



MONTHLY RECEIVING WATERS MONITORING REPORT FOR THE SOUTH BAY OCEAN OUTFALL

(SOUTH BAY WATER RECLAMATION PLANT)
NPDES PERMIT No. CA 0109045

FEBRUARY 2016

CITY OF SAN DIEGO
OCEAN MONITORING PROGRAM
PUBLIC UTILITIES DEPARTMENT
ENVIRONMENTAL MONITORING AND TECHNICAL SERVICES DIVISION



THE CITY OF SAN DIEGO

March 31, 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 February 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,

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

TDS/ger

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

INTRODUCTION

Monthly reports of water quality and ocean conditions from Playa Blanco, Mexico to Coronado, USA are submitted to the San Diego Regional Water Quality Control Board and U.S. EPA Region 9 in accordance with Order No. R9-2013-0006, 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 Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013.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 on a weekly basis 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, Seasoftware, 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 chromomorphogenic 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 February, six of the eight shore stations located north of the border were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards (see below); these standards do not apply to stations located in Mexican waters.
 - The 30-day geometric mean standard for total coliforms was exceeded at stations S5 and S10 on multiple days during the month.
 - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S4, S5, S6, S10, S11, and S12 on multiple days during the month.

- The 30-day geometric mean standard for fecal coliforms was exceeded at stations S5 and S10 on multiple days during the month.
- The single sample maximum (SSM) standards for total coliforms, fecal coliforms, *Enterococcus*, and the SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1, were exceeded at stations S4, S5 and S10 on one or more days during the month.
- Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected at stations S0 and S3 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 February included: a sewage-like odor at stations S4, S5 and S10 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 February (i.e. February 4, 10, 11, 20, 23, 29).
- During February, four of the seven stations were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards (see below).
 - The SSM standards for total coliforms, fecal coliforms, and *Enterococcus* were exceeded at stations I24, I25 and I40 on one or more days during the month.
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at station I39 on February 10.
- Water column temperatures ranged from 14.51 to 17.08°C. The difference between surface and bottom waters ranged from approximately 0.02 to 1.59°C, indicating the water column was stratified at some of these sites during the month.
- Chlorophyll *a* concentrations ranged from 0.36 to 5.18 µg/L at these stations, suggesting the presence of phytoplankton blooms during the month.
- Suspended solid values ranged from 3.5 to 24.8 mg/L in February. Elevated levels of suspended solids (i.e., values ≥ 8 mg/L) occurred in seawater samples collected at stations I19 (2 m and 11 m depth), I24 (11 m depth), I25 (9 m depth) and I39 (18 m depth).
- Oil and grease values were < 0.2 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**

- o Quarterly offshore water quality sampling was conducted over three days during the month (i.e., February 9, 10, 11).
- o All of the offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standards.
- o Although the Ocean Plan standards do not apply to this station, 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 seawater samples collected at station I5 on February 9.
- o Water column temperatures ranged from 13.79 to 16.02°C at the offshore sites. The difference between surface and bottom waters ranged from 0.14 to 1.8°C, indicating that the water column was stratified at some of the offshore stations during the month.
- o Chlorophyll *a* concentrations ranged from 0.62 to 7.87 µg/L at the offshore sites, suggesting the presence of phytoplankton blooms during the month.
- o CDOM data are available upon request.
- o Suspended solid values ranged from 0.2 to 9.6 mg/L in February. Elevated levels of suspended solids (i.e., values ≥ 8 mg/L) occurred in seawater samples collected from stations I5 (11 m depth), I12 (27 m depth), I14 (27 m depth) and I16 (27 m depth).
- o Oil and grease values were < 0.2 mg/L in all offshore seawater samples.
- o Nothing of sewage origin was observed at any of the offshore stations.

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TABLES AND FIGURES

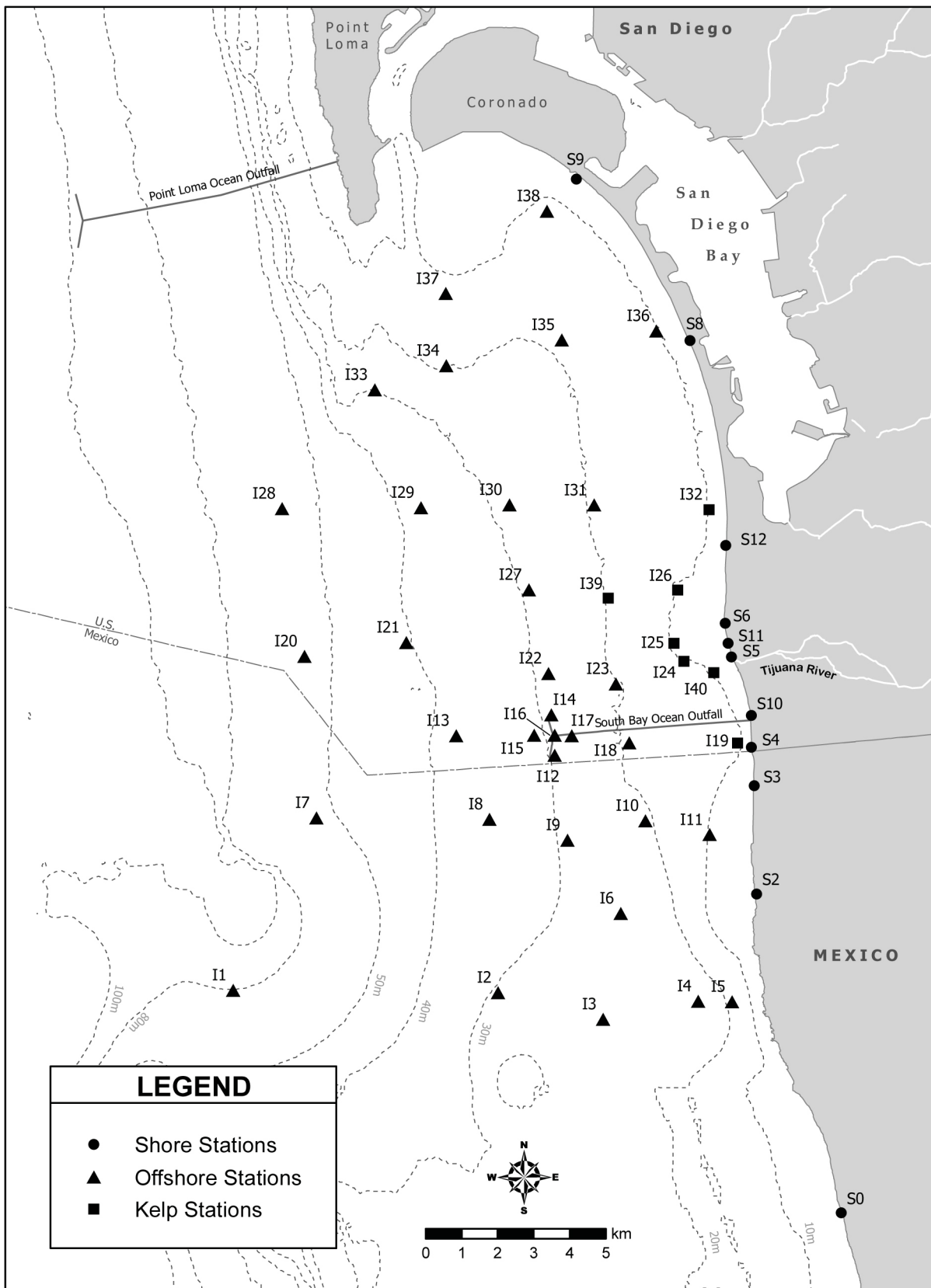


Figure 1.1 Station Map

Shore Stations

Table 2.1

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2016	372	691	162	122	75	511	332	350
02 Feb 2016	697	1167	144	90	41	786	234	167
03 Feb 2016	697	1167	144	90	41	786	234	167
04 Feb 2016	589	1167	56	46	17	885	128	78
05 Feb 2016	589	1696	56	46	17	1221	128	78
06 Feb 2016	431	1470	19	13	11*	885	75	27
07 Feb 2016	431	2068	19*	13*	11*	885	44	9*
08 Feb 2016	431	2068	19*	13*	11*	885	44	9*
09 Feb 2016	574	1684	19	14	13	1224	19	7
10 Feb 2016	574	1684	19	14	13	1224	19	7
11 Feb 2016	617	2252	16*	13*	11*	2588	15*	4*
12 Feb 2016	617	2252	16*	13*	11*	3169	15*	4*
13 Feb 2016	617	2252	16*	13*	11*	3169	15*	4*
14 Feb 2016	617	2252	16*	13*	11*	2700	15*	4*
15 Feb 2016	617	2252	16*	13*	11*	2700	15*	4*
16 Feb 2016	335	1248	14	9	8	1841	16	3
17 Feb 2016	335	1248	14	9	8	1841	16	3
18 Feb 2016	590	1007	13*	6*	6*	2593	15*	4*
19 Feb 2016	590	1007	13*	6*	6*	2593	15*	4*
20 Feb 2016	590	1007	13*	6*	6*	2593	15*	4*
21 Feb 2016	590	1007	13*	6*	6*	2593	15*	4*
22 Feb 2016	590	1007	13*	6*	6*	2593	15*	4*
23 Feb 2016	288	463	9	5	5	1352	10	3
24 Feb 2016	288	463	9	5	5	1352	10	3
25 Feb 2016	491	1007	13*	6*	4*	2593	12*	2*
26 Feb 2016	491	1007	13*	6*	4*	2593	12*	2*
27 Feb 2016	491	1007	13*	6*	4*	2593	12*	2*
28 Feb 2016	491	1007	13*	6*	4*	2593	12*	2*
29 Feb 2016	491	1007	13*	6*	4*	2593	12*	2*

* 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 Feb 2016	34	75	42	18	6	181	74	89
02 Feb 2016	75	150	25	13	5	257	54	52
03 Feb 2016	75	150	25	13	5	257	54	52
04 Feb 2016	47	150	7	8	2	297	25	22
05 Feb 2016	47	266	7	8	2	309	25	22
06 Feb 2016	38	341	3	3	2*	205	16	9
07 Feb 2016	38	364	3*	2*	2*	126	10	5*
08 Feb 2016	38	364	3*	2*	2*	126	10	5*
09 Feb 2016	24	273	3	2	2	129	4	4
10 Feb 2016	24	273	3	2	2	129	4	4
11 Feb 2016	24	437	2*	2*	2*	186	3*	2*
12 Feb 2016	24	437	2*	2*	2*	186	3*	2*
13 Feb 2016	24	437	2*	2*	2*	186	3*	2*
14 Feb 2016	24	437	2*	2*	2*	186	3*	2*
15 Feb 2016	24	437	2*	2*	2*	186	3*	2*
16 Feb 2016	16	223	2	2	2	106	2	2
17 Feb 2016	16	223	2	2	2	106	2	2
18 Feb 2016	19	234	2*	2*	2*	148	3*	2*
19 Feb 2016	19	234	2*	2*	2*	148	3*	2*
20 Feb 2016	19	234	2*	2*	2*	148	3*	2*
21 Feb 2016	19	234	2*	2*	2*	148	3*	2*
22 Feb 2016	19	234	2*	2*	2*	148	3*	2*
23 Feb 2016	13	129	2	2	2	86	2	2
24 Feb 2016	13	129	2	2	2	86	2	2
25 Feb 2016	19	234	2*	2*	2*	148	3*	2*
26 Feb 2016	19	234	2*	2*	2*	148	3*	2*
27 Feb 2016	19	234	2*	2*	2*	148	3*	2*
28 Feb 2016	19	234	2*	2*	2*	148	3*	2*
29 Feb 2016	19	234	2*	2*	2*	148	3*	2*

* 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 Feb 2016	194	176	94	22	11	221	116	117
02 Feb 2016	277	284	67	21	8	378	70	71
03 Feb 2016	277	284	67	21	8	378	70	71
04 Feb 2016	219	284	34	15	4	447	33	38
05 Feb 2016	246	412	34	15	4	471	33	38
06 Feb 2016	207	366	20	6	2*	314	18	17
07 Feb 2016	119	443	11	3*	2*	206	9	8
08 Feb 2016	119	443	11	3*	2*	206	9	8
09 Feb 2016	95	385	7	3	3	246	4	3
10 Feb 2016	95	385	7	3	3	246	4	3
11 Feb 2016	104	508	5*	3*	2*	286	2*	2*
12 Feb 2016	104	508	5*	3*	2*	286	2*	2*
13 Feb 2016	104	508	5*	3*	2*	286	2*	2*
14 Feb 2016	104	508	5*	3*	2*	286	2*	2*
15 Feb 2016	104	508	5*	3*	2*	286	2*	2*
16 Feb 2016	63	335	4	3	2	208	2	2
17 Feb 2016	63	335	4	3	2	208	2	2
18 Feb 2016	74	374	5*	3*	2*	278	2*	2*
19 Feb 2016	74	374	5*	3*	2*	278	2*	2*
20 Feb 2016	74	514	5*	3*	2*	278	2*	2*
21 Feb 2016	74	514	5*	3*	2*	278	2*	2*
22 Feb 2016	74	514	5*	3*	2*	278	2*	2*
23 Feb 2016	61	257	4	3	2	161	2	2
24 Feb 2016	61	257	4	3	2	161	2	2
25 Feb 2016	90	439	5*	3*	2*	243	2*	2*
26 Feb 2016	90	439	5*	3*	2*	243	2*	2*
27 Feb 2016	90	439	5*	3*	2*	243	2*	2*
28 Feb 2016	90	439	5*	3*	2*	243	2*	2*
29 Feb 2016	90	439	5*	3*	2*	243	2*	2*

* 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 Feb 2016	E	E	IC	IC	IC	E	IC	IC
04 Feb 2016	IC	E	ns	ns	ns	E	ns	ns
05 Feb 2016	ns	E	ns	ns	ns	E	ns	ns
07 Feb 2016	ns	E	ns	ns	ns	E	ns	ns
09 Feb 2016	IC	IC	IC	IC	IC	E	IC	IC
11 Feb 2016	ns	ns	ns	ns	ns	E	ns	ns
12 Feb 2016	ns	ns	ns	ns	ns	E	ns	ns
14 Feb 2016	ns	ns	ns	ns	ns	IC	ns	ns
16 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Feb 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 Feb 2016	E	E	IC	IC	IC	E	IC	IC
04 Feb 2016	IC	E	ns	ns	ns	E	ns	ns
05 Feb 2016	ns	E	ns	ns	ns	E	ns	ns
07 Feb 2016	ns	E	ns	ns	ns	IC	ns	ns
09 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Feb 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 Feb 2016	E	E	IC	IC	IC	E	IC	IC
04 Feb 2016	E	E	ns	ns	ns	E	ns	ns
05 Feb 2016	E	E	ns	ns	ns	E	ns	ns
07 Feb 2016	E	E	ns	ns	ns	E	ns	ns
09 Feb 2016	IC	IC	IC	IC	IC	E	IC	IC
11 Feb 2016	ns	ns	ns	ns	ns	IC	ns	ns
16 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Feb 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 Feb 2016	E	E	IC	IC	IC	E	IC	IC
04 Feb 2016	IC	E	ns	ns	ns	E	ns	ns
05 Feb 2016	ns	E	ns	ns	ns	IC	ns	ns
07 Feb 2016	ns	IC	ns	ns	ns	IC	ns	ns
09 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
16 Feb 2016	IC	IC	IC	IC	IC	IC	IC	IC
23 Feb 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* (Entero) 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	Entero	F:T
S0	02 Feb 2016	1110	10000	360e	560	0.0360
S0	09 Feb 2016	1110	4200	320e	760	0.0762
S0	16 Feb 2016	1135	60e	6e	30e	0.1000
S0	23 Feb 2016	1120	<200	290e	<200	1.4500
S2	02 Feb 2016	1025	2400e	62	48	0.0258
S2	09 Feb 2016	1005	20e	<2	<2	0.1000
S2	16 Feb 2016	1016	<2	<2	<2	1.0000
S2	23 Feb 2016	1005	2e	<2	<2	1.0000
S3	02 Feb 2016	955	>16000	1800e	2600e	0.1125
S3	09 Feb 2016	935	9400	440	160e	0.0468
S3	16 Feb 2016	936	20e	<2	<2	0.1000
S3	23 Feb 2016	930	12e	<2	4e	0.1667
S4	02 Feb 2016	1042	>16000	4000	3400e	0.2500
S4	04 Feb 2016	930	5800	80e	360e	0.0138
S4	05 Feb 2016	1050	ns	ns	620	ns
S4	07 Feb 2016	911	ns	ns	140e	ns
S4	09 Feb 2016	1211	2400e	<2	14e	0.0008
S4	16 Feb 2016	832	16e	<2	<2	0.1250
S4	23 Feb 2016	819	8e	2e	16e	0.2500
S5	02 Feb 2016	1300	>16000	5000	13000e	0.3125
S5	04 Feb 2016	1044	>16000	12000	>12000	0.7500
S5	05 Feb 2016	1003	>16000	8200	>12000	0.5125
S5	07 Feb 2016	1004	>16000	540	880	0.0338
S5	09 Feb 2016	1040	400	36e	80	0.0900
S5	16 Feb 2016	958	<20	<2	12e	0.1000
S5	23 Feb 2016	951	<2	2e	<2	1.0000
S6	02 Feb 2016	1240	80e	2e	6e	0.0250
S6	09 Feb 2016	1059	<20	2e	18e	0.1000
S6	16 Feb 2016	945	8e	4e	<2	0.5000
S6	23 Feb 2016	935	<2	<2	<2	1.0000
S8	02 Feb 2016	1348	<20	<2	16e	0.1000
S8	09 Feb 2016	942	<20	<2	<2	0.1000
S8	16 Feb 2016	1124	<2	<2	<2	1.0000
S8	23 Feb 2016	1101	<2	2e	<2	1.0000
S9	02 Feb 2016	1410	<2	<2	<2	1.0000
S9	09 Feb 2016	915	20e	<2	4e	0.1000
S9	16 Feb 2016	1150	<2	<2	<2	1.0000
S9	23 Feb 2016	1125	<2	<2	<2	1.0000
S10	02 Feb 2016	1057	>16000	3000e	16000e	0.1875
S10	04 Feb 2016	942	>16000	3200e	3000e	0.2000
S10	05 Feb 2016	1058	>16000	420	720	0.0262

Station	Date	Time	Total	Fecal	Entero	F:T
S10	07 Feb 2016	918	>16000	240e	400	0.0150
S10	09 Feb 2016	1219	>16000	400	680	0.0250
S10	11 Feb 2016	1017	>16000	ns	40e	ns
S10	12 Feb 2016	857	>16000	ns	ns	ns
S10	14 Feb 2016	934	640	ns	ns	ns
S10	16 Feb 2016	841	40e	2e	16e	0.0500
S10	23 Feb 2016	826	2e	<2	2e	1.0000
S11	02 Feb 2016	1245	20e	6e	2e	0.3000
S11	09 Feb 2016	1050	28e	<2	<2	0.0714
S11	16 Feb 2016	950	<20	<2	<2	0.1000
S11	23 Feb 2016	942	<2	<2	<2	1.0000
S12	02 Feb 2016	1225	2e	<2	<2	1.0000
S12	09 Feb 2016	1015	<2	<2	2e	1.0000
S12	16 Feb 2016	926	<2	<2	<2	1.0000
S12	23 Feb 2016	913	2e	<2	<2	1.0000

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S5	04 Feb 2016			Resample
S4	04 Feb 2016			Resample
S10	04 Feb 2016			Resample
S10	05 Feb 2016			Resample
S5	05 Feb 2016			Resample
S4	05 Feb 2016			Resample
S4	07 Feb 2016			Resample
S5	07 Feb 2016			Resample
S10	07 Feb 2016			Resample
S10	11 Feb 2016			Resample
S10	12 Feb 2016			Resample
S10	14 Feb 2016			Resample

Table 2.9

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

Station	Date	Parameter	Value
S0	02 Feb 2016	Arrive Time	1110
S0	02 Feb 2016	Weather	Sunny
S0	02 Feb 2016	Wind Speed (kts)	2.2
S0	02 Feb 2016	Wind Dir	NE
S0	02 Feb 2016	Animal Life	5 Shorebirds
S0	02 Feb 2016	Floatables	None
S0	02 Feb 2016	Water Color	Green
S0	02 Feb 2016	Current Direction	NE
S0	02 Feb 2016	Water Temp (C)	15.5
S0	02 Feb 2016	Wave Height Low (ft)	4
S0	02 Feb 2016	High Tide (ft)	2.8
S0	02 Feb 2016	High Tide Time	1753
S0	02 Feb 2016	Low Tide (ft)	0.9
S0	02 Feb 2016	Low Tide Time	1142
S0	02 Feb 2016	Comments	Kelp; 20 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S0	09 Feb 2016	Arrive Time	1110
S0	09 Feb 2016	Weather	Sunny
S0	09 Feb 2016	Wind Speed (kts)	3.3
S0	09 Feb 2016	Wind Dir	NE
S0	09 Feb 2016	Animal Life	5 Shorebirds
S0	09 Feb 2016	Floatables	None
S0	09 Feb 2016	Water Color	Green
S0	09 Feb 2016	Current Direction	NE
S0	09 Feb 2016	Water Temp (C)	16.5
S0	09 Feb 2016	Wave Height Low (ft)	5
S0	09 Feb 2016	High Tide (ft)	6.1
S0	09 Feb 2016	High Tide Time	905
S0	09 Feb 2016	Low Tide (ft)	-1.2
S0	09 Feb 2016	Low Tide Time	1555
S0	09 Feb 2016	Comments	Kelp; Water clear; Flow stormdrain 0.5 L/sec
S0	16 Feb 2016	Arrive Time	1135
S0	16 Feb 2016	Weather	Sunny
S0	16 Feb 2016	Wind Speed (kts)	3.8
S0	16 Feb 2016	Wind Dir	NW
S0	16 Feb 2016	Animal Life	5 Shorebirds
S0	16 Feb 2016	Floatables	None
S0	16 Feb 2016	Water Color	Green
S0	16 Feb 2016	Current Direction	N
S0	16 Feb 2016	Water Temp (C)	18
S0	16 Feb 2016	Wave Height Low (ft)	4
S0	16 Feb 2016	High Tide (ft)	3.1
S0	16 Feb 2016	High Tide Time	1743
S0	16 Feb 2016	Low Tide (ft)	0.2
S0	16 Feb 2016	Low Tide Time	1117
S0	16 Feb 2016	Comments	Kelp; 3 Persons; 2 Surfers; Water clear; Flow from stormdrain 0.5 L/sec
S0	23 Feb 2016	Arrive Time	1120
S0	23 Feb 2016	Weather	Sunny

Station	Date	Parameter	Value
S0	23 Feb 2016	Wind Speed (kts)	3
S0	23 Feb 2016	Wind Dir	SE
S0	23 Feb 2016	Animal Life	5 Shorebirds
S0	23 Feb 2016	Floatables	None
S0	23 Feb 2016	Water Color	Green
S0	23 Feb 2016	Current Direction	N
S0	23 Feb 2016	Water Temp (C)	16
S0	23 Feb 2016	Wave Height Low (ft)	3
S0	23 Feb 2016	High Tide (ft)	5.3
S0	23 Feb 2016	High Tide Time	903
S0	23 Feb 2016	Low Tide (ft)	-0.4
S0	23 Feb 2016	Low Tide Time	1541
S0	23 Feb 2016	Comments	Water clear; Flow from stormdrain 0.5 L/sec
S2	02 Feb 2016	Arrive Time	1025
S2	02 Feb 2016	Weather	Sunny
S2	02 Feb 2016	Wind Speed (kts)	3.6
S2	02 Feb 2016	Wind Dir	NE
S2	02 Feb 2016	Animal Life	15 Shorebirds; 1 Dog
S2	02 Feb 2016	Floatables	None
S2	02 Feb 2016	Water Color	Green
S2	02 Feb 2016	Current Direction	NE
S2	02 Feb 2016	Water Temp (C)	15
S2	02 Feb 2016	Wave Height Low (ft)	4
S2	02 Feb 2016	High Tide (ft)	4.3
S2	02 Feb 2016	High Tide Time	404
S2	02 Feb 2016	Low Tide (ft)	0.9
S2	02 Feb 2016	Low Tide Time	1142
S2	02 Feb 2016	Comments	Kelp; Algae; 1 Person; Water clear; No flow from stormdrain
S2	09 Feb 2016	Arrive Time	1005
S2	09 Feb 2016	Weather	Sunny
S2	09 Feb 2016	Wind Speed (kts)	0.9
S2	09 Feb 2016	Wind Dir	NE
S2	09 Feb 2016	Animal Life	5 Shorebirds; 1 Seal
S2	09 Feb 2016	Floatables	None
S2	09 Feb 2016	Water Color	Green
S2	09 Feb 2016	Current Direction	NE
S2	09 Feb 2016	Water Temp (C)	16.5
S2	09 Feb 2016	Wave Height Low (ft)	5
S2	09 Feb 2016	High Tide (ft)	6.1
S2	09 Feb 2016	High Tide Time	905
S2	09 Feb 2016	Low Tide (ft)	-1.2
S2	09 Feb 2016	Low Tide Time	1555
S2	09 Feb 2016	Comments	Kelp; Water clear; No flow from stormdrain
S2	16 Feb 2016	Arrive Time	1016
S2	16 Feb 2016	Weather	Sunny
S2	16 Feb 2016	Wind Speed (kts)	5.2
S2	16 Feb 2016	Wind Dir	NW
S2	16 Feb 2016	Animal Life	>200 Shorebirds; 3 Dolphins
S2	16 Feb 2016	Floatables	None
S2	16 Feb 2016	Water Color	Green
S2	16 Feb 2016	Current Direction	N
S2	16 Feb 2016	Water Temp (C)	18

Station	Date	Parameter	Value
S2	16 Feb 2016	Wave Height Low (ft)	4
S2	16 Feb 2016	High Tide (ft)	4.9
S2	16 Feb 2016	High Tide Time	339
S2	16 Feb 2016	Low Tide (ft)	0.2
S2	16 Feb 2016	Low Tide Time	1117
S2	16 Feb 2016	Comments	Kelp; 3 Persons; 1 Surfer; Water clear; No flow from stormdrain
S2	23 Feb 2016	Arrive Time	1005
S2	23 Feb 2016	Weather	Partly Cloudy
S2	23 Feb 2016	Wind Speed (kts)	6
S2	23 Feb 2016	Wind Dir	SE
S2	23 Feb 2016	Animal Life	5 Shorebirds; 3 Dogs
S2	23 Feb 2016	Floatables	None
S2	23 Feb 2016	Water Color	Green
S2	23 Feb 2016	Current Direction	N
S2	23 Feb 2016	Water Temp (C)	16
S2	23 Feb 2016	Wave Height Low (ft)	3
S2	23 Feb 2016	High Tide (ft)	5.3
S2	23 Feb 2016	High Tide Time	903
S2	23 Feb 2016	Low Tide (ft)	-0.4
S2	23 Feb 2016	Low Tide Time	1541
S2	23 Feb 2016	Comments	Kelp; 4 Persons; Water clear; No flow from stormdrain
S3	02 Feb 2016	Arrive Time	955
S3	02 Feb 2016	Weather	Sunny
S3	02 Feb 2016	Wind Speed (kts)	3.6
S3	02 Feb 2016	Wind Dir	NE
S3	02 Feb 2016	Animal Life	5 Shorebirds; 1 Dog
S3	02 Feb 2016	Floatables	None
S3	02 Feb 2016	Water Color	Green
S3	02 Feb 2016	Current Direction	NE
S3	02 Feb 2016	Water Temp (C)	15
S3	02 Feb 2016	Wave Height Low (ft)	4
S3	02 Feb 2016	High Tide (ft)	4.3
S3	02 Feb 2016	High Tide Time	404
S3	02 Feb 2016	Low Tide (ft)	0.9
S3	02 Feb 2016	Low Tide Time	1142
S3	02 Feb 2016	Comments	Kelp; Algae; 2 Persons; Water clear; No flow from stormdrain
S3	09 Feb 2016	Arrive Time	935
S3	09 Feb 2016	Weather	Sunny
S3	09 Feb 2016	Wind Speed (kts)	2.5
S3	09 Feb 2016	Wind Dir	NE
S3	09 Feb 2016	Animal Life	5 Shorebirds
S3	09 Feb 2016	Floatables	None
S3	09 Feb 2016	Water Color	Green
S3	09 Feb 2016	Current Direction	NE
S3	09 Feb 2016	Water Temp (C)	16.5
S3	09 Feb 2016	Wave Height Low (ft)	5
S3	09 Feb 2016	High Tide (ft)	6.1
S3	09 Feb 2016	High Tide Time	905
S3	09 Feb 2016	Low Tide (ft)	-1.2
S3	09 Feb 2016	Low Tide Time	1555
S3	09 Feb 2016	Comments	Kelp; Water clear; No flow from stormdrain

Station	Date	Parameter	Value
S3	16 Feb 2016	Arrive Time	936
S3	16 Feb 2016	Weather	Sunny
S3	16 Feb 2016	Wind Speed (kts)	0.5
S3	16 Feb 2016	Wind Dir	NW
S3	16 Feb 2016	Animal Life	5 Shorebirds
S3	16 Feb 2016	Floatables	None
S3	16 Feb 2016	Water Color	Green
S3	16 Feb 2016	Current Direction	NW
S3	16 Feb 2016	Water Temp (C)	17
S3	16 Feb 2016	Wave Height Low (ft)	4
S3	16 Feb 2016	High Tide (ft)	4.9
S3	16 Feb 2016	High Tide Time	339
S3	16 Feb 2016	Low Tide (ft)	0.2
S3	16 Feb 2016	Low Tide Time	1117
S3	16 Feb 2016	Comments	Kelp; Water clear; No flow from stormdrain
S3	23 Feb 2016	Arrive Time	930
S3	23 Feb 2016	Weather	Sunny
S3	23 Feb 2016	Wind Speed (kts)	6.5
S3	23 Feb 2016	Wind Dir	SE
S3	23 Feb 2016	Animal Life	5 Shorebirds
S3	23 Feb 2016	Floatables	None
S3	23 Feb 2016	Water Color	Green
S3	23 Feb 2016	Current Direction	N
S3	23 Feb 2016	Water Temp (C)	16
S3	23 Feb 2016	Wave Height Low (ft)	3
S3	23 Feb 2016	High Tide (ft)	5.3
S3	23 Feb 2016	High Tide Time	903
S3	23 Feb 2016	Low Tide (ft)	-0.4
S3	23 Feb 2016	Low Tide Time	1541
S3	23 Feb 2016	Comments	Water clear; No flow from stormdrain
S4	02 Feb 2016	Arrive Time	1042
S4	02 Feb 2016	Weather	Sunny
S4	02 Feb 2016	Wind Speed (kts)	2.7
S4	02 Feb 2016	Wind Dir	W
S4	02 Feb 2016	Animal Life	1 Bird
S4	02 Feb 2016	Floatables	None
S4	02 Feb 2016	Water Color	Green
S4	02 Feb 2016	Current Direction	S
S4	02 Feb 2016	Water Temp (C)	15.2
S4	02 Feb 2016	Wave Height Low (ft)	4
S4	02 Feb 2016	High Tide (ft)	4.3
S4	02 Feb 2016	High Tide Time	404
S4	02 Feb 2016	Low Tide (ft)	0.9
S4	02 Feb 2016	Low Tide Time	1142
S4	02 Feb 2016	Comments	Sewage-like odor; Water clear
S4	04 Feb 2016	Arrive Time	930
S4	04 Feb 2016	Weather	Sunny
S4	04 Feb 2016	Wind Speed (kts)	5.8
S4	04 Feb 2016	Wind Dir	NE
S4	04 Feb 2016	Animal Life	None
S4	04 Feb 2016	Floatables	None
S4	04 Feb 2016	Water Color	Green

Station	Date	Parameter	Value
S4	04 Feb 2016	Current Direction	S
S4	04 Feb 2016	Water Temp (C)	15.6
S4	04 Feb 2016	Wave Height Low (ft)	2
S4	04 Feb 2016	High Tide (ft)	5.1
S4	04 Feb 2016	High Tide Time	543
S4	04 Feb 2016	Low Tide (ft)	-0.2
S4	04 Feb 2016	Low Tide Time	1302
S4	04 Feb 2016	Comments	Sewage-like odor; Water clear
S4	05 Feb 2016	Arrive Time	1050
S4	05 Feb 2016	Weather	Sunny
S4	05 Feb 2016	Wind Speed (kts)	5
S4	05 Feb 2016	Wind Dir	NW
S4	05 Feb 2016	Animal Life	None
S4	05 Feb 2016	Floatables	None
S4	05 Feb 2016	Water Color	Green
S4	05 Feb 2016	Current Direction	S
S4	05 Feb 2016	Water Temp (C)	14.6
S4	05 Feb 2016	Wave Height Low (ft)	4
S4	05 Feb 2016	High Tide (ft)	5.5
S4	05 Feb 2016	High Tide Time	625
S4	05 Feb 2016	Low Tide (ft)	-0.6
S4	05 Feb 2016	Low Tide Time	1336
S4	05 Feb 2016	Comments	Seagrass; Sewage-like odor; Water clear
S4	07 Feb 2016	Arrive Time	911
S4	07 Feb 2016	Weather	Sunny
S4	07 Feb 2016	Wind Speed (kts)	8.3
S4	07 Feb 2016	Wind Dir	N
S4	07 Feb 2016	Animal Life	None
S4	07 Feb 2016	Floatables	None
S4	07 Feb 2016	Water Color	Green
S4	07 Feb 2016	Current Direction	S
S4	07 Feb 2016	Water Temp (C)	14.2
S4	07 Feb 2016	Wave Height Low (ft)	4
S4	07 Feb 2016	High Tide (ft)	6.1
S4	07 Feb 2016	High Tide Time	744
S4	07 Feb 2016	Low Tide (ft)	-1.2
S4	07 Feb 2016	Low Tide Time	1444
S4	07 Feb 2016	Comments	Kelp; Seagrass; Water clear
S4	09 Feb 2016	Arrive Time	1211
S4	09 Feb 2016	Weather	Sunny
S4	09 Feb 2016	Wind Speed (kts)	1
S4	09 Feb 2016	Wind Dir	S
S4	09 Feb 2016	Animal Life	None
S4	09 Feb 2016	Floatables	None
S4	09 Feb 2016	Water Color	Green
S4	09 Feb 2016	Current Direction	S
S4	09 Feb 2016	Water Temp (C)	16.8
S4	09 Feb 2016	Wave Height Low (ft)	3
S4	09 Feb 2016	High Tide (ft)	6.1
S4	09 Feb 2016	High Tide Time	905
S4	09 Feb 2016	Low Tide (ft)	-1.2
S4	09 Feb 2016	Low Tide Time	1555

Station	Date	Parameter	Value
S4	09 Feb 2016	Comments	Sewage-like odor; Water clear
S4	16 Feb 2016	Arrive Time	832
S4	16 Feb 2016	Weather	Sunny
S4	16 Feb 2016	Wind Speed (kts)	6.7
S4	16 Feb 2016	Wind Dir	E
S4	16 Feb 2016	Animal Life	None
S4	16 Feb 2016	Floatables	None
S4	16 Feb 2016	Water Color	Green
S4	16 Feb 2016	Current Direction	S
S4	16 Feb 2016	Water Temp (C)	18
S4	16 Feb 2016	Wave Height Low (ft)	3
S4	16 Feb 2016	High Tide (ft)	4.9
S4	16 Feb 2016	High Tide Time	339
S4	16 Feb 2016	Low Tide (ft)	0.2
S4	16 Feb 2016	Low Tide Time	1117
S4	16 Feb 2016	Comments	Seagrass; Water clear
S4	23 Feb 2016	Arrive Time	819
S4	23 Feb 2016	Weather	Partly Cloudy
S4	23 Feb 2016	Wind Speed (kts)	2.3
S4	23 Feb 2016	Wind Dir	SW
S4	23 Feb 2016	Animal Life	None
S4	23 Feb 2016	Floatables	None
S4	23 Feb 2016	Water Color	Green
S4	23 Feb 2016	Current Direction	S
S4	23 Feb 2016	Water Temp (C)	16
S4	23 Feb 2016	Wave Height Low (ft)	3
S4	23 Feb 2016	High Tide (ft)	5.3
S4	23 Feb 2016	High Tide Time	903
S4	23 Feb 2016	Low Tide (ft)	0.8
S4	23 Feb 2016	Low Tide Time	308
S4	23 Feb 2016	Comments	Water clear
S5	02 Feb 2016	Arrive Time	1300
S5	02 Feb 2016	Weather	Sunny
S5	02 Feb 2016	Wind Speed (kts)	3.8
S5	02 Feb 2016	Wind Dir	W
S5	02 Feb 2016	Animal Life	None
S5	02 Feb 2016	Floatables	None
S5	02 Feb 2016	Water Color	Green
S5	02 Feb 2016	Current Direction	S
S5	02 Feb 2016	Water Temp (C)	16
S5	02 Feb 2016	Wave Height Low (ft)	3
S5	02 Feb 2016	High Tide (ft)	2.8
S5	02 Feb 2016	High Tide Time	1753
S5	02 Feb 2016	Low Tide (ft)	0.9
S5	02 Feb 2016	Low Tide Time	1142
S5	02 Feb 2016	Comments	Sewage-like odor; Water clear; Some foam along the waterline
S5	04 Feb 2016	Arrive Time	1044
S5	04 Feb 2016	Weather	Sunny
S5	04 Feb 2016	Wind Speed (kts)	7.7
S5	04 Feb 2016	Wind Dir	NW
S5	04 Feb 2016	Animal Life	10 Birds

Station	Date	Parameter	Value
S5	04 Feb 2016	Floatables	None
S5	04 Feb 2016	Water Color	Green
S5	04 Feb 2016	Current Direction	NW
S5	04 Feb 2016	Water Temp (C)	13
S5	04 Feb 2016	Wave Height Low (ft)	2
S5	04 Feb 2016	High Tide (ft)	5.1
S5	04 Feb 2016	High Tide Time	543
S5	04 Feb 2016	Low Tide (ft)	-0.2
S5	04 Feb 2016	Low Tide Time	1302
S5	04 Feb 2016	Comments	Kelp; Seagrass; Water clear
S5	05 Feb 2016	Arrive Time	1003
S5	05 Feb 2016	Weather	Sunny
S5	05 Feb 2016	Wind Speed (kts)	5.4
S5	05 Feb 2016	Wind Dir	N
S5	05 Feb 2016	Animal Life	None
S5	05 Feb 2016	Floatables	None
S5	05 Feb 2016	Water Color	Green
S5	05 Feb 2016	Current Direction	S
S5	05 Feb 2016	Water Temp (C)	13.6
S5	05 Feb 2016	Wave Height Low (ft)	4
S5	05 Feb 2016	High Tide (ft)	5.5
S5	05 Feb 2016	High Tide Time	625
S5	05 Feb 2016	Low Tide (ft)	-0.6
S5	05 Feb 2016	Low Tide Time	1336
S5	05 Feb 2016	Comments	Seagrass; Sewage-like odor; Water clear
S5	07 Feb 2016	Arrive Time	1004
S5	07 Feb 2016	Weather	Sunny
S5	07 Feb 2016	Wind Speed (kts)	7.2
S5	07 Feb 2016	Wind Dir	N
S5	07 Feb 2016	Animal Life	None
S5	07 Feb 2016	Floatables	None
S5	07 Feb 2016	Water Color	Green
S5	07 Feb 2016	Current Direction	S
S5	07 Feb 2016	Water Temp (C)	15
S5	07 Feb 2016	Wave Height Low (ft)	3
S5	07 Feb 2016	High Tide (ft)	6.1
S5	07 Feb 2016	High Tide Time	744
S5	07 Feb 2016	Low Tide (ft)	-1.2
S5	07 Feb 2016	Low Tide Time	1444
S5	07 Feb 2016	Comments	Kelp; Seagrass; 2 Persons; Water clear
S5	09 Feb 2016	Arrive Time	1040
S5	09 Feb 2016	Weather	Sunny
S5	09 Feb 2016	Wind Speed (kts)	9.5
S5	09 Feb 2016	Wind Dir	S
S5	09 Feb 2016	Animal Life	1 Bird
S5	09 Feb 2016	Floatables	None
S5	09 Feb 2016	Water Color	Green
S5	09 Feb 2016	Current Direction	S
S5	09 Feb 2016	Water Temp (C)	15
S5	09 Feb 2016	Wave Height Low (ft)	3
S5	09 Feb 2016	High Tide (ft)	6.1
S5	09 Feb 2016	High Tide Time	905

Station	Date	Parameter	Value
S5	09 Feb 2016	Low Tide (ft)	-1.2
S5	09 Feb 2016	Low Tide Time	1555
S5	09 Feb 2016	Comments	Sewage-like odor; Water clear
S5	16 Feb 2016	Arrive Time	958
S5	16 Feb 2016	Weather	Sunny
S5	16 Feb 2016	Wind Speed (kts)	9.7
S5	16 Feb 2016	Wind Dir	SE
S5	16 Feb 2016	Animal Life	None
S5	16 Feb 2016	Floatables	None
S5	16 Feb 2016	Water Color	Green
S5	16 Feb 2016	Current Direction	S
S5	16 Feb 2016	Water Temp (C)	18.6
S5	16 Feb 2016	Wave Height Low (ft)	2
S5	16 Feb 2016	High Tide (ft)	4.9
S5	16 Feb 2016	High Tide Time	339
S5	16 Feb 2016	Low Tide (ft)	0.2
S5	16 Feb 2016	Low Tide Time	1117
S5	16 Feb 2016	Comments	Water clear
S5	23 Feb 2016	Arrive Time	951
S5	23 Feb 2016	Weather	Sunny
S5	23 Feb 2016	Wind Speed (kts)	2.3
S5	23 Feb 2016	Wind Dir	S
S5	23 Feb 2016	Animal Life	None
S5	23 Feb 2016	Floatables	None
S5	23 Feb 2016	Water Color	Green
S5	23 Feb 2016	Current Direction	S
S5	23 Feb 2016	Water Temp (C)	16.8
S5	23 Feb 2016	Wave Height Low (ft)	2
S5	23 Feb 2016	High Tide (ft)	5.3
S5	23 Feb 2016	High Tide Time	903
S5	23 Feb 2016	Low Tide (ft)	-0.4
S5	23 Feb 2016	Low Tide Time	1541
S5	23 Feb 2016	Comments	Water clear
S6	02 Feb 2016	Arrive Time	1240
S6	02 Feb 2016	Weather	Sunny
S6	02 Feb 2016	Wind Speed (kts)	3.8
S6	02 Feb 2016	Wind Dir	W
S6	02 Feb 2016	Animal Life	None
S6	02 Feb 2016	Floatables	None
S6	02 Feb 2016	Water Color	Green
S6	02 Feb 2016	Current Direction	S
S6	02 Feb 2016	Water Temp (C)	15.6
S6	02 Feb 2016	Wave Height Low (ft)	3
S6	02 Feb 2016	High Tide (ft)	2.8
S6	02 Feb 2016	High Tide Time	1753
S6	02 Feb 2016	Low Tide (ft)	0.9
S6	02 Feb 2016	Low Tide Time	1142
S6	02 Feb 2016	Comments	Kelp; 2 Surfers; Water clear
S6	09 Feb 2016	Arrive Time	1059
S6	09 Feb 2016	Weather	Sunny
S6	09 Feb 2016	Wind Speed (kts)	6.4

Station	Date	Parameter	Value
S6	09 Feb 2016	Wind Dir	S
S6	09 Feb 2016	Animal Life	None
S6	09 Feb 2016	Floatables	None
S6	09 Feb 2016	Water Color	Green
S6	09 Feb 2016	Current Direction	S
S6	09 Feb 2016	Water Temp (C)	14.2
S6	09 Feb 2016	Wave Height Low (ft)	4
S6	09 Feb 2016	High Tide (ft)	6.1
S6	09 Feb 2016	High Tide Time	905
S6	09 Feb 2016	Low Tide (ft)	-1.2
S6	09 Feb 2016	Low Tide Time	1555
S6	09 Feb 2016	Comments	Water clear
S6	16 Feb 2016	Arrive Time	945
S6	16 Feb 2016	Weather	Sunny
S6	16 Feb 2016	Wind Speed (kts)	10.6
S6	16 Feb 2016	Wind Dir	E
S6	16 Feb 2016	Animal Life	None
S6	16 Feb 2016	Floatables	None
S6	16 Feb 2016	Water Color	Green
S6	16 Feb 2016	Current Direction	S
S6	16 Feb 2016	Water Temp (C)	18.4
S6	16 Feb 2016	Wave Height Low (ft)	3
S6	16 Feb 2016	High Tide (ft)	4.9
S6	16 Feb 2016	High Tide Time	339
S6	16 Feb 2016	Low Tide (ft)	0.2
S6	16 Feb 2016	Low Tide Time	1117
S6	16 Feb 2016	Comments	1 Surfer; Water clear
S6	23 Feb 2016	Arrive Time	935
S6	23 Feb 2016	Weather	Sunny
S6	23 Feb 2016	Wind Speed (kts)	3.6
S6	23 Feb 2016	Wind Dir	S
S6	23 Feb 2016	Animal Life	None
S6	23 Feb 2016	Floatables	None
S6	23 Feb 2016	Water Color	Green
S6	23 Feb 2016	Current Direction	S
S6	23 Feb 2016	Water Temp (C)	16.8
S6	23 Feb 2016	Wave Height Low (ft)	3
S6	23 Feb 2016	High Tide (ft)	5.3
S6	23 Feb 2016	High Tide Time	903
S6	23 Feb 2016	Low Tide (ft)	-0.4
S6	23 Feb 2016	Low Tide Time	1541
S6	23 Feb 2016	Comments	Kelp; 2 Persons; Water clear
S8	02 Feb 2016	Arrive Time	1348
S8	02 Feb 2016	Weather	Sunny
S8	02 Feb 2016	Wind Speed (kts)	2.9
S8	02 Feb 2016	Wind Dir	W
S8	02 Feb 2016	Animal Life	None
S8	02 Feb 2016	Floatables	None
S8	02 Feb 2016	Water Color	Green
S8	02 Feb 2016	Current Direction	S
S8	02 Feb 2016	Water Temp (C)	14.8
S8	02 Feb 2016	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S8	02 Feb 2016	High Tide (ft)	2.8
S8	02 Feb 2016	High Tide Time	1753
S8	02 Feb 2016	Low Tide (ft)	0.9
S8	02 Feb 2016	Low Tide Time	1142
S8	02 Feb 2016	Comments	Water clear
S8	09 Feb 2016	Arrive Time	942
S8	09 Feb 2016	Weather	Sunny
S8	09 Feb 2016	Wind Speed (kts)	3.6
S8	09 Feb 2016	Wind Dir	S
S8	09 Feb 2016	Animal Life	None
S8	09 Feb 2016	Floatables	None
S8	09 Feb 2016	Water Color	Green
S8	09 Feb 2016	Current Direction	S
S8	09 Feb 2016	Water Temp (C)	15.6
S8	09 Feb 2016	Wave Height Low (ft)	2
S8	09 Feb 2016	High Tide (ft)	6.1
S8	09 Feb 2016	High Tide Time	905
S8	09 Feb 2016	Low Tide (ft)	-1.2
S8	09 Feb 2016	Low Tide Time	1555
S8	09 Feb 2016	Comments	1 Person; Water clear
S8	16 Feb 2016	Arrive Time	1124
S8	16 Feb 2016	Weather	Sunny
S8	16 Feb 2016	Wind Speed (kts)	5
S8	16 Feb 2016	Wind Dir	N
S8	16 Feb 2016	Animal Life	None
S8	16 Feb 2016	Floatables	None
S8	16 Feb 2016	Water Color	Green
S8	16 Feb 2016	Current Direction	S
S8	16 Feb 2016	Water Temp (C)	18.8
S8	16 Feb 2016	Wave Height Low (ft)	2
S8	16 Feb 2016	High Tide (ft)	3.1
S8	16 Feb 2016	High Tide Time	1743
S8	16 Feb 2016	Low Tide (ft)	0.2
S8	16 Feb 2016	Low Tide Time	1117
S8	16 Feb 2016	Comments	3 Persons; Water clear
S8	23 Feb 2016	Arrive Time	1101
S8	23 Feb 2016	Weather	Sunny
S8	23 Feb 2016	Wind Speed (kts)	2.5
S8	23 Feb 2016	Wind Dir	S
S8	23 Feb 2016	Animal Life	None
S8	23 Feb 2016	Floatables	None
S8	23 Feb 2016	Water Color	Green
S8	23 Feb 2016	Current Direction	S
S8	23 Feb 2016	Water Temp (C)	17
S8	23 Feb 2016	Wave Height Low (ft)	2
S8	23 Feb 2016	High Tide (ft)	5.3
S8	23 Feb 2016	High Tide Time	903
S8	23 Feb 2016	Low Tide (ft)	-0.4
S8	23 Feb 2016	Low Tide Time	1541
S8	23 Feb 2016	Comments	Water clear
S9	02 Feb 2016	Arrive Time	1410

Station	Date	Parameter	Value
S9	02 Feb 2016	Weather	Sunny
S9	02 Feb 2016	Wind Speed (kts)	3.8
S9	02 Feb 2016	Wind Dir	W
S9	02 Feb 2016	Animal Life	None
S9	02 Feb 2016	Floatables	None
S9	02 Feb 2016	Water Color	Green
S9	02 Feb 2016	Current Direction	S
S9	02 Feb 2016	Water Temp (C)	15.6
S9	02 Feb 2016	Wave Height Low (ft)	2
S9	02 Feb 2016	High Tide (ft)	2.8
S9	02 Feb 2016	High Tide Time	1753
S9	02 Feb 2016	Low Tide (ft)	0.9
S9	02 Feb 2016	Low Tide Time	1142
S9	02 Feb 2016	Comments	Water clear
S9	09 Feb 2016	Arrive Time	915
S9	09 Feb 2016	Weather	Sunny
S9	09 Feb 2016	Wind Speed (kts)	2.1
S9	09 Feb 2016	Wind Dir	W
S9	09 Feb 2016	Animal Life	None
S9	09 Feb 2016	Floatables	None
S9	09 Feb 2016	Water Color	Green
S9	09 Feb 2016	Current Direction	W
S9	09 Feb 2016	Water Temp (C)	15.4
S9	09 Feb 2016	Wave Height Low (ft)	3
S9	09 Feb 2016	High Tide (ft)	6.1
S9	09 Feb 2016	High Tide Time	905
S9	09 Feb 2016	Low Tide (ft)	0.8
S9	09 Feb 2016	Low Tide Time	303
S9	09 Feb 2016	Comments	2 Surfers; Water clear
S9	16 Feb 2016	Arrive Time	1150
S9	16 Feb 2016	Weather	Sunny
S9	16 Feb 2016	Wind Speed (kts)	0.1
S9	16 Feb 2016	Wind Dir	N
S9	16 Feb 2016	Animal Life	None
S9	16 Feb 2016	Floatables	None
S9	16 Feb 2016	Water Color	Green
S9	16 Feb 2016	Current Direction	S
S9	16 Feb 2016	Water Temp (C)	21
S9	16 Feb 2016	Wave Height Low (ft)	2
S9	16 Feb 2016	High Tide (ft)	3.1
S9	16 Feb 2016	High Tide Time	1743
S9	16 Feb 2016	Low Tide (ft)	0.2
S9	16 Feb 2016	Low Tide Time	1117
S9	16 Feb 2016	Comments	Kelp; 10 Persons; Water clear
S9	23 Feb 2016	Arrive Time	1125
S9	23 Feb 2016	Weather	Sunny
S9	23 Feb 2016	Wind Speed (kts)	2.9
S9	23 Feb 2016	Wind Dir	S
S9	23 Feb 2016	Animal Life	None
S9	23 Feb 2016	Floatables	None
S9	23 Feb 2016	Water Color	Green
S9	23 Feb 2016	Current Direction	S

Station	Date	Parameter	Value
S9	23 Feb 2016	Water Temp (C)	16.2
S9	23 Feb 2016	Wave Height Low (ft)	3
S9	23 Feb 2016	High Tide (ft)	5.3
S9	23 Feb 2016	High Tide Time	903
S9	23 Feb 2016	Low Tide (ft)	-0.4
S9	23 Feb 2016	Low Tide Time	1541
S9	23 Feb 2016	Comments	Kelp; 1 Person; 4 Surfers; Water clear
S10	02 Feb 2016	Arrive Time	1057
S10	02 Feb 2016	Weather	Sunny
S10	02 Feb 2016	Wind Speed (kts)	3.8
S10	02 Feb 2016	Wind Dir	W
S10	02 Feb 2016	Animal Life	None
S10	02 Feb 2016	Floatables	None
S10	02 Feb 2016	Water Color	Green
S10	02 Feb 2016	Current Direction	S
S10	02 Feb 2016	Water Temp (C)	14.8
S10	02 Feb 2016	Wave Height Low (ft)	4
S10	02 Feb 2016	High Tide (ft)	4.3
S10	02 Feb 2016	High Tide Time	404
S10	02 Feb 2016	Low Tide (ft)	0.9
S10	02 Feb 2016	Low Tide Time	1142
S10	02 Feb 2016	Comments	Sewage-like odor; Water clear
S10	04 Feb 2016	Arrive Time	942
S10	04 Feb 2016	Weather	Sunny
S10	04 Feb 2016	Wind Speed (kts)	5.8
S10	04 Feb 2016	Wind Dir	NE
S10	04 Feb 2016	Animal Life	None
S10	04 Feb 2016	Floatables	None
S10	04 Feb 2016	Water Color	Green
S10	04 Feb 2016	Current Direction	S
S10	04 Feb 2016	Water Temp (C)	14.4
S10	04 Feb 2016	Wave Height Low (ft)	3
S10	04 Feb 2016	High Tide (ft)	5.1
S10	04 Feb 2016	High Tide Time	543
S10	04 Feb 2016	Low Tide (ft)	-0.2
S10	04 Feb 2016	Low Tide Time	1302
S10	04 Feb 2016	Comments	Kelp; Seagrass; Water clear
S10	05 Feb 2016	Arrive Time	1058
S10	05 Feb 2016	Weather	Sunny
S10	05 Feb 2016	Wind Speed (kts)	3.6
S10	05 Feb 2016	Wind Dir	NW
S10	05 Feb 2016	Animal Life	None
S10	05 Feb 2016	Floatables	None
S10	05 Feb 2016	Water Color	Green
S10	05 Feb 2016	Current Direction	S
S10	05 Feb 2016	Water Temp (C)	14.6
S10	05 Feb 2016	Wave Height Low (ft)	4
S10	05 Feb 2016	High Tide (ft)	5.5
S10	05 Feb 2016	High Tide Time	625
S10	05 Feb 2016	Low Tide (ft)	-0.6
S10	05 Feb 2016	Low Tide Time	1336
S10	05 Feb 2016	Comments	Sewage-like odor; Water clear

Station	Date	Parameter	Value
S10	07 Feb 2016	Arrive Time	918
S10	07 Feb 2016	Weather	Sunny
S10	07 Feb 2016	Wind Speed (kts)	7.9
S10	07 Feb 2016	Wind Dir	N
S10	07 Feb 2016	Animal Life	None
S10	07 Feb 2016	Floatables	None
S10	07 Feb 2016	Water Color	Green
S10	07 Feb 2016	Current Direction	S
S10	07 Feb 2016	Water Temp (C)	14.8
S10	07 Feb 2016	Wave Height Low (ft)	4
S10	07 Feb 2016	High Tide (ft)	6.1
S10	07 Feb 2016	High Tide Time	744
S10	07 Feb 2016	Low Tide (ft)	-1.2
S10	07 Feb 2016	Low Tide Time	1444
S10	07 Feb 2016	Comments	Kelp; Seagrass; Water clear; Dead animal on beach.
S10	09 Feb 2016	Arrive Time	1219
S10	09 Feb 2016	Weather	Sunny
S10	09 Feb 2016	Wind Speed (kts)	2.1
S10	09 Feb 2016	Wind Dir	S
S10	09 Feb 2016	Animal Life	None
S10	09 Feb 2016	Floatables	None
S10	09 Feb 2016	Water Color	Green
S10	09 Feb 2016	Current Direction	S
S10	09 Feb 2016	Water Temp (C)	16.6
S10	09 Feb 2016	Wave Height Low (ft)	3
S10	09 Feb 2016	High Tide (ft)	6.1
S10	09 Feb 2016	High Tide Time	905
S10	09 Feb 2016	Low Tide (ft)	-1.2
S10	09 Feb 2016	Low Tide Time	1555
S10	09 Feb 2016	Comments	Sewage-like odor; Water clear
S10	11 Feb 2016	Arrive Time	1017
S10	11 Feb 2016	Weather	Sunny
S10	11 Feb 2016	Wind Speed (kts)	3.6
S10	11 Feb 2016	Wind Dir	N
S10	11 Feb 2016	Animal Life	None
S10	11 Feb 2016	Floatables	None
S10	11 Feb 2016	Water Color	Green
S10	11 Feb 2016	Current Direction	N
S10	11 Feb 2016	Water Temp (C)	15.8
S10	11 Feb 2016	Wave Height Low (ft)	4
S10	11 Feb 2016	High Tide (ft)	5.2
S10	11 Feb 2016	High Tide Time	1034
S10	11 Feb 2016	Low Tide (ft)	0.7
S10	11 Feb 2016	Low Tide Time	439
S10	11 Feb 2016	Comments	Water clear
S10	12 Feb 2016	Arrive Time	857
S10	12 Feb 2016	Weather	Sunny
S10	12 Feb 2016	Wind Speed (kts)	5.4
S10	12 Feb 2016	Wind Dir	N
S10	12 Feb 2016	Animal Life	None
S10	12 Feb 2016	Floatables	None

Station	Date	Parameter	Value
S10	12 Feb 2016	Water Color	Green
S10	12 Feb 2016	Current Direction	S
S10	12 Feb 2016	Water Temp (C)	17
S10	12 Feb 2016	Wave Height Low (ft)	3
S10	12 Feb 2016	High Tide (ft)	4.5
S10	12 Feb 2016	High Tide Time	1127
S10	12 Feb 2016	Low Tide (ft)	0.8
S10	12 Feb 2016	Low Tide Time	536
S10	12 Feb 2016	Comments	Seagrass; Water clear
S10	14 Feb 2016	Arrive Time	934
S10	14 Feb 2016	Weather	Sunny
S10	14 Feb 2016	Wind Speed (kts)	5
S10	14 Feb 2016	Wind Dir	W
S10	14 Feb 2016	Animal Life	None
S10	14 Feb 2016	Floatables	None
S10	14 Feb 2016	Water Color	Green
S10	14 Feb 2016	Current Direction	W
S10	14 Feb 2016	Water Temp (C)	18
S10	14 Feb 2016	Wave Height Low (ft)	5
S10	14 Feb 2016	High Tide (ft)	3.1
S10	14 Feb 2016	High Tide Time	1404
S10	14 Feb 2016	Low Tide (ft)	0.9
S10	14 Feb 2016	Low Tide Time	812
S10	14 Feb 2016	Comments	Kelp; Seagrass; Water turbid; Carcass of seal pup on the sand beach.contaminated water signs posted
S10	16 Feb 2016	Arrive Time	841
S10	16 Feb 2016	Weather	Sunny
S10	16 Feb 2016	Wind Speed (kts)	5.8
S10	16 Feb 2016	Wind Dir	E
S10	16 Feb 2016	Animal Life	None
S10	16 Feb 2016	Floatables	None
S10	16 Feb 2016	Water Color	Green
S10	16 Feb 2016	Current Direction	S
S10	16 Feb 2016	Water Temp (C)	17.6
S10	16 Feb 2016	Wave Height Low (ft)	3
S10	16 Feb 2016	High Tide (ft)	4.9
S10	16 Feb 2016	High Tide Time	339
S10	16 Feb 2016	Low Tide (ft)	0.2
S10	16 Feb 2016	Low Tide Time	1117
S10	16 Feb 2016	Comments	Water clear
S10	23 Feb 2016	Arrive Time	826
S10	23 Feb 2016	Weather	Sunny
S10	23 Feb 2016	Wind Speed (kts)	1.3
S10	23 Feb 2016	Wind Dir	SW
S10	23 Feb 2016	Animal Life	None
S10	23 Feb 2016	Floatables	None
S10	23 Feb 2016	Water Color	Green
S10	23 Feb 2016	Current Direction	S
S10	23 Feb 2016	Water Temp (C)	16
S10	23 Feb 2016	Wave Height Low (ft)	3
S10	23 Feb 2016	High Tide (ft)	5.3
S10	23 Feb 2016	High Tide Time	903

Station	Date	Parameter	Value
S10	23 Feb 2016	Low Tide (ft)	0.8
S10	23 Feb 2016	Low Tide Time	308
S10	23 Feb 2016	Comments	Kelp; Water clear
S11	02 Feb 2016	Arrive Time	1245
S11	02 Feb 2016	Weather	Sunny
S11	02 Feb 2016	Wind Speed (kts)	3.6
S11	02 Feb 2016	Wind Dir	W
S11	02 Feb 2016	Animal Life	None
S11	02 Feb 2016	Floatables	None
S11	02 Feb 2016	Water Color	Green
S11	02 Feb 2016	Current Direction	S
S11	02 Feb 2016	Water Temp (C)	16.6
S11	02 Feb 2016	Wave Height Low (ft)	3
S11	02 Feb 2016	High Tide (ft)	2.8
S11	02 Feb 2016	High Tide Time	1753
S11	02 Feb 2016	Low Tide (ft)	0.9
S11	02 Feb 2016	Low Tide Time	1142
S11	02 Feb 2016	Comments	Water clear
S11	09 Feb 2016	Arrive Time	1050
S11	09 Feb 2016	Weather	Sunny
S11	09 Feb 2016	Wind Speed (kts)	5.6
S11	09 Feb 2016	Wind Dir	S
S11	09 Feb 2016	Animal Life	1 Seal
S11	09 Feb 2016	Floatables	None
S11	09 Feb 2016	Water Color	Green
S11	09 Feb 2016	Current Direction	S
S11	09 Feb 2016	Water Temp (C)	16.6
S11	09 Feb 2016	Wave Height Low (ft)	5
S11	09 Feb 2016	High Tide (ft)	6.1
S11	09 Feb 2016	High Tide Time	905
S11	09 Feb 2016	Low Tide (ft)	-1.2
S11	09 Feb 2016	Low Tide Time	1555
S11	09 Feb 2016	Comments	Water clear
S11	16 Feb 2016	Arrive Time	950
S11	16 Feb 2016	Weather	Sunny
S11	16 Feb 2016	Wind Speed (kts)	12.2
S11	16 Feb 2016	Wind Dir	SE
S11	16 Feb 2016	Animal Life	None
S11	16 Feb 2016	Floatables	None
S11	16 Feb 2016	Water Color	Green
S11	16 Feb 2016	Current Direction	S
S11	16 Feb 2016	Water Temp (C)	17.8
S11	16 Feb 2016	Wave Height Low (ft)	3
S11	16 Feb 2016	High Tide (ft)	4.9
S11	16 Feb 2016	High Tide Time	339
S11	16 Feb 2016	Low Tide (ft)	0.2
S11	16 Feb 2016	Low Tide Time	1117
S11	16 Feb 2016	Comments	Water clear
S11	23 Feb 2016	Arrive Time	942
S11	23 Feb 2016	Weather	Sunny
S11	23 Feb 2016	Wind Speed (kts)	6.9

Station	Date	Parameter	Value
S11	23 Feb 2016	Wind Dir	S
S11	23 Feb 2016	Animal Life	None
S11	23 Feb 2016	Floatables	None
S11	23 Feb 2016	Water Color	Green
S11	23 Feb 2016	Current Direction	S
S11	23 Feb 2016	Water Temp (C)	16.6
S11	23 Feb 2016	Wave Height Low (ft)	4
S11	23 Feb 2016	High Tide (ft)	5.3
S11	23 Feb 2016	High Tide Time	903
S11	23 Feb 2016	Low Tide (ft)	-0.4
S11	23 Feb 2016	Low Tide Time	1541
S11	23 Feb 2016	Comments	3 Persons; Water clear
S12	02 Feb 2016	Arrive Time	1225
S12	02 Feb 2016	Weather	Sunny
S12	02 Feb 2016	Wind Speed (kts)	3.6
S12	02 Feb 2016	Wind Dir	W
S12	02 Feb 2016	Animal Life	None
S12	02 Feb 2016	Floatables	None
S12	02 Feb 2016	Water Color	Green
S12	02 Feb 2016	Current Direction	S
S12	02 Feb 2016	Water Temp (C)	15.2
S12	02 Feb 2016	Wave Height Low (ft)	3
S12	02 Feb 2016	High Tide (ft)	2.8
S12	02 Feb 2016	High Tide Time	1753
S12	02 Feb 2016	Low Tide (ft)	0.9
S12	02 Feb 2016	Low Tide Time	1142
S12	02 Feb 2016	Comments	Water clear
S12	09 Feb 2016	Arrive Time	1015
S12	09 Feb 2016	Weather	Sunny
S12	09 Feb 2016	Wind Speed (kts)	4.2
S12	09 Feb 2016	Wind Dir	S
S12	09 Feb 2016	Animal Life	None
S12	09 Feb 2016	Floatables	None
S12	09 Feb 2016	Water Color	Green
S12	09 Feb 2016	Current Direction	S
S12	09 Feb 2016	Water Temp (C)	16.2
S12	09 Feb 2016	Wave Height Low (ft)	3
S12	09 Feb 2016	High Tide (ft)	6.1
S12	09 Feb 2016	High Tide Time	905
S12	09 Feb 2016	Low Tide (ft)	-1.2
S12	09 Feb 2016	Low Tide Time	1555
S12	09 Feb 2016	Comments	Water clear
S12	16 Feb 2016	Arrive Time	926
S12	16 Feb 2016	Weather	Sunny
S12	16 Feb 2016	Wind Speed (kts)	3.8
S12	16 Feb 2016	Wind Dir	NE
S12	16 Feb 2016	Animal Life	None
S12	16 Feb 2016	Floatables	None
S12	16 Feb 2016	Water Color	Green
S12	16 Feb 2016	Current Direction	S
S12	16 Feb 2016	Water Temp (C)	17.8
S12	16 Feb 2016	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S12	16 Feb 2016	High Tide (ft)	4.9
S12	16 Feb 2016	High Tide Time	339
S12	16 Feb 2016	Low Tide (ft)	0.2
S12	16 Feb 2016	Low Tide Time	1117
S12	16 Feb 2016	Comments	1 Person; Water clear
S12	23 Feb 2016	Arrive Time	913
S12	23 Feb 2016	Weather	Sunny
S12	23 Feb 2016	Wind Speed (kts)	3.6
S12	23 Feb 2016	Wind Dir	SW
S12	23 Feb 2016	Animal Life	None
S12	23 Feb 2016	Floatables	None
S12	23 Feb 2016	Water Color	Green
S12	23 Feb 2016	Current Direction	S
S12	23 Feb 2016	Water Temp (C)	16
S12	23 Feb 2016	Wave Height Low (ft)	3
S12	23 Feb 2016	High Tide (ft)	5.3
S12	23 Feb 2016	High Tide Time	903
S12	23 Feb 2016	Low Tide (ft)	0.8
S12	23 Feb 2016	Low Tide Time	308
S12	23 Feb 2016	Comments	Kelp; 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 Feb 2016	25*	13*	7*	6*	7*	4*	17*
02 Feb 2016	25*	13*	7*	6*	7*	4*	17*
03 Feb 2016	24*	9*	7*	6*	7*	3*	14*
04 Feb 2016	87*	6*	5*	4*	5*	4*	24*
05 Feb 2016	87*	6*	5*	4*	5*	4*	24*
06 Feb 2016	87*	6*	5*	4*	5*	4*	24*
07 Feb 2016	87*	6*	5*	4*	5*	4*	24*
08 Feb 2016	87*	6*	5*	4*	5*	4*	24*
09 Feb 2016	87*	6*	5*	4*	5*	4*	24*
10 Feb 2016	118	28	22	9	5*	12	75
11 Feb 2016	118	28	22	9	10	12	75
12 Feb 2016	119*	30*	22*	7*	8*	13*	77*
13 Feb 2016	119*	30*	22*	7*	8*	13*	77*
14 Feb 2016	119*	30*	22*	7*	8*	13*	77*
15 Feb 2016	119*	30*	22*	7*	8*	13*	77*
16 Feb 2016	119*	30*	22*	7*	8*	13*	77*
17 Feb 2016	119*	30*	22*	7*	8*	13*	77*
18 Feb 2016	163*	35*	31*	10*	8*	23*	121*
19 Feb 2016	163*	35*	31*	10*	8*	23*	121*
20 Feb 2016	54*	17*	16*	7*	6*	13*	43*
21 Feb 2016	54*	17*	16*	7*	6*	13*	43*
22 Feb 2016	54*	17*	16*	7*	6*	13*	43*
23 Feb 2016	28	11	10	5	5	9	23
24 Feb 2016	28	11	10	5	5	9	23
25 Feb 2016	28	11	10	5	5	9	23
26 Feb 2016	28	11	10	5	5	9	23
27 Feb 2016	51*	17*	16*	6*	6*	13*	43*
28 Feb 2016	51*	17*	16*	6*	6*	13*	43*
29 Feb 2016	32	13	12	6	5	9	23

* 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 Feb 2016	5*	3*	2*	2*	2*	2*	4*
02 Feb 2016	5*	3*	2*	2*	2*	2*	4*
03 Feb 2016	5*	2*	2*	2*	2*	2*	3*
04 Feb 2016	10*	2*	2*	2*	2*	2*	3*
05 Feb 2016	10*	2*	2*	2*	2*	2*	3*
06 Feb 2016	10*	2*	2*	2*	2*	2*	3*
07 Feb 2016	10*	2*	2*	2*	2*	2*	3*
08 Feb 2016	10*	2*	2*	2*	2*	2*	3*
09 Feb 2016	10*	2*	2*	2*	2*	2*	3*
10 Feb 2016	11	6	6	3	2*	4	8
11 Feb 2016	11	6	6	3	2	4	8
12 Feb 2016	9*	9*	8*	3*	3*	5*	9*
13 Feb 2016	9*	9*	8*	3*	3*	5*	9*
14 Feb 2016	9*	9*	8*	3*	3*	5*	9*
15 Feb 2016	9*	9*	8*	3*	3*	5*	9*
16 Feb 2016	9*	9*	8*	3*	3*	5*	9*
17 Feb 2016	9*	9*	8*	3*	3*	5*	9*
18 Feb 2016	13*	14*	12*	4*	3*	7*	14*
19 Feb 2016	13*	14*	12*	4*	3*	7*	14*
20 Feb 2016	8*	9*	8*	3*	3*	5*	9*
21 Feb 2016	8*	9*	8*	3*	3*	5*	9*
22 Feb 2016	8*	9*	8*	3*	3*	5*	9*
23 Feb 2016	6	6	6	3	2	4	6
24 Feb 2016	6	6	6	3	2	4	6
25 Feb 2016	6	6	6	3	2	4	6
26 Feb 2016	6	6	6	3	2	4	6
27 Feb 2016	8*	9*	8*	3*	3*	5*	9*
28 Feb 2016	8*	9*	8*	3*	3*	5*	9*
29 Feb 2016	6	6	6	3	2	4	6

* 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 Feb 2016	7*	4*	4*	4*	2*	3*	9*
02 Feb 2016	7*	4*	4*	4*	2*	3*	9*
03 Feb 2016	11*	3*	4*	4*	2*	3*	7*
04 Feb 2016	18*	3*	3*	4*	2*	3*	5*
05 Feb 2016	18*	3*	3*	4*	2*	3*	5*
06 Feb 2016	18*	3*	3*	4*	2*	3*	5*
07 Feb 2016	18*	3*	3*	4*	2*	3*	5*
08 Feb 2016	18*	3*	3*	4*	2*	3*	5*
09 Feb 2016	18*	3*	3*	4*	2*	3*	5*
10 Feb 2016	19	6	7	4	2*	5	10
11 Feb 2016	19	6	7	4	2	5	10
12 Feb 2016	15*	9*	7*	3*	2*	6*	10*
13 Feb 2016	15*	9*	7*	3*	2*	6*	10*
14 Feb 2016	15*	9*	7*	3*	2*	6*	10*
15 Feb 2016	15*	9*	7*	3*	2*	6*	10*
16 Feb 2016	15*	9*	7*	3*	2*	6*	10*
17 Feb 2016	15*	9*	7*	3*	2*	6*	10*
18 Feb 2016	16*	11*	10*	3*	2*	6*	8*
19 Feb 2016	16*	11*	10*	3*	2*	6*	8*
20 Feb 2016	9*	7*	7*	3*	2*	5*	6*
21 Feb 2016	9*	7*	7*	3*	2*	5*	6*
22 Feb 2016	9*	7*	7*	3*	2*	5*	6*
23 Feb 2016	7	5	5	3	2	4	5
24 Feb 2016	7	5	5	3	2	4	5
25 Feb 2016	7	5	5	3	2	4	5
26 Feb 2016	7	5	5	3	2	4	5
27 Feb 2016	9*	6*	6*	3*	2*	5*	6*
28 Feb 2016	9*	6*	6*	3*	2*	5*	6*
29 Feb 2016	7	5	5	3	2	4	5

* 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
04 Feb 2016	IC	IC	IC	IC	IC	IC	IC
10 Feb 2016	IC	E	E	IC	ns	IC	E
11 Feb 2016	ns	ns	ns	ns	IC	ns	ns
20 Feb 2016	IC	IC	IC	IC	IC	IC	IC
23 Feb 2016	IC	IC	IC	IC	IC	IC	IC
29 Feb 2016	IC	IC	IC	IC	IC	IC	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
04 Feb 2016	IC	IC	IC	IC	IC	IC	IC
10 Feb 2016	IC	E	E	IC	ns	IC	E
11 Feb 2016	ns	ns	ns	ns	IC	ns	ns
20 Feb 2016	IC	IC	IC	IC	IC	IC	IC
23 Feb 2016	IC	IC	IC	IC	IC	IC	IC
29 Feb 2016	IC	IC	IC	IC	IC	IC	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
04 Feb 2016	IC	IC	IC	IC	IC	IC	IC
10 Feb 2016	IC	E	E	IC	ns	IC	E
11 Feb 2016	ns	ns	ns	ns	IC	ns	ns
20 Feb 2016	IC	IC	IC	IC	IC	IC	IC
23 Feb 2016	IC	IC	IC	IC	IC	IC	IC
29 Feb 2016	IC	IC	IC	IC	IC	IC	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
04 Feb 2016	IC	IC	IC	IC	IC	IC	IC
10 Feb 2016	IC	IC	IC	IC	ns	E	IC
11 Feb 2016	ns	ns	ns	ns	IC	ns	ns
20 Feb 2016	IC	IC	IC	IC	IC	IC	IC
23 Feb 2016	IC	IC	IC	IC	IC	IC	IC
29 Feb 2016	IC	IC	IC	IC	IC	IC	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* (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
I19	04 Feb 2016	1050	2	7200	72	66	0.01	14.8	55.49	7.5	33.51	8.1	ns	ns
I19	04 Feb 2016	1050	6	1400e	54	96	0.04	14.7	63.09	7.5	33.57	8.1	ns	ns
I19	04 Feb 2016	1050	11	3400e	52	90	0.02	14.7	62.60	7.4	33.57	8.1	ns	ns
I19	10 Feb 2016	935	2	26e	<2	2e	0.08	14.9	67.66	7.6	33.59	7.9	<0.2	8.1
I19	10 Feb 2016	935	6	100	6e	12e	0.06	14.8	65.93	7.5	33.59	7.9	ns	5.0
I19	10 Feb 2016	935	11	1100	46	56	0.04	14.8	61.94	7.5	33.58	7.9	ns	10.4
I19	20 Feb 2016		2	<2	<2	<2	1.00	16.5	56.99	7.6	33.57	8.2	ns	ns
I19	20 Feb 2016		6	2e	<2	<2	1.00	16.3	52.75	7.6	33.57	8.2	ns	ns
I19	20 Feb 2016		11	2e	<2	2e	1.00	15.9	41.10	7.4	33.55	8.2	ns	ns
I19	23 Feb 2016	1119	2	<2	<2	<2	1.00	16.6	72.23	7.7	33.55	8.2	ns	ns
I19	23 Feb 2016	1119	6	<2	<2	<2	1.00	16.1	58.07	7.8	33.54	8.2	ns	ns
I19	23 Feb 2016	1119	11	<2	<2	<2	1.00	15.3	56.63	7.1	33.52	8.1	ns	ns
I19	29 Feb 2016	1149	2	12e	<2	<2	0.17	16.9	77.73	8.0	33.55	8.0	ns	ns
I19	29 Feb 2016	1149	6	<2	2e	<2	1.00	16.5	71.47	7.9	33.55	8.0	ns	ns
I19	29 Feb 2016	1149	11	<2	<2	<2	1.00	16.0	58.89	7.7	33.54	8.0	ns	ns
I24	04 Feb 2016	1113	2	<2	<2	<2	1.00	14.7	72.00	7.2	33.58	8.1	ns	ns
I24	04 Feb 2016	1113	6	<2	<2	<2	1.00	14.6	69.89	7.2	33.58	8.1	ns	ns
I24	04 Feb 2016	1113	11	2e	<2	<2	1.00	14.6	64.23	7.1	33.58	8.1	ns	ns
I24	10 Feb 2016	904	2	>16000	1200	360e	0.07	14.7	66.84	7.7	33.51	7.9	<0.2	4.0
I24	10 Feb 2016	904	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	4.1*
I24	10 Feb 2016	904	6	13000	760	80e	0.06	14.8	71.72	7.6	33.57	7.9	ns	3.5
I24	10 Feb 2016	904	11	2400e	80e	84	0.03	14.6	31.00	7.2	33.57	7.9	ns	13.0
I24	20 Feb 2016		2	<2	<2	<2	1.00	16.7	66.44	7.7	33.57	8.2	ns	ns
I24	20 Feb 2016		6	<2	<2	<2	1.00	16.4	64.44	7.5	33.56	8.2	ns	ns
I24	20 Feb 2016		11	<2	<2	<2	1.00	16.0	50.77	7.3	33.54	8.2	ns	ns
I24	23 Feb 2016	1144	2	<2	<2	<2	1.00	16.7	75.52	7.8	33.55	8.2	ns	ns
I24	23 Feb 2016	1144	6	<2	<2	<2	1.00	16.0	74.58	7.6	33.54	8.2	ns	ns
I24	23 Feb 2016	1144	11	<2	<2	<2	1.00	15.8	66.20	7.5	33.54	8.2	ns	ns
I24	29 Feb 2016	1216	2	8e	<2	<2	0.25	16.9	74.04	8.0	33.55	8.0	ns	ns
I24	29 Feb 2016	1216	6	<2	<2	<2	1.00	16.6	69.14	7.8	33.54	8.0	ns	ns
I24	29 Feb 2016	1216	11	<2	<2	<2	1.00	15.9	61.54	7.3	33.53	8.0	ns	ns
I25	04 Feb 2016	1121	2	<2	<2	<2	1.00	14.9	75.45	7.4	33.59	8.1	ns	ns
I25	04 Feb 2016	1121	6	<2	<2	<2	1.00	14.6	70.10	7.5	33.59	8.2	ns	ns
I25	04 Feb 2016	1121	9	<2	<2	<2	1.00	14.6	69.54	7.4	33.59	8.1	ns	ns
I25	10 Feb 2016	857	2	16000	960	280e	0.06	14.8	69.09	7.6	33.53	7.9	<0.2	4.4

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	10 Feb 2016	857	6	5200	240e	120	0.05	14.7	59.89	7.2	33.57	7.9	ns	6.2
I25	10 Feb 2016	857	9	1500	140e	120	0.09	14.6	52.77	7.2	33.56	7.9	ns	24.8
I25	20 Feb 2016		2	<2	<2	<2	1.00	16.6	71.49	7.8	33.57	8.2	ns	ns
I25	20 Feb 2016		6	<2	<2	<2	1.00	16.1	63.30	7.4	33.54	8.2	ns	ns
I25	20 Feb 2016		9	<2	<2	<2	1.00	16.0	51.54	7.2	33.54	8.2	ns	ns
I25	23 Feb 2016	1152	2	<2	<2	<2	1.00	16.5	80.10	7.9	33.56	8.2	ns	ns
I25	23 Feb 2016	1152	6	<2	<2	<2	1.00	15.7	73.25	7.7	33.53	8.2	ns	ns
I25	23 Feb 2016	1152	9	2e	<2	<2	1.00	15.7	73.28	7.6	33.52	8.2	ns	ns
I25	29 Feb 2016	1225	2	4e	2e	<2	0.50	16.8	75.76	8.0	33.55	8.0	ns	ns
I25	29 Feb 2016	1225	6	<2	<2	<2	1.00	16.6	69.11	8.0	33.55	8.0	ns	ns
I25	29 Feb 2016	1225	9	6e	<2	<2	0.33	15.7	50.14	7.2	33.53	8.0	ns	ns
I26	04 Feb 2016	1132	2	<2	<2	<2	1.00	14.8	71.18	7.4	33.59	8.1	ns	ns
I26	04 Feb 2016	1132	6	<2	<2	2e	1.00	14.6	68.97	7.4	33.59	8.1	ns	ns
I26	04 Feb 2016	1132	9	2e	2e	<2	1.00	14.6	62.10	7.4	33.59	8.1	ns	ns
I26	10 Feb 2016	845	2	80e	6e	6e	0.07	14.7	61.84	7.3	33.57	7.9	<0.2	7.6
I26	10 Feb 2016	845	6	320e	10e	4e	0.03	14.7	59.30	7.3	33.57	7.9	ns	5.7
I26	10 Feb 2016	845	9	<200	30e	14e	0.15	14.7	59.62	7.2	33.56	7.9	ns	7.2
I26	20 Feb 2016		2	<2	<2	<2	1.00	16.5	71.51	7.8	33.56	8.2	ns	ns
I26	20 Feb 2016		6	<2	<2	<2	1.00	15.9	61.85	7.7	33.55	8.2	ns	ns
I26	20 Feb 2016		9	<2	<2	<2	1.00	15.8	55.17	7.6	33.53	8.2	ns	ns
I26	23 Feb 2016	1202	2	<2	<2	<2	1.00	16.5	80.64	7.8	33.56	8.2	ns	ns
I26	23 Feb 2016	1202	6	<2	<2	<2	1.00	15.6	62.84	7.5	33.53	8.2	ns	ns
I26	23 Feb 2016	1202	9	<2	<2	<2	1.00	15.4	69.91	7.4	33.52	8.2	ns	ns
I26	29 Feb 2016	1235	2	<2	<2	<2	1.00	17.1	82.32	8.0	33.55	8.1	ns	ns
I26	29 Feb 2016	1235	6	2e	<2	<2	1.00	15.9	75.36	7.9	33.53	8.1	ns	ns
I26	29 Feb 2016	1235	9	8e	<2	<2	0.25	15.6	58.59	7.4	33.52	8.0	ns	ns
I32	04 Feb 2016	1144	2	<2	<2	<2	1.00	15.0	60.41	7.5	33.60	8.2	ns	ns
I32	04 Feb 2016	1144	6	2e	<2	<2	1.00	14.7	54.51	7.5	33.60	8.2	ns	ns
I32	04 Feb 2016	1144	9	<2	<2	<2	1.00	14.7	41.96	7.8	33.61	8.2	ns	ns
I32	11 Feb 2016	1034	2	10e	2e	<2	0.20	15.5	69.86	7.9	33.59	8.2	<0.2	3.5
I32	11 Feb 2016	1034	6	94	2e	2e	0.02	15.2	64.93	7.9	33.59	8.2	ns	5.9
I32	11 Feb 2016	1034	9	280e	12e	<2	0.04	15.1	61.43	7.8	33.59	8.2	ns	5.6
I32	20 Feb 2016		2	<2	<2	<2	1.00	16.4	63.96	7.8	33.56	8.2	ns	ns
I32	20 Feb 2016		6	<2	<2	2e	1.00	16.1	54.75	7.8	33.56	8.2	ns	ns
I32	20 Feb 2016		9	<2	<2	<2	1.00	15.9	37.83	7.6	33.55	8.2	ns	ns
I32	23 Feb 2016	1220	2	<2	<2	<2	1.00	16.5	54.81	7.8	33.55	8.2	ns	ns
I32	23 Feb 2016	1220	6	<2	<2	<2	1.00	16.4	55.94	7.8	33.56	8.2	ns	ns
I32	23 Feb 2016	1220	9	<2	<2	<2	1.00	15.7	50.18	7.4	33.55	8.2	ns	ns
I32	29 Feb 2016	1247	2	<2	<2	<2	1.00	17.1	60.92	8.1	33.55	8.0	ns	ns
I32	29 Feb 2016	1247	6	2e	2e	<2	1.00	16.9	55.92	7.9	33.55	8.0	ns	ns
I32	29 Feb 2016	1247	9	<2	<2	<2	1.00	16.3	42.48	7.7	33.54	8.0	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I39	04 Feb 2016	1030	2	<2	<2	<2	1.00	15.2	81.30	7.5	33.59	8.2	ns	ns
I39	04 Feb 2016	1030	12	4e	<2	<2	0.50	15.1	80.63	7.4	33.58	8.2	ns	ns
I39	04 Feb 2016	1030	18	12e	<2	<2	0.17	14.9	75.19	7.1	33.57	8.2	ns	ns
I39	10 Feb 2016	831	2	1200	160e	66	0.13	14.9	69.40	7.7	33.56	8.0	<0.2	4.4
I39	10 Feb 2016	831	12	1600e	80e	94	0.05	14.8	62.63	7.5	33.58	7.9	ns	6.6
I39	10 Feb 2016	831	18	400	10e	2e	0.02	14.8	58.76	7.5	33.58	7.9	ns	8.3
I39	20 Feb 2016		2	<2	<2	<2	1.00	16.5	76.78	7.9	33.56	8.2	ns	ns
I39	20 Feb 2016		12	<2	<2	<2	1.00	15.6	69.22	7.4	33.54	8.2	ns	ns
I39	20 Feb 2016		18	2e	<2	<2	1.00	15.4	58.15	7.1	33.54	8.2	ns	ns
I39	23 Feb 2016	1058	2	<2	<2	<2	1.00	16.4	80.13	7.8	33.55	8.2	ns	ns
I39	23 Feb 2016	1058	12	<2	<2	<2	1.00	15.9	79.56	7.8	33.54	8.2	ns	ns
I39	23 Feb 2016	1058	18	<2	<2	<2	1.00	15.0	78.06	7.0	33.50	8.1	ns	ns
I39	29 Feb 2016	1130	2	<2	<2	<2	1.00	16.7	82.32	8.0	33.56	8.1	ns	ns
I39	29 Feb 2016	1130	12	<2	<2	<2	1.00	15.8	80.50	7.8	33.53	8.0	ns	ns
I39	29 Feb 2016	1130	18	<2	<2	<2	1.00	15.2	60.16	6.8	33.51	8.0	ns	ns
I40	04 Feb 2016	1103	2	4e	<2	<2	0.50	14.8	50.73	7.7	33.61	8.2	ns	ns
I40	04 Feb 2016	1103	6	80e	<2	2e	0.02	14.7	49.64	7.8	33.62	8.2	ns	ns
I40	04 Feb 2016	1103	9	300e	4e	2e	0.01	14.5	44.19	7.8	33.62	8.2	ns	ns
I40	10 Feb 2016	918	2	17000e	1200	220e	0.07	14.8	66.30	7.7	33.52	7.9	<0.2	4.7
I40	10 Feb 2016	918	6	2600e	200e	130e	0.08	14.8	65.94	7.5	33.58	7.9	ns	4.0
I40	10 Feb 2016	918	9	1000	74	46	0.07	14.8	55.94	7.5	33.58	7.9	ns	5.9
I40	20 Feb 2016		2	<2	<2	<2	1.00	16.6	45.84	7.7	33.57	8.2	ns	ns
I40	20 Feb 2016		6	2e	<2	<2	1.00	16.4	48.41	7.6	33.57	8.2	ns	ns
I40	20 Feb 2016		9	<2	<2	<2	1.00	16.2	45.72	7.3	33.56	8.2	ns	ns
I40	23 Feb 2016	1130	2	<2	<2	<2	1.00	16.6	69.20	7.6	33.56	8.2	ns	ns
I40	23 Feb 2016	1130	6	<2	<2	<2	1.00	16.2	58.51	7.7	33.55	8.2	ns	ns
I40	23 Feb 2016	1130	9	2e	<2	<2	1.00	15.9	46.18	7.8	33.55	8.2	ns	ns
I40	29 Feb 2016	1207	2	<2	<2	<2	1.00	16.9	63.82	8.0	33.55	8.0	ns	ns
I40	29 Feb 2016	1207	6	<2	<2	<2	1.00	16.7	55.81	7.9	33.55	8.0	ns	ns
I40	29 Feb 2016	1207	9	2e	<2	<2	1.00	16.5	50.25	7.8	33.55	8.0	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 Feb 2016	Depth (m)	11
I19	04 Feb 2016	Arrive Time	1050
I19	04 Feb 2016	Depart Time	1053
I19	04 Feb 2016	Air Temp (C)	14
I19	04 Feb 2016	Weather	Partly Cloudy
I19	04 Feb 2016	Visibility (mi)	9
I19	04 Feb 2016	Wind Speed (kts)	11
I19	04 Feb 2016	Wind Dir	SE
I19	04 Feb 2016	Water Color	Greenish-Blue
I19	04 Feb 2016	Wave Ht Low (ft)	3
I19	04 Feb 2016	Wave Period (sec)	16
I19	04 Feb 2016	Sea State	Wind ripples
I19	04 Feb 2016	High Tide (ft)	5.07
I19	04 Feb 2016	High Tide Time	543
I19	04 Feb 2016	Low Tide (ft)	-0.17
I19	04 Feb 2016	Low Tide Time	1302
I19	04 Feb 2016	Comments	TJ River Plume Visible; Unable to obtain station depth
I19	10 Feb 2016	Depth (m)	12
I19	10 Feb 2016	Arrive Time	935
I19	10 Feb 2016	Depart Time	939
I19	10 Feb 2016	Air Temp (C)	16
I19	10 Feb 2016	Weather	Clear
I19	10 Feb 2016	Visibility (mi)	12
I19	10 Feb 2016	Wind Speed (kts)	3
I19	10 Feb 2016	Wind Dir	SE
I19	10 Feb 2016	Water Color	Green
I19	10 Feb 2016	Wave Ht Low (ft)	1
I19	10 Feb 2016	Wave Period (sec)	9
I19	10 Feb 2016	Sea State	Calm
I19	10 Feb 2016	High Tide (ft)	5.74
I19	10 Feb 2016	High Tide Time	948
I19	10 Feb 2016	Low Tide (ft)	0.68
I19	10 Feb 2016	Low Tide Time	348
I19	10 Feb 2016	Comments	
I19	20 Feb 2016	Depth (m)	11
I19	20 Feb 2016	Arrive Time	1025
I19	20 Feb 2016	Depart Time	1028
I19	20 Feb 2016	Air Temp (C)	16
I19	20 Feb 2016	Weather	Partly Cloudy
I19	20 Feb 2016	Visibility (mi)	7
I19	20 Feb 2016	Wind Speed (kts)	4
I19	20 Feb 2016	Wind Dir	NE
I19	20 Feb 2016	Water Color	Greenish-Blue
I19	20 Feb 2016	Wave Ht Low (ft)	3
I19	20 Feb 2016	Wave Period (sec)	7
I19	20 Feb 2016	Sea State	Light chop
I19	20 Feb 2016	High Tide (ft)	5.66
I19	20 Feb 2016	High Tide Time	718
I19	20 Feb 2016	Low Tide (ft)	-0.86

Station	Date	Parameter	Value
I19	20 Feb 2016	Low Tide Time	1416
I19	20 Feb 2016	Comments	
I19	23 Feb 2016	Depth (m)	12
I19	23 Feb 2016	Arrive Time	1119
I19	23 Feb 2016	Depart Time	1124
I19	23 Feb 2016	Air Temp (C)	16
I19	23 Feb 2016	Weather	Haze
I19	23 Feb 2016	Visibility (mi)	6
I19	23 Feb 2016	Wind Speed (kts)	3
I19	23 Feb 2016	Wind Dir	NE
I19	23 Feb 2016	Water Color	Green
I19	23 Feb 2016	Wave Ht Low (ft)	3
I19	23 Feb 2016	Wave Period (sec)	7
I19	23 Feb 2016	Sea State	Light chop
I19	23 Feb 2016	High Tide (ft)	5.3
I19	23 Feb 2016	High Tide Time	903
I19	23 Feb 2016	Low Tide (ft)	-0.38
I19	23 Feb 2016	Low Tide Time	1541
I19	23 Feb 2016	Comments	
I19	29 Feb 2016	Depth (m)	11
I19	29 Feb 2016	Arrive Time	1149
I19	29 Feb 2016	Depart Time	1159
I19	29 Feb 2016	Air Temp (C)	14
I19	29 Feb 2016	Weather	Fog
I19	29 Feb 2016	Visibility (mi)	4
I19	29 Feb 2016	Wind Speed (kts)	2
I19	29 Feb 2016	Wind Dir	NE
I19	29 Feb 2016	Water Color	Green
I19	29 Feb 2016	Wave Ht Low (ft)	3
I19	29 Feb 2016	Wave Period (sec)	11
I19	29 Feb 2016	Sea State	Calm
I19	29 Feb 2016	High Tide (ft)	2.59
I19	29 Feb 2016	High Tide Time	1335
I19	29 Feb 2016	Low Tide (ft)	1.42
I19	29 Feb 2016	Low Tide Time	749
I19	29 Feb 2016	Comments	Kelp debris
I24	04 Feb 2016	Depth (m)	10
I24	04 Feb 2016	Arrive Time	1113
I24	04 Feb 2016	Depart Time	1116
I24	04 Feb 2016	Air Temp (C)	15
I24	04 Feb 2016	Weather	Partly Cloudy
I24	04 Feb 2016	Visibility (mi)	9
I24	04 Feb 2016	Wind Speed (kts)	6
I24	04 Feb 2016	Wind Dir	W
I24	04 Feb 2016	Water Color	Greenish-Blue
I24	04 Feb 2016	Wave Ht Low (ft)	3
I24	04 Feb 2016	Wave Period (sec)	16
I24	04 Feb 2016	Sea State	Wind ripples
I24	04 Feb 2016	High Tide (ft)	5.07
I24	04 Feb 2016	High Tide Time	543
I24	04 Feb 2016	Low Tide (ft)	-0.17
I24	04 Feb 2016	Low Tide Time	1302

Station	Date	Parameter	Value
I24	04 Feb 2016	Comments	Water sample taken at 10m; Unable to obtain station depth
I24	10 Feb 2016	Depth (m)	11
I24	10 Feb 2016	Arrive Time	904
I24	10 Feb 2016	Depart Time	913
I24	10 Feb 2016	Air Temp (C)	18
I24	10 Feb 2016	Weather	Clear
I24	10 Feb 2016	Visibility (mi)	12
I24	10 Feb 2016	Wind Speed (kts)	4
I24	10 Feb 2016	Wind Dir	E
I24	10 Feb 2016	Water Color	Green
I24	10 Feb 2016	Wave Ht Low (ft)	2
I24	10 Feb 2016	Wave Period (sec)	9
I24	10 Feb 2016	Sea State	Calm
I24	10 Feb 2016	High Tide (ft)	5.74
I24	10 Feb 2016	High Tide Time	948
I24	10 Feb 2016	Low Tide (ft)	0.68
I24	10 Feb 2016	Low Tide Time	348
I24	10 Feb 2016	Comments	
I24	20 Feb 2016	Depth (m)	11
I24	20 Feb 2016	Arrive Time	1045
I24	20 Feb 2016	Depart Time	1048
I24	20 Feb 2016	Air Temp (C)	16
I24	20 Feb 2016	Weather	Partly Cloudy
I24	20 Feb 2016	Visibility (mi)	7
I24	20 Feb 2016	Wind Speed (kts)	3
I24	20 Feb 2016	Wind Dir	NE
I24	20 Feb 2016	Water Color	Greenish-Blue
I24	20 Feb 2016	Wave Ht Low (ft)	3
I24	20 Feb 2016	Wave Period (sec)	7
I24	20 Feb 2016	Sea State	Light chop
I24	20 Feb 2016	High Tide (ft)	5.66
I24	20 Feb 2016	High Tide Time	718
I24	20 Feb 2016	Low Tide (ft)	-0.86
I24	20 Feb 2016	Low Tide Time	1416
I24	20 Feb 2016	Comments	
I24	23 Feb 2016	Depth (m)	12
I24	23 Feb 2016	Arrive Time	1144
I24	23 Feb 2016	Depart Time	1148
I24	23 Feb 2016	Air Temp (C)	16
I24	23 Feb 2016	Weather	Haze
I24	23 Feb 2016	Visibility (mi)	8
I24	23 Feb 2016	Wind Speed (kts)	7
I24	23 Feb 2016	Wind Dir	SE
I24	23 Feb 2016	Water Color	Green
I24	23 Feb 2016	Wave Ht Low (ft)	3
I24	23 Feb 2016	Wave Period (sec)	7
I24	23 Feb 2016	Sea State	Light chop
I24	23 Feb 2016	High Tide (ft)	5.3
I24	23 Feb 2016	High Tide Time	903
I24	23 Feb 2016	Low Tide (ft)	-0.38
I24	23 Feb 2016	Low Tide Time	1541
I24	23 Feb 2016	Comments	

Station	Date	Parameter	Value
I24	29 Feb 2016	Depth (m)	10
I24	29 Feb 2016	Arrive Time	1216
I24	29 Feb 2016	Depart Time	1219
I24	29 Feb 2016	Air Temp (C)	15
I24	29 Feb 2016	Weather	Fog
I24	29 Feb 2016	Visibility (mi)	4
I24	29 Feb 2016	Wind Speed (kts)	7
I24	29 Feb 2016	Wind Dir	W
I24	29 Feb 2016	Water Color	Green
I24	29 Feb 2016	Wave Ht Low (ft)	3
I24	29 Feb 2016	Wave Period (sec)	11
I24	29 Feb 2016	Sea State	Calm
I24	29 Feb 2016	High Tide (ft)	2.59
I24	29 Feb 2016	High Tide Time	1335
I24	29 Feb 2016	Low Tide (ft)	1.42
I24	29 Feb 2016	Low Tide Time	749
I24	29 Feb 2016	Comments	
I25	04 Feb 2016	Depth (m)	9
I25	04 Feb 2016	Arrive Time	1121
I25	04 Feb 2016	Depart Time	1126
I25	04 Feb 2016	Air Temp (C)	15
I25	04 Feb 2016	Weather	Partly Cloudy
I25	04 Feb 2016	Visibility (mi)	9
I25	04 Feb 2016	Wind Speed (kts)	6
I25	04 Feb 2016	Wind Dir	E
I25	04 Feb 2016	Water Color	Greenish-Blue
I25	04 Feb 2016	Wave Ht Low (ft)	3
I25	04 Feb 2016	Wave Period (sec)	16
I25	04 Feb 2016	Sea State	Wind ripples
I25	04 Feb 2016	High Tide (ft)	5.07
I25	04 Feb 2016	High Tide Time	543
I25	04 Feb 2016	Low Tide (ft)	-0.17
I25	04 Feb 2016	Low Tide Time	1302
I25	04 Feb 2016	Comments	
I25	10 Feb 2016	Depth (m)	10
I25	10 Feb 2016	Arrive Time	857
I25	10 Feb 2016	Depart Time	859
I25	10 Feb 2016	Air Temp (C)	18
I25	10 Feb 2016	Weather	Clear
I25	10 Feb 2016	Visibility (mi)	12
I25	10 Feb 2016	Wind Speed (kts)	3
I25	10 Feb 2016	Wind Dir	E
I25	10 Feb 2016	Water Color	Green
I25	10 Feb 2016	Wave Ht Low (ft)	2
I25	10 Feb 2016	Wave Period (sec)	9
I25	10 Feb 2016	Sea State	Calm
I25	10 Feb 2016	High Tide (ft)	5.74
I25	10 Feb 2016	High Tide Time	948
I25	10 Feb 2016	Low Tide (ft)	0.68
I25	10 Feb 2016	Low Tide Time	348
I25	10 Feb 2016	Comments	

Station	Date	Parameter	Value
I25	20 Feb 2016	Depth (m)	10
I25	20 Feb 2016	Arrive Time	1054
I25	20 Feb 2016	Depart Time	1057
I25	20 Feb 2016	Air Temp (C)	16
I25	20 Feb 2016	Weather	Haze
I25	20 Feb 2016	Visibility (mi)	7
I25	20 Feb 2016	Wind Speed (kts)	2
I25	20 Feb 2016	Wind Dir	W
I25	20 Feb 2016	Water Color	Greenish-Blue
I25	20 Feb 2016	Wave Ht Low (ft)	3
I25	20 Feb 2016	Wave Period (sec)	7
I25	20 Feb 2016	Sea State	Light chop
I25	20 Feb 2016	High Tide (ft)	5.66
I25	20 Feb 2016	High Tide Time	718
I25	20 Feb 2016	Low Tide (ft)	-0.86
I25	20 Feb 2016	Low Tide Time	1416
I25	20 Feb 2016	Comments	
I25	23 Feb 2016	Depth (m)	10
I25	23 Feb 2016	Arrive Time	1152
I25	23 Feb 2016	Depart Time	1155
I25	23 Feb 2016	Air Temp (C)	16
I25	23 Feb 2016	Weather	Haze
I25	23 Feb 2016	Visibility (mi)	8
I25	23 Feb 2016	Wind Speed (kts)	7
I25	23 Feb 2016	Wind Dir	S
I25	23 Feb 2016	Water Color	Green
I25	23 Feb 2016	Wave Ht Low (ft)	3
I25	23 Feb 2016	Wave Period (sec)	7
I25	23 Feb 2016	Sea State	Light chop
I25	23 Feb 2016	High Tide (ft)	5.3
I25	23 Feb 2016	High Tide Time	903
I25	23 Feb 2016	Low Tide (ft)	-0.38
I25	23 Feb 2016	Low Tide Time	1541
I25	23 Feb 2016	Comments	
I25	29 Feb 2016	Depth (m)	9
I25	29 Feb 2016	Arrive Time	1225
I25	29 Feb 2016	Depart Time	1228
I25	29 Feb 2016	Air Temp (C)	15
I25	29 Feb 2016	Weather	Fog
I25	29 Feb 2016	Visibility (mi)	4
I25	29 Feb 2016	Wind Speed (kts)	3
I25	29 Feb 2016	Wind Dir	E
I25	29 Feb 2016	Water Color	Green
I25	29 Feb 2016	Wave Ht Low (ft)	3
I25	29 Feb 2016	Wave Period (sec)	11
I25	29 Feb 2016	Sea State	Calm
I25	29 Feb 2016	High Tide (ft)	2.59
I25	29 Feb 2016	High Tide Time	1335
I25	29 Feb 2016	Low Tide (ft)	1.42
I25	29 Feb 2016	Low Tide Time	749
I25	29 Feb 2016	Comments	
I26	04 Feb 2016	Depth (m)	9

Station	Date	Parameter	Value
I26	04 Feb 2016	Arrive Time	1132
I26	04 Feb 2016	Depart Time	1136
I26	04 Feb 2016	Air Temp (C)	15
I26	04 Feb 2016	Weather	Partly Cloudy
I26	04 Feb 2016	Visibility (mi)	9
I26	04 Feb 2016	Wind Speed (kts)	5
I26	04 Feb 2016	Wind Dir	NE
I26	04 Feb 2016	Water Color	Greenish-Blue
I26	04 Feb 2016	Wave Ht Low (ft)	3
I26	04 Feb 2016	Wave Period (sec)	16
I26	04 Feb 2016	Sea State	Wind ripples
I26	04 Feb 2016	High Tide (ft)	5.07
I26	04 Feb 2016	High Tide Time	543
I26	04 Feb 2016	Low Tide (ft)	-0.17
I26	04 Feb 2016	Low Tide Time	1302
I26	04 Feb 2016	Comments	
I26	10 Feb 2016	Depth (m)	11
I26	10 Feb 2016	Arrive Time	845
I26	10 Feb 2016	Depart Time	849
I26	10 Feb 2016	Air Temp (C)	17
I26	10 Feb 2016	Weather	Clear
I26	10 Feb 2016	Visibility (mi)	12
I26	10 Feb 2016	Wind Speed (kts)	3
I26	10 Feb 2016	Wind Dir	SW
I26	10 Feb 2016	Water Color	Green
I26	10 Feb 2016	Wave Ht Low (ft)	2
I26	10 Feb 2016	Wave Period (sec)	9
I26	10 Feb 2016	Sea State	Calm
I26	10 Feb 2016	High Tide (ft)	5.74
I26	10 Feb 2016	High Tide Time	948
I26	10 Feb 2016	Low Tide (ft)	0.68
I26	10 Feb 2016	Low Tide Time	348
I26	10 Feb 2016	Comments	
I26	20 Feb 2016	Depth (m)	10
I26	20 Feb 2016	Arrive Time	1104
I26	20 Feb 2016	Depart Time	1107
I26	20 Feb 2016	Air Temp (C)	16
I26	20 Feb 2016	Weather	Haze
I26	20 Feb 2016	Visibility (mi)	7
I26	20 Feb 2016	Wind Speed (kts)	2
I26	20 Feb 2016	Wind Dir	S
I26	20 Feb 2016	Water Color	Greenish-Blue
I26	20 Feb 2016	Wave Ht Low (ft)	3
I26	20 Feb 2016	Wave Period (sec)	7
I26	20 Feb 2016	Sea State	Light chop
I26	20 Feb 2016	High Tide (ft)	5.66
I26	20 Feb 2016	High Tide Time	718
I26	20 Feb 2016	Low Tide (ft)	-0.86
I26	20 Feb 2016	Low Tide Time	1416
I26	20 Feb 2016	Comments	
I26	23 Feb 2016	Depth (m)	10
I26	23 Feb 2016	Arrive Time	1202

Station	Date	Parameter	Value
I26	23 Feb 2016	Depart Time	1205
I26	23 Feb 2016	Air Temp (C)	16
I26	23 Feb 2016	Weather	Haze
I26	23 Feb 2016	Visibility (mi)	8
I26	23 Feb 2016	Wind Speed (kts)	6
I26	23 Feb 2016	Wind Dir	NE
I26	23 Feb 2016	Water Color	Green
I26	23 Feb 2016	Wave Ht Low (ft)	3
I26	23 Feb 2016	Wave Period (sec)	7
I26	23 Feb 2016	Sea State	Light chop
I26	23 Feb 2016	High Tide (ft)	5.3
I26	23 Feb 2016	High Tide Time	903
I26	23 Feb 2016	Low Tide (ft)	-0.38
I26	23 Feb 2016	Low Tide Time	1541
I26	23 Feb 2016	Comments	
I26	29 Feb 2016	Depth (m)	10
I26	29 Feb 2016	Arrive Time	1235
I26	29 Feb 2016	Depart Time	1238
I26	29 Feb 2016	Air Temp (C)	15
I26	29 Feb 2016	Weather	Fog
I26	29 Feb 2016	Visibility (mi)	4
I26	29 Feb 2016	Wind Speed (kts)	4
I26	29 Feb 2016	Wind Dir	SW
I26	29 Feb 2016	Water Color	Green
I26	29 Feb 2016	Wave Ht Low (ft)	3
I26	29 Feb 2016	Wave Period (sec)	11
I26	29 Feb 2016	Sea State	Calm
I26	29 Feb 2016	High Tide (ft)	2.59
I26	29 Feb 2016	High Tide Time	1335
I26	29 Feb 2016	Low Tide (ft)	1.42
I26	29 Feb 2016	Low Tide Time	749
I26	29 Feb 2016	Comments	Kelp debris
I32	04 Feb 2016	Depth (m)	9
I32	04 Feb 2016	Arrive Time	1144
I32	04 Feb 2016	Depart Time	1147
I32	04 Feb 2016	Air Temp (C)	15
I32	04 Feb 2016	Weather	Partly Cloudy
I32	04 Feb 2016	Visibility (mi)	9
I32	04 Feb 2016	Wind Speed (kts)	6
I32	04 Feb 2016	Wind Dir	S
I32	04 Feb 2016	Water Color	Greenish-Blue
I32	04 Feb 2016	Wave Ht Low (ft)	3
I32	04 Feb 2016	Wave Period (sec)	16
I32	04 Feb 2016	Sea State	Wind ripples
I32	04 Feb 2016	High Tide (ft)	5.07
I32	04 Feb 2016	High Tide Time	543
I32	04 Feb 2016	Low Tide (ft)	-0.17
I32	04 Feb 2016	Low Tide Time	1302
I32	04 Feb 2016	Comments	
I32	11 Feb 2016	Depth (m)	12
I32	11 Feb 2016	Arrive Time	1034
I32	11 Feb 2016	Depart Time	1036

Station	Date	Parameter	Value
I32	11 Feb 2016	Air Temp (C)	18
I32	11 Feb 2016	Weather	Clear
I32	11 Feb 2016	Visibility (mi)	10
I32	11 Feb 2016	Wind Speed (kts)	3
I32	11 Feb 2016	Wind Dir	E
I32	11 Feb 2016	Water Color	Green
I32	11 Feb 2016	Wave Ht Low (ft)	2
I32	11 Feb 2016	Wave Period (sec)	16
I32	11 Feb 2016	Sea State	Calm
I32	11 Feb 2016	High Tide (ft)	5.18
I32	11 Feb 2016	High Tide Time	1034
I32	11 Feb 2016	Low Tide (ft)	0.68
I32	11 Feb 2016	Low Tide Time	439
I32	11 Feb 2016	Comments	
I32	20 Feb 2016	Depth (m)	10
I32	20 Feb 2016	Arrive Time	1114
I32	20 Feb 2016	Depart Time	1129
I32	20 Feb 2016	Air Temp (C)	16
I32	20 Feb 2016	Weather	Haze
I32	20 Feb 2016	Visibility (mi)	7
I32	20 Feb 2016	Wind Speed (kts)	4
I32	20 Feb 2016	Wind Dir	S
I32	20 Feb 2016	Water Color	Greenish-Blue
I32	20 Feb 2016	Wave Ht Low (ft)	3
I32	20 Feb 2016	Wave Period (sec)	7
I32	20 Feb 2016	Sea State	Light chop
I32	20 Feb 2016	High Tide (ft)	5.66
I32	20 Feb 2016	High Tide Time	718
I32	20 Feb 2016	Low Tide (ft)	-0.86
I32	20 Feb 2016	Low Tide Time	1416
I32	20 Feb 2016	Comments	
I32	23 Feb 2016	Depth (m)	10
I32	23 Feb 2016	Arrive Time	1220
I32	23 Feb 2016	Depart Time	1222
I32	23 Feb 2016	Air Temp (C)	16
I32	23 Feb 2016	Weather	Haze
I32	23 Feb 2016	Visibility (mi)	8
I32	23 Feb 2016	Wind Speed (kts)	3
I32	23 Feb 2016	Wind Dir	NW
I32	23 Feb 2016	Water Color	Green
I32	23 Feb 2016	Wave Ht Low (ft)	3
I32	23 Feb 2016	Wave Period (sec)	7
I32	23 Feb 2016	Sea State	Light chop
I32	23 Feb 2016	High Tide (ft)	5.3
I32	23 Feb 2016	High Tide Time	903
I32	23 Feb 2016	Low Tide (ft)	-0.38
I32	23 Feb 2016	Low Tide Time	1541
I32	23 Feb 2016	Comments	
I32	29 Feb 2016	Depth (m)	9
I32	29 Feb 2016	Arrive Time	1247
I32	29 Feb 2016	Depart Time	1250
I32	29 Feb 2016	Air Temp (C)	15

Station	Date	Parameter	Value
I32	29 Feb 2016	Weather	Fog
I32	29 Feb 2016	Visibility (mi)	4
I32	29 Feb 2016	Wind Speed (kts)	8
I32	29 Feb 2016	Wind Dir	S
I32	29 Feb 2016	Water Color	Green
I32	29 Feb 2016	Wave Ht Low (ft)	3
I32	29 Feb 2016	Wave Period (sec)	11
I32	29 Feb 2016	Sea State	Calm
I32	29 Feb 2016	High Tide (ft)	2.59
I32	29 Feb 2016	High Tide Time	1335
I32	29 Feb 2016	Low Tide (ft)	1.42
I32	29 Feb 2016	Low Tide Time	749
I32	29 Feb 2016	Comments	
I39	04 Feb 2016	Depth (m)	19
I39	04 Feb 2016	Arrive Time	1030
I39	04 Feb 2016	Depart Time	1035
I39	04 Feb 2016	Air Temp (C)	14
I39	04 Feb 2016	Weather	Partly Cloudy
I39	04 Feb 2016	Visibility (mi)	9
I39	04 Feb 2016	Wind Speed (kts)	6
I39	04 Feb 2016	Wind Dir	SE
I39	04 Feb 2016	Water Color	Greenish-Blue
I39	04 Feb 2016	Wave Ht Low (ft)	3
I39	04 Feb 2016	Wave Period (sec)	16
I39	04 Feb 2016	Sea State	Wind ripples
I39	04 Feb 2016	High Tide (ft)	5.07
I39	04 Feb 2016	High Tide Time	543
I39	04 Feb 2016	Low Tide (ft)	-0.17
I39	04 Feb 2016	Low Tide Time	1302
I39	04 Feb 2016	Comments	
I39	10 Feb 2016	Depth (m)	20
I39	10 Feb 2016	Arrive Time	831
I39	10 Feb 2016	Depart Time	835
I39	10 Feb 2016	Air Temp (C)	17
I39	10 Feb 2016	Weather	Clear
I39	10 Feb 2016	Visibility (mi)	12
I39	10 Feb 2016	Wind Speed (kts)	7
I39	10 Feb 2016	Wind Dir	NE
I39	10 Feb 2016	Water Color	Green
I39	10 Feb 2016	Wave Ht Low (ft)	2
I39	10 Feb 2016	Wave Period (sec)	9
I39	10 Feb 2016	Sea State	Calm
I39	10 Feb 2016	High Tide (ft)	5.74
I39	10 Feb 2016	High Tide Time	948
I39	10 Feb 2016	Low Tide (ft)	0.68
I39	10 Feb 2016	Low Tide Time	348
I39	10 Feb 2016	Comments	
I39	20 Feb 2016	Depth (m)	19
I39	20 Feb 2016	Arrive Time	1007
I39	20 Feb 2016	Depart Time	1010
I39	20 Feb 2016	Air Temp (C)	15
I39	20 Feb 2016	Weather	Partly Cloudy

Station	Date	Parameter	Value
I39	20 Feb 2016	Visibility (mi)	7
I39	20 Feb 2016	Wind Speed (kts)	4
I39	20 Feb 2016	Wind Dir	W
I39	20 Feb 2016	Water Color	Greenish-Blue
I39	20 Feb 2016	Wave Ht Low (ft)	3
I39	20 Feb 2016	Wave Period (sec)	7
I39	20 Feb 2016	Sea State	Light chop
I39	20 Feb 2016	High Tide (ft)	5.66
I39	20 Feb 2016	High Tide Time	718
I39	20 Feb 2016	Low Tide (ft)	-0.86
I39	20 Feb 2016	Low Tide Time	1416
I39	20 Feb 2016	Comments	
I39	23 Feb 2016	Depth (m)	19
I39	23 Feb 2016	Arrive Time	1058
I39	23 Feb 2016	Depart Time	1102
I39	23 Feb 2016	Air Temp (C)	16
I39	23 Feb 2016	Weather	Haze
I39	23 Feb 2016	Visibility (mi)	6
I39	23 Feb 2016	Wind Speed (kts)	2
I39	23 Feb 2016	Wind Dir	N
I39	23 Feb 2016	Water Color	Green
I39	23 Feb 2016	Wave Ht Low (ft)	3
I39	23 Feb 2016	Wave Period (sec)	7
I39	23 Feb 2016	Sea State	Light chop
I39	23 Feb 2016	High Tide (ft)	5.3
I39	23 Feb 2016	High Tide Time	903
I39	23 Feb 2016	Low Tide (ft)	-0.38
I39	23 Feb 2016	Low Tide Time	1541
I39	23 Feb 2016	Comments	
I39	29 Feb 2016	Depth (m)	19
I39	29 Feb 2016	Arrive Time	1130
I39	29 Feb 2016	Depart Time	1135
I39	29 Feb 2016	Air Temp (C)	14
I39	29 Feb 2016	Weather	Fog
I39	29 Feb 2016	Visibility (mi)	4
I39	29 Feb 2016	Wind Speed (kts)	3
I39	29 Feb 2016	Wind Dir	SW
I39	29 Feb 2016	Water Color	Green
I39	29 Feb 2016	Wave Ht Low (ft)	3
I39	29 Feb 2016	Wave Period (sec)	11
I39	29 Feb 2016	Sea State	Calm
I39	29 Feb 2016	High Tide (ft)	2.59
I39	29 Feb 2016	High Tide Time	1335
I39	29 Feb 2016	Low Tide (ft)	1.42
I39	29 Feb 2016	Low Tide Time	749
I39	29 Feb 2016	Comments	Kelp debris;
I40	04 Feb 2016	Depth (m)	10
I40	04 Feb 2016	Arrive Time	1103
I40	04 Feb 2016	Depart Time	1108
I40	04 Feb 2016	Air Temp (C)	14
I40	04 Feb 2016	Weather	Partly Cloudy
I40	04 Feb 2016	Visibility (mi)	9

Station	Date	Parameter	Value
I40	04 Feb 2016	Wind Speed (kts)	8
I40	04 Feb 2016	Wind Dir	W
I40	04 Feb 2016	Water Color	Greenish-Blue
I40	04 Feb 2016	Wave Ht Low (ft)	3
I40	04 Feb 2016	Wave Period (sec)	16
I40	04 Feb 2016	Sea State	Wind ripples
I40	04 Feb 2016	High Tide (ft)	5.07
I40	04 Feb 2016	High Tide Time	543
I40	04 Feb 2016	Low Tide (ft)	-0.17
I40	04 Feb 2016	Low Tide Time	1302
I40	04 Feb 2016	Comments	
I40	10 Feb 2016	Depth (m)	11
I40	10 Feb 2016	Arrive Time	918
I40	10 Feb 2016	Depart Time	922
I40	10 Feb 2016	Air Temp (C)	17
I40	10 Feb 2016	Weather	Clear
I40	10 Feb 2016	Visibility (mi)	12
I40	10 Feb 2016	Wind Speed (kts)	3
I40	10 Feb 2016	Wind Dir	NE
I40	10 Feb 2016	Water Color	Green
I40	10 Feb 2016	Wave Ht Low (ft)	1
I40	10 Feb 2016	Wave Period (sec)	9
I40	10 Feb 2016	Sea State	Calm
I40	10 Feb 2016	High Tide (ft)	5.74
I40	10 Feb 2016	High Tide Time	948
I40	10 Feb 2016	Low Tide (ft)	0.68
I40	10 Feb 2016	Low Tide Time	348
I40	10 Feb 2016	Comments	
I40	20 Feb 2016	Depth (m)	11
I40	20 Feb 2016	Arrive Time	1037
I40	20 Feb 2016	Depart Time	1041
I40	20 Feb 2016	Air Temp (C)	16
I40	20 Feb 2016	Weather	Partly Cloudy
I40	20 Feb 2016	Visibility (mi)	7
I40	20 Feb 2016	Wind Speed (kts)	6
I40	20 Feb 2016	Wind Dir	NE
I40	20 Feb 2016	Water Color	Greenish-Blue
I40	20 Feb 2016	Wave Ht Low (ft)	3
I40	20 Feb 2016	Wave Period (sec)	7
I40	20 Feb 2016	Sea State	Light chop
I40	20 Feb 2016	High Tide (ft)	5.66
I40	20 Feb 2016	High Tide Time	718
I40	20 Feb 2016	Low Tide (ft)	-0.86
I40	20 Feb 2016	Low Tide Time	1416
I40	20 Feb 2016	Comments	Lots of Seagulls and Western Grebes on station
I40	23 Feb 2016	Depth (m)	11
I40	23 Feb 2016	Arrive Time	1130
I40	23 Feb 2016	Depart Time	1138
I40	23 Feb 2016	Air Temp (C)	16
I40	23 Feb 2016	Weather	Haze
I40	23 Feb 2016	Visibility (mi)	6
I40	23 Feb 2016	Wind Speed (kts)	5

Station	Date	Parameter	Value
I40	23 Feb 2016	Wind Dir	NE
I40	23 Feb 2016	Water Color	Green
I40	23 Feb 2016	Wave Ht Low (ft)	3
I40	23 Feb 2016	Wave Period (sec)	7
I40	23 Feb 2016	Sea State	Light chop
I40	23 Feb 2016	High Tide (ft)	5.3
I40	23 Feb 2016	High Tide Time	903
I40	23 Feb 2016	Low Tide (ft)	-0.38
I40	23 Feb 2016	Low Tide Time	1541
I40	23 Feb 2016	Comments	
I40	29 Feb 2016	Depth (m)	10
I40	29 Feb 2016	Arrive Time	1207
I40	29 Feb 2016	Depart Time	1210
I40	29 Feb 2016	Air Temp (C)	14
I40	29 Feb 2016	Weather	Fog
I40	29 Feb 2016	Visibility (mi)	4
I40	29 Feb 2016	Wind Speed (kts)	3
I40	29 Feb 2016	Wind Dir	SW
I40	29 Feb 2016	Water Color	Green
I40	29 Feb 2016	Wave Ht Low (ft)	3
I40	29 Feb 2016	Wave Period (sec)	11
I40	29 Feb 2016	Sea State	Calm
I40	29 Feb 2016	High Tide (ft)	2.59
I40	29 Feb 2016	High Tide Time	1335
I40	29 Feb 2016	Low Tide (ft)	1.42
I40	29 Feb 2016	Low Tide Time	749
I40	29 Feb 2016	Comments	

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 (σ -t)	Chlor (μ g/L)
I19	04 Feb 2016	1	14.79	54.50	7.6	33.44	8.1	24.8	1.54
I19	04 Feb 2016	2	14.79	55.49	7.5	33.51	8.1	24.9	1.85
I19	04 Feb 2016	3	14.77	58.18	7.5	33.56	8.1	24.9	2.55
I19	04 Feb 2016	4	14.73	60.45	7.5	33.56	8.1	24.9	3.02
I19	04 Feb 2016	5	14.71	62.61	7.5	33.57	8.1	24.9	3.39
I19	04 Feb 2016	6	14.70	63.09	7.5	33.57	8.1	24.9	3.46
I19	04 Feb 2016	7	14.70	63.74	7.5	33.57	8.1	24.9	3.37
I19	04 Feb 2016	8	14.70	63.82	7.4	33.57	8.1	24.9	3.39
I19	04 Feb 2016	9	14.69	64.08	7.4	33.57	8.1	24.9	3.28
I19	04 Feb 2016	10	14.69	62.60	7.4	33.57	8.1	24.9	3.19
I19	10 Feb 2016	1	14.88	67.45	7.6	33.59	7.9	24.9	1.36
I19	10 Feb 2016	2	14.88	67.66	7.6	33.59	7.9	24.9	1.62
I19	10 Feb 2016	3	14.86	67.41	7.6	33.59	7.9	24.9	2.05
I19	10 Feb 2016	4	14.84	66.79	7.6	33.59	7.9	24.9	2.28
I19	10 Feb 2016	5	14.82	66.39	7.6	33.59	7.9	24.9	2.49
I19	10 Feb 2016	6	14.80	65.93	7.5	33.59	7.9	24.9	2.44
I19	10 Feb 2016	7	14.79	64.70	7.5	33.59	7.9	24.9	2.64
I19	10 Feb 2016	8	14.79	64.11	7.5	33.59	7.9	24.9	2.52
I19	10 Feb 2016	9	14.78	63.21	7.5	33.59	7.9	24.9	2.77
I19	10 Feb 2016	10	14.76	61.94	7.5	33.58	7.9	24.9	2.82
I19	20 Feb 2016	1	16.54	56.94	7.6	33.57	8.2	24.5	0.86
I19	20 Feb 2016	2	16.53	56.99	7.6	33.57	8.2	24.5	0.87
I19	20 Feb 2016	3	16.48	56.99	7.6	33.57	8.2	24.5	0.99
I19	20 Feb 2016	4	16.41	56.65	7.7	33.57	8.2	24.6	1.42
I19	20 Feb 2016	5	16.38	55.60	7.6	33.57	8.2	24.6	1.88
I19	20 Feb 2016	6	16.31	52.75	7.6	33.57	8.2	24.6	2.30
I19	20 Feb 2016	7	16.27	50.73	7.6	33.56	8.2	24.6	2.41
I19	20 Feb 2016	8	16.14	50.81	7.6	33.56	8.2	24.6	2.50
I19	20 Feb 2016	9	16.04	49.98	7.5	33.55	8.2	24.6	2.55
I19	20 Feb 2016	10	15.86	41.10	7.4	33.55	8.2	24.7	2.85
I19	23 Feb 2016	1	16.59	72.11	7.8	33.55	8.2	24.5	0.61
I19	23 Feb 2016	2	16.64	72.23	7.7	33.55	8.2	24.5	0.58
I19	23 Feb 2016	3	16.41	71.70	7.7	33.56	8.2	24.5	0.69
I19	23 Feb 2016	4	16.23	67.00	7.7	33.55	8.2	24.6	1.02
I19	23 Feb 2016	5	16.12	61.54	7.8	33.55	8.2	24.6	1.60
I19	23 Feb 2016	6	16.09	58.07	7.8	33.54	8.2	24.6	2.08
I19	23 Feb 2016	7	15.96	53.22	7.8	33.53	8.2	24.6	2.45
I19	23 Feb 2016	8	15.82	45.98	7.7	33.52	8.1	24.7	2.67
I19	23 Feb 2016	9	15.57	49.60	7.3	33.53	8.1	24.7	2.81
I19	23 Feb 2016	10	15.31	56.63	7.1	33.52	8.1	24.8	2.98
I19	29 Feb 2016	1	16.94	77.68	8.0	33.53	8.0	24.4	0.82
I19	29 Feb 2016	2	16.92	77.73	8.0	33.55	8.0	24.4	0.84
I19	29 Feb 2016	3	16.70	78.13	8.0	33.55	8.0	24.5	0.94
I19	29 Feb 2016	4	16.62	77.18	8.0	33.55	8.0	24.5	1.11
I19	29 Feb 2016	5	16.59	76.02	8.0	33.55	8.0	24.5	1.32
I19	29 Feb 2016	6	16.54	71.47	7.9	33.55	8.0	24.5	1.63
I19	29 Feb 2016	7	16.45	63.28	7.9	33.55	8.0	24.5	2.05

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	29 Feb 2016	8	16.40	65.66	7.9	33.54	8.0	24.5	2.40
I19	29 Feb 2016	9	16.28	57.37	7.8	33.54	8.0	24.6	2.64
I19	29 Feb 2016	10	16.04	58.89	7.7	33.54	8.0	24.6	2.80
I24	04 Feb 2016	1	14.71	72.21	7.2	33.58	8.1	24.9	0.63
I24	04 Feb 2016	2	14.71	72.00	7.2	33.58	8.1	24.9	0.66
I24	04 Feb 2016	3	14.69	71.83	7.1	33.58	8.1	24.9	0.78
I24	04 Feb 2016	4	14.66	71.57	7.2	33.58	8.1	24.9	0.98
I24	04 Feb 2016	5	14.62	71.12	7.2	33.58	8.1	25.0	1.23
I24	04 Feb 2016	6	14.58	69.89	7.2	33.58	8.1	25.0	1.76
I24	04 Feb 2016	7	14.57	68.23	7.1	33.58	8.1	25.0	1.91
I24	04 Feb 2016	8	14.56	66.69	7.1	33.58	8.1	25.0	2.18
I24	04 Feb 2016	9	14.56	65.79	7.1	33.58	8.1	25.0	2.17
I24	04 Feb 2016	10	14.56	64.23	7.1	33.58	8.1	25.0	2.28
I24	10 Feb 2016	1	14.74	67.06	7.8	33.51	7.9	24.9	2.00
I24	10 Feb 2016	2	14.74	66.84	7.7	33.51	7.9	24.9	2.68
I24	10 Feb 2016	3	14.72	66.67	7.7	33.51	7.9	24.9	3.09
I24	10 Feb 2016	4	14.74	66.89	7.7	33.52	7.9	24.9	3.10
I24	10 Feb 2016	5	14.80	69.16	7.6	33.55	7.9	24.9	2.89
I24	10 Feb 2016	6	14.84	71.72	7.6	33.57	7.9	24.9	2.91
I24	10 Feb 2016	7	14.83	71.74	7.4	33.58	7.9	24.9	3.07
I24	10 Feb 2016	8	14.76	63.88	7.3	33.58	7.9	24.9	3.26
I24	10 Feb 2016	9	14.68	49.02	7.2	33.57	7.9	24.9	3.79
I24	10 Feb 2016	10	14.66	37.39	7.2	33.57	7.9	24.9	4.03
I24	10 Feb 2016	11	14.65	31.00	7.2	33.57	7.9	24.9	4.17
I24	20 Feb 2016	1	16.73	66.63	7.7	33.57	8.2	24.5	0.62
I24	20 Feb 2016	2	16.69	66.44	7.7	33.57	8.2	24.5	0.65
I24	20 Feb 2016	3	16.57	65.79	7.6	33.57	8.2	24.5	0.80
I24	20 Feb 2016	4	16.52	65.33	7.5	33.56	8.2	24.5	1.04
I24	20 Feb 2016	5	16.44	64.74	7.5	33.56	8.2	24.5	1.35
I24	20 Feb 2016	6	16.39	64.44	7.5	33.56	8.2	24.6	1.68
I24	20 Feb 2016	7	16.37	64.12	7.5	33.56	8.2	24.6	1.93
I24	20 Feb 2016	8	16.36	63.54	7.4	33.56	8.2	24.6	1.96
I24	20 Feb 2016	9	16.32	62.26	7.3	33.55	8.2	24.6	1.95
I24	20 Feb 2016	10	16.08	59.45	7.3	33.55	8.2	24.6	1.79
I24	20 Feb 2016	11	16.04	50.77	7.3	33.54	8.2	24.6	1.82
I24	23 Feb 2016	1	16.75	76.21	7.8	33.55	8.2	24.5	0.45
I24	23 Feb 2016	2	16.66	75.52	7.8	33.55	8.2	24.5	0.45
I24	23 Feb 2016	3	16.39	77.58	7.9	33.55	8.2	24.5	0.47
I24	23 Feb 2016	4	16.35	77.94	7.9	33.55	8.2	24.6	0.53
I24	23 Feb 2016	5	16.23	76.46	7.8	33.55	8.2	24.6	0.65
I24	23 Feb 2016	6	16.01	74.58	7.6	33.54	8.2	24.6	0.98
I24	23 Feb 2016	7	15.87	66.74	7.5	33.54	8.2	24.7	1.39
I24	23 Feb 2016	8	15.87	65.37	7.6	33.54	8.2	24.7	1.81
I24	23 Feb 2016	9	15.84	65.46	7.5	33.54	8.2	24.7	1.99
I24	23 Feb 2016	10	15.81	66.05	7.5	33.54	8.2	24.7	2.18
I24	23 Feb 2016	11	15.80	66.20	7.5	33.54	8.2	24.7	2.21
I24	29 Feb 2016	1	17.02	74.61	8.0	33.55	8.0	24.4	0.62
I24	29 Feb 2016	2	16.88	74.04	8.0	33.55	8.0	24.4	0.65
I24	29 Feb 2016	3	16.73	73.42	8.0	33.55	8.0	24.5	0.72
I24	29 Feb 2016	4	16.66	74.36	8.0	33.55	8.0	24.5	0.87

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	29 Feb 2016	5	16.59	73.33	7.9	33.54	8.0	24.5	1.38
I24	29 Feb 2016	6	16.56	69.14	7.8	33.54	8.0	24.5	1.93
I24	29 Feb 2016	7	16.42	62.95	7.7	33.54	8.0	24.5	2.48
I24	29 Feb 2016	8	16.22	62.23	7.6	33.54	8.0	24.6	2.93
I24	29 Feb 2016	9	16.10	63.99	7.5	33.53	8.0	24.6	3.02
I24	29 Feb 2016	10	15.93	63.87	7.4	33.53	8.0	24.6	2.87
I24	29 Feb 2016	11	15.87	61.54	7.3	33.53	8.0	24.6	2.73
I25	04 Feb 2016	1	14.88	75.47	7.4	33.59	8.1	24.9	0.68
I25	04 Feb 2016	2	14.86	75.45	7.4	33.59	8.1	24.9	0.78
I25	04 Feb 2016	3	14.80	74.60	7.4	33.59	8.1	24.9	0.96
I25	04 Feb 2016	4	14.74	73.70	7.4	33.59	8.1	24.9	1.24
I25	04 Feb 2016	5	14.67	72.35	7.4	33.59	8.1	25.0	1.80
I25	04 Feb 2016	6	14.63	70.10	7.5	33.59	8.2	25.0	2.24
I25	04 Feb 2016	7	14.62	69.37	7.4	33.59	8.2	25.0	2.58
I25	04 Feb 2016	8	14.62	69.37	7.4	33.59	8.1	25.0	2.67
I25	04 Feb 2016	9	14.62	69.54	7.4	33.59	8.1	25.0	2.46
I25	10 Feb 2016	1	14.78	69.00	7.6	33.53	7.9	24.9	2.12
I25	10 Feb 2016	2	14.78	69.09	7.6	33.53	7.9	24.9	2.38
I25	10 Feb 2016	3	14.78	69.08	7.6	33.55	7.9	24.9	3.03
I25	10 Feb 2016	4	14.79	69.61	7.5	33.56	7.9	24.9	3.03
I25	10 Feb 2016	5	14.75	67.32	7.3	33.57	7.9	24.9	3.46
I25	10 Feb 2016	6	14.68	59.89	7.2	33.57	7.9	24.9	3.30
I25	10 Feb 2016	7	14.66	55.59	7.2	33.56	7.9	24.9	3.27
I25	10 Feb 2016	8	14.65	53.80	7.2	33.56	7.9	24.9	3.26
I25	10 Feb 2016	9	14.64	52.77	7.2	33.56	7.9	24.9	3.28
I25	20 Feb 2016	1	16.70	71.81	7.8	33.57	8.2	24.5	0.53
I25	20 Feb 2016	2	16.60	71.49	7.8	33.57	8.2	24.5	0.55
I25	20 Feb 2016	3	16.48	70.88	7.8	33.56	8.2	24.5	0.63
I25	20 Feb 2016	4	16.33	68.20	7.7	33.55	8.2	24.6	0.82
I25	20 Feb 2016	5	16.10	67.54	7.5	33.55	8.2	24.6	1.13
I25	20 Feb 2016	6	16.05	63.30	7.4	33.54	8.2	24.6	1.55
I25	20 Feb 2016	7	16.01	56.04	7.2	33.54	8.2	24.6	1.88
I25	20 Feb 2016	8	16.01	54.88	7.2	33.54	8.2	24.6	1.98
I25	20 Feb 2016	9	16.01	51.54	7.2	33.54	8.2	24.6	1.91
I25	23 Feb 2016	1	16.71	80.54	7.8	33.55	8.2	24.5	0.36
I25	23 Feb 2016	2	16.47	80.10	7.9	33.56	8.2	24.5	0.39
I25	23 Feb 2016	3	16.34	79.70	7.9	33.55	8.2	24.6	0.44
I25	23 Feb 2016	4	16.10	79.19	7.8	33.55	8.2	24.6	0.62
I25	23 Feb 2016	5	15.84	75.87	7.7	33.54	8.2	24.7	0.93
I25	23 Feb 2016	6	15.70	73.25	7.7	33.53	8.2	24.7	1.25
I25	23 Feb 2016	7	15.67	72.76	7.7	33.52	8.2	24.7	1.51
I25	23 Feb 2016	8	15.66	72.91	7.7	33.52	8.2	24.7	1.73
I25	23 Feb 2016	9	15.66	73.28	7.6	33.52	8.2	24.7	1.82
I25	29 Feb 2016	1	16.83	76.02	8.0	33.55	8.0	24.4	0.58
I25	29 Feb 2016	2	16.82	75.76	8.0	33.55	8.0	24.4	0.59
I25	29 Feb 2016	3	16.76	75.99	8.0	33.55	8.0	24.5	0.65
I25	29 Feb 2016	4	16.66	72.40	8.0	33.55	8.0	24.5	0.93
I25	29 Feb 2016	5	16.60	68.92	8.0	33.55	8.0	24.5	1.29
I25	29 Feb 2016	6	16.56	69.11	8.0	33.55	8.0	24.5	1.56
I25	29 Feb 2016	7	16.41	64.56	7.7	33.54	8.0	24.5	2.24

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I25	29 Feb 2016	8	15.93	56.36	7.3	33.53	8.0	24.6	3.12
I25	29 Feb 2016	9	15.72	50.14	7.2	33.53	8.0	24.7	3.11
I26	04 Feb 2016	1	14.87	71.46	7.5	33.59	8.1	24.9	0.96
I26	04 Feb 2016	2	14.82	71.18	7.4	33.59	8.1	24.9	0.96
I26	04 Feb 2016	3	14.77	69.65	7.4	33.59	8.1	24.9	1.15
I26	04 Feb 2016	4	14.71	68.78	7.5	33.59	8.1	24.9	1.71
I26	04 Feb 2016	5	14.66	69.52	7.5	33.59	8.1	25.0	2.44
I26	04 Feb 2016	6	14.63	68.97	7.4	33.59	8.1	25.0	2.87
I26	04 Feb 2016	7	14.61	67.51	7.4	33.59	8.1	25.0	3.30
I26	04 Feb 2016	8	14.61	64.09	7.3	33.59	8.1	25.0	3.54
I26	04 Feb 2016	9	14.61	62.10	7.4	33.59	8.1	25.0	3.15
I26	10 Feb 2016	1	14.72	63.21	7.3	33.57	7.9	24.9	2.67
I26	10 Feb 2016	2	14.71	61.84	7.3	33.57	7.9	24.9	3.69
I26	10 Feb 2016	3	14.70	60.30	7.3	33.56	7.9	24.9	3.80
I26	10 Feb 2016	4	14.70	60.44	7.3	33.56	7.9	24.9	3.94
I26	10 Feb 2016	5	14.70	60.21	7.2	33.56	7.9	24.9	3.69
I26	10 Feb 2016	6	14.70	59.30	7.3	33.57	7.9	24.9	3.81
I26	10 Feb 2016	7	14.70	59.85	7.3	33.56	7.9	24.9	3.87
I26	10 Feb 2016	8	14.70	59.95	7.2	33.56	7.9	24.9	4.03
I26	10 Feb 2016	9	14.70	59.62	7.2	33.56	7.9	24.9	4.09
I26	20 Feb 2016	1	16.60	71.33	7.8	33.56	8.2	24.5	0.61
I26	20 Feb 2016	2	16.54	71.51	7.8	33.56	8.2	24.5	0.62
I26	20 Feb 2016	3	16.32	70.72	7.9	33.56	8.2	24.6	0.71
I26	20 Feb 2016	4	16.27	64.70	7.9	33.56	8.2	24.6	0.97
I26	20 Feb 2016	5	16.17	57.57	7.7	33.56	8.2	24.6	1.38
I26	20 Feb 2016	6	15.91	61.85	7.7	33.55	8.2	24.6	1.98
I26	20 Feb 2016	7	15.82	64.64	7.6	33.54	8.2	24.7	2.29
I26	20 Feb 2016	8	15.79	60.84	7.6	33.54	8.2	24.7	2.38
I26	20 Feb 2016	9	15.78	55.17	7.6	33.53	8.2	24.7	2.35
I26	23 Feb 2016	1	16.77	80.84	7.8	33.55	8.2	24.5	0.43
I26	23 Feb 2016	2	16.51	80.64	7.8	33.56	8.2	24.5	0.45
I26	23 Feb 2016	3	16.38	80.00	7.9	33.55	8.2	24.5	0.49
I26	23 Feb 2016	4	16.30	79.35	7.9	33.55	8.2	24.6	0.59
I26	23 Feb 2016	5	16.10	73.55	7.7	33.55	8.2	24.6	0.84
I26	23 Feb 2016	6	15.61	62.84	7.5	33.53	8.2	24.7	1.48
I26	23 Feb 2016	7	15.40	67.11	7.4	33.52	8.2	24.7	2.13
I26	23 Feb 2016	8	15.39	69.66	7.4	33.52	8.1	24.7	2.58
I26	23 Feb 2016	9	15.39	69.91	7.4	33.52	8.2	24.7	2.71
I26	29 Feb 2016	1	17.08	82.31	8.0	33.56	8.1	24.4	0.45
I26	29 Feb 2016	2	17.05	82.32	8.0	33.55	8.1	24.4	0.45
I26	29 Feb 2016	3	16.76	79.50	8.0	33.55	8.1	24.5	0.51
I26	29 Feb 2016	4	16.50	77.53	8.1	33.55	8.1	24.5	0.62
I26	29 Feb 2016	5	16.15	73.50	8.0	33.54	8.1	24.6	0.91
I26	29 Feb 2016	6	15.94	75.36	7.9	33.53	8.1	24.6	1.16
I26	29 Feb 2016	7	15.69	77.52	7.7	33.53	8.0	24.7	1.58
I26	29 Feb 2016	8	15.60	68.04	7.5	33.52	8.0	24.7	2.22
I26	29 Feb 2016	9	15.59	58.59	7.4	33.52	8.0	24.7	2.45
I32	04 Feb 2016	1	15.07	60.82	7.6	33.60	8.2	24.9	1.11
I32	04 Feb 2016	2	15.04	60.41	7.5	33.60	8.2	24.9	1.13

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I32	04 Feb 2016	3	14.84	58.76	7.5	33.60	8.2	24.9	1.72
I32	04 Feb 2016	4	14.78	55.96	7.5	33.60	8.2	24.9	2.61
I32	04 Feb 2016	5	14.75	55.43	7.5	33.60	8.2	24.9	3.32
I32	04 Feb 2016	6	14.73	54.51	7.5	33.60	8.2	24.9	3.41
I32	04 Feb 2016	7	14.74	52.43	7.6	33.60	8.2	25.0	3.68
I32	04 Feb 2016	8	14.72	45.97	7.7	33.61	8.2	25.0	3.25
I32	04 Feb 2016	9	14.66	41.96	7.8	33.61	8.2	25.0	3.06
I32	11 Feb 2016	1	15.50	71.00	7.9	33.59	8.2	24.8	1.01
I32	11 Feb 2016	2	15.48	69.86	7.9	33.59	8.2	24.8	1.48
I32	11 Feb 2016	3	15.33	68.07	7.9	33.59	8.2	24.8	2.03
I32	11 Feb 2016	4	15.23	66.01	8.0	33.59	8.2	24.8	2.33
I32	11 Feb 2016	5	15.21	65.27	7.9	33.59	8.2	24.8	2.55
I32	11 Feb 2016	6	15.20	64.93	7.9	33.59	8.2	24.8	2.84
I32	11 Feb 2016	7	15.10	63.58	8.0	33.59	8.2	24.9	2.91
I32	11 Feb 2016	8	15.10	63.26	7.9	33.59	8.2	24.9	2.94
I32	11 Feb 2016	9	15.10	61.43	7.8	33.59	8.2	24.9	2.97
I32	11 Feb 2016	10	15.10	59.33	7.8	33.59	8.2	24.9	2.97
I32	20 Feb 2016	1	16.50	64.75	7.8	33.57	8.2	24.5	0.70
I32	20 Feb 2016	2	16.39	63.96	7.8	33.56	8.2	24.6	0.82
I32	20 Feb 2016	3	16.31	61.33	7.8	33.56	8.2	24.6	1.01
I32	20 Feb 2016	4	16.26	60.55	7.8	33.56	8.2	24.6	1.32
I32	20 Feb 2016	5	16.19	59.86	7.8	33.56	8.2	24.6	1.75
I32	20 Feb 2016	6	16.09	54.75	7.8	33.56	8.2	24.6	2.29
I32	20 Feb 2016	7	16.07	48.77	7.8	33.56	8.2	24.6	2.68
I32	20 Feb 2016	8	15.97	45.18	7.7	33.55	8.2	24.6	3.00
I32	20 Feb 2016	9	15.95	37.83	7.6	33.55	8.2	24.6	3.09
I32	20 Feb 2016	10	15.93	29.92	7.6	33.55	8.2	24.6	3.14
I32	23 Feb 2016	1	16.53	55.10	7.8	33.55	8.2	24.5	0.77
I32	23 Feb 2016	2	16.50	54.81	7.8	33.55	8.2	24.5	0.84
I32	23 Feb 2016	3	16.47	53.84	7.8	33.56	8.2	24.5	1.11
I32	23 Feb 2016	4	16.50	54.42	7.8	33.55	8.2	24.5	1.38
I32	23 Feb 2016	5	16.49	56.34	7.8	33.55	8.2	24.5	1.58
I32	23 Feb 2016	6	16.45	55.94	7.8	33.56	8.2	24.5	1.68
I32	23 Feb 2016	7	16.44	56.23	7.7	33.55	8.2	24.5	1.75
I32	23 Feb 2016	8	16.21	55.17	7.6	33.55	8.2	24.6	1.92
I32	23 Feb 2016	9	15.70	50.18	7.4	33.55	8.2	24.7	2.54
I32	29 Feb 2016	1	17.05	60.42	8.1	33.55	8.0	24.4	1.12
I32	29 Feb 2016	2	17.08	60.92	8.1	33.55	8.0	24.4	1.09
I32	29 Feb 2016	3	17.05	60.79	8.0	33.55	8.0	24.4	1.20
I32	29 Feb 2016	4	16.94	58.39	8.0	33.55	8.0	24.4	1.49
I32	29 Feb 2016	5	16.92	56.10	8.0	33.55	8.0	24.4	1.68
I32	29 Feb 2016	6	16.91	55.92	7.9	33.55	8.0	24.4	1.81
I32	29 Feb 2016	7	16.68	53.76	7.9	33.55	8.0	24.5	2.21
I32	29 Feb 2016	8	16.46	46.91	7.8	33.54	8.0	24.5	2.63
I32	29 Feb 2016	9	16.27	42.48	7.7	33.54	8.0	24.6	2.91
I39	04 Feb 2016	1	15.21	81.33	7.5	33.59	8.2	24.8	0.84
I39	04 Feb 2016	2	15.21	81.30	7.5	33.59	8.2	24.8	0.83
I39	04 Feb 2016	3	15.20	81.35	7.5	33.59	8.2	24.8	0.85
I39	04 Feb 2016	4	15.20	81.33	7.4	33.59	8.2	24.8	0.92
I39	04 Feb 2016	5	15.17	80.96	7.5	33.59	8.2	24.8	1.09

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	04 Feb 2016	6	15.16	80.91	7.5	33.59	8.2	24.8	1.28
I39	04 Feb 2016	7	15.16	80.82	7.5	33.59	8.2	24.8	1.45
I39	04 Feb 2016	8	15.15	80.87	7.5	33.59	8.2	24.8	1.61
I39	04 Feb 2016	9	15.14	80.84	7.5	33.59	8.2	24.9	1.83
I39	04 Feb 2016	10	15.13	80.79	7.5	33.59	8.2	24.9	2.00
I39	04 Feb 2016	11	15.12	80.68	7.4	33.59	8.2	24.9	2.16
I39	04 Feb 2016	12	15.11	80.63	7.4	33.58	8.2	24.9	2.29
I39	04 Feb 2016	13	15.09	80.53	7.4	33.58	8.2	24.9	2.43
I39	04 Feb 2016	14	15.06	80.42	7.4	33.58	8.2	24.9	2.45
I39	04 Feb 2016	15	15.03	80.47	7.3	33.58	8.2	24.9	2.39
I39	04 Feb 2016	16	15.00	80.42	7.3	33.58	8.2	24.9	2.32
I39	04 Feb 2016	17	14.94	79.25	7.1	33.58	8.2	24.9	2.13
I39	04 Feb 2016	18	14.91	75.19	7.1	33.57	8.2	24.9	1.85
I39	10 Feb 2016	1	14.87	70.34	7.9	33.55	8.0	24.9	3.53
I39	10 Feb 2016	2	14.86	69.40	7.7	33.56	8.0	24.9	3.94
I39	10 Feb 2016	3	14.81	65.66	7.7	33.57	8.0	24.9	4.73
I39	10 Feb 2016	4	14.80	65.69	7.6	33.57	7.9	24.9	4.92
I39	10 Feb 2016	5	14.80	64.52	7.5	33.57	7.9	24.9	4.87
I39	10 Feb 2016	6	14.81	63.76	7.5	33.57	7.9	24.9	4.89
I39	10 Feb 2016	7	14.81	64.05	7.5	33.57	7.9	24.9	4.85
I39	10 Feb 2016	8	14.81	64.32	7.5	33.57	7.9	24.9	4.67
I39	10 Feb 2016	9	14.81	63.39	7.6	33.57	7.9	24.9	4.66
I39	10 Feb 2016	10	14.81	63.26	7.5	33.57	7.9	24.9	4.49
I39	10 Feb 2016	11	14.81	63.36	7.5	33.58	7.9	24.9	4.57
I39	10 Feb 2016	12	14.81	62.63	7.5	33.58	7.9	24.9	4.73
I39	10 Feb 2016	13	14.81	62.72	7.5	33.58	7.9	24.9	4.51
I39	10 Feb 2016	14	14.81	62.03	7.5	33.58	7.9	24.9	4.79
I39	10 Feb 2016	15	14.80	61.46	7.5	33.58	7.9	24.9	4.67
I39	10 Feb 2016	16	14.79	60.82	7.5	33.58	7.9	24.9	4.99
I39	10 Feb 2016	17	14.77	59.56	7.5	33.58	7.9	24.9	5.01
I39	10 Feb 2016	18	14.76	58.76	7.5	33.58	7.9	24.9	5.18
I39	20 Feb 2016	1	16.58	79.20	7.9	33.56	8.2	24.5	0.44
I39	20 Feb 2016	2	16.52	76.78	7.9	33.56	8.2	24.5	0.45
I39	20 Feb 2016	3	16.49	80.05	7.9	33.56	8.2	24.5	0.49
I39	20 Feb 2016	4	16.46	80.04	7.9	33.56	8.2	24.5	0.59
I39	20 Feb 2016	5	16.44	80.90	7.9	33.56	8.2	24.5	0.64
I39	20 Feb 2016	6	16.40	81.61	8.0	33.56	8.2	24.5	0.72
I39	20 Feb 2016	7	16.30	82.11	7.9	33.55	8.2	24.6	0.81
I39	20 Feb 2016	8	16.10	83.56	8.0	33.54	8.2	24.6	0.89
I39	20 Feb 2016	9	16.05	83.46	7.8	33.54	8.2	24.6	0.91
I39	20 Feb 2016	10	15.74	81.62	7.7	33.53	8.2	24.7	1.18
I39	20 Feb 2016	11	15.63	73.30	7.6	33.53	8.2	24.7	1.69
I39	20 Feb 2016	12	15.56	69.22	7.4	33.54	8.2	24.7	2.29
I39	20 Feb 2016	13	15.53	68.66	7.4	33.53	8.2	24.7	2.46
I39	20 Feb 2016	14	15.52	68.47	7.4	33.54	8.2	24.7	2.63
I39	20 Feb 2016	15	15.52	67.75	7.4	33.54	8.2	24.7	2.71
I39	20 Feb 2016	16	15.50	66.66	7.3	33.54	8.2	24.7	2.70
I39	20 Feb 2016	17	15.48	62.54	7.2	33.54	8.2	24.7	2.64
I39	20 Feb 2016	18	15.45	58.15	7.1	33.54	8.2	24.7	2.87
I39	23 Feb 2016	1	16.43	80.13	7.8	33.55	8.2	24.5	0.59
I39	23 Feb 2016	2	16.35	80.13	7.8	33.55	8.2	24.6	0.58
I39	23 Feb 2016	3	16.25	79.83	7.9	33.55	8.2	24.6	0.63

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	23 Feb 2016	4	16.21	79.71	7.9	33.55	8.2	24.6	0.71
I39	23 Feb 2016	5	16.17	79.69	7.9	33.55	8.2	24.6	0.82
I39	23 Feb 2016	6	16.16	79.63	7.9	33.55	8.2	24.6	0.94
I39	23 Feb 2016	7	16.14	79.60	7.9	33.55	8.2	24.6	1.05
I39	23 Feb 2016	8	16.13	79.52	8.0	33.55	8.2	24.6	1.19
I39	23 Feb 2016	9	16.12	79.52	8.0	33.55	8.2	24.6	1.32
I39	23 Feb 2016	10	16.10	79.44	7.9	33.55	8.2	24.6	1.45
I39	23 Feb 2016	11	16.04	79.49	7.9	33.54	8.2	24.6	1.64
I39	23 Feb 2016	12	15.93	79.56	7.8	33.54	8.2	24.6	1.88
I39	23 Feb 2016	13	15.51	79.74	7.6	33.53	8.2	24.7	2.29
I39	23 Feb 2016	14	15.22	79.76	7.3	33.51	8.1	24.8	2.55
I39	23 Feb 2016	15	15.05	79.14	7.1	33.51	8.1	24.8	2.33
I39	23 Feb 2016	16	15.04	78.49	7.1	33.50	8.1	24.8	2.17
I39	23 Feb 2016	17	15.01	78.14	7.0	33.50	8.1	24.8	2.06
I39	23 Feb 2016	18	15.01	78.06	7.0	33.50	8.1	24.8	1.99
I39	29 Feb 2016	1	16.77	81.80	8.0	33.56	8.1	24.5	0.62
I39	29 Feb 2016	2	16.72	82.32	8.0	33.56	8.1	24.5	0.68
I39	29 Feb 2016	3	16.70	82.20	8.0	33.56	8.1	24.5	0.72
I39	29 Feb 2016	4	16.67	81.03	8.0	33.55	8.1	24.5	0.77
I39	29 Feb 2016	5	16.63	81.40	8.0	33.55	8.1	24.5	0.86
I39	29 Feb 2016	6	16.57	81.62	8.0	33.55	8.1	24.5	0.95
I39	29 Feb 2016	7	16.54	81.57	7.9	33.55	8.1	24.5	0.98
I39	29 Feb 2016	8	16.28	81.37	8.0	33.55	8.1	24.6	1.00
I39	29 Feb 2016	9	16.15	81.27	8.0	33.54	8.1	24.6	1.04
I39	29 Feb 2016	10	15.97	81.61	8.0	33.54	8.1	24.6	1.28
I39	29 Feb 2016	11	15.85	81.11	7.9	33.54	8.1	24.7	1.65
I39	29 Feb 2016	12	15.78	80.50	7.8	33.53	8.0	24.7	2.00
I39	29 Feb 2016	13	15.66	80.44	7.8	33.53	8.0	24.7	2.25
I39	29 Feb 2016	14	15.63	79.14	7.6	33.53	8.0	24.7	2.50
I39	29 Feb 2016	15	15.60	77.99	7.4	33.52	8.0	24.7	2.60
I39	29 Feb 2016	16	15.37	75.01	7.2	33.52	8.0	24.8	2.62
I39	29 Feb 2016	17	15.20	65.91	6.9	33.52	8.0	24.8	2.54
I39	29 Feb 2016	18	15.18	60.16	6.8	33.51	8.0	24.8	2.47
I40	04 Feb 2016	1	14.80	51.53	7.7	33.61	8.2	24.9	1.37
I40	04 Feb 2016	2	14.77	50.73	7.7	33.61	8.2	25.0	1.69
I40	04 Feb 2016	3	14.73	49.85	7.7	33.62	8.2	25.0	2.51
I40	04 Feb 2016	4	14.70	49.79	7.8	33.62	8.2	25.0	2.92
I40	04 Feb 2016	5	14.69	49.41	7.8	33.61	8.2	25.0	3.11
I40	04 Feb 2016	6	14.66	49.64	7.8	33.62	8.2	25.0	3.30
I40	04 Feb 2016	7	14.61	50.61	7.8	33.61	8.2	25.0	3.42
I40	04 Feb 2016	8	14.54	49.69	7.8	33.62	8.2	25.0	3.25
I40	04 Feb 2016	9	14.51	44.19	7.8	33.62	8.2	25.0	3.26
I40	10 Feb 2016	1	14.75	66.34	7.8	33.52	8.0	24.9	2.15
I40	10 Feb 2016	2	14.75	66.30	7.7	33.52	7.9	24.9	2.64
I40	10 Feb 2016	3	14.75	66.53	7.6	33.55	7.9	24.9	2.68
I40	10 Feb 2016	4	14.77	67.27	7.5	33.57	7.9	24.9	2.87
I40	10 Feb 2016	5	14.76	67.12	7.5	33.58	7.9	24.9	2.99
I40	10 Feb 2016	6	14.76	65.94	7.5	33.58	7.9	24.9	2.97
I40	10 Feb 2016	7	14.76	60.37	7.5	33.58	7.9	24.9	2.81
I40	10 Feb 2016	8	14.77	57.97	7.5	33.58	7.9	24.9	2.91
I40	10 Feb 2016	9	14.77	55.94	7.5	33.58	7.9	24.9	2.99
I40	10 Feb 2016	10	14.77	54.81	7.4	33.58	7.9	24.9	3.85

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	20 Feb 2016	1	16.64	46.55	7.7	33.57	8.2	24.5	0.98
I40	20 Feb 2016	2	16.61	45.84	7.7	33.57	8.2	24.5	1.12
I40	20 Feb 2016	3	16.56	45.02	7.6	33.57	8.2	24.5	1.71
I40	20 Feb 2016	4	16.53	45.07	7.6	33.57	8.2	24.5	2.29
I40	20 Feb 2016	5	16.49	47.01	7.6	33.57	8.2	24.5	2.44
I40	20 Feb 2016	6	16.44	48.41	7.6	33.57	8.2	24.5	2.42
I40	20 Feb 2016	7	16.43	48.39	7.7	33.57	8.2	24.6	2.41
I40	20 Feb 2016	8	16.41	48.33	7.6	33.57	8.2	24.6	2.39
I40	20 Feb 2016	9	16.18	45.72	7.3	33.56	8.2	24.6	2.39
I40	20 Feb 2016	10	15.76	36.28	7.1	33.54	8.2	24.7	2.86
I40	23 Feb 2016	1	16.74	69.48	7.6	33.56	8.2	24.5	0.45
I40	23 Feb 2016	2	16.63	69.20	7.6	33.56	8.2	24.5	0.47
I40	23 Feb 2016	3	16.38	66.43	7.6	33.56	8.2	24.6	0.61
I40	23 Feb 2016	4	16.32	64.17	7.6	33.56	8.2	24.6	0.82
I40	23 Feb 2016	5	16.24	60.81	7.6	33.55	8.2	24.6	1.17
I40	23 Feb 2016	6	16.20	58.51	7.7	33.55	8.2	24.6	1.57
I40	23 Feb 2016	7	16.16	57.52	7.7	33.55	8.2	24.6	1.93
I40	23 Feb 2016	8	16.00	53.02	7.8	33.55	8.2	24.6	2.27
I40	23 Feb 2016	9	15.87	46.18	7.8	33.55	8.2	24.7	2.62
I40	23 Feb 2016	10	15.85	39.65	7.8	33.55	8.2	24.7	2.87
I40	29 Feb 2016	1	16.95	66.15	8.0	33.55	8.0	24.4	1.01
I40	29 Feb 2016	2	16.87	63.82	8.0	33.55	8.0	24.4	1.21
I40	29 Feb 2016	3	16.83	61.61	8.0	33.55	8.0	24.4	1.58
I40	29 Feb 2016	4	16.81	60.17	8.0	33.55	8.0	24.4	1.87
I40	29 Feb 2016	5	16.79	58.19	7.9	33.55	8.0	24.4	2.10
I40	29 Feb 2016	6	16.71	55.81	7.9	33.55	8.0	24.5	2.29
I40	29 Feb 2016	7	16.65	51.49	7.9	33.55	8.0	24.5	2.58
I40	29 Feb 2016	8	16.67	49.97	7.9	33.54	8.0	24.5	2.70
I40	29 Feb 2016	9	16.48	50.25	7.8	33.55	8.0	24.5	2.86
I40	29 Feb 2016	10	16.43	46.94	7.9	33.54	8.0	24.5	2.97

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
10 Feb 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
11 Feb 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

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
10 Feb 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
11 Feb 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

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
10 Feb 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
11 Feb 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

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
10 Feb 2016	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
11 Feb 2016	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

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	09 Feb 2016	1013	2	<2	<2	<2	1.00	14.8	80.10	7.3	33.56	8.1	<0.2	3.2
I3	09 Feb 2016	1013	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I3	09 Feb 2016	1013	18	92	12e	<20	0.13	14.5	74.58	6.8	33.55	8.1	ns	4.4
I3	09 Feb 2016	1013	27	44	2e	12e	0.05	14.5	73.23	6.8	33.55	8.1	ns	4.1
I5	09 Feb 2016	1040	2	700	70	110	0.10	14.6	52.54	7.3	33.57	8.1	<0.2	5.8
I5	09 Feb 2016	1040	6	1100	300e	100e	0.27	14.5	51.43	7.3	33.58	8.1	ns	6.1
I5	09 Feb 2016	1040	11	2000e	240e	300e	0.12	14.5	42.90	7.1	33.57	8.1	ns	8.9
I7	09 Feb 2016	904	2	<2	<2	<2	1.00	15.6	84.39	7.8	33.59	8.1	<0.2	2.9
I7	09 Feb 2016	904	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.7*
I7	09 Feb 2016	904	18	<2	<2	<2	1.00	15.6	84.55	7.8	33.59	8.1	ns	4.2
I7	09 Feb 2016	904	52	<2	<2	<2	1.00	15.1	84.73	7.0	33.58	8.1	ns	3.6
I8	09 Feb 2016	1207	2	<2	<2	<2	1.00	15.8	84.63	7.8	33.59	8.1	<0.2	5.1
I8	09 Feb 2016	1207	18	<2	<2	<2	1.00	15.5	84.83	7.6	33.59	8.1	ns	2.9
I8	09 Feb 2016	1207	37	<2	<2	<2	1.00	14.8	83.60	6.7	33.55	8.1	ns	3.7
I9	09 Feb 2016	1149	2	<2	<2	<2	1.00	15.7	83.51	7.8	33.60	8.1	<0.2	2.9
I9	09 Feb 2016	1149	18	38e	<2	<2	0.05	15.2	85.13	7.1	33.58	8.1	ns	3.1
I9	09 Feb 2016	1149	27	<2	<2	<20	1.00	14.5	84.08	6.2	33.54	8.0	ns	2.7
I10	09 Feb 2016	1134	2	88	6e	2e	0.07	15.4	80.68	7.9	33.58	8.1	<0.2	6.4
I10	09 Feb 2016	1134	12	800e	64	38e	0.08	15.0	79.27	6.9	33.57	8.1	ns	4.2
I10	09 Feb 2016	1134	18	42	2e	<2	0.05	14.6	75.48	6.3	33.54	8.0	ns	4.9
I11	09 Feb 2016	1120	2	10e	2e	<2	0.20	15.3	78.16	7.9	33.57	8.1	<0.2	5.0
I11	09 Feb 2016	1120	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	4.1*
I11	09 Feb 2016	1120	6	20e	12e	2e	0.60	15.1	78.55	7.6	33.57	8.1	ns	3.4
I11	09 Feb 2016	1120	11	100e	6e	4e	0.06	14.9	77.87	7.0	33.56	8.1	ns	4.1
I12	10 Feb 2016	1018	2	<2	<2	<2	1.00	15.1	84.03	7.9	33.58	8.0	<0.2	5.6
I12	10 Feb 2016	1018	18	2e	<2	<2	1.00	14.8	81.25	7.4	33.58	8.0	ns	4.6
I12	10 Feb 2016	1018	27	8e	<2	<2	0.25	14.8	68.03	7.4	33.59	7.9	ns	8.8
I13	09 Feb 2016	1224	2	<2	<2	<2	1.00	15.9	84.73	7.8	33.59	8.1	<0.2	3.1
I13	09 Feb 2016	1224	18	<2	<2	<20	1.00	15.6	84.82	7.8	33.58	8.1	ns	3.7
I13	09 Feb 2016	1224	37	<2	<2	<2	1.00	14.9	84.91	6.7	33.55	8.1	ns	3.5
I14	10 Feb 2016	1038	2	16e	<2	<2	0.12	15.1	81.80	7.6	33.55	8.0	<0.2	4.1
I14	10 Feb 2016	1038	18	2e	<2	<2	1.00	14.8	79.38	7.4	33.59	8.0	ns	4.8
I14	10 Feb 2016	1038	27	26e	<2	10e	0.08	14.8	69.09	7.3	33.59	7.9	ns	8.0
I16	10 Feb 2016	1010	2	42	6e	<2	0.14	15.1	81.77	7.7	33.54	8.0	<0.2	4.6
I16	10 Feb 2016	1010	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	5.1*
I16	10 Feb 2016	1010	18	2e	<2	<2	1.00	14.9	83.39	7.4	33.58	8.0	ns	4.8

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	10 Feb 2016	1010	27	20e	<2	2e	0.10	14.8	66.09	7.3	33.59	7.9	ns	9.6
I18	10 Feb 2016	949	2	<2	<2	<2	1.00	15.0	82.20	7.8	33.59	8.0	<0.2	7.7
I18	10 Feb 2016	949	12	4e	<2	2e	0.50	14.9	80.71	7.5	33.59	8.0	ns	3.6
I18	10 Feb 2016	949	18	80e	4e	14e	0.05	14.9	70.90	7.5	33.59	7.9	ns	6.8
I20	09 Feb 2016	842	2	<2	<2	<2	1.00	15.7	84.16	7.8	33.60	8.1	<0.2	5.7
I20	09 Feb 2016	842	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	7.6*
I20	09 Feb 2016	842	18	<2	<2	<2	1.00	15.6	85.49	7.7	33.60	8.1	ns	6.1
I20	09 Feb 2016	842	55	<2	<2	<2	1.00	14.7	84.50	6.6	33.56	8.1	ns	3.6
I21	09 Feb 2016	1242	2	<2	<2	<2	1.00	16.0	83.70	7.8	33.60	8.2	<0.2	7.1
I21	09 Feb 2016	1242	18	<2	<2	<2	1.00	15.6	83.77	7.8	33.60	8.1	ns	3.9
I21	09 Feb 2016	1242	37	<2	<2	<2	1.00	14.9	85.26	6.8	33.56	8.1	ns	6.5
I22	10 Feb 2016	1051	2	6e	<2	<2	0.33	15.0	79.27	7.9	33.54	8.0	<0.2	3.8
I22	10 Feb 2016	1051	18	2e	<2	<2	1.00	14.8	79.03	7.3	33.59	8.0	ns	3.6
I22	10 Feb 2016	1051	27	60e	2e	20e	0.03	14.8	68.32	7.3	33.59	7.9	ns	6.1
I23	10 Feb 2016	1106	2	<2	<2	<2	1.00	15.1	80.02	7.7	33.60	8.0	<0.2	<0.2
I23	10 Feb 2016	1106	12	16e	<2	2e	0.12	14.9	79.96	7.6	33.59	8.0	ns	<0.2
I23	10 Feb 2016	1106	18	180e	24e	40	0.13	14.8	64.71	7.3	33.58	7.9	ns	5.4
I30	11 Feb 2016	1014	2	2e	<2	<2	1.00	15.2	83.68	7.8	33.56	8.2	<0.2	2.7
I30	11 Feb 2016	1014	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.7*
I30	11 Feb 2016	1014	18	4e	<2	<2	0.50	15.1	79.24	7.6	33.57	8.2	ns	2.9
I30	11 Feb 2016	1014	27	4e	<2	<2	0.50	15.1	75.87	7.6	33.58	8.2	ns	5.3
I33	11 Feb 2016	857	2	<2	<2	<2	1.00	15.2	85.82	7.9	33.57	8.2	<0.2	<0.2
I33	11 Feb 2016	857	18	<2	<2	<2	1.00	15.0	82.17	7.5	33.57	8.2	ns	2.6
I33	11 Feb 2016	857	27	18e	<2	<2	0.11	14.9	75.89	7.4	33.58	8.1	ns	3.3
I36	11 Feb 2016	1057	2	<2	<2	<2	1.00	15.6	74.76	8.3	33.60	8.2	<0.2	2.9
I36	11 Feb 2016	1057	6	140e	16e	<2	0.11	15.2	70.81	8.3	33.58	8.2	ns	6.8
I36	11 Feb 2016	1057	11	46	6e	<2	0.13	14.9	57.92	7.5	33.56	8.2	ns	3.4
I37	11 Feb 2016	828	2	2e	<2	<2	1.00	15.3	79.83	8.2	33.59	8.2	<0.2	4.0
I37	11 Feb 2016	828	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.7*
I37	11 Feb 2016	828	6	<2	<2	<2	1.00	15.3	80.50	7.8	33.58	8.2	ns	<0.2
I37	11 Feb 2016	828	11	<2	<2	<2	1.00	14.8	59.81	7.4	33.58	8.1	ns	4.1
I38	11 Feb 2016	1129	2	<2	<2	<2	1.00	15.4	84.10	8.2	33.58	8.2	<0.2	<0.2
I38	11 Feb 2016	1129	6	<2	<2	<2	1.00	15.2	83.08	8.2	33.58	8.2	ns	2.9
I38	11 Feb 2016	1129	11	<2	<2	<2	1.00	14.8	75.73	8.1	33.58	8.2	ns	2.8

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	09 Feb 2016	Depth (m)	62
I1	09 Feb 2016	Arrive Time	928
I1	09 Feb 2016	Depart Time	932
I1	09 Feb 2016	Air Temp (C)	18
I1	09 Feb 2016	Weather	Clear
I1	09 Feb 2016	Visibility (mi)	14
I1	09 Feb 2016	Wind Speed (kts)	10
I1	09 Feb 2016	Wind Dir	SE
I1	09 Feb 2016	Water Color	Green
I1	09 Feb 2016	Wave Ht Low (ft)	1
I1	09 Feb 2016	Wave Period (sec)	11
I1	09 Feb 2016	Sea State	Calm
I1	09 Feb 2016	High Tide (ft)	6.09
I1	09 Feb 2016	High Tide Time	905
I1	09 Feb 2016	Low Tide (ft)	-1.16
I1	09 Feb 2016	Low Tide Time	1555
I1	09 Feb 2016	Comments	
I2	09 Feb 2016	Depth (m)	34
I2	09 Feb 2016	Arrive Time	958
I2	09 Feb 2016	Depart Time	1001
I2	09 Feb 2016	Air Temp (C)	20
I2	09 Feb 2016	Weather	Clear
I2	09 Feb 2016	Visibility (mi)	14
I2	09 Feb 2016	Wind Speed (kts)	10
I2	09 Feb 2016	Wind Dir	NW
I2	09 Feb 2016	Water Color	Green
I2	09 Feb 2016	Wave Ht Low (ft)	1
I2	09 Feb 2016	Wave Period (sec)	11
I2	09 Feb 2016	Sea State	Calm
I2	09 Feb 2016	High Tide (ft)	6.09
I2	09 Feb 2016	High Tide Time	905
I2	09 Feb 2016	Low Tide (ft)	-1.16
I2	09 Feb 2016	Low Tide Time	1555
I2	09 Feb 2016	Comments	
I3	09 Feb 2016	Depth (m)	28
I3	09 Feb 2016	Arrive Time	1013
I3	09 Feb 2016	Depart Time	1017
I3	09 Feb 2016	Air Temp (C)	21
I3	09 Feb 2016	Weather	Clear
I3	09 Feb 2016	Visibility (mi)	14
I3	09 Feb 2016	Wind Speed (kts)	10
I3	09 Feb 2016	Wind Dir	N
I3	09 Feb 2016	Water Color	Green
I3	09 Feb 2016	Wave Ht Low (ft)	1
I3	09 Feb 2016	Wave Period (sec)	11
I3	09 Feb 2016	Sea State	Calm
I3	09 Feb 2016	High Tide (ft)	6.09
I3	09 Feb 2016	High Tide Time	905
I3	09 Feb 2016	Low Tide (ft)	-1.16

Station	Date	Parameter	Value
I3	09 Feb 2016	Low Tide Time	1555
I3	09 Feb 2016	Comments	
I4	09 Feb 2016	Depth (m)	21
I4	09 Feb 2016	Arrive Time	1031
I4	09 Feb 2016	Depart Time	1033
I4	09 Feb 2016	Air Temp (C)	20
I4	09 Feb 2016	Weather	Clear
I4	09 Feb 2016	Visibility (mi)	14
I4	09 Feb 2016	Wind Speed (kts)	9
I4	09 Feb 2016	Wind Dir	SW
I4	09 Feb 2016	Water Color	Green
I4	09 Feb 2016	Wave Ht Low (ft)	2
I4	09 Feb 2016	Wave Period (sec)	9
I4	09 Feb 2016	Sea State	Calm
I4	09 Feb 2016	High Tide (ft)	6.09
I4	09 Feb 2016	High Tide Time	905
I4	09 Feb 2016	Low Tide (ft)	-1.16
I4	09 Feb 2016	Low Tide Time	1555
I4	09 Feb 2016	Comments	
I5	09 Feb 2016	Depth (m)	14
I5	09 Feb 2016	Arrive Time	1040
I5	09 Feb 2016	Depart Time	1043
I5	09 Feb 2016	Air Temp (C)	20
I5	09 Feb 2016	Weather	Clear
I5	09 Feb 2016	Visibility (mi)	14
I5	09 Feb 2016	Wind Speed (kts)	13
I5	09 Feb 2016	Wind Dir	S
I5	09 Feb 2016	Water Color	Greenish-Brown
I5	09 Feb 2016	Wave Ht Low (ft)	2
I5	09 Feb 2016	Wave Period (sec)	9
I5	09 Feb 2016	Sea State	Calm
I5	09 Feb 2016	High Tide (ft)	6.09
I5	09 Feb 2016	High Tide Time	905
I5	09 Feb 2016	Low Tide (ft)	-1.16
I5	09 Feb 2016	Low Tide Time	1555
I5	09 Feb 2016	Comments	
I6	09 Feb 2016	Depth (m)	27
I6	09 Feb 2016	Arrive Time	1059
I6	09 Feb 2016	Depart Time	1102
I6	09 Feb 2016	Air Temp (C)	18
I6	09 Feb 2016	Weather	Clear
I6	09 Feb 2016	Visibility (mi)	14
I6	09 Feb 2016	Wind Speed (kts)	6
I6	09 Feb 2016	Wind Dir	SE
I6	09 Feb 2016	Water Color	Green
I6	09 Feb 2016	Wave Ht Low (ft)	2
I6	09 Feb 2016	Wave Period (sec)	9
I6	09 Feb 2016	Sea State	Calm
I6	09 Feb 2016	High Tide (ft)	6.09
I6	09 Feb 2016	High Tide Time	905
I6	09 Feb 2016	Low Tide (ft)	-1.16
I6	09 Feb 2016	Low Tide Time	1555

Station	Date	Parameter	Value
I6	09 Feb 2016	Comments	
I7	09 Feb 2016	Depth (m)	53
I7	09 Feb 2016	Arrive Time	904
I7	09 Feb 2016	Depart Time	910
I7	09 Feb 2016	Air Temp (C)	17
I7	09 Feb 2016	Weather	Clear
I7	09 Feb 2016	Visibility (mi)	14
I7	09 Feb 2016	Wind Speed (kts)	6
I7	09 Feb 2016	Wind Dir	E
I7	09 Feb 2016	Water Color	Green
I7	09 Feb 2016	Wave Ht Low (ft)	1
I7	09 Feb 2016	Wave Period (sec)	11
I7	09 Feb 2016	Sea State	Calm
I7	09 Feb 2016	High Tide (ft)	6.09
I7	09 Feb 2016	High Tide Time	905
I7	09 Feb 2016	Low Tide (ft)	-1.16
I7	09 Feb 2016	Low Tide Time	1555
I7	09 Feb 2016	Comments	
I8	09 Feb 2016	Depth (m)	37
I8	09 Feb 2016	Arrive Time	1207
I8	09 Feb 2016	Depart Time	1211
I8	09 Feb 2016	Air Temp (C)	18
I8	09 Feb 2016	Weather	Clear
I8	09 Feb 2016	Visibility (mi)	14
I8	09 Feb 2016	Wind Speed (kts)	9
I8	09 Feb 2016	Wind Dir	E
I8	09 Feb 2016	Water Color	Green
I8	09 Feb 2016	Wave Ht Low (ft)	2
I8	09 Feb 2016	Wave Period (sec)	9
I8	09 Feb 2016	Sea State	Calm
I8	09 Feb 2016	High Tide (ft)	6.09
I8	09 Feb 2016	High Tide Time	905
I8	09 Feb 2016	Low Tide (ft)	-1.16
I8	09 Feb 2016	Low Tide Time	1555
I8	09 Feb 2016	Comments	
I9	09 Feb 2016	Depth (m)	30
I9	09 Feb 2016	Arrive Time	1149
I9	09 Feb 2016	Depart Time	1153
I9	09 Feb 2016	Air Temp (C)	19
I9	09 Feb 2016	Weather	Clear
I9	09 Feb 2016	Visibility (mi)	14
I9	09 Feb 2016	Wind Speed (kts)	8
I9	09 Feb 2016	Wind Dir	SE
I9	09 Feb 2016	Water Color	Green
I9	09 Feb 2016	Wave Ht Low (ft)	2
I9	09 Feb 2016	Wave Period (sec)	9
I9	09 Feb 2016	Sea State	Calm
I9	09 Feb 2016	High Tide (ft)	6.09
I9	09 Feb 2016	High Tide Time	905
I9	09 Feb 2016	Low Tide (ft)	-1.16
I9	09 Feb 2016	Low Tide Time	1555
I9	09 Feb 2016	Comments	

Station	Date	Parameter	Value
I10	09 Feb 2016	Depth (m)	20
I10	09 Feb 2016	Arrive Time	1134
I10	09 Feb 2016	Depart Time	1137
I10	09 Feb 2016	Air Temp (C)	20
I10	09 Feb 2016	Weather	Clear
I10	09 Feb 2016	Visibility (mi)	14
I10	09 Feb 2016	Wind Speed (kts)	5
I10	09 Feb 2016	Wind Dir	S
I10	09 Feb 2016	Water Color	Green
I10	09 Feb 2016	Wave Ht Low (ft)	2
I10	09 Feb 2016	Wave Period (sec)	9
I10	09 Feb 2016	Sea State	Calm
I10	09 Feb 2016	High Tide (ft)	6.09
I10	09 Feb 2016	High Tide Time	905
I10	09 Feb 2016	Low Tide (ft)	-1.16
I10	09 Feb 2016	Low Tide Time	1555
I10	09 Feb 2016	Comments	
I11	09 Feb 2016	Depth (m)	15
I11	09 Feb 2016	Arrive Time	1120
I11	09 Feb 2016	Depart Time	1124
I11	09 Feb 2016	Air Temp (C)	20
I11	09 Feb 2016	Weather	Clear
I11	09 Feb 2016	Visibility (mi)	14
I11	09 Feb 2016	Wind Speed (kts)	4
I11	09 Feb 2016	Wind Dir	SE
I11	09 Feb 2016	Water Color	Green
I11	09 Feb 2016	Wave Ht Low (ft)	2
I11	09 Feb 2016	Wave Period (sec)	9
I11	09 Feb 2016	Sea State	Calm
I11	09 Feb 2016	High Tide (ft)	6.09
I11	09 Feb 2016	High Tide Time	905
I11	09 Feb 2016	Low Tide (ft)	-1.16
I11	09 Feb 2016	Low Tide Time	1555
I11	09 Feb 2016	Comments	
I12	10 Feb 2016	Depth (m)	30
I12	10 Feb 2016	Arrive Time	1018
I12	10 Feb 2016	Depart Time	1022
I12	10 Feb 2016	Air Temp (C)	18
I12	10 Feb 2016	Weather	Clear
I12	10 Feb 2016	Visibility (mi)	12
I12	10 Feb 2016	Wind Speed (kts)	1
I12	10 Feb 2016	Wind Dir	S
I12	10 Feb 2016	Water Color	Green
I12	10 Feb 2016	Wave Ht Low (ft)	1
I12	10 Feb 2016	Wave Period (sec)	9
I12	10 Feb 2016	Sea State	Calm
I12	10 Feb 2016	High Tide (ft)	5.74
I12	10 Feb 2016	High Tide Time	948
I12	10 Feb 2016	Low Tide (ft)	0.68
I12	10 Feb 2016	Low Tide Time	348
I12	10 Feb 2016	Comments	Lobster floats

Station	Date	Parameter	Value
I13	09 Feb 2016	Depth (m)	38
I13	09 Feb 2016	Arrive Time	1224
I13	09 Feb 2016	Depart Time	1228
I13	09 Feb 2016	Air Temp (C)	18
I13	09 Feb 2016	Weather	Clear
I13	09 Feb 2016	Visibility (mi)	14
I13	09 Feb 2016	Wind Speed (kts)	8
I13	09 Feb 2016	Wind Dir	S
I13	09 Feb 2016	Water Color	Green
I13	09 Feb 2016	Wave Ht Low (ft)	2
I13	09 Feb 2016	Wave Period (sec)	9
I13	09 Feb 2016	Sea State	Calm
I13	09 Feb 2016	High Tide (ft)	6.09
I13	09 Feb 2016	High Tide Time	905
I13	09 Feb 2016	Low Tide (ft)	-1.16
I13	09 Feb 2016	Low Tide Time	1555
I13	09 Feb 2016	Comments	
I14	10 Feb 2016	Depth (m)	30
I14	10 Feb 2016	Arrive Time	1038
I14	10 Feb 2016	Depart Time	1044
I14	10 Feb 2016	Air Temp (C)	18
I14	10 Feb 2016	Weather	Clear
I14	10 Feb 2016	Visibility (mi)	12
I14	10 Feb 2016	Wind Speed (kts)	2
I14	10 Feb 2016	Wind Dir	E
I14	10 Feb 2016	Water Color	Green
I14	10 Feb 2016	Wave Ht Low (ft)	1
I14	10 Feb 2016	Wave Period (sec)	9
I14	10 Feb 2016	Sea State	Calm
I14	10 Feb 2016	High Tide (ft)	5.74
I14	10 Feb 2016	High Tide Time	948
I14	10 Feb 2016	Low Tide (ft)	0.68
I14	10 Feb 2016	Low Tide Time	348
I14	10 Feb 2016	Comments	
I15	10 Feb 2016	Depth (m)	33
I15	10 Feb 2016	Arrive Time	1027
I15	10 Feb 2016	Depart Time	1033
I15	10 Feb 2016	Air Temp (C)	17
I15	10 Feb 2016	Weather	Clear
I15	10 Feb 2016	Visibility (mi)	12
I15	10 Feb 2016	Wind Speed (kts)	3
I15	10 Feb 2016	Wind Dir	N
I15	10 Feb 2016	Water Color	Green
I15	10 Feb 2016	Wave Ht Low (ft)	1
I15	10 Feb 2016	Wave Period (sec)	9
I15	10 Feb 2016	Sea State	Calm
I15	10 Feb 2016	High Tide (ft)	5.74
I15	10 Feb 2016	High Tide Time	948
I15	10 Feb 2016	Low Tide (ft)	0.68
I15	10 Feb 2016	Low Tide Time	348
I15	10 Feb 2016	Comments	
I16	10 Feb 2016	Depth (m)	26

Station	Date	Parameter	Value
I16	10 Feb 2016	Arrive Time	1010
I16	10 Feb 2016	Depart Time	1016
I16	10 Feb 2016	Air Temp (C)	18
I16	10 Feb 2016	Weather	Clear
I16	10 Feb 2016	Visibility (mi)	12
I16	10 Feb 2016	Wind Speed (kts)	3
I16	10 Feb 2016	Wind Dir	NE
I16	10 Feb 2016	Water Color	Green
I16	10 Feb 2016	Wave Ht Low (ft)	1
I16	10 Feb 2016	Wave Period (sec)	9
I16	10 Feb 2016	Sea State	Calm
I16	10 Feb 2016	High Tide (ft)	5.74
I16	10 Feb 2016	High Tide Time	948
I16	10 Feb 2016	Low Tide (ft)	0.68
I16	10 Feb 2016	Low Tide Time	348
I16	10 Feb 2016	Comments	Lobster floats
I17	10 Feb 2016	Depth (m)	28
I17	10 Feb 2016	Arrive Time	1001
I17	10 Feb 2016	Depart Time	1005
I17	10 Feb 2016	Air Temp (C)	17
I17	10 Feb 2016	Weather	Clear
I17	10 Feb 2016	Visibility (mi)	12
I17	10 Feb 2016	Wind Speed (kts)	2
I17	10 Feb 2016	Wind Dir	SW
I17	10 Feb 2016	Water Color	Green
I17	10 Feb 2016	Wave Ht Low (ft)	1
I17	10 Feb 2016	Wave Period (sec)	9
I17	10 Feb 2016	Sea State	Calm
I17	10 Feb 2016	High Tide (ft)	5.74
I17	10 Feb 2016	High Tide Time	948
I17	10 Feb 2016	Low Tide (ft)	0.68
I17	10 Feb 2016	Low Tide Time	348
I17	10 Feb 2016	Comments	
I18	10 Feb 2016	Depth (m)	21
I18	10 Feb 2016	Arrive Time	949
I18	10 Feb 2016	Depart Time	954
I18	10 Feb 2016	Air Temp (C)	17
I18	10 Feb 2016	Weather	Clear
I18	10 Feb 2016	Visibility (mi)	12
I18	10 Feb 2016	Wind Speed (kts)	4
I18	10 Feb 2016	Wind Dir	N
I18	10 Feb 2016	Water Color	Green
I18	10 Feb 2016	Wave Ht Low (ft)	1
I18	10 Feb 2016	Wave Period (sec)	9
I18	10 Feb 2016	Sea State	Calm
I18	10 Feb 2016	High Tide (ft)	5.74
I18	10 Feb 2016	High Tide Time	948
I18	10 Feb 2016	Low Tide (ft)	0.68
I18	10 Feb 2016	Low Tide Time	348
I18	10 Feb 2016	Comments	
I20	09 Feb 2016	Depth (m)	56
I20	09 Feb 2016	Arrive Time	842

Station	Date	Parameter	Value
I20	09 Feb 2016	Depart Time	848
I20	09 Feb 2016	Air Temp (C)	18
I20	09 Feb 2016	Weather	Clear
I20	09 Feb 2016	Visibility (mi)	14
I20	09 Feb 2016	Wind Speed (kts)	6
I20	09 Feb 2016	Wind Dir	N
I20	09 Feb 2016	Water Color	Green
I20	09 Feb 2016	Wave Ht Low (ft)	1
I20	09 Feb 2016	Wave Period (sec)	11
I20	09 Feb 2016	Sea State	Calm
I20	09 Feb 2016	High Tide (ft)	6.09
I20	09 Feb 2016	High Tide Time	905
I20	09 Feb 2016	Low Tide (ft)	-1.16
I20	09 Feb 2016	Low Tide Time	1555
I20	09 Feb 2016	Comments	
I21	09 Feb 2016	Depth (m)	41
I21	09 Feb 2016	Arrive Time	1242
I21	09 Feb 2016	Depart Time	1245
I21	09 Feb 2016	Air Temp (C)	18
I21	09 Feb 2016	Weather	Clear
I21	09 Feb 2016	Visibility (mi)	14
I21	09 Feb 2016	Wind Speed (kts)	8
I21	09 Feb 2016	Wind Dir	E
I21	09 Feb 2016	Water Color	Green
I21	09 Feb 2016	Wave Ht Low (ft)	2
I21	09 Feb 2016	Wave Period (sec)	9
I21	09 Feb 2016	Sea State	Calm
I21	09 Feb 2016	High Tide (ft)	6.09
I21	09 Feb 2016	High Tide Time	905
I21	09 Feb 2016	Low Tide (ft)	-1.16
I21	09 Feb 2016	Low Tide Time	1555
I21	09 Feb 2016	Comments	none
I22	10 Feb 2016	Depth (m)	30
I22	10 Feb 2016	Arrive Time	1051
I22	10 Feb 2016	Depart Time	1054
I22	10 Feb 2016	Air Temp (C)	18
I22	10 Feb 2016	Weather	Clear
I22	10 Feb 2016	Visibility (mi)	12
I22	10 Feb 2016	Wind Speed (kts)	3
I22	10 Feb 2016	Wind Dir	S
I22	10 Feb 2016	Water Color	Green
I22	10 Feb 2016	Wave Ht Low (ft)	1
I22	10 Feb 2016	Wave Period (sec)	9
I22	10 Feb 2016	Sea State	Calm
I22	10 Feb 2016	High Tide (ft)	5.74
I22	10 Feb 2016	High Tide Time	948
I22	10 Feb 2016	Low Tide (ft)	0.68
I22	10 Feb 2016	Low Tide Time	348
I22	10 Feb 2016	Comments	
I23	10 Feb 2016	Depth (m)	22
I23	10 Feb 2016	Arrive Time	1106
I23	10 Feb 2016	Depart Time	1109

Station	Date	Parameter	Value
I23	10 Feb 2016	Air Temp (C)	19
I23	10 Feb 2016	Weather	Clear
I23	10 Feb 2016	Visibility (mi)	12
I23	10 Feb 2016	Wind Speed (kts)	0
I23	10 Feb 2016	Wind Dir	
I23	10 Feb 2016	Water Color	Green
I23	10 Feb 2016	Wave Ht Low (ft)	1
I23	10 Feb 2016	Wave Period (sec)	9
I23	10 Feb 2016	Sea State	Calm
I23	10 Feb 2016	High Tide (ft)	5.74
I23	10 Feb 2016	High Tide Time	948
I23	10 Feb 2016	Low Tide (ft)	0.68
I23	10 Feb 2016	Low Tide Time	348
I23	10 Feb 2016	Comments	
I27	10 Feb 2016	Depth (m)	30
I27	10 Feb 2016	Arrive Time	818
I27	10 Feb 2016	Depart Time	822
I27	10 Feb 2016	Air Temp (C)	17
I27	10 Feb 2016	Weather	Clear
I27	10 Feb 2016	Visibility (mi)	12
I27	10 Feb 2016	Wind Speed (kts)	7
I27	10 Feb 2016	Wind Dir	NW
I27	10 Feb 2016	Water Color	Green
I27	10 Feb 2016	Wave Ht Low (ft)	2
I27	10 Feb 2016	Wave Period (sec)	9
I27	10 Feb 2016	Sea State	Calm
I27	10 Feb 2016	High Tide (ft)	5.74
I27	10 Feb 2016	High Tide Time	948
I27	10 Feb 2016	Low Tide (ft)	0.68
I27	10 Feb 2016	Low Tide Time	348
I27	10 Feb 2016	Comments	
I28	11 Feb 2016	Depth (m)	57
I28	11 Feb 2016	Arrive Time	916
I28	11 Feb 2016	Depart Time	921
I28	11 Feb 2016	Air Temp (C)	17
I28	11 Feb 2016	Weather	Clear
I28	11 Feb 2016	Visibility (mi)	8
I28	11 Feb 2016	Wind Speed (kts)	5
I28	11 Feb 2016	Wind Dir	NW
I28	11 Feb 2016	Water Color	Greenish-Blue
I28	11 Feb 2016	Wave Ht Low (ft)	2
I28	11 Feb 2016	Wave Period (sec)	16
I28	11 Feb 2016	Sea State	Calm
I28	11 Feb 2016	High Tide (ft)	5.18
I28	11 Feb 2016	High Tide Time	1034
I28	11 Feb 2016	Low Tide (ft)	0.68
I28	11 Feb 2016	Low Tide Time	439
I28	11 Feb 2016	Comments	
I29	11 Feb 2016	Depth (m)	38
I29	11 Feb 2016	Arrive Time	947
I29	11 Feb 2016	Depart Time	951
I29	11 Feb 2016	Air Temp (C)	17

Station	Date	Parameter	Value
I29	11 Feb 2016	Weather	Clear
I29	11 Feb 2016	Visibility (mi)	8
I29	11 Feb 2016	Wind Speed (kts)	3
I29	11 Feb 2016	Wind Dir	NW
I29	11 Feb 2016	Water Color	Greenish-Blue
I29	11 Feb 2016	Wave Ht Low (ft)	2
I29	11 Feb 2016	Wave Period (sec)	16
I29	11 Feb 2016	Sea State	Calm
I29	11 Feb 2016	High Tide (ft)	5.18
I29	11 Feb 2016	High Tide Time	1034
I29	11 Feb 2016	Low Tide (ft)	0.68
I29	11 Feb 2016	Low Tide Time	439
I29	11 Feb 2016	Comments	
I30	11 Feb 2016	Depth (m)	29
I30	11 Feb 2016	Arrive Time	1004
I30	11 Feb 2016	Depart Time	1007
I30	11 Feb 2016	Air Temp (C)	18
I30	11 Feb 2016	Weather	Clear
I30	11 Feb 2016	Visibility (mi)	8
I30	11 Feb 2016	Wind Speed (kts)	2
I30	11 Feb 2016	Wind Dir	W
I30	11 Feb 2016	Water Color	Greenish-Blue
I30	11 Feb 2016	Wave Ht Low (ft)	2
I30	11 Feb 2016	Wave Period (sec)	16
I30	11 Feb 2016	Sea State	Calm
I30	11 Feb 2016	High Tide (ft)	5.18
I30	11 Feb 2016	High Tide Time	1034
I30	11 Feb 2016	Low Tide (ft)	0.68
I30	11 Feb 2016	Low Tide Time	439
I30	11 Feb 2016	Comments	
I31	11 Feb 2016	Depth (m)	21
I31	11 Feb 2016	Arrive Time	1019
I31	11 Feb 2016	Depart Time	1021
I31	11 Feb 2016	Air Temp (C)	19
I31	11 Feb 2016	Weather	Clear
I31	11 Feb 2016	Visibility (mi)	8
I31	11 Feb 2016	Wind Speed (kts)	1
I31	11 Feb 2016	Wind Dir	S
I31	11 Feb 2016	Water Color	Greenish-Blue
I31	11 Feb 2016	Wave Ht Low (ft)	2
I31	11 Feb 2016	Wave Period (sec)	16
I31	11 Feb 2016	Sea State	Calm
I31	11 Feb 2016	High Tide (ft)	5.18
I31	11 Feb 2016	High Tide Time	1034
I31	11 Feb 2016	Low Tide (ft)	0.68
I31	11 Feb 2016	Low Tide Time	439
I31	11 Feb 2016	Comments	
I33	11 Feb 2016	Depth (m)	31
I33	11 Feb 2016	Arrive Time	857
I33	11 Feb 2016	Depart Time	900
I33	11 Feb 2016	Air Temp (C)	17
I33	11 Feb 2016	Weather	Clear

Station	Date	Parameter	Value
I33	11 Feb 2016	Visibility (mi)	8
I33	11 Feb 2016	Wind Speed (kts)	5
I33	11 Feb 2016	Wind Dir	NE
I33	11 Feb 2016	Water Color	Greenish-Blue
I33	11 Feb 2016	Wave Ht Low (ft)	2
I33	11 Feb 2016	Wave Period (sec)	16
I33	11 Feb 2016	Sea State	Calm
I33	11 Feb 2016	High Tide (ft)	5.18
I33	11 Feb 2016	High Tide Time	1034
I33	11 Feb 2016	Low Tide (ft)	0.68
I33	11 Feb 2016	Low Tide Time	439
I33	11 Feb 2016	Comments	
I34	11 Feb 2016	Depth (m)	21
I34	11 Feb 2016	Arrive Time	844
I34	11 Feb 2016	Depart Time	847
I34	11 Feb 2016	Air Temp (C)	17
I34	11 Feb 2016	Weather	Clear
I34	11 Feb 2016	Visibility (mi)	8
I34	11 Feb 2016	Wind Speed (kts)	6
I34	11 Feb 2016	Wind Dir	NW
I34	11 Feb 2016	Water Color	Brownish-Green
I34	11 Feb 2016	Wave Ht Low (ft)	2
I34	11 Feb 2016	Wave Period (sec)	16
I34	11 Feb 2016	Sea State	Calm
I34	11 Feb 2016	High Tide (ft)	5.18
I34	11 Feb 2016	High Tide Time	1034
I34	11 Feb 2016	Low Tide (ft)	0.68
I34	11 Feb 2016	Low Tide Time	439
I34	11 Feb 2016	Comments	
I35	11 Feb 2016	Depth (m)	21
I35	11 Feb 2016	Arrive Time	1114
I35	11 Feb 2016	Depart Time	1117
I35	11 Feb 2016	Air Temp (C)	21
I35	11 Feb 2016	Weather	Clear
I35	11 Feb 2016	Visibility (mi)	10
I35	11 Feb 2016	Wind Speed (kts)	2
I35	11 Feb 2016	Wind Dir	SE
I35	11 Feb 2016	Water Color	Green
I35	11 Feb 2016	Wave Ht Low (ft)	2
I35	11 Feb 2016	Wave Period (sec)	16
I35	11 Feb 2016	Sea State	Calm
I35	11 Feb 2016	High Tide (ft)	5.18
I35	11 Feb 2016	High Tide Time	1034
I35	11 Feb 2016	Low Tide (ft)	0.68
I35	11 Feb 2016	Low Tide Time	439
I35	11 Feb 2016	Comments	
I36	11 Feb 2016	Depth (m)	13
I36	11 Feb 2016	Arrive Time	1057
I36	11 Feb 2016	Depart Time	1100
I36	11 Feb 2016	Air Temp (C)	19
I36	11 Feb 2016	Weather	Clear
I36	11 Feb 2016	Visibility (mi)	10

Station	Date	Parameter	Value
I36	11 Feb 2016	Wind Speed (kts)	4
I36	11 Feb 2016	Wind Dir	NE
I36	11 Feb 2016	Water Color	Green
I36	11 Feb 2016	Wave Ht Low (ft)	2
I36	11 Feb 2016	Wave Period (sec)	16
I36	11 Feb 2016	Sea State	Calm
I36	11 Feb 2016	High Tide (ft)	5.18
I36	11 Feb 2016	High Tide Time	1034
I36	11 Feb 2016	Low Tide (ft)	0.68
I36	11 Feb 2016	Low Tide Time	439
I36	11 Feb 2016	Comments	
I37	11 Feb 2016	Depth (m)	14
I37	11 Feb 2016	Arrive Time	828
I37	11 Feb 2016	Depart Time	832
I37	11 Feb 2016	Air Temp (C)	16
I37	11 Feb 2016	Weather	Partly Cloudy
I37	11 Feb 2016	Visibility (mi)	5
I37	11 Feb 2016	Wind Speed (kts)	4
I37	11 Feb 2016	Wind Dir	SW
I37	11 Feb 2016	Water Color	Brownish-Green
I37	11 Feb 2016	Wave Ht Low (ft)	3
I37	11 Feb 2016	Wave Period (sec)	9
I37	11 Feb 2016	Sea State	Calm
I37	11 Feb 2016	High Tide (ft)	5.18
I37	11 Feb 2016	High Tide Time	1034
I37	11 Feb 2016	Low Tide (ft)	0.68
I37	11 Feb 2016	Low Tide Time	439
I37	11 Feb 2016	Comments	
I38	11 Feb 2016	Depth (m)	13
I38	11 Feb 2016	Arrive Time	1129
I38	11 Feb 2016	Depart Time	1131
I38	11 Feb 2016	Air Temp (C)	20
I38	11 Feb 2016	Weather	Clear
I38	11 Feb 2016	Visibility (mi)	10
I38	11 Feb 2016	Wind Speed (kts)	6
I38	11 Feb 2016	Wind Dir	E
I38	11 Feb 2016	Water Color	Green
I38	11 Feb 2016	Wave Ht Low (ft)	2
I38	11 Feb 2016	Wave Period (sec)	16
I38	11 Feb 2016	Sea State	Calm
I38	11 Feb 2016	High Tide (ft)	5.18
I38	11 Feb 2016	High Tide Time	1034
I38	11 Feb 2016	Low Tide (ft)	0.68
I38	11 Feb 2016	Low Tide Time	439
I38	11 Feb 2016	Comments	

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 (σ -t)	Chlor (μ g/L)
I1	09 Feb 2016	1	15.59	83.82	7.9	33.60	8.1	24.8	1.35
I1	09 Feb 2016	2	15.58	83.90	7.8	33.60	8.1	24.8	1.44
I1	09 Feb 2016	3	15.58	83.83	7.8	33.60	8.1	24.8	1.57
I1	09 Feb 2016	4	15.57	83.83	7.8	33.60	8.1	24.8	1.68
I1	09 Feb 2016	5	15.57	83.90	7.8	33.60	8.1	24.8	1.82
I1	09 Feb 2016	6	15.56	83.80	7.8	33.60	8.1	24.8	1.91
I1	09 Feb 2016	7	15.55	83.80	7.8	33.60	8.1	24.8	2.04
I1	09 Feb 2016	8	15.54	83.81	7.7	33.60	8.1	24.8	2.11
I1	09 Feb 2016	9	15.53	83.95	7.7	33.60	8.1	24.8	2.18
I1	09 Feb 2016	10	15.52	84.02	7.7	33.60	8.1	24.8	2.26
I1	09 Feb 2016	11	15.51	84.18	7.7	33.59	8.1	24.8	2.29
I1	09 Feb 2016	12	15.51	84.21	7.8	33.59	8.1	24.8	2.31
I1	09 Feb 2016	13	15.50	84.26	7.7	33.59	8.1	24.8	2.36
I1	09 Feb 2016	14	15.49	84.37	7.7	33.59	8.1	24.8	2.35
I1	09 Feb 2016	15	15.49	84.47	7.6	33.59	8.1	24.8	2.40
I1	09 Feb 2016	16	15.49	84.47	7.6	33.59	8.1	24.8	2.47
I1	09 Feb 2016	17	15.46	84.54	7.6	33.59	8.1	24.8	2.55
I1	09 Feb 2016	18	15.44	84.49	7.6	33.59	8.1	24.8	2.66
I1	09 Feb 2016	19	15.42	84.42	7.6	33.59	8.1	24.8	2.73
I1	09 Feb 2016	20	15.41	84.40	7.5	33.59	8.1	24.8	2.64
I1	09 Feb 2016	21	15.40	84.49	7.5	33.59	8.1	24.8	2.34
I1	09 Feb 2016	22	15.37	84.64	7.5	33.59	8.1	24.8	2.04
I1	09 Feb 2016	23	15.32	85.32	7.4	33.58	8.1	24.8	1.92
I1	09 Feb 2016	24	15.30	85.59	7.4	33.58	8.1	24.8	1.84
I1	09 Feb 2016	25	15.28	85.60	7.3	33.58	8.1	24.8	1.80
I1	09 Feb 2016	26	15.27	85.64	7.3	33.58	8.1	24.8	1.79
I1	09 Feb 2016	27	15.26	85.63	7.3	33.58	8.1	24.8	1.76
I1	09 Feb 2016	28	15.26	85.72	7.3	33.58	8.1	24.8	1.70
I1	09 Feb 2016	29	15.26	85.68	7.2	33.58	8.1	24.8	1.61
I1	09 Feb 2016	30	15.24	85.80	7.2	33.58	8.1	24.8	1.56
I1	09 Feb 2016	31	15.22	85.97	7.2	33.58	8.1	24.8	1.54
I1	09 Feb 2016	32	15.22	85.95	7.2	33.58	8.1	24.8	1.52
I1	09 Feb 2016	33	15.20	85.96	7.3	33.58	8.1	24.8	1.50
I1	09 Feb 2016	34	15.20	85.97	7.2	33.58	8.1	24.8	1.47
I1	09 Feb 2016	35	15.20	85.96	7.2	33.58	8.1	24.8	1.45
I1	09 Feb 2016	36	15.20	86.02	7.3	33.58	8.1	24.8	1.46
I1	09 Feb 2016	37	15.20	85.97	7.2	33.58	8.1	24.8	1.44
I1	09 Feb 2016	38	15.20	86.07	7.2	33.58	8.1	24.8	1.43
I1	09 Feb 2016	39	15.20	86.06	7.2	33.58	8.1	24.8	1.42
I1	09 Feb 2016	40	15.19	86.08	7.2	33.58	8.1	24.8	1.46
I1	09 Feb 2016	41	15.18	85.96	7.2	33.58	8.1	24.8	1.45
I1	09 Feb 2016	42	15.18	85.92	7.2	33.58	8.1	24.8	1.44
I1	09 Feb 2016	43	15.17	85.83	7.2	33.58	8.1	24.8	1.44
I1	09 Feb 2016	44	15.16	85.79	7.2	33.58	8.1	24.8	1.46
I1	09 Feb 2016	45	15.14	85.65	7.1	33.58	8.1	24.8	1.47
I1	09 Feb 2016	46	15.12	85.52	7.1	33.58	8.1	24.8	1.43
I1	09 Feb 2016	47	15.10	85.31	7.1	33.57	8.1	24.9	1.42
I1	09 Feb 2016	48	15.09	85.37	7.1	33.57	8.1	24.9	1.39
I1	09 Feb 2016	49	15.09	85.48	7.1	33.57	8.1	24.9	1.33
I1	09 Feb 2016	50	15.07	85.50	7.1	33.57	8.1	24.9	1.30
I1	09 Feb 2016	51	15.05	85.81	7.1	33.57	8.1	24.9	1.31

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I1	09 Feb 2016	52	15.04	85.75	7.0	33.57	8.1	24.9	1.30
I1	09 Feb 2016	53	15.03	85.68	7.0	33.57	8.1	24.9	1.29
I1	09 Feb 2016	54	15.03	85.60	7.0	33.57	8.1	24.9	1.24
I1	09 Feb 2016	55	15.01	85.74	7.0	33.57	8.1	24.9	1.19
I1	09 Feb 2016	56	14.94	85.70	6.9	33.57	8.1	24.9	1.15
I1	09 Feb 2016	57	14.90	85.75	6.8	33.57	8.1	24.9	1.02
I1	09 Feb 2016	58	14.76	85.83	6.4	33.57	8.1	24.9	0.80
I1	09 Feb 2016	59	14.13	86.07	6.1	33.56	8.0	25.1	0.68
I1	09 Feb 2016	60	13.79	86.21	5.9	33.56	8.0	25.1	0.62
I2	09 Feb 2016	1	15.46	83.67	7.9	33.59	8.1	24.8	0.95
I2	09 Feb 2016	2	15.45	83.74	7.9	33.59	8.1	24.8	0.94
I2	09 Feb 2016	3	15.45	83.80	7.9	33.59	8.1	24.8	0.99
I2	09 Feb 2016	4	15.46	83.85	7.8	33.59	8.1	24.8	1.23
I2	09 Feb 2016	5	15.42	83.73	7.8	33.59	8.1	24.8	1.42
I2	09 Feb 2016	6	15.41	83.58	7.7	33.59	8.1	24.8	1.65
I2	09 Feb 2016	7	15.39	83.57	7.8	33.59	8.1	24.8	1.83
I2	09 Feb 2016	8	15.36	83.61	7.7	33.59	8.1	24.8	1.98
I2	09 Feb 2016	9	15.36	83.57	7.7	33.59	8.1	24.8	2.05
I2	09 Feb 2016	10	15.36	83.62	7.7	33.59	8.1	24.8	2.18
I2	09 Feb 2016	11	15.35	83.47	7.6	33.59	8.1	24.8	2.24
I2	09 Feb 2016	12	15.34	83.65	7.6	33.59	8.1	24.8	2.30
I2	09 Feb 2016	13	15.31	83.54	7.6	33.59	8.1	24.8	2.26
I2	09 Feb 2016	14	15.30	83.71	7.6	33.59	8.1	24.8	2.28
I2	09 Feb 2016	15	15.29	83.65	7.6	33.58	8.1	24.8	2.29
I2	09 Feb 2016	16	15.26	83.60	7.6	33.58	8.1	24.8	2.25
I2	09 Feb 2016	17	15.25	83.64	7.6	33.58	8.1	24.8	2.19
I2	09 Feb 2016	18	15.23	83.54	7.5	33.58	8.1	24.8	2.21
I2	09 Feb 2016	19	15.20	83.52	7.5	33.58	8.1	24.8	2.23
I2	09 Feb 2016	20	15.18	83.50	7.5	33.58	8.1	24.8	2.14
I2	09 Feb 2016	21	15.13	83.40	7.5	33.58	8.1	24.8	2.05
I2	09 Feb 2016	22	15.11	83.36	7.4	33.58	8.1	24.9	2.03
I2	09 Feb 2016	23	15.09	83.39	7.3	33.58	8.1	24.9	1.99
I2	09 Feb 2016	24	15.07	83.48	7.2	33.57	8.1	24.9	1.86
I2	09 Feb 2016	25	15.02	83.61	7.1	33.57	8.1	24.9	1.84
I2	09 Feb 2016	26	15.00	83.89	7.1	33.57	8.1	24.9	1.74
I2	09 Feb 2016	27	14.99	84.03	7.0	33.57	8.1	24.9	1.50
I2	09 Feb 2016	28	14.94	84.39	6.8	33.56	8.1	24.9	1.34
I2	09 Feb 2016	29	14.86	84.78	6.7	33.56	8.1	24.9	1.19
I2	09 Feb 2016	30	14.81	84.77	6.6	33.55	8.1	24.9	1.09
I2	09 Feb 2016	31	14.77	84.07	6.7	33.55	8.1	24.9	1.07
I2	09 Feb 2016	32	14.77	84.00	6.7	33.55	8.1	24.9	1.07
I3	09 Feb 2016	1	14.86	79.83	7.4	33.56	8.1	24.9	0.95
I3	09 Feb 2016	2	14.85	80.10	7.3	33.56	8.1	24.9	1.10
I3	09 Feb 2016	3	14.84	79.83	7.3	33.56	8.1	24.9	1.33
I3	09 Feb 2016	4	14.84	79.81	7.3	33.56	8.1	24.9	1.64
I3	09 Feb 2016	5	14.81	79.72	7.3	33.56	8.1	24.9	1.90
I3	09 Feb 2016	6	14.77	79.31	7.3	33.56	8.1	24.9	2.55
I3	09 Feb 2016	7	14.76	79.01	7.3	33.56	8.1	24.9	2.78
I3	09 Feb 2016	8	14.74	79.09	7.3	33.56	8.1	24.9	2.89
I3	09 Feb 2016	9	14.72	78.77	7.3	33.56	8.1	24.9	3.02
I3	09 Feb 2016	10	14.70	78.67	7.2	33.56	8.1	24.9	3.25
I3	09 Feb 2016	11	14.68	78.18	7.2	33.56	8.1	24.9	3.21
I3	09 Feb 2016	12	14.66	78.24	7.1	33.56	8.1	24.9	3.35

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I3	09 Feb 2016	13	14.61	77.87	7.0	33.56	8.1	24.9	2.83
I3	09 Feb 2016	14	14.54	76.51	6.9	33.55	8.1	25.0	2.93
I3	09 Feb 2016	15	14.50	76.01	6.9	33.55	8.1	25.0	2.91
I3	09 Feb 2016	16	14.49	76.04	6.8	33.55	8.1	25.0	2.86
I3	09 Feb 2016	17	14.46	75.27	6.8	33.55	8.1	25.0	2.71
I3	09 Feb 2016	18	14.46	74.58	6.8	33.55	8.1	25.0	2.73
I3	09 Feb 2016	19	14.46	74.18	6.8	33.55	8.1	25.0	2.85
I3	09 Feb 2016	20	14.46	74.37	6.8	33.55	8.1	25.0	2.60
I3	09 Feb 2016	21	14.46	74.37	6.8	33.55	8.1	25.0	2.68
I3	09 Feb 2016	22	14.45	74.04	6.7	33.55	8.1	25.0	2.69
I3	09 Feb 2016	23	14.45	74.06	6.8	33.55	8.1	25.0	2.68
I3	09 Feb 2016	24	14.46	74.47	6.8	33.55	8.1	25.0	2.58
I3	09 Feb 2016	25	14.46	74.73	6.8	33.55	8.1	25.0	2.75
I3	09 Feb 2016	26	14.46	74.79	6.8	33.55	8.1	25.0	2.73
I3	09 Feb 2016	27	14.46	73.23	6.8	33.55	8.1	25.0	2.63
I4	09 Feb 2016	1	14.61	65.15	7.2	33.57	8.1	25.0	1.19
I4	09 Feb 2016	2	14.61	65.38	7.2	33.57	8.1	25.0	1.53
I4	09 Feb 2016	3	14.59	65.21	7.2	33.57	8.1	25.0	1.89
I4	09 Feb 2016	4	14.57	65.08	7.2	33.57	8.1	25.0	2.32
I4	09 Feb 2016	5	14.57	64.75	7.2	33.57	8.1	25.0	2.54
I4	09 Feb 2016	6	14.57	64.93	7.1	33.57	8.1	25.0	2.64
I4	09 Feb 2016	7	14.53	64.33	7.1	33.57	8.1	25.0	2.95
I4	09 Feb 2016	8	14.52	64.60	7.0	33.57	8.1	25.0	2.99
I4	09 Feb 2016	9	14.50	64.25	7.0	33.57	8.1	25.0	2.80
I4	09 Feb 2016	10	14.49	64.18	7.0	33.57	8.1	25.0	2.79
I4	09 Feb 2016	11	14.49	63.91	7.0	33.57	8.1	25.0	2.77
I4	09 Feb 2016	12	14.49	62.60	7.0	33.57	8.1	25.0	2.81
I4	09 Feb 2016	13	14.49	62.44	7.0	33.57	8.1	25.0	2.82
I4	09 Feb 2016	14	14.48	60.72	7.0	33.57	8.1	25.0	2.85
I4	09 Feb 2016	15	14.48	57.40	7.0	33.57	8.1	25.0	2.78
I4	09 Feb 2016	16	14.48	55.79	7.0	33.57	8.1	25.0	2.90
I4	09 Feb 2016	17	14.47	50.08	7.0	33.57	8.1	25.0	2.96
I4	09 Feb 2016	18	14.47	46.59	7.0	33.57	8.1	25.0	3.05
I5	09 Feb 2016	1	14.67	52.88	7.3	33.57	8.1	24.9	1.39
I5	09 Feb 2016	2	14.65	52.54	7.3	33.57	8.1	24.9	1.96
I5	09 Feb 2016	3	14.62	52.11	7.3	33.57	8.1	25.0	2.59
I5	09 Feb 2016	4	14.61	51.82	7.3	33.57	8.1	25.0	2.90
I5	09 Feb 2016	5	14.56	51.34	7.3	33.58	8.1	25.0	3.17
I5	09 Feb 2016	6	14.54	51.43	7.3	33.58	8.1	25.0	3.19
I5	09 Feb 2016	7	14.53	52.27	7.2	33.58	8.1	25.0	2.92
I5	09 Feb 2016	8	14.52	53.69	7.2	33.58	8.1	25.0	2.94
I5	09 Feb 2016	9	14.52	53.30	7.2	33.58	8.1	25.0	2.93
I5	09 Feb 2016	10	14.50	49.78	7.1	33.58	8.1	25.0	2.69
I5	09 Feb 2016	11	14.46	42.90	7.1	33.57	8.1	25.0	2.82
I5	09 Feb 2016	12	14.41	27.88	7.0	33.56	8.0	25.0	3.21
I5	09 Feb 2016	13	14.38	16.98	7.0	33.56	8.0	25.0	3.92
I5	09 Feb 2016	14	14.38	7.11	7.0	33.55	8.0	25.0	3.63
I6	09 Feb 2016	1	15.40	81.49	7.8	33.58	8.1	24.8	1.01
I6	09 Feb 2016	2	15.37	81.57	7.8	33.58	8.1	24.8	1.15
I6	09 Feb 2016	3	15.34	81.46	7.8	33.58	8.1	24.8	1.35
I6	09 Feb 2016	4	15.31	81.28	7.8	33.58	8.1	24.8	1.55
I6	09 Feb 2016	5	15.29	81.13	7.8	33.58	8.1	24.8	1.70

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I6	09 Feb 2016	6	15.26	80.93	7.7	33.58	8.1	24.8	1.94
I6	09 Feb 2016	7	15.23	80.93	7.7	33.58	8.1	24.8	2.14
I6	09 Feb 2016	8	15.19	80.58	7.6	33.58	8.1	24.8	2.40
I6	09 Feb 2016	9	15.13	80.28	7.5	33.57	8.1	24.8	2.51
I6	09 Feb 2016	10	15.08	79.84	7.5	33.57	8.1	24.9	2.66
I6	09 Feb 2016	11	15.02	79.54	7.5	33.56	8.1	24.9	3.06
I6	09 Feb 2016	12	14.98	78.46	7.4	33.56	8.1	24.9	3.08
I6	09 Feb 2016	13	14.90	77.55	7.3	33.56	8.1	24.9	3.09
I6	09 Feb 2016	14	14.80	77.14	7.2	33.56	8.1	24.9	3.08
I6	09 Feb 2016	15	14.72	77.26	7.1	33.56	8.1	24.9	3.01
I6	09 Feb 2016	16	14.64	77.27	7.0	33.55	8.1	24.9	2.88
I6	09 Feb 2016	17	14.60	77.41	7.0	33.55	8.1	24.9	2.73
I6	09 Feb 2016	18	14.58	77.80	7.0	33.55	8.1	24.9	2.73
I6	09 Feb 2016	19	14.57	77.94	6.9	33.55	8.1	24.9	2.56
I6	09 Feb 2016	20	14.53	78.34	6.6	33.55	8.1	25.0	2.18
I6	09 Feb 2016	21	14.40	79.29	6.5	33.54	8.1	25.0	2.02
I6	09 Feb 2016	22	14.37	79.45	6.4	33.53	8.0	25.0	1.80
I6	09 Feb 2016	23	14.33	79.15	6.4	33.53	8.0	25.0	1.71
I6	09 Feb 2016	24	14.33	78.80	6.4	33.53	8.0	25.0	1.82
I6	09 Feb 2016	25	14.33	78.78	6.4	33.53	8.0	25.0	1.76
I6	09 Feb 2016	26	14.32	78.60	6.3	33.53	8.0	25.0	1.73
I7	09 Feb 2016	1	15.62	84.44	7.9	33.59	8.1	24.8	1.19
I7	09 Feb 2016	2	15.62	84.39	7.8	33.59	8.1	24.8	1.23
I7	09 Feb 2016	3	15.61	84.43	7.8	33.59	8.1	24.8	1.37
I7	09 Feb 2016	4	15.61	84.40	7.8	33.59	8.1	24.8	1.46
I7	09 Feb 2016	5	15.61	84.35	7.8	33.59	8.1	24.8	1.59
I7	09 Feb 2016	6	15.61	84.39	7.8	33.59	8.1	24.8	1.76
I7	09 Feb 2016	7	15.60	84.32	7.8	33.59	8.1	24.8	1.92
I7	09 Feb 2016	8	15.60	84.32	7.8	33.59	8.1	24.8	2.05
I7	09 Feb 2016	9	15.59	84.30	7.8	33.59	8.1	24.8	2.13
I7	09 Feb 2016	10	15.59	84.26	7.8	33.59	8.1	24.8	2.20
I7	09 Feb 2016	11	15.59	84.27	7.8	33.59	8.1	24.8	2.24
I7	09 Feb 2016	12	15.59	84.32	7.8	33.59	8.1	24.8	2.24
I7	09 Feb 2016	13	15.59	84.36	7.7	33.59	8.1	24.8	2.24
I7	09 Feb 2016	14	15.59	84.35	7.8	33.59	8.1	24.8	2.28
I7	09 Feb 2016	15	15.59	84.31	7.8	33.59	8.1	24.8	2.26
I7	09 Feb 2016	16	15.59	84.48	7.8	33.59	8.1	24.8	2.26
I7	09 Feb 2016	17	15.59	84.52	7.8	33.59	8.1	24.8	2.30
I7	09 Feb 2016	18	15.59	84.55	7.8	33.59	8.1	24.8	2.32
I7	09 Feb 2016	19	15.58	84.64	7.7	33.59	8.1	24.8	2.37
I7	09 Feb 2016	20	15.58	84.71	7.7	33.59	8.1	24.8	2.42
I7	09 Feb 2016	21	15.58	84.72	7.8	33.59	8.1	24.8	2.52
I7	09 Feb 2016	22	15.58	84.81	7.8	33.59	8.1	24.8	2.61
I7	09 Feb 2016	23	15.56	84.93	7.8	33.59	8.1	24.8	2.71
I7	09 Feb 2016	24	15.55	84.82	7.7	33.59	8.1	24.8	2.71
I7	09 Feb 2016	25	15.54	84.81	7.6	33.59	8.1	24.8	2.72
I7	09 Feb 2016	26	15.52	84.78	7.6	33.59	8.1	24.8	2.68
I7	09 Feb 2016	27	15.52	84.90	7.6	33.59	8.1	24.8	2.59
I7	09 Feb 2016	28	15.52	85.02	7.6	33.59	8.1	24.8	2.51
I7	09 Feb 2016	29	15.51	85.22	7.6	33.59	8.1	24.8	2.40
I7	09 Feb 2016	30	15.51	85.47	7.6	33.59	8.1	24.8	2.42
I7	09 Feb 2016	31	15.51	85.44	7.6	33.60	8.1	24.8	2.48
I7	09 Feb 2016	32	15.51	85.46	7.6	33.60	8.1	24.8	2.39
I7	09 Feb 2016	33	15.51	85.43	7.6	33.60	8.1	24.8	2.20

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
17	09 Feb 2016	34	15.50	85.55	7.5	33.60	8.1	24.8	1.97
17	09 Feb 2016	35	15.49	85.84	7.5	33.59	8.1	24.8	1.82
17	09 Feb 2016	36	15.48	86.26	7.5	33.59	8.1	24.8	1.71
17	09 Feb 2016	37	15.47	86.51	7.5	33.59	8.1	24.8	1.58
17	09 Feb 2016	38	15.47	86.68	7.4	33.59	8.1	24.8	1.47
17	09 Feb 2016	39	15.46	86.77	7.4	33.59	8.1	24.8	1.44
17	09 Feb 2016	40	15.45	86.88	7.4	33.59	8.1	24.8	1.43
17	09 Feb 2016	41	15.45	86.89	7.4	33.59	8.1	24.8	1.41
17	09 Feb 2016	42	15.44	86.87	7.3	33.59	8.1	24.8	1.39
17	09 Feb 2016	43	15.43	86.88	7.3	33.59	8.1	24.8	1.37
17	09 Feb 2016	44	15.40	86.80	7.3	33.59	8.1	24.8	1.36
17	09 Feb 2016	45	15.38	86.62	7.3	33.59	8.1	24.8	1.31
17	09 Feb 2016	46	15.37	86.56	7.2	33.59	8.1	24.8	1.22
17	09 Feb 2016	47	15.25	86.54	7.1	33.59	8.1	24.8	1.16
17	09 Feb 2016	48	15.17	86.39	7.1	33.58	8.1	24.8	1.10
17	09 Feb 2016	49	15.13	86.11	7.1	33.58	8.1	24.9	1.09
17	09 Feb 2016	50	15.09	85.59	7.1	33.58	8.1	24.9	1.08
17	09 Feb 2016	51	15.07	85.03	7.0	33.58	8.1	24.9	1.08
17	09 Feb 2016	52	15.07	84.73	7.0	33.58	8.1	24.9	1.07
18	09 Feb 2016	1	15.88	84.29	7.8	33.59	8.1	24.7	0.81
18	09 Feb 2016	2	15.82	84.63	7.8	33.59	8.1	24.7	0.97
18	09 Feb 2016	3	15.69	84.82	7.8	33.59	8.1	24.7	1.11
18	09 Feb 2016	4	15.64	84.50	7.8	33.59	8.1	24.7	1.24
18	09 Feb 2016	5	15.62	84.18	7.8	33.59	8.1	24.7	1.37
18	09 Feb 2016	6	15.60	84.13	7.7	33.59	8.1	24.8	1.51
18	09 Feb 2016	7	15.58	84.12	7.7	33.59	8.1	24.8	1.65
18	09 Feb 2016	8	15.57	84.15	7.7	33.59	8.1	24.8	1.81
18	09 Feb 2016	9	15.56	84.15	7.7	33.59	8.1	24.8	1.96
18	09 Feb 2016	10	15.56	84.09	7.7	33.59	8.1	24.8	2.14
18	09 Feb 2016	11	15.55	84.10	7.8	33.59	8.1	24.8	2.30
18	09 Feb 2016	12	15.55	84.13	7.7	33.59	8.1	24.8	2.41
18	09 Feb 2016	13	15.55	84.09	7.7	33.59	8.1	24.8	2.49
18	09 Feb 2016	14	15.54	84.06	7.7	33.59	8.1	24.8	2.53
18	09 Feb 2016	15	15.54	84.16	7.7	33.59	8.1	24.8	2.59
18	09 Feb 2016	16	15.54	84.30	7.7	33.59	8.1	24.8	2.58
18	09 Feb 2016	17	15.53	84.62	7.7	33.59	8.1	24.8	2.52
18	09 Feb 2016	18	15.52	84.83	7.6	33.59	8.1	24.8	2.32
18	09 Feb 2016	19	15.51	85.00	7.5	33.58	8.1	24.8	2.06
18	09 Feb 2016	20	15.47	85.56	7.4	33.58	8.1	24.8	1.76
18	09 Feb 2016	21	15.42	86.26	7.3	33.58	8.1	24.8	1.70
18	09 Feb 2016	22	15.36	86.87	7.4	33.57	8.1	24.8	1.73
18	09 Feb 2016	23	15.39	86.88	7.4	33.59	8.1	24.8	1.71
18	09 Feb 2016	24	15.36	86.40	7.4	33.59	8.1	24.8	1.68
18	09 Feb 2016	25	15.34	86.31	7.3	33.59	8.1	24.8	1.67
18	09 Feb 2016	26	15.32	86.34	7.3	33.59	8.1	24.8	1.68
18	09 Feb 2016	27	15.30	86.36	7.2	33.59	8.1	24.8	1.60
18	09 Feb 2016	28	15.29	86.37	7.1	33.58	8.1	24.8	1.46
18	09 Feb 2016	29	15.17	86.37	6.9	33.58	8.1	24.8	1.31
18	09 Feb 2016	30	15.02	86.26	6.8	33.57	8.1	24.9	1.17
18	09 Feb 2016	31	14.86	85.89	6.7	33.56	8.1	24.9	1.13
18	09 Feb 2016	32	14.78	84.65	6.6	33.55	8.1	24.9	1.08
18	09 Feb 2016	33	14.77	84.13	6.6	33.55	8.1	24.9	1.08
18	09 Feb 2016	34	14.77	83.83	6.7	33.55	8.1	24.9	1.06
18	09 Feb 2016	35	14.76	83.72	6.7	33.55	8.1	24.9	1.08

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I8	09 Feb 2016	36	14.76	83.60	6.7	33.55	8.1	24.9	1.06
I9	09 Feb 2016	1	15.81	84.23	7.8	33.60	8.1	24.7	0.83
I9	09 Feb 2016	2	15.71	83.51	7.8	33.60	8.1	24.7	1.00
I9	09 Feb 2016	3	15.58	84.03	7.8	33.60	8.1	24.8	1.13
I9	09 Feb 2016	4	15.55	83.63	7.8	33.60	8.1	24.8	1.28
I9	09 Feb 2016	5	15.52	83.46	7.8	33.59	8.1	24.8	1.41
I9	09 Feb 2016	6	15.50	83.45	7.8	33.59	8.1	24.8	1.54
I9	09 Feb 2016	7	15.48	83.43	7.7	33.59	8.1	24.8	1.72
I9	09 Feb 2016	8	15.45	83.46	7.6	33.59	8.1	24.8	1.89
I9	09 Feb 2016	9	15.43	83.39	7.7	33.59	8.1	24.8	2.05
I9	09 Feb 2016	10	15.41	83.28	7.8	33.59	8.1	24.8	2.13
I9	09 Feb 2016	11	15.40	83.17	7.7	33.59	8.1	24.8	2.23
I9	09 Feb 2016	12	15.39	83.28	7.6	33.59	8.1	24.8	2.29
I9	09 Feb 2016	13	15.38	83.52	7.6	33.59	8.1	24.8	2.30
I9	09 Feb 2016	14	15.37	83.79	7.5	33.59	8.1	24.8	2.35
I9	09 Feb 2016	15	15.36	84.09	7.5	33.59	8.1	24.8	2.40
I9	09 Feb 2016	16	15.36	84.15	7.4	33.59	8.1	24.8	2.18
I9	09 Feb 2016	17	15.33	84.37	7.3	33.58	8.1	24.8	1.96
I9	09 Feb 2016	18	15.23	85.13	7.1	33.58	8.1	24.8	1.97
I9	09 Feb 2016	19	15.15	85.54	7.0	33.57	8.1	24.8	1.90
I9	09 Feb 2016	20	15.01	85.16	6.8	33.56	8.1	24.9	1.79
I9	09 Feb 2016	21	14.84	84.62	6.8	33.56	8.1	24.9	1.72
I9	09 Feb 2016	22	14.77	84.36	6.7	33.55	8.1	24.9	1.56
I9	09 Feb 2016	23	14.71	84.44	6.6	33.55	8.1	24.9	1.43
I9	09 Feb 2016	24	14.68	84.51	6.6	33.55	8.1	24.9	1.32
I9	09 Feb 2016	25	14.66	84.54	6.6	33.55	8.1	24.9	1.23
I9	09 Feb 2016	26	14.61	84.44	6.4	33.55	8.1	24.9	1.19
I9	09 Feb 2016	27	14.48	84.08	6.2	33.54	8.0	25.0	1.16
I9	09 Feb 2016	28	14.30	82.55	6.1	33.53	8.0	25.0	1.13
I9	09 Feb 2016	29	14.26	80.65	6.1	33.52	8.0	25.0	1.13
I10	09 Feb 2016	1	15.48	80.70	8.0	33.59	8.1	24.8	1.17
I10	09 Feb 2016	2	15.45	80.68	7.9	33.58	8.1	24.8	1.55
I10	09 Feb 2016	3	15.33	80.27	8.0	33.58	8.1	24.8	1.88
I10	09 Feb 2016	4	15.32	80.01	8.0	33.58	8.1	24.8	2.26
I10	09 Feb 2016	5	15.28	79.23	7.9	33.58	8.1	24.8	2.47
I10	09 Feb 2016	6	15.24	78.66	7.9	33.58	8.1	24.8	2.78
I10	09 Feb 2016	7	15.22	78.38	7.8	33.58	8.1	24.8	2.88
I10	09 Feb 2016	8	15.20	78.56	7.8	33.58	8.1	24.8	3.23
I10	09 Feb 2016	9	15.19	78.84	7.7	33.58	8.1	24.8	3.24
I10	09 Feb 2016	10	15.17	78.93	7.6	33.58	8.1	24.8	2.88
I10	09 Feb 2016	11	15.14	78.79	7.4	33.58	8.1	24.8	2.60
I10	09 Feb 2016	12	15.00	79.27	6.9	33.57	8.1	24.9	2.12
I10	09 Feb 2016	13	14.79	79.51	6.6	33.56	8.1	24.9	1.74
I10	09 Feb 2016	14	14.72	78.56	6.4	33.55	8.1	24.9	1.60
I10	09 Feb 2016	15	14.61	77.24	6.3	33.55	8.1	24.9	1.62
I10	09 Feb 2016	16	14.56	75.57	6.3	33.54	8.0	24.9	1.60
I10	09 Feb 2016	17	14.55	74.49	6.3	33.54	8.0	24.9	1.62
I10	09 Feb 2016	18	14.55	75.48	6.3	33.54	8.0	24.9	1.70
I10	09 Feb 2016	19	14.53	76.66	6.2	33.54	8.0	24.9	1.67
I11	09 Feb 2016	1	15.34	78.28	7.9	33.57	8.1	24.8	1.24
I11	09 Feb 2016	2	15.32	78.16	7.9	33.57	8.1	24.8	1.47
I11	09 Feb 2016	3	15.29	78.26	7.8	33.57	8.1	24.8	1.75

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I11	09 Feb 2016	4	15.24	78.20	7.8	33.57	8.1	24.8	2.05
I11	09 Feb 2016	5	15.12	77.97	7.7	33.57	8.1	24.8	2.39
I11	09 Feb 2016	6	15.07	78.55	7.6	33.57	8.1	24.9	2.56
I11	09 Feb 2016	7	15.01	78.98	7.4	33.57	8.1	24.9	2.64
I11	09 Feb 2016	8	14.96	78.87	7.4	33.56	8.1	24.9	2.64
I11	09 Feb 2016	9	14.91	78.33	7.2	33.56	8.1	24.9	2.76
I11	09 Feb 2016	10	14.89	78.03	7.2	33.56	8.1	24.9	2.75
I11	09 Feb 2016	11	14.88	77.87	7.0	33.56	8.1	24.9	2.46
I11	09 Feb 2016	12	14.82	77.27	6.7	33.56	8.1	24.9	2.09
I11	09 Feb 2016	13	14.71	73.79	6.4	33.55	8.1	24.9	1.97
I12	10 Feb 2016	1	15.18	83.05	7.8	33.58	8.0	24.8	0.81
I12	10 Feb 2016	2	15.11	84.03	7.9	33.58	8.0	24.9	0.95
I12	10 Feb 2016	3	15.08	84.08	7.8	33.58	8.0	24.9	1.05
I12	10 Feb 2016	4	15.06	83.84	7.9	33.58	8.0	24.9	1.18
I12	10 Feb 2016	5	15.06	83.84	7.8	33.58	8.0	24.9	1.29
I12	10 Feb 2016	6	15.05	83.82	7.8	33.58	8.0	24.9	1.42
I12	10 Feb 2016	7	15.04	84.05	7.8	33.58	8.0	24.9	1.54
I12	10 Feb 2016	8	15.04	84.04	7.8	33.58	8.0	24.9	1.66
I12	10 Feb 2016	9	15.03	83.94	7.8	33.58	8.0	24.9	1.80
I12	10 Feb 2016	10	15.02	83.73	7.8	33.58	8.0	24.9	1.81
I12	10 Feb 2016	11	15.02	83.94	7.7	33.58	8.0	24.9	1.84
I12	10 Feb 2016	12	15.02	84.19	7.7	33.58	8.0	24.9	1.74
I12	10 Feb 2016	13	15.02	84.31	7.7	33.58	8.0	24.9	1.71
I12	10 Feb 2016	14	15.01	84.22	7.7	33.58	8.0	24.9	1.76
I12	10 Feb 2016	15	14.98	84.36	7.7	33.58	8.0	24.9	1.64
I12	10 Feb 2016	16	14.96	83.84	7.6	33.58	8.0	24.9	1.73
I12	10 Feb 2016	17	14.91	83.09	7.5	33.58	8.0	24.9	1.73
I12	10 Feb 2016	18	14.85	81.25	7.4	33.58	8.0	24.9	1.83
I12	10 Feb 2016	19	14.83	79.60	7.4	33.58	8.0	24.9	2.01
I12	10 Feb 2016	20	14.82	77.66	7.4	33.58	7.9	24.9	1.89
I12	10 Feb 2016	21	14.81	76.24	7.4	33.58	7.9	24.9	1.93
I12	10 Feb 2016	22	14.80	75.13	7.4	33.59	7.9	24.9	1.85
I12	10 Feb 2016	23	14.80	75.06	7.4	33.59	7.9	24.9	2.06
I12	10 Feb 2016	24	14.79	72.08	7.4	33.59	7.9	24.9	2.04
I12	10 Feb 2016	25	14.79	71.22	7.4	33.59	7.9	24.9	2.01
I12	10 Feb 2016	26	14.78	70.15	7.4	33.59	7.9	24.9	2.10
I12	10 Feb 2016	27	14.78	68.03	7.4	33.59	7.9	24.9	2.08
I12	10 Feb 2016	28	14.78	66.74	7.3	33.59	7.9	24.9	2.20
I13	09 Feb 2016	1	15.90	84.69	7.8	33.59	8.1	24.7	0.79
I13	09 Feb 2016	2	15.92	84.73	7.8	33.59	8.1	24.7	0.84
I13	09 Feb 2016	3	15.87	84.74	7.8	33.59	8.1	24.7	0.98
I13	09 Feb 2016	4	15.73	84.63	7.8	33.59	8.1	24.7	1.13
I13	09 Feb 2016	5	15.66	84.58	7.8	33.58	8.2	24.7	1.24
I13	09 Feb 2016	6	15.63	84.51	7.8	33.58	8.2	24.7	1.34
I13	09 Feb 2016	7	15.61	84.44	7.8	33.58	8.2	24.7	1.45
I13	09 Feb 2016	8	15.60	84.57	7.8	33.58	8.2	24.7	1.55
I13	09 Feb 2016	9	15.59	84.55	7.8	33.58	8.2	24.7	1.78
I13	09 Feb 2016	10	15.59	84.41	7.8	33.58	8.2	24.7	1.92
I13	09 Feb 2016	11	15.58	84.07	7.8	33.58	8.2	24.8	2.01
I13	09 Feb 2016	12	15.57	84.21	7.8	33.58	8.2	24.8	2.01
I13	09 Feb 2016	13	15.57	84.54	7.7	33.58	8.2	24.8	2.10
I13	09 Feb 2016	14	15.56	84.61	7.8	33.58	8.2	24.8	2.27
I13	09 Feb 2016	15	15.56	84.54	7.8	33.58	8.1	24.8	2.33

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I13	09 Feb 2016	16	15.55	84.60	7.8	33.58	8.1	24.8	2.41
I13	09 Feb 2016	17	15.55	84.73	7.8	33.58	8.1	24.8	2.43
I13	09 Feb 2016	18	15.55	84.82	7.8	33.58	8.1	24.8	2.45
I13	09 Feb 2016	19	15.55	84.84	7.8	33.58	8.1	24.8	2.51
I13	09 Feb 2016	20	15.55	84.84	7.7	33.58	8.1	24.8	2.57
I13	09 Feb 2016	21	15.55	84.94	7.7	33.58	8.1	24.8	2.62
I13	09 Feb 2016	22	15.54	85.02	7.8	33.58	8.1	24.8	2.67
I13	09 Feb 2016	23	15.54	85.12	7.7	33.58	8.1	24.8	2.65
I13	09 Feb 2016	24	15.54	85.28	7.6	33.58	8.1	24.8	2.33
I13	09 Feb 2016	25	15.53	85.64	7.5	33.58	8.1	24.8	1.88
I13	09 Feb 2016	26	15.47	86.94	7.4	33.57	8.1	24.8	1.69
I13	09 Feb 2016	27	15.45	87.49	7.4	33.57	8.1	24.8	1.59
I13	09 Feb 2016	28	15.42	87.36	7.3	33.58	8.1	24.8	1.45
I13	09 Feb 2016	29	15.38	87.33	7.3	33.57	8.1	24.8	1.31
I13	09 Feb 2016	30	15.30	87.37	7.2	33.57	8.1	24.8	1.27
I13	09 Feb 2016	31	15.25	87.29	7.1	33.57	8.1	24.8	1.27
I13	09 Feb 2016	32	15.20	86.65	7.0	33.58	8.1	24.8	1.26
I13	09 Feb 2016	33	15.15	86.31	7.0	33.57	8.1	24.8	1.24
I13	09 Feb 2016	34	15.06	86.21	6.9	33.57	8.1	24.9	1.16
I13	09 Feb 2016	35	14.96	85.92	6.8	33.56	8.1	24.9	1.09
I13	09 Feb 2016	36	14.87	85.25	6.8	33.56	8.1	24.9	1.06
I13	09 Feb 2016	37	14.86	84.91	6.7	33.55	8.1	24.9	1.05
I13	09 Feb 2016	38	14.86	84.93	6.8	33.55	8.1	24.9	1.06
I14	10 Feb 2016	1	15.14	81.61	7.6	33.55	8.0	24.8	0.84
I14	10 Feb 2016	2	15.10	81.80	7.6	33.55	8.0	24.8	0.96
I14	10 Feb 2016	3	15.06	82.20	7.7	33.57	8.0	24.9	1.14
I14	10 Feb 2016	4	15.07	82.26	7.7	33.58	8.0	24.9	1.29
I14	10 Feb 2016	5	15.08	82.26	7.8	33.58	8.0	24.9	1.47
I14	10 Feb 2016	6	15.08	82.40	7.7	33.59	8.0	24.9	1.43
I14	10 Feb 2016	7	15.08	82.68	7.7	33.59	8.0	24.9	1.92
I14	10 Feb 2016	8	15.08	82.71	7.7	33.59	8.0	24.9	1.99
I14	10 Feb 2016	9	15.07	82.85	7.7	33.59	8.0	24.9	2.16
I14	10 Feb 2016	10	15.07	82.80	7.7	33.59	8.0	24.9	1.87
I14	10 Feb 2016	11	15.06	83.01	7.7	33.59	8.0	24.9	1.76
I14	10 Feb 2016	12	15.06	83.00	7.6	33.59	8.0	24.9	1.66
I14	10 Feb 2016	13	15.05	83.17	7.6	33.59	8.0	24.9	1.63
I14	10 Feb 2016	14	15.00	83.25	7.5	33.59	8.0	24.9	1.74
I14	10 Feb 2016	15	14.96	82.39	7.5	33.58	8.0	24.9	1.70
I14	10 Feb 2016	16	14.90	81.86	7.5	33.58	8.0	24.9	1.70
I14	10 Feb 2016	17	14.87	81.12	7.4	33.58	8.0	24.9	1.70
I14	10 Feb 2016	18	14.82	79.38	7.4	33.59	8.0	24.9	1.84
I14	10 Feb 2016	19	14.81	78.04	7.4	33.59	7.9	24.9	1.99
I14	10 Feb 2016	20	14.79	76.16	7.4	33.59	7.9	24.9	2.04
I14	10 Feb 2016	21	14.78	74.01	7.3	33.59	7.9	24.9	2.10
I14	10 Feb 2016	22	14.78	73.29	7.4	33.59	7.9	24.9	2.13
I14	10 Feb 2016	23	14.78	73.09	7.4	33.59	7.9	24.9	1.90
I14	10 Feb 2016	24	14.78	72.70	7.4	33.59	7.9	24.9	1.92
I14	10 Feb 2016	25	14.78	71.68	7.3	33.59	7.9	24.9	2.05
I14	10 Feb 2016	26	14.77	70.29	7.3	33.59	7.9	24.9	2.16
I14	10 Feb 2016	27	14.77	69.09	7.3	33.59	7.9	24.9	2.07
I14	10 Feb 2016	28	14.77	67.96	7.3	33.59	7.9	24.9	2.04
I15	10 Feb 2016	1	15.07	81.38	7.7	33.55	8.0	24.8	0.90
I15	10 Feb 2016	2	15.07	81.23	7.7	33.55	8.0	24.8	0.95

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I15	10 Feb 2016	3	15.09	81.58	7.7	33.57	8.0	24.9	1.06
I15	10 Feb 2016	4	15.10	82.54	7.7	33.59	8.0	24.9	1.25
I15	10 Feb 2016	5	15.09	83.58	7.7	33.59	8.0	24.9	1.30
I15	10 Feb 2016	6	15.08	83.52	7.7	33.59	8.0	24.9	1.44
I15	10 Feb 2016	7	15.08	83.33	7.7	33.59	8.0	24.9	1.42
I15	10 Feb 2016	8	15.08	83.88	7.6	33.59	8.0	24.9	1.42
I15	10 Feb 2016	9	15.07	83.26	7.7	33.59	8.0	24.9	1.43
I15	10 Feb 2016	10	15.07	83.55	7.7	33.59	8.0	24.9	1.62
I15	10 Feb 2016	11	15.06	83.53	7.7	33.59	8.0	24.9	1.70
I15	10 Feb 2016	12	15.06	83.25	7.7	33.59	8.0	24.9	1.72
I15	10 Feb 2016	13	15.05	82.95	7.7	33.59	8.0	24.9	1.66
I15	10 Feb 2016	14	15.05	83.27	7.7	33.59	8.0	24.9	1.73
I15	10 Feb 2016	15	15.05	83.20	7.6	33.59	8.0	24.9	1.84
I15	10 Feb 2016	16	15.04	83.54	7.6	33.59	8.0	24.9	1.68
I15	10 Feb 2016	17	15.03	83.82	7.7	33.59	8.0	24.9	1.67
I15	10 Feb 2016	18	15.03	83.69	7.7	33.59	8.0	24.9	1.64
I15	10 Feb 2016	19	15.02	83.96	7.7	33.59	8.0	24.9	1.53
I15	10 Feb 2016	20	15.02	84.04	7.6	33.59	8.0	24.9	1.51
I15	10 Feb 2016	21	15.02	83.93	7.6	33.59	8.0	24.9	1.54
I15	10 Feb 2016	22	14.99	84.37	7.6	33.59	8.0	24.9	1.52
I15	10 Feb 2016	23	14.95	84.55	7.6	33.58	8.0	24.9	1.60
I15	10 Feb 2016	24	14.85	84.02	7.4	33.58	8.0	24.9	1.66
I15	10 Feb 2016	25	14.81	82.75	7.4	33.58	8.0	24.9	1.77
I15	10 Feb 2016	26	14.78	81.56	7.3	33.58	8.0	24.9	1.85
I15	10 Feb 2016	27	14.77	79.60	7.3	33.58	7.9	24.9	1.86
I15	10 Feb 2016	28	14.75	77.35	7.3	33.58	7.9	24.9	1.67
I15	10 Feb 2016	29	14.75	76.20	7.2	33.58	7.9	24.9	1.72
I15	10 Feb 2016	30	14.74	73.85	7.3	33.58	7.9	24.9	1.76
I15	10 Feb 2016	31	14.74	73.63	7.3	33.58	7.9	24.9	1.91
I16	10 Feb 2016	1	15.04	81.43	7.6	33.54	8.0	24.8	1.06
I16	10 Feb 2016	2	15.06	81.77	7.7	33.54	8.0	24.8	1.08
I16	10 Feb 2016	3	15.11	82.05	7.6	33.56	8.0	24.8	1.15
I16	10 Feb 2016	4	15.16	83.37	7.7	33.59	8.0	24.8	1.23
I16	10 Feb 2016	5	15.11	83.82	7.7	33.59	8.0	24.9	1.33
I16	10 Feb 2016	6	15.10	83.87	7.6	33.59	8.0	24.9	1.30
I16	10 Feb 2016	7	15.06	83.83	7.7	33.59	8.0	24.9	1.33
I16	10 Feb 2016	8	15.06	83.96	7.6	33.59	8.0	24.9	1.45
I16	10 Feb 2016	9	15.04	83.56	7.6	33.59	8.0	24.9	1.40
I16	10 Feb 2016	10	15.03	83.40	7.7	33.59	8.0	24.9	1.44
I16	10 Feb 2016	11	15.02	83.70	7.6	33.59	8.0	24.9	1.54
I16	10 Feb 2016	12	15.01	83.63	7.6	33.59	8.0	24.9	1.51
I16	10 Feb 2016	13	15.01	83.54	7.6	33.59	8.0	24.9	1.46
I16	10 Feb 2016	14	15.00	83.87	7.6	33.59	8.0	24.9	1.51
I16	10 Feb 2016	15	15.00	84.05	7.6	33.59	8.0	24.9	1.52
I16	10 Feb 2016	16	14.99	84.01	7.6	33.59	8.0	24.9	1.59
I16	10 Feb 2016	17	14.96	84.17	7.5	33.58	8.0	24.9	1.75
I16	10 Feb 2016	18	14.87	83.39	7.4	33.58	8.0	24.9	1.81
I16	10 Feb 2016	19	14.82	80.76	7.3	33.58	8.0	24.9	1.78
I16	10 Feb 2016	20	14.80	78.07	7.3	33.58	7.9	24.9	2.03
I16	10 Feb 2016	21	14.79	76.45	7.3	33.58	7.9	24.9	2.08
I16	10 Feb 2016	22	14.78	73.87	7.3	33.59	7.9	24.9	2.30
I16	10 Feb 2016	23	14.77	69.91	7.3	33.59	7.9	24.9	2.30
I16	10 Feb 2016	24	14.77	67.62	7.3	33.59	7.9	24.9	2.22
I16	10 Feb 2016	25	14.77	68.83	7.3	33.59	7.9	24.9	2.16

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I16	10 Feb 2016	26	14.77	67.36	7.2	33.59	7.9	24.9	2.16
I16	10 Feb 2016	27	14.77	66.09	7.3	33.59	7.9	24.9	2.27
I16	10 Feb 2016	28	14.77	67.55	7.2	33.59	7.9	24.9	2.19
I17	10 Feb 2016	1	15.12	83.87	7.8	33.59	8.0	24.9	1.03
I17	10 Feb 2016	2	15.09	83.66	7.7	33.59	8.0	24.9	1.11
I17	10 Feb 2016	3	15.06	83.51	7.7	33.59	8.0	24.9	1.18
I17	10 Feb 2016	4	15.05	83.85	7.7	33.59	8.0	24.9	1.17
I17	10 Feb 2016	5	15.04	83.68	7.7	33.59	8.0	24.9	1.20
I17	10 Feb 2016	6	15.04	83.60	7.7	33.59	8.0	24.9	1.29
I17	10 Feb 2016	7	15.03	83.69	7.7	33.59	8.0	24.9	1.41
I17	10 Feb 2016	8	15.02	83.53	7.7	33.59	8.0	24.9	1.39
I17	10 Feb 2016	9	15.02	83.53	7.7	33.59	8.0	24.9	1.40
I17	10 Feb 2016	10	15.01	83.34	7.7	33.59	8.0	24.9	1.39
I17	10 Feb 2016	11	15.01	83.51	7.7	33.59	8.0	24.9	1.59
I17	10 Feb 2016	12	15.00	83.46	7.6	33.59	8.0	24.9	1.57
I17	10 Feb 2016	13	14.97	83.32	7.6	33.59	8.0	24.9	1.59
I17	10 Feb 2016	14	14.95	83.18	7.6	33.59	8.0	24.9	1.63
I17	10 Feb 2016	15	14.92	82.95	7.5	33.59	8.0	24.9	1.95
I17	10 Feb 2016	16	14.85	81.46	7.5	33.59	8.0	24.9	2.01
I17	10 Feb 2016	17	14.84	78.70	7.4	33.59	8.0	24.9	1.98
I17	10 Feb 2016	18	14.81	77.27	7.4	33.59	8.0	24.9	2.00
I17	10 Feb 2016	19	14.81	77.18	7.4	33.59	7.9	24.9	1.95
I17	10 Feb 2016	20	14.81	76.83	7.4	33.59	7.9	24.9	1.87
I17	10 Feb 2016	21	14.80	75.53	7.4	33.59	7.9	24.9	2.13
I17	10 Feb 2016	22	14.80	74.92	7.4	33.59	7.9	24.9	2.09
I17	10 Feb 2016	23	14.79	72.57	7.3	33.59	7.9	24.9	2.05
I17	10 Feb 2016	24	14.79	71.74	7.4	33.59	7.9	24.9	1.99
I17	10 Feb 2016	25	14.79	72.42	7.4	33.59	7.9	24.9	1.97
I18	10 Feb 2016	1	15.06	82.27	7.8	33.59	8.0	24.9	0.99
I18	10 Feb 2016	2	14.99	82.20	7.8	33.59	8.0	24.9	0.99
I18	10 Feb 2016	3	14.97	82.26	7.7	33.59	8.0	24.9	1.12
I18	10 Feb 2016	4	14.96	82.26	7.7	33.59	8.0	24.9	1.21
I18	10 Feb 2016	5	14.96	82.18	7.7	33.59	8.0	24.9	1.39
I18	10 Feb 2016	6	14.95	82.03	7.7	33.59	8.0	24.9	1.52
I18	10 Feb 2016	7	14.94	81.70	7.7	33.59	8.0	24.9	1.61
I18	10 Feb 2016	8	14.93	81.63	7.6	33.59	8.0	24.9	1.67
I18	10 Feb 2016	9	14.93	81.53	7.7	33.59	8.0	24.9	1.78
I18	10 Feb 2016	10	14.93	81.36	7.6	33.59	8.0	24.9	1.83
I18	10 Feb 2016	11	14.93	81.11	7.6	33.59	8.0	24.9	1.93
I18	10 Feb 2016	12	14.91	80.71	7.5	33.59	8.0	24.9	1.88
I18	10 Feb 2016	13	14.89	76.97	7.5	33.59	8.0	24.9	1.85
I18	10 Feb 2016	14	14.88	74.52	7.5	33.59	7.9	24.9	1.84
I18	10 Feb 2016	15	14.87	73.67	7.5	33.59	7.9	24.9	1.94
I18	10 Feb 2016	16	14.87	73.10	7.5	33.59	7.9	24.9	2.13
I18	10 Feb 2016	17	14.87	71.80	7.5	33.59	7.9	24.9	2.18
I18	10 Feb 2016	18	14.87	70.90	7.5	33.59	7.9	24.9	2.06
I18	10 Feb 2016	19	14.87	69.19	7.5	33.59	7.9	24.9	2.00
I20	09 Feb 2016	1	15.67	84.52	7.8	33.60	8.1	24.7	1.27
I20	09 Feb 2016	2	15.67	84.16	7.8	33.60	8.1	24.7	1.34
I20	09 Feb 2016	3	15.66	84.51	7.8	33.60	8.1	24.7	1.46
I20	09 Feb 2016	4	15.66	84.50	7.8	33.60	8.1	24.7	1.58
I20	09 Feb 2016	5	15.66	84.47	7.8	33.60	8.1	24.7	1.72

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I20	09 Feb 2016	6	15.66	84.48	7.8	33.60	8.1	24.7	1.87
I20	09 Feb 2016	7	15.66	84.48	7.8	33.60	8.1	24.7	2.00
I20	09 Feb 2016	8	15.65	84.48	7.8	33.60	8.1	24.7	2.14
I20	09 Feb 2016	9	15.65	84.50	7.8	33.60	8.1	24.7	2.23
I20	09 Feb 2016	10	15.65	84.51	7.7	33.60	8.1	24.7	2.31
I20	09 Feb 2016	11	15.65	84.52	7.7	33.60	8.1	24.7	2.38
I20	09 Feb 2016	12	15.64	84.59	7.7	33.60	8.1	24.7	2.41
I20	09 Feb 2016	13	15.63	84.74	7.7	33.60	8.1	24.8	2.44
I20	09 Feb 2016	14	15.62	84.86	7.7	33.60	8.1	24.8	2.45
I20	09 Feb 2016	15	15.62	85.01	7.7	33.60	8.1	24.8	2.45
I20	09 Feb 2016	16	15.61	85.05	7.7	33.60	8.1	24.8	2.46
I20	09 Feb 2016	17	15.60	85.23	7.7	33.60	8.1	24.8	2.44
I20	09 Feb 2016	18	15.58	85.49	7.7	33.60	8.1	24.8	2.42
I20	09 Feb 2016	19	15.57	85.62	7.6	33.60	8.1	24.8	2.41
I20	09 Feb 2016	20	15.57	85.68	7.6	33.60	8.1	24.8	2.42
I20	09 Feb 2016	21	15.56	85.70	7.6	33.60	8.1	24.8	2.39
I20	09 Feb 2016	22	15.55	85.77	7.6	33.60	8.1	24.8	2.33
I20	09 Feb 2016	23	15.54	85.87	7.5	33.60	8.1	24.8	2.20
I20	09 Feb 2016	24	15.53	86.06	7.5	33.60	8.1	24.8	2.14
I20	09 Feb 2016	25	15.52	86.17	7.5	33.59	8.1	24.8	2.00
I20	09 Feb 2016	26	15.51	86.47	7.5	33.59	8.1	24.8	1.79
I20	09 Feb 2016	27	15.50	86.72	7.4	33.59	8.1	24.8	1.62
I20	09 Feb 2016	28	15.48	86.84	7.4	33.59	8.1	24.8	1.46
I20	09 Feb 2016	29	15.45	86.96	7.4	33.59	8.1	24.8	1.38
I20	09 Feb 2016	30	15.45	86.99	7.3	33.59	8.1	24.8	1.31
I20	09 Feb 2016	31	15.42	87.12	7.3	33.59	8.1	24.8	1.23
I20	09 Feb 2016	32	15.39	87.34	7.3	33.58	8.1	24.8	1.19
I20	09 Feb 2016	33	15.38	87.32	7.3	33.58	8.1	24.8	1.15
I20	09 Feb 2016	34	15.37	87.19	7.2	33.59	8.1	24.8	1.10
I20	09 Feb 2016	35	15.35	87.11	7.3	33.59	8.1	24.8	1.08
I20	09 Feb 2016	36	15.35	87.11	7.3	33.59	8.1	24.8	1.02
I20	09 Feb 2016	37	15.31	87.17	7.2	33.58	8.1	24.8	0.95
I20	09 Feb 2016	38	15.24	87.56	7.0	33.57	8.1	24.8	0.82
I20	09 Feb 2016	39	15.05	87.59	6.7	33.55	8.1	24.8	0.71
I20	09 Feb 2016	40	14.82	87.45	6.7	33.55	8.1	24.9	0.71
I20	09 Feb 2016	41	14.80	87.46	6.7	33.54	8.1	24.9	0.72
I20	09 Feb 2016	42	14.79	87.20	6.7	33.55	8.1	24.9	0.76
I20	09 Feb 2016	43	14.77	86.85	6.7	33.55	8.1	24.9	0.78
I20	09 Feb 2016	44	14.74	86.36	6.7	33.55	8.1	24.9	0.81
I20	09 Feb 2016	45	14.72	85.90	6.7	33.55	8.1	24.9	0.82
I20	09 Feb 2016	46	14.71	85.57	6.7	33.56	8.1	24.9	0.84
I20	09 Feb 2016	47	14.71	85.27	6.7	33.56	8.1	24.9	0.83
I20	09 Feb 2016	48	14.70	85.18	6.7	33.56	8.1	24.9	0.84
I20	09 Feb 2016	49	14.70	85.08	6.7	33.56	8.1	24.9	0.83
I20	09 Feb 2016	50	14.69	84.92	6.6	33.56	8.1	24.9	0.83
I20	09 Feb 2016	51	14.68	84.76	6.6	33.56	8.1	24.9	0.84
I20	09 Feb 2016	52	14.68	84.77	6.6	33.56	8.1	24.9	0.83
I20	09 Feb 2016	53	14.68	84.74	6.6	33.56	8.1	24.9	0.82
I20	09 Feb 2016	54	14.68	84.59	6.6	33.56	8.1	24.9	0.82
I20	09 Feb 2016	55	14.67	84.50	6.6	33.56	8.1	24.9	0.81
I21	09 Feb 2016	1	15.99	83.65	7.9	33.60	8.2	24.7	0.87
I21	09 Feb 2016	2	16.02	83.70	7.8	33.60	8.2	24.7	0.92
I21	09 Feb 2016	3	15.86	83.66	7.8	33.60	8.2	24.7	1.04
I21	09 Feb 2016	4	15.72	83.25	7.9	33.60	8.2	24.7	1.16

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I21	09 Feb 2016	5	15.70	83.21	7.9	33.60	8.2	24.7	1.27
I21	09 Feb 2016	6	15.68	83.24	7.8	33.59	8.2	24.7	1.41
I21	09 Feb 2016	7	15.67	83.31	7.9	33.59	8.2	24.7	1.59
I21	09 Feb 2016	8	15.66	83.26	7.9	33.60	8.2	24.7	1.78
I21	09 Feb 2016	9	15.66	83.23	7.8	33.60	8.2	24.7	1.96
I21	09 Feb 2016	10	15.65	83.08	7.8	33.60	8.2	24.7	2.13
I21	09 Feb 2016	11	15.65	83.16	7.8	33.60	8.2	24.7	2.32
I21	09 Feb 2016	12	15.64	83.28	7.8	33.60	8.2	24.8	2.52
I21	09 Feb 2016	13	15.63	83.34	7.8	33.60	8.2	24.8	2.69
I21	09 Feb 2016	14	15.62	83.46	7.8	33.60	8.2	24.8	2.82
I21	09 Feb 2016	15	15.61	83.53	7.8	33.60	8.2	24.8	2.85
I21	09 Feb 2016	16	15.61	83.53	7.8	33.60	8.2	24.8	2.97
I21	09 Feb 2016	17	15.60	83.67	7.8	33.60	8.2	24.8	2.98
I21	09 Feb 2016	18	15.60	83.77	7.8	33.60	8.1	24.8	3.07
I21	09 Feb 2016	19	15.59	83.96	7.7	33.60	8.1	24.8	3.14
I21	09 Feb 2016	20	15.59	84.16	7.7	33.60	8.1	24.8	3.12
I21	09 Feb 2016	21	15.58	84.32	7.7	33.60	8.1	24.8	3.11
I21	09 Feb 2016	22	15.58	84.48	7.7	33.60	8.1	24.8	3.11
I21	09 Feb 2016	23	15.57	84.60	7.8	33.60	8.1	24.8	3.08
I21	09 Feb 2016	24	15.57	84.78	7.8	33.60	8.1	24.8	3.00
I21	09 Feb 2016	25	15.56	84.97	7.7	33.60	8.1	24.8	2.78
I21	09 Feb 2016	26	15.55	85.11	7.5	33.60	8.1	24.8	2.46
I21	09 Feb 2016	27	15.52	85.58	7.4	33.59	8.1	24.8	2.14
I21	09 Feb 2016	28	15.49	86.02	7.4	33.59	8.1	24.8	1.94
I21	09 Feb 2016	29	15.46	86.35	7.4	33.59	8.1	24.8	1.80
I21	09 Feb 2016	30	15.44	86.49	7.3	33.59	8.1	24.8	1.55
I21	09 Feb 2016	31	15.41	86.73	7.3	33.59	8.1	24.8	1.38
I21	09 Feb 2016	32	15.33	86.93	7.2	33.58	8.1	24.8	1.27
I21	09 Feb 2016	33	15.27	86.86	7.1	33.58	8.1	24.8	1.19
I21	09 Feb 2016	34	15.20	86.64	7.1	33.58	8.1	24.8	1.11
I21	09 Feb 2016	35	15.14	86.45	6.9	33.57	8.1	24.8	0.98
I21	09 Feb 2016	36	15.00	86.18	6.8	33.56	8.1	24.9	0.92
I21	09 Feb 2016	37	14.89	85.26	6.8	33.56	8.1	24.9	0.89
I21	09 Feb 2016	38	14.88	85.10	6.8	33.56	8.1	24.9	0.88
I21	09 Feb 2016	39	14.88	85.05	6.8	33.56	8.1	24.9	0.87
I21	09 Feb 2016	40	14.88	84.96	6.8	33.56	8.1	24.9	0.88
I21	09 Feb 2016	41	14.88	85.03	6.8	33.56	8.1	24.9	0.88
I22	10 Feb 2016	1	15.12	79.50	7.9	33.54	8.0	24.8	1.18
I22	10 Feb 2016	2	15.00	79.27	7.9	33.54	8.0	24.8	1.50
I22	10 Feb 2016	3	14.99	78.79	7.9	33.55	8.0	24.9	1.81
I22	10 Feb 2016	4	15.00	79.43	7.9	33.56	8.0	24.9	2.22
I22	10 Feb 2016	5	14.99	80.50	7.9	33.58	8.0	24.9	3.29
I22	10 Feb 2016	6	14.98	80.43	7.8	33.57	8.0	24.9	3.68
I22	10 Feb 2016	7	14.97	80.30	7.8	33.57	8.0	24.9	3.62
I22	10 Feb 2016	8	14.96	80.41	7.8	33.58	8.0	24.9	3.39
I22	10 Feb 2016	9	14.96	80.17	7.8	33.58	8.0	24.9	4.05
I22	10 Feb 2016	10	14.95	80.57	7.7	33.58	8.0	24.9	3.83
I22	10 Feb 2016	11	14.95	80.45	7.7	33.58	8.0	24.9	3.86
I22	10 Feb 2016	12	14.94	80.68	7.7	33.58	8.0	24.9	3.75
I22	10 Feb 2016	13	14.93	80.29	7.7	33.58	8.0	24.9	4.09
I22	10 Feb 2016	14	14.92	80.12	7.6	33.58	8.0	24.9	3.49
I22	10 Feb 2016	15	14.91	80.30	7.4	33.58	8.0	24.9	3.02
I22	10 Feb 2016	16	14.87	80.52	7.5	33.58	8.0	24.9	2.30
I22	10 Feb 2016	17	14.85	80.45	7.4	33.58	8.0	24.9	2.21

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I22	10 Feb 2016	18	14.80	79.03	7.3	33.59	8.0	24.9	1.98
I22	10 Feb 2016	19	14.78	77.67	7.2	33.59	7.9	24.9	2.29
I22	10 Feb 2016	20	14.77	75.72	7.3	33.59	7.9	24.9	2.02
I22	10 Feb 2016	21	14.77	74.96	7.3	33.59	7.9	24.9	2.02
I22	10 Feb 2016	22	14.77	73.63	7.3	33.59	7.9	24.9	2.16
I22	10 Feb 2016	23	14.76	71.93	7.3	33.59	7.9	24.9	2.12
I22	10 Feb 2016	24	14.76	71.99	7.3	33.59	7.9	24.9	1.97
I22	10 Feb 2016	25	14.76	70.55	7.3	33.59	7.9	24.9	2.12
I22	10 Feb 2016	26	14.76	69.72	7.3	33.59	7.9	24.9	2.11
I22	10 Feb 2016	27	14.76	68.32	7.3	33.59	7.9	24.9	2.07
I22	10 Feb 2016	28	14.76	67.84	7.3	33.59	7.9	24.9	2.21
I23	10 Feb 2016	1	15.13	80.00	7.7	33.60	8.0	24.9	0.69
I23	10 Feb 2016	2	15.07	80.02	7.7	33.60	8.0	24.9	0.80
I23	10 Feb 2016	3	15.02	79.98	7.7	33.60	8.0	24.9	0.92
I23	10 Feb 2016	4	15.00	79.85	7.7	33.60	8.0	24.9	1.12
I23	10 Feb 2016	5	14.98	80.03	7.7	33.60	8.0	24.9	1.35
I23	10 Feb 2016	6	14.97	79.91	7.7	33.60	8.0	24.9	1.35
I23	10 Feb 2016	7	14.96	79.86	7.7	33.59	8.0	24.9	1.40
I23	10 Feb 2016	8	14.95	79.81	7.6	33.59	8.0	24.9	1.44
I23	10 Feb 2016	9	14.95	79.99	7.7	33.59	8.0	24.9	1.78
I23	10 Feb 2016	10	14.95	80.18	7.6	33.59	8.0	24.9	1.95
I23	10 Feb 2016	11	14.94	79.73	7.5	33.59	8.0	24.9	2.10
I23	10 Feb 2016	12	14.93	79.96	7.6	33.59	8.0	24.9	1.99
I23	10 Feb 2016	13	14.91	79.44	7.5	33.59	8.0	24.9	2.02
I23	10 Feb 2016	14	14.89	77.93	7.4	33.59	8.0	24.9	2.05
I23	10 Feb 2016	15	14.85	75.48	7.5	33.59	8.0	24.9	2.07
I23	10 Feb 2016	16	14.83	75.43	7.4	33.59	8.0	24.9	2.30
I23	10 Feb 2016	17	14.78	68.67	7.3	33.58	7.9	24.9	2.19
I23	10 Feb 2016	18	14.78	64.71	7.3	33.58	7.9	24.9	2.25
I23	10 Feb 2016	19	14.78	66.27	7.4	33.58	7.9	24.9	2.39
I23	10 Feb 2016	20	14.79	67.59	7.4	33.59	7.9	24.9	2.46
I23	10 Feb 2016	21	14.79	68.25	7.4	33.59	7.9	24.9	2.44
I27	10 Feb 2016	1	15.17	78.08	7.9	33.57	8.0	24.8	2.16
I27	10 Feb 2016	2	15.17	78.16	7.8	33.57	8.0	24.8	2.66
I27	10 Feb 2016	3	15.17	78.17	7.8	33.57	8.0	24.8	2.96
I27	10 Feb 2016	4	15.17	78.16	7.8	33.57	8.0	24.8	2.87
I27	10 Feb 2016	5	15.17	78.09	7.7	33.57	8.0	24.8	2.90
I27	10 Feb 2016	6	15.16	78.15	7.8	33.57	8.0	24.8	2.93
I27	10 Feb 2016	7	15.16	78.12	7.8	33.57	8.0	24.8	2.90
I27	10 Feb 2016	8	15.16	77.85	7.7	33.57	8.0	24.8	3.13
I27	10 Feb 2016	9	15.14	78.01	7.7	33.57	8.0	24.8	2.92
I27	10 Feb 2016	10	15.12	77.69	7.7	33.57	8.0	24.8	3.04
I27	10 Feb 2016	11	15.09	77.65	7.6	33.57	8.0	24.9	3.23
I27	10 Feb 2016	12	15.03	77.32	7.6	33.57	8.0	24.9	3.34
I27	10 Feb 2016	13	14.99	77.41	7.5	33.57	7.9	24.9	3.37
I27	10 Feb 2016	14	14.94	77.28	7.5	33.57	7.9	24.9	3.32
I27	10 Feb 2016	15	14.93	77.10	7.4	33.57	7.9	24.9	3.30
I27	10 Feb 2016	16	14.91	77.24	7.4	33.57	7.9	24.9	3.09
I27	10 Feb 2016	17	14.89	77.15	7.3	33.57	7.9	24.9	3.06
I27	10 Feb 2016	18	14.88	77.52	7.3	33.57	7.9	24.9	3.06
I27	10 Feb 2016	19	14.87	77.71	7.3	33.57	7.9	24.9	2.96
I27	10 Feb 2016	20	14.81	78.51	7.2	33.57	7.9	24.9	2.95
I27	10 Feb 2016	21	14.77	77.71	7.1	33.57	7.9	24.9	3.06

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I27	10 Feb 2016	22	14.73	76.53	7.1	33.56	7.9	24.9	2.83
I27	10 Feb 2016	23	14.67	75.55	7.1	33.56	7.9	24.9	2.71
I27	10 Feb 2016	24	14.65	74.40	7.0	33.56	7.9	24.9	2.60
I27	10 Feb 2016	25	14.56	73.14	6.9	33.56	7.9	25.0	2.85
I27	10 Feb 2016	26	14.54	71.98	6.9	33.56	7.9	25.0	2.42
I27	10 Feb 2016	27	14.52	71.00	6.9	33.56	7.9	25.0	2.52
I27	10 Feb 2016	28	14.52	70.33	6.9	33.56	7.9	25.0	2.62
I28	11 Feb 2016	1	15.35	84.51	7.9	33.58	8.2	24.8	0.92
I28	11 Feb 2016	2	15.34	84.56	7.9	33.58	8.2	24.8	1.08
I28	11 Feb 2016	3	15.24	84.38	7.8	33.58	8.2	24.8	1.20
I28	11 Feb 2016	4	15.13	84.16	7.5	33.57	8.2	24.8	1.33
I28	11 Feb 2016	5	14.97	84.11	7.4	33.56	8.2	24.9	1.35
I28	11 Feb 2016	6	14.92	84.17	7.4	33.55	8.1	24.9	1.36
I28	11 Feb 2016	7	14.87	84.26	7.3	33.55	8.1	24.9	1.48
I28	11 Feb 2016	8	14.83	84.39	7.2	33.55	8.1	24.9	1.43
I28	11 Feb 2016	9	14.81	84.44	7.2	33.55	8.1	24.9	1.57
I28	11 Feb 2016	10	14.80	84.33	7.2	33.55	8.1	24.9	1.58
I28	11 Feb 2016	11	14.79	84.48	7.2	33.55	8.1	24.9	1.71
I28	11 Feb 2016	12	14.77	84.39	7.2	33.54	8.1	24.9	1.73
I28	11 Feb 2016	13	14.78	84.37	7.1	33.55	8.1	24.9	1.83
I28	11 Feb 2016	14	14.77	84.41	7.1	33.55	8.1	24.9	1.86
I28	11 Feb 2016	15	14.76	84.29	7.1	33.55	8.1	24.9	1.69
I28	11 Feb 2016	16	14.75	84.23	7.1	33.55	8.1	24.9	1.70
I28	11 Feb 2016	17	14.74	84.07	7.1	33.54	8.1	24.9	1.66
I28	11 Feb 2016	18	14.73	83.81	7.1	33.54	8.1	24.9	1.69
I28	11 Feb 2016	19	14.73	83.78	7.1	33.54	8.1	24.9	1.71
I28	11 Feb 2016	20	14.73	83.65	7.1	33.54	8.1	24.9	1.68
I28	11 Feb 2016	21	14.72	83.53	7.1	33.54	8.1	24.9	1.69
I28	11 Feb 2016	22	14.73	83.64	7.1	33.54	8.1	24.9	1.66
I28	11 Feb 2016	23	14.72	83.56	7.1	33.54	8.1	24.9	1.66
I28	11 Feb 2016	24	14.72	83.71	7.1	33.54	8.1	24.9	1.68
I28	11 Feb 2016	25	14.72	83.83	7.1	33.54	8.1	24.9	1.69
I28	11 Feb 2016	26	14.72	83.86	7.1	33.54	8.1	24.9	1.68
I28	11 Feb 2016	27	14.72	83.66	7.1	33.54	8.1	24.9	1.63
I28	11 Feb 2016	28	14.72	83.70	7.1	33.54	8.1	24.9	1.63
I28	11 Feb 2016	29	14.72	83.55	7.1	33.54	8.1	24.9	1.64
I28	11 Feb 2016	30	14.72	83.60	7.1	33.54	8.1	24.9	1.64
I28	11 Feb 2016	31	14.72	83.61	7.1	33.54	8.1	24.9	1.68
I28	11 Feb 2016	32	14.72	83.67	7.0	33.54	8.1	24.9	1.73
I28	11 Feb 2016	33	14.72	83.47	7.0	33.54	8.1	24.9	1.65
I28	11 Feb 2016	34	14.72	83.47	7.1	33.54	8.1	24.9	1.65
I28	11 Feb 2016	35	14.71	83.39	7.1	33.54	8.1	24.9	1.60
I28	11 Feb 2016	36	14.71	83.36	7.1	33.54	8.1	24.9	1.60
I28	11 Feb 2016	37	14.72	83.50	7.1	33.54	8.1	24.9	1.60
I28	11 Feb 2016	38	14.71	83.83	7.1	33.54	8.1	24.9	1.60
I28	11 Feb 2016	39	14.70	84.16	7.1	33.54	8.1	24.9	1.63
I28	11 Feb 2016	40	14.70	84.15	7.0	33.54	8.1	24.9	1.62
I28	11 Feb 2016	41	14.70	84.01	7.1	33.54	8.1	24.9	1.59
I28	11 Feb 2016	42	14.70	84.00	7.1	33.54	8.1	24.9	1.58
I28	11 Feb 2016	43	14.70	84.07	7.1	33.54	8.1	24.9	1.60
I28	11 Feb 2016	44	14.70	84.19	7.1	33.54	8.1	24.9	1.61
I28	11 Feb 2016	45	14.70	84.15	7.1	33.54	8.1	24.9	1.62
I28	11 Feb 2016	46	14.70	84.21	7.1	33.54	8.1	24.9	1.57
I28	11 Feb 2016	47	14.70	84.14	7.0	33.54	8.1	24.9	1.59

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I28	11 Feb 2016	48	14.70	84.11	7.1	33.54	8.1	24.9	1.58
I28	11 Feb 2016	49	14.70	83.94	7.1	33.54	8.1	24.9	1.62
I28	11 Feb 2016	50	14.70	84.11	7.0	33.54	8.1	24.9	1.56
I28	11 Feb 2016	51	14.70	83.76	7.0	33.54	8.1	24.9	1.56
I28	11 Feb 2016	52	14.70	83.96	7.0	33.54	8.1	24.9	1.58
I28	11 Feb 2016	53	14.70	83.65	7.1	33.54	8.1	24.9	1.56
I28	11 Feb 2016	54	14.70	83.70	7.0	33.54	8.1	24.9	1.55
I28	11 Feb 2016	55	14.70	83.67	7.1	33.54	8.1	24.9	1.59
I29	11 Feb 2016	1	15.36	84.68	7.9	33.59	8.2	24.8	1.13
I29	11 Feb 2016	2	15.36	84.69	7.9	33.59	8.2	24.8	1.14
I29	11 Feb 2016	3	15.33	84.80	7.9	33.59	8.2	24.8	1.21
I29	11 Feb 2016	4	15.30	84.95	7.9	33.59	8.2	24.8	1.31
I29	11 Feb 2016	5	15.28	84.93	7.9	33.59	8.2	24.8	1.63
I29	11 Feb 2016	6	15.28	84.90	7.9	33.59	8.2	24.8	1.64
I29	11 Feb 2016	7	15.27	84.83	7.9	33.59	8.2	24.8	1.97
I29	11 Feb 2016	8	15.27	84.72	7.9	33.59	8.2	24.8	2.09
I29	11 Feb 2016	9	15.27	84.96	7.9	33.59	8.2	24.8	2.15
I29	11 Feb 2016	10	15.27	84.87	7.8	33.59	8.2	24.8	2.05
I29	11 Feb 2016	11	15.27	84.95	7.9	33.59	8.2	24.8	2.24
I29	11 Feb 2016	12	15.26	84.89	7.8	33.59	8.2	24.8	2.28
I29	11 Feb 2016	13	15.25	84.67	7.8	33.58	8.2	24.8	2.16
I29	11 Feb 2016	14	15.24	84.84	7.8	33.58	8.2	24.8	2.25
I29	11 Feb 2016	15	15.23	84.76	7.8	33.58	8.2	24.8	2.34
I29	11 Feb 2016	16	15.19	84.62	7.6	33.58	8.2	24.8	2.15
I29	11 Feb 2016	17	15.17	84.43	7.7	33.58	8.2	24.8	2.29
I29	11 Feb 2016	18	15.13	84.65	7.6	33.58	8.2	24.8	2.22
I29	11 Feb 2016	19	15.09	84.59	7.5	33.57	8.2	24.9	2.16
I29	11 Feb 2016	20	15.04	84.42	7.4	33.57	8.2	24.9	2.15
I29	11 Feb 2016	21	14.99	84.04	7.4	33.56	8.2	24.9	2.17
I29	11 Feb 2016	22	14.99	83.96	7.4	33.56	8.2	24.9	2.16
I29	11 Feb 2016	23	14.99	83.67	7.4	33.56	8.2	24.9	2.08
I29	11 Feb 2016	24	14.98	83.57	7.4	33.56	8.2	24.9	2.04
I29	11 Feb 2016	25	14.96	83.06	7.4	33.55	8.2	24.9	2.05
I29	11 Feb 2016	26	14.95	81.93	7.4	33.55	8.1	24.9	2.05
I29	11 Feb 2016	27	14.95	82.40	7.4	33.55	8.1	24.9	2.11
I29	11 Feb 2016	28	14.96	82.68	7.4	33.56	8.1	24.9	2.07
I29	11 Feb 2016	29	14.96	82.22	7.4	33.56	8.1	24.9	2.04
I29	11 Feb 2016	30	14.95	82.31	7.4	33.55	8.1	24.9	2.01
I29	11 Feb 2016	31	14.95	82.10	7.4	33.55	8.1	24.9	2.05
I29	11 Feb 2016	32	14.95	82.27	7.4	33.55	8.1	24.9	2.05
I29	11 Feb 2016	33	14.95	81.78	7.4	33.56	8.1	24.9	1.97
I29	11 Feb 2016	34	14.95	82.13	7.4	33.55	8.1	24.9	1.99
I29	11 Feb 2016	35	14.94	82.09	7.3	33.55	8.1	24.9	1.92
I29	11 Feb 2016	36	14.94	82.02	7.3	33.55	8.1	24.9	1.95
I29	11 Feb 2016	37	14.94	81.96	7.3	33.55	8.1	24.9	2.04
I29	11 Feb 2016	38	14.94	81.89	7.3	33.55	8.1	24.9	2.03
I30	11 Feb 2016	1	15.32	83.98	7.8	33.56	8.2	24.8	0.86
I30	11 Feb 2016	2	15.23	83.68	7.8	33.56	8.2	24.8	0.99
I30	11 Feb 2016	3	15.18	83.42	7.7	33.56	8.2	24.8	1.13
I30	11 Feb 2016	4	15.15	83.07	7.7	33.55	8.2	24.8	1.30
I30	11 Feb 2016	5	15.14	83.07	7.8	33.55	8.2	24.8	1.55
I30	11 Feb 2016	6	15.12	82.87	7.7	33.55	8.2	24.8	1.64
I30	11 Feb 2016	7	15.12	82.92	7.7	33.55	8.2	24.8	1.80

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I30	11 Feb 2016	8	15.10	82.73	7.7	33.56	8.2	24.8	2.04
I30	11 Feb 2016	9	15.08	82.62	7.6	33.56	8.2	24.8	2.25
I30	11 Feb 2016	10	15.07	82.35	7.6	33.56	8.2	24.8	2.37
I30	11 Feb 2016	11	15.06	81.72	7.6	33.56	8.2	24.9	2.50
I30	11 Feb 2016	12	15.06	81.09	7.6	33.56	8.2	24.9	2.53
I30	11 Feb 2016	13	15.06	80.42	7.6	33.56	8.2	24.9	2.47
I30	11 Feb 2016	14	15.06	80.37	7.6	33.56	8.2	24.9	2.56
I30	11 Feb 2016	15	15.06	79.90	7.6	33.57	8.2	24.9	2.59
I30	11 Feb 2016	16	15.06	79.78	7.6	33.57	8.2	24.9	2.44
I30	11 Feb 2016	17	15.06	79.50	7.6	33.57	8.2	24.9	2.39
I30	11 Feb 2016	18	15.06	79.24	7.6	33.57	8.2	24.9	2.41
I30	11 Feb 2016	19	15.06	79.21	7.6	33.57	8.2	24.9	2.44
I30	11 Feb 2016	20	15.06	77.90	7.6	33.57	8.2	24.9	2.49
I30	11 Feb 2016	21	15.06	78.18	7.5	33.57	8.2	24.9	2.42
I30	11 Feb 2016	22	15.06	78.31	7.6	33.57	8.2	24.9	2.43
I30	11 Feb 2016	23	15.06	77.92	7.6	33.57	8.2	24.9	2.29
I30	11 Feb 2016	24	15.06	77.27	7.6	33.57	8.2	24.9	2.26
I30	11 Feb 2016	25	15.06	76.97	7.6	33.57	8.2	24.9	2.26
I30	11 Feb 2016	26	15.06	76.80	7.6	33.58	8.2	24.9	2.21
I30	11 Feb 2016	27	15.06	75.87	7.6	33.58	8.2	24.9	2.32
I30	11 Feb 2016	28	15.06	76.08	7.6	33.58	8.2	24.9	2.33
I31	11 Feb 2016	1	15.35	82.09	8.1	33.57	8.2	24.8	1.32
I31	11 Feb 2016	2	15.32	82.28	8.1	33.56	8.2	24.8	1.58
I31	11 Feb 2016	3	15.30	82.26	8.1	33.56	8.2	24.8	1.54
I31	11 Feb 2016	4	15.33	82.14	8.1	33.56	8.2	24.8	1.66
I31	11 Feb 2016	5	15.31	82.26	8.1	33.56	8.2	24.8	1.85
I31	11 Feb 2016	6	15.27	82.67	8.0	33.56	8.2	24.8	2.15
I31	11 Feb 2016	7	15.26	82.59	8.1	33.56	8.2	24.8	2.33
I31	11 Feb 2016	8	15.26	82.63	8.0	33.56	8.2	24.8	2.50
I31	11 Feb 2016	9	15.25	82.47	8.1	33.56	8.2	24.8	2.83
I31	11 Feb 2016	10	15.25	82.51	8.1	33.56	8.2	24.8	2.88
I31	11 Feb 2016	11	15.25	82.48	8.0	33.56	8.2	24.8	2.92
I31	11 Feb 2016	12	15.23	82.31	8.0	33.56	8.2	24.8	2.78
I31	11 Feb 2016	13	15.22	82.23	7.8	33.56	8.2	24.8	2.75
I31	11 Feb 2016	14	15.21	81.81	7.9	33.57	8.2	24.8	2.67
I31	11 Feb 2016	15	15.20	81.77	7.8	33.57	8.2	24.8	2.66
I31	11 Feb 2016	16	15.19	81.19	7.8	33.57	8.2	24.8	2.67
I31	11 Feb 2016	17	15.19	80.90	7.8	33.57	8.2	24.8	2.46
I31	11 Feb 2016	18	15.18	80.59	7.8	33.57	8.2	24.8	2.45
I31	11 Feb 2016	19	15.18	80.17	7.7	33.57	8.2	24.8	2.44
I33	11 Feb 2016	1	15.24	85.82	7.9	33.57	8.2	24.8	0.97
I33	11 Feb 2016	2	15.24	85.82	7.9	33.57	8.2	24.8	1.06
I33	11 Feb 2016	3	15.23	85.83	7.8	33.57	8.2	24.8	1.19
I33	11 Feb 2016	4	15.22	85.76	7.9	33.57	8.2	24.8	1.31
I33	11 Feb 2016	5	15.22	85.81	7.8	33.57	8.2	24.8	1.42
I33	11 Feb 2016	6	15.22	85.89	7.8	33.57	8.2	24.8	1.57
I33	11 Feb 2016	7	15.22	85.88	7.8	33.57	8.2	24.8	1.61
I33	11 Feb 2016	8	15.21	85.87	7.8	33.58	8.2	24.8	1.81
I33	11 Feb 2016	9	15.20	85.97	7.8	33.58	8.2	24.8	1.80
I33	11 Feb 2016	10	15.18	85.69	7.7	33.58	8.2	24.8	1.85
I33	11 Feb 2016	11	15.17	85.64	7.7	33.58	8.2	24.8	1.91
I33	11 Feb 2016	12	15.15	85.30	7.7	33.57	8.2	24.8	2.01
I33	11 Feb 2016	13	15.13	85.07	7.6	33.57	8.2	24.8	2.09

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I33	11 Feb 2016	14	15.08	84.26	7.6	33.57	8.2	24.9	2.16
I33	11 Feb 2016	15	15.05	83.73	7.5	33.57	8.2	24.9	2.24
I33	11 Feb 2016	16	14.98	83.16	7.5	33.57	8.2	24.9	2.22
I33	11 Feb 2016	17	14.98	83.19	7.5	33.57	8.2	24.9	2.15
I33	11 Feb 2016	18	14.96	82.17	7.5	33.57	8.2	24.9	2.23
I33	11 Feb 2016	19	14.96	80.27	7.5	33.57	8.1	24.9	2.16
I33	11 Feb 2016	20	14.95	79.32	7.4	33.57	8.1	24.9	2.11
I33	11 Feb 2016	21	14.94	77.81	7.4	33.58	8.1	24.9	2.17
I33	11 Feb 2016	22	14.94	77.08	7.5	33.58	8.1	24.9	2.13
I33	11 Feb 2016	23	14.93	76.66	7.5	33.58	8.1	24.9	2.22
I33	11 Feb 2016	24	14.93	76.61	7.5	33.58	8.1	24.9	2.21
I33	11 Feb 2016	25	14.93	76.32	7.5	33.58	8.1	24.9	2.02
I33	11 Feb 2016	26	14.93	76.09	7.4	33.58	8.1	24.9	2.05
I33	11 Feb 2016	27	14.93	75.89	7.4	33.58	8.1	24.9	2.06
I33	11 Feb 2016	28	14.93	76.01	7.4	33.58	8.1	24.9	2.18
I33	11 Feb 2016	29	14.92	75.31	7.4	33.58	8.1	24.9	2.15
I33	11 Feb 2016	30	14.92	75.41	7.5	33.58	8.1	24.9	2.17
I34	11 Feb 2016	1	15.27	83.22	8.0	33.58	8.2	24.8	1.20
I34	11 Feb 2016	2	15.26	83.07	8.0	33.58	8.2	24.8	1.43
I34	11 Feb 2016	3	15.25	83.16	7.9	33.57	8.2	24.8	1.47
I34	11 Feb 2016	4	15.24	83.14	7.9	33.57	8.2	24.8	1.56
I34	11 Feb 2016	5	15.19	83.08	7.8	33.57	8.2	24.8	1.79
I34	11 Feb 2016	6	15.14	82.71	7.8	33.57	8.2	24.8	1.94
I34	11 Feb 2016	7	15.12	82.35	7.7	33.57	8.2	24.8	2.03
I34	11 Feb 2016	8	15.10	82.03	7.7	33.57	8.2	24.9	2.13
I34	11 Feb 2016	9	15.04	80.91	7.6	33.58	8.2	24.9	2.15
I34	11 Feb 2016	10	15.01	79.77	7.5	33.58	8.2	24.9	2.32
I34	11 Feb 2016	11	14.98	79.31	7.5	33.58	8.1	24.9	2.10
I34	11 Feb 2016	12	14.95	79.04	7.5	33.57	8.1	24.9	2.28
I34	11 Feb 2016	13	14.94	78.76	7.4	33.57	8.1	24.9	2.10
I34	11 Feb 2016	14	14.91	78.19	7.3	33.57	8.1	24.9	2.22
I34	11 Feb 2016	15	14.88	77.33	7.2	33.57	8.1	24.9	2.32
I34	11 Feb 2016	16	14.87	77.15	7.3	33.57	8.1	24.9	2.16
I34	11 Feb 2016	17	14.87	77.08	7.2	33.57	8.1	24.9	2.46
I34	11 Feb 2016	18	14.87	76.76	7.3	33.57	8.1	24.9	2.50
I34	11 Feb 2016	19	14.86	76.24	7.2	33.57	8.1	24.9	2.41
I35	11 Feb 2016	1	15.69	82.08	8.3	33.59	8.2	24.7	0.75
I35	11 Feb 2016	2	15.56	82.09	8.3	33.59	8.2	24.8	0.93
I35	11 Feb 2016	3	15.42	81.63	8.4	33.59	8.2	24.8	1.15
I35	11 Feb 2016	4	15.39	81.54	8.3	33.58	8.2	24.8	1.24
I35	11 Feb 2016	5	15.36	81.38	8.3	33.58	8.2	24.8	1.55
I35	11 Feb 2016	6	15.29	81.30	8.3	33.58	8.2	24.8	1.99
I35	11 Feb 2016	7	15.27	80.97	8.3	33.58	8.2	24.8	2.28
I35	11 Feb 2016	8	15.26	80.86	8.3	33.58	8.2	24.8	2.84
I35	11 Feb 2016	9	15.23	80.65	8.3	33.58	8.2	24.8	3.20
I35	11 Feb 2016	10	15.19	80.17	8.3	33.58	8.2	24.8	4.13
I35	11 Feb 2016	11	15.14	79.66	8.3	33.58	8.2	24.8	4.48
I35	11 Feb 2016	12	15.09	79.00	8.3	33.58	8.2	24.9	4.71
I35	11 Feb 2016	13	15.06	77.63	8.2	33.58	8.2	24.9	4.93
I35	11 Feb 2016	14	15.01	73.61	8.1	33.59	8.2	24.9	5.07
I35	11 Feb 2016	15	14.98	71.08	7.9	33.59	8.2	24.9	5.29
I35	11 Feb 2016	16	14.93	69.08	7.7	33.59	8.2	24.9	5.64
I35	11 Feb 2016	17	14.90	66.69	7.6	33.59	8.2	24.9	5.18

Station	Date	Depth (m)	Temp (°C)	XMS (‰)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I35	11 Feb 2016	18	14.85	58.89	7.5	33.59	8.2	24.9	4.83
I35	11 Feb 2016	19	14.83	55.06	7.4	33.59	8.1	24.9	4.83
I36	11 Feb 2016	1	15.79	74.89	8.2	33.59	8.2	24.7	1.13
I36	11 Feb 2016	2	15.60	74.76	8.3	33.60	8.2	24.8	1.34
I36	11 Feb 2016	3	15.48	75.31	8.3	33.59	8.2	24.8	1.90
I36	11 Feb 2016	4	15.38	72.55	8.2	33.59	8.2	24.8	2.34
I36	11 Feb 2016	5	15.28	70.54	8.2	33.59	8.2	24.8	3.35
I36	11 Feb 2016	6	15.22	70.81	8.3	33.58	8.2	24.8	4.56
I36	11 Feb 2016	7	15.17	73.06	8.1	33.58	8.2	24.8	5.11
I36	11 Feb 2016	8	15.00	70.37	7.8	33.58	8.2	24.9	5.42
I36	11 Feb 2016	9	14.96	60.59	7.7	33.57	8.2	24.9	5.76
I36	11 Feb 2016	10	14.94	58.62	7.6	33.57	8.2	24.9	5.54
I36	11 Feb 2016	11	14.92	57.92	7.5	33.56	8.2	24.9	5.55
I37	11 Feb 2016	1	15.32	79.74	8.2	33.59	8.2	24.8	1.67
I37	11 Feb 2016	2	15.29	79.83	8.2	33.59	8.2	24.8	1.98
I37	11 Feb 2016	3	15.29	80.28	8.2	33.59	8.2	24.8	2.35
I37	11 Feb 2016	4	15.28	80.46	8.1	33.59	8.2	24.8	2.64
I37	11 Feb 2016	5	15.28	80.57	8.1	33.59	8.2	24.8	3.14
I37	11 Feb 2016	6	15.26	80.50	7.8	33.58	8.2	24.8	3.79
I37	11 Feb 2016	7	15.10	79.49	7.8	33.58	8.2	24.9	4.49
I37	11 Feb 2016	8	15.07	74.70	7.6	33.58	8.1	24.9	4.95
I37	11 Feb 2016	9	14.92	67.57	7.4	33.58	8.1	24.9	5.41
I37	11 Feb 2016	10	14.85	66.36	7.4	33.58	8.1	24.9	5.63
I37	11 Feb 2016	11	14.81	59.81	7.4	33.58	8.1	24.9	6.07
I37	11 Feb 2016	12	14.80	57.60	7.3	33.58	8.1	24.9	6.65
I38	11 Feb 2016	1	15.44	83.98	8.2	33.58	8.2	24.8	0.69
I38	11 Feb 2016	2	15.44	84.10	8.2	33.58	8.2	24.8	0.69
I38	11 Feb 2016	3	15.46	84.12	8.2	33.58	8.2	24.8	0.83
I38	11 Feb 2016	4	15.32	84.27	8.2	33.58	8.2	24.8	1.08
I38	11 Feb 2016	5	15.28	83.49	8.2	33.58	8.2	24.8	1.32
I38	11 Feb 2016	6	15.25	83.08	8.2	33.58	8.2	24.8	1.64
I38	11 Feb 2016	7	15.23	83.15	8.2	33.58	8.2	24.8	1.90
I38	11 Feb 2016	8	15.20	83.03	8.0	33.58	8.2	24.8	2.49
I38	11 Feb 2016	9	15.13	82.42	8.0	33.57	8.2	24.8	3.45
I38	11 Feb 2016	10	15.04	80.97	8.1	33.57	8.2	24.9	5.37
I38	11 Feb 2016	11	14.84	75.73	8.1	33.58	8.2	24.9	7.87

NA = not available

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APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
I3	09 Feb 2016	18	ZV	LAB DUPLICATE	96	2e	<20
I9	09 Feb 2016	27	ZV	LAB DUPLICATE	<2	<2	<20
I12	10 Feb 2016	18	ZV	LAB DUPLICATE	<2	<2	<2
I13	09 Feb 2016	18	JT	LAB DUPLICATE	<2	<2	<20
I14	10 Feb 2016	2	ZV	LAB DUPLICATE	6e	<2	<2
I16	10 Feb 2016	18	JT	LAB DUPLICATE	2e	<2	<2
I19	04 Feb 2016	6	JT	LAB DUPLICATE	9600	100	94
I19	10 Feb 2016	6	LMA	FIELD DUPLICATE	200e	4e	20e
I19	10 Feb 2016	6	LMA	LAB DUPLICATE	<20	12e	8e
I19	20 Feb 2016	6	SR	LAB DUPLICATE	2e	<2	<2
I19	23 Feb 2016	6	ZV	LAB DUPLICATE	2e	<2	<2
I19	29 Feb 2016	6	LMA	LAB DUPLICATE	ns	<2	ns
I19	29 Feb 2016	6	SR	LAB DUPLICATE	<2	ns	ns
I19	29 Feb 2016	6	ZV	LAB DUPLICATE	ns	ns	2e
I20	09 Feb 2016	55	JT	LAB DUPLICATE	<2	<2	<2
I32	11 Feb 2016	9	LMA	LAB DUPLICATE	130	8e	2e
I36	11 Feb 2016	11	LMA	LAB DUPLICATE	74	2e	<2
I40	04 Feb 2016	6	JT	LAB DUPLICATE	80	<2	<2
I40	20 Feb 2016	6	SR	LAB DUPLICATE	4e	<2	<2
I40	23 Feb 2016	6	ZV	LAB DUPLICATE	<2	<2	<2
I40	29 Feb 2016	6	AR	LAB DUPLICATE	<2	ns	ns
I40	29 Feb 2016	6	LMA	LAB DUPLICATE	ns	<2	ns
I40	29 Feb 2016	6	ZV	LAB DUPLICATE	ns	ns	2e
S12	02 Feb 2016		JT	FIELD DUPLICATE	<2	2e	2e
S12	02 Feb 2016		JT	LAB DUPLICATE	<2	<2	<2
S12	09 Feb 2016		LMA	FIELD DUPLICATE	2e	<2	<2
S12	09 Feb 2016		LMA	LAB DUPLICATE	2e	<2	<2
S12	16 Feb 2016		AR	FIELD DUPLICATE	<2	<2	<2
S12	16 Feb 2016		AR	LAB DUPLICATE	<2	<2	<2
S12	23 Feb 2016		JT	FIELD DUPLICATE	2e	<2	<2
S12	23 Feb 2016		JT	LAB DUPLICATE	4e	<2	<2

ns = not sampled

ND = no data

