



MONTHLY RECEIVING WATERS MONITORING REPORT FOR THE SOUTH BAY OCEAN OUTFALL

SOUTH BAY WATER RECLAMATION PLANT

NPDES PERMIT No. CA 0109045
SDRWQCB Order No. R9-2013-0006

AUGUST 2016

Environmental Monitoring and Technical Services
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309





THE CITY OF SAN DIEGO

September 30, 2016

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the August 2016 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006, NPDES Permit No. CA0109045.

This report includes raw ocean monitoring data and summaries of water quality parameters and ocean conditions measured during the month for the South Bay outfall region. Also included are summaries of compliance with the bacterial water-contact standards specified in the California Ocean Plan. These data are also presented in the monthly report submitted by the International Boundary and Water Commission, U.S. Section for discharge from the South Bay International Wastewater Treatment Plant (Order No. R9-2014-0009, NPDES Permit No. CA0108928).

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

Sincerely,

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

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

TDS/asb

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

Environmental Monitoring and Technical Services Division • Public Utilities

2392 Kincaid Road • San Diego, CA 92101-0811

Tel (619) 758-2300 Fax (619) 758-2309



INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013. This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

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

internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

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

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

Bacteriological Reporting and Quality Assurance

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

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

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

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 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 2016 Quality Assurance Report, which will be completed in March 2017.

SUMMARY OF RESULTS

➤ Shoreline Water Quality Sampling

- Because of site access restrictions in Mexico, the South Bay shoreline sampling is carried out on the same day each week (i.e., Tuesday) in order to coordinate sampling between the Mexican and USA based stations. Seawater samples at the three shore stations located south of the USA/Mexico border (i.e., stations S0, S2 and S3) are presently collected by the Comisión Internacional de Límites y Aguas (CILA) and transported to the IBWC for subsequent delivery to the City's Marine Microbiology Lab, while samples from the eight stations located in USA waters are sampled by City staff.
- During August, each of the eight shore stations located north of the border were in compliance with various California Ocean Plan (Ocean Plan) water contact standards; these standards do not apply to stations located in Mexican waters.
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater sample collected at station S0 on multiple days during the month.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shoreline monitoring stations, combined with the results of satellite imagery data, suggest that

outflows from the Tijuana River and Los Buenos Creek, as well as surface runoff during or after rain events (storms), are likely to be the cause of impacted water quality along the shore and in near shore recreational waters in the South Bay region. See the City of San Diego's most recent *South Bay 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 August included: a slight rotten odor at station S5 on August 23, a dirty and foamy appearance of the water at stations S4 and S10 on August 23, and storm drain run-off at station S0 on multiple days during the month.

➤ **Kelp Bed Water Quality Sampling**

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled five times over six days during August (i.e. August 3, 4, 11, 24, 27, 30).
- During August, each of the seven stations were in compliance with various California Ocean Plan (Ocean Plan) water contact standards.
- Water column temperatures ranged from 13.86 to 23.14°C. The difference between surface and bottom waters ranged from approximately 1.35 to 7.13°C, indicating the water column was stratified at these sites during the month.
- Chlorophyll *a* concentrations ranged from 0.00 to 6.40 µg/L at these stations, suggesting the presence of phytoplankton blooms during the month.
- Suspended solid values ranged from 0.2 to 7.3 mg/L in August.
- Oil and grease values were < 5.1 mg/L in all kelp bed seawater samples.
- Nothing of sewage origin was observed at any of the kelp bed stations.

➤ **Offshore Water Quality Sampling**

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., August 2, 3, 4).
- Each of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- Although the Ocean Plan standards do not apply to stations outside State jurisdictional waters, bacteria densities for these stations did not exceed benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1).
- Water column temperatures ranged from 11.89 to 23.12°C at the offshore sites. The difference between surface and bottom waters ranged from 4.41 to 11.05°C, indicating that the water column was stratified at all of the offshore stations during the month.
- Chlorophyll *a* concentrations ranged from 0.50 to 4.46 µg/L at the offshore sites, suggesting the absence of phytoplankton blooms during the month.
- CDOM data are available upon request.
- Suspended solid values ranged from 0.2 to 3.6 mg/L in August.
- Oil and grease values were < 5.1 mg/L in all offshore seawater samples.
- Nothing of sewage origin was observed at any of the offshore stations.

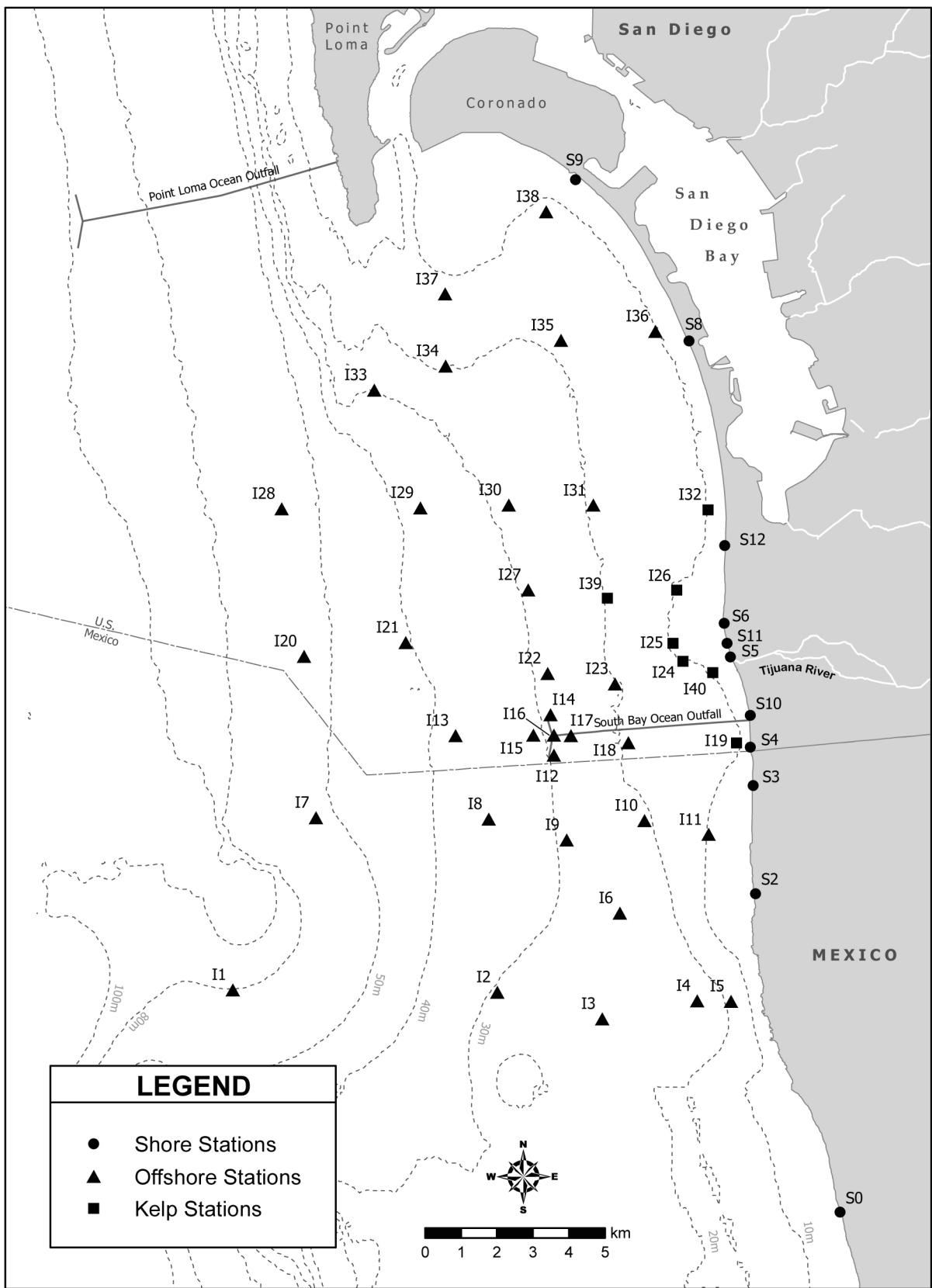


Figure 1.1 Station Map

Shore Stations

Table 2.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2016	6*	8*	3*	8*	36*	5*	6*	11*
02 Aug 2016	8	9	5	9	50	7	8	13
03 Aug 2016	8	9	5	9	50	7	8	13
04 Aug 2016	9*	11*	6*	13*	36*	8*	11*	11*
05 Aug 2016	9*	11*	6*	13*	36*	8*	11*	11*
06 Aug 2016	9*	11*	6*	13*	36*	8*	11*	11*
07 Aug 2016	9*	11*	6*	13*	36*	8*	11*	11*
08 Aug 2016	9*	11*	6*	13*	36*	8*	11*	11*
09 Aug 2016	7	8	7	14	36	9	12	13
10 Aug 2016	7	8	7	14	36	9	12	13
11 Aug 2016	9*	6*	8*	20*	42*	13*	18*	20*
12 Aug 2016	9*	6*	8*	20*	42*	13*	18*	20*
13 Aug 2016	9*	6*	8*	20*	42*	13*	18*	20*
14 Aug 2016	9*	6*	8*	20*	42*	13*	18*	20*
15 Aug 2016	9*	6*	8*	20*	42*	13*	18*	20*
16 Aug 2016	17	8	10	20	36	14	19	20
17 Aug 2016	17	8	10	20	36	14	19	20
18 Aug 2016	16*	11*	15*	20*	42*	20*	18*	20*
19 Aug 2016	16*	11*	15*	20*	42*	20*	18*	20*
20 Aug 2016	16*	11*	15*	20*	42*	20*	18*	20*
21 Aug 2016	16*	11*	15*	20*	42*	20*	18*	20*
22 Aug 2016	16*	11*	15*	20*	42*	20*	18*	20*
23 Aug 2016	19	13	16	20	42	20	19	20
24 Aug 2016	19	13	16	20	42	20	19	20
25 Aug 2016	28*	11*	20*	20*	50*	20*	18*	20*
26 Aug 2016	28*	11*	20*	20*	50*	20*	18*	20*
27 Aug 2016	28*	11*	20*	20*	50*	20*	18*	20*
28 Aug 2016	28*	11*	20*	20*	50*	20*	18*	20*
29 Aug 2016	28*	11*	20*	20*	50*	20*	18*	20*
30 Aug 2016	26	13	20	13	42	20	19	17
31 Aug 2016	26	13	20	13	42	20	19	17

* Geometric mean calculated using n<5

Table 2.2

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2016	2*	2*	2*	2*	2*	2*	2*	4*
02 Aug 2016	2	2	2	2	2	2	2	5
03 Aug 2016	2	2	2	2	2	2	2	5
04 Aug 2016	2*	2*	2*	2*	2*	2*	2*	6*
05 Aug 2016	2*	2*	2*	2*	2*	2*	2*	6*
06 Aug 2016	2*	2*	2*	2*	2*	2*	2*	6*
07 Aug 2016	2*	2*	2*	2*	2*	2*	2*	6*
08 Aug 2016	2*	2*	2*	2*	2*	2*	2*	6*
09 Aug 2016	2	2	2	2	3	2	2	5
10 Aug 2016	2	2	2	2	3	2	2	5
11 Aug 2016	2*	2*	2*	2*	4*	2*	2*	7*
12 Aug 2016	2*	2*	2*	2*	4*	2*	2*	7*
13 Aug 2016	2*	2*	2*	2*	4*	2*	2*	7*
14 Aug 2016	2*	2*	2*	2*	4*	2*	2*	7*
15 Aug 2016	2*	2*	2*	2*	4*	2*	2*	7*
16 Aug 2016	2	2	2	2	3	2	2	5
17 Aug 2016	2	2	2	2	3	2	2	5
18 Aug 2016	3*	2*	2*	2*	4*	2*	2*	7*
19 Aug 2016	3*	2*	2*	2*	4*	2*	2*	7*
20 Aug 2016	3*	2*	2*	2*	4*	2*	2*	7*
21 Aug 2016	3*	2*	2*	2*	4*	2*	2*	7*
22 Aug 2016	3*	2*	2*	2*	4*	2*	2*	7*
23 Aug 2016	4	2	2	2	5	3	2	7
24 Aug 2016	4	2	2	2	5	3	2	7
25 Aug 2016	4*	2*	2*	2*	6*	4*	2*	6*
26 Aug 2016	4*	2*	2*	2*	6*	4*	2*	6*
27 Aug 2016	4*	2*	2*	2*	6*	4*	2*	6*
28 Aug 2016	4*	2*	2*	2*	6*	4*	2*	6*
29 Aug 2016	4*	2*	2*	2*	6*	4*	2*	6*
30 Aug 2016	4	2	2	2	5	4	2	6
31 Aug 2016	4	2	2	2	5	4	2	6

* Geometric mean calculated using n<5

Table 2.3

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Aug 2016	2*	2*	2*	2*	2*	2*	2*	3*
02 Aug 2016	3	2	2	2	2	2	2	4
03 Aug 2016	3	2	2	2	2	2	2	4
04 Aug 2016	3*	3*	2*	2*	2*	2*	2*	4*
05 Aug 2016	3*	3*	2*	2*	2*	2*	2*	4*
06 Aug 2016	3*	3*	2*	2*	2*	2*	2*	4*
07 Aug 2016	3*	3*	2*	2*	2*	2*	2*	4*
08 Aug 2016	3*	3*	2*	2*	2*	2*	2*	4*
09 Aug 2016	3	3	2	2	3	4	2	3
10 Aug 2016	3	3	2	2	3	4	2	3
11 Aug 2016	3*	3*	2*	2*	3*	4*	2*	4*
12 Aug 2016	3*	3*	2*	2*	3*	4*	2*	4*
13 Aug 2016	3*	3*	2*	2*	3*	4*	2*	4*
14 Aug 2016	3*	3*	2*	2*	3*	4*	2*	4*
15 Aug 2016	3*	3*	2*	2*	3*	4*	2*	4*
16 Aug 2016	4	4	2	2	3	4	2	3
17 Aug 2016	4	4	2	2	3	4	2	3
18 Aug 2016	4*	4*	2*	2*	3*	4*	2*	3*
19 Aug 2016	4*	4*	2*	2*	3*	4*	2*	3*
20 Aug 2016	4*	4*	2*	2*	3*	4*	2*	3*
21 Aug 2016	4*	4*	2*	2*	3*	4*	2*	3*
22 Aug 2016	4*	4*	2*	2*	3*	4*	2*	3*
23 Aug 2016	5	4	2	2	4	4	2	3
24 Aug 2016	5	4	2	2	4	4	2	3
25 Aug 2016	6*	4*	2*	2*	5*	4*	2*	3*
26 Aug 2016	6*	4*	2*	2*	5*	4*	2*	3*
27 Aug 2016	6*	4*	2*	2*	5*	4*	2*	3*
28 Aug 2016	6*	4*	2*	2*	5*	4*	2*	3*
29 Aug 2016	6*	4*	2*	2*	5*	4*	2*	3*
30 Aug 2016	9	4	2	2	4	5	2	3
31 Aug 2016	9	4	2	2	4	5	2	3

* Geometric mean calculated using n<5

Table 2.4

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
09 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
30 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.5

Summary of compliance at the SBOO shore stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
09 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
30 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.6

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
09 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
30 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.7

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
02 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
09 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Aug 2016	IC	IC	IC	IC	IC	IC	IC	IC
30 Aug 2016	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 SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Enter) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Enter	F:T
S0	02 Aug 2016	1100	5400	560	1200	0.10
S0	09 Aug 2016	1115	220e	10e	94	0.05
S0	16 Aug 2016	1140	8200	80e	3200e	0.01
S0	23 Aug 2016	1115	14e	6e	8e	0.43
S0	30 Aug 2016	1140	400	56	24e	0.14
S2	02 Aug 2016	1005	<20	<2	<2	0.10
S2	09 Aug 2016	1005	8e	<2	<2	0.25
S2	16 Aug 2016	1025	20e	6e	40	0.30
S2	23 Aug 2016	1010	<20	<2	<2	0.10
S2	30 Aug 2016	1015	<20	<2	<2	0.10
S3	02 Aug 2016	930	20e	6e	6e	0.30
S3	09 Aug 2016	915	2e	<2	<2	1.00
S3	16 Aug 2016	940	<20	<2	4e	0.10
S3	23 Aug 2016	915	<2	<2	<2	1.00
S3	30 Aug 2016	925	20e	<2	10e	0.10
S4	02 Aug 2016	922	40e	2e	14e	0.05
S4	09 Aug 2016	1238	<2	<2	<2	1.00
S4	16 Aug 2016	902	<200	6e	6e	0.03
S4	23 Aug 2016	1311	40e	12e	6e	0.30
S4	30 Aug 2016	844	20e	<2	48	0.10
S5	02 Aug 2016	1043	<20	<2	6e	0.10
S5	09 Aug 2016	1057	<2	<2	4e	1.00
S5	16 Aug 2016	1042	20e	2e	6e	0.10
S5	23 Aug 2016	735	20e	<2	<2	0.10
S5	30 Aug 2016	1007	<20	6e	2e	0.30
S6	02 Aug 2016	1030	<20	<2	4e	0.10
S6	09 Aug 2016	1047	<20	2e	<2	0.10
S6	16 Aug 2016	1029	<20	<2	<2	0.10
S6	23 Aug 2016	724	<20	<2	<2	0.10
S6	30 Aug 2016	953	<20	6e	2e	0.30
S8	02 Aug 2016	1236	<20	<2	<2	0.10
S8	09 Aug 2016	1003	<20	2e	<2	0.10
S8	16 Aug 2016	1213	<20	<2	<2	0.10
S8	23 Aug 2016	807	<20	<2	2e	0.10
S8	30 Aug 2016	1156	<2	<2	<2	1.00
S9	02 Aug 2016	1312	<200	<2	2e	0.01
S9	09 Aug 2016	923	40e	26e	14e	0.65
S9	16 Aug 2016	1251	<20	<2	<2	0.10
S9	23 Aug 2016	832	40e	16e	16e	0.40
S9	30 Aug 2016	1238	<20	<2	<2	0.10
S10	02 Aug 2016	916	<20	2e	4e	0.10

Station	Date	Time	Total	Fecal	Enter	F:T
S10	09 Aug 2016	1232	20e	4e	24e	0.20
S10	16 Aug 2016	855	<20	<2	2e	0.10
S10	23 Aug 2016	1304	<20	12e	2e	0.60
S10	30 Aug 2016	837	<20	4e	8e	0.20
S11	02 Aug 2016	1052	<20	2e	2e	0.10
S11	09 Aug 2016	1051	14e	<2	<2	0.14
S11	16 Aug 2016	1036	<20	2e	<2	0.10
S11	23 Aug 2016	728	<20	<2	<2	0.10
S11	30 Aug 2016	959	<20	<2	<2	0.10
S12	02 Aug 2016	1015	<20	12e	8e	0.60
S12	09 Aug 2016	1035	<20	4e	<2	0.20
S12	16 Aug 2016	1010	<20	<2	<2	0.10
S12	23 Aug 2016	714	<20	10e	2e	0.50
S12	30 Aug 2016	935	8e	6e	<2	0.75

ns = not sampled

ND = no data

Table 2.9

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

Station	Date	Parameter	Value
S0	02 Aug 2016	Arrive Time	1100
S0	02 Aug 2016	Weather	Sunny
S0	02 Aug 2016	Wind Speed (kts)	3.6
S0	02 Aug 2016	Wind Dir	NE
S0	02 Aug 2016	Animal Life	5 Shorebirds
S0	02 Aug 2016	Floatables	None
S0	02 Aug 2016	Water Color	Green
S0	02 Aug 2016	Current Direction	N
S0	02 Aug 2016	Water Temp (C)	22
S0	02 Aug 2016	Wave Height Low (ft)	2
S0	02 Aug 2016	High Tide (ft)	4.5
S0	02 Aug 2016	High Tide Time	1003
S0	02 Aug 2016	Low Tide (ft)	1.4
S0	02 Aug 2016	Low Tide Time	1526
S0	02 Aug 2016	Comments	Kelp; 5 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S0	09 Aug 2016	Arrive Time	1115
S0	09 Aug 2016	Weather	Sunny
S0	09 Aug 2016	Wind Speed (kts)	1.8
S0	09 Aug 2016	Wind Dir	SW
S0	09 Aug 2016	Animal Life	>20 Seagulls
S0	09 Aug 2016	Floatables	None
S0	09 Aug 2016	Water Color	Green
S0	09 Aug 2016	Current Direction	N
S0	09 Aug 2016	Water Temp (C)	18
S0	09 Aug 2016	Wave Height Low (ft)	2
S0	09 Aug 2016	High Tide (ft)	4.3
S0	09 Aug 2016	High Tide Time	1436
S0	09 Aug 2016	Low Tide (ft)	1.7
S0	09 Aug 2016	Low Tide Time	749
S0	09 Aug 2016	Comments	Kelp; Algae; 5 Swimmers; Water turbid; Flow from stormdrain 1 L/sec
S0	16 Aug 2016	Arrive Time	1140
S0	16 Aug 2016	Weather	Cloudy
S0	16 Aug 2016	Wind Speed (kts)	1.8
S0	16 Aug 2016	Wind Dir	N
S0	16 Aug 2016	Animal Life	5 Shorebirds; 1 Dog; 5 Seagulls
S0	16 Aug 2016	Floatables	None
S0	16 Aug 2016	Water Color	Green
S0	16 Aug 2016	Current Direction	N
S0	16 Aug 2016	Water Temp (C)	18.2
S0	16 Aug 2016	Wave Height Low (ft)	3
S0	16 Aug 2016	High Tide (ft)	4.3
S0	16 Aug 2016	High Tide Time	902
S0	16 Aug 2016	Low Tide (ft)	1.6
S0	16 Aug 2016	Low Tide Time	1423
S0	16 Aug 2016	Comments	Kelp; Algae; 3 Persons; Water clear; Flow from stormdrain is 0.5L/sec
S0	23 Aug 2016	Arrive Time	1115

Station	Date	Parameter	Value
S0	23 Aug 2016	Weather	Cloudy
S0	23 Aug 2016	Wind Speed (kts)	1
S0	23 Aug 2016	Wind Dir	SE
S0	23 Aug 2016	Animal Life	5 Dogs; 5 Seagulls
S0	23 Aug 2016	Floatables	None
S0	23 Aug 2016	Water Color	Green
S0	23 Aug 2016	Current Direction	SE
S0	23 Aug 2016	Water Temp (C)	17.5
S0	23 Aug 2016	Wave Height Low (ft)	3
S0	23 Aug 2016	High Tide (ft)	5.2
S0	23 Aug 2016	High Tide Time	1336
S0	23 Aug 2016	Low Tide (ft)	1.2
S0	23 Aug 2016	Low Tide Time	709
S0	23 Aug 2016	Comments	Kelp; Algae; 2 Persons; Water clear; Flow from stormdrain is 1L/sec
S0	30 Aug 2016	Arrive Time	1140
S0	30 Aug 2016	Weather	Cloudy
S0	30 Aug 2016	Wind Speed (kts)	1.6
S0	30 Aug 2016	Wind Dir	NE
S0	30 Aug 2016	Animal Life	5 Pelicans; 15 Seagulls
S0	30 Aug 2016	Floatables	None
S0	30 Aug 2016	Water Color	Green
S0	30 Aug 2016	Current Direction	N
S0	30 Aug 2016	Water Temp (C)	18
S0	30 Aug 2016	Wave Height Low (ft)	2
S0	30 Aug 2016	High Tide (ft)	4.7
S0	30 Aug 2016	High Tide Time	903
S0	30 Aug 2016	Low Tide (ft)	1.3
S0	30 Aug 2016	Low Tide Time	1438
S0	30 Aug 2016	Comments	Kelp; 4 Persons; Water clear; Flow from stormdrain is 1L/sec
S2	02 Aug 2016	Arrive Time	1005
S2	02 Aug 2016	Weather	Sunny
S2	02 Aug 2016	Wind Speed (kts)	2.6
S2	02 Aug 2016	Wind Dir	NE
S2	02 Aug 2016	Animal Life	5 Shorebirds
S2	02 Aug 2016	Floatables	None
S2	02 Aug 2016	Water Color	Green
S2	02 Aug 2016	Current Direction	N
S2	02 Aug 2016	Water Temp (C)	22
S2	02 Aug 2016	Wave Height Low (ft)	2
S2	02 Aug 2016	High Tide (ft)	4.5
S2	02 Aug 2016	High Tide Time	1003
S2	02 Aug 2016	Low Tide (ft)	1.4
S2	02 Aug 2016	Low Tide Time	1526
S2	02 Aug 2016	Comments	Kelp; 4 Persons; Water clear; No flow from stormdrain
S2	09 Aug 2016	Arrive Time	1005
S2	09 Aug 2016	Weather	Sunny
S2	09 Aug 2016	Wind Speed (kts)	3.4
S2	09 Aug 2016	Wind Dir	SW
S2	09 Aug 2016	Animal Life	5 Dogs; 15 Seagulls
S2	09 Aug 2016	Floatables	None
S2	09 Aug 2016	Water Color	Green

Station	Date	Parameter	Value
S2	09 Aug 2016	Current Direction	N
S2	09 Aug 2016	Water Temp (C)	20
S2	09 Aug 2016	Wave Height Low (ft)	2
S2	09 Aug 2016	High Tide (ft)	4.3
S2	09 Aug 2016	High Tide Time	1436
S2	09 Aug 2016	Low Tide (ft)	1.7
S2	09 Aug 2016	Low Tide Time	749
S2	09 Aug 2016	Comments	Kelp; Algae; Water turbid; No flow from stormdrain
S2	16 Aug 2016	Arrive Time	1025
S2	16 Aug 2016	Weather	Cloudy
S2	16 Aug 2016	Wind Speed (kts)	2.3
S2	16 Aug 2016	Wind Dir	N
S2	16 Aug 2016	Animal Life	>20 Shorebirds; 1 Dog; 7 Pelicans
S2	16 Aug 2016	Floatables	None
S2	16 Aug 2016	Water Color	Green
S2	16 Aug 2016	Current Direction	N
S2	16 Aug 2016	Water Temp (C)	18.1
S2	16 Aug 2016	Wave Height Low (ft)	3
S2	16 Aug 2016	High Tide (ft)	4.3
S2	16 Aug 2016	High Tide Time	902
S2	16 Aug 2016	Low Tide (ft)	1.6
S2	16 Aug 2016	Low Tide Time	1423
S2	16 Aug 2016	Comments	Kelp; Algae; 10 Persons; Water clear; No flow from stormdrain
S2	23 Aug 2016	Arrive Time	1010
S2	23 Aug 2016	Weather	Cloudy
S2	23 Aug 2016	Wind Speed (kts)	2
S2	23 Aug 2016	Wind Dir	SE
S2	23 Aug 2016	Animal Life	8 Dogs; 15 Seagulls
S2	23 Aug 2016	Floatables	None
S2	23 Aug 2016	Water Color	Green
S2	23 Aug 2016	Current Direction	SE
S2	23 Aug 2016	Water Temp (C)	17.5
S2	23 Aug 2016	Wave Height Low (ft)	3
S2	23 Aug 2016	High Tide (ft)	5.2
S2	23 Aug 2016	High Tide Time	1336
S2	23 Aug 2016	Low Tide (ft)	1.2
S2	23 Aug 2016	Low Tide Time	709
S2	23 Aug 2016	Comments	Kelp; Seagrass; Algae; 4 Persons; Water clear; No flow from stormdrain
S2	30 Aug 2016	Arrive Time	1015
S2	30 Aug 2016	Weather	Cloudy
S2	30 Aug 2016	Wind Speed (kts)	1.5
S2	30 Aug 2016	Wind Dir	NE
S2	30 Aug 2016	Animal Life	2 Shorebirds; 15 Seagulls
S2	30 Aug 2016	Floatables	None
S2	30 Aug 2016	Water Color	Green
S2	30 Aug 2016	Current Direction	N
S2	30 Aug 2016	Water Temp (C)	18.9
S2	30 Aug 2016	Wave Height Low (ft)	2
S2	30 Aug 2016	High Tide (ft)	4.7
S2	30 Aug 2016	High Tide Time	903
S2	30 Aug 2016	Low Tide (ft)	1.3

Station	Date	Parameter	Value
S2	30 Aug 2016	Low Tide Time	1438
S2	30 Aug 2016	Comments	Kelp; Seagrass; Water clear; No flow from stormdrain
S3	02 Aug 2016	Arrive Time	930
S3	02 Aug 2016	Weather	Partly Cloudy
S3	02 Aug 2016	Wind Speed (kts)	2.3
S3	02 Aug 2016	Wind Dir	NE
S3	02 Aug 2016	Animal Life	5 Shorebirds
S3	02 Aug 2016	Floatables	None
S3	02 Aug 2016	Water Color	Green
S3	02 Aug 2016	Current Direction	N
S3	02 Aug 2016	Water Temp (C)	22
S3	02 Aug 2016	Wave Height Low (ft)	2
S3	02 Aug 2016	High Tide (ft)	4.5
S3	02 Aug 2016	High Tide Time	1003
S3	02 Aug 2016	Low Tide (ft)	-0.9
S3	02 Aug 2016	Low Tide Time	349
S3	02 Aug 2016	Comments	Kelp; Water clear; No flow from stormdrain
S3	09 Aug 2016	Arrive Time	915
S3	09 Aug 2016	Weather	Cloudy
S3	09 Aug 2016	Wind Speed (kts)	3.9
S3	09 Aug 2016	Wind Dir	SW
S3	09 Aug 2016	Animal Life	5 Dogs; >20 Seagulls
S3	09 Aug 2016	Floatables	None
S3	09 Aug 2016	Water Color	Green
S3	09 Aug 2016	Current Direction	N
S3	09 Aug 2016	Water Temp (C)	22
S3	09 Aug 2016	Wave Height Low (ft)	2
S3	09 Aug 2016	High Tide (ft)	4.3
S3	09 Aug 2016	High Tide Time	1436
S3	09 Aug 2016	Low Tide (ft)	1.7
S3	09 Aug 2016	Low Tide Time	749
S3	09 Aug 2016	Comments	Kelp; Algae; 5 Surfers; Water turbid; No flow from stormdrain
S3	16 Aug 2016	Arrive Time	940
S3	16 Aug 2016	Weather	Cloudy
S3	16 Aug 2016	Wind Speed (kts)	2.5
S3	16 Aug 2016	Wind Dir	N
S3	16 Aug 2016	Animal Life	5 Shorebirds; 1 Dog; 5 Seagulls
S3	16 Aug 2016	Floatables	None
S3	16 Aug 2016	Water Color	Green
S3	16 Aug 2016	Current Direction	N
S3	16 Aug 2016	Water Temp (C)	18.1
S3	16 Aug 2016	Wave Height Low (ft)	3
S3	16 Aug 2016	High Tide (ft)	4.3
S3	16 Aug 2016	High Tide Time	902
S3	16 Aug 2016	Low Tide (ft)	1.6
S3	16 Aug 2016	Low Tide Time	1423
S3	16 Aug 2016	Comments	Kelp; Algae; 10 Persons; Water clear; No flow from stormdrain
S3	23 Aug 2016	Arrive Time	915
S3	23 Aug 2016	Weather	Cloudy
S3	23 Aug 2016	Wind Speed (kts)	1.8
S3	23 Aug 2016	Wind Dir	SE

Station	Date	Parameter	Value
S3	23 Aug 2016	Animal Life	5 Dogs; 15 Seagulls
S3	23 Aug 2016	Floatables	None
S3	23 Aug 2016	Water Color	Green
S3	23 Aug 2016	Current Direction	SE
S3	23 Aug 2016	Water Temp (C)	17.5
S3	23 Aug 2016	Wave Height Low (ft)	3
S3	23 Aug 2016	High Tide (ft)	5.2
S3	23 Aug 2016	High Tide Time	1336
S3	23 Aug 2016	Low Tide (ft)	1.2
S3	23 Aug 2016	Low Tide Time	709
S3	23 Aug 2016	Comments	Kelp; Seagrass; Algae; Water clear; No flow from stormdrain
S3	30 Aug 2016	Arrive Time	925
S3	30 Aug 2016	Weather	Sunny
S3	30 Aug 2016	Wind Speed (kts)	1.3
S3	30 Aug 2016	Wind Dir	NE
S3	30 Aug 2016	Animal Life	3 Dogs; 15 Seagulls
S3	30 Aug 2016	Floatables	None
S3	30 Aug 2016	Water Color	Green
S3	30 Aug 2016	Current Direction	N
S3	30 Aug 2016	Water Temp (C)	19
S3	30 Aug 2016	Wave Height Low (ft)	2
S3	30 Aug 2016	High Tide (ft)	4.7
S3	30 Aug 2016	High Tide Time	903
S3	30 Aug 2016	Low Tide (ft)	1.3
S3	30 Aug 2016	Low Tide Time	1438
S3	30 Aug 2016	Comments	Kelp; Seagrass; 10 Persons; 5 Surfers; Water clear; No flow from stormdrain
S4	02 Aug 2016	Arrive Time	922
S4	02 Aug 2016	Weather	Cloudy
S4	02 Aug 2016	Wind Speed (kts)	6.4
S4	02 Aug 2016	Wind Dir	NW
S4	02 Aug 2016	Animal Life	None
S4	02 Aug 2016	Floatables	None
S4	02 Aug 2016	Water Color	Green
S4	02 Aug 2016	Current Direction	N
S4	02 Aug 2016	Water Temp (C)	21.3
S4	02 Aug 2016	Wave Height Low (ft)	2
S4	02 Aug 2016	High Tide (ft)	4.5
S4	02 Aug 2016	High Tide Time	1003
S4	02 Aug 2016	Low Tide (ft)	-0.9
S4	02 Aug 2016	Low Tide Time	349
S4	02 Aug 2016	Comments	Kelp; Seagrass; Debris; Water clear
S4	09 Aug 2016	Arrive Time	1238
S4	09 Aug 2016	Weather	Sunny
S4	09 Aug 2016	Wind Speed (kts)	7.5
S4	09 Aug 2016	Wind Dir	W
S4	09 Aug 2016	Animal Life	None
S4	09 Aug 2016	Floatables	None
S4	09 Aug 2016	Water Color	Green
S4	09 Aug 2016	Current Direction	N
S4	09 Aug 2016	Water Temp (C)	23.4
S4	09 Aug 2016	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S4	09 Aug 2016	High Tide (ft)	4.3
S4	09 Aug 2016	High Tide Time	1436
S4	09 Aug 2016	Low Tide (ft)	1.7
S4	09 Aug 2016	Low Tide Time	749
S4	09 Aug 2016	Comments	Water clear
S4	16 Aug 2016	Arrive Time	902
S4	16 Aug 2016	Weather	Sunny
S4	16 Aug 2016	Wind Speed (kts)	3.6
S4	16 Aug 2016	Wind Dir	NW
S4	16 Aug 2016	Animal Life	None
S4	16 Aug 2016	Floatables	None
S4	16 Aug 2016	Water Color	Green
S4	16 Aug 2016	Current Direction	N
S4	16 Aug 2016	Water Temp (C)	16.4
S4	16 Aug 2016	Wave Height Low (ft)	3
S4	16 Aug 2016	High Tide (ft)	4.3
S4	16 Aug 2016	High Tide Time	902
S4	16 Aug 2016	Low Tide (ft)	1.6
S4	16 Aug 2016	Low Tide Time	1423
S4	16 Aug 2016	Comments	Seagrass; Water clear
S4	23 Aug 2016	Arrive Time	1311
S4	23 Aug 2016	Weather	Sunny
S4	23 Aug 2016	Wind Speed (kts)	3.8
S4	23 Aug 2016	Wind Dir	W
S4	23 Aug 2016	Animal Life	None
S4	23 Aug 2016	Floatables	None
S4	23 Aug 2016	Water Color	Green
S4	23 Aug 2016	Current Direction	N
S4	23 Aug 2016	Water Temp (C)	18
S4	23 Aug 2016	Wave Height Low (ft)	2
S4	23 Aug 2016	High Tide (ft)	5.2
S4	23 Aug 2016	High Tide Time	1336
S4	23 Aug 2016	Low Tide (ft)	1.2
S4	23 Aug 2016	Low Tide Time	709
S4	23 Aug 2016	Comments	Kelp; Seagrass; Water clear; Water appears dirty and foamy
S4	30 Aug 2016	Arrive Time	844
S4	30 Aug 2016	Weather	Partly Cloudy
S4	30 Aug 2016	Wind Speed (kts)	4.6
S4	30 Aug 2016	Wind Dir	W
S4	30 Aug 2016	Animal Life	None
S4	30 Aug 2016	Floatables	None
S4	30 Aug 2016	Water Color	Green
S4	30 Aug 2016	Current Direction	N
S4	30 Aug 2016	Water Temp (C)	18.8
S4	30 Aug 2016	Wave Height Low (ft)	2
S4	30 Aug 2016	High Tide (ft)	4.7
S4	30 Aug 2016	High Tide Time	903
S4	30 Aug 2016	Low Tide (ft)	-0.4
S4	30 Aug 2016	Low Tide Time	251
S4	30 Aug 2016	Comments	Kelp; Seagrass; Water clear
S5	02 Aug 2016	Arrive Time	1043

Station	Date	Parameter	Value
S5	02 Aug 2016	Weather	Sunny
S5	02 Aug 2016	Wind Speed (kts)	7.9
S5	02 Aug 2016	Wind Dir	NW
S5	02 Aug 2016	Animal Life	None
S5	02 Aug 2016	Floatables	None
S5	02 Aug 2016	Water Color	Green
S5	02 Aug 2016	Current Direction	N
S5	02 Aug 2016	Water Temp (C)	21.5
S5	02 Aug 2016	Wave Height Low (ft)	2
S5	02 Aug 2016	High Tide (ft)	4.5
S5	02 Aug 2016	High Tide Time	1003
S5	02 Aug 2016	Low Tide (ft)	1.4
S5	02 Aug 2016	Low Tide Time	1526
S5	02 Aug 2016	Comments	Kelp; Seagrass; Water clear
S5	09 Aug 2016	Arrive Time	1057
S5	09 Aug 2016	Weather	Sunny
S5	09 Aug 2016	Wind Speed (kts)	8.9
S5	09 Aug 2016	Wind Dir	W
S5	09 Aug 2016	Animal Life	None
S5	09 Aug 2016	Floatables	None
S5	09 Aug 2016	Water Color	Green
S5	09 Aug 2016	Current Direction	N
S5	09 Aug 2016	Water Temp (C)	21
S5	09 Aug 2016	Wave Height Low (ft)	3
S5	09 Aug 2016	High Tide (ft)	4.3
S5	09 Aug 2016	High Tide Time	1436
S5	09 Aug 2016	Low Tide (ft)	1.7
S5	09 Aug 2016	Low Tide Time	749
S5	09 Aug 2016	Comments	Algae; Water clear
S5	16 Aug 2016	Arrive Time	1042
S5	16 Aug 2016	Weather	Sunny
S5	16 Aug 2016	Wind Speed (kts)	10.1
S5	16 Aug 2016	Wind Dir	W
S5	16 Aug 2016	Animal Life	None
S5	16 Aug 2016	Floatables	None
S5	16 Aug 2016	Water Color	Green
S5	16 Aug 2016	Current Direction	N
S5	16 Aug 2016	Water Temp (C)	18.4
S5	16 Aug 2016	Wave Height Low (ft)	2
S5	16 Aug 2016	High Tide (ft)	4.3
S5	16 Aug 2016	High Tide Time	902
S5	16 Aug 2016	Low Tide (ft)	1.6
S5	16 Aug 2016	Low Tide Time	1423
S5	16 Aug 2016	Comments	Water clear
S5	23 Aug 2016	Arrive Time	735
S5	23 Aug 2016	Weather	Cloudy
S5	23 Aug 2016	Wind Speed (kts)	0.9
S5	23 Aug 2016	Wind Dir	W
S5	23 Aug 2016	Animal Life	None
S5	23 Aug 2016	Floatables	None
S5	23 Aug 2016	Water Color	Green
S5	23 Aug 2016	Current Direction	N

Station	Date	Parameter	Value
S5	23 Aug 2016	Water Temp (C)	18.2
S5	23 Aug 2016	Wave Height Low (ft)	1
S5	23 Aug 2016	High Tide (ft)	5.2
S5	23 Aug 2016	High Tide Time	1336
S5	23 Aug 2016	Low Tide (ft)	1.2
S5	23 Aug 2016	Low Tide Time	709
S5	23 Aug 2016	Comments	Water clear; Slight rotten smell
S5	30 Aug 2016	Arrive Time	1007
S5	30 Aug 2016	Weather	Partly Cloudy
S5	30 Aug 2016	Wind Speed (kts)	6.4
S5	30 Aug 2016	Wind Dir	W
S5	30 Aug 2016	Animal Life	None
S5	30 Aug 2016	Floatables	None
S5	30 Aug 2016	Water Color	Green
S5	30 Aug 2016	Current Direction	N
S5	30 Aug 2016	Water Temp (C)	19.6
S5	30 Aug 2016	Wave Height Low (ft)	1
S5	30 Aug 2016	High Tide (ft)	4.7
S5	30 Aug 2016	High Tide Time	903
S5	30 Aug 2016	Low Tide (ft)	1.3
S5	30 Aug 2016	Low Tide Time	1438
S5	30 Aug 2016	Comments	Seagrass; Water clear; Mouth of the river shifted about 50 yards north
S6	02 Aug 2016	Arrive Time	1030
S6	02 Aug 2016	Weather	Sunny
S6	02 Aug 2016	Wind Speed (kts)	7.5
S6	02 Aug 2016	Wind Dir	NW
S6	02 Aug 2016	Animal Life	None
S6	02 Aug 2016	Floatables	None
S6	02 Aug 2016	Water Color	Green
S6	02 Aug 2016	Current Direction	N
S6	02 Aug 2016	Water Temp (C)	22.6
S6	02 Aug 2016	Wave Height Low (ft)	3
S6	02 Aug 2016	High Tide (ft)	4.5
S6	02 Aug 2016	High Tide Time	1003
S6	02 Aug 2016	Low Tide (ft)	1.4
S6	02 Aug 2016	Low Tide Time	1526
S6	02 Aug 2016	Comments	Kelp; Seagrass; Water clear
S6	09 Aug 2016	Arrive Time	1047
S6	09 Aug 2016	Weather	Hazy
S6	09 Aug 2016	Wind Speed (kts)	5.2
S6	09 Aug 2016	Wind Dir	W
S6	09 Aug 2016	Animal Life	1 Dog
S6	09 Aug 2016	Floatables	None
S6	09 Aug 2016	Water Color	Green
S6	09 Aug 2016	Current Direction	N
S6	09 Aug 2016	Water Temp (C)	21
S6	09 Aug 2016	Wave Height Low (ft)	3
S6	09 Aug 2016	High Tide (ft)	4.3
S6	09 Aug 2016	High Tide Time	1436
S6	09 Aug 2016	Low Tide (ft)	1.7
S6	09 Aug 2016	Low Tide Time	749

Station	Date	Parameter	Value
S6	09 Aug 2016	Comments	Water clear
S6	16 Aug 2016	Arrive Time	1029
S6	16 Aug 2016	Weather	Sunny
S6	16 Aug 2016	Wind Speed (kts)	10.3
S6	16 Aug 2016	Wind Dir	W
S6	16 Aug 2016	Animal Life	None
S6	16 Aug 2016	Floatables	None
S6	16 Aug 2016	Water Color	Green
S6	16 Aug 2016	Current Direction	N
S6	16 Aug 2016	Water Temp (C)	18.6
S6	16 Aug 2016	Wave Height Low (ft)	3
S6	16 Aug 2016	High Tide (ft)	4.3
S6	16 Aug 2016	High Tide Time	902
S6	16 Aug 2016	Low Tide (ft)	1.6
S6	16 Aug 2016	Low Tide Time	1423
S6	16 Aug 2016	Comments	Kelp; Seagrass; Water clear
S6	23 Aug 2016	Arrive Time	724
S6	23 Aug 2016	Weather	Cloudy
S6	23 Aug 2016	Wind Speed (kts)	0.7
S6	23 Aug 2016	Wind Dir	W
S6	23 Aug 2016	Animal Life	None
S6	23 Aug 2016	Floatables	None
S6	23 Aug 2016	Water Color	Green
S6	23 Aug 2016	Current Direction	N
S6	23 Aug 2016	Water Temp (C)	17.6
S6	23 Aug 2016	Wave Height Low (ft)	1
S6	23 Aug 2016	High Tide (ft)	5.2
S6	23 Aug 2016	High Tide Time	1336
S6	23 Aug 2016	Low Tide (ft)	1.2
S6	23 Aug 2016	Low Tide Time	709
S6	23 Aug 2016	Comments	1 Surfer; Water clear
S6	30 Aug 2016	Arrive Time	953
S6	30 Aug 2016	Weather	Sunny
S6	30 Aug 2016	Wind Speed (kts)	6.9
S6	30 Aug 2016	Wind Dir	W
S6	30 Aug 2016	Animal Life	None
S6	30 Aug 2016	Floatables	None
S6	30 Aug 2016	Water Color	Green
S6	30 Aug 2016	Current Direction	N
S6	30 Aug 2016	Water Temp (C)	19
S6	30 Aug 2016	Wave Height Low (ft)	2
S6	30 Aug 2016	High Tide (ft)	4.7
S6	30 Aug 2016	High Tide Time	903
S6	30 Aug 2016	Low Tide (ft)	1.3
S6	30 Aug 2016	Low Tide Time	1438
S6	30 Aug 2016	Comments	Water clear
S8	02 Aug 2016	Arrive Time	1236
S8	02 Aug 2016	Weather	Sunny
S8	02 Aug 2016	Wind Speed (kts)	9.7
S8	02 Aug 2016	Wind Dir	NW
S8	02 Aug 2016	Animal Life	None

Station	Date	Parameter	Value
S8	02 Aug 2016	Floatables	None
S8	02 Aug 2016	Water Color	Green
S8	02 Aug 2016	Current Direction	N
S8	02 Aug 2016	Water Temp (C)	23.6
S8	02 Aug 2016	Wave Height Low (ft)	2
S8	02 Aug 2016	High Tide (ft)	4.5
S8	02 Aug 2016	High Tide Time	1003
S8	02 Aug 2016	Low Tide (ft)	1.4
S8	02 Aug 2016	Low Tide Time	1526
S8	02 Aug 2016	Comments	Kelp; Seagrass; 14 Persons; 14 Swimmers; Water clear
S8	09 Aug 2016	Arrive Time	1003
S8	09 Aug 2016	Weather	Hazy
S8	09 Aug 2016	Wind Speed (kts)	6.6
S8	09 Aug 2016	Wind Dir	W
S8	09 Aug 2016	Animal Life	None
S8	09 Aug 2016	Floatables	None
S8	09 Aug 2016	Water Color	Green
S8	09 Aug 2016	Current Direction	N
S8	09 Aug 2016	Water Temp (C)	21.4
S8	09 Aug 2016	Wave Height Low (ft)	2
S8	09 Aug 2016	High Tide (ft)	4.3
S8	09 Aug 2016	High Tide Time	1436
S8	09 Aug 2016	Low Tide (ft)	1.7
S8	09 Aug 2016	Low Tide Time	749
S8	09 Aug 2016	Comments	2 Persons; Water clear
S8	16 Aug 2016	Arrive Time	1213
S8	16 Aug 2016	Weather	Sunny
S8	16 Aug 2016	Wind Speed (kts)	8.3
S8	16 Aug 2016	Wind Dir	W
S8	16 Aug 2016	Animal Life	None
S8	16 Aug 2016	Floatables	None
S8	16 Aug 2016	Water Color	Green
S8	16 Aug 2016	Current Direction	N
S8	16 Aug 2016	Water Temp (C)	20
S8	16 Aug 2016	Wave Height Low (ft)	2
S8	16 Aug 2016	High Tide (ft)	4.3
S8	16 Aug 2016	High Tide Time	902
S8	16 Aug 2016	Low Tide (ft)	1.6
S8	16 Aug 2016	Low Tide Time	1423
S8	16 Aug 2016	Comments	1 Person; 2 Surfers; Water clear
S8	23 Aug 2016	Arrive Time	807
S8	23 Aug 2016	Weather	Cloudy
S8	23 Aug 2016	Wind Speed (kts)	1.9
S8	23 Aug 2016	Wind Dir	W
S8	23 Aug 2016	Animal Life	1 Seagull
S8	23 Aug 2016	Floatables	None
S8	23 Aug 2016	Water Color	Green
S8	23 Aug 2016	Current Direction	N
S8	23 Aug 2016	Water Temp (C)	18.2
S8	23 Aug 2016	Wave Height Low (ft)	1
S8	23 Aug 2016	High Tide (ft)	5.2
S8	23 Aug 2016	High Tide Time	1336

Station	Date	Parameter	Value
S8	23 Aug 2016	Low Tide (ft)	1.2
S8	23 Aug 2016	Low Tide Time	709
S8	23 Aug 2016	Comments	Seagrass; Water clear
S8	30 Aug 2016	Arrive Time	1156
S8	30 Aug 2016	Weather	Sunny
S8	30 Aug 2016	Wind Speed (kts)	4.9
S8	30 Aug 2016	Wind Dir	W
S8	30 Aug 2016	Animal Life	None
S8	30 Aug 2016	Floatables	None
S8	30 Aug 2016	Water Color	Green
S8	30 Aug 2016	Current Direction	N
S8	30 Aug 2016	Water Temp (C)	19.8
S8	30 Aug 2016	Wave Height Low (ft)	2
S8	30 Aug 2016	High Tide (ft)	4.7
S8	30 Aug 2016	High Tide Time	903
S8	30 Aug 2016	Low Tide (ft)	1.3
S8	30 Aug 2016	Low Tide Time	1438
S8	30 Aug 2016	Comments	Kelp; 1 Person; Water clear
S9	02 Aug 2016	Arrive Time	1312
S9	02 Aug 2016	Weather	Sunny
S9	02 Aug 2016	Wind Speed (kts)	6
S9	02 Aug 2016	Wind Dir	NW
S9	02 Aug 2016	Animal Life	None
S9	02 Aug 2016	Floatables	None
S9	02 Aug 2016	Water Color	Green
S9	02 Aug 2016	Current Direction	N
S9	02 Aug 2016	Water Temp (C)	25.6
S9	02 Aug 2016	Wave Height Low (ft)	2
S9	02 Aug 2016	High Tide (ft)	4.5
S9	02 Aug 2016	High Tide Time	1003
S9	02 Aug 2016	Low Tide (ft)	1.4
S9	02 Aug 2016	Low Tide Time	1526
S9	02 Aug 2016	Comments	Kelp; Seagrass; 2 Joggers; 22 Persons; 14 Surfers; 14 Swimmers; 1 Tractor; Water clear
S9	09 Aug 2016	Arrive Time	923
S9	09 Aug 2016	Weather	Partly Cloudy
S9	09 Aug 2016	Wind Speed (kts)	6.8
S9	09 Aug 2016	Wind Dir	W
S9	09 Aug 2016	Animal Life	None
S9	09 Aug 2016	Floatables	None
S9	09 Aug 2016	Water Color	Green
S9	09 Aug 2016	Current Direction	N
S9	09 Aug 2016	Water Temp (C)	20.6
S9	09 Aug 2016	Wave Height Low (ft)	2
S9	09 Aug 2016	High Tide (ft)	4.3
S9	09 Aug 2016	High Tide Time	1436
S9	09 Aug 2016	Low Tide (ft)	1.7
S9	09 Aug 2016	Low Tide Time	749
S9	09 Aug 2016	Comments	2 Persons; 20 Surfers; Water clear
S9	16 Aug 2016	Arrive Time	1251
S9	16 Aug 2016	Weather	Sunny

Station	Date	Parameter	Value
S9	16 Aug 2016	Wind Speed (kts)	8.5
S9	16 Aug 2016	Wind Dir	W
S9	16 Aug 2016	Animal Life	None
S9	16 Aug 2016	Floatables	None
S9	16 Aug 2016	Water Color	Green
S9	16 Aug 2016	Current Direction	N
S9	16 Aug 2016	Water Temp (C)	20.4
S9	16 Aug 2016	Wave Height Low (ft)	2
S9	16 Aug 2016	High Tide (ft)	4.3
S9	16 Aug 2016	High Tide Time	902
S9	16 Aug 2016	Low Tide (ft)	1.6
S9	16 Aug 2016	Low Tide Time	1423
S9	16 Aug 2016	Comments	Kelp; 9 Persons; 3 Surfers; Water clear
S9	23 Aug 2016	Arrive Time	832
S9	23 Aug 2016	Weather	Cloudy
S9	23 Aug 2016	Wind Speed (kts)	0.1
S9	23 Aug 2016	Wind Dir	W
S9	23 Aug 2016	Animal Life	None
S9	23 Aug 2016	Floatables	None
S9	23 Aug 2016	Water Color	Green
S9	23 Aug 2016	Current Direction	N
S9	23 Aug 2016	Water Temp (C)	17
S9	23 Aug 2016	Wave Height Low (ft)	1
S9	23 Aug 2016	High Tide (ft)	5.2
S9	23 Aug 2016	High Tide Time	1336
S9	23 Aug 2016	Low Tide (ft)	1.2
S9	23 Aug 2016	Low Tide Time	709
S9	23 Aug 2016	Comments	2 Persons; 1 Surfer; Water clear
S9	30 Aug 2016	Arrive Time	1238
S9	30 Aug 2016	Weather	Sunny
S9	30 Aug 2016	Wind Speed (kts)	4
S9	30 Aug 2016	Wind Dir	NW
S9	30 Aug 2016	Animal Life	None
S9	30 Aug 2016	Floatables	None
S9	30 Aug 2016	Water Color	Green
S9	30 Aug 2016	Current Direction	N
S9	30 Aug 2016	Water Temp (C)	21
S9	30 Aug 2016	Wave Height Low (ft)	1
S9	30 Aug 2016	High Tide (ft)	4.7
S9	30 Aug 2016	High Tide Time	903
S9	30 Aug 2016	Low Tide (ft)	1.3
S9	30 Aug 2016	Low Tide Time	1438
S9	30 Aug 2016	Comments	16 Persons; 8 Surfers; Water clear
S10	02 Aug 2016	Arrive Time	916
S10	02 Aug 2016	Weather	Cloudy
S10	02 Aug 2016	Wind Speed (kts)	6.8
S10	02 Aug 2016	Wind Dir	NW
S10	02 Aug 2016	Animal Life	None
S10	02 Aug 2016	Floatables	None
S10	02 Aug 2016	Water Color	Green
S10	02 Aug 2016	Current Direction	N
S10	02 Aug 2016	Water Temp (C)	22.8

Station	Date	Parameter	Value
S10	02 Aug 2016	Wave Height Low (ft)	3
S10	02 Aug 2016	High Tide (ft)	4.5
S10	02 Aug 2016	High Tide Time	1003
S10	02 Aug 2016	Low Tide (ft)	-0.9
S10	02 Aug 2016	Low Tide Time	349
S10	02 Aug 2016	Comments	Kelp; Seagrass; Water clear
S10	09 Aug 2016	Arrive Time	1232
S10	09 Aug 2016	Weather	Sunny
S10	09 Aug 2016	Wind Speed (kts)	8.1
S10	09 Aug 2016	Wind Dir	W
S10	09 Aug 2016	Animal Life	None
S10	09 Aug 2016	Floatables	None
S10	09 Aug 2016	Water Color	Green
S10	09 Aug 2016	Current Direction	N
S10	09 Aug 2016	Water Temp (C)	22.4
S10	09 Aug 2016	Wave Height Low (ft)	3
S10	09 Aug 2016	High Tide (ft)	4.3
S10	09 Aug 2016	High Tide Time	1436
S10	09 Aug 2016	Low Tide (ft)	1.7
S10	09 Aug 2016	Low Tide Time	749
S10	09 Aug 2016	Comments	Water clear
S10	16 Aug 2016	Arrive Time	855
S10	16 Aug 2016	Weather	Partly Cloudy
S10	16 Aug 2016	Wind Speed (kts)	5.2
S10	16 Aug 2016	Wind Dir	NW
S10	16 Aug 2016	Animal Life	None
S10	16 Aug 2016	Floatables	None
S10	16 Aug 2016	Water Color	Green
S10	16 Aug 2016	Current Direction	N
S10	16 Aug 2016	Water Temp (C)	16.6
S10	16 Aug 2016	Wave Height Low (ft)	2
S10	16 Aug 2016	High Tide (ft)	4.3
S10	16 Aug 2016	High Tide Time	902
S10	16 Aug 2016	Low Tide (ft)	1.6
S10	16 Aug 2016	Low Tide Time	1423
S10	16 Aug 2016	Comments	Seagrass; Water clear
S10	23 Aug 2016	Arrive Time	1304
S10	23 Aug 2016	Weather	Sunny
S10	23 Aug 2016	Wind Speed (kts)	3.4
S10	23 Aug 2016	Wind Dir	W
S10	23 Aug 2016	Animal Life	None
S10	23 Aug 2016	Floatables	None
S10	23 Aug 2016	Water Color	Green
S10	23 Aug 2016	Current Direction	N
S10	23 Aug 2016	Water Temp (C)	18.2
S10	23 Aug 2016	Wave Height Low (ft)	2
S10	23 Aug 2016	High Tide (ft)	5.2
S10	23 Aug 2016	High Tide Time	1336
S10	23 Aug 2016	Low Tide (ft)	1.2
S10	23 Aug 2016	Low Tide Time	709
S10	23 Aug 2016	Comments	Kelp; Seagrass; Water clear; Water appears dirty and foamy

Station	Date	Parameter	Value
S10	30 Aug 2016	Arrive Time	837
S10	30 Aug 2016	Weather	Partly Cloudy
S10	30 Aug 2016	Wind Speed (kts)	5.4
S10	30 Aug 2016	Wind Dir	W
S10	30 Aug 2016	Animal Life	None
S10	30 Aug 2016	Floatables	None
S10	30 Aug 2016	Water Color	Green
S10	30 Aug 2016	Current Direction	N
S10	30 Aug 2016	Water Temp (C)	18.4
S10	30 Aug 2016	Wave Height Low (ft)	3
S10	30 Aug 2016	High Tide (ft)	4.7
S10	30 Aug 2016	High Tide Time	903
S10	30 Aug 2016	Low Tide (ft)	-0.4
S10	30 Aug 2016	Low Tide Time	251
S10	30 Aug 2016	Comments	Kelp; Seagrass; Water clear
S11	02 Aug 2016	Arrive Time	1052
S11	02 Aug 2016	Weather	Sunny
S11	02 Aug 2016	Wind Speed (kts)	7.9
S11	02 Aug 2016	Wind Dir	NW
S11	02 Aug 2016	Animal Life	None
S11	02 Aug 2016	Floatables	None
S11	02 Aug 2016	Water Color	Green
S11	02 Aug 2016	Current Direction	N
S11	02 Aug 2016	Water Temp (C)	22.8
S11	02 Aug 2016	Wave Height Low (ft)	3
S11	02 Aug 2016	High Tide (ft)	4.5
S11	02 Aug 2016	High Tide Time	1003
S11	02 Aug 2016	Low Tide (ft)	1.4
S11	02 Aug 2016	Low Tide Time	1526
S11	02 Aug 2016	Comments	Kelp; Seagrass; Water clear
S11	09 Aug 2016	Arrive Time	1051
S11	09 Aug 2016	Weather	Hazy
S11	09 Aug 2016	Wind Speed (kts)	6.6
S11	09 Aug 2016	Wind Dir	W
S11	09 Aug 2016	Animal Life	None
S11	09 Aug 2016	Floatables	None
S11	09 Aug 2016	Water Color	Green
S11	09 Aug 2016	Current Direction	N
S11	09 Aug 2016	Water Temp (C)	22.2
S11	09 Aug 2016	Wave Height Low (ft)	3
S11	09 Aug 2016	High Tide (ft)	4.3
S11	09 Aug 2016	High Tide Time	1436
S11	09 Aug 2016	Low Tide (ft)	1.7
S11	09 Aug 2016	Low Tide Time	749
S11	09 Aug 2016	Comments	Water clear
S11	16 Aug 2016	Arrive Time	1036
S11	16 Aug 2016	Weather	Sunny
S11	16 Aug 2016	Wind Speed (kts)	10.3
S11	16 Aug 2016	Wind Dir	W
S11	16 Aug 2016	Animal Life	None
S11	16 Aug 2016	Floatables	None
S11	16 Aug 2016	Water Color	Green

Station	Date	Parameter	Value
S11	16 Aug 2016	Current Direction	N
S11	16 Aug 2016	Water Temp (C)	19.6
S11	16 Aug 2016	Wave Height Low (ft)	3
S11	16 Aug 2016	High Tide (ft)	4.3
S11	16 Aug 2016	High Tide Time	902
S11	16 Aug 2016	Low Tide (ft)	1.6
S11	16 Aug 2016	Low Tide Time	1423
S11	16 Aug 2016	Comments	Seagrass; Water clear
S11	23 Aug 2016	Arrive Time	728
S11	23 Aug 2016	Weather	Cloudy
S11	23 Aug 2016	Wind Speed (kts)	0.7
S11	23 Aug 2016	Wind Dir	W
S11	23 Aug 2016	Animal Life	None
S11	23 Aug 2016	Floatables	None
S11	23 Aug 2016	Water Color	Green
S11	23 Aug 2016	Current Direction	N
S11	23 Aug 2016	Water Temp (C)	17.8
S11	23 Aug 2016	Wave Height Low (ft)	2
S11	23 Aug 2016	High Tide (ft)	5.2
S11	23 Aug 2016	High Tide Time	1336
S11	23 Aug 2016	Low Tide (ft)	1.2
S11	23 Aug 2016	Low Tide Time	709
S11	23 Aug 2016	Comments	Seagrass; Water clear
S11	30 Aug 2016	Arrive Time	959
S11	30 Aug 2016	Weather	Partly Cloudy
S11	30 Aug 2016	Wind Speed (kts)	7.5
S11	30 Aug 2016	Wind Dir	W
S11	30 Aug 2016	Animal Life	None
S11	30 Aug 2016	Floatables	None
S11	30 Aug 2016	Water Color	Green
S11	30 Aug 2016	Current Direction	N
S11	30 Aug 2016	Water Temp (C)	20.1
S11	30 Aug 2016	Wave Height Low (ft)	2
S11	30 Aug 2016	High Tide (ft)	4.7
S11	30 Aug 2016	High Tide Time	903
S11	30 Aug 2016	Low Tide (ft)	1.3
S11	30 Aug 2016	Low Tide Time	1438
S11	30 Aug 2016	Comments	Kelp; Water clear
S12	02 Aug 2016	Arrive Time	1015
S12	02 Aug 2016	Weather	Sunny
S12	02 Aug 2016	Wind Speed (kts)	6.9
S12	02 Aug 2016	Wind Dir	NW
S12	02 Aug 2016	Animal Life	None
S12	02 Aug 2016	Floatables	None
S12	02 Aug 2016	Water Color	Green
S12	02 Aug 2016	Current Direction	N
S12	02 Aug 2016	Water Temp (C)	22.2
S12	02 Aug 2016	Wave Height Low (ft)	3
S12	02 Aug 2016	High Tide (ft)	4.5
S12	02 Aug 2016	High Tide Time	1003
S12	02 Aug 2016	Low Tide (ft)	1.4
S12	02 Aug 2016	Low Tide Time	1526

Station	Date	Parameter	Value
S12	02 Aug 2016	Comments	Kelp; Seagrass; 5 Persons; Water clear
S12	09 Aug 2016	Arrive Time	1035
S12	09 Aug 2016	Weather	Hazy
S12	09 Aug 2016	Wind Speed (kts)	5.8
S12	09 Aug 2016	Wind Dir	W
S12	09 Aug 2016	Animal Life	None
S12	09 Aug 2016	Floatables	None
S12	09 Aug 2016	Water Color	Green
S12	09 Aug 2016	Current Direction	N
S12	09 Aug 2016	Water Temp (C)	21.2
S12	09 Aug 2016	Wave Height Low (ft)	2
S12	09 Aug 2016	High Tide (ft)	4.3
S12	09 Aug 2016	High Tide Time	1436
S12	09 Aug 2016	Low Tide (ft)	1.7
S12	09 Aug 2016	Low Tide Time	749
S12	09 Aug 2016	Comments	Water clear
S12	16 Aug 2016	Arrive Time	1010
S12	16 Aug 2016	Weather	Sunny
S12	16 Aug 2016	Wind Speed (kts)	6.4
S12	16 Aug 2016	Wind Dir	W
S12	16 Aug 2016	Animal Life	2 Sand Pipers
S12	16 Aug 2016	Floatables	None
S12	16 Aug 2016	Water Color	Green
S12	16 Aug 2016	Current Direction	N
S12	16 Aug 2016	Water Temp (C)	20.2
S12	16 Aug 2016	Wave Height Low (ft)	2
S12	16 Aug 2016	High Tide (ft)	4.3
S12	16 Aug 2016	High Tide Time	902
S12	16 Aug 2016	Low Tide (ft)	1.6
S12	16 Aug 2016	Low Tide Time	1423
S12	16 Aug 2016	Comments	Seagrass; Water clear
S12	23 Aug 2016	Arrive Time	714
S12	23 Aug 2016	Weather	Cloudy
S12	23 Aug 2016	Wind Speed (kts)	1.7
S12	23 Aug 2016	Wind Dir	W
S12	23 Aug 2016	Animal Life	None
S12	23 Aug 2016	Floatables	None
S12	23 Aug 2016	Water Color	Green
S12	23 Aug 2016	Current Direction	N
S12	23 Aug 2016	Water Temp (C)	17.8
S12	23 Aug 2016	Wave Height Low (ft)	1
S12	23 Aug 2016	High Tide (ft)	4.2
S12	23 Aug 2016	High Tide Time	104
S12	23 Aug 2016	Low Tide (ft)	1.2
S12	23 Aug 2016	Low Tide Time	709
S12	23 Aug 2016	Comments	Seagrass; Water clear
S12	30 Aug 2016	Arrive Time	935
S12	30 Aug 2016	Weather	Partly Cloudy
S12	30 Aug 2016	Wind Speed (kts)	4.4
S12	30 Aug 2016	Wind Dir	W
S12	30 Aug 2016	Animal Life	None

Station	Date	Parameter	Value
S12	30 Aug 2016	Floatables	None
S12	30 Aug 2016	Water Color	Green
S12	30 Aug 2016	Current Direction	N
S12	30 Aug 2016	Water Temp (C)	18.4
S12	30 Aug 2016	Wave Height Low (ft)	2
S12	30 Aug 2016	High Tide (ft)	4.7
S12	30 Aug 2016	High Tide Time	903
S12	30 Aug 2016	Low Tide (ft)	1.3
S12	30 Aug 2016	Low Tide Time	1438
S12	30 Aug 2016	Comments	Water clear

Kelp Stations

Table 3.1

Summary of compliance with the Ocean Plan's 30-day Geometric Mean standard for total coliform bacteria at the SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >1,000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Aug 2016	7	4	3	3	3	3	3
02 Aug 2016	7	4	3	3	3	3	3
03 Aug 2016	7	4	3	3	3	3	3
04 Aug 2016	8	3	3	3	3	3	3
05 Aug 2016	8	3	3	3	3	3	3
06 Aug 2016	10	4	3	3	3	3	4
07 Aug 2016	10	4	3	3	3	3	4
08 Aug 2016	10	4	3	3	3	3	4
09 Aug 2016	10	4	3	3	3	3	4
10 Aug 2016	10	4	3	3	3	3	4
11 Aug 2016	8	3	3	3	3	3	3
12 Aug 2016	8	4	3	3	4	3	4
13 Aug 2016	8	4	3	3	4	3	4
14 Aug 2016	8	4	3	3	4	3	4
15 Aug 2016	8	4	3	3	4	3	4
16 Aug 2016	8	4	3	3	4	3	4
17 Aug 2016	8	4	3	3	4	3	4
18 Aug 2016	11*	4*	4*	3*	4*	4*	4*
19 Aug 2016	11*	4*	4*	3*	4*	4*	4*
20 Aug 2016	11*	4*	4*	3*	4*	4*	4*
21 Aug 2016	11*	4*	4*	3*	4*	4*	4*
22 Aug 2016	11*	4*	4*	3*	4*	4*	4*
23 Aug 2016	11*	4*	4*	3*	4*	4*	4*
24 Aug 2016	7*	3*	3*	3*	4*	3*	4*
25 Aug 2016	7*	3*	3*	3*	4*	3*	4*
26 Aug 2016	7*	3*	3*	3*	4*	3*	4*
27 Aug 2016	7	3	3	3	4	3	3
28 Aug 2016	7	3	3	3	4	3	3
29 Aug 2016	7	3	3	3	4	3	3
30 Aug 2016	4	2	2	2	3	2	3
31 Aug 2016	4	2	2	2	3	2	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 SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >200 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Aug 2016	2	2	2	2	2	2	2
02 Aug 2016	2	2	2	2	2	2	2
03 Aug 2016	2	2	2	2	2	2	2
04 Aug 2016	2	2	2	2	2	2	2
05 Aug 2016	2	2	2	2	2	2	2
06 Aug 2016	2	2	2	2	2	2	2
07 Aug 2016	2	2	2	2	2	2	2
08 Aug 2016	2	2	2	2	2	2	2
09 Aug 2016	2	2	2	2	2	2	2
10 Aug 2016	2	2	2	2	2	2	2
11 Aug 2016	2	2	2	2	2	2	2
12 Aug 2016	2	2	2	2	2	2	2
13 Aug 2016	2	2	2	2	2	2	2
14 Aug 2016	2	2	2	2	2	2	2
15 Aug 2016	2	2	2	2	2	2	2
16 Aug 2016	2	2	2	2	2	2	2
17 Aug 2016	2	2	2	2	2	2	2
18 Aug 2016	2*	2*	2*	2*	2*	2*	2*
19 Aug 2016	2*	2*	2*	2*	2*	2*	2*
20 Aug 2016	2*	2*	2*	2*	2*	2*	2*
21 Aug 2016	2*	2*	2*	2*	2*	2*	2*
22 Aug 2016	2*	2*	2*	2*	2*	2*	2*
23 Aug 2016	2*	2*	2*	2*	2*	2*	2*
24 Aug 2016	2*	2*	2*	2*	2*	2*	2*
25 Aug 2016	2*	2*	2*	2*	2*	2*	2*
26 Aug 2016	2*	2*	2*	2*	2*	2*	2*
27 Aug 2016	2	2	2	2	2	2	2
28 Aug 2016	2	2	2	2	2	2	2
29 Aug 2016	2	2	2	2	2	2	2
30 Aug 2016	2	2	2	2	2	2	2
31 Aug 2016	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 SBOO kelp stations. Data are based on the geometric mean of the five most recent samples from each site over the previous 30 days unless otherwise noted (*). Values >35 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Aug 2016	4	3	2	2	2	2	2
02 Aug 2016	4	3	2	2	2	2	2
03 Aug 2016	4	3	2	2	2	2	2
04 Aug 2016	3	3	2	2	2	2	2
05 Aug 2016	3	3	2	2	2	2	2
06 Aug 2016	4	3	3	2	2	2	2
07 Aug 2016	4	3	3	2	2	2	2
08 Aug 2016	4	3	3	2	2	2	2
09 Aug 2016	4	3	3	2	2	2	2
10 Aug 2016	4	3	3	2	2	2	2
11 Aug 2016	3	3	2	2	2	2	2
12 Aug 2016	4	3	3	2	2	2	2
13 Aug 2016	4	3	3	2	2	2	2
14 Aug 2016	4	3	3	2	2	2	2
15 Aug 2016	4	3	3	2	2	2	2
16 Aug 2016	4	3	3	2	2	2	2
17 Aug 2016	4	3	3	2	2	2	2
18 Aug 2016	4*	3*	3*	2*	2*	2*	3*
19 Aug 2016	4*	3*	3*	2*	2*	2*	3*
20 Aug 2016	4*	3*	3*	2*	2*	2*	3*
21 Aug 2016	4*	3*	3*	2*	2*	2*	3*
22 Aug 2016	4*	3*	3*	2*	2*	2*	3*
23 Aug 2016	4*	3*	3*	2*	2*	2*	3*
24 Aug 2016	4*	3*	3*	2*	2*	2*	3*
25 Aug 2016	4*	3*	3*	2*	2*	2*	3*
26 Aug 2016	4*	3*	3*	2*	2*	2*	3*
27 Aug 2016	4	3	3	2	2	2	2
28 Aug 2016	4	3	3	2	2	2	2
29 Aug 2016	4	3	3	2	2	2	2
30 Aug 2016	2	2	2	2	2	2	2
31 Aug 2016	2	2	2	2	2	2	2

* Geometric mean calculated using n<5

Table 3.4

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

Date	I19	I24	I25	I26	I32	I39	I40
03 Aug 2016	ns	ns	ns	ns	IC	ns	ns
04 Aug 2016	IC	IC	IC	IC	ns	IC	IC
11 Aug 2016	IC						
24 Aug 2016	IC						
27 Aug 2016	IC						
30 Aug 2016	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.5

Summary of compliance at the SBOO kelp stations with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I19	I24	I25	I26	I32	I39	I40
03 Aug 2016	ns	ns	ns	ns	IC	ns	ns
04 Aug 2016	IC	IC	IC	IC	ns	IC	IC
11 Aug 2016	IC						
24 Aug 2016	IC						
27 Aug 2016	IC						
30 Aug 2016	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.6

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

Date	I19	I24	I25	I26	I32	I39	I40
03 Aug 2016	ns	ns	ns	ns	IC	ns	ns
04 Aug 2016	IC	IC	IC	IC	ns	IC	IC
11 Aug 2016	IC						
24 Aug 2016	IC						
27 Aug 2016	IC						
30 Aug 2016	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.7

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

Date	I19	I24	I25	I26	I32	I39	I40
03 Aug 2016	ns	ns	ns	ns	IC	ns	ns
04 Aug 2016	IC	IC	IC	IC	ns	IC	IC
11 Aug 2016	IC						
24 Aug 2016	IC						
27 Aug 2016	IC						
30 Aug 2016	IC						

IC = In Compliance

E = Exceedance

ns = not sampled

Table 3.8

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

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I19	04 Aug 2016	931	2	<20	<2	<2	0.1	21.2	70.08	6.5	33.48	8.2	<0.2	2.8
I19	04 Aug 2016	931	6	<2	<2	<2	1.0	18.0	73.32	6.8	33.39	8.1	ns	<0.2
I19	04 Aug 2016	931	11	<20	<2	<2	0.1	17.8	65.91	6.2	33.40	8.1	ns	4.7
I19	11 Aug 2016	1024	2	<2	2e	<2	1.0	22.7	76.01	7.6	33.62	8.3	ns	ns
I19	11 Aug 2016	1024	6	<2	<2	<2	1.0	20.2	79.60	7.1	33.44	8.3	ns	ns
I19	11 Aug 2016	1024	11	<2	<2	<2	1.0	18.6	63.38	7.3	33.41	8.2	ns	ns
I19	24 Aug 2016	1148	2	<2	<2	<2	1.0	17.0	71.06	8.2	33.18	8.2	ns	ns
I19	24 Aug 2016	1148	6	<2	<2	<2	1.0	15.3	75.68	8.1	33.27	8.2	ns	ns
I19	24 Aug 2016	1148	11	<2	<2	<2	1.0	15.1	74.11	8.2	33.28	8.1	ns	ns
I19	27 Aug 2016	1046	2	<2	<2	<2	1.0	19.7	75.24	6.6	33.41	8.2	ns	ns
I19	27 Aug 2016	1046	6	<2	<2	<2	1.0	16.2	67.57	5.9	33.41	8.1	ns	ns
I19	27 Aug 2016	1046	11	<20	<2	<2	0.1	15.2	64.41	7.0	33.44	8.1	ns	ns
I19	30 Aug 2016	1114	2	<2	<2	<2	1.0	19.2	74.71	7.6	33.37	8.2	ns	ns
I19	30 Aug 2016	1114	6	<2	<2	8e	1.0	18.8	73.80	7.0	33.39	8.2	ns	ns
I19	30 Aug 2016	1114	11	<2	2e	<2	1.0	17.2	61.33	8.0	33.24	8.1	ns	ns
I24	04 Aug 2016	850	2	<2	<2	<2	1.0	20.5	75.19	7.0	33.44	8.2	<0.2	<0.2
I24	04 Aug 2016	850	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	3.1*
I24	04 Aug 2016	850	6	2e	<2	<2	1.0	17.6	78.10	6.9	33.39	8.1	ns	3.0
I24	04 Aug 2016	850	11	2e	<2	<2	1.0	17.3	77.70	6.8	33.40	8.1	ns	3.0
I24	11 Aug 2016	1042	2	<2	<2	<2	1.0	23.1	78.68	8.1	33.66	8.3	ns	ns
I24	11 Aug 2016	1042	6	<2	<2	<2	1.0	21.8	78.04	7.2	33.55	8.3	ns	ns
I24	11 Aug 2016	1042	11	<2	<2	<2	1.0	17.9	76.06	6.8	33.40	8.1	ns	ns
I24	24 Aug 2016	1215	2	<2	<2	<2	1.0	17.2	75.19	7.7	33.18	8.2	ns	ns
I24	24 Aug 2016	1215	6	<2	<2	<2	1.0	15.6	79.83	7.1	33.21	8.2	ns	ns
I24	24 Aug 2016	1215	11	<2	<2	<2	1.0	15.0	79.84	7.4	33.27	8.1	ns	ns
I24	27 Aug 2016	1106	2	<2	<2	<2	1.0	19.8	80.91	7.6	33.41	8.2	ns	ns
I24	27 Aug 2016	1106	6	<2	<2	<2	1.0	16.0	76.13	6.7	33.27	8.2	ns	ns
I24	27 Aug 2016	1106	11	<2	<2	<2	1.0	15.0	68.99	7.2	33.26	8.1	ns	ns
I24	30 Aug 2016	1138	2	<2	<2	<2	1.0	19.1	80.52	7.5	33.29	8.2	ns	ns
I24	30 Aug 2016	1138	6	<2	<2	<2	1.0	17.1	72.08	5.5	33.45	8.2	ns	ns
I24	30 Aug 2016	1138	11	<2	<2	<2	1.0	14.7	65.12	4.7	33.35	8.1	ns	ns
I25	04 Aug 2016	840	2	2e	<2	10e	1.0	21.0	73.10	5.8	33.45	8.2	<0.2	3.2
I25	04 Aug 2016	840	6	<2	<2	<2	1.0	17.9	74.12	6.4	33.41	8.1	ns	6.0
I25	04 Aug 2016	840	9	<2	<2	<2	1.0	17.9	72.29	6.4	33.41	8.1	ns	7.3
I25	11 Aug 2016	1049	2	<2	<2	2e	1.0	23.0	77.17	8.0	33.65	8.3	ns	ns

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	11 Aug 2016	1049	6	2e	<2	<2	1.0	21.1	78.35	6.0	33.54	8.3	ns	ns
I25	11 Aug 2016	1049	9	2e	<2	<2	1.0	18.6	77.75	6.2	33.41	8.1	ns	ns
I25	24 Aug 2016	1226	2	<2	<2	<2	1.0	19.4	79.34	7.2	33.32	8.2	ns	ns
I25	24 Aug 2016	1226	6	<2	<2	<2	1.0	16.1	78.82	7.2	33.27	8.1	ns	ns
I25	24 Aug 2016	1226	9	<2	<2	<2	1.0	15.3	77.55	7.3	33.26	8.1	ns	ns
I25	27 Aug 2016	1114	2	<2	<2	<2	1.0	19.7	81.62	7.4	33.41	8.2	ns	ns
I25	27 Aug 2016	1114	6	<2	<2	<2	1.0	16.4	76.82	6.9	33.23	8.2	ns	ns
I25	27 Aug 2016	1114	9	<2	<2	<2	1.0	15.4	77.28	7.7	33.27	8.1	ns	ns
I25	30 Aug 2016	1148	2	<2	<2	<2	1.0	19.2	78.42	7.8	33.38	8.2	ns	ns
I25	30 Aug 2016	1148	6	<2	<2	<2	1.0	17.1	75.05	8.1	33.51	8.2	ns	ns
I25	30 Aug 2016	1148	9	<2	<2	<2	1.0	15.1	72.46	7.0	33.81	8.1	ns	ns
I26	04 Aug 2016	828	2	2e	2e	<2	1.0	22.4	77.39	7.5	33.52	8.3	<0.2	2.5
I26	04 Aug 2016	828	6	<2	<2	<2	1.0	18.3	77.41	6.9	33.38	8.2	ns	<0.2
I26	04 Aug 2016	828	9	2e	<2	<2	1.0	17.5	78.11	7.1	33.39	8.1	ns	3.2
I26	11 Aug 2016	1100	2	<2	<2	<2	1.0	22.9	76.13	6.9	33.62	8.3	ns	ns
I26	11 Aug 2016	1100	6	2e	<2	<2	1.0	19.1	76.72	6.6	33.41	8.2	ns	ns
I26	11 Aug 2016	1100	9	<2	<2	<2	1.0	18.3	76.95	6.2	33.40	8.1	ns	ns
I26	24 Aug 2016	1236	2	<2	<2	<2	1.0	19.1	77.30	7.7	33.35	8.2	ns	ns
I26	24 Aug 2016	1236	6	<2	<2	<2	1.0	15.8	76.17	7.6	33.29	8.2	ns	ns
I26	24 Aug 2016	1236	9	<2	<2	<2	1.0	15.4	78.57	7.8	33.28	8.1	ns	ns
I26	27 Aug 2016	1124	2	<2	<2	<2	1.0	19.5	80.87	8.3	33.42	8.2	ns	ns
I26	27 Aug 2016	1124	6	2e	<2	<2	1.0	17.8	78.41	7.7	33.32	8.2	ns	ns
I26	27 Aug 2016	1124	9	<2	<2	<2	1.0	15.4	79.16	8.0	33.28	8.2	ns	ns
I26	30 Aug 2016	1208	2	<2	<2	<2	1.0	19.3	79.45	8.2	33.42	8.2	ns	ns
I26	30 Aug 2016	1208	6	<2	<2	<2	1.0	17.4	75.33	8.2	33.35	8.2	ns	ns
I26	30 Aug 2016	1208	9	<2	<2	<2	1.0	15.1	72.27	6.6	33.25	8.1	ns	ns
I32	03 Aug 2016	951	2	16e	2e	<2	0.1	22.5	71.87	7.1	33.52	8.2	<5.1	<0.2
I32	03 Aug 2016	951	6	4e	<2	<2	0.5	18.8	76.45	7.2	33.41	8.2	ns	<0.2
I32	03 Aug 2016	951	9	<2	<2	<2	1.0	17.4	73.77	6.2	33.40	8.1	ns	<0.2
I32	11 Aug 2016	1111	2	<2	<2	<2	1.0	22.4	72.45	7.5	33.59	8.3	ns	ns
I32	11 Aug 2016	1111	6	<2	2e	<2	1.0	20.7	72.66	6.4	33.50	8.2	ns	ns
I32	11 Aug 2016	1111	9	4e	<2	<2	0.5	19.3	69.11	6.5	33.39	8.1	ns	ns
I32	24 Aug 2016	1252	2	<2	<2	<2	1.0	19.5	74.63	6.3	33.36	8.2	ns	ns
I32	24 Aug 2016	1252	6	2e	<2	<2	1.0	15.6	68.35	6.5	33.30	8.1	ns	ns
I32	24 Aug 2016	1252	9	<2	<2	<2	1.0	15.4	71.02	6.7	33.29	8.1	ns	ns
I32	27 Aug 2016	1136	2	2e	<2	<2	1.0	19.8	75.71	7.3	33.42	8.2	ns	ns
I32	27 Aug 2016	1136	6	<2	<2	<2	1.0	16.0	74.38	7.3	33.23	8.2	ns	ns
I32	27 Aug 2016	1136	9	6e	6e	2e	1.0	15.3	71.48	7.5	33.24	8.1	ns	ns
I32	30 Aug 2016	1221	2	<2	<2	<2	1.0	19.6	78.21	7.9	33.40	8.2	ns	ns
I32	30 Aug 2016	1221	6	<2	<2	<2	1.0	19.1	69.75	7.8	33.35	8.2	ns	ns
I32	30 Aug 2016	1221	9	<2	<2	<2	1.0	18.3	67.47	8.1	33.37	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Enteric	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I39	04 Aug 2016	813	2	<2	<2	<2	1.0	22.4	78.55	7.6	33.53	8.3	<5.1	<0.2
I39	04 Aug 2016	813	12	2e	2e	<2	1.0	16.4	81.99	7.1	33.34	8.2	ns	2.5
I39	04 Aug 2016	813	18	6e	<2	<2	0.3	15.8	82.62	7.1	33.37	8.1	ns	3.2
I39	11 Aug 2016	1005	2	<2	<2	<2	1.0	22.3	76.08	8.0	33.62	8.3	ns	ns
I39	11 Aug 2016	1005	12	<2	<2	<2	1.0	16.4	83.81	7.9	33.32	8.2	ns	ns
I39	11 Aug 2016	1005	18	<2	<2	<2	1.0	15.2	84.61	6.0	33.33	8.1	ns	ns
I39	24 Aug 2016	1120	2	<2	<2	<2	1.0	19.2	79.85	8.8	33.35	8.2	ns	ns
I39	24 Aug 2016	1120	12	<2	<2	<2	1.0	16.2	77.46	6.8	33.29	8.2	ns	ns
I39	24 Aug 2016	1120	18	<2	<2	<2	1.0	14.7	82.32	7.4	33.27	8.1	ns	ns
I39	27 Aug 2016	1024	2	<2	<2	<2	1.0	19.4	81.94	8.3	33.43	8.2	ns	ns
I39	27 Aug 2016	1024	12	<2	<2	<2	1.0	15.1	79.85	6.7	33.24	8.2	ns	ns
I39	27 Aug 2016	1024	18	2e	<2	<2	1.0	14.6	81.46	7.1	33.24	8.1	ns	ns
I39	30 Aug 2016	1052	2	<2	<2	<2	1.0	18.7	80.13	7.8	33.42	8.2	ns	ns
I39	30 Aug 2016	1052	12	<2	<2	<2	1.0	15.2	79.46	5.3	33.29	8.1	ns	ns
I39	30 Aug 2016	1052	18	<2	<2	<2	1.0	13.9	81.42	5.9	33.29	8.0	ns	ns
I40	04 Aug 2016	908	2	4e	<2	<2	0.5	22.1	75.00	6.7	33.50	8.2	<5.1	<0.2
I40	04 Aug 2016	908	6	<2	<2	<2	1.0	18.1	74.84	6.5	33.40	8.1	ns	2.6
I40	04 Aug 2016	908	9	<2	<2	<2	1.0	17.7	72.60	6.3	33.38	8.1	ns	4.3
I40	11 Aug 2016	1034	2	<2	<2	<2	1.0	22.9	75.60	7.7	33.63	8.3	ns	ns
I40	11 Aug 2016	1034	6	<2	<2	<2	1.0	20.3	76.52	6.7	33.47	8.2	ns	ns
I40	11 Aug 2016	1034	9	<2	<2	<2	1.0	18.8	70.93	5.2	33.42	8.1	ns	ns
I40	24 Aug 2016	1206	2	<2	<2	<2	1.0	16.4	76.21	8.0	33.30	8.2	ns	ns
I40	24 Aug 2016	1206	6	<2	<2	<2	1.0	15.4	78.97	7.4	33.28	8.2	ns	ns
I40	24 Aug 2016	1206	9	<2	<2	<2	1.0	15.1	70.43	7.7	33.29	8.1	ns	ns
I40	27 Aug 2016	1057	2	<2	<2	<2	1.0	19.7	76.95	7.4	33.39	8.2	ns	ns
I40	27 Aug 2016	1057	6	<2	<2	<2	1.0	15.7	72.77	6.7	33.23	8.2	ns	ns
I40	27 Aug 2016	1057	9	<2	<2	<2	1.0	15.2	70.53	7.3	33.24	8.1	ns	ns
I40	30 Aug 2016	1128	2	<2	<2	<2	1.0	19.4	77.64	7.2	33.36	8.2	ns	ns
I40	30 Aug 2016	1128	6	<2	<2	<2	1.0	17.0	64.94	5.4	33.42	8.1	ns	ns
I40	30 Aug 2016	1128	9	20e	<2	<2	0.1	14.9	57.80	5.4	33.55	8.1	ns	ns

ns = not sampled

ND = no data

Table 3.9

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

Station	Date	Parameter	Value
I19	04 Aug 2016	Depth (m)	12
I19	04 Aug 2016	Arrive Time	931
I19	04 Aug 2016	Depart Time	937
I19	04 Aug 2016	Air Temp (C)	21
I19	04 Aug 2016	Weather	Partly Cloudy
I19	04 Aug 2016	Visibility (mi)	11
I19	04 Aug 2016	Wind Speed (kts)	8
I19	04 Aug 2016	Wind Dir	E
I19	04 Aug 2016	Water Color	Bluish-Green
I19	04 Aug 2016	Wave Ht Low (ft)	4
I19	04 Aug 2016	Wave Period (sec)	16
I19	04 Aug 2016	Sea State	Wind ripples
I19	04 Aug 2016	High Tide (ft)	4.59
I19	04 Aug 2016	High Tide Time	1113
I19	04 Aug 2016	Low Tide (ft)	-0.5
I19	04 Aug 2016	Low Tide Time	500
I19	04 Aug 2016	Comments	Boats
I19	11 Aug 2016	Depth (m)	11
I19	11 Aug 2016	Arrive Time	1024
I19	11 Aug 2016	Depart Time	1028
I19	11 Aug 2016	Air Temp (C)	22
I19	11 Aug 2016	Weather	Overcast
I19	11 Aug 2016	Visibility (mi)	5
I19	11 Aug 2016	Wind Speed (kts)	3
I19	11 Aug 2016	Wind Dir	N
I19	11 Aug 2016	Water Color	Green
I19	11 Aug 2016	Wave Ht Low (ft)	3
I19	11 Aug 2016	Wave Period (sec)	9
I19	11 Aug 2016	Sea State	Calm
I19	11 Aug 2016	High Tide (ft)	2.93
I19	11 Aug 2016	High Tide Time	502
I19	11 Aug 2016	Low Tide (ft)	2.42
I19	11 Aug 2016	Low Tide Time	952
I19	11 Aug 2016	Comments	
I19	24 Aug 2016	Depth (m)	10
I19	24 Aug 2016	Arrive Time	1148
I19	24 Aug 2016	Depart Time	1156
I19	24 Aug 2016	Air Temp (C)	20
I19	24 Aug 2016	Weather	Haze
I19	24 Aug 2016	Visibility (mi)	4
I19	24 Aug 2016	Wind Speed (kts)	6
I19	24 Aug 2016	Wind Dir	W
I19	24 Aug 2016	Water Color	Green
I19	24 Aug 2016	Wave Ht Low (ft)	4
I19	24 Aug 2016	Wave Period (sec)	13
I19	24 Aug 2016	Sea State	Calm
I19	24 Aug 2016	High Tide (ft)	5.16
I19	24 Aug 2016	High Tide Time	1441
I19	24 Aug 2016	Low Tide (ft)	1.73

Station	Date	Parameter	Value
I19	24 Aug 2016	Low Tide Time	806
I19	24 Aug 2016	Comments	
I19	27 Aug 2016	Depth (m)	11
I19	27 Aug 2016	Arrive Time	1046
I19	27 Aug 2016	Depart Time	1050
I19	27 Aug 2016	Air Temp (C)	20
I19	27 Aug 2016	Weather	Cloudy
I19	27 Aug 2016	Visibility (mi)	6
I19	27 Aug 2016	Wind Speed (kts)	4
I19	27 Aug 2016	Wind Dir	NE
I19	27 Aug 2016	Water Color	Green
I19	27 Aug 2016	Wave Ht Low (ft)	3
I19	27 Aug 2016	Wave Period (sec)	13
I19	27 Aug 2016	Sea State	Calm
I19	27 Aug 2016	High Tide (ft)	3.84
I19	27 Aug 2016	High Tide Time	706
I19	27 Aug 2016	Low Tide (ft)	2.16
I19	27 Aug 2016	Low Tide Time	1207
I19	27 Aug 2016	Comments	
I19	30 Aug 2016	Depth (m)	11
I19	30 Aug 2016	Arrive Time	1114
I19	30 Aug 2016	Depart Time	1119
I19	30 Aug 2016	Air Temp (C)	19
I19	30 Aug 2016	Weather	Fog
I19	30 Aug 2016	Visibility (mi)	3
I19	30 Aug 2016	Wind Speed (kts)	6
I19	30 Aug 2016	Wind Dir	SW
I19	30 Aug 2016	Water Color	Green
I19	30 Aug 2016	Wave Ht Low (ft)	3
I19	30 Aug 2016	Wave Period (sec)	9
I19	30 Aug 2016	Sea State	Calm
I19	30 Aug 2016	High Tide (ft)	4.7
I19	30 Aug 2016	High Tide Time	903
I19	30 Aug 2016	Low Tide (ft)	1.3
I19	30 Aug 2016	Low Tide Time	1438
I19	30 Aug 2016	Comments	Boats
I24	04 Aug 2016	Depth (m)	11
I24	04 Aug 2016	Arrive Time	850
I24	04 Aug 2016	Depart Time	900
I24	04 Aug 2016	Air Temp (C)	20
I24	04 Aug 2016	Weather	Overcast
I24	04 Aug 2016	Visibility (mi)	11
I24	04 Aug 2016	Wind Speed (kts)	2
I24	04 Aug 2016	Wind Dir	NE
I24	04 Aug 2016	Water Color	Bluish-Green
I24	04 Aug 2016	Wave Ht Low (ft)	4
I24	04 Aug 2016	Wave Period (sec)	16
I24	04 Aug 2016	Sea State	Wind ripples
I24	04 Aug 2016	High Tide (ft)	4.59
I24	04 Aug 2016	High Tide Time	1113
I24	04 Aug 2016	Low Tide (ft)	-0.5
I24	04 Aug 2016	Low Tide Time	500

Station	Date	Parameter	Value
I24	04 Aug 2016	Comments	
I24	11 Aug 2016	Depth (m)	11
I24	11 Aug 2016	Arrive Time	1042
I24	11 Aug 2016	Depart Time	1046
I24	11 Aug 2016	Air Temp (C)	21
I24	11 Aug 2016	Weather	Overcast
I24	11 Aug 2016	Visibility (mi)	5
I24	11 Aug 2016	Wind Speed (kts)	8
I24	11 Aug 2016	Wind Dir	SW
I24	11 Aug 2016	Water Color	Green
I24	11 Aug 2016	Wave Ht Low (ft)	3
I24	11 Aug 2016	Wave Period (sec)	9
I24	11 Aug 2016	Sea State	Calm
I24	11 Aug 2016	High Tide (ft)	2.93
I24	11 Aug 2016	High Tide Time	502
I24	11 Aug 2016	Low Tide (ft)	2.42
I24	11 Aug 2016	Low Tide Time	952
I24	11 Aug 2016	Comments	
I24	24 Aug 2016	Depth (m)	10
I24	24 Aug 2016	Arrive Time	1215
I24	24 Aug 2016	Depart Time	1218
I24	24 Aug 2016	Air Temp (C)	20
I24	24 Aug 2016	Weather	Clear
I24	24 Aug 2016	Visibility (mi)	6
I24	24 Aug 2016	Wind Speed (kts)	8
I24	24 Aug 2016	Wind Dir	N
I24	24 Aug 2016	Water Color	Green
I24	24 Aug 2016	Wave Ht Low (ft)	4
I24	24 Aug 2016	Wave Period (sec)	13
I24	24 Aug 2016	Sea State	Calm
I24	24 Aug 2016	High Tide (ft)	5.16
I24	24 Aug 2016	High Tide Time	1441
I24	24 Aug 2016	Low Tide (ft)	1.73
I24	24 Aug 2016	Low Tide Time	806
I24	24 Aug 2016	Comments	
I24	27 Aug 2016	Depth (m)	11
I24	27 Aug 2016	Arrive Time	1106
I24	27 Aug 2016	Depart Time	1110
I24	27 Aug 2016	Air Temp (C)	20
I24	27 Aug 2016	Weather	Cloudy
I24	27 Aug 2016	Visibility (mi)	6
I24	27 Aug 2016	Wind Speed (kts)	4
I24	27 Aug 2016	Wind Dir	E
I24	27 Aug 2016	Water Color	Greenish-Brown
I24	27 Aug 2016	Wave Ht Low (ft)	3
I24	27 Aug 2016	Wave Period (sec)	13
I24	27 Aug 2016	Sea State	Calm
I24	27 Aug 2016	High Tide (ft)	3.84
I24	27 Aug 2016	High Tide Time	706
I24	27 Aug 2016	Low Tide (ft)	2.16
I24	27 Aug 2016	Low Tide Time	1207
I24	27 Aug 2016	Comments	

Station	Date	Parameter	Value
I24	30 Aug 2016	Depth (m)	11
I24	30 Aug 2016	Arrive Time	1138
I24	30 Aug 2016	Depart Time	1143
I24	30 Aug 2016	Air Temp (C)	19
I24	30 Aug 2016	Weather	Fog
I24	30 Aug 2016	Visibility (mi)	6
I24	30 Aug 2016	Wind Speed (kts)	6
I24	30 Aug 2016	Wind Dir	W
I24	30 Aug 2016	Water Color	Green
I24	30 Aug 2016	Wave Ht Low (ft)	3
I24	30 Aug 2016	Wave Period (sec)	9
I24	30 Aug 2016	Sea State	Calm
I24	30 Aug 2016	High Tide (ft)	4.7
I24	30 Aug 2016	High Tide Time	903
I24	30 Aug 2016	Low Tide (ft)	1.3
I24	30 Aug 2016	Low Tide Time	1438
I24	30 Aug 2016	Comments	Boats
I25	04 Aug 2016	Depth (m)	10
I25	04 Aug 2016	Arrive Time	840
I25	04 Aug 2016	Depart Time	846
I25	04 Aug 2016	Air Temp (C)	20
I25	04 Aug 2016	Weather	Overcast
I25	04 Aug 2016	Visibility (mi)	11
I25	04 Aug 2016	Wind Speed (kts)	3
I25	04 Aug 2016	Wind Dir	SW
I25	04 Aug 2016	Water Color	Bluish-Green
I25	04 Aug 2016	Wave Ht Low (ft)	4
I25	04 Aug 2016	Wave Period (sec)	16
I25	04 Aug 2016	Sea State	Wind ripples
I25	04 Aug 2016	High Tide (ft)	4.59
I25	04 Aug 2016	High Tide Time	1113
I25	04 Aug 2016	Low Tide (ft)	-0.5
I25	04 Aug 2016	Low Tide Time	500
I25	04 Aug 2016	Comments	
I25	11 Aug 2016	Depth (m)	10
I25	11 Aug 2016	Arrive Time	1049
I25	11 Aug 2016	Depart Time	1053
I25	11 Aug 2016	Air Temp (C)	21
I25	11 Aug 2016	Weather	Overcast
I25	11 Aug 2016	Visibility (mi)	5
I25	11 Aug 2016	Wind Speed (kts)	7
I25	11 Aug 2016	Wind Dir	E
I25	11 Aug 2016	Water Color	Green
I25	11 Aug 2016	Wave Ht Low (ft)	3
I25	11 Aug 2016	Wave Period (sec)	9
I25	11 Aug 2016	Sea State	Calm
I25	11 Aug 2016	High Tide (ft)	2.93
I25	11 Aug 2016	High Tide Time	502
I25	11 Aug 2016	Low Tide (ft)	2.42
I25	11 Aug 2016	Low Tide Time	952
I25	11 Aug 2016	Comments	

Station	Date	Parameter	Value
I25	24 Aug 2016	Depth (m)	9
I25	24 Aug 2016	Arrive Time	1226
I25	24 Aug 2016	Depart Time	1228
I25	24 Aug 2016	Air Temp (C)	20
I25	24 Aug 2016	Weather	Clear
I25	24 Aug 2016	Visibility (mi)	6
I25	24 Aug 2016	Wind Speed (kts)	6
I25	24 Aug 2016	Wind Dir	S
I25	24 Aug 2016	Water Color	Green
I25	24 Aug 2016	Wave Ht Low (ft)	4
I25	24 Aug 2016	Wave Period (sec)	13
I25	24 Aug 2016	Sea State	Calm
I25	24 Aug 2016	High Tide (ft)	5.16
I25	24 Aug 2016	High Tide Time	1441
I25	24 Aug 2016	Low Tide (ft)	1.73
I25	24 Aug 2016	Low Tide Time	806
I25	24 Aug 2016	Comments	
I25	27 Aug 2016	Depth (m)	9
I25	27 Aug 2016	Arrive Time	1114
I25	27 Aug 2016	Depart Time	1119
I25	27 Aug 2016	Air Temp (C)	20
I25	27 Aug 2016	Weather	Cloudy
I25	27 Aug 2016	Visibility (mi)	6
I25	27 Aug 2016	Wind Speed (kts)	4
I25	27 Aug 2016	Wind Dir	SW
I25	27 Aug 2016	Water Color	Green
I25	27 Aug 2016	Wave Ht Low (ft)	3
I25	27 Aug 2016	Wave Period (sec)	13
I25	27 Aug 2016	Sea State	Calm
I25	27 Aug 2016	High Tide (ft)	3.84
I25	27 Aug 2016	High Tide Time	706
I25	27 Aug 2016	Low Tide (ft)	2.16
I25	27 Aug 2016	Low Tide Time	1207
I25	27 Aug 2016	Comments	
I25	30 Aug 2016	Depth (m)	10
I25	30 Aug 2016	Arrive Time	1148
I25	30 Aug 2016	Depart Time	1154
I25	30 Aug 2016	Air Temp (C)	19
I25	30 Aug 2016	Weather	Fog
I25	30 Aug 2016	Visibility (mi)	5
I25	30 Aug 2016	Wind Speed (kts)	6
I25	30 Aug 2016	Wind Dir	SE
I25	30 Aug 2016	Water Color	Green
I25	30 Aug 2016	Wave Ht Low (ft)	3
I25	30 Aug 2016	Wave Period (sec)	9
I25	30 Aug 2016	Sea State	Calm
I25	30 Aug 2016	High Tide (ft)	4.7
I25	30 Aug 2016	High Tide Time	903
I25	30 Aug 2016	Low Tide (ft)	1.3
I25	30 Aug 2016	Low Tide Time	1438
I25	30 Aug 2016	Comments	could not obtain depth within 0.05 nm
I26	04 Aug 2016	Depth (m)	10

Station	Date	Parameter	Value
I26	04 Aug 2016	Arrive Time	828
I26	04 Aug 2016	Depart Time	834
I26	04 Aug 2016	Air Temp (C)	21
I26	04 Aug 2016	Weather	Overcast
I26	04 Aug 2016	Visibility (mi)	11
I26	04 Aug 2016	Wind Speed (kts)	3
I26	04 Aug 2016	Wind Dir	N
I26	04 Aug 2016	Water Color	Bluish-Green
I26	04 Aug 2016	Wave Ht Low (ft)	4
I26	04 Aug 2016	Wave Period (sec)	16
I26	04 Aug 2016	Sea State	Wind ripples
I26	04 Aug 2016	High Tide (ft)	4.59
I26	04 Aug 2016	High Tide Time	1113
I26	04 Aug 2016	Low Tide (ft)	-0.5
I26	04 Aug 2016	Low Tide Time	500
I26	04 Aug 2016	Comments	
I26	11 Aug 2016	Depth (m)	10
I26	11 Aug 2016	Arrive Time	1100
I26	11 Aug 2016	Depart Time	1103
I26	11 Aug 2016	Air Temp (C)	21
I26	11 Aug 2016	Weather	Overcast
I26	11 Aug 2016	Visibility (mi)	5
I26	11 Aug 2016	Wind Speed (kts)	7
I26	11 Aug 2016	Wind Dir	NW
I26	11 Aug 2016	Water Color	Green
I26	11 Aug 2016	Wave Ht Low (ft)	3
I26	11 Aug 2016	Wave Period (sec)	9
I26	11 Aug 2016	Sea State	Calm
I26	11 Aug 2016	High Tide (ft)	2.93
I26	11 Aug 2016	High Tide Time	502
I26	11 Aug 2016	Low Tide (ft)	2.42
I26	11 Aug 2016	Low Tide Time	952
I26	11 Aug 2016	Comments	
I26	24 Aug 2016	Depth (m)	9
I26	24 Aug 2016	Arrive Time	1236
I26	24 Aug 2016	Depart Time	1241
I26	24 Aug 2016	Air Temp (C)	20
I26	24 Aug 2016	Weather	Clear
I26	24 Aug 2016	Visibility (mi)	6
I26	24 Aug 2016	Wind Speed (kts)	8
I26	24 Aug 2016	Wind Dir	N
I26	24 Aug 2016	Water Color	Green
I26	24 Aug 2016	Wave Ht Low (ft)	4
I26	24 Aug 2016	Wave Period (sec)	13
I26	24 Aug 2016	Sea State	Light chop
I26	24 Aug 2016	High Tide (ft)	5.16
I26	24 Aug 2016	High Tide Time	1441
I26	24 Aug 2016	Low Tide (ft)	1.73
I26	24 Aug 2016	Low Tide Time	806
I26	24 Aug 2016	Comments	
I26	27 Aug 2016	Depth (m)	10
I26	27 Aug 2016	Arrive Time	1124

Station	Date	Parameter	Value
I26	27 Aug 2016	Depart Time	1128
I26	27 Aug 2016	Air Temp (C)	20
I26	27 Aug 2016	Weather	Cloudy
I26	27 Aug 2016	Visibility (mi)	6
I26	27 Aug 2016	Wind Speed (kts)	6
I26	27 Aug 2016	Wind Dir	S
I26	27 Aug 2016	Water Color	Green
I26	27 Aug 2016	Wave Ht Low (ft)	3
I26	27 Aug 2016	Wave Period (sec)	13
I26	27 Aug 2016	Sea State	Calm
I26	27 Aug 2016	High Tide (ft)	3.84
I26	27 Aug 2016	High Tide Time	706
I26	27 Aug 2016	Low Tide (ft)	2.16
I26	27 Aug 2016	Low Tide Time	1207
I26	27 Aug 2016	Comments	
I26	30 Aug 2016	Depth (m)	10
I26	30 Aug 2016	Arrive Time	1208
I26	30 Aug 2016	Depart Time	1213
I26	30 Aug 2016	Air Temp (C)	19
I26	30 Aug 2016	Weather	Overcast
I26	30 Aug 2016	Visibility (mi)	6
I26	30 Aug 2016	Wind Speed (kts)	6
I26	30 Aug 2016	Wind Dir	SE
I26	30 Aug 2016	Water Color	Green
I26	30 Aug 2016	Wave Ht Low (ft)	3
I26	30 Aug 2016	Wave Period (sec)	9
I26	30 Aug 2016	Sea State	Calm
I26	30 Aug 2016	High Tide (ft)	4.7
I26	30 Aug 2016	High Tide Time	903
I26	30 Aug 2016	Low Tide (ft)	1.3
I26	30 Aug 2016	Low Tide Time	1438
I26	30 Aug 2016	Comments	
I32	03 Aug 2016	Depth (m)	11
I32	03 Aug 2016	Arrive Time	951
I32	03 Aug 2016	Depart Time	955
I32	03 Aug 2016	Air Temp (C)	21
I32	03 Aug 2016	Weather	Overcast
I32	03 Aug 2016	Visibility (mi)	5
I32	03 Aug 2016	Wind Speed (kts)	4
I32	03 Aug 2016	Wind Dir	NE
I32	03 Aug 2016	Water Color	Green
I32	03 Aug 2016	Wave Ht Low (ft)	3
I32	03 Aug 2016	Wave Period (sec)	9
I32	03 Aug 2016	Sea State	Calm
I32	03 Aug 2016	High Tide (ft)	4.56
I32	03 Aug 2016	High Tide Time	1038
I32	03 Aug 2016	Low Tide (ft)	-0.77
I32	03 Aug 2016	Low Tide Time	425
I32	03 Aug 2016	Comments	
I32	11 Aug 2016	Depth (m)	9
I32	11 Aug 2016	Arrive Time	1111
I32	11 Aug 2016	Depart Time	1116

Station	Date	Parameter	Value
I32	11 Aug 2016	Air Temp (C)	21
I32	11 Aug 2016	Weather	Overcast
I32	11 Aug 2016	Visibility (mi)	5
I32	11 Aug 2016	Wind Speed (kts)	8
I32	11 Aug 2016	Wind Dir	SE
I32	11 Aug 2016	Water Color	Green
I32	11 Aug 2016	Wave Ht Low (ft)	3
I32	11 Aug 2016	Wave Period (sec)	9
I32	11 Aug 2016	Sea State	Calm
I32	11 Aug 2016	High Tide (ft)	2.93
I32	11 Aug 2016	High Tide Time	502
I32	11 Aug 2016	Low Tide (ft)	2.42
I32	11 Aug 2016	Low Tide Time	952
I32	11 Aug 2016	Comments	none
I32	24 Aug 2016	Depth (m)	10
I32	24 Aug 2016	Arrive Time	1252
I32	24 Aug 2016	Depart Time	1255
I32	24 Aug 2016	Air Temp (C)	20
I32	24 Aug 2016	Weather	Clear
I32	24 Aug 2016	Visibility (mi)	6
I32	24 Aug 2016	Wind Speed (kts)	9
I32	24 Aug 2016	Wind Dir	S
I32	24 Aug 2016	Water Color	Green
I32	24 Aug 2016	Wave Ht Low (ft)	4
I32	24 Aug 2016	Wave Period (sec)	13
I32	24 Aug 2016	Sea State	Light chop
I32	24 Aug 2016	High Tide (ft)	5.16
I32	24 Aug 2016	High Tide Time	1441
I32	24 Aug 2016	Low Tide (ft)	1.73
I32	24 Aug 2016	Low Tide Time	806
I32	24 Aug 2016	Comments	
I32	27 Aug 2016	Depth (m)	11
I32	27 Aug 2016	Arrive Time	1136
I32	27 Aug 2016	Depart Time	1140
I32	27 Aug 2016	Air Temp (C)	19
I32	27 Aug 2016	Weather	Cloudy
I32	27 Aug 2016	Visibility (mi)	6
I32	27 Aug 2016	Wind Speed (kts)	8
I32	27 Aug 2016	Wind Dir	E
I32	27 Aug 2016	Water Color	Green
I32	27 Aug 2016	Wave Ht Low (ft)	3
I32	27 Aug 2016	Wave Period (sec)	13
I32	27 Aug 2016	Sea State	Calm
I32	27 Aug 2016	High Tide (ft)	3.84
I32	27 Aug 2016	High Tide Time	706
I32	27 Aug 2016	Low Tide (ft)	2.16
I32	27 Aug 2016	Low Tide Time	1207
I32	27 Aug 2016	Comments	none
I32	30 Aug 2016	Depth (m)	10
I32	30 Aug 2016	Arrive Time	1221
I32	30 Aug 2016	Depart Time	1224
I32	30 Aug 2016	Air Temp (C)	20

Station	Date	Parameter	Value
I32	30 Aug 2016	Weather	Overcast
I32	30 Aug 2016	Visibility (mi)	6
I32	30 Aug 2016	Wind Speed (kts)	6
I32	30 Aug 2016	Wind Dir	NE
I32	30 Aug 2016	Water Color	Green
I32	30 Aug 2016	Wave Ht Low (ft)	3
I32	30 Aug 2016	Wave Period (sec)	9
I32	30 Aug 2016	Sea State	Calm
I32	30 Aug 2016	High Tide (ft)	4.7
I32	30 Aug 2016	High Tide Time	903
I32	30 Aug 2016	Low Tide (ft)	1.3
I32	30 Aug 2016	Low Tide Time	1438
I32	30 Aug 2016	Comments	
I39	04 Aug 2016	Depth (m)	15
I39	04 Aug 2016	Arrive Time	813
I39	04 Aug 2016	Depart Time	822
I39	04 Aug 2016	Air Temp (C)	21
I39	04 Aug 2016	Weather	Overcast
I39	04 Aug 2016	Visibility (mi)	11
I39	04 Aug 2016	Wind Speed (kts)	3
I39	04 Aug 2016	Wind Dir	E
I39	04 Aug 2016	Water Color	Bluish-Green
I39	04 Aug 2016	Wave Ht Low (ft)	4
I39	04 Aug 2016	Wave Period (sec)	16
I39	04 Aug 2016	Sea State	Wind ripples
I39	04 Aug 2016	High Tide (ft)	4.59
I39	04 Aug 2016	High Tide Time	1113
I39	04 Aug 2016	Low Tide (ft)	-0.5
I39	04 Aug 2016	Low Tide Time	500
I39	04 Aug 2016	Comments	
I39	11 Aug 2016	Depth (m)	19
I39	11 Aug 2016	Arrive Time	1005
I39	11 Aug 2016	Depart Time	1009
I39	11 Aug 2016	Air Temp (C)	22
I39	11 Aug 2016	Weather	Overcast
I39	11 Aug 2016	Visibility (mi)	5
I39	11 Aug 2016	Wind Speed (kts)	2
I39	11 Aug 2016	Wind Dir	S
I39	11 Aug 2016	Water Color	Green
I39	11 Aug 2016	Wave Ht Low (ft)	3
I39	11 Aug 2016	Wave Period (sec)	9
I39	11 Aug 2016	Sea State	Calm
I39	11 Aug 2016	High Tide (ft)	2.93
I39	11 Aug 2016	High Tide Time	502
I39	11 Aug 2016	Low Tide (ft)	2.42
I39	11 Aug 2016	Low Tide Time	952
I39	11 Aug 2016	Comments	
I39	24 Aug 2016	Depth (m)	18
I39	24 Aug 2016	Arrive Time	1120
I39	24 Aug 2016	Depart Time	1129
I39	24 Aug 2016	Air Temp (C)	20
I39	24 Aug 2016	Weather	Haze

Station	Date	Parameter	Value
I39	24 Aug 2016	Visibility (mi)	4
I39	24 Aug 2016	Wind Speed (kts)	7
I39	24 Aug 2016	Wind Dir	N
I39	24 Aug 2016	Water Color	Brownish-Green
I39	24 Aug 2016	Wave Ht Low (ft)	4
I39	24 Aug 2016	Wave Period (sec)	13
I39	24 Aug 2016	Sea State	Calm
I39	24 Aug 2016	High Tide (ft)	5.16
I39	24 Aug 2016	High Tide Time	1441
I39	24 Aug 2016	Low Tide (ft)	1.73
I39	24 Aug 2016	Low Tide Time	806
I39	24 Aug 2016	Comments	
I39	27 Aug 2016	Depth (m)	19
I39	27 Aug 2016	Arrive Time	1024
I39	27 Aug 2016	Depart Time	1029
I39	27 Aug 2016	Air Temp (C)	19
I39	27 Aug 2016	Weather	Cloudy
I39	27 Aug 2016	Visibility (mi)	6
I39	27 Aug 2016	Wind Speed (kts)	3
I39	27 Aug 2016	Wind Dir	E
I39	27 Aug 2016	Water Color	Green
I39	27 Aug 2016	Wave Ht Low (ft)	3
I39	27 Aug 2016	Wave Period (sec)	13
I39	27 Aug 2016	Sea State	Calm
I39	27 Aug 2016	High Tide (ft)	3.84
I39	27 Aug 2016	High Tide Time	706
I39	27 Aug 2016	Low Tide (ft)	2.16
I39	27 Aug 2016	Low Tide Time	1207
I39	27 Aug 2016	Comments	
I39	30 Aug 2016	Depth (m)	19
I39	30 Aug 2016	Arrive Time	1052
I39	30 Aug 2016	Depart Time	1059
I39	30 Aug 2016	Air Temp (C)	19
I39	30 Aug 2016	Weather	Overcast
I39	30 Aug 2016	Visibility (mi)	5
I39	30 Aug 2016	Wind Speed (kts)	4
I39	30 Aug 2016	Wind Dir	NE
I39	30 Aug 2016	Water Color	Green
I39	30 Aug 2016	Wave Ht Low (ft)	3
I39	30 Aug 2016	Wave Period (sec)	9
I39	30 Aug 2016	Sea State	Calm
I39	30 Aug 2016	High Tide (ft)	4.7
I39	30 Aug 2016	High Tide Time	903
I39	30 Aug 2016	Low Tide (ft)	1.3
I39	30 Aug 2016	Low Tide Time	1438
I39	30 Aug 2016	Comments	Kelp debris
I40	04 Aug 2016	Depth (m)	11
I40	04 Aug 2016	Arrive Time	908
I40	04 Aug 2016	Depart Time	918
I40	04 Aug 2016	Air Temp (C)	21
I40	04 Aug 2016	Weather	Overcast
I40	04 Aug 2016	Visibility (mi)	11

Station	Date	Parameter	Value
I40	04 Aug 2016	Wind Speed (kts)	4
I40	04 Aug 2016	Wind Dir	S
I40	04 Aug 2016	Water Color	Bluish-Green
I40	04 Aug 2016	Wave Ht Low (ft)	4
I40	04 Aug 2016	Wave Period (sec)	16
I40	04 Aug 2016	Sea State	Wind ripples
I40	04 Aug 2016	High Tide (ft)	4.59
I40	04 Aug 2016	High Tide Time	1113
I40	04 Aug 2016	Low Tide (ft)	-0.5
I40	04 Aug 2016	Low Tide Time	500
I40	04 Aug 2016	Comments	
I40	11 Aug 2016	Depth (m)	11
I40	11 Aug 2016	Arrive Time	1034
I40	11 Aug 2016	Depart Time	1038
I40	11 Aug 2016	Air Temp (C)	22
I40	11 Aug 2016	Weather	Overcast
I40	11 Aug 2016	Visibility (mi)	5
I40	11 Aug 2016	Wind Speed (kts)	4
I40	11 Aug 2016	Wind Dir	E
I40	11 Aug 2016	Water Color	Green
I40	11 Aug 2016	Wave Ht Low (ft)	3
I40	11 Aug 2016	Wave Period (sec)	9
I40	11 Aug 2016	Sea State	Calm
I40	11 Aug 2016	High Tide (ft)	2.93
I40	11 Aug 2016	High Tide Time	502
I40	11 Aug 2016	Low Tide (ft)	2.42
I40	11 Aug 2016	Low Tide Time	952
I40	11 Aug 2016	Comments	
I40	24 Aug 2016	Depth (m)	10
I40	24 Aug 2016	Arrive Time	1206
I40	24 Aug 2016	Depart Time	1209
I40	24 Aug 2016	Air Temp (C)	20
I40	24 Aug 2016	Weather	Haze
I40	24 Aug 2016	Visibility (mi)	4
I40	24 Aug 2016	Wind Speed (kts)	8
I40	24 Aug 2016	Wind Dir	E
I40	24 Aug 2016	Water Color	Green
I40	24 Aug 2016	Wave Ht Low (ft)	4
I40	24 Aug 2016	Wave Period (sec)	13
I40	24 Aug 2016	Sea State	Calm
I40	24 Aug 2016	High Tide (ft)	5.16
I40	24 Aug 2016	High Tide Time	1441
I40	24 Aug 2016	Low Tide (ft)	1.73
I40	24 Aug 2016	Low Tide Time	806
I40	24 Aug 2016	Comments	
I40	27 Aug 2016	Depth (m)	10
I40	27 Aug 2016	Arrive Time	1057
I40	27 Aug 2016	Depart Time	1102
I40	27 Aug 2016	Air Temp (C)	19
I40	27 Aug 2016	Weather	Cloudy
I40	27 Aug 2016	Visibility (mi)	6
I40	27 Aug 2016	Wind Speed (kts)	5

Station	Date	Parameter	Value
I40	27 Aug 2016	Wind Dir	NW
I40	27 Aug 2016	Water Color	Greenish-Brown
I40	27 Aug 2016	Wave Ht Low (ft)	3
I40	27 Aug 2016	Wave Period (sec)	13
I40	27 Aug 2016	Sea State	Calm
I40	27 Aug 2016	High Tide (ft)	3.84
I40	27 Aug 2016	High Tide Time	706
I40	27 Aug 2016	Low Tide (ft)	2.16
I40	27 Aug 2016	Low Tide Time	1207
I40	27 Aug 2016	Comments	
I40	30 Aug 2016	Depth (m)	10
I40	30 Aug 2016	Arrive Time	1128
I40	30 Aug 2016	Depart Time	1131
I40	30 Aug 2016	Air Temp (C)	19
I40	30 Aug 2016	Weather	Fog
I40	30 Aug 2016	Visibility (mi)	3
I40	30 Aug 2016	Wind Speed (kts)	6
I40	30 Aug 2016	Wind Dir	SW
I40	30 Aug 2016	Water Color	Green
I40	30 Aug 2016	Wave Ht Low (ft)	3
I40	30 Aug 2016	Wave Period (sec)	9
I40	30 Aug 2016	Sea State	Calm
I40	30 Aug 2016	High Tide (ft)	4.7
I40	30 Aug 2016	High Tide Time	903
I40	30 Aug 2016	Low Tide (ft)	1.3
I40	30 Aug 2016	Low Tide Time	1438
I40	30 Aug 2016	Comments	Boats

Table 3.10

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I19	04 Aug 2016	1	21.57	70.61	6.5	33.51	8.2	23.2	3.23
I19	04 Aug 2016	2	21.20	70.08	6.5	33.48	8.2	23.3	3.77
I19	04 Aug 2016	3	19.08	68.97	6.8	33.41	8.2	23.8	3.81
I19	04 Aug 2016	4	18.36	69.89	6.9	33.41	8.2	24.0	3.67
I19	04 Aug 2016	5	18.08	70.89	7.0	33.40	8.1	24.0	3.61
I19	04 Aug 2016	6	17.96	73.32	6.8	33.39	8.1	24.0	3.57
I19	04 Aug 2016	7	17.88	74.64	6.6	33.39	8.1	24.1	3.55
I19	04 Aug 2016	8	17.81	75.23	6.3	33.39	8.1	24.1	3.68
I19	04 Aug 2016	9	17.78	73.95	6.2	33.39	8.1	24.1	3.68
I19	04 Aug 2016	10	17.78	65.91	6.2	33.40	8.1	24.1	3.82
I19	11 Aug 2016	1	22.88	76.16	7.5	33.64	8.3	22.9	1.71
I19	11 Aug 2016	2	22.74	76.01	7.6	33.62	8.3	23.0	1.94
I19	11 Aug 2016	3	22.34	75.45	7.8	33.60	8.3	23.1	2.11
I19	11 Aug 2016	4	21.82	75.23	7.6	33.53	8.3	23.2	2.12
I19	11 Aug 2016	5	21.16	78.32	7.4	33.53	8.3	23.3	2.23
I19	11 Aug 2016	6	20.19	79.60	7.1	33.44	8.3	23.5	2.39
I19	11 Aug 2016	7	19.21	81.42	6.9	33.42	8.2	23.8	2.82
I19	11 Aug 2016	8	18.84	79.10	6.9	33.42	8.2	23.9	2.95
I19	11 Aug 2016	9	18.68	74.28	7.0	33.41	8.2	23.9	2.55
I19	11 Aug 2016	10	18.63	63.38	7.3	33.41	8.2	23.9	2.44
I19	24 Aug 2016	1	18.11	69.33	8.2	33.34	8.2	24.0	3.01
I19	24 Aug 2016	2	16.96	71.06	8.2	33.18	8.2	24.1	3.84
I19	24 Aug 2016	3	15.92	73.42	7.9	33.24	8.2	24.4	4.38
I19	24 Aug 2016	4	15.83	75.05	8.0	33.27	8.2	24.5	5.59
I19	24 Aug 2016	5	15.41	75.40	8.1	33.27	8.2	24.6	5.98
I19	24 Aug 2016	6	15.32	75.68	8.1	33.27	8.2	24.6	5.40
I19	24 Aug 2016	7	15.18	75.49	8.0	33.27	8.2	24.6	5.34
I19	24 Aug 2016	8	15.14	75.42	8.0	33.27	8.2	24.6	5.18
I19	24 Aug 2016	9	15.09	74.51	8.1	33.28	8.2	24.6	5.26
I19	24 Aug 2016	10	15.08	74.11	8.2	33.28	8.1	24.6	5.03
I19	27 Aug 2016	1	19.70	75.14	8.1	33.40	8.2	23.6	3.20
I19	27 Aug 2016	2	19.69	75.24	6.6	33.41	8.2	23.6	3.24
I19	27 Aug 2016	3	19.66	75.53	5.8	33.41	8.2	23.6	3.42
I19	27 Aug 2016	4	19.25	75.50	5.6	33.46	8.2	23.8	3.72
I19	27 Aug 2016	5	17.82	71.37	5.6	33.50	8.2	24.2	4.07
I19	27 Aug 2016	6	16.23	67.57	5.9	33.41	8.1	24.5	4.40
I19	27 Aug 2016	7	15.41	67.39	6.5	33.39	8.1	24.6	4.49
I19	27 Aug 2016	8	15.18	67.15	7.0	33.56	8.1	24.8	4.58
I19	27 Aug 2016	9	15.17	65.78	7.0	33.63	8.1	24.9	4.43
I19	27 Aug 2016	10	15.16	64.41	7.0	33.44	8.1	24.7	4.54
I19	30 Aug 2016	1	19.20	74.50	8.1	33.34	8.2	23.7	2.33
I19	30 Aug 2016	2	19.25	74.71	7.6	33.37	8.2	23.7	2.79
I19	30 Aug 2016	3	19.12	73.66	7.3	33.41	8.2	23.8	3.54
I19	30 Aug 2016	4	19.23	74.62	7.0	33.39	8.2	23.7	3.64
I19	30 Aug 2016	5	19.24	74.89	7.0	33.38	8.2	23.7	3.25
I19	30 Aug 2016	6	18.83	73.80	7.0	33.39	8.2	23.8	3.06
I19	30 Aug 2016	7	18.39	70.21	7.0	33.40	8.2	24.0	2.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I19	30 Aug 2016	8	18.31	68.21	7.5	33.37	8.1	23.9	3.16
I19	30 Aug 2016	9	18.17	66.39	7.9	33.31	8.1	23.9	3.38
I19	30 Aug 2016	10	17.23	61.33	8.0	33.24	8.1	24.1	3.51
I24	04 Aug 2016	1	21.80	75.29	6.5	33.51	8.2	23.1	2.33
I24	04 Aug 2016	2	20.48	75.19	7.0	33.44	8.2	23.4	2.75
I24	04 Aug 2016	3	18.60	74.84	7.8	33.41	8.2	23.9	3.16
I24	04 Aug 2016	4	18.18	76.87	7.5	33.40	8.2	24.0	3.44
I24	04 Aug 2016	5	18.02	77.96	7.2	33.38	8.2	24.0	3.16
I24	04 Aug 2016	6	17.58	78.10	6.9	33.39	8.1	24.1	2.86
I24	04 Aug 2016	7	17.57	78.02	6.7	33.37	8.1	24.1	2.64
I24	04 Aug 2016	8	17.33	78.07	6.7	33.39	8.1	24.2	2.59
I24	04 Aug 2016	9	17.33	77.86	6.7	33.39	8.1	24.2	2.39
I24	04 Aug 2016	10	17.31	77.80	6.8	33.40	8.1	24.2	2.47
I24	04 Aug 2016	11	17.32	77.70	6.8	33.40	8.1	24.2	2.47
I24	11 Aug 2016	1	23.13	78.81	8.1	33.66	8.3	22.9	1.24
I24	11 Aug 2016	2	23.14	78.68	8.1	33.66	8.3	22.9	1.57
I24	11 Aug 2016	3	22.94	78.03	8.0	33.65	8.3	22.9	2.02
I24	11 Aug 2016	4	22.88	77.83	7.8	33.64	8.3	22.9	2.21
I24	11 Aug 2016	5	22.59	77.53	7.6	33.60	8.3	23.0	2.41
I24	11 Aug 2016	6	21.75	78.04	7.2	33.55	8.3	23.2	2.72
I24	11 Aug 2016	7	20.63	79.12	6.5	33.48	8.3	23.4	2.50
I24	11 Aug 2016	8	19.40	79.38	6.0	33.41	8.2	23.7	2.34
I24	11 Aug 2016	9	18.26	78.10	6.3	33.37	8.2	24.0	2.41
I24	11 Aug 2016	10	17.94	76.06	6.8	33.40	8.1	24.1	2.27
I24	24 Aug 2016	1	18.74	75.40	7.7	33.31	8.2	23.8	2.32
I24	24 Aug 2016	2	17.21	75.19	7.7	33.18	8.2	24.1	2.74
I24	24 Aug 2016	3	16.55	78.15	7.5	33.29	8.2	24.3	2.85
I24	24 Aug 2016	4	16.00	79.37	7.0	33.26	8.2	24.4	2.20
I24	24 Aug 2016	5	15.84	79.49	6.9	33.30	8.2	24.5	1.90
I24	24 Aug 2016	6	15.59	79.83	7.1	33.21	8.2	24.5	1.79
I24	24 Aug 2016	7	15.12	78.72	7.3	33.26	8.1	24.6	1.81
I24	24 Aug 2016	8	15.01	78.64	7.4	33.26	8.1	24.6	1.75
I24	24 Aug 2016	9	14.96	79.34	7.4	33.26	8.1	24.6	1.77
I24	24 Aug 2016	10	14.97	79.84	7.4	33.27	8.1	24.6	1.78
I24	27 Aug 2016	1	19.81	81.06	7.9	33.41	8.2	23.6	3.55
I24	27 Aug 2016	2	19.80	80.91	7.6	33.41	8.2	23.6	4.78
I24	27 Aug 2016	3	19.77	80.62	7.2	33.41	8.2	23.6	5.28
I24	27 Aug 2016	4	19.56	79.50	7.0	33.36	8.2	23.6	3.85
I24	27 Aug 2016	5	17.81	75.91	6.7	33.24	8.2	24.0	3.22
I24	27 Aug 2016	6	15.96	76.13	6.7	33.27	8.2	24.4	3.03
I24	27 Aug 2016	7	15.25	76.00	6.7	33.28	8.2	24.6	3.10
I24	27 Aug 2016	8	15.07	75.21	6.9	33.27	8.1	24.6	3.08
I24	27 Aug 2016	9	15.00	74.06	7.1	33.26	8.1	24.6	3.09
I24	27 Aug 2016	10	14.98	75.51	7.2	33.25	8.1	24.6	3.17
I24	27 Aug 2016	11	15.01	68.99	7.2	33.26	8.1	24.6	3.17
I24	30 Aug 2016	1	19.14	80.26	8.3	33.07	8.2	23.5	0.76
I24	30 Aug 2016	2	19.13	80.52	7.5	33.29	8.2	23.7	0.90
I24	30 Aug 2016	3	18.91	79.68	6.8	33.45	8.2	23.9	0.33
I24	30 Aug 2016	4	18.44	77.65	6.3	33.47	8.2	24.0	1.47
I24	30 Aug 2016	5	17.66	75.93	5.8	33.53	8.2	24.2	1.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I24	30 Aug 2016	6	17.15	72.08	5.5	33.45	8.2	24.3	2.03
I24	30 Aug 2016	7	16.19	70.10	5.2	33.46	8.1	24.5	1.61
I24	30 Aug 2016	8	15.57	70.92	5.0	33.44	8.1	24.6	2.25
I24	30 Aug 2016	9	14.92	68.10	4.8	33.45	8.1	24.8	1.14
I24	30 Aug 2016	10	14.69	65.12	4.7	33.35	8.1	24.8	0.00
I25	04 Aug 2016	1	21.52	73.26	6.2	33.53	8.2	23.2	1.58
I25	04 Aug 2016	2	20.97	73.10	5.8	33.45	8.2	23.3	1.46
I25	04 Aug 2016	3	19.34	76.57	6.2	33.44	8.1	23.7	1.45
I25	04 Aug 2016	4	18.57	78.52	6.3	33.42	8.1	23.9	1.36
I25	04 Aug 2016	5	18.37	77.31	6.3	33.41	8.1	24.0	1.39
I25	04 Aug 2016	6	17.93	74.12	6.4	33.41	8.1	24.1	1.38
I25	04 Aug 2016	7	17.94	72.83	6.4	33.41	8.1	24.1	1.43
I25	04 Aug 2016	8	17.90	72.98	6.4	33.41	8.1	24.1	1.41
I25	04 Aug 2016	9	17.89	72.29	6.4	33.41	8.1	24.1	1.42
I25	11 Aug 2016	1	22.91	76.73	8.1	33.66	8.3	22.9	1.59
I25	11 Aug 2016	2	22.98	77.17	8.0	33.65	8.3	22.9	1.94
I25	11 Aug 2016	3	22.70	77.13	7.9	33.64	8.3	23.0	1.99
I25	11 Aug 2016	4	22.43	76.55	7.8	33.60	8.3	23.0	2.12
I25	11 Aug 2016	5	21.82	77.53	7.2	33.58	8.3	23.2	1.92
I25	11 Aug 2016	6	21.11	78.35	6.0	33.54	8.3	23.3	1.63
I25	11 Aug 2016	7	19.55	78.95	5.7	33.40	8.2	23.7	1.45
I25	11 Aug 2016	8	18.65	78.35	5.9	33.42	8.1	23.9	1.45
I25	11 Aug 2016	9	18.57	77.75	6.2	33.41	8.1	23.9	1.48
I25	24 Aug 2016	1	19.61	79.78	7.8	33.40	8.2	23.6	1.60
I25	24 Aug 2016	2	19.35	79.34	7.2	33.32	8.2	23.7	1.89
I25	24 Aug 2016	3	18.74	74.77	7.1	33.30	8.2	23.8	1.86
I25	24 Aug 2016	4	18.12	72.24	7.2	33.19	8.2	23.9	1.82
I25	24 Aug 2016	5	16.39	75.54	7.1	33.26	8.2	24.3	1.71
I25	24 Aug 2016	6	16.15	78.82	7.2	33.27	8.1	24.4	1.70
I25	24 Aug 2016	7	15.58	78.51	7.4	33.21	8.1	24.5	1.69
I25	24 Aug 2016	8	15.38	78.82	7.4	33.28	8.1	24.6	1.65
I25	24 Aug 2016	9	15.35	77.55	7.3	33.26	8.1	24.6	1.09
I25	27 Aug 2016	1	19.73	81.66	8.1	33.42	8.2	23.6	2.39
I25	27 Aug 2016	2	19.72	81.62	7.4	33.41	8.2	23.6	2.91
I25	27 Aug 2016	3	19.67	81.26	6.8	33.41	8.2	23.6	1.90
I25	27 Aug 2016	4	19.56	80.45	6.7	33.36	8.2	23.6	1.93
I25	27 Aug 2016	5	17.93	79.00	6.6	33.09	8.2	23.8	2.54
I25	27 Aug 2016	6	16.37	76.82	6.9	33.23	8.2	24.3	2.22
I25	27 Aug 2016	7	15.70	76.03	7.4	33.23	8.2	24.5	2.36
I25	27 Aug 2016	8	15.38	76.37	7.6	33.25	8.1	24.5	2.81
I25	27 Aug 2016	9	15.37	77.28	7.7	33.27	8.1	24.6	2.49
I25	30 Aug 2016	1	19.22	76.30	6.8	33.30	8.2	23.7	0.30
I25	30 Aug 2016	2	19.19	78.42	7.8	33.38	8.2	23.7	0.33
I25	30 Aug 2016	3	18.60	79.71	8.4	33.64	8.2	24.1	0.35
I25	30 Aug 2016	4	17.82	79.80	8.8	33.66	8.2	24.3	0.35
I25	30 Aug 2016	5	17.33	77.35	8.6	33.49	8.2	24.3	0.33
I25	30 Aug 2016	6	17.05	75.05	8.1	33.51	8.2	24.4	0.36
I25	30 Aug 2016	7	15.97	72.82	7.4	33.92	8.1	24.9	0.94
I25	30 Aug 2016	8	15.11	72.46	7.0	33.81	8.1	25.0	1.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I26	04 Aug 2016	1	22.60	77.62	7.4	33.54	8.3	22.9	1.70
I26	04 Aug 2016	2	22.44	77.39	7.5	33.52	8.3	23.0	2.03
I26	04 Aug 2016	3	21.57	76.87	7.7	33.47	8.2	23.2	2.59
I26	04 Aug 2016	4	19.93	79.25	7.3	33.45	8.2	23.6	2.76
I26	04 Aug 2016	5	19.05	77.98	7.1	33.43	8.2	23.8	2.03
I26	04 Aug 2016	6	18.29	77.41	6.9	33.38	8.2	24.0	1.84
I26	04 Aug 2016	7	17.56	78.26	7.0	33.39	8.2	24.1	1.83
I26	04 Aug 2016	8	17.55	78.02	7.0	33.38	8.1	24.1	1.78
I26	04 Aug 2016	9	17.54	78.11	7.1	33.39	8.1	24.1	1.88
I26	11 Aug 2016	1	23.02	76.03	7.6	33.64	8.3	22.9	1.45
I26	11 Aug 2016	2	22.92	76.13	6.9	33.62	8.3	22.9	2.07
I26	11 Aug 2016	3	22.42	76.62	6.3	33.59	8.3	23.0	2.69
I26	11 Aug 2016	4	21.53	76.19	6.3	33.50	8.3	23.2	2.91
I26	11 Aug 2016	5	20.06	76.51	6.6	33.44	8.2	23.6	2.79
I26	11 Aug 2016	6	19.15	76.72	6.6	33.41	8.2	23.8	2.39
I26	11 Aug 2016	7	18.85	76.88	6.2	33.42	8.2	23.9	2.27
I26	11 Aug 2016	8	18.59	76.90	6.0	33.38	8.1	23.9	2.25
I26	11 Aug 2016	9	18.29	76.95	6.2	33.40	8.1	24.0	2.28
I26	24 Aug 2016	1	19.55	78.26	7.9	33.39	8.2	23.6	2.06
I26	24 Aug 2016	2	19.09	77.30	7.7	33.35	8.2	23.7	2.68
I26	24 Aug 2016	3	18.13	75.16	7.6	33.27	8.2	23.9	2.74
I26	24 Aug 2016	4	16.99	73.03	7.7	33.32	8.2	24.2	2.14
I26	24 Aug 2016	5	16.23	74.93	7.8	33.30	8.2	24.4	2.10
I26	24 Aug 2016	6	15.79	76.17	7.6	33.29	8.2	24.5	2.05
I26	24 Aug 2016	7	15.54	76.83	7.6	33.28	8.2	24.5	2.07
I26	24 Aug 2016	8	15.46	79.16	7.8	33.28	8.1	24.5	2.03
I26	24 Aug 2016	9	15.40	78.57	7.8	33.28	8.1	24.6	2.06
I26	27 Aug 2016	1	19.51	80.77	8.4	33.42	8.2	23.7	1.96
I26	27 Aug 2016	2	19.51	80.87	8.3	33.42	8.2	23.7	2.20
I26	27 Aug 2016	3	19.43	79.80	7.8	33.42	8.2	23.7	3.20
I26	27 Aug 2016	4	19.47	79.94	7.3	33.42	8.2	23.7	3.35
I26	27 Aug 2016	5	19.43	80.01	7.4	33.40	8.2	23.7	2.99
I26	27 Aug 2016	6	17.80	78.41	7.7	33.32	8.2	24.0	2.92
I26	27 Aug 2016	7	16.52	76.42	7.7	33.23	8.2	24.3	2.93
I26	27 Aug 2016	8	15.47	77.43	8.0	33.29	8.2	24.6	2.94
I26	27 Aug 2016	9	15.38	79.16	8.0	33.28	8.2	24.6	2.92
I26	30 Aug 2016	1	19.34	79.93	8.3	33.41	8.2	23.7	0.58
I26	30 Aug 2016	2	19.28	79.45	8.2	33.42	8.2	23.7	0.58
I26	30 Aug 2016	3	18.84	80.30	8.2	33.45	8.2	23.9	0.58
I26	30 Aug 2016	4	17.94	79.44	8.3	33.43	8.2	24.1	0.60
I26	30 Aug 2016	5	17.57	77.22	8.3	33.36	8.2	24.1	0.63
I26	30 Aug 2016	6	17.42	75.33	8.2	33.35	8.2	24.1	0.71
I26	30 Aug 2016	7	17.12	73.84	7.9	33.38	8.2	24.2	1.01
I26	30 Aug 2016	8	15.46	71.80	7.3	33.37	8.1	24.6	1.55
I26	30 Aug 2016	9	15.09	72.27	6.6	33.25	8.1	24.6	1.97
I32	03 Aug 2016	1	22.56	72.59	7.4	33.52	8.2	22.9	1.87
I32	03 Aug 2016	2	22.49	71.87	7.1	33.52	8.2	23.0	2.20
I32	03 Aug 2016	3	22.11	72.02	6.7	33.49	8.2	23.0	2.83
I32	03 Aug 2016	4	20.56	73.75	7.1	33.44	8.2	23.4	3.41
I32	03 Aug 2016	5	19.65	75.81	7.3	33.42	8.2	23.6	3.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I32	03 Aug 2016	6	18.82	76.45	7.2	33.41	8.2	23.8	3.30
I32	03 Aug 2016	7	18.34	77.54	6.3	33.41	8.2	24.0	3.11
I32	03 Aug 2016	8	17.79	77.81	5.9	33.38	8.2	24.1	2.98
I32	03 Aug 2016	9	17.39	73.77	6.2	33.40	8.1	24.2	2.97
I32	03 Aug 2016	10	17.37	71.93	6.4	33.40	8.1	24.2	2.98
I32	11 Aug 2016	1	22.87	72.80	7.3	33.62	8.3	22.9	1.83
I32	11 Aug 2016	2	22.38	72.45	7.5	33.59	8.3	23.0	2.47
I32	11 Aug 2016	3	21.86	72.02	7.4	33.57	8.2	23.2	2.86
I32	11 Aug 2016	4	21.65	71.17	7.0	33.55	8.2	23.2	3.22
I32	11 Aug 2016	5	21.14	72.39	6.7	33.51	8.2	23.3	2.72
I32	11 Aug 2016	6	20.67	72.66	6.4	33.50	8.2	23.4	2.26
I32	11 Aug 2016	7	20.27	73.26	5.9	33.48	8.2	23.5	2.20
I32	11 Aug 2016	8	19.93	74.20	5.8	33.46	8.2	23.6	2.44
I32	11 Aug 2016	9	19.29	69.11	6.5	33.39	8.1	23.7	2.38
I32	11 Aug 2016	10	18.34	63.18	6.7	33.43	8.1	24.0	2.29
I32	24 Aug 2016	1	19.63	75.93	7.0	33.38	8.2	23.6	4.13
I32	24 Aug 2016	2	19.54	74.63	6.3	33.36	8.2	23.6	6.16
I32	24 Aug 2016	3	18.39	71.30	6.1	33.15	8.2	23.8	6.40
I32	24 Aug 2016	4	16.41	71.33	6.4	33.30	8.1	24.3	5.50
I32	24 Aug 2016	5	15.82	69.99	6.4	33.26	8.1	24.5	5.02
I32	24 Aug 2016	6	15.58	68.35	6.5	33.30	8.1	24.5	5.14
I32	24 Aug 2016	7	15.54	68.86	6.6	33.28	8.1	24.5	5.17
I32	24 Aug 2016	8	15.46	68.47	6.7	33.29	8.1	24.6	5.69
I32	24 Aug 2016	9	15.42	71.02	6.7	33.29	8.1	24.6	3.18
I32	24 Aug 2016	10	15.41	71.85	6.7	33.30	8.1	24.6	0.00
I32	27 Aug 2016	1	19.82	75.29	7.6	33.42	8.2	23.6	3.17
I32	27 Aug 2016	2	19.76	75.71	7.3	33.42	8.2	23.6	3.47
I32	27 Aug 2016	3	19.71	76.09	7.0	33.37	8.2	23.6	3.62
I32	27 Aug 2016	4	18.70	74.27	6.8	33.22	8.2	23.7	3.60
I32	27 Aug 2016	5	17.05	73.92	7.0	33.13	8.2	24.1	3.58
I32	27 Aug 2016	6	15.96	74.38	7.3	33.23	8.2	24.4	3.50
I32	27 Aug 2016	7	15.55	73.82	7.4	33.24	8.1	24.5	3.49
I32	27 Aug 2016	8	15.45	73.56	7.5	33.24	8.1	24.5	3.43
I32	27 Aug 2016	9	15.27	71.48	7.5	33.24	8.1	24.6	3.54
I32	27 Aug 2016	10	15.35	70.59	7.5	33.26	8.1	24.6	3.34
I32	30 Aug 2016	1	19.64	78.33	8.8	33.40	8.2	23.6	2.24
I32	30 Aug 2016	2	19.60	78.21	7.9	33.40	8.2	23.6	2.95
I32	30 Aug 2016	3	19.54	78.29	7.7	33.40	8.2	23.7	2.94
I32	30 Aug 2016	4	19.46	77.92	7.8	33.39	8.2	23.7	2.92
I32	30 Aug 2016	5	19.32	75.93	7.7	33.38	8.2	23.7	2.92
I32	30 Aug 2016	6	19.12	69.75	7.8	33.35	8.2	23.7	3.02
I32	30 Aug 2016	7	18.67	67.79	7.8	33.34	8.2	23.8	2.97
I32	30 Aug 2016	8	18.40	69.80	7.9	33.35	8.2	23.9	2.86
I32	30 Aug 2016	9	18.29	67.47	8.1	33.37	8.2	24.0	2.28
I39	04 Aug 2016	1	22.53	78.62	7.8	33.53	8.3	23.0	1.52
I39	04 Aug 2016	2	22.45	78.55	7.6	33.53	8.3	23.0	2.14
I39	04 Aug 2016	3	20.07	78.88	8.1	33.48	8.3	23.6	2.42
I39	04 Aug 2016	4	19.35	79.48	8.1	33.45	8.2	23.8	2.53
I39	04 Aug 2016	5	19.12	79.50	8.0	33.44	8.2	23.8	2.69
I39	04 Aug 2016	6	18.96	79.60	7.7	33.43	8.2	23.8	2.82

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I39	04 Aug 2016	7	18.45	79.56	7.8	33.41	8.2	23.9	2.89
I39	04 Aug 2016	8	18.17	79.76	7.9	33.40	8.2	24.0	2.96
I39	04 Aug 2016	9	17.57	80.29	7.5	33.36	8.2	24.1	2.80
I39	04 Aug 2016	10	16.93	80.92	7.4	33.34	8.2	24.3	2.74
I39	04 Aug 2016	11	16.46	81.70	7.3	33.37	8.2	24.4	2.43
I39	04 Aug 2016	12	16.36	81.99	7.1	33.34	8.2	24.4	2.31
I39	04 Aug 2016	13	16.02	82.41	7.2	33.35	8.1	24.5	2.09
I39	04 Aug 2016	14	15.97	82.50	7.1	33.35	8.1	24.5	1.86
I39	04 Aug 2016	15	15.78	82.51	7.1	33.36	8.1	24.5	1.83
I39	04 Aug 2016	16	15.80	82.65	7.1	33.36	8.1	24.5	1.80
I39	04 Aug 2016	17	15.77	82.51	7.1	33.37	8.1	24.5	1.82
I39	04 Aug 2016	18	15.78	82.62	7.1	33.37	8.1	24.5	1.88
I39	11 Aug 2016	1	22.36	76.05	8.1	33.62	8.3	23.1	2.13
I39	11 Aug 2016	2	22.33	76.08	8.0	33.62	8.3	23.1	2.23
I39	11 Aug 2016	3	22.26	76.04	7.9	33.61	8.3	23.1	2.27
I39	11 Aug 2016	4	22.13	76.24	7.9	33.59	8.3	23.1	2.17
I39	11 Aug 2016	5	21.21	77.09	8.3	33.52	8.3	23.3	2.36
I39	11 Aug 2016	6	20.27	78.85	8.3	33.46	8.3	23.5	2.41
I39	11 Aug 2016	7	18.84	79.72	8.3	33.40	8.3	23.8	2.37
I39	11 Aug 2016	8	17.80	81.74	8.4	33.36	8.2	24.1	2.40
I39	11 Aug 2016	9	17.35	82.35	8.3	33.36	8.2	24.2	2.56
I39	11 Aug 2016	10	17.10	82.91	8.2	33.35	8.2	24.2	2.98
I39	11 Aug 2016	11	16.82	83.58	8.1	33.32	8.2	24.3	4.14
I39	11 Aug 2016	12	16.39	83.81	7.9	33.32	8.2	24.4	3.88
I39	11 Aug 2016	13	16.15	83.56	7.4	33.31	8.2	24.4	2.45
I39	11 Aug 2016	14	15.93	83.30	6.8	33.32	8.2	24.5	1.73
I39	11 Aug 2016	15	15.80	83.37	6.3	33.32	8.2	24.5	0.99
I39	11 Aug 2016	16	15.53	84.95	5.8	33.32	8.1	24.6	0.77
I39	11 Aug 2016	17	15.31	85.35	5.7	33.32	8.1	24.6	0.75
I39	11 Aug 2016	18	15.23	84.61	6.0	33.33	8.1	24.6	0.79
I39	24 Aug 2016	1	19.40	79.81	8.7	33.39	8.2	23.7	2.53
I39	24 Aug 2016	2	19.24	79.85	8.8	33.35	8.2	23.7	2.82
I39	24 Aug 2016	3	18.89	79.54	8.9	33.35	8.2	23.8	3.09
I39	24 Aug 2016	4	18.65	78.84	8.9	33.35	8.2	23.8	3.25
I39	24 Aug 2016	5	18.26	78.08	8.9	33.31	8.2	23.9	3.39
I39	24 Aug 2016	6	18.06	77.57	8.8	33.35	8.2	24.0	3.44
I39	24 Aug 2016	7	17.57	77.18	8.8	33.21	8.2	24.0	3.59
I39	24 Aug 2016	8	17.05	77.14	8.8	33.33	8.2	24.2	3.91
I39	24 Aug 2016	9	16.99	77.25	8.6	33.25	8.2	24.2	3.51
I39	24 Aug 2016	10	16.50	77.31	8.1	33.26	8.2	24.3	3.06
I39	24 Aug 2016	11	16.29	77.23	7.5	33.29	8.2	24.4	2.84
I39	24 Aug 2016	12	16.22	77.46	6.8	33.29	8.2	24.4	2.92
I39	24 Aug 2016	13	16.16	77.62	6.3	33.28	8.2	24.4	2.94
I39	24 Aug 2016	14	16.02	78.22	6.3	33.27	8.2	24.4	2.89
I39	24 Aug 2016	15	15.73	78.82	6.8	33.21	8.2	24.4	2.87
I39	24 Aug 2016	16	14.99	79.96	7.2	33.20	8.2	24.6	2.76
I39	24 Aug 2016	17	14.66	81.80	7.4	33.26	8.1	24.7	2.71
I39	24 Aug 2016	18	14.69	82.32	7.4	33.27	8.1	24.7	3.08
I39	27 Aug 2016	1	19.35	81.91	8.4	33.43	8.2	23.7	2.65
I39	27 Aug 2016	2	19.39	81.94	8.3	33.43	8.2	23.7	3.22
I39	27 Aug 2016	3	19.41	82.05	8.5	33.43	8.2	23.7	3.59
I39	27 Aug 2016	4	19.39	82.16	8.3	33.42	8.2	23.7	3.96

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I39	27 Aug 2016	5	19.13	82.12	8.1	33.29	8.2	23.7	4.32
I39	27 Aug 2016	6	17.92	80.84	8.1	33.22	8.2	23.9	4.68
I39	27 Aug 2016	7	17.20	79.76	7.9	33.30	8.2	24.2	4.93
I39	27 Aug 2016	8	16.90	79.78	7.7	33.25	8.2	24.2	4.15
I39	27 Aug 2016	9	16.29	80.47	7.5	33.17	8.2	24.3	2.98
I39	27 Aug 2016	10	15.70	79.69	7.3	33.21	8.2	24.4	2.32
I39	27 Aug 2016	11	15.28	79.38	7.0	33.21	8.2	24.5	2.29
I39	27 Aug 2016	12	15.10	79.85	6.7	33.24	8.2	24.6	2.29
I39	27 Aug 2016	13	15.05	79.84	6.4	33.23	8.2	24.6	2.25
I39	27 Aug 2016	14	14.95	79.70	6.4	33.22	8.2	24.6	2.09
I39	27 Aug 2016	15	14.84	79.52	6.5	33.21	8.2	24.6	2.18
I39	27 Aug 2016	16	14.71	78.93	6.8	33.21	8.1	24.7	2.23
I39	27 Aug 2016	17	14.58	80.23	7.0	33.22	8.1	24.7	2.23
I39	27 Aug 2016	18	14.55	81.46	7.1	33.24	8.1	24.7	2.94
I39	30 Aug 2016	1	18.71	80.83	7.8	33.42	8.2	23.9	1.54
I39	30 Aug 2016	2	18.71	80.13	7.8	33.42	8.2	23.9	2.21
I39	30 Aug 2016	3	18.66	80.83	7.8	33.45	8.2	23.9	2.52
I39	30 Aug 2016	4	17.75	80.91	7.8	33.65	8.2	24.3	2.97
I39	30 Aug 2016	5	16.93	80.44	7.8	33.53	8.2	24.4	3.26
I39	30 Aug 2016	6	16.58	80.46	7.7	33.42	8.2	24.4	3.11
I39	30 Aug 2016	7	16.35	80.20	7.5	33.37	8.2	24.4	2.88
I39	30 Aug 2016	8	16.17	79.99	7.2	33.32	8.2	24.4	2.14
I39	30 Aug 2016	9	15.84	80.03	6.9	33.30	8.2	24.5	1.95
I39	30 Aug 2016	10	15.69	80.18	6.6	33.32	8.2	24.5	1.94
I39	30 Aug 2016	11	15.60	80.15	6.0	33.27	8.1	24.5	1.55
I39	30 Aug 2016	12	15.24	79.46	5.3	33.29	8.1	24.6	1.24
I39	30 Aug 2016	13	15.35	79.24	5.0	33.28	8.1	24.6	1.20
I39	30 Aug 2016	14	14.77	79.98	5.0	33.21	8.1	24.6	1.23
I39	30 Aug 2016	15	14.26	82.02	5.0	33.24	8.1	24.8	1.14
I39	30 Aug 2016	16	14.13	82.75	5.2	33.30	8.0	24.8	1.31
I39	30 Aug 2016	17	14.09	82.69	5.7	33.24	8.0	24.8	1.33
I39	30 Aug 2016	18	13.86	81.42	5.9	33.29	8.0	24.9	1.41
I40	04 Aug 2016	1	22.56	75.29	6.9	33.54	8.2	23.0	1.87
I40	04 Aug 2016	2	22.15	75.00	6.7	33.50	8.2	23.0	2.63
I40	04 Aug 2016	3	19.68	73.80	7.0	33.42	8.2	23.6	3.41
I40	04 Aug 2016	4	18.82	74.79	6.9	33.42	8.2	23.9	3.54
I40	04 Aug 2016	5	18.42	74.73	6.7	33.40	8.2	23.9	3.64
I40	04 Aug 2016	6	18.07	74.84	6.5	33.40	8.1	24.0	3.56
I40	04 Aug 2016	7	18.01	74.85	6.3	33.39	8.1	24.0	3.32
I40	04 Aug 2016	8	17.92	73.98	6.2	33.39	8.1	24.1	3.12
I40	04 Aug 2016	9	17.72	72.60	6.3	33.38	8.1	24.1	3.15
I40	04 Aug 2016	10	17.58	70.88	6.5	33.39	8.1	24.1	3.21
I40	11 Aug 2016	1	22.97	75.54	7.8	33.64	8.3	22.9	1.93
I40	11 Aug 2016	2	22.92	75.60	7.7	33.63	8.3	22.9	2.16
I40	11 Aug 2016	3	22.67	75.57	7.5	33.59	8.3	23.0	2.41
I40	11 Aug 2016	4	21.84	76.07	7.3	33.57	8.3	23.2	2.67
I40	11 Aug 2016	5	21.30	76.72	7.0	33.52	8.3	23.3	2.80
I40	11 Aug 2016	6	20.29	76.52	6.7	33.47	8.2	23.5	3.00
I40	11 Aug 2016	7	19.82	75.14	6.1	33.46	8.2	23.6	3.21
I40	11 Aug 2016	8	19.37	73.37	5.4	33.43	8.2	23.7	3.34
I40	11 Aug 2016	9	18.82	70.93	5.2	33.42	8.1	23.9	3.12
I40	11 Aug 2016	10	18.61	66.95	5.9	33.41	8.1	23.9	2.94

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I40	24 Aug 2016	1	17.24	76.20	8.4	33.29	8.2	24.1	2.25
I40	24 Aug 2016	2	16.45	76.21	8.0	33.30	8.2	24.3	3.58
I40	24 Aug 2016	3	16.02	75.80	7.6	33.32	8.2	24.4	4.58
I40	24 Aug 2016	4	15.85	76.08	7.3	33.29	8.2	24.5	4.23
I40	24 Aug 2016	5	15.70	77.50	7.2	33.29	8.2	24.5	3.33
I40	24 Aug 2016	6	15.40	78.97	7.4	33.28	8.2	24.6	3.51
I40	24 Aug 2016	7	15.14	75.69	7.4	33.29	8.1	24.6	3.68
I40	24 Aug 2016	8	15.11	72.66	7.6	33.29	8.1	24.6	4.19
I40	24 Aug 2016	9	15.08	70.43	7.7	33.29	8.1	24.6	3.53
I40	27 Aug 2016	1	19.71	76.90	7.5	33.41	8.2	23.6	4.38
I40	27 Aug 2016	2	19.67	76.95	7.4	33.39	8.2	23.6	5.10
I40	27 Aug 2016	3	19.29	73.96	7.1	33.31	8.2	23.7	5.29
I40	27 Aug 2016	4	18.02	70.42	7.0	33.20	8.2	23.9	4.96
I40	27 Aug 2016	5	16.66	71.69	6.9	33.18	8.2	24.2	4.44
I40	27 Aug 2016	6	15.70	72.77	6.7	33.23	8.2	24.5	4.73
I40	27 Aug 2016	7	15.39	72.52	6.7	33.24	8.1	24.5	4.93
I40	27 Aug 2016	8	15.30	72.42	6.9	33.24	8.1	24.6	5.04
I40	27 Aug 2016	9	15.23	70.53	7.3	33.24	8.1	24.6	4.97
I40	27 Aug 2016	10	15.23	66.91	7.5	33.25	8.1	24.6	4.87
I40	30 Aug 2016	1	19.46	74.18	8.2	33.28	8.2	23.6	1.63
I40	30 Aug 2016	2	19.40	77.64	7.2	33.36	8.2	23.7	2.21
I40	30 Aug 2016	3	18.73	76.98	6.7	33.50	8.2	23.9	2.30
I40	30 Aug 2016	4	18.08	74.54	6.2	33.50	8.2	24.1	1.25
I40	30 Aug 2016	5	17.50	68.17	5.6	33.46	8.2	24.2	1.48
I40	30 Aug 2016	6	17.04	64.94	5.4	33.42	8.1	24.3	1.18
I40	30 Aug 2016	7	16.84	63.74	5.4	33.36	8.1	24.3	1.27
I40	30 Aug 2016	8	15.63	61.41	5.7	33.27	8.1	24.5	1.27
I40	30 Aug 2016	9	14.91	57.80	5.4	33.55	8.1	24.9	0.73
I40	30 Aug 2016	10	14.89	54.37	5.0	33.59	8.1	24.9	2.07

NA = not available

Offshore Stations

Table 4.1

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 10,000 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
03 Aug 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
04 Aug 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.2

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Fecal coliform density shall not exceed 400 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
03 Aug 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
04 Aug 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.3

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria at the SBOO offshore stations within three nautical miles of shore. *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
03 Aug 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
04 Aug 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.4

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

Date	I12	I14	I16	I18	I22	I23	I33	I36	I37	I38
03 Aug 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
04 Aug 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Table 4.5

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

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I3	02 Aug 2016	947	2	<2	<2	<2	1.00	22.7	82.53	8.8	33.58	8.3	<0.2	3.0
I3	02 Aug 2016	947	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I3	02 Aug 2016	947	18	<2	<2	<2	1.00	16.8	82.96	7.5	33.31	8.2	ns	<0.2
I3	02 Aug 2016	947	27	<2	<2	<2	1.00	14.7	82.88	7.5	33.35	8.1	ns	<0.2
I5	02 Aug 2016	1011	2	<20	2e	<2	0.10	22.1	79.34	8.6	33.53	8.3	<0.2	2.8
I5	02 Aug 2016	1011	6	8e	2e	4e	0.25	21.3	77.98	8.6	33.51	8.3	ns	<0.2
I5	02 Aug 2016	1011	11	64	<2	40	0.03	17.9	77.21	7.3	33.39	8.2	ns	<0.2
I7	02 Aug 2016	837	2	<2	<2	<2	1.00	22.4	82.45	8.9	33.57	8.3	<0.2	<0.2
I7	02 Aug 2016	837	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.8*
I7	02 Aug 2016	837	18	<2	<2	<2	1.00	17.3	82.46	8.1	33.36	8.2	ns	<0.2
I7	02 Aug 2016	837	52	<2	<2	<2	1.00	12.2	86.56	5.7	33.42	7.9	ns	<0.2
I8	02 Aug 2016	1133	2	<2	<2	<2	1.00	23.1	80.27	8.8	33.58	8.3	<0.2	<0.2
I8	02 Aug 2016	1133	18	<2	<2	<2	1.00	14.4	83.35	7.4	33.32	8.1	ns	<0.2
I8	02 Aug 2016	1133	37	<2	<2	<2	1.00	13.8	85.85	7.0	33.37	8.0	ns	2.6
I9	02 Aug 2016	1117	2	<2	<2	<2	1.00	22.9	81.27	8.9	33.58	8.3	<0.2	<0.2
I9	02 Aug 2016	1117	18	<2	<2	<2	1.00	16.1	84.16	7.7	33.31	8.2	ns	<0.2
I9	02 Aug 2016	1117	27	<2	<2	<2	1.00	14.9	83.12	7.6	33.36	8.1	ns	<0.2
I10	02 Aug 2016	1102	2	<2	<2	<2	1.00	22.6	82.54	8.9	33.57	8.3	<0.2	<0.2
I10	02 Aug 2016	1102	12	2e	<2	<2	1.00	19.9	82.14	9.0	33.47	8.3	ns	2.8
I10	02 Aug 2016	1102	18	6e	<2	2e	0.33	16.3	80.73	7.4	33.36	8.2	ns	<0.2
I11	02 Aug 2016	1048	2	<20	<2	<2	0.10	23.0	81.17	8.5	33.55	8.3	<0.2	<0.2
I11	02 Aug 2016	1048	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I11	02 Aug 2016	1048	6	<20	<2	2e	0.10	21.2	77.95	7.8	33.47	8.3	ns	2.8
I11	02 Aug 2016	1048	11	20e	<2	<2	0.10	17.5	78.29	7.4	33.37	8.2	ns	<0.2
I12	04 Aug 2016	1024	2	<2	<2	<2	1.00	23.0	78.03	8.3	33.55	8.3	<5.1	3.6
I12	04 Aug 2016	1024	18	<2	<2	<2	1.00	16.9	82.02	7.4	33.35	8.2	ns	<0.2
I12	04 Aug 2016	1024	27	<20	<2	<2	0.10	15.6	81.66	7.4	33.36	8.1	ns	<0.2
I13	02 Aug 2016	1152	2	<2	<2	<2	1.00	23.0	81.02	8.9	33.56	8.3	<0.2	<0.2
I13	02 Aug 2016	1152	18	<2	<2	<2	1.00	16.2	84.43	8.0	33.37	8.2	ns	<0.2
I13	02 Aug 2016	1152	37	<2	<2	<2	1.00	13.6	86.07	6.7	33.38	8.0	ns	<0.2
I14	04 Aug 2016	1045	2	<2	<2	<2	1.00	22.7	78.46	8.4	33.55	8.3	<0.2	<0.2
I14	04 Aug 2016	1045	18	<2	<2	<2	1.00	16.9	82.37	7.8	33.34	8.2	ns	3.0
I14	04 Aug 2016	1045	27	6e	<2	2e	0.33	15.5	83.18	7.3	33.36	8.1	ns	3.6
I16	04 Aug 2016	1011	2	<2	<2	<2	1.00	22.9	76.58	8.3	33.55	8.3	ND	<0.2
I16	04 Aug 2016	1011	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I16	04 Aug 2016	1011	18	2e	<2	<2	1.00	17.1	82.43	7.9	33.34	8.2	ns	2.6

Station	Date	Time	Depth	Total	Fecal	Enter	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	04 Aug 2016	1011	27	<2	<2	<2	1.00	15.7	82.44	7.4	33.36	8.1	ns	2.9
I18	04 Aug 2016	948	2	<2	<2	<2	1.00	22.6	76.21	7.5	33.56	8.3	<5.1	<0.2
I18	04 Aug 2016	948	12	2e	<2	<2	1.00	17.2	80.99	7.5	33.35	8.2	ns	<0.2
I18	04 Aug 2016	948	18	6e	<2	2e	0.33	16.1	80.89	7.2	33.35	8.1	ns	3.2
I20	02 Aug 2016	818	2	<20	<2	<2	0.10	22.6	81.47	9.2	33.59	8.3	<0.2	<0.2
I20	02 Aug 2016	818	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I20	02 Aug 2016	818	18	<2	<2	<2	1.00	16.0	82.72	8.9	33.35	8.2	ns	<0.2
I20	02 Aug 2016	818	55	<2	<2	<2	1.00	12.1	86.93	5.5	33.43	7.9	ns	3.0
I21	02 Aug 2016	1209	2	<2	<2	<2	1.00	23.0	79.54	9.2	33.58	8.4	<0.2	<0.2
I21	02 Aug 2016	1209	18	<2	<2	<2	1.00	15.6	84.69	7.5	33.36	8.2	ns	<0.2
I21	02 Aug 2016	1209	37	<2	<2	<2	1.00	13.2	86.98	6.5	33.37	8.0	ns	<0.2
I22	04 Aug 2016	1056	2	<2	<2	<2	1.00	23.0	78.53	8.3	33.56	8.3	<5.1	<0.2
I22	04 Aug 2016	1056	18	<2	<2	<2	1.00	16.9	82.51	8.0	33.35	8.2	ns	<0.2
I22	04 Aug 2016	1056	27	2e	<2	<2	1.00	15.7	82.73	7.0	33.37	8.1	ns	<0.2
I23	04 Aug 2016	1108	2	<2	<2	<2	1.00	23.1	76.88	8.0	33.55	8.3	<0.2	<0.2
I23	04 Aug 2016	1108	12	8e	<2	<2	0.25	18.5	77.74	8.3	33.40	8.2	ns	<0.2
I23	04 Aug 2016	1108	18	4e	<2	<2	0.50	17.1	80.25	7.7	33.37	8.2	ns	<0.2
I30	03 Aug 2016	925	2	<2	<2	<2	1.00	22.6	81.59	8.5	33.56	8.3	<5.1	<0.2
I30	03 Aug 2016	925	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.5*
I30	03 Aug 2016	925	18	2e	<2	<2	1.00	17.4	83.03	7.7	33.35	8.2	ns	<0.2
I30	03 Aug 2016	925	27	<2	<2	<2	1.00	14.6	84.51	7.2	33.33	8.1	ns	<0.2
I33	03 Aug 2016	830	2	<2	<2	<2	1.00	22.2	80.43	8.6	33.56	8.3	<5.1	<0.2
I33	03 Aug 2016	830	18	6e	<2	<2	0.33	14.9	84.66	6.8	33.33	8.1	ns	2.6
I33	03 Aug 2016	830	27	<20	<2	<2	0.10	13.9	85.82	6.8	33.34	8.1	ns	2.6
I36	03 Aug 2016	1012	2	<2	<2	<2	1.00	22.9	77.46	8.0	33.53	8.3	<5.1	<0.2
I36	03 Aug 2016	1012	6	<2	<2	<2	1.00	22.6	77.19	8.0	33.51	8.3	ns	<0.2
I36	03 Aug 2016	1012	11	<2	<2	<2	1.00	17.8	68.36	5.2	33.40	8.0	ns	2.8
I37	03 Aug 2016	749	2	<20	<2	<2	0.10	21.0	77.05	7.6	33.54	8.2	<5.1	<0.2
I37	03 Aug 2016	749	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I37	03 Aug 2016	749	6	20e	<2	<2	0.10	18.3	76.67	7.2	33.45	8.2	ns	<0.2
I37	03 Aug 2016	749	11	2e	<2	<2	1.00	16.8	78.84	7.3	33.40	8.1	ns	2.7
I38	03 Aug 2016	1043	2	<2	<2	<2	1.00	22.9	79.31	7.9	33.54	8.3	<5.1	<0.2
I38	03 Aug 2016	1043	6	<2	<2	<2	1.00	20.1	76.49	7.8	33.44	8.3	ns	<0.2
I38	03 Aug 2016	1043	11	<2	<2	<2	1.00	17.5	75.72	6.1	33.41	8.0	ns	3.4

ns = not sampled

ND = no data

Table 4.6

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

Station	Date	Parameter	Value
I1	02 Aug 2016	Depth (m)	60
I1	02 Aug 2016	Arrive Time	907
I1	02 Aug 2016	Depart Time	915
I1	02 Aug 2016	Air Temp (C)	22
I1	02 Aug 2016	Weather	Partly Cloudy
I1	02 Aug 2016	Visibility (mi)	10
I1	02 Aug 2016	Wind Speed (kts)	1
I1	02 Aug 2016	Wind Dir	SW
I1	02 Aug 2016	Water Color	Bluish-Green
I1	02 Aug 2016	Wave Ht Low (ft)	4
I1	02 Aug 2016	Wave Period (sec)	13
I1	02 Aug 2016	Sea State	Calm
I1	02 Aug 2016	High Tide (ft)	4.48
I1	02 Aug 2016	High Tide Time	1003
I1	02 Aug 2016	Low Tide (ft)	1.42
I1	02 Aug 2016	Low Tide Time	1526
I1	02 Aug 2016	Comments	
I2	02 Aug 2016	Depth (m)	32
I2	02 Aug 2016	Arrive Time	932
I2	02 Aug 2016	Depart Time	946
I2	02 Aug 2016	Air Temp (C)	22
I2	02 Aug 2016	Weather	Partly Cloudy
I2	02 Aug 2016	Visibility (mi)	10
I2	02 Aug 2016	Wind Speed (kts)	5
I2	02 Aug 2016	Wind Dir	NE
I2	02 Aug 2016	Water Color	Green
I2	02 Aug 2016	Wave Ht Low (ft)	4
I2	02 Aug 2016	Wave Period (sec)	13
I2	02 Aug 2016	Sea State	Calm
I2	02 Aug 2016	High Tide (ft)	4.48
I2	02 Aug 2016	High Tide Time	1003
I2	02 Aug 2016	Low Tide (ft)	1.42
I2	02 Aug 2016	Low Tide Time	1526
I2	02 Aug 2016	Comments	
I3	02 Aug 2016	Depth (m)	28
I3	02 Aug 2016	Arrive Time	947
I3	02 Aug 2016	Depart Time	955
I3	02 Aug 2016	Air Temp (C)	22
I3	02 Aug 2016	Weather	Partly Cloudy
I3	02 Aug 2016	Visibility (mi)	10
I3	02 Aug 2016	Wind Speed (kts)	4
I3	02 Aug 2016	Wind Dir	SW
I3	02 Aug 2016	Water Color	Green
I3	02 Aug 2016	Wave Ht Low (ft)	4
I3	02 Aug 2016	Wave Period (sec)	13
I3	02 Aug 2016	Sea State	Calm
I3	02 Aug 2016	High Tide (ft)	4.48
I3	02 Aug 2016	High Tide Time	1003
I3	02 Aug 2016	Low Tide (ft)	1.42

Station	Date	Parameter	Value
I3	02 Aug 2016	Low Tide Time	1526
I3	02 Aug 2016	Comments	
I4	02 Aug 2016	Depth (m)	18
I4	02 Aug 2016	Arrive Time	1003
I4	02 Aug 2016	Depart Time	1007
I4	02 Aug 2016	Air Temp (C)	22
I4	02 Aug 2016	Weather	Partly Cloudy
I4	02 Aug 2016	Visibility (mi)	10
I4	02 Aug 2016	Wind Speed (kts)	7
I4	02 Aug 2016	Wind Dir	W
I4	02 Aug 2016	Water Color	Green
I4	02 Aug 2016	Wave Ht Low (ft)	4
I4	02 Aug 2016	Wave Period (sec)	13
I4	02 Aug 2016	Sea State	Calm
I4	02 Aug 2016	High Tide (ft)	4.48
I4	02 Aug 2016	High Tide Time	1003
I4	02 Aug 2016	Low Tide (ft)	1.42
I4	02 Aug 2016	Low Tide Time	1526
I4	02 Aug 2016	Comments	
I5	02 Aug 2016	Depth (m)	15
I5	02 Aug 2016	Arrive Time	1011
I5	02 Aug 2016	Depart Time	1016
I5	02 Aug 2016	Air Temp (C)	22
I5	02 Aug 2016	Weather	Partly Cloudy
I5	02 Aug 2016	Visibility (mi)	10
I5	02 Aug 2016	Wind Speed (kts)	4
I5	02 Aug 2016	Wind Dir	NE
I5	02 Aug 2016	Water Color	Green
I5	02 Aug 2016	Wave Ht Low (ft)	4
I5	02 Aug 2016	Wave Period (sec)	13
I5	02 Aug 2016	Sea State	Calm
I5	02 Aug 2016	High Tide (ft)	4.48
I5	02 Aug 2016	High Tide Time	1003
I5	02 Aug 2016	Low Tide (ft)	1.42
I5	02 Aug 2016	Low Tide Time	1526
I5	02 Aug 2016	Comments	
I6	02 Aug 2016	Depth (m)	26
I6	02 Aug 2016	Arrive Time	1032
I6	02 Aug 2016	Depart Time	1037
I6	02 Aug 2016	Air Temp (C)	22
I6	02 Aug 2016	Weather	Partly Cloudy
I6	02 Aug 2016	Visibility (mi)	12
I6	02 Aug 2016	Wind Speed (kts)	8
I6	02 Aug 2016	Wind Dir	SW
I6	02 Aug 2016	Water Color	Green
I6	02 Aug 2016	Wave Ht Low (ft)	4
I6	02 Aug 2016	Wave Period (sec)	13
I6	02 Aug 2016	Sea State	Calm
I6	02 Aug 2016	High Tide (ft)	4.48
I6	02 Aug 2016	High Tide Time	1003
I6	02 Aug 2016	Low Tide (ft)	1.42
I6	02 Aug 2016	Low Tide Time	1526

Station	Date	Parameter	Value
I6	02 Aug 2016	Comments	
I7	02 Aug 2016	Depth (m)	52
I7	02 Aug 2016	Arrive Time	837
I7	02 Aug 2016	Depart Time	849
I7	02 Aug 2016	Air Temp (C)	21
I7	02 Aug 2016	Weather	Cloudy
I7	02 Aug 2016	Visibility (mi)	9
I7	02 Aug 2016	Wind Speed (kts)	4
I7	02 Aug 2016	Wind Dir	N
I7	02 Aug 2016	Water Color	Greenish-Blue
I7	02 Aug 2016	Wave Ht Low (ft)	4
I7	02 Aug 2016	Wave Period (sec)	13
I7	02 Aug 2016	Sea State	Calm
I7	02 Aug 2016	High Tide (ft)	4.48
I7	02 Aug 2016	High Tide Time	1003
I7	02 Aug 2016	Low Tide (ft)	1.42
I7	02 Aug 2016	Low Tide Time	1526
I7	02 Aug 2016	Comments	
I8	02 Aug 2016	Depth (m)	37
I8	02 Aug 2016	Arrive Time	1133
I8	02 Aug 2016	Depart Time	1138
I8	02 Aug 2016	Air Temp (C)	22
I8	02 Aug 2016	Weather	Partly Cloudy
I8	02 Aug 2016	Visibility (mi)	14
I8	02 Aug 2016	Wind Speed (kts)	7
I8	02 Aug 2016	Wind Dir	S
I8	02 Aug 2016	Water Color	Green
I8	02 Aug 2016	Wave Ht Low (ft)	3
I8	02 Aug 2016	Wave Period (sec)	13
I8	02 Aug 2016	Sea State	Light chop
I8	02 Aug 2016	High Tide (ft)	4.48
I8	02 Aug 2016	High Tide Time	1003
I8	02 Aug 2016	Low Tide (ft)	1.42
I8	02 Aug 2016	Low Tide Time	1526
I8	02 Aug 2016	Comments	
I9	02 Aug 2016	Depth (m)	29
I9	02 Aug 2016	Arrive Time	1117
I9	02 Aug 2016	Depart Time	1122
I9	02 Aug 2016	Air Temp (C)	22
I9	02 Aug 2016	Weather	Partly Cloudy
I9	02 Aug 2016	Visibility (mi)	14
I9	02 Aug 2016	Wind Speed (kts)	9
I9	02 Aug 2016	Wind Dir	SW
I9	02 Aug 2016	Water Color	Green
I9	02 Aug 2016	Wave Ht Low (ft)	3
I9	02 Aug 2016	Wave Period (sec)	13
I9	02 Aug 2016	Sea State	Light chop
I9	02 Aug 2016	High Tide (ft)	4.48
I9	02 Aug 2016	High Tide Time	1003
I9	02 Aug 2016	Low Tide (ft)	1.42
I9	02 Aug 2016	Low Tide Time	1526
I9	02 Aug 2016	Comments	

Station	Date	Parameter	Value
I10	02 Aug 2016	Depth (m)	21
I10	02 Aug 2016	Arrive Time	1102
I10	02 Aug 2016	Depart Time	1108
I10	02 Aug 2016	Air Temp (C)	22
I10	02 Aug 2016	Weather	Partly Cloudy
I10	02 Aug 2016	Visibility (mi)	12
I10	02 Aug 2016	Wind Speed (kts)	9
I10	02 Aug 2016	Wind Dir	SW
I10	02 Aug 2016	Water Color	Green
I10	02 Aug 2016	Wave Ht Low (ft)	3
I10	02 Aug 2016	Wave Period (sec)	13
I10	02 Aug 2016	Sea State	Light chop
I10	02 Aug 2016	High Tide (ft)	4.48
I10	02 Aug 2016	High Tide Time	1003
I10	02 Aug 2016	Low Tide (ft)	1.42
I10	02 Aug 2016	Low Tide Time	1526
I10	02 Aug 2016	Comments	
I11	02 Aug 2016	Depth (m)	14
I11	02 Aug 2016	Arrive Time	1048
I11	02 Aug 2016	Depart Time	1052
I11	02 Aug 2016	Air Temp (C)	22
I11	02 Aug 2016	Weather	Partly Cloudy
I11	02 Aug 2016	Visibility (mi)	12
I11	02 Aug 2016	Wind Speed (kts)	8
I11	02 Aug 2016	Wind Dir	SW
I11	02 Aug 2016	Water Color	Green
I11	02 Aug 2016	Wave Ht Low (ft)	3
I11	02 Aug 2016	Wave Period (sec)	13
I11	02 Aug 2016	Sea State	Light chop
I11	02 Aug 2016	High Tide (ft)	4.48
I11	02 Aug 2016	High Tide Time	1003
I11	02 Aug 2016	Low Tide (ft)	1.42
I11	02 Aug 2016	Low Tide Time	1526
I11	02 Aug 2016	Comments	
I12	04 Aug 2016	Depth (m)	30
I12	04 Aug 2016	Arrive Time	1024
I12	04 Aug 2016	Depart Time	1030
I12	04 Aug 2016	Air Temp (C)	21
I12	04 Aug 2016	Weather	Partly Cloudy
I12	04 Aug 2016	Visibility (mi)	11
I12	04 Aug 2016	Wind Speed (kts)	4
I12	04 Aug 2016	Wind Dir	W
I12	04 Aug 2016	Water Color	Green
I12	04 Aug 2016	Wave Ht Low (ft)	4
I12	04 Aug 2016	Wave Period (sec)	16
I12	04 Aug 2016	Sea State	Wind ripples
I12	04 Aug 2016	High Tide (ft)	4.59
I12	04 Aug 2016	High Tide Time	1113
I12	04 Aug 2016	Low Tide (ft)	-0.5
I12	04 Aug 2016	Low Tide Time	500
I12	04 Aug 2016	Comments	

Station	Date	Parameter	Value
I13	02 Aug 2016	Depth (m)	38
I13	02 Aug 2016	Arrive Time	1152
I13	02 Aug 2016	Depart Time	1202
I13	02 Aug 2016	Air Temp (C)	22
I13	02 Aug 2016	Weather	Partly Cloudy
I13	02 Aug 2016	Visibility (mi)	14
I13	02 Aug 2016	Wind Speed (kts)	10
I13	02 Aug 2016	Wind Dir	E
I13	02 Aug 2016	Water Color	Green
I13	02 Aug 2016	Wave Ht Low (ft)	3
I13	02 Aug 2016	Wave Period (sec)	13
I13	02 Aug 2016	Sea State	Light chop
I13	02 Aug 2016	High Tide (ft)	4.48
I13	02 Aug 2016	High Tide Time	1003
I13	02 Aug 2016	Low Tide (ft)	1.42
I13	02 Aug 2016	Low Tide Time	1526
I13	02 Aug 2016	Comments	
I14	04 Aug 2016	Depth (m)	30
I14	04 Aug 2016	Arrive Time	1045
I14	04 Aug 2016	Depart Time	1050
I14	04 Aug 2016	Air Temp (C)	21
I14	04 Aug 2016	Weather	Haze
I14	04 Aug 2016	Visibility (mi)	12
I14	04 Aug 2016	Wind Speed (kts)	7
I14	04 Aug 2016	Wind Dir	NE
I14	04 Aug 2016	Water Color	Green
I14	04 Aug 2016	Wave Ht Low (ft)	4
I14	04 Aug 2016	Wave Period (sec)	16
I14	04 Aug 2016	Sea State	Light chop
I14	04 Aug 2016	High Tide (ft)	4.59
I14	04 Aug 2016	High Tide Time	1113
I14	04 Aug 2016	Low Tide (ft)	-0.5
I14	04 Aug 2016	Low Tide Time	500
I14	04 Aug 2016	Comments	
I15	04 Aug 2016	Depth (m)	33
I15	04 Aug 2016	Arrive Time	1034
I15	04 Aug 2016	Depart Time	1040
I15	04 Aug 2016	Air Temp (C)	20
I15	04 Aug 2016	Weather	Haze
I15	04 Aug 2016	Visibility (mi)	12
I15	04 Aug 2016	Wind Speed (kts)	6
I15	04 Aug 2016	Wind Dir	NE
I15	04 Aug 2016	Water Color	Green
I15	04 Aug 2016	Wave Ht Low (ft)	4
I15	04 Aug 2016	Wave Period (sec)	16
I15	04 Aug 2016	Sea State	Wind ripples
I15	04 Aug 2016	High Tide (ft)	4.59
I15	04 Aug 2016	High Tide Time	1113
I15	04 Aug 2016	Low Tide (ft)	-0.5
I15	04 Aug 2016	Low Tide Time	500
I15	04 Aug 2016	Comments	
I16	04 Aug 2016	Depth (m)	30

Station	Date	Parameter	Value
I16	04 Aug 2016	Arrive Time	1011
I16	04 Aug 2016	Depart Time	1018
I16	04 Aug 2016	Air Temp (C)	20
I16	04 Aug 2016	Weather	Partly Cloudy
I16	04 Aug 2016	Visibility (mi)	11
I16	04 Aug 2016	Wind Speed (kts)	5
I16	04 Aug 2016	Wind Dir	S
I16	04 Aug 2016	Water Color	Green
I16	04 Aug 2016	Wave Ht Low (ft)	4
I16	04 Aug 2016	Wave Period (sec)	16
I16	04 Aug 2016	Sea State	Wind ripples
I16	04 Aug 2016	High Tide (ft)	4.59
I16	04 Aug 2016	High Tide Time	1113
I16	04 Aug 2016	Low Tide (ft)	-0.5
I16	04 Aug 2016	Low Tide Time	500
I16	04 Aug 2016	Comments	
I17	04 Aug 2016	Depth (m)	29
I17	04 Aug 2016	Arrive Time	1000
I17	04 Aug 2016	Depart Time	1005
I17	04 Aug 2016	Air Temp (C)	21
I17	04 Aug 2016	Weather	Partly Cloudy
I17	04 Aug 2016	Visibility (mi)	11
I17	04 Aug 2016	Wind Speed (kts)	5
I17	04 Aug 2016	Wind Dir	E
I17	04 Aug 2016	Water Color	Bluish-Green
I17	04 Aug 2016	Wave Ht Low (ft)	4
I17	04 Aug 2016	Wave Period (sec)	16
I17	04 Aug 2016	Sea State	Wind ripples
I17	04 Aug 2016	High Tide (ft)	4.59
I17	04 Aug 2016	High Tide Time	1113
I17	04 Aug 2016	Low Tide (ft)	-0.5
I17	04 Aug 2016	Low Tide Time	500
I17	04 Aug 2016	Comments	
I18	04 Aug 2016	Depth (m)	21
I18	04 Aug 2016	Arrive Time	948
I18	04 Aug 2016	Depart Time	951
I18	04 Aug 2016	Air Temp (C)	21
I18	04 Aug 2016	Weather	Partly Cloudy
I18	04 Aug 2016	Visibility (mi)	11
I18	04 Aug 2016	Wind Speed (kts)	5
I18	04 Aug 2016	Wind Dir	E
I18	04 Aug 2016	Water Color	Bluish-Green
I18	04 Aug 2016	Wave Ht Low (ft)	4
I18	04 Aug 2016	Wave Period (sec)	16
I18	04 Aug 2016	Sea State	Wind ripples
I18	04 Aug 2016	High Tide (ft)	4.59
I18	04 Aug 2016	High Tide Time	1113
I18	04 Aug 2016	Low Tide (ft)	-0.5
I18	04 Aug 2016	Low Tide Time	500
I18	04 Aug 2016	Comments	
I20	02 Aug 2016	Depth (m)	55
I20	02 Aug 2016	Arrive Time	818

Station	Date	Parameter	Value
I20	02 Aug 2016	Depart Time	828
I20	02 Aug 2016	Air Temp (C)	21
I20	02 Aug 2016	Weather	Cloudy
I20	02 Aug 2016	Visibility (mi)	7
I20	02 Aug 2016	Wind Speed (kts)	6
I20	02 Aug 2016	Wind Dir	S
I20	02 Aug 2016	Water Color	Greenish-Blue
I20	02 Aug 2016	Wave Ht Low (ft)	4
I20	02 Aug 2016	Wave Period (sec)	13
I20	02 Aug 2016	Sea State	Calm
I20	02 Aug 2016	High Tide (ft)	4.48
I20	02 Aug 2016	High Tide Time	1003
I20	02 Aug 2016	Low Tide (ft)	1.42
I20	02 Aug 2016	Low Tide Time	1526
I20	02 Aug 2016	Comments	
I21	02 Aug 2016	Depth (m)	37
I21	02 Aug 2016	Arrive Time	1209
I21	02 Aug 2016	Depart Time	1218
I21	02 Aug 2016	Air Temp (C)	22
I21	02 Aug 2016	Weather	Partly Cloudy
I21	02 Aug 2016	Visibility (mi)	14
I21	02 Aug 2016	Wind Speed (kts)	7
I21	02 Aug 2016	Wind Dir	N
I21	02 Aug 2016	Water Color	Green
I21	02 Aug 2016	Wave Ht Low (ft)	3
I21	02 Aug 2016	Wave Period (sec)	13
I21	02 Aug 2016	Sea State	Light chop
I21	02 Aug 2016	High Tide (ft)	4.48
I21	02 Aug 2016	High Tide Time	1003
I21	02 Aug 2016	Low Tide (ft)	1.42
I21	02 Aug 2016	Low Tide Time	1526
I21	02 Aug 2016	Comments	none
I22	04 Aug 2016	Depth (m)	29
I22	04 Aug 2016	Arrive Time	1056
I22	04 Aug 2016	Depart Time	1102
I22	04 Aug 2016	Air Temp (C)	21
I22	04 Aug 2016	Weather	Haze
I22	04 Aug 2016	Visibility (mi)	12
I22	04 Aug 2016	Wind Speed (kts)	6
I22	04 Aug 2016	Wind Dir	E
I22	04 Aug 2016	Water Color	Green
I22	04 Aug 2016	Wave Ht Low (ft)	4
I22	04 Aug 2016	Wave Period (sec)	16
I22	04 Aug 2016	Sea State	Light chop
I22	04 Aug 2016	High Tide (ft)	4.59
I22	04 Aug 2016	High Tide Time	1113
I22	04 Aug 2016	Low Tide (ft)	-0.5
I22	04 Aug 2016	Low Tide Time	500
I22	04 Aug 2016	Comments	
I23	04 Aug 2016	Depth (m)	22
I23	04 Aug 2016	Arrive Time	1108
I23	04 Aug 2016	Depart Time	1120

Station	Date	Parameter	Value
I23	04 Aug 2016	Air Temp (C)	21
I23	04 Aug 2016	Weather	Haze
I23	04 Aug 2016	Visibility (mi)	12
I23	04 Aug 2016	Wind Speed (kts)	4
I23	04 Aug 2016	Wind Dir	SE
I23	04 Aug 2016	Water Color	Green
I23	04 Aug 2016	Wave Ht Low (ft)	4
I23	04 Aug 2016	Wave Period (sec)	16
I23	04 Aug 2016	Sea State	Light chop
I23	04 Aug 2016	High Tide (ft)	4.59
I23	04 Aug 2016	High Tide Time	1113
I23	04 Aug 2016	Low Tide (ft)	-0.5
I23	04 Aug 2016	Low Tide Time	500
I23	04 Aug 2016	Comments	
I28	03 Aug 2016	Depth (m)	55
I28	03 Aug 2016	Arrive Time	849
I28	03 Aug 2016	Depart Time	859
I28	03 Aug 2016	Air Temp (C)	21
I28	03 Aug 2016	Weather	Fog
I28	03 Aug 2016	Visibility (mi)	1
I28	03 Aug 2016	Wind Speed (kts)	0
I28	03 Aug 2016	Wind Dir	
I28	03 Aug 2016	Water Color	Green
I28	03 Aug 2016	Wave Ht Low (ft)	3
I28	03 Aug 2016	Wave Period (sec)	9
I28	03 Aug 2016	Sea State	Calm
I28	03 Aug 2016	High Tide (ft)	4.56
I28	03 Aug 2016	High Tide Time	1038
I28	03 Aug 2016	Low Tide (ft)	-0.77
I28	03 Aug 2016	Low Tide Time	425
I28	03 Aug 2016	Comments	
I29	03 Aug 2016	Depth (m)	38
I29	03 Aug 2016	Arrive Time	912
I29	03 Aug 2016	Depart Time	917
I29	03 Aug 2016	Air Temp (C)	21
I29	03 Aug 2016	Weather	Fog
I29	03 Aug 2016	Visibility (mi)	1
I29	03 Aug 2016	Wind Speed (kts)	0
I29	03 Aug 2016	Wind Dir	
I29	03 Aug 2016	Water Color	Green
I29	03 Aug 2016	Wave Ht Low (ft)	3
I29	03 Aug 2016	Wave Period (sec)	9
I29	03 Aug 2016	Sea State	Calm
I29	03 Aug 2016	High Tide (ft)	4.56
I29	03 Aug 2016	High Tide Time	1038
I29	03 Aug 2016	Low Tide (ft)	-0.77
I29	03 Aug 2016	Low Tide Time	425
I29	03 Aug 2016	Comments	
I30	03 Aug 2016	Depth (m)	29
I30	03 Aug 2016	Arrive Time	925
I30	03 Aug 2016	Depart Time	930
I30	03 Aug 2016	Air Temp (C)	21

Station	Date	Parameter	Value
I30	03 Aug 2016	Weather	Overcast
I30	03 Aug 2016	Visibility (mi)	4
I30	03 Aug 2016	Wind Speed (kts)	0
I30	03 Aug 2016	Wind Dir	
I30	03 Aug 2016	Water Color	Green
I30	03 Aug 2016	Wave Ht Low (ft)	3
I30	03 Aug 2016	Wave Period (sec)	9
I30	03 Aug 2016	Sea State	Calm
I30	03 Aug 2016	High Tide (ft)	4.56
I30	03 Aug 2016	High Tide Time	1038
I30	03 Aug 2016	Low Tide (ft)	-0.77
I30	03 Aug 2016	Low Tide Time	425
I30	03 Aug 2016	Comments	Boats
I31	03 Aug 2016	Depth (m)	20
I31	03 Aug 2016	Arrive Time	938
I31	03 Aug 2016	Depart Time	941
I31	03 Aug 2016	Air Temp (C)	21
I31	03 Aug 2016	Weather	Overcast
I31	03 Aug 2016	Visibility (mi)	5
I31	03 Aug 2016	Wind Speed (kts)	0
I31	03 Aug 2016	Wind Dir	
I31	03 Aug 2016	Water Color	Green
I31	03 Aug 2016	Wave Ht Low (ft)	3
I31	03 Aug 2016	Wave Period (sec)	9
I31	03 Aug 2016	Sea State	Calm
I31	03 Aug 2016	High Tide (ft)	4.56
I31	03 Aug 2016	High Tide Time	1038
I31	03 Aug 2016	Low Tide (ft)	-0.77
I31	03 Aug 2016	Low Tide Time	425
I31	03 Aug 2016	Comments	
I33	03 Aug 2016	Depth (m)	31
I33	03 Aug 2016	Arrive Time	830
I33	03 Aug 2016	Depart Time	836
I33	03 Aug 2016	Air Temp (C)	21
I33	03 Aug 2016	Weather	Fog
I33	03 Aug 2016	Visibility (mi)	1
I33	03 Aug 2016	Wind Speed (kts)	3
I33	03 Aug 2016	Wind Dir	SW
I33	03 Aug 2016	Water Color	Green
I33	03 Aug 2016	Wave Ht Low (ft)	3
I33	03 Aug 2016	Wave Period (sec)	9
I33	03 Aug 2016	Sea State	Calm
I33	03 Aug 2016	High Tide (ft)	4.56
I33	03 Aug 2016	High Tide Time	1038
I33	03 Aug 2016	Low Tide (ft)	-0.77
I33	03 Aug 2016	Low Tide Time	425
I33	03 Aug 2016	Comments	
I34	03 Aug 2016	Depth (m)	20
I34	03 Aug 2016	Arrive Time	814
I34	03 Aug 2016	Depart Time	817
I34	03 Aug 2016	Air Temp (C)	21
I34	03 Aug 2016	Weather	Fog

Station	Date	Parameter	Value
I34	03 Aug 2016	Visibility (mi)	1
I34	03 Aug 2016	Wind Speed (kts)	1
I34	03 Aug 2016	Wind Dir	N
I34	03 Aug 2016	Water Color	Green
I34	03 Aug 2016	Wave Ht Low (ft)	3
I34	03 Aug 2016	Wave Period (sec)	9
I34	03 Aug 2016	Sea State	Calm
I34	03 Aug 2016	High Tide (ft)	4.56
I34	03 Aug 2016	High Tide Time	1038
I34	03 Aug 2016	Low Tide (ft)	-0.77
I34	03 Aug 2016	Low Tide Time	425
I34	03 Aug 2016	Comments	Boats
I35	03 Aug 2016	Depth (m)	20
I35	03 Aug 2016	Arrive Time	1029
I35	03 Aug 2016	Depart Time	1032
I35	03 Aug 2016	Air Temp (C)	22
I35	03 Aug 2016	Weather	Partly Cloudy
I35	03 Aug 2016	Visibility (mi)	11
I35	03 Aug 2016	Wind Speed (kts)	4
I35	03 Aug 2016	Wind Dir	NE
I35	03 Aug 2016	Water Color	Green
I35	03 Aug 2016	Wave Ht Low (ft)	3
I35	03 Aug 2016	Wave Period (sec)	9
I35	03 Aug 2016	Sea State	Calm
I35	03 Aug 2016	High Tide (ft)	4.56
I35	03 Aug 2016	High Tide Time	1038
I35	03 Aug 2016	Low Tide (ft)	-0.77
I35	03 Aug 2016	Low Tide Time	425
I35	03 Aug 2016	Comments	Boats
I36	03 Aug 2016	Depth (m)	12
I36	03 Aug 2016	Arrive Time	1012
I36	03 Aug 2016	Depart Time	1016
I36	03 Aug 2016	Air Temp (C)	21
I36	03 Aug 2016	Weather	Partly Cloudy
I36	03 Aug 2016	Visibility (mi)	9
I36	03 Aug 2016	Wind Speed (kts)	4
I36	03 Aug 2016	Wind Dir	NW
I36	03 Aug 2016	Water Color	Green
I36	03 Aug 2016	Wave Ht Low (ft)	3
I36	03 Aug 2016	Wave Period (sec)	9
I36	03 Aug 2016	Sea State	Calm
I36	03 Aug 2016	High Tide (ft)	4.56
I36	03 Aug 2016	High Tide Time	1038
I36	03 Aug 2016	Low Tide (ft)	-0.77
I36	03 Aug 2016	Low Tide Time	425
I36	03 Aug 2016	Comments	Seagrass
I37	03 Aug 2016	Depth (m)	13
I37	03 Aug 2016	Arrive Time	749
I37	03 Aug 2016	Depart Time	806
I37	03 Aug 2016	Air Temp (C)	21
I37	03 Aug 2016	Weather	Fog
I37	03 Aug 2016	Visibility (mi)	1

Station	Date	Parameter	Value
I37	03 Aug 2016	Wind Speed (kts)	3
I37	03 Aug 2016	Wind Dir	NW
I37	03 Aug 2016	Water Color	Green
I37	03 Aug 2016	Wave Ht Low (ft)	3
I37	03 Aug 2016	Wave Period (sec)	9
I37	03 Aug 2016	Sea State	Calm
I37	03 Aug 2016	High Tide (ft)	4.56
I37	03 Aug 2016	High Tide Time	1038
I37	03 Aug 2016	Low Tide (ft)	-0.77
I37	03 Aug 2016	Low Tide Time	425
I37	03 Aug 2016	Comments	
I38	03 Aug 2016	Depth (m)	13
I38	03 Aug 2016	Arrive Time	1043
I38	03 Aug 2016	Depart Time	1100
I38	03 Aug 2016	Air Temp (C)	22
I38	03 Aug 2016	Weather	Partly Cloudy
I38	03 Aug 2016	Visibility (mi)	11
I38	03 Aug 2016	Wind Speed (kts)	2
I38	03 Aug 2016	Wind Dir	NW
I38	03 Aug 2016	Water Color	Green
I38	03 Aug 2016	Wave Ht Low (ft)	3
I38	03 Aug 2016	Wave Period (sec)	9
I38	03 Aug 2016	Sea State	Calm
I38	03 Aug 2016	High Tide (ft)	4.56
I38	03 Aug 2016	High Tide Time	1038
I38	03 Aug 2016	Low Tide (ft)	-0.77
I38	03 Aug 2016	Low Tide Time	425
I38	03 Aug 2016	Comments	none

Table 4.7

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I1	02 Aug 2016	1	22.74	82.66	8.9	33.57	8.3	22.9	0.79
I1	02 Aug 2016	2	22.73	83.20	8.9	33.57	8.3	22.9	0.89
I1	02 Aug 2016	3	22.72	83.22	8.8	33.57	8.3	22.9	1.05
I1	02 Aug 2016	4	22.68	83.20	8.6	33.57	8.3	22.9	1.23
I1	02 Aug 2016	5	22.62	83.27	8.5	33.55	8.3	22.9	1.45
I1	02 Aug 2016	6	21.81	83.34	8.4	33.48	8.3	23.1	1.73
I1	02 Aug 2016	7	21.00	83.64	8.3	33.46	8.3	23.3	1.94
I1	02 Aug 2016	8	20.15	83.54	8.4	33.42	8.3	23.5	2.18
I1	02 Aug 2016	9	19.80	83.26	8.5	33.42	8.3	23.6	2.18
I1	02 Aug 2016	10	19.41	82.99	8.5	33.38	8.3	23.7	2.30
I1	02 Aug 2016	11	19.14	82.75	8.4	33.40	8.2	23.8	2.38
I1	02 Aug 2016	12	18.75	82.81	8.4	33.33	8.2	23.8	2.45
I1	02 Aug 2016	13	18.15	82.71	8.3	33.35	8.2	24.0	2.53
I1	02 Aug 2016	14	17.60	83.13	8.2	33.34	8.2	24.1	2.64
I1	02 Aug 2016	15	17.27	83.49	8.1	33.33	8.2	24.2	2.48
I1	02 Aug 2016	16	16.92	83.50	7.7	33.34	8.2	24.3	2.16
I1	02 Aug 2016	17	16.74	83.45	7.1	33.31	8.2	24.3	1.95
I1	02 Aug 2016	18	15.25	84.37	7.0	33.28	8.2	24.6	1.88
I1	02 Aug 2016	19	14.60	85.42	7.0	33.31	8.2	24.8	1.82
I1	02 Aug 2016	20	14.12	85.85	7.1	33.30	8.1	24.8	1.86
I1	02 Aug 2016	21	13.98	86.22	7.2	33.31	8.1	24.9	1.87
I1	02 Aug 2016	22	13.98	86.13	7.2	33.32	8.1	24.9	1.91
I1	02 Aug 2016	23	14.01	86.19	7.2	33.32	8.1	24.9	1.80
I1	02 Aug 2016	24	13.96	86.26	7.1	33.33	8.1	24.9	1.79
I1	02 Aug 2016	25	13.97	86.28	7.1	33.33	8.1	24.9	1.69
I1	02 Aug 2016	26	13.91	86.30	7.1	33.34	8.1	24.9	1.72
I1	02 Aug 2016	27	13.91	86.29	7.0	33.34	8.1	24.9	1.71
I1	02 Aug 2016	28	13.86	86.40	7.0	33.35	8.1	24.9	1.72
I1	02 Aug 2016	29	13.81	86.43	6.9	33.35	8.1	25.0	1.62
I1	02 Aug 2016	30	13.72	86.42	6.7	33.35	8.1	25.0	1.52
I1	02 Aug 2016	31	13.57	86.60	6.6	33.35	8.1	25.0	1.58
I1	02 Aug 2016	32	13.44	86.58	6.5	33.36	8.1	25.0	1.50
I1	02 Aug 2016	33	13.26	86.94	6.4	33.37	8.0	25.1	1.41
I1	02 Aug 2016	34	13.15	86.97	6.3	33.37	8.0	25.1	1.26
I1	02 Aug 2016	35	13.02	87.14	6.3	33.37	8.0	25.1	1.17
I1	02 Aug 2016	36	12.94	87.24	6.2	33.38	8.0	25.1	1.02
I1	02 Aug 2016	37	12.90	87.32	6.1	33.37	8.0	25.2	0.91
I1	02 Aug 2016	38	12.67	87.51	6.0	33.38	8.0	25.2	0.89
I1	02 Aug 2016	39	12.60	87.64	6.0	33.39	8.0	25.2	0.86
I1	02 Aug 2016	40	12.57	87.47	6.0	33.39	8.0	25.2	0.79
I1	02 Aug 2016	41	12.49	87.71	6.0	33.39	8.0	25.2	0.83
I1	02 Aug 2016	42	12.44	87.61	5.9	33.40	8.0	25.3	0.77
I1	02 Aug 2016	43	12.40	87.66	5.9	33.40	8.0	25.3	0.74
I1	02 Aug 2016	44	12.38	87.70	5.9	33.40	8.0	25.3	0.73
I1	02 Aug 2016	45	12.35	87.83	5.9	33.40	8.0	25.3	0.73
I1	02 Aug 2016	46	12.33	87.92	5.8	33.41	8.0	25.3	0.71
I1	02 Aug 2016	47	12.29	87.82	5.8	33.41	8.0	25.3	0.70
I1	02 Aug 2016	48	12.27	87.81	5.8	33.41	8.0	25.3	0.65
I1	02 Aug 2016	49	12.22	87.89	5.7	33.41	8.0	25.3	0.61
I1	02 Aug 2016	50	12.20	87.85	5.7	33.41	8.0	25.3	0.60
I1	02 Aug 2016	51	12.14	87.97	5.7	33.42	8.0	25.3	0.57

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I1	02 Aug 2016	52	12.13	88.06	5.7	33.42	8.0	25.3	0.56
I1	02 Aug 2016	53	12.13	87.97	5.6	33.42	7.9	25.3	0.56
I1	02 Aug 2016	54	12.12	87.76	5.6	33.42	7.9	25.3	0.53
I1	02 Aug 2016	55	12.08	87.65	5.5	33.43	7.9	25.4	0.54
I1	02 Aug 2016	56	12.06	87.90	5.5	33.43	7.9	25.4	0.51
I1	02 Aug 2016	57	11.99	87.80	5.4	33.43	7.9	25.4	0.50
I1	02 Aug 2016	58	11.95	87.63	5.4	33.44	7.9	25.4	0.53
I1	02 Aug 2016	59	11.91	87.37	5.4	33.44	7.9	25.4	0.54
I1	02 Aug 2016	60	11.89	87.25	5.4	33.44	7.9	25.4	0.52
I2	02 Aug 2016	1	22.30	81.30	8.9	33.56	8.3	23.0	1.05
I2	02 Aug 2016	2	22.30	81.32	8.9	33.56	8.3	23.0	1.10
I2	02 Aug 2016	3	22.21	81.31	8.8	33.56	8.3	23.1	1.13
I2	02 Aug 2016	4	22.14	81.43	8.8	33.55	8.3	23.1	1.21
I2	02 Aug 2016	5	22.01	81.92	8.7	33.55	8.3	23.1	1.30
I2	02 Aug 2016	6	21.91	82.29	8.7	33.54	8.3	23.1	1.32
I2	02 Aug 2016	7	21.76	82.78	8.8	33.53	8.3	23.2	1.37
I2	02 Aug 2016	8	21.64	82.95	8.8	33.52	8.3	23.2	1.39
I2	02 Aug 2016	9	21.62	83.07	8.7	33.52	8.3	23.2	1.46
I2	02 Aug 2016	10	21.61	83.11	8.6	33.52	8.3	23.2	1.62
I2	02 Aug 2016	11	21.58	83.12	8.5	33.51	8.3	23.2	1.76
I2	02 Aug 2016	12	21.42	83.18	8.2	33.50	8.3	23.2	1.96
I2	02 Aug 2016	13	21.03	82.98	8.0	33.47	8.3	23.3	2.37
I2	02 Aug 2016	14	20.08	83.01	7.6	33.42	8.3	23.5	2.70
I2	02 Aug 2016	15	19.11	83.52	7.3	33.35	8.3	23.7	2.43
I2	02 Aug 2016	16	17.20	83.55	7.0	33.33	8.2	24.2	2.25
I2	02 Aug 2016	17	16.20	84.23	6.9	33.30	8.2	24.4	2.06
I2	02 Aug 2016	18	14.90	85.30	7.1	33.31	8.2	24.7	2.02
I2	02 Aug 2016	19	14.52	85.56	7.0	33.30	8.1	24.8	2.04
I2	02 Aug 2016	20	14.34	85.80	6.9	33.30	8.1	24.8	2.09
I2	02 Aug 2016	21	13.91	85.48	7.0	33.30	8.1	24.9	2.05
I2	02 Aug 2016	22	13.87	85.37	7.0	33.31	8.1	24.9	1.97
I2	02 Aug 2016	23	13.86	85.22	7.0	33.31	8.1	24.9	1.98
I2	02 Aug 2016	24	13.83	85.44	7.0	33.32	8.1	24.9	1.98
I2	02 Aug 2016	25	13.82	85.52	6.9	33.33	8.1	24.9	2.02
I2	02 Aug 2016	26	13.81	85.59	6.9	33.33	8.1	24.9	1.94
I2	02 Aug 2016	27	13.81	85.62	6.9	33.34	8.1	24.9	1.93
I2	02 Aug 2016	28	13.80	85.56	6.9	33.34	8.1	24.9	1.92
I2	02 Aug 2016	29	13.80	85.65	6.9	33.35	8.1	25.0	1.92
I2	02 Aug 2016	30	13.78	85.77	6.9	33.35	8.1	25.0	1.90
I2	02 Aug 2016	31	13.79	85.66	6.9	33.35	8.1	25.0	1.85
I2	02 Aug 2016	32	13.75	85.73	6.9	33.36	8.1	25.0	1.82
I3	02 Aug 2016	1	22.68	82.58	8.8	33.58	8.3	22.9	0.68
I3	02 Aug 2016	2	22.66	82.53	8.8	33.58	8.3	23.0	0.75
I3	02 Aug 2016	3	22.64	82.41	8.9	33.58	8.3	23.0	0.89
I3	02 Aug 2016	4	22.63	82.40	8.9	33.58	8.3	23.0	1.05
I3	02 Aug 2016	5	22.61	82.37	8.9	33.58	8.3	23.0	1.14
I3	02 Aug 2016	6	22.57	82.28	8.8	33.57	8.3	23.0	1.22
I3	02 Aug 2016	7	22.38	82.32	8.6	33.56	8.3	23.0	1.39
I3	02 Aug 2016	8	21.70	82.50	8.4	33.51	8.3	23.2	1.53
I3	02 Aug 2016	9	21.23	82.78	8.2	33.48	8.3	23.3	1.72
I3	02 Aug 2016	10	20.21	83.34	8.5	33.42	8.3	23.5	1.80
I3	02 Aug 2016	11	19.74	83.29	8.5	33.39	8.3	23.6	2.05
I3	02 Aug 2016	12	19.34	83.46	8.4	33.37	8.3	23.7	2.32

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I3	02 Aug 2016	13	18.54	83.25	8.5	33.34	8.2	23.9	2.57
I3	02 Aug 2016	14	17.80	83.44	8.5	33.36	8.2	24.1	2.89
I3	02 Aug 2016	15	17.58	83.31	8.4	33.35	8.2	24.1	3.17
I3	02 Aug 2016	16	17.35	83.30	8.3	33.34	8.2	24.2	3.44
I3	02 Aug 2016	17	17.00	83.05	7.9	33.35	8.2	24.2	3.37
I3	02 Aug 2016	18	16.82	82.96	7.5	33.31	8.2	24.3	3.44
I3	02 Aug 2016	19	15.78	82.78	7.6	33.30	8.2	24.5	3.44
I3	02 Aug 2016	20	15.24	82.98	7.5	33.35	8.2	24.6	3.47
I3	02 Aug 2016	21	15.21	83.00	7.5	33.28	8.2	24.6	3.47
I3	02 Aug 2016	22	14.75	82.90	7.5	33.33	8.1	24.7	3.47
I3	02 Aug 2016	23	14.89	82.92	7.5	33.32	8.1	24.7	3.48
I3	02 Aug 2016	24	14.67	82.92	7.5	33.33	8.1	24.8	3.36
I3	02 Aug 2016	25	14.69	82.78	7.5	33.34	8.1	24.8	3.47
I3	02 Aug 2016	26	14.66	82.86	7.5	33.34	8.1	24.8	3.45
I3	02 Aug 2016	27	14.66	82.88	7.5	33.35	8.1	24.8	3.44
I4	02 Aug 2016	1	22.69	80.46	8.5	33.55	8.3	22.9	0.85
I4	02 Aug 2016	2	22.67	80.48	8.6	33.55	8.3	22.9	1.08
I4	02 Aug 2016	3	22.59	80.26	8.7	33.54	8.3	22.9	1.28
I4	02 Aug 2016	4	22.47	80.34	8.9	33.55	8.3	23.0	1.34
I4	02 Aug 2016	5	22.43	80.71	8.9	33.55	8.3	23.0	1.45
I4	02 Aug 2016	6	22.24	81.40	8.7	33.54	8.3	23.0	1.52
I4	02 Aug 2016	7	21.61	81.45	8.4	33.49	8.3	23.2	1.57
I4	02 Aug 2016	8	20.81	82.47	8.3	33.46	8.3	23.4	1.66
I4	02 Aug 2016	9	19.58	83.24	8.7	33.40	8.3	23.7	1.73
I4	02 Aug 2016	10	19.16	83.15	8.7	33.41	8.3	23.8	2.05
I4	02 Aug 2016	11	18.98	82.97	8.6	33.39	8.2	23.8	2.36
I4	02 Aug 2016	12	18.22	82.53	8.4	33.38	8.2	24.0	2.88
I4	02 Aug 2016	13	17.95	82.62	8.1	33.33	8.2	24.0	3.05
I4	02 Aug 2016	14	17.19	82.19	7.6	33.35	8.2	24.2	3.33
I4	02 Aug 2016	15	17.11	81.58	7.2	33.34	8.2	24.2	3.31
I4	02 Aug 2016	16	16.34	80.05	7.4	33.35	8.2	24.4	3.39
I4	02 Aug 2016	17	16.17	79.14	7.4	33.36	8.2	24.4	3.34
I4	02 Aug 2016	18	16.13	78.05	7.4	33.35	8.1	24.5	3.37
I5	02 Aug 2016	1	22.19	79.50	8.5	33.53	8.3	23.1	0.99
I5	02 Aug 2016	2	22.11	79.34	8.6	33.53	8.3	23.1	1.31
I5	02 Aug 2016	3	21.90	79.24	8.7	33.52	8.3	23.1	1.73
I5	02 Aug 2016	4	21.66	79.35	8.6	33.52	8.3	23.2	2.01
I5	02 Aug 2016	5	21.41	78.18	8.5	33.51	8.3	23.2	2.25
I5	02 Aug 2016	6	21.29	77.98	8.6	33.51	8.3	23.3	2.40
I5	02 Aug 2016	7	21.11	78.74	8.5	33.50	8.3	23.3	2.65
I5	02 Aug 2016	8	20.44	79.27	8.6	33.45	8.3	23.5	2.95
I5	02 Aug 2016	9	20.17	78.77	7.9	33.47	8.3	23.5	3.73
I5	02 Aug 2016	10	19.09	78.53	7.1	33.42	8.3	23.8	4.30
I5	02 Aug 2016	11	17.93	77.21	7.3	33.39	8.2	24.1	4.45
I5	02 Aug 2016	12	17.19	74.00	7.3	33.39	8.2	24.2	4.34
I5	02 Aug 2016	13	17.09	72.58	7.2	33.37	8.2	24.2	4.46
I5	02 Aug 2016	14	16.81	68.30	7.3	33.39	8.1	24.3	4.46
I6	02 Aug 2016	1	23.09	81.53	8.7	33.57	8.3	22.8	0.75
I6	02 Aug 2016	2	23.06	81.68	8.7	33.57	8.3	22.8	0.82
I6	02 Aug 2016	3	22.94	81.80	8.9	33.57	8.3	22.9	0.93
I6	02 Aug 2016	4	22.72	81.80	8.9	33.56	8.3	22.9	1.10
I6	02 Aug 2016	5	22.49	82.06	9.0	33.56	8.3	23.0	1.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I6	02 Aug 2016	6	22.40	82.39	9.0	33.56	8.3	23.0	1.35
I6	02 Aug 2016	7	22.19	82.28	8.9	33.55	8.3	23.1	1.40
I6	02 Aug 2016	8	21.93	82.18	8.8	33.54	8.3	23.1	1.60
I6	02 Aug 2016	9	21.69	82.28	8.5	33.53	8.3	23.2	1.73
I6	02 Aug 2016	10	21.20	82.28	8.3	33.47	8.3	23.3	1.93
I6	02 Aug 2016	11	20.28	82.29	8.1	33.46	8.3	23.5	1.98
I6	02 Aug 2016	12	19.34	82.65	8.2	33.37	8.3	23.7	1.98
I6	02 Aug 2016	13	18.54	83.38	8.4	33.35	8.3	23.9	1.98
I6	02 Aug 2016	14	17.89	83.75	8.5	33.34	8.2	24.0	2.01
I6	02 Aug 2016	15	17.59	84.02	8.4	33.34	8.2	24.1	2.22
I6	02 Aug 2016	16	17.31	84.12	8.1	33.33	8.2	24.2	2.51
I6	02 Aug 2016	17	16.75	84.12	7.8	33.30	8.2	24.3	2.91
I6	02 Aug 2016	18	16.07	84.25	7.6	33.32	8.2	24.4	3.04
I6	02 Aug 2016	19	15.68	83.10	7.6	33.32	8.2	24.5	3.25
I6	02 Aug 2016	20	15.54	82.32	7.7	33.33	8.2	24.6	3.26
I6	02 Aug 2016	21	15.46	81.92	7.7	33.33	8.1	24.6	3.25
I6	02 Aug 2016	22	15.42	81.90	7.7	33.33	8.1	24.6	3.27
I6	02 Aug 2016	23	15.37	82.02	7.7	33.34	8.1	24.6	3.10
I6	02 Aug 2016	24	15.36	81.95	7.7	33.34	8.1	24.6	3.08
I6	02 Aug 2016	25	15.33	82.09	7.7	33.35	8.1	24.6	3.10
I6	02 Aug 2016	26	15.34	81.85	7.7	33.35	8.1	24.6	3.09
I7	02 Aug 2016	1	22.45	82.62	9.1	33.57	8.3	23.0	1.11
I7	02 Aug 2016	2	22.45	82.45	8.9	33.57	8.3	23.0	1.23
I7	02 Aug 2016	3	22.43	82.81	8.8	33.56	8.3	23.0	1.36
I7	02 Aug 2016	4	21.74	82.76	8.9	33.51	8.3	23.2	1.61
I7	02 Aug 2016	5	21.52	82.16	8.9	33.51	8.3	23.2	1.71
I7	02 Aug 2016	6	20.97	81.83	9.0	33.51	8.3	23.4	1.79
I7	02 Aug 2016	7	20.93	81.88	9.0	33.50	8.3	23.4	1.84
I7	02 Aug 2016	8	20.90	81.86	9.0	33.50	8.3	23.4	1.89
I7	02 Aug 2016	9	20.88	81.84	9.0	33.50	8.3	23.4	1.90
I7	02 Aug 2016	10	20.85	81.91	8.8	33.50	8.3	23.4	1.92
I7	02 Aug 2016	11	20.68	81.94	8.7	33.49	8.3	23.4	2.27
I7	02 Aug 2016	12	20.24	82.37	8.5	33.47	8.3	23.5	2.68
I7	02 Aug 2016	13	19.76	82.50	8.4	33.44	8.3	23.6	2.88
I7	02 Aug 2016	14	19.05	82.38	8.3	33.44	8.3	23.8	3.25
I7	02 Aug 2016	15	18.60	82.57	8.2	33.41	8.3	23.9	3.45
I7	02 Aug 2016	16	17.92	82.38	8.2	33.39	8.2	24.1	3.46
I7	02 Aug 2016	17	17.56	82.47	8.1	33.40	8.2	24.2	3.86
I7	02 Aug 2016	18	17.32	82.46	8.1	33.36	8.2	24.2	4.07
I7	02 Aug 2016	19	16.41	82.33	8.3	33.37	8.2	24.4	3.99
I7	02 Aug 2016	20	16.21	82.03	8.6	33.35	8.2	24.4	4.12
I7	02 Aug 2016	21	15.45	82.05	8.6	33.33	8.2	24.6	4.16
I7	02 Aug 2016	22	15.03	82.21	8.0	33.33	8.2	24.7	4.31
I7	02 Aug 2016	23	14.20	81.92	7.8	33.32	8.2	24.8	4.30
I7	02 Aug 2016	24	14.00	82.08	7.9	33.33	8.2	24.9	4.20
I7	02 Aug 2016	25	13.98	82.06	7.9	33.34	8.1	24.9	4.18
I7	02 Aug 2016	26	13.94	82.19	7.8	33.34	8.1	24.9	4.09
I7	02 Aug 2016	27	13.92	82.31	7.5	33.35	8.1	24.9	3.89
I7	02 Aug 2016	28	13.81	82.32	7.1	33.36	8.1	25.0	3.65
I7	02 Aug 2016	29	13.63	82.50	7.0	33.36	8.1	25.0	3.51
I7	02 Aug 2016	30	13.52	82.95	7.0	33.37	8.1	25.0	3.13
I7	02 Aug 2016	31	13.46	83.43	6.8	33.37	8.1	25.0	2.82
I7	02 Aug 2016	32	13.37	83.82	6.7	33.38	8.1	25.1	2.25
I7	02 Aug 2016	33	13.26	84.54	6.4	33.37	8.1	25.1	1.85

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I7	02 Aug 2016	34	13.12	85.13	6.4	33.36	8.0	25.1	1.81
I7	02 Aug 2016	35	12.98	86.12	6.4	33.37	8.0	25.1	1.59
I7	02 Aug 2016	36	12.98	86.47	6.3	33.36	8.0	25.1	1.38
I7	02 Aug 2016	37	12.89	86.91	6.3	33.37	8.0	25.1	1.18
I7	02 Aug 2016	38	12.82	87.28	6.2	33.37	8.0	25.2	1.00
I7	02 Aug 2016	39	12.74	87.51	6.1	33.37	8.0	25.2	0.97
I7	02 Aug 2016	40	12.71	87.52	6.2	33.38	8.0	25.2	1.00
I7	02 Aug 2016	41	12.71	87.54	6.2	33.38	8.0	25.2	0.97
I7	02 Aug 2016	42	12.69	87.55	6.1	33.38	8.0	25.2	0.92
I7	02 Aug 2016	43	12.69	87.58	6.1	33.39	8.0	25.2	0.93
I7	02 Aug 2016	44	12.65	87.58	6.1	33.39	8.0	25.2	0.91
I7	02 Aug 2016	45	12.66	87.56	6.1	33.39	8.0	25.2	0.90
I7	02 Aug 2016	46	12.64	87.53	6.0	33.39	8.0	25.2	0.86
I7	02 Aug 2016	47	12.61	87.50	5.7	33.40	8.0	25.2	0.80
I7	02 Aug 2016	48	12.48	87.34	5.5	33.39	8.0	25.3	0.79
I7	02 Aug 2016	49	12.27	86.79	5.7	33.42	8.0	25.3	0.81
I7	02 Aug 2016	50	12.34	86.58	5.6	33.41	8.0	25.3	0.76
I7	02 Aug 2016	51	12.25	86.59	5.6	33.42	7.9	25.3	0.77
I7	02 Aug 2016	52	12.25	86.56	5.7	33.42	7.9	25.3	0.78
I8	02 Aug 2016	1	23.08	80.21	8.9	33.58	8.3	22.8	0.84
I8	02 Aug 2016	2	23.07	80.27	8.8	33.58	8.3	22.8	1.21
I8	02 Aug 2016	3	22.92	80.22	8.8	33.56	8.3	22.9	1.63
I8	02 Aug 2016	4	22.21	80.37	8.8	33.54	8.3	23.1	2.03
I8	02 Aug 2016	5	21.44	80.48	8.7	33.49	8.3	23.2	2.21
I8	02 Aug 2016	6	20.66	81.78	8.6	33.47	8.3	23.4	2.32
I8	02 Aug 2016	7	20.16	81.82	8.6	33.45	8.3	23.5	2.42
I8	02 Aug 2016	8	19.76	82.39	8.4	33.42	8.3	23.6	2.83
I8	02 Aug 2016	9	19.34	82.57	8.1	33.41	8.3	23.7	3.02
I8	02 Aug 2016	10	18.89	82.77	8.2	33.37	8.2	23.8	3.21
I8	02 Aug 2016	11	17.75	82.85	8.4	33.37	8.2	24.1	3.17
I8	02 Aug 2016	12	17.51	83.04	8.5	33.38	8.2	24.2	3.15
I8	02 Aug 2016	13	17.47	83.12	8.2	33.38	8.2	24.2	3.27
I8	02 Aug 2016	14	17.28	83.15	7.9	33.37	8.2	24.2	3.62
I8	02 Aug 2016	15	16.36	83.25	7.7	33.32	8.2	24.4	3.64
I8	02 Aug 2016	16	15.59	83.19	7.3	33.33	8.2	24.6	3.76
I8	02 Aug 2016	17	15.02	83.09	7.2	33.29	8.2	24.6	3.59
I8	02 Aug 2016	18	14.45	83.35	7.4	33.32	8.1	24.8	3.61
I8	02 Aug 2016	19	14.42	83.53	7.4	33.32	8.1	24.8	3.53
I8	02 Aug 2016	20	14.37	83.62	7.4	33.33	8.1	24.8	3.38
I8	02 Aug 2016	21	14.33	83.70	7.3	33.33	8.1	24.8	3.53
I8	02 Aug 2016	22	14.28	83.87	7.3	33.34	8.1	24.8	3.27
I8	02 Aug 2016	23	14.28	84.00	7.3	33.34	8.1	24.8	3.19
I8	02 Aug 2016	24	14.24	84.00	7.3	33.34	8.1	24.9	3.11
I8	02 Aug 2016	25	14.21	84.15	7.2	33.35	8.1	24.9	3.05
I8	02 Aug 2016	26	14.18	84.40	7.2	33.35	8.1	24.9	2.99
I8	02 Aug 2016	27	14.16	84.49	7.3	33.35	8.1	24.9	2.92
I8	02 Aug 2016	28	14.15	84.57	7.2	33.36	8.1	24.9	2.80
I8	02 Aug 2016	29	14.14	84.69	7.2	33.36	8.1	24.9	2.64
I8	02 Aug 2016	30	14.14	84.62	7.2	33.37	8.1	24.9	2.44
I8	02 Aug 2016	31	14.10	84.93	7.0	33.37	8.1	24.9	2.23
I8	02 Aug 2016	32	14.01	85.21	6.9	33.36	8.1	24.9	2.08
I8	02 Aug 2016	33	13.88	85.32	7.0	33.37	8.1	24.9	2.05
I8	02 Aug 2016	34	13.83	85.69	6.9	33.37	8.0	25.0	1.94
I8	02 Aug 2016	35	13.79	85.76	6.9	33.37	8.0	25.0	1.97

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I8	02 Aug 2016	36	13.78	85.85	7.0	33.37	8.0	25.0	2.04
I9	02 Aug 2016	1	22.87	81.07	8.9	33.58	8.3	22.9	0.66
I9	02 Aug 2016	2	22.86	81.27	8.9	33.58	8.3	22.9	0.78
I9	02 Aug 2016	3	22.77	81.20	9.0	33.57	8.3	22.9	0.99
I9	02 Aug 2016	4	22.59	80.98	9.0	33.56	8.3	23.0	1.30
I9	02 Aug 2016	5	22.31	80.92	9.1	33.55	8.3	23.0	1.53
I9	02 Aug 2016	6	22.11	80.93	9.1	33.55	8.3	23.1	1.63
I9	02 Aug 2016	7	22.09	81.07	9.0	33.55	8.3	23.1	1.92
I9	02 Aug 2016	8	21.97	81.40	8.9	33.54	8.3	23.1	2.25
I9	02 Aug 2016	9	21.47	81.16	8.8	33.51	8.3	23.2	2.39
I9	02 Aug 2016	10	20.50	81.77	8.8	33.49	8.3	23.5	2.48
I9	02 Aug 2016	11	19.89	82.38	8.7	33.45	8.3	23.6	2.41
I9	02 Aug 2016	12	19.42	82.73	8.5	33.43	8.3	23.7	2.37
I9	02 Aug 2016	13	18.48	83.24	8.4	33.41	8.3	23.9	2.28
I9	02 Aug 2016	14	17.99	83.66	8.5	33.35	8.2	24.0	2.35
I9	02 Aug 2016	15	17.40	83.96	8.5	33.36	8.2	24.2	2.52
I9	02 Aug 2016	16	17.29	83.93	8.3	33.33	8.2	24.2	2.55
I9	02 Aug 2016	17	16.85	83.81	8.1	33.34	8.2	24.3	2.71
I9	02 Aug 2016	18	16.08	84.16	7.7	33.31	8.2	24.4	3.06
I9	02 Aug 2016	19	15.65	83.16	7.5	33.33	8.2	24.5	3.29
I9	02 Aug 2016	20	15.31	82.90	7.6	33.33	8.1	24.6	3.38
I9	02 Aug 2016	21	15.17	83.01	7.6	33.34	8.1	24.7	3.54
I9	02 Aug 2016	22	15.10	82.94	7.6	33.34	8.1	24.7	3.37
I9	02 Aug 2016	23	15.09	82.85	7.7	33.34	8.1	24.7	3.35
I9	02 Aug 2016	24	15.05	82.82	7.6	33.35	8.1	24.7	3.21
I9	02 Aug 2016	25	14.96	83.05	7.6	33.35	8.1	24.7	3.25
I9	02 Aug 2016	26	14.92	83.19	7.6	33.35	8.1	24.7	3.09
I9	02 Aug 2016	27	14.87	83.12	7.6	33.36	8.1	24.7	3.04
I9	02 Aug 2016	28	14.85	83.44	7.6	33.36	8.1	24.7	2.95
I9	02 Aug 2016	29	14.85	83.38	7.6	33.37	8.1	24.7	2.93
I10	02 Aug 2016	1	22.65	82.48	8.8	33.57	8.3	22.9	0.71
I10	02 Aug 2016	2	22.64	82.54	8.9	33.57	8.3	22.9	0.82
I10	02 Aug 2016	3	22.57	81.96	9.0	33.56	8.3	23.0	0.98
I10	02 Aug 2016	4	22.31	81.54	9.2	33.55	8.3	23.0	1.14
I10	02 Aug 2016	5	22.13	81.51	9.2	33.55	8.3	23.1	1.25
I10	02 Aug 2016	6	22.06	81.54	9.1	33.55	8.3	23.1	1.53
I10	02 Aug 2016	7	21.91	81.62	8.9	33.54	8.3	23.1	1.89
I10	02 Aug 2016	8	21.49	81.63	8.8	33.51	8.3	23.2	1.93
I10	02 Aug 2016	9	20.62	81.78	9.0	33.50	8.3	23.5	1.99
I10	02 Aug 2016	10	20.25	81.91	9.0	33.48	8.3	23.5	2.07
I10	02 Aug 2016	11	19.99	82.03	9.0	33.47	8.3	23.6	2.02
I10	02 Aug 2016	12	19.91	82.14	9.0	33.47	8.3	23.6	2.09
I10	02 Aug 2016	13	19.77	81.67	8.8	33.47	8.3	23.7	2.24
I10	02 Aug 2016	14	19.34	81.56	8.5	33.42	8.3	23.7	2.43
I10	02 Aug 2016	15	18.75	82.02	8.0	33.40	8.3	23.9	2.84
I10	02 Aug 2016	16	17.50	81.30	7.6	33.38	8.2	24.2	3.13
I10	02 Aug 2016	17	17.10	80.16	7.3	33.36	8.2	24.2	3.04
I10	02 Aug 2016	18	16.34	80.73	7.4	33.36	8.2	24.4	2.99
I10	02 Aug 2016	19	15.95	81.04	7.5	33.36	8.1	24.5	2.94
I11	02 Aug 2016	1	23.06	81.41	8.5	33.56	8.3	22.8	0.85
I11	02 Aug 2016	2	22.97	81.17	8.5	33.55	8.3	22.8	1.20
I11	02 Aug 2016	3	22.60	80.47	8.5	33.52	8.3	22.9	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I11	02 Aug 2016	4	21.86	78.66	8.4	33.52	8.3	23.1	1.70
I11	02 Aug 2016	5	21.56	77.94	8.1	33.49	8.3	23.2	1.92
I11	02 Aug 2016	6	21.18	77.95	7.8	33.47	8.3	23.3	2.18
I11	02 Aug 2016	7	20.07	77.59	7.9	33.42	8.3	23.5	2.43
I11	02 Aug 2016	8	19.28	77.36	7.9	33.42	8.2	23.7	2.59
I11	02 Aug 2016	9	18.68	78.53	7.7	33.41	8.2	23.9	2.79
I11	02 Aug 2016	10	18.02	78.28	7.5	33.38	8.2	24.0	2.85
I11	02 Aug 2016	11	17.50	78.29	7.4	33.37	8.2	24.1	2.63
I11	02 Aug 2016	12	17.19	78.78	7.3	33.37	8.2	24.2	2.33
I11	02 Aug 2016	13	16.98	79.20	7.2	33.38	8.2	24.3	2.26
I12	04 Aug 2016	1	23.00	78.18	8.2	33.56	8.3	22.8	1.44
I12	04 Aug 2016	2	22.96	78.03	8.3	33.55	8.3	22.8	1.68
I12	04 Aug 2016	3	22.53	77.86	8.5	33.54	8.3	23.0	2.09
I12	04 Aug 2016	4	22.27	78.71	8.6	33.53	8.3	23.0	2.47
I12	04 Aug 2016	5	21.86	79.23	8.7	33.51	8.3	23.1	2.69
I12	04 Aug 2016	6	21.57	79.58	8.6	33.51	8.3	23.2	2.94
I12	04 Aug 2016	7	21.08	79.68	8.4	33.48	8.3	23.3	2.97
I12	04 Aug 2016	8	20.24	80.09	8.6	33.43	8.3	23.5	2.99
I12	04 Aug 2016	9	19.68	80.72	8.6	33.41	8.3	23.6	2.71
I12	04 Aug 2016	10	19.51	80.97	8.5	33.40	8.3	23.7	2.50
I12	04 Aug 2016	11	19.07	81.54	8.5	33.37	8.2	23.8	2.44
I12	04 Aug 2016	12	18.62	82.05	8.5	33.35	8.2	23.9	2.43
I12	04 Aug 2016	13	18.23	82.40	8.5	33.35	8.2	24.0	2.50
I12	04 Aug 2016	14	18.00	82.43	8.5	33.34	8.2	24.0	2.53
I12	04 Aug 2016	15	17.65	82.66	8.4	33.35	8.2	24.1	2.54
I12	04 Aug 2016	16	17.45	82.49	8.2	33.34	8.2	24.1	2.88
I12	04 Aug 2016	17	17.20	82.64	7.7	33.34	8.2	24.2	3.10
I12	04 Aug 2016	18	16.86	82.02	7.4	33.35	8.2	24.3	3.18
I12	04 Aug 2016	19	16.71	80.54	7.5	33.37	8.2	24.3	3.10
I12	04 Aug 2016	20	16.58	80.46	7.7	33.36	8.2	24.4	2.98
I12	04 Aug 2016	21	16.16	81.44	7.6	33.34	8.2	24.4	2.84
I12	04 Aug 2016	22	15.97	82.08	7.5	33.35	8.2	24.5	2.78
I12	04 Aug 2016	23	15.81	82.19	7.4	33.35	8.1	24.5	2.74
I12	04 Aug 2016	24	15.77	82.10	7.4	33.35	8.1	24.5	2.70
I12	04 Aug 2016	25	15.70	81.98	7.4	33.36	8.1	24.6	2.68
I12	04 Aug 2016	26	15.69	81.86	7.4	33.36	8.1	24.6	2.63
I12	04 Aug 2016	27	15.63	81.66	7.4	33.36	8.1	24.6	2.66
I12	04 Aug 2016	28	15.61	81.59	7.4	33.37	8.1	24.6	2.61
I13	02 Aug 2016	1	22.99	80.60	9.0	33.55	8.3	22.8	1.00
I13	02 Aug 2016	2	22.97	81.02	8.9	33.56	8.3	22.9	1.02
I13	02 Aug 2016	3	22.82	81.53	8.5	33.57	8.3	22.9	1.22
I13	02 Aug 2016	4	21.49	82.10	8.5	33.55	8.3	23.3	1.57
I13	02 Aug 2016	5	20.29	82.01	8.8	33.50	8.3	23.5	1.89
I13	02 Aug 2016	6	20.17	81.82	8.9	33.47	8.3	23.6	2.09
I13	02 Aug 2016	7	20.06	81.76	9.0	33.47	8.3	23.6	2.21
I13	02 Aug 2016	8	19.93	81.83	8.8	33.48	8.3	23.6	2.15
I13	02 Aug 2016	9	19.38	82.25	9.0	33.45	8.3	23.7	2.13
I13	02 Aug 2016	10	18.88	82.89	9.0	33.45	8.3	23.9	2.26
I13	02 Aug 2016	11	18.44	83.17	9.0	33.44	8.3	24.0	2.29
I13	02 Aug 2016	12	18.18	83.31	9.0	33.43	8.3	24.0	2.28
I13	02 Aug 2016	13	17.81	83.63	8.9	33.43	8.2	24.1	2.33
I13	02 Aug 2016	14	17.63	84.02	8.6	33.43	8.2	24.2	2.42
I13	02 Aug 2016	15	17.09	84.04	8.4	33.42	8.2	24.3	2.55

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma\text{-t}$)	Chlor ($\mu\text{g/L}$)
I13	02 Aug 2016	16	16.72	84.31	8.3	33.41	8.2	24.4	2.54
I13	02 Aug 2016	17	16.13	84.40	8.2	33.40	8.2	24.5	2.76
I13	02 Aug 2016	18	16.20	84.43	8.0	33.37	8.2	24.5	2.81
I13	02 Aug 2016	19	15.55	84.50	7.9	33.39	8.2	24.6	3.21
I13	02 Aug 2016	20	15.70	84.26	7.3	33.36	8.2	24.6	3.41
I13	02 Aug 2016	21	14.87	84.01	7.1	33.36	8.1	24.7	3.31
I13	02 Aug 2016	22	14.58	83.98	7.0	33.34	8.1	24.8	2.97
I13	02 Aug 2016	23	14.12	84.45	7.0	33.34	8.1	24.9	2.64
I13	02 Aug 2016	24	14.01	84.71	6.8	33.34	8.1	24.9	2.38
I13	02 Aug 2016	25	13.87	85.07	6.8	33.34	8.1	24.9	2.27
I13	02 Aug 2016	26	13.76	85.49	6.8	33.35	8.1	25.0	2.21
I13	02 Aug 2016	27	13.73	85.49	6.8	33.35	8.1	25.0	2.13
I13	02 Aug 2016	28	13.69	85.50	6.8	33.35	8.0	25.0	2.00
I13	02 Aug 2016	29	13.65	85.79	6.8	33.36	8.0	25.0	1.95
I13	02 Aug 2016	30	13.62	85.88	6.8	33.36	8.0	25.0	1.91
I13	02 Aug 2016	31	13.60	85.91	6.7	33.36	8.0	25.0	1.88
I13	02 Aug 2016	32	13.58	86.04	6.7	33.37	8.0	25.0	1.84
I13	02 Aug 2016	33	13.58	86.00	6.8	33.37	8.0	25.0	1.85
I13	02 Aug 2016	34	13.58	86.07	6.8	33.37	8.0	25.0	1.79
I13	02 Aug 2016	35	13.56	85.97	6.7	33.37	8.0	25.0	1.72
I13	02 Aug 2016	36	13.56	85.96	6.7	33.37	8.0	25.0	1.72
I13	02 Aug 2016	37	13.56	86.07	6.7	33.38	8.0	25.0	1.77
I13	02 Aug 2016	38	13.55	86.08	6.8	33.38	8.0	25.0	1.77
I14	04 Aug 2016	1	22.74	78.50	8.4	33.55	8.3	22.9	1.13
I14	04 Aug 2016	2	22.69	78.46	8.4	33.55	8.3	22.9	1.39
I14	04 Aug 2016	3	22.70	78.28	8.5	33.56	8.3	22.9	1.78
I14	04 Aug 2016	4	22.59	78.46	8.6	33.52	8.3	22.9	2.17
I14	04 Aug 2016	5	22.02	78.92	8.6	33.54	8.3	23.1	2.41
I14	04 Aug 2016	6	21.92	79.07	8.6	33.52	8.3	23.1	2.44
I14	04 Aug 2016	7	21.47	79.41	8.5	33.49	8.3	23.2	2.72
I14	04 Aug 2016	8	20.79	80.45	8.4	33.50	8.3	23.4	2.81
I14	04 Aug 2016	9	20.54	80.51	8.4	33.42	8.3	23.4	2.79
I14	04 Aug 2016	10	19.35	81.12	8.5	33.42	8.3	23.7	2.69
I14	04 Aug 2016	11	19.28	81.41	8.5	33.38	8.3	23.7	2.62
I14	04 Aug 2016	12	18.51	81.83	8.6	33.36	8.2	23.9	2.54
I14	04 Aug 2016	13	18.31	82.05	8.4	33.35	8.2	23.9	2.62
I14	04 Aug 2016	14	17.90	82.33	8.3	33.35	8.2	24.0	2.70
I14	04 Aug 2016	15	17.52	82.28	8.3	33.32	8.2	24.1	2.69
I14	04 Aug 2016	16	17.06	82.07	8.3	33.35	8.2	24.2	2.65
I14	04 Aug 2016	17	16.99	82.26	8.1	33.34	8.2	24.2	2.79
I14	04 Aug 2016	18	16.91	82.37	7.8	33.34	8.2	24.3	2.86
I14	04 Aug 2016	19	16.65	82.27	7.7	33.34	8.2	24.3	2.72
I14	04 Aug 2016	20	16.37	82.13	7.7	33.35	8.2	24.4	2.70
I14	04 Aug 2016	21	16.16	82.23	7.6	33.34	8.2	24.4	2.59
I14	04 Aug 2016	22	16.07	82.25	7.4	33.35	8.2	24.5	2.37
I14	04 Aug 2016	23	15.99	82.41	7.3	33.34	8.1	24.5	2.22
I14	04 Aug 2016	24	15.77	82.49	7.3	33.35	8.1	24.5	2.08
I14	04 Aug 2016	25	15.63	82.97	7.3	33.36	8.1	24.6	1.99
I14	04 Aug 2016	26	15.57	83.19	7.3	33.35	8.1	24.6	2.01
I14	04 Aug 2016	27	15.50	83.18	7.3	33.36	8.1	24.6	2.01
I14	04 Aug 2016	28	15.45	83.31	7.4	33.36	8.1	24.6	2.02
I15	04 Aug 2016	1	22.99	81.07	8.4	33.58	8.3	22.9	1.00
I15	04 Aug 2016	2	22.89	80.92	8.4	33.57	8.3	22.9	1.36

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I15	04 Aug 2016	3	22.70	80.12	8.5	33.56	8.3	22.9	1.85
I15	04 Aug 2016	4	22.49	80.10	8.6	33.54	8.3	23.0	2.22
I15	04 Aug 2016	5	22.21	79.95	8.8	33.53	8.3	23.0	2.36
I15	04 Aug 2016	6	21.87	79.71	8.7	33.51	8.3	23.1	2.53
I15	04 Aug 2016	7	21.43	79.61	8.4	33.51	8.3	23.2	2.83
I15	04 Aug 2016	8	21.13	80.23	8.3	33.48	8.3	23.3	2.95
I15	04 Aug 2016	9	20.17	80.61	8.5	33.40	8.3	23.5	3.03
I15	04 Aug 2016	10	19.35	80.91	8.6	33.40	8.3	23.7	2.95
I15	04 Aug 2016	11	19.29	81.06	8.6	33.39	8.3	23.7	2.88
I15	04 Aug 2016	12	19.01	81.34	8.5	33.36	8.2	23.8	2.96
I15	04 Aug 2016	13	18.71	81.82	8.3	33.37	8.2	23.8	3.18
I15	04 Aug 2016	14	18.15	82.12	8.2	33.33	8.2	24.0	3.17
I15	04 Aug 2016	15	17.55	80.98	8.1	33.34	8.2	24.1	3.07
I15	04 Aug 2016	16	16.83	81.14	8.2	33.33	8.2	24.3	2.86
I15	04 Aug 2016	17	16.64	81.58	8.1	33.34	8.2	24.3	2.82
I15	04 Aug 2016	18	16.44	82.16	7.8	33.31	8.2	24.4	2.73
I15	04 Aug 2016	19	16.29	82.68	7.4	33.30	8.2	24.4	2.70
I15	04 Aug 2016	20	15.71	82.92	7.6	33.22	8.2	24.4	2.74
I15	04 Aug 2016	21	15.71	82.99	7.7	33.24	8.1	24.5	2.79
I15	04 Aug 2016	22	15.72	82.82	7.8	33.30	8.1	24.5	2.82
I15	04 Aug 2016	23	15.77	82.67	7.7	33.33	8.1	24.5	2.81
I15	04 Aug 2016	24	15.78	82.70	7.5	33.35	8.1	24.5	2.54
I15	04 Aug 2016	25	15.75	82.74	7.4	33.35	8.1	24.5	2.41
I15	04 Aug 2016	26	15.62	82.75	7.3	33.36	8.1	24.6	2.31
I15	04 Aug 2016	27	15.56	82.71	7.3	33.36	8.1	24.6	2.21
I15	04 Aug 2016	28	15.51	82.72	7.3	33.37	8.1	24.6	2.13
I15	04 Aug 2016	29	15.45	82.71	7.3	33.37	8.1	24.6	2.12
I15	04 Aug 2016	30	15.42	82.80	7.3	33.37	8.1	24.6	2.06
I15	04 Aug 2016	31	15.38	82.88	7.3	33.37	8.1	24.6	2.11
I16	04 Aug 2016	1	22.97	76.66	8.2	33.55	8.3	22.8	1.37
I16	04 Aug 2016	2	22.92	76.58	8.3	33.55	8.3	22.9	1.57
I16	04 Aug 2016	3	22.65	76.61	8.4	33.54	8.3	22.9	1.73
I16	04 Aug 2016	4	22.28	78.17	8.5	33.53	8.3	23.0	2.08
I16	04 Aug 2016	5	22.21	79.29	8.7	33.52	8.3	23.0	2.44
I16	04 Aug 2016	6	21.58	79.39	8.8	33.51	8.3	23.2	2.64
I16	04 Aug 2016	7	21.27	79.65	8.5	33.50	8.3	23.3	2.88
I16	04 Aug 2016	8	20.79	80.01	8.3	33.45	8.3	23.4	2.84
I16	04 Aug 2016	9	19.68	80.40	8.5	33.41	8.3	23.6	2.71
I16	04 Aug 2016	10	19.27	80.92	8.6	33.38	8.3	23.7	2.59
I16	04 Aug 2016	11	18.85	81.45	8.6	33.38	8.2	23.8	2.53
I16	04 Aug 2016	12	18.69	81.77	8.6	33.37	8.2	23.9	2.46
I16	04 Aug 2016	13	18.51	81.90	8.5	33.37	8.2	23.9	2.45
I16	04 Aug 2016	14	18.36	82.00	8.4	33.36	8.2	23.9	2.49
I16	04 Aug 2016	15	18.13	82.27	8.3	33.35	8.2	24.0	2.53
I16	04 Aug 2016	16	17.52	82.35	8.4	33.33	8.2	24.1	2.48
I16	04 Aug 2016	17	17.17	82.40	8.3	33.35	8.2	24.2	2.61
I16	04 Aug 2016	18	17.11	82.43	7.9	33.34	8.2	24.2	2.78
I16	04 Aug 2016	19	16.88	82.42	7.7	33.33	8.2	24.3	2.85
I16	04 Aug 2016	20	16.53	82.06	7.8	33.35	8.2	24.4	2.81
I16	04 Aug 2016	21	16.34	82.00	7.7	33.34	8.2	24.4	2.69
I16	04 Aug 2016	22	16.16	82.23	7.5	33.35	8.2	24.4	2.53
I16	04 Aug 2016	23	16.01	82.35	7.4	33.34	8.2	24.5	2.40
I16	04 Aug 2016	24	15.78	82.33	7.4	33.35	8.1	24.5	2.34
I16	04 Aug 2016	25	15.76	82.32	7.4	33.35	8.1	24.5	2.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I16	04 Aug 2016	26	15.66	82.39	7.4	33.36	8.1	24.6	2.32
I16	04 Aug 2016	27	15.67	82.44	7.4	33.36	8.1	24.6	2.25
I16	04 Aug 2016	28	15.63	82.44	7.4	33.36	8.1	24.6	2.25
I17	04 Aug 2016	1	22.86	76.88	8.1	33.55	8.3	22.9	1.07
I17	04 Aug 2016	2	22.84	76.89	8.1	33.55	8.3	22.9	1.38
I17	04 Aug 2016	3	22.78	76.48	8.1	33.55	8.3	22.9	1.72
I17	04 Aug 2016	4	22.61	76.48	8.3	33.54	8.3	22.9	2.01
I17	04 Aug 2016	5	22.39	77.39	8.5	33.52	8.3	23.0	2.26
I17	04 Aug 2016	6	21.96	78.69	8.6	33.52	8.3	23.1	2.48
I17	04 Aug 2016	7	21.83	79.21	8.6	33.50	8.3	23.1	2.63
I17	04 Aug 2016	8	21.32	79.54	8.6	33.50	8.3	23.3	2.83
I17	04 Aug 2016	9	20.96	79.91	8.5	33.47	8.3	23.3	2.80
I17	04 Aug 2016	10	20.38	80.13	8.4	33.45	8.3	23.5	2.62
I17	04 Aug 2016	11	19.62	80.86	8.6	33.39	8.3	23.6	2.50
I17	04 Aug 2016	12	19.07	81.37	8.6	33.39	8.3	23.8	2.35
I17	04 Aug 2016	13	18.98	81.63	8.5	33.38	8.2	23.8	2.19
I17	04 Aug 2016	14	18.58	81.98	8.5	33.37	8.2	23.9	2.14
I17	04 Aug 2016	15	18.07	82.44	8.5	33.34	8.2	24.0	2.16
I17	04 Aug 2016	16	17.63	82.79	8.5	33.34	8.2	24.1	2.25
I17	04 Aug 2016	17	17.43	82.99	8.3	33.35	8.2	24.1	2.42
I17	04 Aug 2016	18	17.20	82.89	8.1	33.34	8.2	24.2	2.71
I17	04 Aug 2016	19	16.98	82.39	7.8	33.34	8.2	24.2	2.82
I17	04 Aug 2016	20	16.54	81.94	7.6	33.35	8.2	24.4	2.69
I17	04 Aug 2016	21	16.26	82.09	7.3	33.35	8.2	24.4	2.44
I17	04 Aug 2016	22	16.08	82.24	7.2	33.35	8.2	24.5	2.24
I17	04 Aug 2016	23	15.76	82.40	7.3	33.35	8.1	24.5	2.16
I17	04 Aug 2016	24	15.62	82.35	7.4	33.35	8.1	24.6	2.12
I17	04 Aug 2016	25	15.59	82.51	7.4	33.36	8.1	24.6	2.14
I18	04 Aug 2016	1	22.33	76.23	8.0	33.52	8.3	23.0	1.43
I18	04 Aug 2016	2	22.56	76.21	7.5	33.56	8.3	23.0	2.34
I18	04 Aug 2016	3	22.55	76.31	7.4	33.50	8.3	22.9	2.87
I18	04 Aug 2016	4	21.22	75.94	7.7	33.42	8.3	23.2	2.76
I18	04 Aug 2016	5	19.61	75.68	8.2	33.43	8.2	23.7	2.49
I18	04 Aug 2016	6	19.23	74.32	8.5	33.43	8.2	23.8	2.35
I18	04 Aug 2016	7	19.00	74.89	8.6	33.40	8.2	23.8	2.50
I18	04 Aug 2016	8	18.44	76.98	8.5	33.34	8.2	23.9	2.77
I18	04 Aug 2016	9	17.86	79.34	8.4	33.33	8.2	24.0	3.05
I18	04 Aug 2016	10	17.56	80.50	8.1	33.34	8.2	24.1	3.19
I18	04 Aug 2016	11	17.37	81.11	7.7	33.34	8.2	24.1	3.15
I18	04 Aug 2016	12	17.25	80.99	7.5	33.35	8.2	24.2	3.16
I18	04 Aug 2016	13	17.17	80.51	7.6	33.35	8.2	24.2	3.14
I18	04 Aug 2016	14	16.96	79.30	7.6	33.34	8.2	24.2	3.04
I18	04 Aug 2016	15	16.69	80.05	7.5	33.34	8.2	24.3	2.81
I18	04 Aug 2016	16	16.44	80.29	7.3	33.34	8.2	24.4	2.63
I18	04 Aug 2016	17	16.23	80.99	7.2	33.34	8.2	24.4	2.41
I18	04 Aug 2016	18	16.11	80.89	7.2	33.35	8.1	24.5	2.37
I18	04 Aug 2016	19	16.07	80.23	7.3	33.35	8.1	24.5	2.47
I20	02 Aug 2016	1	22.64	81.40	9.4	33.59	8.3	23.0	1.68
I20	02 Aug 2016	2	22.64	81.47	9.2	33.59	8.3	23.0	1.64
I20	02 Aug 2016	3	22.61	81.57	9.0	33.58	8.3	23.0	1.52
I20	02 Aug 2016	4	21.93	82.11	9.1	33.51	8.3	23.1	1.56
I20	02 Aug 2016	5	21.11	82.91	9.2	33.51	8.3	23.3	1.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I20	02 Aug 2016	6	20.97	82.97	9.0	33.50	8.3	23.4	1.70
I20	02 Aug 2016	7	20.87	82.97	8.6	33.49	8.3	23.4	1.75
I20	02 Aug 2016	8	20.19	83.30	8.5	33.45	8.3	23.5	1.85
I20	02 Aug 2016	9	19.57	83.84	8.6	33.45	8.3	23.7	1.96
I20	02 Aug 2016	10	19.27	83.86	8.5	33.44	8.2	23.8	2.14
I20	02 Aug 2016	11	19.07	83.77	8.3	33.41	8.2	23.8	2.50
I20	02 Aug 2016	12	18.62	83.55	8.2	33.39	8.2	23.9	3.04
I20	02 Aug 2016	13	18.08	83.44	8.4	33.34	8.2	24.0	3.36
I20	02 Aug 2016	14	16.87	83.08	8.7	33.36	8.2	24.3	3.62
I20	02 Aug 2016	15	16.54	82.38	9.0	33.34	8.2	24.3	3.70
I20	02 Aug 2016	16	16.17	82.41	9.2	33.36	8.2	24.4	3.73
I20	02 Aug 2016	17	16.05	82.31	9.2	33.35	8.2	24.5	3.47
I20	02 Aug 2016	18	15.99	82.72	8.9	33.35	8.2	24.5	3.37
I20	02 Aug 2016	19	15.61	83.12	8.7	33.33	8.2	24.5	3.77
I20	02 Aug 2016	20	15.33	83.27	8.3	33.36	8.2	24.6	3.68
I20	02 Aug 2016	21	14.85	82.58	7.8	33.30	8.2	24.7	2.93
I20	02 Aug 2016	22	14.37	82.28	6.8	33.34	8.2	24.8	2.37
I20	02 Aug 2016	23	14.01	83.94	6.4	33.33	8.2	24.9	1.95
I20	02 Aug 2016	24	13.65	85.61	6.5	33.32	8.1	25.0	1.72
I20	02 Aug 2016	25	13.42	86.28	6.6	33.33	8.1	25.0	1.70
I20	02 Aug 2016	26	13.35	86.44	6.7	33.33	8.1	25.0	1.67
I20	02 Aug 2016	27	13.34	86.27	6.8	33.33	8.1	25.0	1.64
I20	02 Aug 2016	28	13.34	86.44	6.7	33.34	8.0	25.0	1.53
I20	02 Aug 2016	29	13.29	86.38	6.6	33.34	8.0	25.0	1.42
I20	02 Aug 2016	30	13.26	86.61	6.5	33.34	8.0	25.1	1.38
I20	02 Aug 2016	31	13.10	87.03	6.5	33.34	8.0	25.1	1.49
I20	02 Aug 2016	32	13.05	87.01	6.4	33.35	8.0	25.1	1.36
I20	02 Aug 2016	33	13.02	87.06	6.4	33.35	8.0	25.1	1.28
I20	02 Aug 2016	34	12.92	87.22	6.3	33.36	8.0	25.1	1.28
I20	02 Aug 2016	35	12.92	87.23	6.2	33.36	8.0	25.1	1.23
I20	02 Aug 2016	36	12.85	87.10	6.2	33.36	8.0	25.2	1.17
I20	02 Aug 2016	37	12.81	87.22	6.2	33.36	8.0	25.2	1.16
I20	02 Aug 2016	38	12.75	87.19	6.2	33.37	8.0	25.2	1.12
I20	02 Aug 2016	39	12.76	87.31	6.1	33.37	8.0	25.2	1.10
I20	02 Aug 2016	40	12.72	87.26	6.2	33.38	8.0	25.2	1.15
I20	02 Aug 2016	41	12.71	87.26	6.2	33.38	8.0	25.2	1.11
I20	02 Aug 2016	42	12.71	87.21	6.2	33.38	8.0	25.2	1.12
I20	02 Aug 2016	43	12.71	87.17	6.2	33.38	8.0	25.2	1.14
I20	02 Aug 2016	44	12.70	87.18	6.2	33.38	8.0	25.2	1.14
I20	02 Aug 2016	45	12.69	87.24	6.2	33.39	8.0	25.2	1.10
I20	02 Aug 2016	46	12.68	87.21	6.1	33.39	8.0	25.2	1.07
I20	02 Aug 2016	47	12.67	87.31	6.1	33.39	8.0	25.2	1.11
I20	02 Aug 2016	48	12.65	87.27	6.1	33.40	8.0	25.2	1.02
I20	02 Aug 2016	49	12.64	87.29	5.9	33.40	8.0	25.2	0.91
I20	02 Aug 2016	50	12.63	87.20	5.5	33.40	8.0	25.2	0.82
I20	02 Aug 2016	51	12.38	87.17	5.3	33.40	8.0	25.3	0.83
I20	02 Aug 2016	52	12.14	87.07	5.4	33.42	8.0	25.3	0.79
I20	02 Aug 2016	53	12.12	87.02	5.4	33.42	7.9	25.3	0.76
I20	02 Aug 2016	54	12.07	86.81	5.5	33.43	7.9	25.4	0.78
I20	02 Aug 2016	55	12.07	86.93	5.5	33.43	7.9	25.4	0.82
I21	02 Aug 2016	1	23.02	79.30	9.3	33.59	8.4	22.9	1.83
I21	02 Aug 2016	2	22.98	79.54	9.2	33.58	8.4	22.9	1.58
I21	02 Aug 2016	3	22.77	80.41	8.9	33.57	8.4	22.9	1.48
I21	02 Aug 2016	4	21.85	81.63	8.8	33.52	8.3	23.1	1.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I21	02 Aug 2016	5	21.34	81.79	8.8	33.49	8.3	23.2	2.04
I21	02 Aug 2016	6	20.56	81.64	8.6	33.48	8.3	23.5	2.34
I21	02 Aug 2016	7	20.11	81.50	8.7	33.44	8.3	23.5	2.37
I21	02 Aug 2016	8	19.50	81.75	8.8	33.44	8.3	23.7	2.51
I21	02 Aug 2016	9	19.20	82.03	8.8	33.43	8.3	23.8	2.57
I21	02 Aug 2016	10	18.84	81.96	8.8	33.42	8.3	23.9	2.62
I21	02 Aug 2016	11	18.77	82.05	8.7	33.42	8.3	23.9	2.75
I21	02 Aug 2016	12	18.26	82.32	8.8	33.40	8.2	24.0	2.91
I21	02 Aug 2016	13	18.04	82.36	8.8	33.41	8.2	24.0	2.97
I21	02 Aug 2016	14	17.76	82.54	8.8	33.41	8.2	24.1	2.87
I21	02 Aug 2016	15	17.72	82.57	8.6	33.41	8.2	24.1	2.54
I21	02 Aug 2016	16	17.58	82.75	8.1	33.40	8.2	24.1	2.47
I21	02 Aug 2016	17	16.87	83.64	7.6	33.36	8.2	24.3	2.65
I21	02 Aug 2016	18	15.61	84.69	7.5	33.36	8.2	24.6	2.64
I21	02 Aug 2016	19	14.90	84.82	7.7	33.34	8.2	24.7	2.59
I21	02 Aug 2016	20	14.63	84.65	7.6	33.35	8.1	24.8	2.35
I21	02 Aug 2016	21	14.52	84.72	7.3	33.35	8.1	24.8	2.09
I21	02 Aug 2016	22	14.39	85.03	6.9	33.34	8.1	24.8	1.85
I21	02 Aug 2016	23	14.12	85.48	6.6	33.33	8.1	24.9	1.65
I21	02 Aug 2016	24	13.72	86.17	6.5	33.33	8.1	25.0	1.57
I21	02 Aug 2016	25	13.58	86.58	6.5	33.34	8.1	25.0	1.48
I21	02 Aug 2016	26	13.41	86.56	6.5	33.34	8.1	25.0	1.45
I21	02 Aug 2016	27	13.32	86.81	6.6	33.34	8.0	25.0	1.45
I21	02 Aug 2016	28	13.31	86.81	6.6	33.34	8.0	25.0	1.43
I21	02 Aug 2016	29	13.30	86.80	6.6	33.35	8.0	25.1	1.40
I21	02 Aug 2016	30	13.30	86.81	6.6	33.35	8.0	25.1	1.38
I21	02 Aug 2016	31	13.29	86.86	6.5	33.36	8.0	25.1	1.38
I21	02 Aug 2016	32	13.26	86.89	6.5	33.36	8.0	25.1	1.34
I21	02 Aug 2016	33	13.24	86.93	6.5	33.36	8.0	25.1	1.37
I21	02 Aug 2016	34	13.23	86.96	6.5	33.36	8.0	25.1	1.38
I21	02 Aug 2016	35	13.23	86.97	6.5	33.37	8.0	25.1	1.31
I21	02 Aug 2016	36	13.22	87.01	6.5	33.37	8.0	25.1	1.28
I21	02 Aug 2016	37	13.20	86.98	6.5	33.37	8.0	25.1	1.29
I21	02 Aug 2016	38	13.20	86.98	6.5	33.38	8.0	25.1	1.30
I21	02 Aug 2016	39	13.18	87.03	6.5	33.38	8.0	25.1	1.29
I21	02 Aug 2016	40	13.18	87.05	6.5	33.38	8.0	25.1	1.30
I21	02 Aug 2016	41	13.18	87.00	6.5	33.38	8.0	25.1	1.33
I22	04 Aug 2016	1	23.08	78.17	8.3	33.56	8.3	22.8	1.02
I22	04 Aug 2016	2	23.01	78.53	8.3	33.56	8.3	22.8	1.31
I22	04 Aug 2016	3	22.81	78.80	8.4	33.55	8.3	22.9	1.72
I22	04 Aug 2016	4	22.55	78.94	8.5	33.55	8.3	23.0	1.99
I22	04 Aug 2016	5	22.48	79.44	8.4	33.55	8.3	23.0	2.54
I22	04 Aug 2016	6	22.18	79.89	8.2	33.51	8.3	23.0	2.85
I22	04 Aug 2016	7	20.97	79.87	8.3	33.43	8.3	23.3	2.94
I22	04 Aug 2016	8	19.34	80.51	8.4	33.39	8.3	23.7	2.90
I22	04 Aug 2016	9	18.86	81.11	8.4	33.37	8.2	23.8	2.83
I22	04 Aug 2016	10	18.36	81.54	8.4	33.33	8.2	23.9	2.76
I22	04 Aug 2016	11	18.07	81.65	8.5	33.32	8.2	24.0	2.58
I22	04 Aug 2016	12	17.93	81.88	8.5	33.33	8.2	24.0	2.47
I22	04 Aug 2016	13	17.79	82.07	8.5	33.34	8.2	24.0	2.59
I22	04 Aug 2016	14	17.43	82.39	8.4	33.34	8.2	24.1	2.69
I22	04 Aug 2016	15	17.21	82.58	8.4	33.34	8.2	24.2	2.66
I22	04 Aug 2016	16	17.07	82.42	8.3	33.34	8.2	24.2	2.63
I22	04 Aug 2016	17	16.92	82.44	8.2	33.34	8.2	24.3	2.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I22	04 Aug 2016	18	16.85	82.51	8.0	33.35	8.2	24.3	2.71
I22	04 Aug 2016	19	16.66	82.46	7.8	33.35	8.2	24.3	2.75
I22	04 Aug 2016	20	16.58	82.05	7.8	33.36	8.2	24.4	2.79
I22	04 Aug 2016	21	16.57	81.99	7.6	33.37	8.2	24.4	2.66
I22	04 Aug 2016	22	16.56	81.82	7.3	33.37	8.2	24.4	2.53
I22	04 Aug 2016	23	16.45	81.54	7.2	33.37	8.2	24.4	2.28
I22	04 Aug 2016	24	16.27	82.11	6.9	33.38	8.1	24.4	2.00
I22	04 Aug 2016	25	16.03	82.43	6.9	33.36	8.1	24.5	1.91
I22	04 Aug 2016	26	15.78	82.61	7.0	33.37	8.1	24.5	1.83
I22	04 Aug 2016	27	15.73	82.73	7.0	33.37	8.1	24.6	1.88
I22	04 Aug 2016	28	15.66	82.83	7.0	33.38	8.1	24.6	1.84
I23	04 Aug 2016	1	23.12	76.23	8.1	33.56	8.3	22.8	1.04
I23	04 Aug 2016	2	23.08	76.88	8.0	33.55	8.3	22.8	1.47
I23	04 Aug 2016	3	22.83	76.58	8.3	33.53	8.3	22.9	1.93
I23	04 Aug 2016	4	21.80	77.08	8.5	33.48	8.3	23.1	2.28
I23	04 Aug 2016	5	21.10	77.79	8.5	33.49	8.3	23.3	2.46
I23	04 Aug 2016	6	20.71	78.40	8.5	33.47	8.3	23.4	2.64
I23	04 Aug 2016	7	20.40	78.29	8.3	33.46	8.3	23.5	2.80
I23	04 Aug 2016	8	20.18	77.90	8.2	33.45	8.3	23.5	2.87
I23	04 Aug 2016	9	19.90	77.18	8.2	33.44	8.3	23.6	2.94
I23	04 Aug 2016	10	19.51	77.04	8.2	33.43	8.2	23.7	3.18
I23	04 Aug 2016	11	19.27	76.97	8.2	33.41	8.2	23.7	3.23
I23	04 Aug 2016	12	18.54	77.74	8.3	33.40	8.2	23.9	3.37
I23	04 Aug 2016	13	18.40	78.30	8.1	33.40	8.2	23.9	3.48
I23	04 Aug 2016	14	18.32	78.02	7.6	33.40	8.2	24.0	3.72
I23	04 Aug 2016	15	18.04	77.51	7.6	33.39	8.2	24.0	3.66
I23	04 Aug 2016	16	17.89	77.97	7.8	33.39	8.2	24.1	3.36
I23	04 Aug 2016	17	17.56	78.82	7.8	33.37	8.2	24.1	2.94
I23	04 Aug 2016	18	17.14	80.25	7.7	33.37	8.2	24.2	2.69
I23	04 Aug 2016	19	16.87	80.76	7.7	33.37	8.2	24.3	2.57
I23	04 Aug 2016	20	16.81	80.90	7.6	33.37	8.2	24.3	2.43
I23	04 Aug 2016	21	16.75	80.89	7.7	33.38	8.2	24.3	2.63
I27	04 Aug 2016	1	22.79	79.91	8.1	33.55	8.3	22.9	1.45
I27	04 Aug 2016	2	22.79	79.91	8.1	33.55	8.3	22.9	1.47
I27	04 Aug 2016	3	22.79	80.05	8.1	33.55	8.3	22.9	1.49
I27	04 Aug 2016	4	22.78	80.13	8.1	33.55	8.3	22.9	1.51
I27	04 Aug 2016	5	22.78	80.17	8.1	33.55	8.3	22.9	1.70
I27	04 Aug 2016	6	22.78	80.18	8.2	33.55	8.3	22.9	2.00
I27	04 Aug 2016	7	22.70	80.13	8.2	33.54	8.3	22.9	2.06
I27	04 Aug 2016	8	22.43	79.52	8.3	33.54	8.3	23.0	2.04
I27	04 Aug 2016	9	21.66	80.23	8.8	33.46	8.3	23.1	2.13
I27	04 Aug 2016	10	20.10	81.55	9.0	33.46	8.3	23.6	2.28
I27	04 Aug 2016	11	19.82	82.00	8.7	33.46	8.3	23.6	2.60
I27	04 Aug 2016	12	19.71	81.88	8.3	33.44	8.3	23.6	2.76
I27	04 Aug 2016	13	18.82	81.49	8.2	33.39	8.3	23.8	2.79
I27	04 Aug 2016	14	18.40	81.49	8.2	33.37	8.2	23.9	2.67
I27	04 Aug 2016	15	17.87	81.83	8.2	33.32	8.2	24.0	2.56
I27	04 Aug 2016	16	17.08	82.36	8.3	33.31	8.2	24.2	2.58
I27	04 Aug 2016	17	16.84	82.55	8.1	33.33	8.2	24.3	2.69
I27	04 Aug 2016	18	16.80	82.43	7.5	33.33	8.2	24.3	2.72
I27	04 Aug 2016	19	16.34	82.31	7.4	33.31	8.2	24.4	2.70
I27	04 Aug 2016	20	16.11	82.71	7.4	33.34	8.2	24.4	2.77
I27	04 Aug 2016	21	15.88	82.91	7.6	33.33	8.2	24.5	2.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I27	04 Aug 2016	22	15.67	83.05	7.7	33.33	8.1	24.5	2.65
I27	04 Aug 2016	23	15.66	83.25	7.6	33.34	8.1	24.5	2.21
I27	04 Aug 2016	24	15.57	83.54	7.2	33.34	8.1	24.6	1.82
I27	04 Aug 2016	25	15.48	84.44	7.0	33.34	8.1	24.6	1.65
I27	04 Aug 2016	26	15.14	84.53	7.2	33.34	8.1	24.7	1.55
I27	04 Aug 2016	27	15.06	84.48	7.2	33.34	8.1	24.7	1.67
I27	04 Aug 2016	28	14.97	84.28	7.3	33.35	8.1	24.7	1.68
I28	03 Aug 2016	1	22.98	83.15	8.8	33.59	8.3	22.9	1.00
I28	03 Aug 2016	2	23.05	83.26	8.8	33.59	8.3	22.9	1.11
I28	03 Aug 2016	3	23.04	83.27	8.8	33.59	8.3	22.9	1.50
I28	03 Aug 2016	4	23.00	83.31	8.9	33.58	8.3	22.9	1.79
I28	03 Aug 2016	5	21.55	82.63	9.0	33.47	8.3	23.2	1.89
I28	03 Aug 2016	6	20.56	82.52	8.5	33.48	8.3	23.5	2.03
I28	03 Aug 2016	7	19.69	82.94	8.4	33.42	8.3	23.6	2.54
I28	03 Aug 2016	8	19.35	82.90	7.9	33.42	8.3	23.7	3.28
I28	03 Aug 2016	9	18.50	82.45	8.0	33.30	8.2	23.8	3.48
I28	03 Aug 2016	10	16.59	82.37	8.2	33.35	8.2	24.3	3.79
I28	03 Aug 2016	11	16.57	82.86	8.2	33.35	8.2	24.3	3.88
I28	03 Aug 2016	12	16.23	82.51	8.2	33.34	8.2	24.4	3.89
I28	03 Aug 2016	13	16.18	82.44	8.3	33.34	8.2	24.4	3.87
I28	03 Aug 2016	14	16.12	82.29	8.3	33.34	8.2	24.4	3.66
I28	03 Aug 2016	15	16.08	82.50	8.4	33.35	8.2	24.5	3.46
I28	03 Aug 2016	16	16.01	82.81	8.4	33.35	8.2	24.5	3.04
I28	03 Aug 2016	17	15.89	83.23	8.4	33.35	8.2	24.5	2.93
I28	03 Aug 2016	18	15.15	83.82	8.6	33.31	8.2	24.6	2.97
I28	03 Aug 2016	19	14.73	83.98	8.5	33.33	8.2	24.7	3.04
I28	03 Aug 2016	20	14.65	83.93	8.3	33.33	8.2	24.8	3.25
I28	03 Aug 2016	21	14.55	83.87	8.1	33.33	8.2	24.8	3.24
I28	03 Aug 2016	22	14.46	83.68	8.0	33.32	8.2	24.8	3.17
I28	03 Aug 2016	23	14.18	83.63	8.0	33.33	8.1	24.9	2.96
I28	03 Aug 2016	24	14.14	83.71	7.9	33.34	8.1	24.9	2.64
I28	03 Aug 2016	25	14.12	83.83	7.5	33.34	8.1	24.9	2.38
I28	03 Aug 2016	26	14.05	84.14	7.2	33.34	8.1	24.9	2.37
I28	03 Aug 2016	27	13.94	85.19	6.9	33.34	8.1	24.9	2.61
I28	03 Aug 2016	28	13.75	85.31	6.8	33.34	8.1	25.0	2.72
I28	03 Aug 2016	29	13.59	85.18	6.9	33.35	8.1	25.0	2.59
I28	03 Aug 2016	30	13.49	84.61	6.8	33.36	8.1	25.0	2.36
I28	03 Aug 2016	31	13.46	84.74	6.5	33.35	8.1	25.0	2.29
I28	03 Aug 2016	32	13.28	85.04	6.4	33.35	8.0	25.1	2.23
I28	03 Aug 2016	33	13.12	85.14	6.3	33.37	8.0	25.1	2.35
I28	03 Aug 2016	34	13.07	85.33	6.2	33.37	8.0	25.1	2.51
I28	03 Aug 2016	35	12.97	85.64	6.2	33.38	8.0	25.1	1.98
I28	03 Aug 2016	36	12.91	85.28	6.2	33.38	8.0	25.2	1.55
I28	03 Aug 2016	37	12.84	84.89	6.2	33.39	8.0	25.2	1.36
I28	03 Aug 2016	38	12.80	86.32	6.2	33.39	8.0	25.2	1.22
I28	03 Aug 2016	39	12.75	86.79	6.1	33.39	8.0	25.2	1.11
I28	03 Aug 2016	40	12.72	86.89	6.1	33.39	8.0	25.2	1.05
I28	03 Aug 2016	41	12.66	87.32	6.1	33.39	8.0	25.2	0.95
I28	03 Aug 2016	42	12.62	87.72	6.1	33.40	8.0	25.2	0.83
I28	03 Aug 2016	43	12.61	87.67	6.0	33.40	8.0	25.2	0.80
I28	03 Aug 2016	44	12.56	87.83	5.9	33.39	8.0	25.2	0.71
I28	03 Aug 2016	45	12.44	88.19	5.7	33.40	8.0	25.3	0.64
I28	03 Aug 2016	46	12.37	88.32	5.6	33.40	8.0	25.3	0.59
I28	03 Aug 2016	47	12.20	88.23	5.5	33.40	8.0	25.3	0.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I28	03 Aug 2016	48	12.11	87.76	5.5	33.41	8.0	25.3	0.54
I28	03 Aug 2016	49	12.10	87.64	5.5	33.41	7.9	25.3	0.53
I28	03 Aug 2016	50	12.03	87.31	5.5	33.41	7.9	25.4	0.52
I28	03 Aug 2016	51	12.01	87.12	5.5	33.42	7.9	25.4	0.54
I28	03 Aug 2016	52	12.01	87.14	5.5	33.42	7.9	25.4	0.51
I28	03 Aug 2016	53	12.00	87.03	5.5	33.42	7.9	25.4	0.52
I28	03 Aug 2016	54	12.00	86.75	5.5	33.42	7.9	25.4	0.51
I28	03 Aug 2016	55	12.00	86.82	5.5	33.42	7.9	25.4	0.51
I29	03 Aug 2016	1	22.22	81.90	8.8	33.54	8.3	23.0	1.51
I29	03 Aug 2016	2	21.52	82.34	8.7	33.52	8.3	23.2	1.67
I29	03 Aug 2016	3	21.05	82.60	8.7	33.50	8.3	23.3	1.83
I29	03 Aug 2016	4	20.49	82.53	8.9	33.47	8.3	23.5	1.92
I29	03 Aug 2016	5	20.15	82.77	8.9	33.48	8.3	23.6	2.13
I29	03 Aug 2016	6	20.12	82.94	8.7	33.48	8.3	23.6	2.32
I29	03 Aug 2016	7	20.02	83.04	8.6	33.47	8.3	23.6	2.62
I29	03 Aug 2016	8	19.83	82.87	8.5	33.45	8.3	23.6	2.92
I29	03 Aug 2016	9	19.49	82.48	8.4	33.45	8.3	23.7	3.13
I29	03 Aug 2016	10	19.29	82.19	8.4	33.43	8.3	23.7	3.14
I29	03 Aug 2016	11	18.60	82.01	8.5	33.41	8.3	23.9	3.12
I29	03 Aug 2016	12	18.30	82.30	8.6	33.41	8.2	24.0	3.14
I29	03 Aug 2016	13	18.09	82.47	8.5	33.41	8.2	24.0	3.01
I29	03 Aug 2016	14	17.81	82.67	8.5	33.39	8.2	24.1	2.91
I29	03 Aug 2016	15	17.57	82.91	8.4	33.40	8.2	24.2	2.95
I29	03 Aug 2016	16	17.46	83.12	8.2	33.39	8.2	24.2	3.10
I29	03 Aug 2016	17	17.07	83.66	7.8	33.38	8.2	24.3	3.03
I29	03 Aug 2016	18	16.69	83.63	7.4	33.36	8.2	24.3	2.73
I29	03 Aug 2016	19	15.73	83.77	7.1	33.35	8.2	24.5	2.38
I29	03 Aug 2016	20	15.32	84.54	6.9	33.32	8.2	24.6	2.14
I29	03 Aug 2016	21	14.58	84.98	7.1	33.31	8.2	24.8	1.98
I29	03 Aug 2016	22	14.32	85.42	7.2	33.32	8.1	24.8	2.07
I29	03 Aug 2016	23	14.26	85.69	7.2	33.32	8.1	24.8	1.96
I29	03 Aug 2016	24	14.24	85.68	7.1	33.32	8.1	24.8	1.90
I29	03 Aug 2016	25	14.21	85.64	7.0	33.32	8.1	24.8	1.78
I29	03 Aug 2016	26	14.12	85.95	6.8	33.32	8.1	24.9	1.59
I29	03 Aug 2016	27	13.95	86.10	6.7	33.32	8.1	24.9	1.49
I29	03 Aug 2016	28	13.77	86.33	6.7	33.33	8.1	24.9	1.36
I29	03 Aug 2016	29	13.71	86.51	6.6	33.33	8.1	25.0	1.25
I29	03 Aug 2016	30	13.62	86.79	6.5	33.33	8.1	25.0	1.25
I29	03 Aug 2016	31	13.47	87.05	6.4	33.34	8.0	25.0	1.13
I29	03 Aug 2016	32	13.41	87.15	6.2	33.34	8.0	25.0	1.09
I29	03 Aug 2016	33	13.21	87.12	6.2	33.34	8.0	25.1	1.10
I29	03 Aug 2016	34	13.03	87.09	6.3	33.35	8.0	25.1	1.07
I29	03 Aug 2016	35	13.02	87.03	6.3	33.35	8.0	25.1	1.08
I29	03 Aug 2016	36	13.02	87.01	6.3	33.35	8.0	25.1	1.11
I29	03 Aug 2016	37	13.02	86.82	6.3	33.36	8.0	25.1	1.12
I30	03 Aug 2016	1	22.62	81.69	8.5	33.56	8.3	22.9	1.04
I30	03 Aug 2016	2	22.59	81.59	8.5	33.56	8.3	23.0	1.18
I30	03 Aug 2016	3	22.52	81.78	8.6	33.56	8.3	23.0	1.49
I30	03 Aug 2016	4	22.23	81.89	8.7	33.54	8.3	23.0	1.61
I30	03 Aug 2016	5	22.05	81.71	8.7	33.53	8.3	23.1	1.68
I30	03 Aug 2016	6	21.82	81.60	8.5	33.52	8.3	23.1	1.80
I30	03 Aug 2016	7	21.24	81.54	8.5	33.47	8.3	23.3	1.94
I30	03 Aug 2016	8	19.80	82.71	8.7	33.45	8.3	23.6	2.00

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I30	03 Aug 2016	9	19.44	83.02	8.7	33.44	8.3	23.7	2.07
I30	03 Aug 2016	10	18.91	83.13	8.8	33.42	8.3	23.8	2.10
I30	03 Aug 2016	11	18.54	83.52	8.8	33.42	8.3	23.9	2.18
I30	03 Aug 2016	12	18.46	83.78	8.8	33.42	8.3	23.9	2.19
I30	03 Aug 2016	13	18.42	83.84	8.8	33.42	8.2	24.0	2.33
I30	03 Aug 2016	14	18.41	83.82	8.8	33.42	8.2	24.0	2.46
I30	03 Aug 2016	15	18.34	83.84	8.7	33.42	8.2	24.0	2.71
I30	03 Aug 2016	16	18.14	83.83	8.3	33.42	8.2	24.0	2.89
I30	03 Aug 2016	17	17.97	83.61	7.8	33.42	8.2	24.1	2.88
I30	03 Aug 2016	18	17.37	83.03	7.7	33.35	8.2	24.2	2.74
I30	03 Aug 2016	19	16.90	82.63	7.4	33.38	8.2	24.3	2.69
I30	03 Aug 2016	20	16.99	82.03	7.1	33.36	8.2	24.3	2.75
I30	03 Aug 2016	21	16.43	82.14	7.4	33.37	8.2	24.4	2.70
I30	03 Aug 2016	22	16.41	82.00	7.5	33.38	8.1	24.4	2.60
I30	03 Aug 2016	23	16.03	82.47	7.4	33.33	8.1	24.5	2.35
I30	03 Aug 2016	24	15.70	83.24	7.1	33.33	8.2	24.5	2.23
I30	03 Aug 2016	25	15.12	83.99	7.1	33.32	8.1	24.7	2.05
I30	03 Aug 2016	26	14.76	84.44	7.1	33.33	8.1	24.7	2.03
I30	03 Aug 2016	27	14.64	84.51	7.2	33.33	8.1	24.8	2.11
I30	03 Aug 2016	28	14.62	84.63	7.3	33.34	8.1	24.8	2.15
I31	03 Aug 2016	1	22.54	80.27	8.3	33.53	8.3	23.0	1.41
I31	03 Aug 2016	2	22.48	79.91	8.3	33.53	8.3	23.0	1.66
I31	03 Aug 2016	3	22.38	79.72	8.2	33.52	8.3	23.0	1.87
I31	03 Aug 2016	4	22.21	79.15	8.2	33.51	8.3	23.0	2.38
I31	03 Aug 2016	5	22.11	78.96	8.3	33.51	8.3	23.1	2.67
I31	03 Aug 2016	6	21.77	78.51	8.5	33.49	8.3	23.1	2.51
I31	03 Aug 2016	7	21.30	78.73	8.7	33.48	8.3	23.3	2.53
I31	03 Aug 2016	8	20.70	80.15	8.7	33.48	8.3	23.4	2.64
I31	03 Aug 2016	9	20.54	80.43	8.5	33.48	8.3	23.5	2.89
I31	03 Aug 2016	10	20.35	80.66	8.3	33.46	8.3	23.5	2.91
I31	03 Aug 2016	11	19.75	80.29	8.3	33.46	8.3	23.6	2.89
I31	03 Aug 2016	12	19.21	80.12	7.9	33.42	8.3	23.8	3.00
I31	03 Aug 2016	13	18.60	81.57	7.3	33.40	8.3	23.9	2.89
I31	03 Aug 2016	14	17.38	81.04	7.3	33.37	8.2	24.2	2.59
I31	03 Aug 2016	15	17.16	81.11	7.2	33.38	8.2	24.2	2.46
I31	03 Aug 2016	16	16.87	81.43	7.0	33.38	8.2	24.3	2.37
I31	03 Aug 2016	17	16.79	82.04	6.8	33.37	8.1	24.3	2.16
I31	03 Aug 2016	18	16.13	82.12	6.8	33.35	8.1	24.5	2.04
I31	03 Aug 2016	19	15.85	81.94	7.1	33.36	8.1	24.5	2.25
I33	03 Aug 2016	1	22.30	80.36	8.8	33.57	8.3	23.0	1.65
I33	03 Aug 2016	2	22.24	80.43	8.6	33.56	8.3	23.1	1.62
I33	03 Aug 2016	3	22.01	80.64	8.3	33.55	8.3	23.1	1.73
I33	03 Aug 2016	4	21.75	80.21	8.0	33.54	8.3	23.2	1.93
I33	03 Aug 2016	5	21.46	78.67	7.7	33.53	8.3	23.3	2.19
I33	03 Aug 2016	6	20.44	77.86	8.3	33.48	8.2	23.5	2.56
I33	03 Aug 2016	7	19.08	80.84	8.6	33.44	8.2	23.8	2.71
I33	03 Aug 2016	8	18.71	82.02	8.5	33.41	8.2	23.9	2.59
I33	03 Aug 2016	9	18.41	82.10	8.5	33.39	8.2	23.9	2.61
I33	03 Aug 2016	10	18.04	82.65	8.3	33.40	8.2	24.0	2.77
I33	03 Aug 2016	11	18.01	83.27	8.0	33.37	8.2	24.0	3.12
I33	03 Aug 2016	12	17.10	83.71	7.9	33.37	8.2	24.2	3.22
I33	03 Aug 2016	13	16.81	83.37	7.8	33.36	8.2	24.3	3.17
I33	03 Aug 2016	14	16.05	82.97	7.8	33.26	8.2	24.4	2.86

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I33	03 Aug 2016	15	15.71	83.65	7.3	33.32	8.2	24.5	2.52
I33	03 Aug 2016	16	15.46	83.67	7.0	33.28	8.2	24.5	2.21
I33	03 Aug 2016	17	14.84	84.22	7.0	33.34	8.2	24.7	2.01
I33	03 Aug 2016	18	14.95	84.66	6.8	33.33	8.1	24.7	1.92
I33	03 Aug 2016	19	14.75	84.73	6.8	33.34	8.1	24.7	1.84
I33	03 Aug 2016	20	14.69	84.82	6.9	33.35	8.1	24.8	1.80
I33	03 Aug 2016	21	14.64	84.96	6.9	33.34	8.1	24.8	1.86
I33	03 Aug 2016	22	14.48	85.02	6.9	33.35	8.1	24.8	1.75
I33	03 Aug 2016	23	14.49	85.01	6.9	33.35	8.1	24.8	1.80
I33	03 Aug 2016	24	14.43	85.06	6.9	33.34	8.1	24.8	1.67
I33	03 Aug 2016	25	14.12	85.49	6.9	33.34	8.1	24.9	1.63
I33	03 Aug 2016	26	14.01	85.74	6.9	33.34	8.1	24.9	1.56
I33	03 Aug 2016	27	13.87	85.82	6.8	33.34	8.1	24.9	1.56
I33	03 Aug 2016	28	13.86	85.72	6.8	33.34	8.1	24.9	1.57
I33	03 Aug 2016	29	13.85	85.76	6.8	33.35	8.1	24.9	1.52
I33	03 Aug 2016	30	13.81	85.95	6.8	33.35	8.1	25.0	1.53
I34	03 Aug 2016	1	20.63	76.35	7.9	33.55	8.2	23.5	2.27
I34	03 Aug 2016	2	20.65	76.34	7.9	33.55	8.2	23.5	2.30
I34	03 Aug 2016	3	20.66	76.24	7.8	33.55	8.2	23.5	2.43
I34	03 Aug 2016	4	20.63	76.34	7.8	33.55	8.2	23.5	2.50
I34	03 Aug 2016	5	20.48	76.38	7.8	33.53	8.2	23.5	2.55
I34	03 Aug 2016	6	20.26	76.48	7.8	33.53	8.2	23.6	2.61
I34	03 Aug 2016	7	20.16	76.73	7.6	33.52	8.2	23.6	2.86
I34	03 Aug 2016	8	19.90	76.85	7.3	33.51	8.2	23.7	3.44
I34	03 Aug 2016	9	19.53	77.06	7.3	33.45	8.2	23.7	3.46
I34	03 Aug 2016	10	17.73	77.78	7.5	33.41	8.2	24.1	3.08
I34	03 Aug 2016	11	17.47	78.74	7.4	33.41	8.2	24.2	2.75
I34	03 Aug 2016	12	16.77	80.14	7.3	33.38	8.2	24.3	2.49
I34	03 Aug 2016	13	16.47	81.23	7.2	33.38	8.2	24.4	2.25
I34	03 Aug 2016	14	16.29	82.09	7.0	33.38	8.1	24.4	2.07
I34	03 Aug 2016	15	15.96	82.72	6.8	33.35	8.1	24.5	1.89
I34	03 Aug 2016	16	15.40	83.26	6.8	33.34	8.1	24.6	1.80
I34	03 Aug 2016	17	15.07	83.77	6.8	33.36	8.1	24.7	1.66
I34	03 Aug 2016	18	14.96	83.75	6.8	33.36	8.1	24.7	1.72
I34	03 Aug 2016	19	14.94	83.41	6.9	33.36	8.1	24.7	1.78
I35	03 Aug 2016	1	22.44	79.71	8.2	33.52	8.3	23.0	0.85
I35	03 Aug 2016	2	22.40	79.67	8.3	33.52	8.3	23.0	0.98
I35	03 Aug 2016	3	22.08	79.63	8.4	33.51	8.3	23.1	1.15
I35	03 Aug 2016	4	21.93	79.63	8.3	33.51	8.3	23.1	1.64
I35	03 Aug 2016	5	21.76	79.46	8.3	33.50	8.3	23.1	2.14
I35	03 Aug 2016	6	21.19	78.41	8.2	33.49	8.3	23.3	3.03
I35	03 Aug 2016	7	20.75	76.78	8.2	33.44	8.3	23.4	3.39
I35	03 Aug 2016	8	19.67	76.17	8.1	33.44	8.2	23.7	3.30
I35	03 Aug 2016	9	19.37	76.83	7.0	33.42	8.2	23.7	3.20
I35	03 Aug 2016	10	18.58	77.29	6.7	33.41	8.2	23.9	2.88
I35	03 Aug 2016	11	17.57	77.48	7.2	33.37	8.2	24.1	2.55
I35	03 Aug 2016	12	16.59	79.82	7.3	33.38	8.1	24.4	2.33
I35	03 Aug 2016	13	16.42	81.20	7.4	33.38	8.1	24.4	2.25
I35	03 Aug 2016	14	16.39	82.20	7.3	33.38	8.1	24.4	2.16
I35	03 Aug 2016	15	16.36	82.41	7.2	33.38	8.1	24.4	1.99
I35	03 Aug 2016	16	16.28	82.48	7.0	33.38	8.1	24.4	1.79
I35	03 Aug 2016	17	16.07	82.30	6.6	33.38	8.1	24.5	1.55
I35	03 Aug 2016	18	16.02	81.91	6.4	33.39	8.1	24.5	1.46

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ($\sigma-t$)	Chlor ($\mu\text{g/L}$)
I35	03 Aug 2016	19	15.96	80.64	6.6	33.40	8.1	24.5	1.60
I36	03 Aug 2016	1	22.93	77.47	8.0	33.53	8.3	22.8	1.04
I36	03 Aug 2016	2	22.91	77.46	8.0	33.53	8.3	22.8	1.19
I36	03 Aug 2016	3	22.82	77.42	8.0	33.53	8.3	22.9	1.36
I36	03 Aug 2016	4	22.79	77.23	8.0	33.53	8.3	22.9	1.47
I36	03 Aug 2016	5	22.78	77.42	7.9	33.53	8.3	22.9	2.17
I36	03 Aug 2016	6	22.65	77.19	8.0	33.51	8.3	22.9	2.80
I36	03 Aug 2016	7	21.51	75.80	7.1	33.48	8.3	23.2	3.64
I36	03 Aug 2016	8	20.23	74.13	5.6	33.42	8.2	23.5	3.90
I36	03 Aug 2016	9	19.02	71.82	5.3	33.40	8.2	23.8	4.28
I36	03 Aug 2016	10	18.43	71.92	5.2	33.41	8.1	23.9	4.46
I36	03 Aug 2016	11	17.83	68.36	5.2	33.40	8.0	24.1	4.40
I37	03 Aug 2016	1	21.17	77.31	7.7	33.55	8.2	23.3	2.04
I37	03 Aug 2016	2	20.98	77.05	7.6	33.54	8.2	23.4	2.52
I37	03 Aug 2016	3	19.94	76.95	7.8	33.52	8.2	23.7	2.93
I37	03 Aug 2016	4	19.30	76.79	7.8	33.49	8.2	23.8	3.30
I37	03 Aug 2016	5	19.15	76.70	7.5	33.48	8.2	23.8	3.43
I37	03 Aug 2016	6	18.33	76.67	7.2	33.45	8.2	24.0	3.25
I37	03 Aug 2016	7	17.64	76.96	7.1	33.41	8.2	24.1	3.01
I37	03 Aug 2016	8	16.83	78.33	7.3	33.41	8.1	24.3	3.02
I37	03 Aug 2016	9	16.80	78.93	7.3	33.40	8.1	24.3	3.03
I37	03 Aug 2016	10	16.79	78.97	7.3	33.40	8.1	24.3	3.01
I37	03 Aug 2016	11	16.79	78.84	7.3	33.40	8.1	24.3	3.09
I37	03 Aug 2016	12	16.76	78.67	7.3	33.41	8.1	24.3	3.00
I38	03 Aug 2016	1	23.01	79.38	8.0	33.54	8.3	22.8	0.69
I38	03 Aug 2016	2	22.92	79.31	7.9	33.54	8.3	22.8	0.83
I38	03 Aug 2016	3	22.60	79.40	8.0	33.53	8.3	22.9	1.43
I38	03 Aug 2016	4	21.95	77.76	8.4	33.47	8.3	23.1	1.89
I38	03 Aug 2016	5	20.70	76.54	8.4	33.45	8.3	23.4	2.56
I38	03 Aug 2016	6	20.07	76.49	7.8	33.44	8.3	23.6	3.31
I38	03 Aug 2016	7	19.33	75.32	6.8	33.42	8.2	23.7	3.67
I38	03 Aug 2016	8	18.45	74.98	5.6	33.39	8.2	23.9	3.55
I38	03 Aug 2016	9	17.60	74.80	5.8	33.41	8.1	24.1	3.59
I38	03 Aug 2016	10	17.50	75.76	6.0	33.41	8.1	24.2	3.46
I38	03 Aug 2016	11	17.49	75.72	6.1	33.41	8.0	24.2	3.33

NA = not available

APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Enter
I3	02 Aug 2016	18	ZV	LAB DUPLICATE	<2	<2	<2
I9	02 Aug 2016	27	SR	LAB DUPLICATE	<2	<2	<2
I12	04 Aug 2016	18	SR	LAB DUPLICATE	<2	<2	<2
I13	02 Aug 2016	18	SR	LAB DUPLICATE	<2	<2	<2
I14	04 Aug 2016	2	JT	LAB DUPLICATE	<2	<2	<2
I16	04 Aug 2016	18	JT	LAB DUPLICATE	<2	<2	<2
I19	04 Aug 2016	6	SR	FIELD DUPLICATE	2e	ns	ns
I19	04 Aug 2016	6	ZV	FIELD DUPLICATE	ns	<2	<2
I19	04 Aug 2016	6	ZV	LAB DUPLICATE	<20	<2	<2
I19	11 Aug 2016	6	SR	LAB DUPLICATE	<2	ns	ns
I19	11 Aug 2016	6	ZV	LAB DUPLICATE	ns	<2	<2
I19	24 Aug 2016	6	ZV	LAB DUPLICATE	<2	<2	<2
I19	27 Aug 2016	6	LMA	LAB DUPLICATE	<2	<2	<2
I19	30 Aug 2016	6	LMA	LAB DUPLICATE	ns	<2	ns
I19	30 Aug 2016	6	LO	LAB DUPLICATE	6e	ns	2e
I20	02 Aug 2016	55	SR	LAB DUPLICATE	<2	<2	<2
I32	03 Aug 2016	9	ZV	LAB DUPLICATE	2e	<2	<2
I36	03 Aug 2016	11	ZV	LAB DUPLICATE	6e	<2	<2
I40	11 Aug 2016	6	SR	LAB DUPLICATE	<2	ns	ns
I40	11 Aug 2016	6	ZV	LAB DUPLICATE	ns	<2	<2
I40	24 Aug 2016	6	ZV	LAB DUPLICATE	<2	<2	<2
I40	27 Aug 2016	6	LMA	LAB DUPLICATE	<2	<2	<2
I40	30 Aug 2016	6	LMA	LAB DUPLICATE	ns	<2	ns
I40	30 Aug 2016	6	LO	LAB DUPLICATE	<2	ns	<2
S12	02 Aug 2016		ZV	FIELD DUPLICATE	40e	6e	8e
S12	02 Aug 2016		ZV	LAB DUPLICATE	20e	4e	16e
S12	09 Aug 2016		SR	FIELD DUPLICATE	20e	4e	<2
S12	09 Aug 2016		SR	LAB DUPLICATE	20e	2e	2e
S12	16 Aug 2016		ZV	FIELD DUPLICATE	<20	<20	<2
S12	16 Aug 2016		ZV	LAB DUPLICATE	<20	<2	<2
S12	23 Aug 2016		LMA	FIELD DUPLICATE	20e	16e	2e
S12	23 Aug 2016		LMA	LAB DUPLICATE	40e	6e	<2
S12	30 Aug 2016		LMA	FIELD DUPLICATE	20e	10e	4e
S12	30 Aug 2016		LMA	LAB DUPLICATE	<20	8e	4e

ns = not sampled

ND = no data

