	7.1	33.35	8.2	23.2	1.31
C7	13 Oct 2015	8	20.84	89.46	7.0	33.34	8.1	23.3	1.40
C7	13 Oct 2015	9	20.50	89.65	6.9	33.34	8.1	23.4	1.42
C7	13 Oct 2015	10	20.14	89.78	6.8	33.34	8.1	23.5	1.41
C7	13 Oct 2015	11	19.87	89.81	6.8	33.34	8.1	23.5	1.35
C7	13 Oct 2015	12	19.65	89.43	6.7	33.35	8.1	23.6	1.29
C7	13 Oct 2015	13	19.55	88.09	6.7	33.35	8.1	23.6	1.29
C7	13 Oct 2015	14	19.37	88.12	6.8	33.34	8.1	23.7	1.18
C7	13 Oct 2015	15	19.14	88.68	6.8	33.34	8.1	23.7	1.06
C7	13 Oct 2015	16	18.87	89.00	7.0	33.35	8.1	23.8	1.02
C7	13 Oct 2015	17	18.69	89.19	7.1	33.37	8.1	23.8	0.96
C7	13 Oct 2015	18	18.66	88.64	7.1	33.37	8.1	23.9	0.80
C7	13 Oct 2015	19	18.66	87.36	7.0	33.37	8.1	23.9	0.78
C7	24 Oct 2015	1	21.99	92.55	6.7	33.48	8.1	23.1	0.51
C7	24 Oct 2015	2	21.98	92.53	6.8	33.48	8.1	23.1	0.56
C7	24 Oct 2015	3	21.97	92.72	6.8	33.48	8.1	23.1	0.60
C7	24 Oct 2015	4	21.96	92.74	6.8	33.48	8.1	23.1	0.62
C7	24 Oct 2015	5	21.96	92.50	6.8	33.48	8.1	23.1	0.64
C7	24 Oct 2015	6	21.94	91.99	6.7	33.47	8.1	23.1	0.66
C7	24 Oct 2015	7	21.69	92.48	6.7	33.46	8.1	23.1	0.74
C7	24 Oct 2015	8	21.34	92.40	6.7	33.40	8.1	23.2	0.85
C7	24 Oct 2015	9	20.52	92.07	6.7	33.41	8.1	23.4	1.01
C7	24 Oct 2015	10	20.47	91.82	6.7	33.38	8.1	23.4	1.03
C7	24 Oct 2015	11	19.65	91.68	6.7	33.37	8.1	23.6	1.03
C7	24 Oct 2015	12	19.33	91.37	6.8	33.39	8.1	23.7	1.01
C7	24 Oct 2015	13	19.40	91.26	6.7	33.37	8.1	23.7	0.99
C7	24 Oct 2015	14	18.98	91.12	6.8	33.38	8.1	23.8	0.93
C7	24 Oct 2015	15	18.93	90.83	6.8	33.37	8.1	23.8	0.92
C7	24 Oct 2015	16	18.59	90.62	6.7	33.38	8.1	23.9	0.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C7	24 Oct 2015	17	18.47	90.03	6.7	33.39	8.1	23.9	0.76
C7	24 Oct 2015	18	18.45	88.82	6.7	33.39	8.1	23.9	0.75
C7	26 Oct 2015	1	22.39	93.23	6.9	33.52	8.2	23.0	0.28
C7	26 Oct 2015	2	22.36	93.23	6.8	33.52	8.2	23.0	0.30
C7	26 Oct 2015	3	22.33	93.41	6.9	33.52	8.2	23.0	0.32
C7	26 Oct 2015	4	22.30	93.36	6.9	33.52	8.2	23.0	0.36
C7	26 Oct 2015	5	22.25	93.28	6.9	33.51	8.2	23.0	0.43
C7	26 Oct 2015	6	22.17	93.23	6.9	33.51	8.2	23.0	0.50
C7	26 Oct 2015	7	22.08	93.08	6.9	33.50	8.2	23.1	0.59
C7	26 Oct 2015	8	21.91	92.87	6.9	33.48	8.2	23.1	0.71
C7	26 Oct 2015	9	21.52	92.45	6.9	33.46	8.1	23.2	0.83
C7	26 Oct 2015	10	21.15	92.11	6.9	33.44	8.1	23.3	0.91
C7	26 Oct 2015	11	20.56	91.91	7.1	33.40	8.1	23.4	0.97
C7	26 Oct 2015	12	20.11	91.71	7.1	33.41	8.1	23.5	1.02
C7	26 Oct 2015	13	19.84	91.74	7.0	33.39	8.1	23.6	1.04
C7	26 Oct 2015	14	19.40	91.76	6.9	33.38	8.1	23.7	1.02
C7	26 Oct 2015	15	19.06	91.58	6.8	33.39	8.1	23.8	0.95
C7	26 Oct 2015	16	18.74	91.47	6.6	33.37	8.1	23.8	0.91
C7	26 Oct 2015	17	18.32	91.23	6.5	33.38	8.1	24.0	0.83
C7	26 Oct 2015	18	17.88	90.97	6.3	33.37	8.1	24.1	0.79
C7	26 Oct 2015	19	17.57	90.63	6.2	33.40	8.1	24.1	0.72
C8	01 Oct 2015	1	21.71	89.67	7.0	33.36	8.2	23.1	0.51
C8	01 Oct 2015	2	21.23	90.17	7.1	33.34	8.2	23.2	0.51
C8	01 Oct 2015	3	20.60	90.96	7.3	33.34	8.2	23.3	0.57
C8	01 Oct 2015	4	20.19	91.18	7.5	33.31	8.2	23.4	0.59
C8	01 Oct 2015	5	19.62	91.40	7.6	33.31	8.2	23.6	0.61
C8	01 Oct 2015	6	19.32	91.65	7.6	33.32	8.2	23.7	0.69
C8	01 Oct 2015	7	19.20	91.70	7.5	33.31	8.2	23.7	0.78
C8	01 Oct 2015	8	18.88	91.61	7.3	33.31	8.2	23.8	0.89
C8	01 Oct 2015	9	18.67	91.37	7.0	33.32	8.2	23.8	0.99
C8	01 Oct 2015	10	18.50	90.66	7.0	33.31	8.1	23.9	1.08
C8	01 Oct 2015	11	18.09	90.31	7.1	33.31	8.2	24.0	1.13
C8	01 Oct 2015	12	17.87	90.82	7.1	33.31	8.2	24.0	1.11
C8	01 Oct 2015	13	17.64	90.85	6.9	33.30	8.1	24.1	1.04
C8	01 Oct 2015	14	17.49	90.75	6.8	33.32	8.1	24.1	0.99
C8	01 Oct 2015	15	17.43	90.77	6.7	33.32	8.1	24.1	0.91
C8	01 Oct 2015	16	17.34	90.38	6.6	33.32	8.1	24.1	0.82
C8	01 Oct 2015	17	17.29	89.97	6.5	33.32	8.1	24.2	0.82
C8	01 Oct 2015	18	17.13	89.79	6.8	33.31	8.1	24.2	0.91
C8	01 Oct 2015	19	16.84	89.99	7.2	33.31	8.1	24.3	1.07
C8	01 Oct 2015	20	16.80	90.58	7.2	33.32	8.2	24.3	1.11
C8	07 Oct 2015	1	21.81	90.42	6.9	33.35	8.1	23.0	0.42
C8	07 Oct 2015	2	21.85	90.02	6.8	33.39	8.1	23.0	0.39
C8	07 Oct 2015	3	21.84	90.76	6.9	33.40	8.1	23.0	0.38
C8	07 Oct 2015	4	21.84	92.33	6.9	33.41	8.1	23.1	0.40
C8	07 Oct 2015	5	21.76	93.22	6.8	33.39	8.1	23.1	0.44
C8	07 Oct 2015	6	21.62	93.21	6.7	33.37	8.1	23.1	0.51
C8	07 Oct 2015	7	21.05	92.85	6.5	33.33	8.1	23.2	0.68
C8	07 Oct 2015	8	20.51	92.02	6.5	33.34	8.1	23.4	0.80
C8	07 Oct 2015	9	20.47	91.12	6.5	33.34	8.1	23.4	0.79
C8	07 Oct 2015	10	20.43	90.60	6.5	33.34	8.1	23.4	0.74
C8	07 Oct 2015	11	20.19	90.93	6.5	33.32	8.1	23.4	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	07 Oct 2015	12	19.51	91.05	6.8	33.31	8.1	23.6	0.77
C8	07 Oct 2015	13	19.21	91.28	7.0	33.32	8.1	23.7	0.76
C8	07 Oct 2015	14	19.13	91.35	7.0	33.31	8.1	23.7	0.78
C8	07 Oct 2015	15	19.07	91.87	7.0	33.31	8.1	23.7	0.83
C8	07 Oct 2015	16	18.84	91.93	7.0	33.29	8.1	23.8	0.85
C8	07 Oct 2015	17	18.47	91.49	7.1	33.30	8.1	23.9	0.90
C8	07 Oct 2015	18	18.20	90.91	7.2	33.29	8.1	23.9	0.94
C8	07 Oct 2015	19	17.99	91.23	7.2	33.30	8.1	24.0	0.97
C8	07 Oct 2015	20	17.99	91.19	7.3	33.30	8.1	24.0	0.90
C8	13 Oct 2015	1	21.71	90.37	7.4	33.37	8.2	23.1	0.74
C8	13 Oct 2015	2	21.70	90.27	7.4	33.37	8.2	23.1	0.78
C8	13 Oct 2015	3	21.69	90.46	7.4	33.37	8.2	23.1	0.82
C8	13 Oct 2015	4	21.66	90.49	7.4	33.37	8.2	23.1	0.91
C8	13 Oct 2015	5	21.54	90.57	7.4	33.36	8.2	23.1	1.00
C8	13 Oct 2015	6	21.42	90.41	7.3	33.36	8.2	23.1	1.06
C8	13 Oct 2015	7	21.30	90.52	7.3	33.35	8.2	23.2	1.10
C8	13 Oct 2015	8	21.16	90.66	7.2	33.34	8.2	23.2	1.16
C8	13 Oct 2015	9	20.86	90.53	7.0	33.34	8.2	23.3	1.26
C8	13 Oct 2015	10	20.46	90.49	6.2	33.33	8.1	23.4	1.47
C8	13 Oct 2015	11	20.01	90.11	5.7	33.34	8.1	23.5	1.40
C8	13 Oct 2015	12	19.67	88.26	5.5	33.34	8.0	23.6	1.10
C8	13 Oct 2015	13	19.38	86.85	6.0	33.35	8.0	23.7	1.02
C8	13 Oct 2015	14	19.26	86.43	6.4	33.34	8.1	23.7	1.02
C8	13 Oct 2015	15	19.16	86.72	6.7	33.34	8.1	23.7	1.02
C8	13 Oct 2015	16	19.08	87.39	6.7	33.34	8.1	23.7	1.09
C8	13 Oct 2015	17	18.93	87.39	6.8	33.33	8.1	23.8	1.04
C8	13 Oct 2015	18	18.58	87.67	7.0	33.36	8.1	23.9	0.98
C8	13 Oct 2015	19	18.48	87.60	7.1	33.37	8.1	23.9	0.99
C8	13 Oct 2015	20	18.46	88.37	7.2	33.38	8.1	23.9	0.96
C8	24 Oct 2015	1	21.91	89.73	6.8	33.47	8.1	23.1	0.71
C8	24 Oct 2015	2	21.91	89.72	6.8	33.47	8.1	23.1	0.76
C8	24 Oct 2015	3	21.90	89.67	6.8	33.47	8.1	23.1	0.79
C8	24 Oct 2015	4	21.90	89.43	6.8	33.47	8.1	23.1	0.83
C8	24 Oct 2015	5	21.90	89.41	6.8	33.47	8.1	23.1	0.87
C8	24 Oct 2015	6	21.88	89.33	6.8	33.47	8.1	23.1	0.87
C8	24 Oct 2015	7	21.79	89.31	6.8	33.45	8.1	23.1	0.83
C8	24 Oct 2015	8	21.48	89.75	6.9	33.44	8.1	23.2	0.80
C8	24 Oct 2015	9	21.09	90.41	7.0	33.42	8.1	23.3	0.79
C8	24 Oct 2015	10	20.27	90.57	7.1	33.39	8.1	23.5	0.83
C8	24 Oct 2015	11	19.75	91.43	7.0	33.37	8.1	23.6	0.92
C8	24 Oct 2015	12	19.44	91.80	7.0	33.39	8.1	23.7	0.95
C8	24 Oct 2015	13	19.31	89.92	7.0	33.39	8.1	23.7	0.99
C8	24 Oct 2015	14	19.27	88.45	7.1	33.39	8.1	23.7	1.00
C8	24 Oct 2015	15	19.23	88.80	7.1	33.39	8.1	23.7	1.08
C8	24 Oct 2015	16	19.18	88.97	7.1	33.40	8.1	23.8	1.10
C8	24 Oct 2015	17	19.01	89.72	7.0	33.38	8.1	23.8	1.11
C8	24 Oct 2015	18	18.70	89.76	7.0	33.39	8.1	23.9	1.10
C8	24 Oct 2015	19	18.65	88.27	7.0	33.39	8.1	23.9	1.08
C8	26 Oct 2015	1	22.28	92.53	6.8	33.52	8.2	23.0	0.32
C8	26 Oct 2015	2	22.27	92.61	6.8	33.52	8.2	23.0	0.32
C8	26 Oct 2015	3	22.25	92.90	6.8	33.52	8.2	23.0	0.33
C8	26 Oct 2015	4	22.24	93.03	6.8	33.52	8.2	23.0	0.33

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
C8	26 Oct 2015	5	22.23	93.10	6.8	33.52	8.2	23.0	0.34
C8	26 Oct 2015	6	22.15	93.08	6.8	33.50	8.2	23.0	0.41
C8	26 Oct 2015	7	21.89	92.99	6.7	33.49	8.2	23.1	0.56
C8	26 Oct 2015	8	21.66	92.95	6.7	33.46	8.1	23.1	0.71
C8	26 Oct 2015	9	21.13	92.24	6.7	33.44	8.1	23.3	0.90
C8	26 Oct 2015	10	20.65	91.92	6.7	33.43	8.1	23.4	1.03
C8	26 Oct 2015	11	20.16	90.51	6.8	33.42	8.1	23.5	1.06
C8	26 Oct 2015	12	19.86	89.99	6.6	33.40	8.1	23.6	1.00
C8	26 Oct 2015	13	19.37	90.26	6.3	33.39	8.1	23.7	0.90
C8	26 Oct 2015	14	18.98	90.10	6.4	33.39	8.1	23.8	0.86
C8	26 Oct 2015	15	18.55	88.47	6.5	33.39	8.1	23.9	0.93
C8	26 Oct 2015	16	18.13	87.45	6.6	33.38	8.1	24.0	0.94
C8	26 Oct 2015	17	17.96	88.77	6.6	33.39	8.1	24.1	0.91
C8	26 Oct 2015	18	17.70	89.14	6.5	33.39	8.1	24.1	0.90
C8	26 Oct 2015	19	17.53	86.63	6.5	33.40	8.1	24.2	1.01

NA = not available

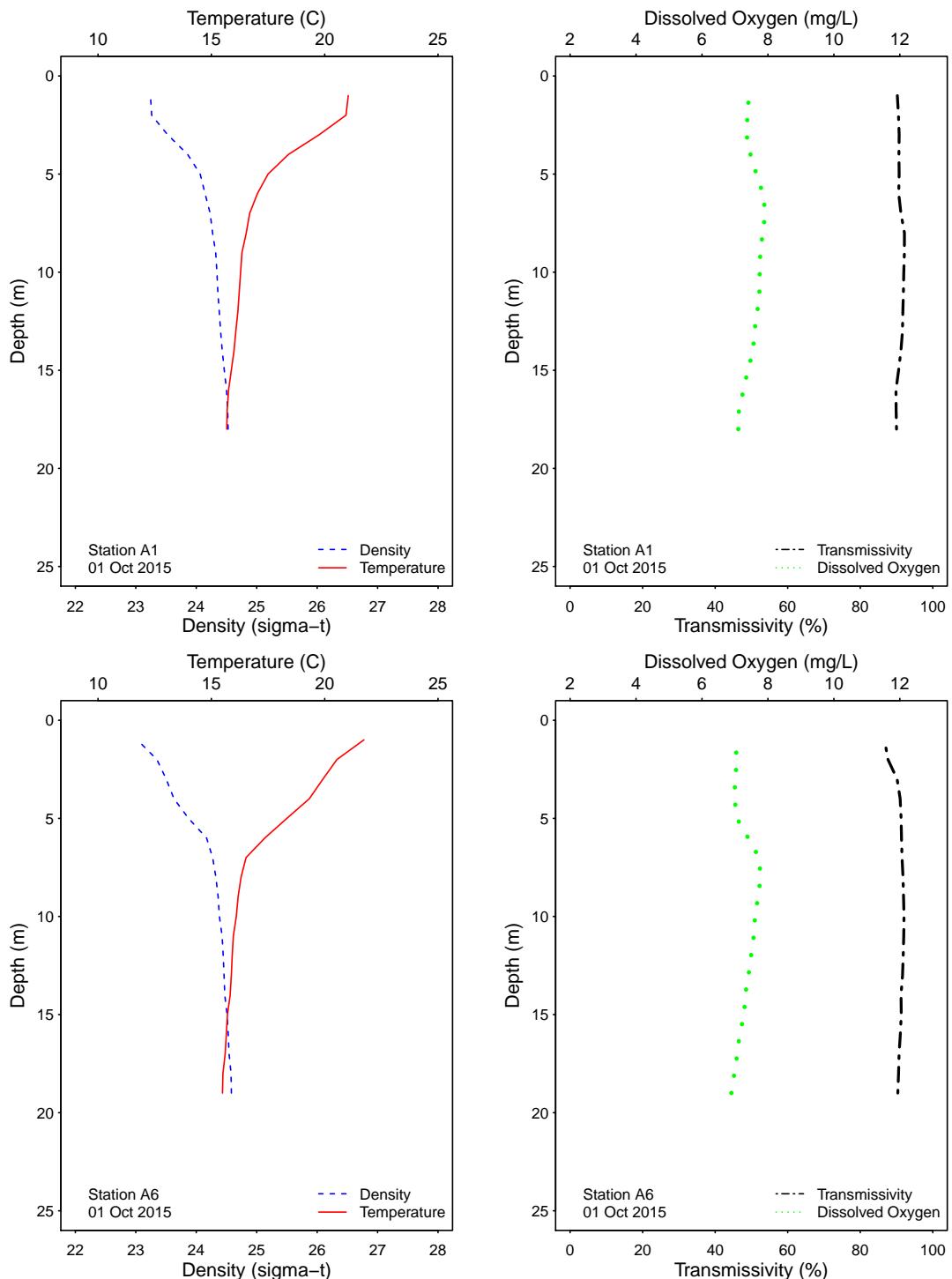


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

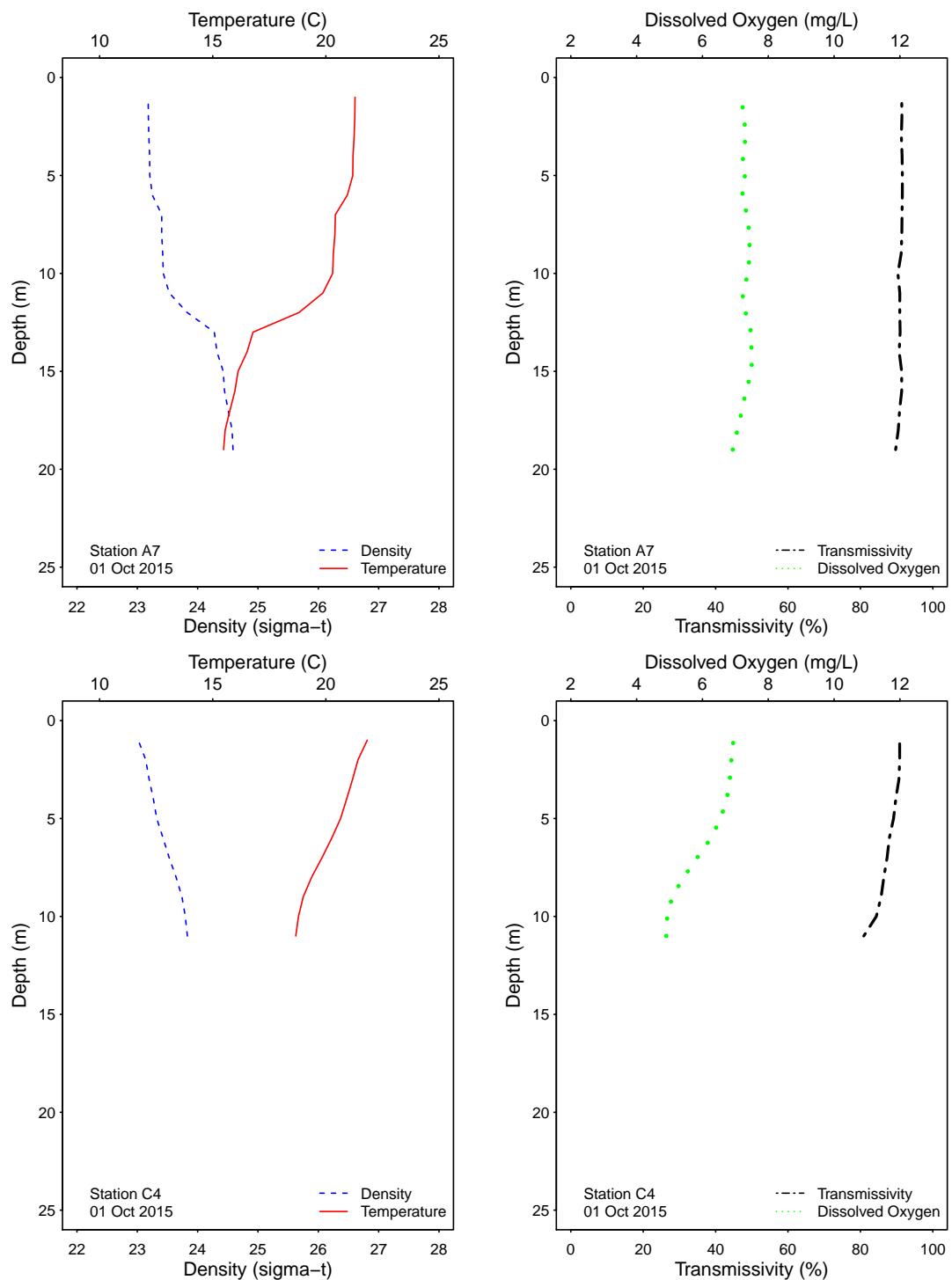


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

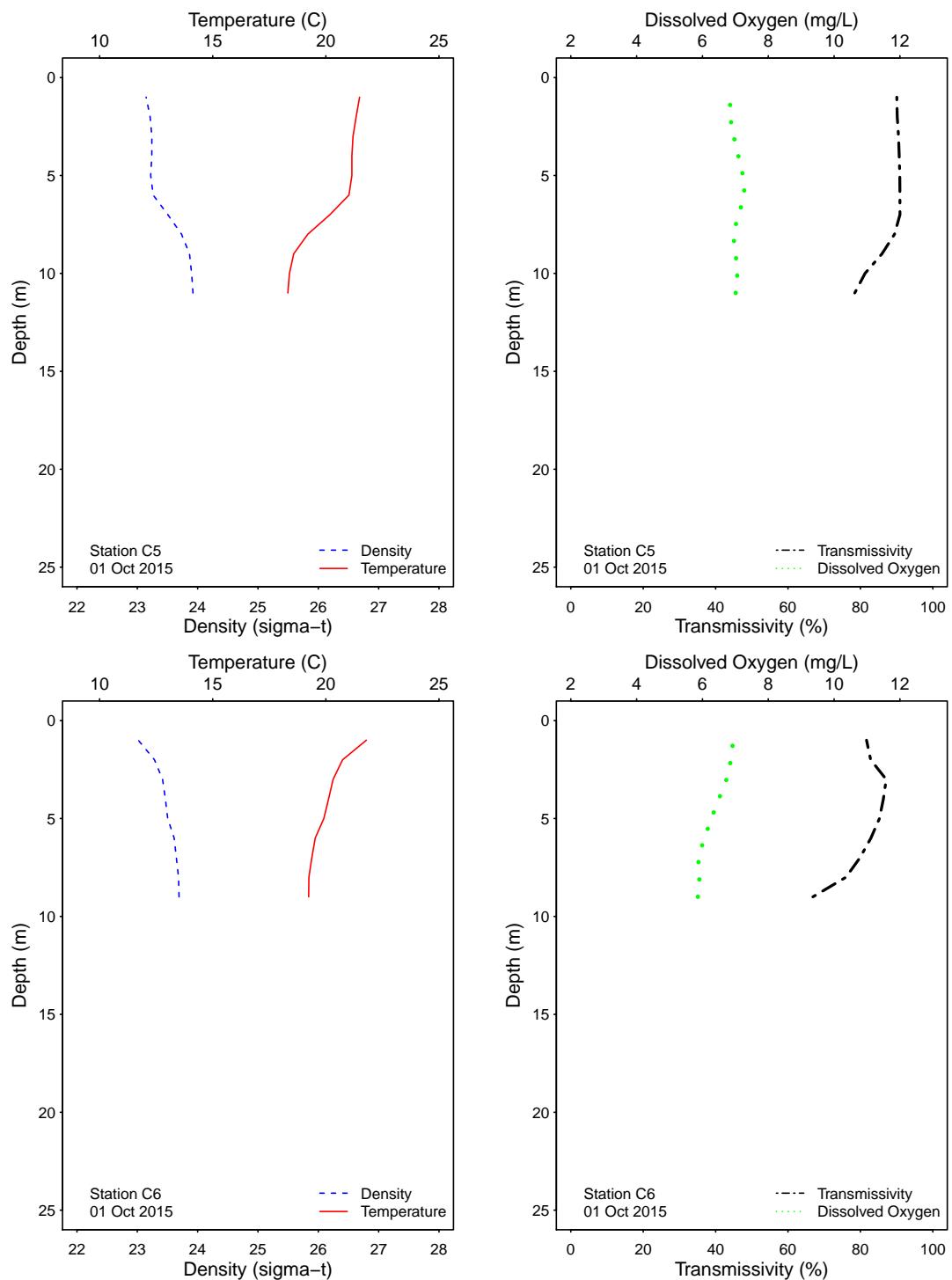


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

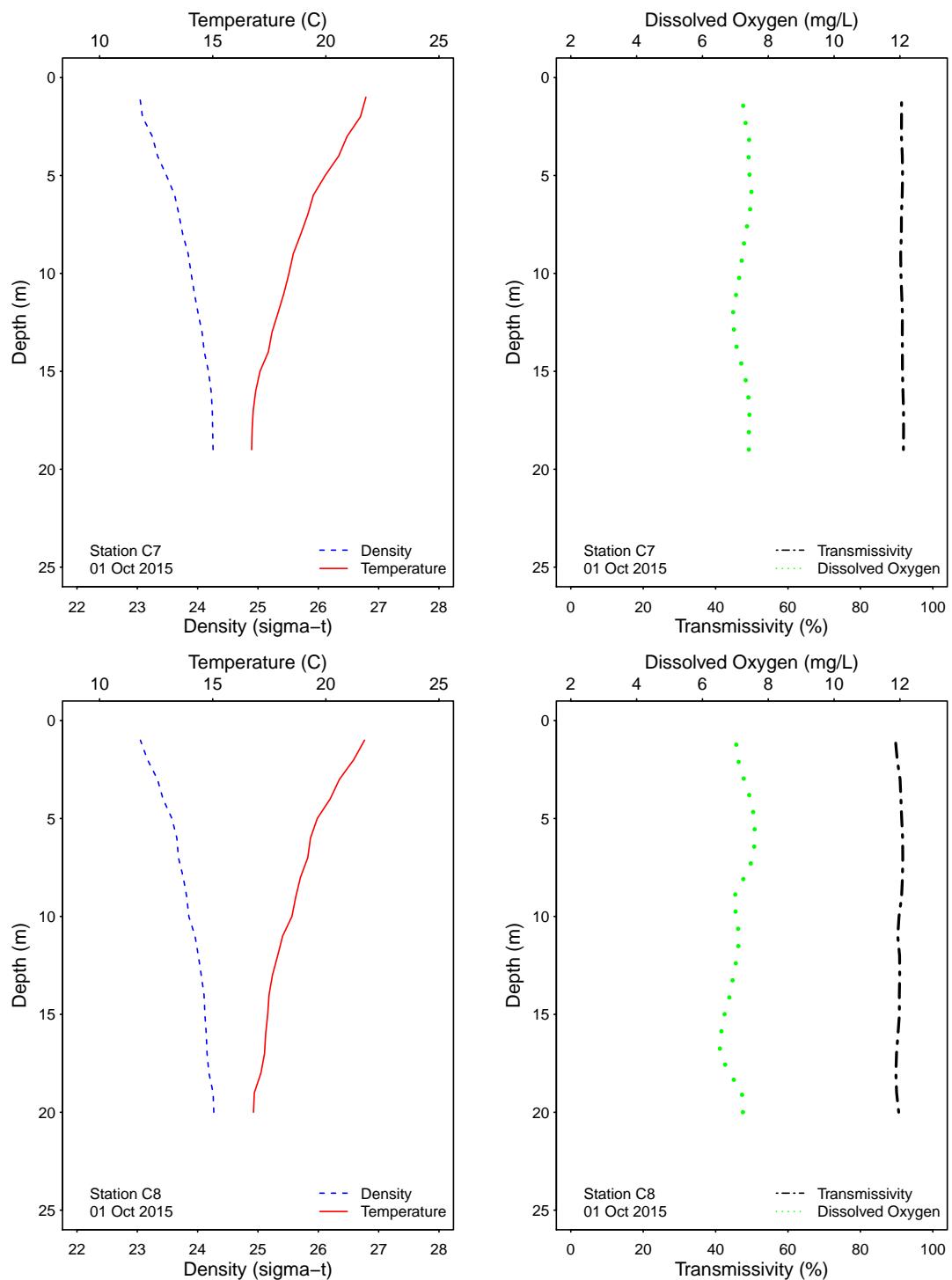


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

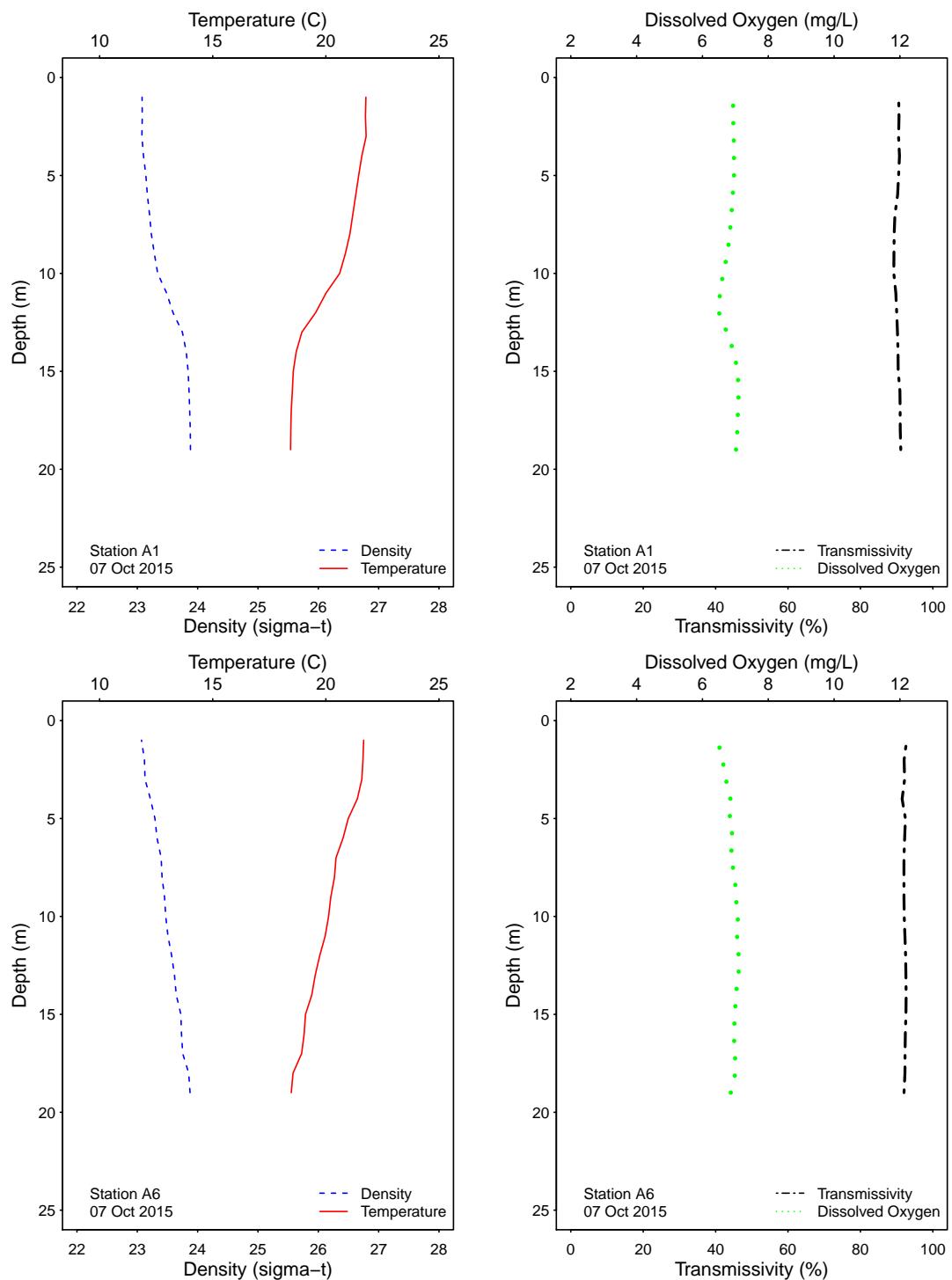


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

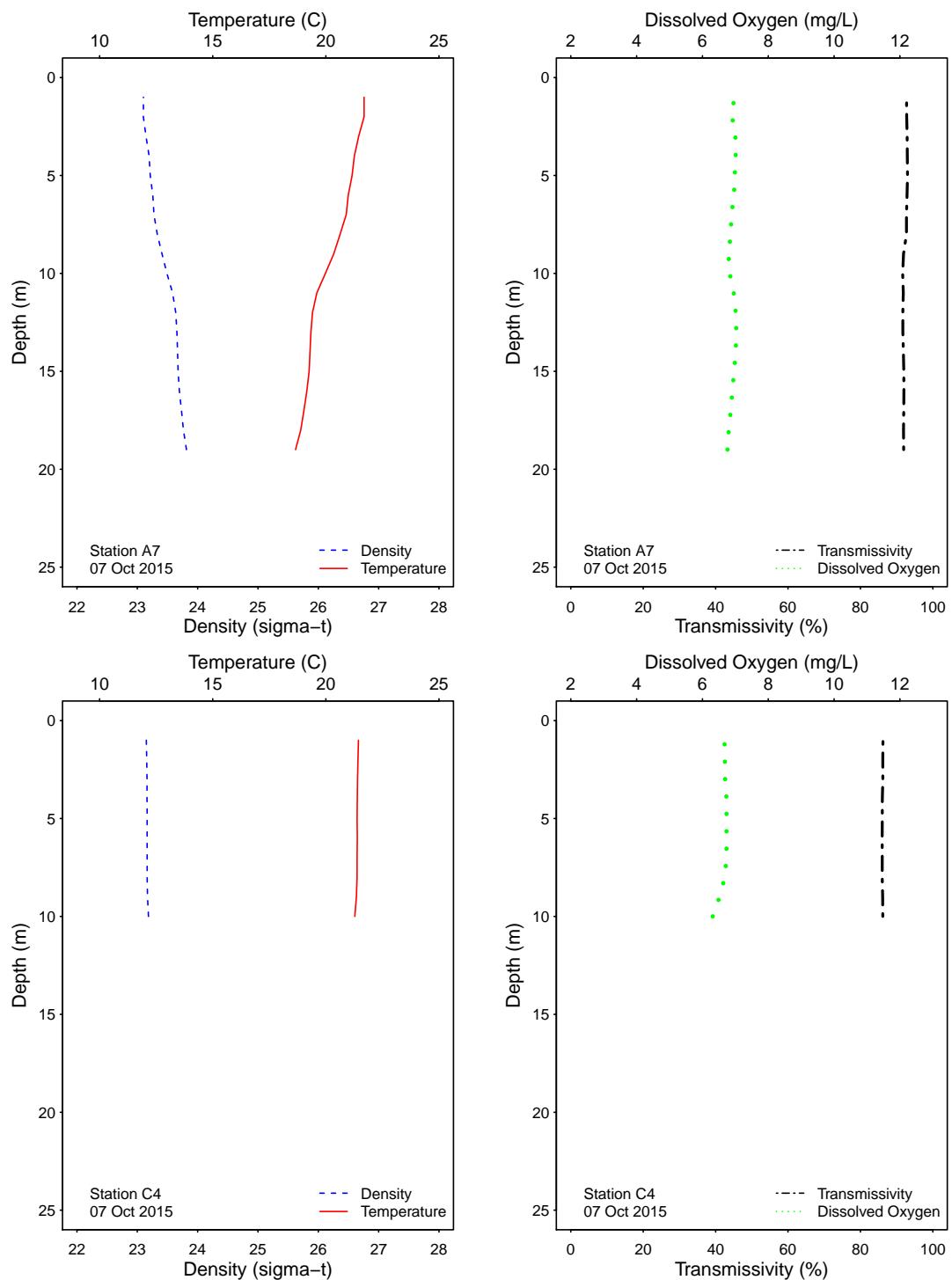


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

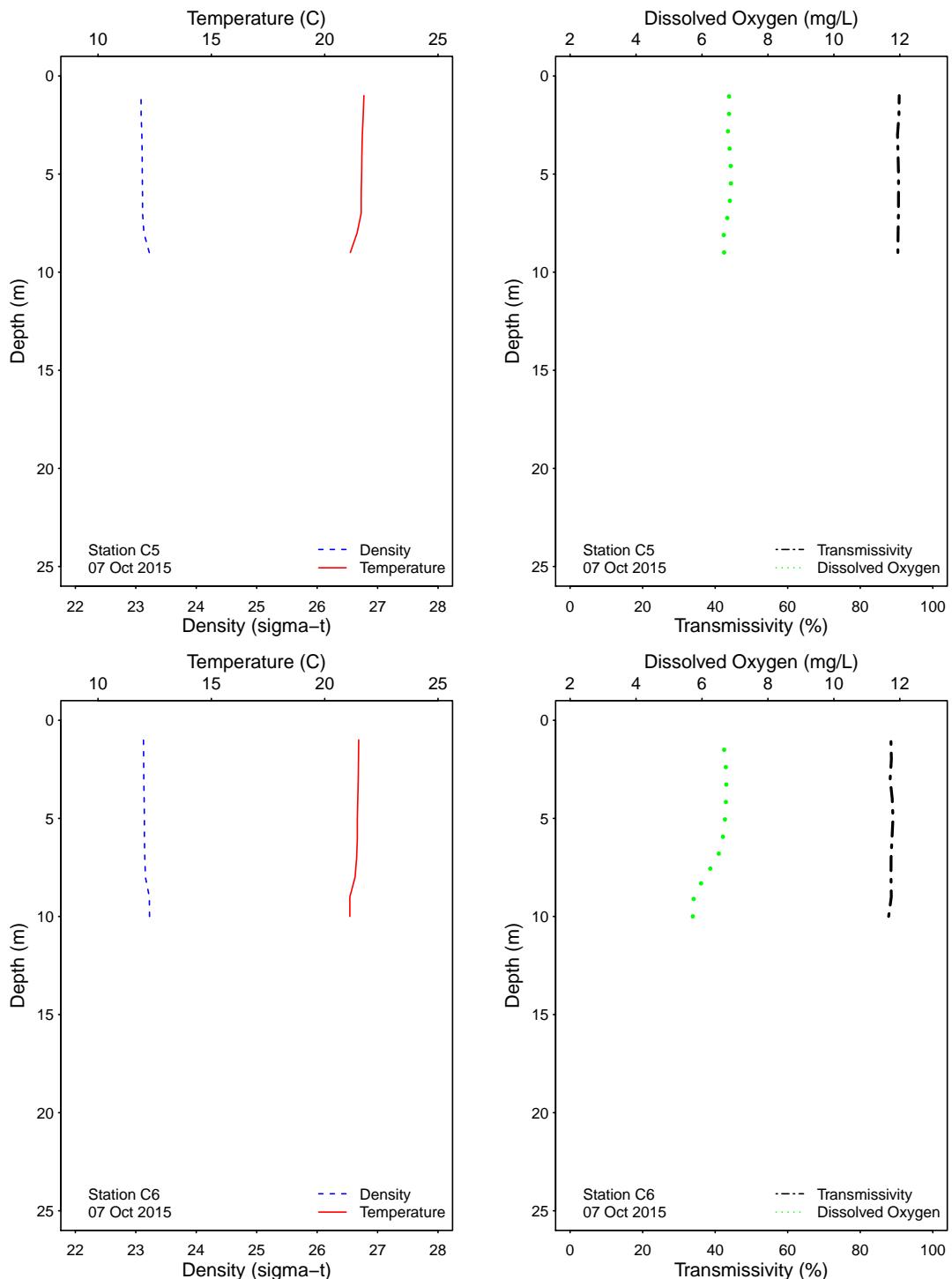


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

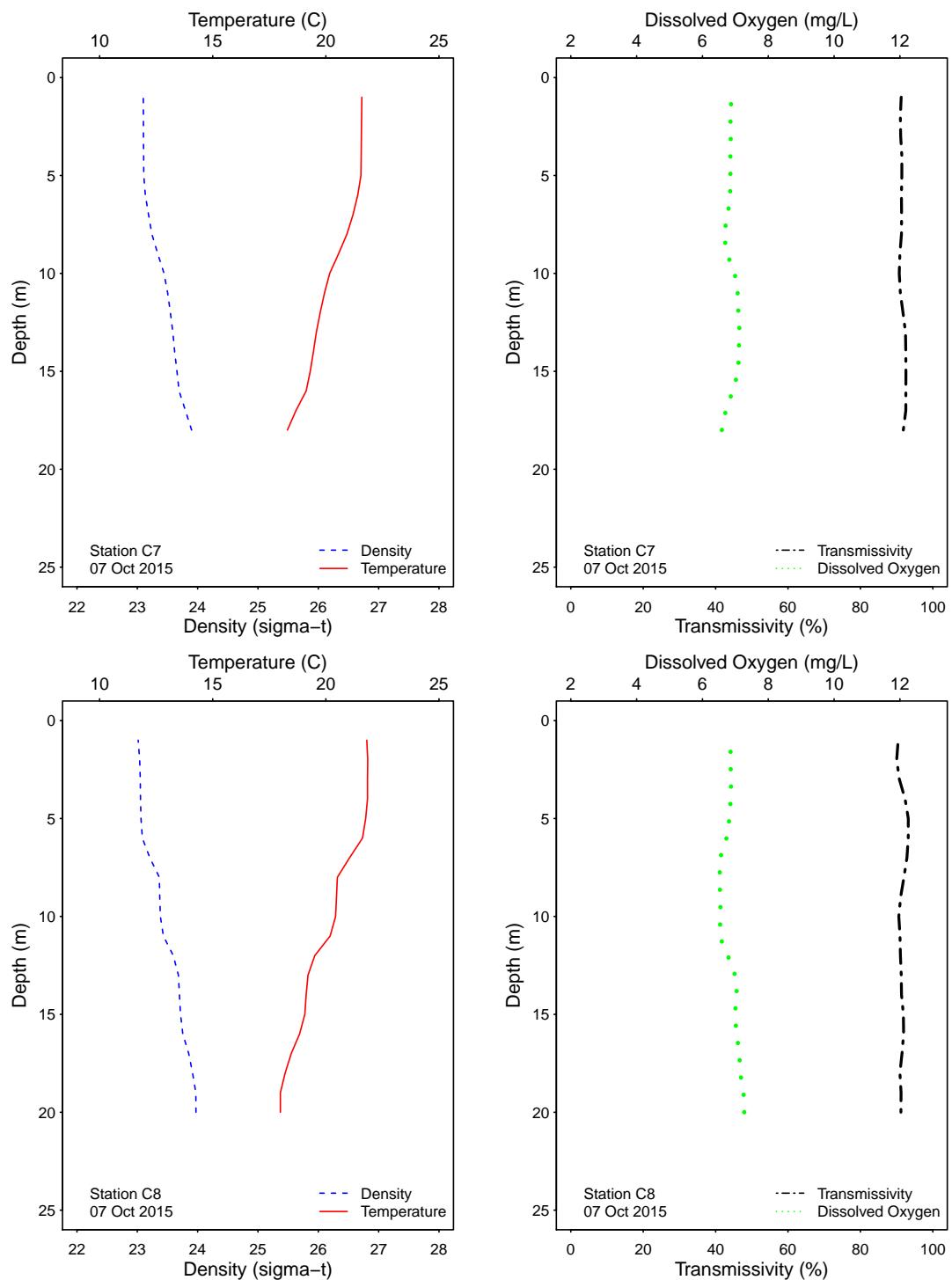


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

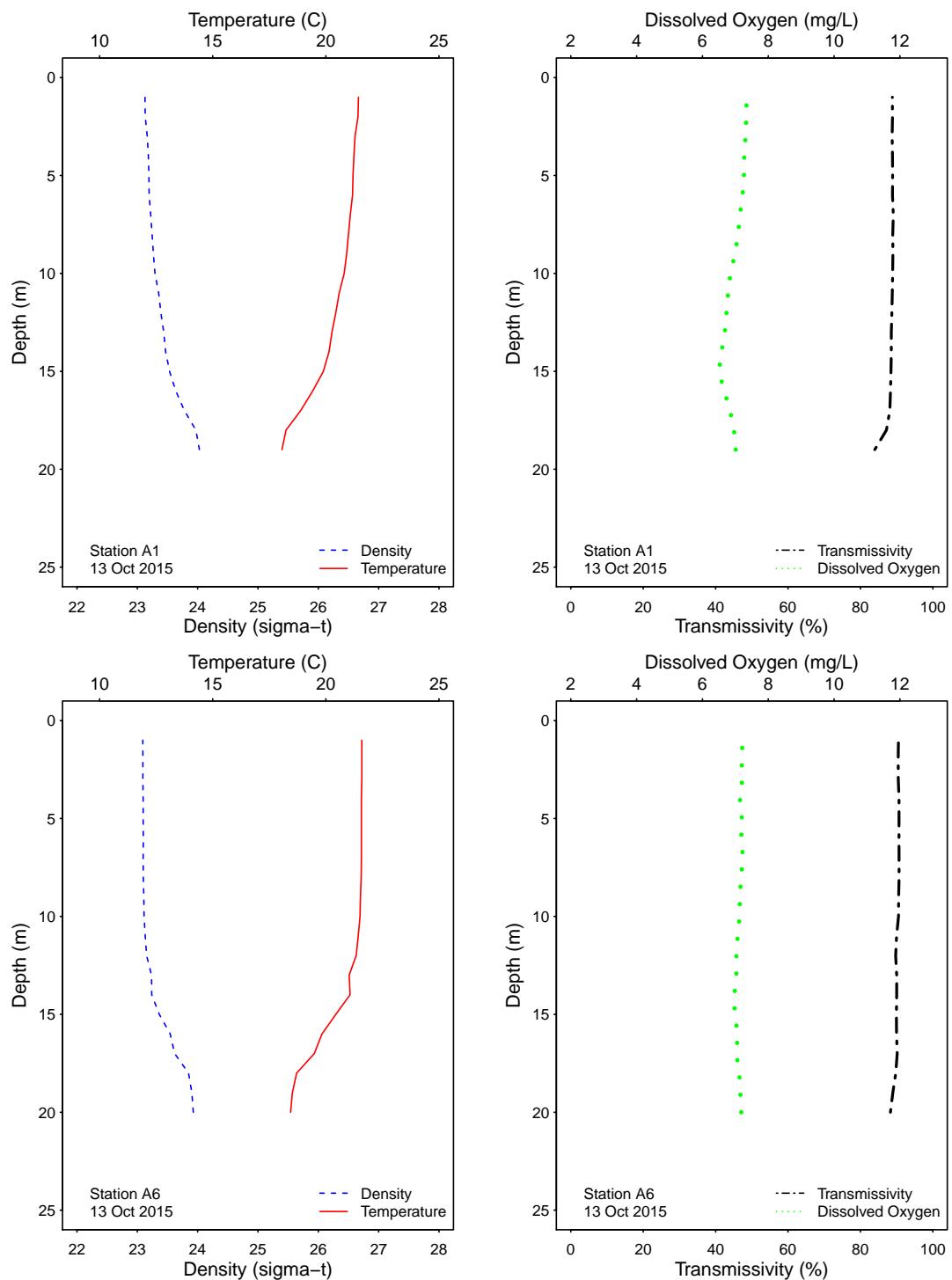


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

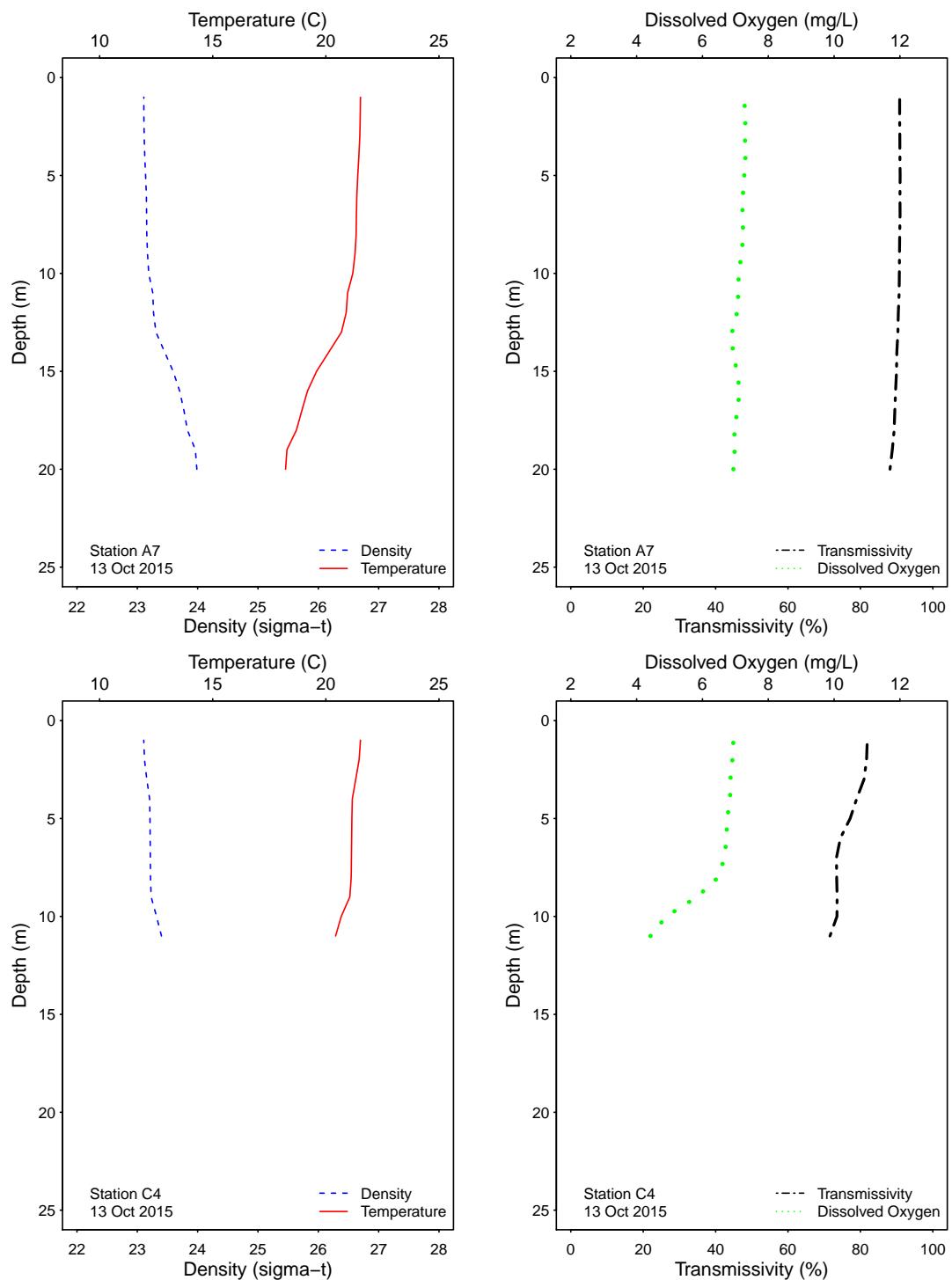


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

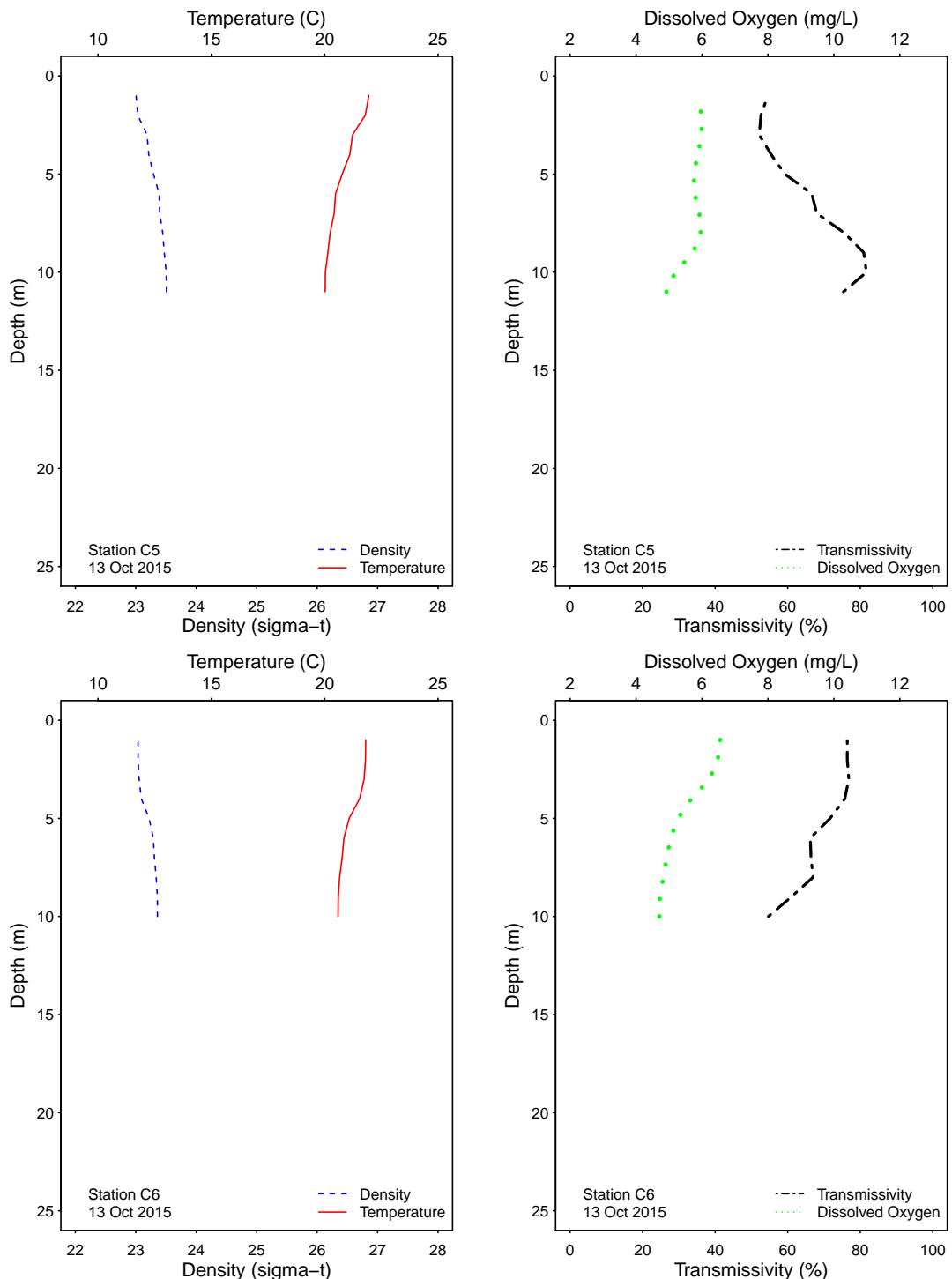


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

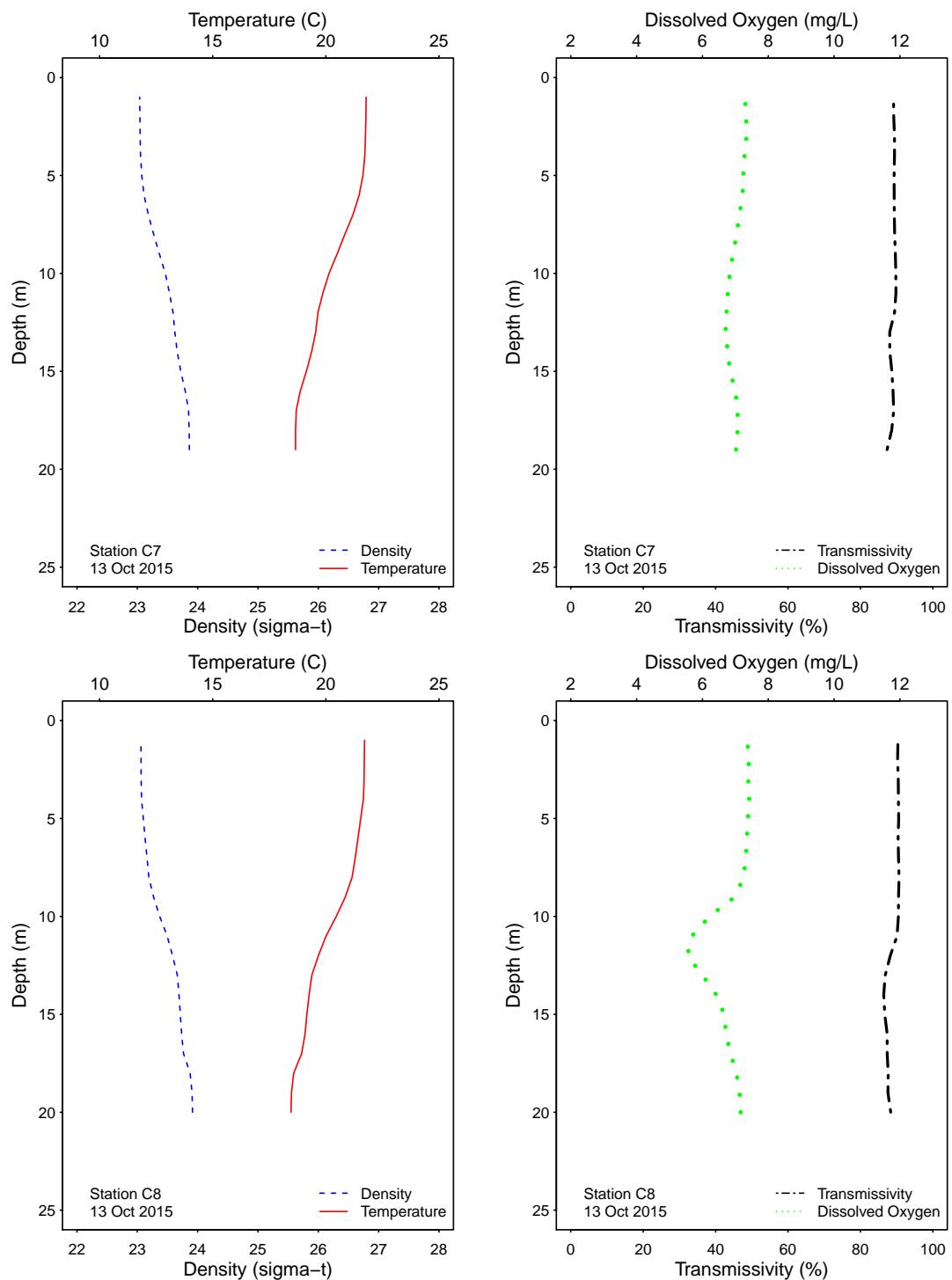


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

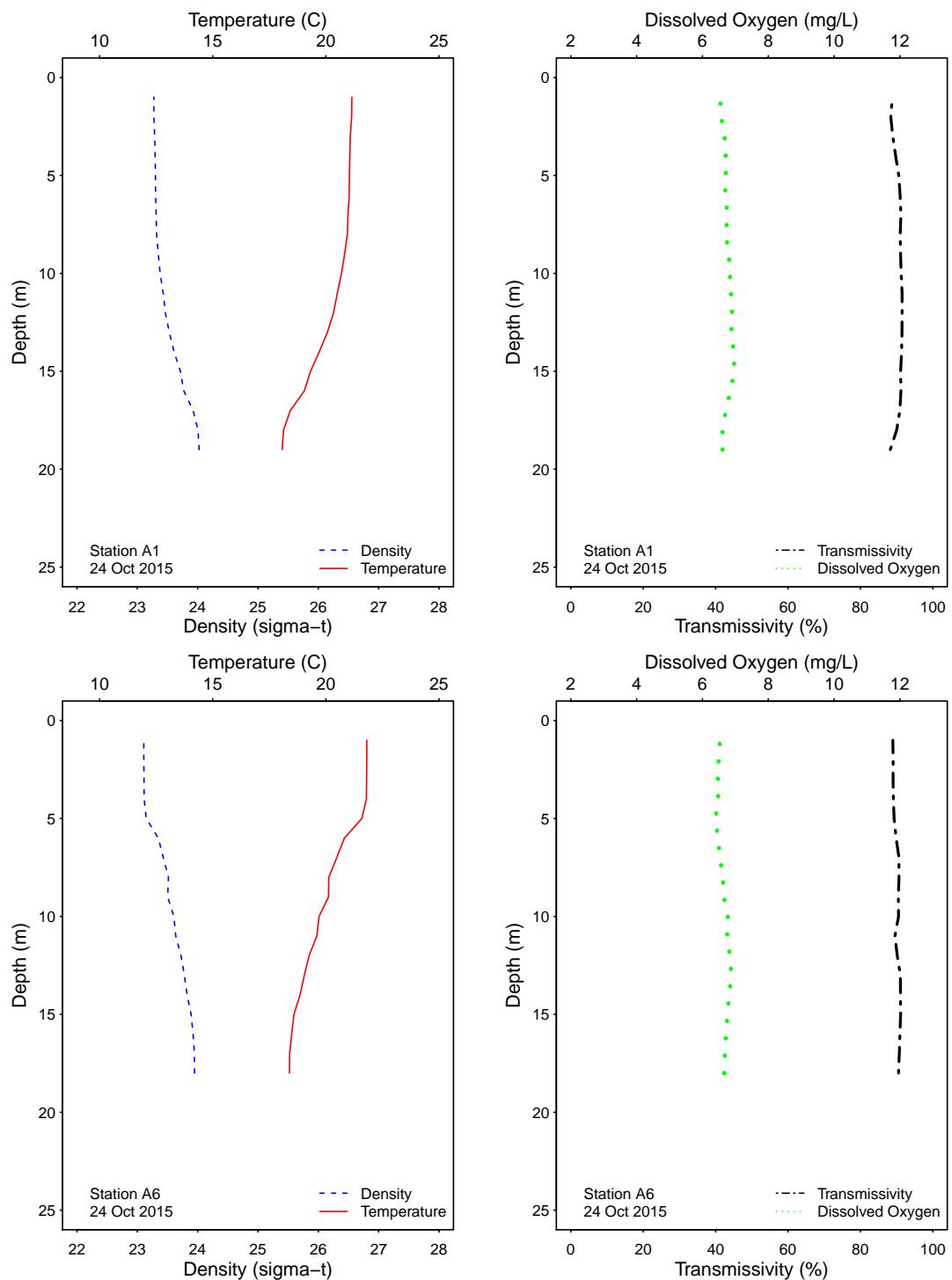


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

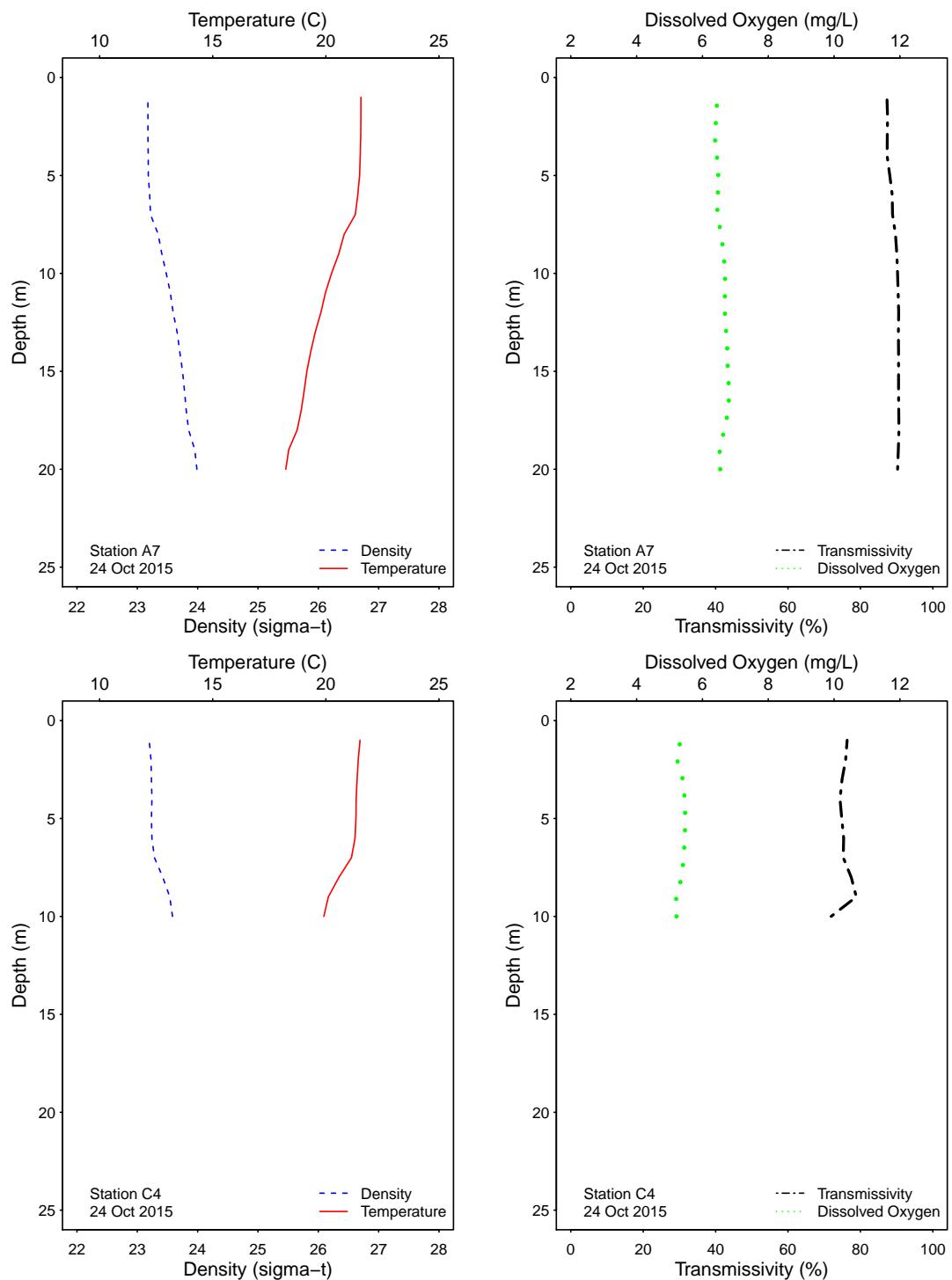


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

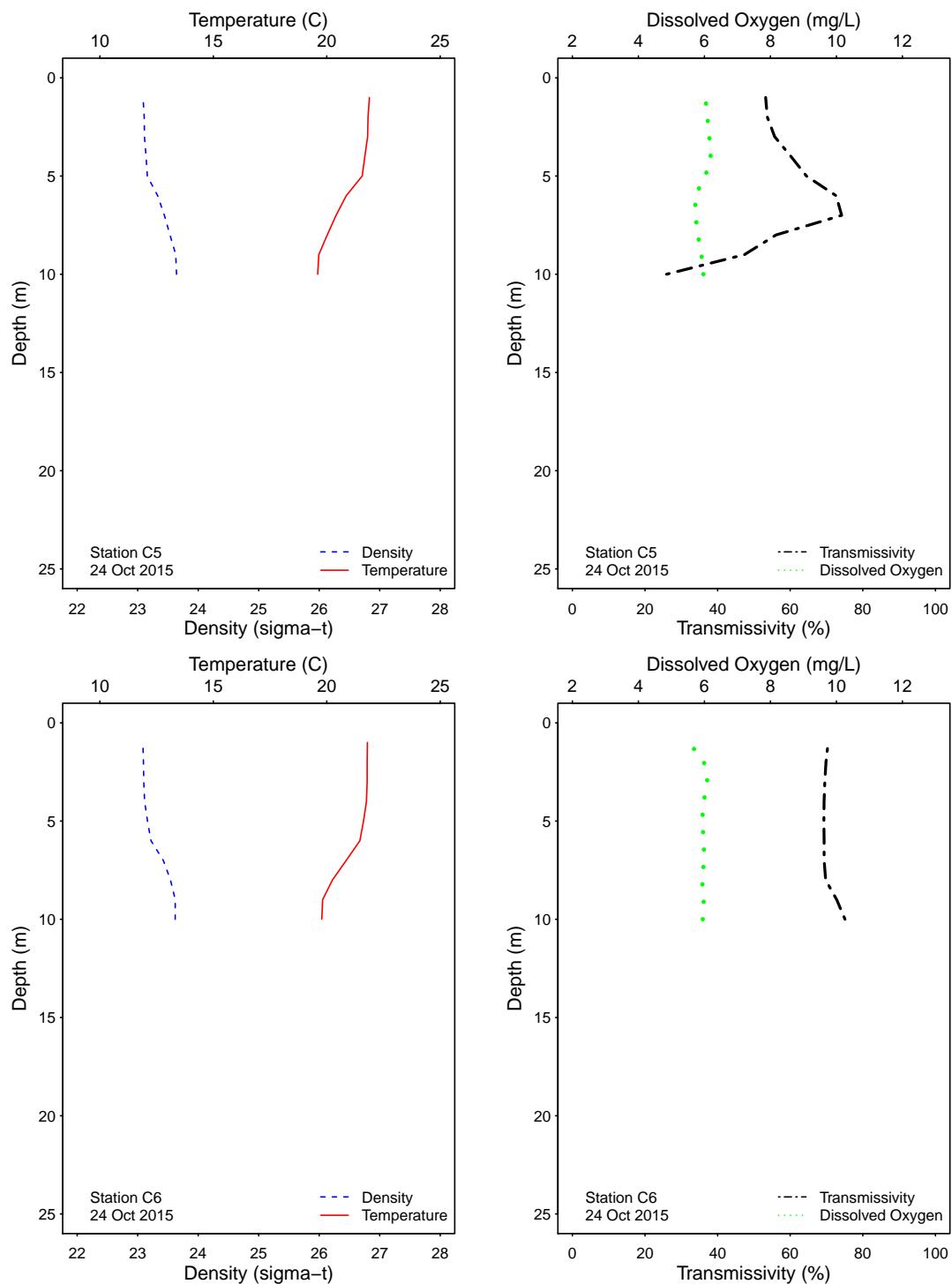


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

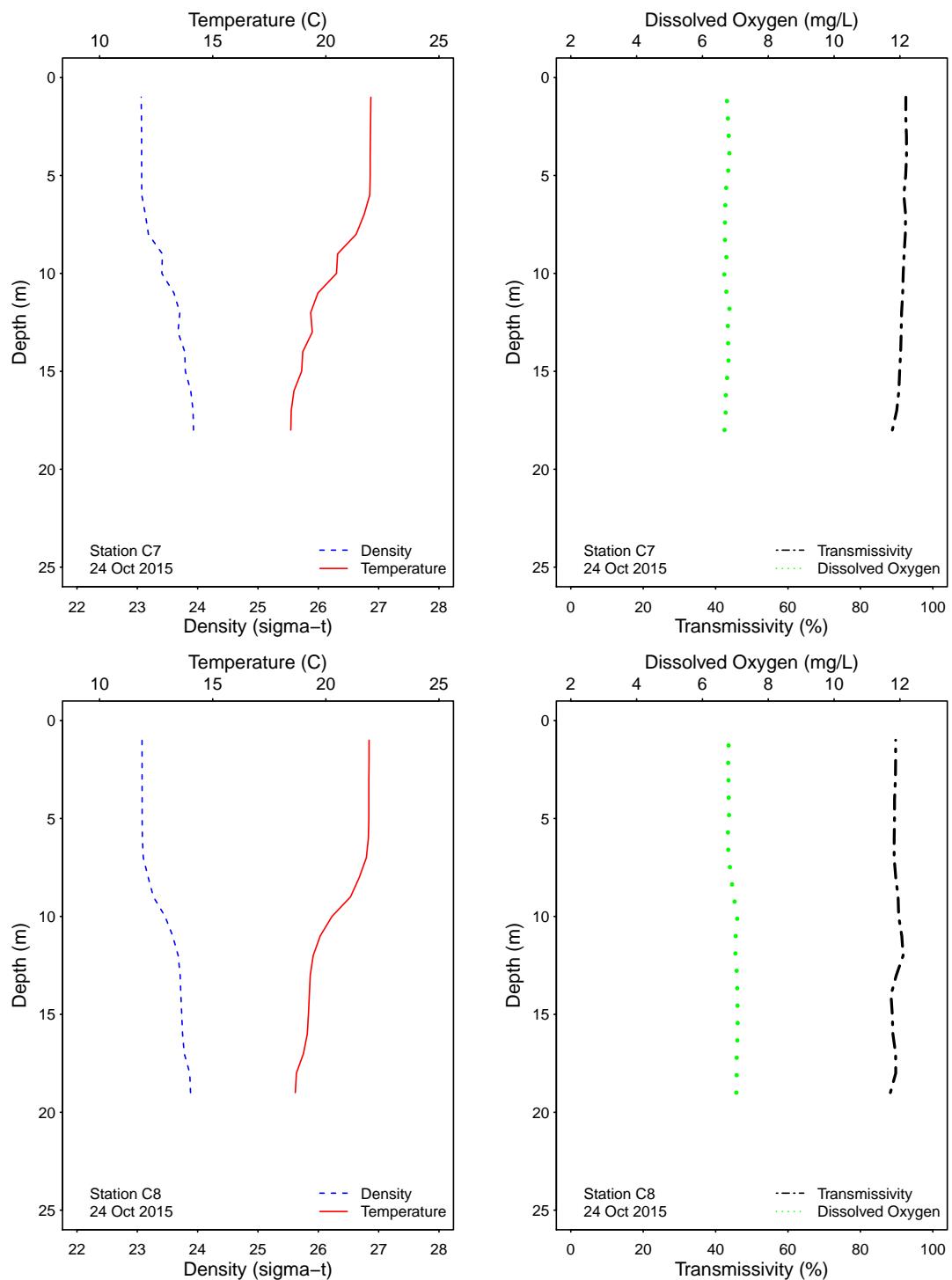


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

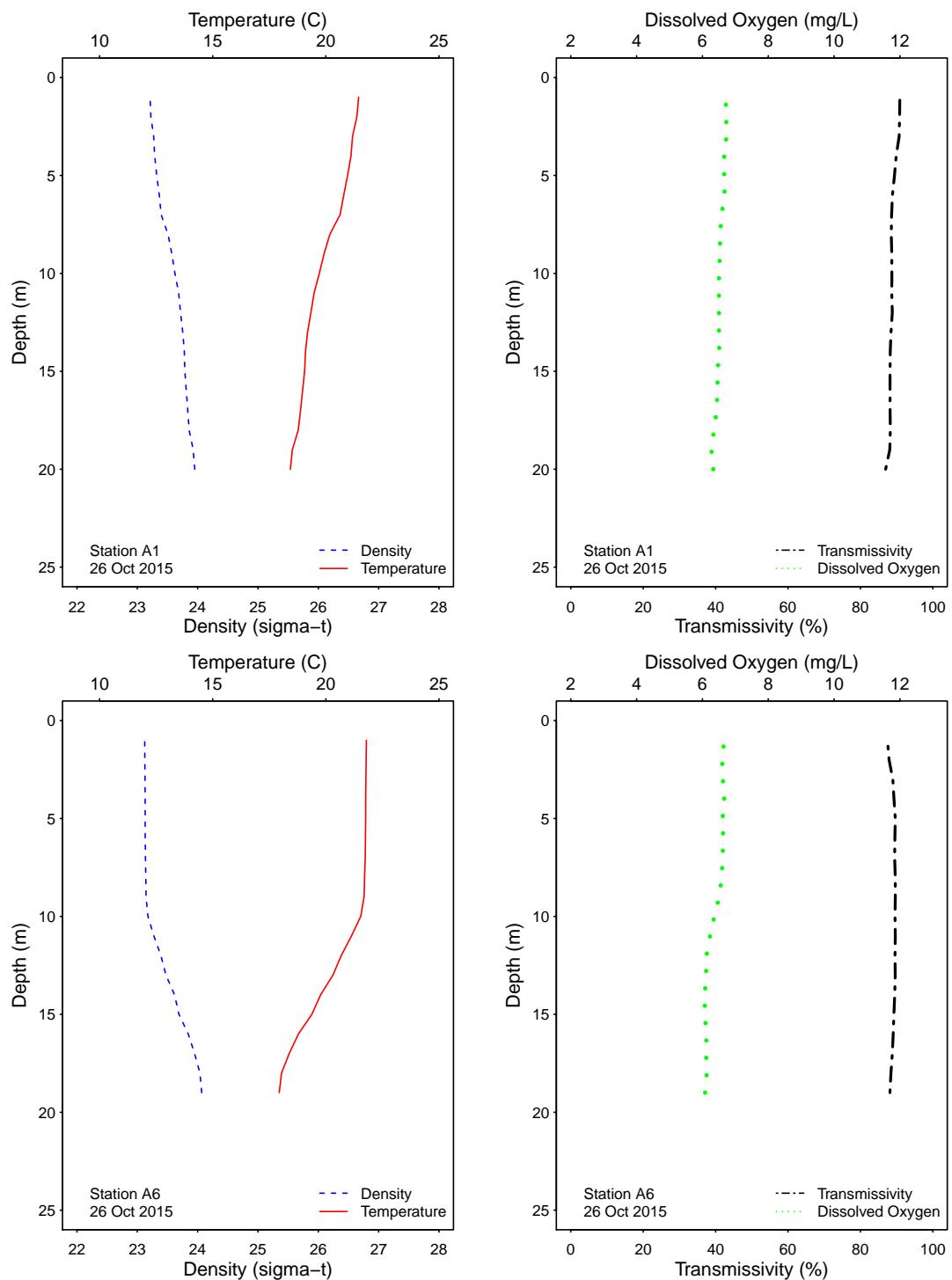


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

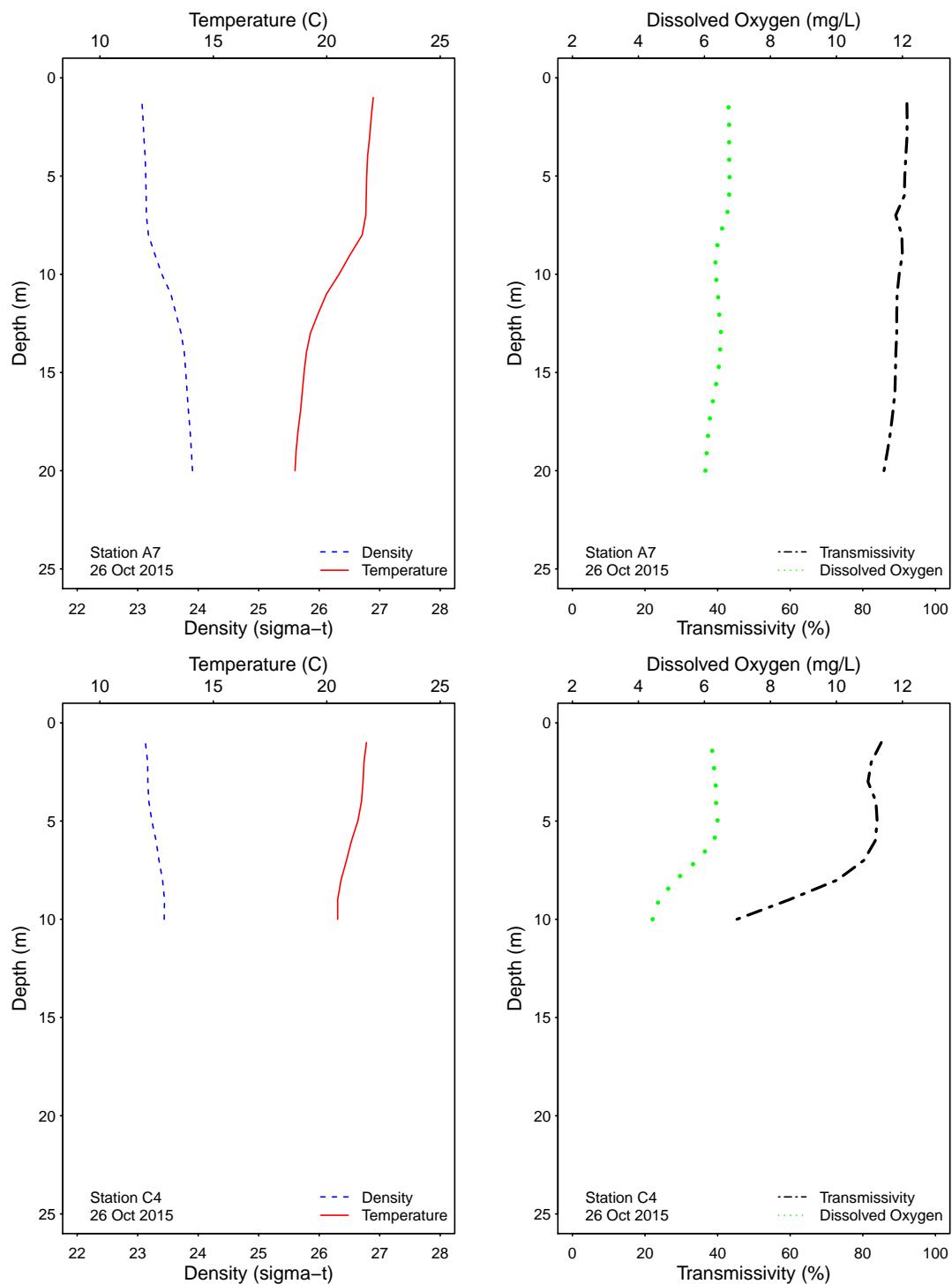


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

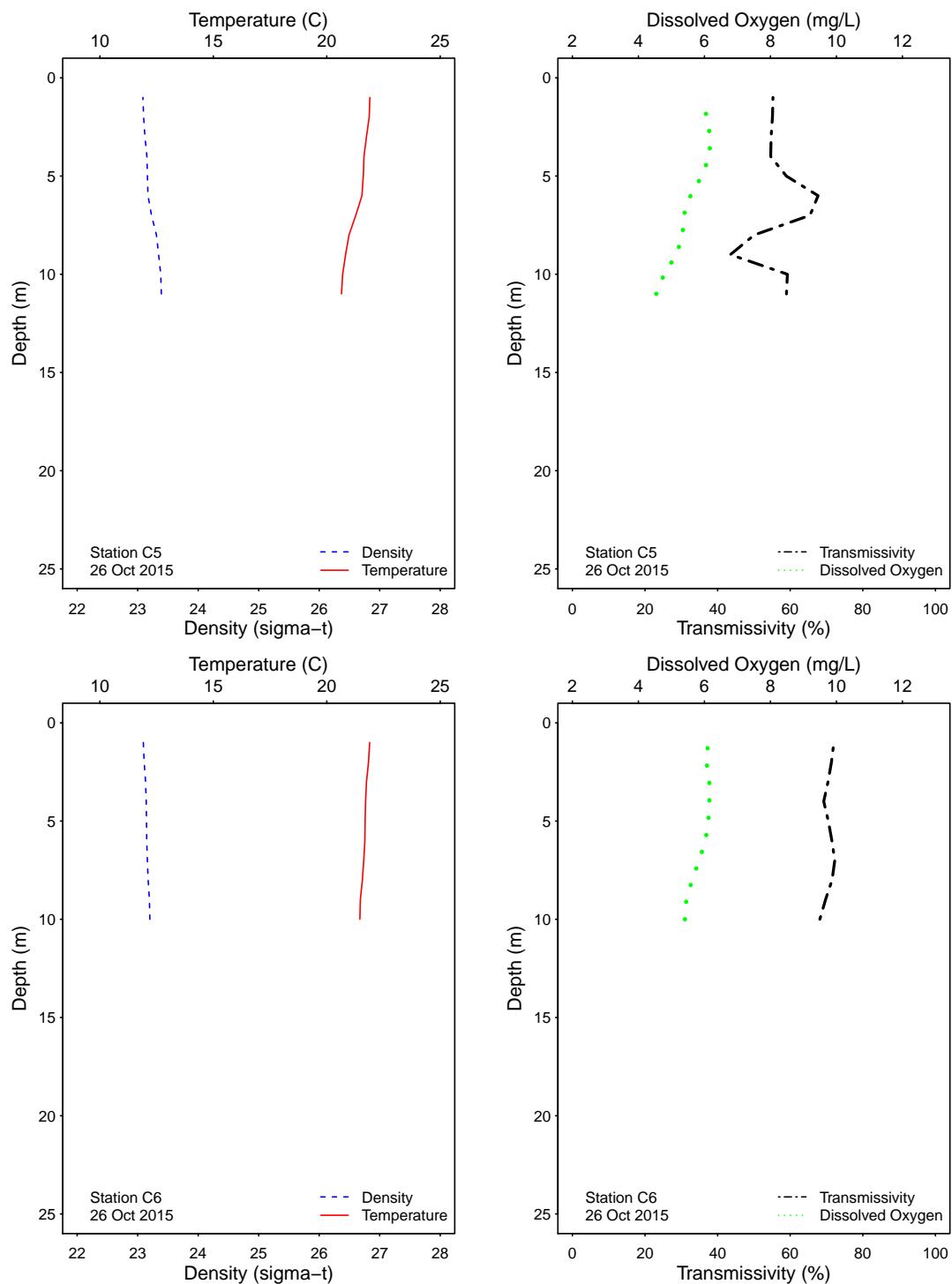


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

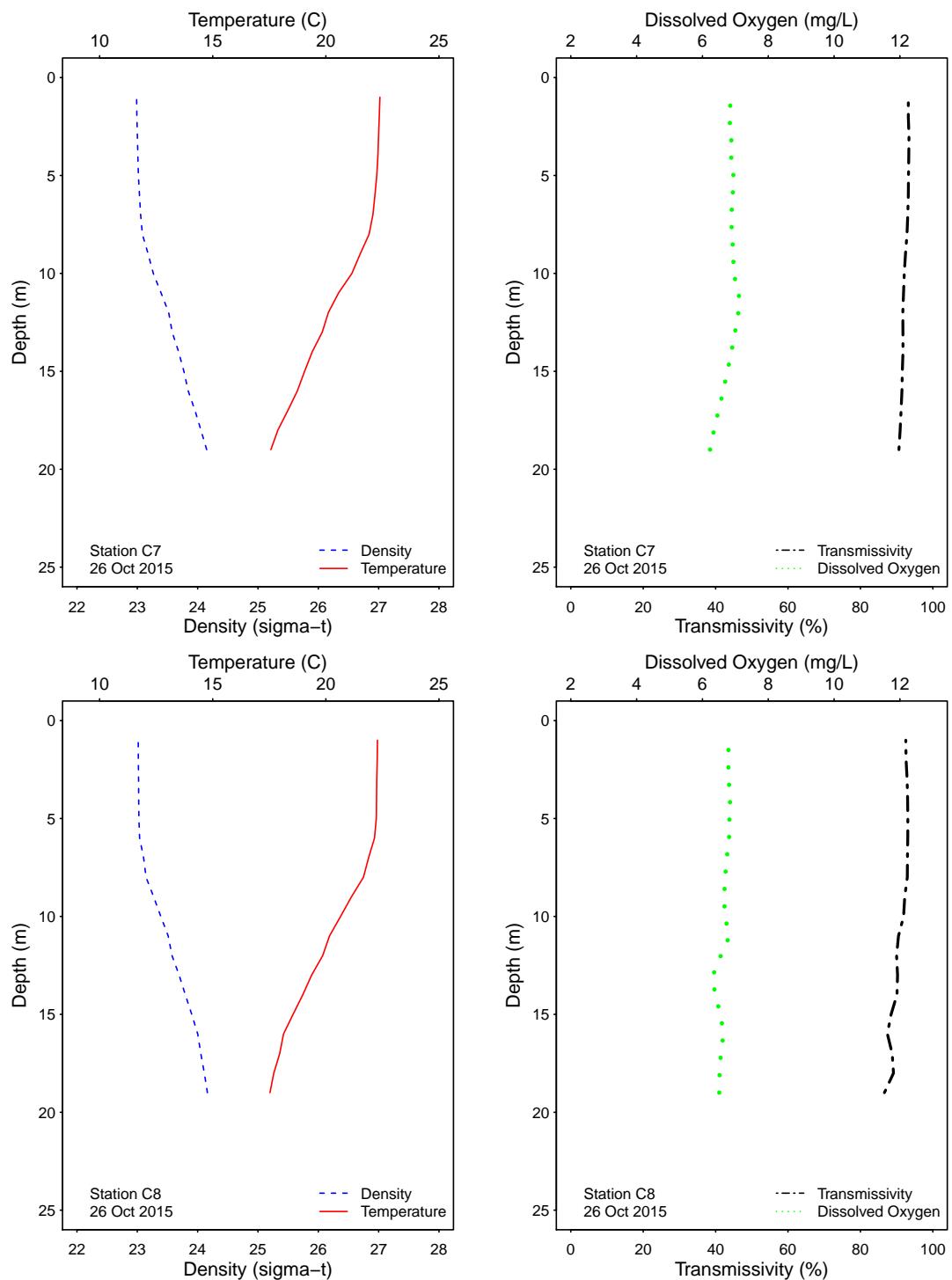


Figure 3.1: Graphics of CTD profile data from the PLOO kelp stations for each sample date.

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	01 Oct 2015	18	SR	LAB DUPLICATE	22e	<2	<2
A7	07 Oct 2015	18	SR	LAB DUPLICATE	<2	<2	<2
A7	13 Oct 2015	18	JT	LAB DUPLICATE	<20	<2	4e
A7	24 Oct 2015	18	SR	LAB DUPLICATE	2e	2e	<2
A7	26 Oct 2015	18	LO	LAB DUPLICATE	<2	<2	<2
C7	01 Oct 2015	18	SR	LAB DUPLICATE	6e	<2	<2
C7	07 Oct 2015	18	LMA	LAB DUPLICATE	2e	<2	<2
C7	13 Oct 2015	18	LMA	LAB DUPLICATE	<2	<2	2e
C7	24 Oct 2015	18	SR	LAB DUPLICATE	<2	<2	2e
C7	26 Oct 2015	18	LMA	LAB DUPLICATE	14e	<2	<2
C8	01 Oct 2015	12	SR	LAB DUPLICATE	<2	<2	<2
C8	07 Oct 2015	12	ZV	LAB DUPLICATE	2e	<2	<2
C8	13 Oct 2015	12	LMA	LAB DUPLICATE	2e	<2	<2
C8	24 Oct 2015	12	LMA	LAB DUPLICATE	<2	<2	<2
C8	26 Oct 2015	12	LO	LAB DUPLICATE	<2	<2	<2
D8	02 Oct 2015		AR	FIELD DUPLICATE	<200	<2	<2
D8	02 Oct 2015		AR	LAB DUPLICATE	200e	<2	<2
D8	08 Oct 2015		AR	FIELD DUPLICATE	200e	24e	3800e
D8	08 Oct 2015		AR	LAB DUPLICATE	20e	20e	3400e
D8	14 Oct 2015		AR	FIELD DUPLICATE	ns	10e	8e
D8	14 Oct 2015		SR	FIELD DUPLICATE	200e	ns	ns
D8	14 Oct 2015		AR	LAB DUPLICATE	ns	<20	16e
D8	14 Oct 2015		SR	LAB DUPLICATE	400e	ns	ns
D8	20 Oct 2015		SR	FIELD DUPLICATE	40e	ns	ns
D8	20 Oct 2015		ZV	FIELD DUPLICATE	ns	8e	<2
D8	20 Oct 2015		ZV	LAB DUPLICATE	<20	10e	4e
D8	26 Oct 2015		SR	FIELD DUPLICATE	<200	54	32e
D8	26 Oct 2015		SR	LAB DUPLICATE	200e	38e	50

ns = not sampled

