



# Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall

(South Bay Water Reclamation Plant)

NPDES Permit No. CA0109045

## February 2015



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





THE CITY OF SAN DIEGO

March 31, 2015

Mr. 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 2015 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:mln

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 Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013.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 S8–12).

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 stations (I19, I24, I25, I26, I32, I39, I40) were sampled according to NPDES permit specifications in order to monitor water quality compliance within a kelp bed-suitable area. The seven kelp stations 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 seven stations are only occasionally located within an area where kelp is actually found. 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.

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.

All water samples were collected using Van Dorn bottles arrayed at the required depths and messenger-tripped in series. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate of eight scans per second. The data were then

internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data. However, it should be noted that the CTD measurements and bacteriological samples were taken from separate hydrocasts.

### ***Offshore Stations***

Quarterly offshore water quality sampling was 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 three stations are reported within the kelp bed station section of the report with the other four days of kelp bed water quality sampling. Monitoring at all sites included measurements of various physical/chemical parameters, including water temperature, salinity, density, dissolved oxygen, pH, chlorophyll *a*, transmissivity, and chromomorphic dissolved organic matter (CDOM). Visual observations of weather and water conditions were also recorded at all stations. Seawater samples for the analysis of indicator bacteria, suspended solids, and oil and grease concentrations were collected at 28 of the stations.

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

### ***Bacteriological Reporting and Quality Assurance***

Estimated values for bacteriological analyses are denoted by greater than (>), less than (<), or estimated (e) qualifiers and result from plates with colony counts above or below the permissible counting limits established in Bordner et al. (1978)<sup>[1]</sup>. 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;

---

<sup>[1]</sup>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.

- (3) *Enterococcus* density shall not exceed 35 CFU/100 mL.

Single Sample Maximums:

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

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

## 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, four 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 fecal coliforms was exceeded at station S5 on multiple days during the month.
  - The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S5, S10, and S11 on multiple days during the month.
  - The single sample maximum (SSM) standard for total coliforms was exceeded at stations S4, S5, and S10 on one or more days during the month.
  - The SSM standards for fecal coliforms and the standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 were each exceeded at stations S5 and S10 on one or more days during the month.
  - The SSM standard for *Enterococcus* was exceeded at station S5 on three days during the month.
  - Per 2012 Ocean Plan 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 were in compliance with 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, S2 and S3 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 *Annual Receiving Waters Monitoring Report for the South Bay Ocean Outfall* for details (<http://www.sandiego.gov/mwwd/environment/reports.shtml>).
- Notable visual observations for February included: water flowing from a storm drain at stations S0 and S3. These observations were made on one or more 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, 5, 12, 18, 22, 27).
- During February, four of the seven stations were out of compliance with various Ocean Plan water contact standards (see below).
  - The SSM standards for total coliforms and fecal coliforms were each exceeded at stations I24 and I25 on February 4.
  - The SSM standard for *Enterococcus* was exceeded at stations I19, I24, and I25 on February 4.
  - 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 I40 on February 4.
  - Per 2012 Ocean Plan requirements, resamples were collected in response to these SSM exceedances (see Table 3.8 for details).
- Water column temperatures ranged from 12.23 to 16.73°C. The difference between surface and bottom waters ranged from approximately 0.04 to 2.73°C, indicating the water column was stratified at these sites.



- Chlorophyll *a* concentrations ranged from 0.51 to 5.44 µg/L at these stations, suggesting the presence of phytoplankton blooms during the month.
- Suspended solid values ranged from 0.2 to 9.9 mg/L in February. Elevated levels of suspended solids (i.e., values  $\geq$  8 mg/L) occurred in a seawater sample collected at station I24 at 11 m depth. Higher suspended solid concentrations may be due to the resuspension of bottom sediments when the CTD touched the sea floor or associated with the presence of phytoplankton blooms that occurred around the time of sampling.
- Oil and grease values were  $\leq$  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**

- Monthly offshore water quality sampling was conducted over three days during the month (i.e., February 3, 4, 5).
- All but one 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.
  - The SSM standard for *Enterococcus* was exceeded at station I12 on February 4.
- All of the remaining offshore stations north of the US/Mexico border (i.e., I13, I20, I21, I30) were also characterized by low densities of bacteria (i.e., total coliforms  $\leq$  10,000 CFU/100 mL; fecal coliforms  $\leq$  400 CFU/100 mL; *Enterococcus*  $\leq$  104 CFU/100 mL).
- Water column temperatures ranged from 12.23 to 16.77°C at the offshore sites. The difference between surface and bottom waters ranged from 0.21 to 4.54°C, indicating that the water column was stratified at offshore stations during the month.
- Chlorophyll *a* concentrations ranged from 0.24 to 2.85 µg/L at the offshore sites, suggesting the absence of phytoplankton blooms during the month.
- CDOM data are available upon request.
- Suspended solid values ranged from 0.2 to 10.4 mg/L in February. Elevated levels of suspended solids (i.e., values  $\geq$  8 mg/L) occurred in a seawater sample collected at station I36 at 11 m depth. Higher suspended solid concentrations may be due to the resuspension of bottom sediments when the CTD touched the sea floor
- Oil and grease values were  $\leq$  0.2 mg/L in all offshore seawater samples.
- Nothing of sewage origin was observed at any of the offshore stations.

This page intentionally left blank

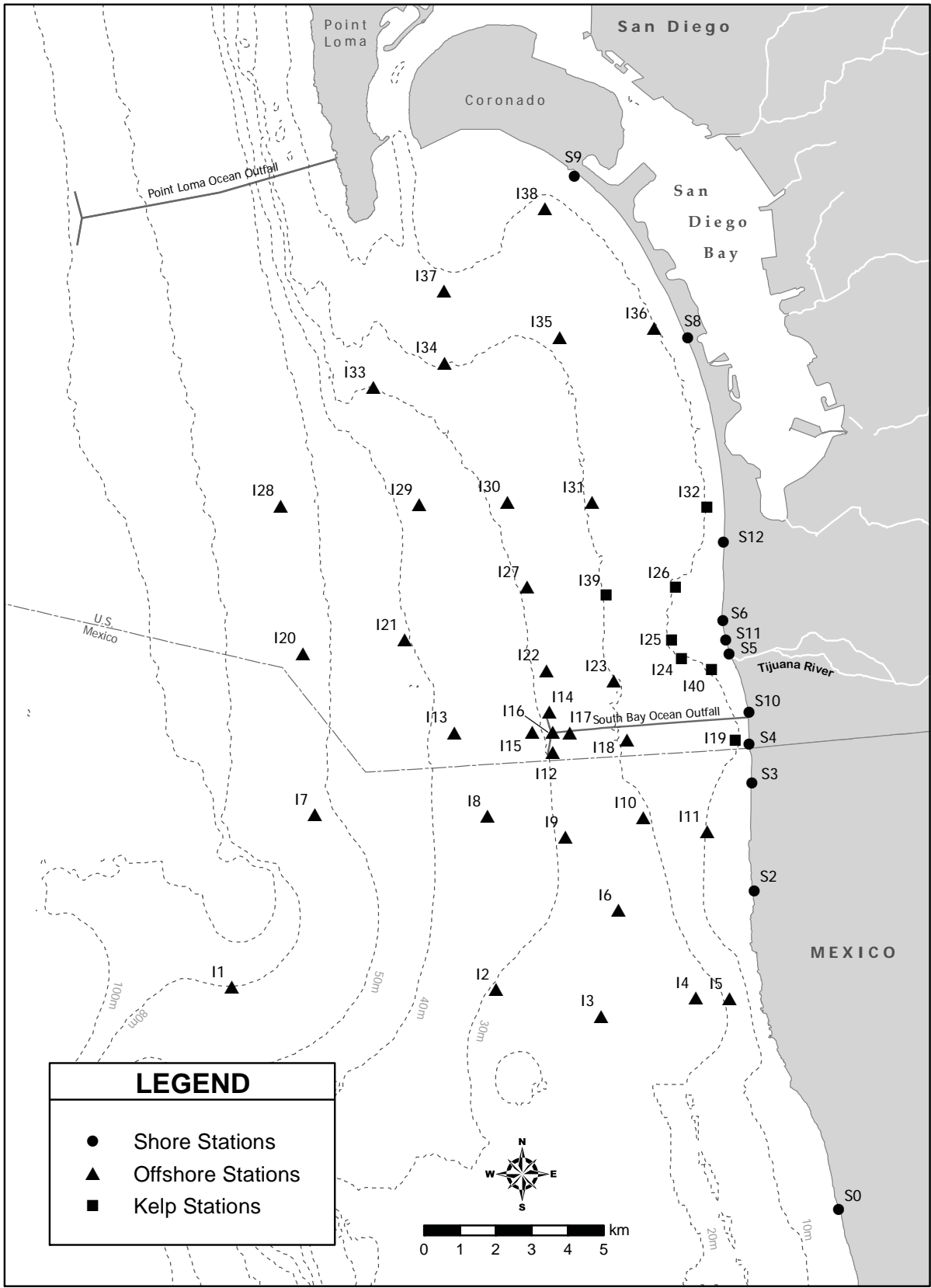


Figure 1.1 Station Map

This page intentionally left blank

***SHORE STATIONS***



**Table 2.1**

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for total coliforms at the SBOO shore stations located north of the USA/Mexico border. 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 >1000 CFU/100 mL exceed the standard.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Feb 2015	232	1344	20*	8*	15*	921	636	5*
02 Feb 2015	232	1344	20*	8*	15*	921	636	5*
03 Feb 2015	470	1659	17	6	10	1316	244	4
04 Feb 2015	470	1659	17	6	10	1316	244	4
05 Feb 2015	708	1412	8*	8*	4*	1207	134	4*
06 Feb 2015	708	1412	8*	8*	4*	1207	134	4*
07 Feb 2015	708	1178	8*	8*	4*	1207	134	4*
08 Feb 2015	708	1471	8*	8*	4*	1207	134	4*
09 Feb 2015	708	1471	8*	8*	4*	1207	134	4*
10 Feb 2015	338	985	6	6	5	592	67	5
11 Feb 2015	338	985	6	6	5	592	67	5
12 Feb 2015	178	696	5*	6*	5*	392	24	6*
13 Feb 2015	178	696	5*	6*	5*	392	24	6*
14 Feb 2015	81	444	5*	6*	5*	231	6*	6*
15 Feb 2015	81	245	5*	6*	5*	124	6*	6*
16 Feb 2015	81	245	5*	6*	5*	124	6*	6*
17 Feb 2015	49	133	4	8	7	63	5	6
18 Feb 2015	49	133	4	8	7	63	5	6
19 Feb 2015	37	148	3*	6*	5*	54	4*	4*
20 Feb 2015	37	148	3*	6*	5*	54	4*	4*
21 Feb 2015	37	148	3*	6*	5*	54	4*	4*
22 Feb 2015	37	148	3*	6*	5*	54	4*	4*
23 Feb 2015	37	148	3*	6*	5*	54	4*	4*
24 Feb 2015	44	323	4	5	7	136	15	3
25 Feb 2015	44	323	4	5	7	136	15	3
26 Feb 2015	81	983	5*	4*	9*	321	14*	4*
27 Feb 2015	81	1464	5*	4*	9*	216	14*	4*
28 Feb 2015	81	1464	5*	4*	9*	216	14*	4*

\* Geometric mean calculated using an n<5

**Table 2.2**

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for fecal coliform at the SBOO shore stations located north of the USA/Mexico border. 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 2015	35	293	8*	6*	7*	58	51	4*
02 Feb 2015	35	293	8*	6*	7*	58	51	4*
03 Feb 2015	50	265	8	5	5	71	30	3
04 Feb 2015	50	265	8	5	5	71	30	3
05 Feb 2015	63	219	6*	6*	3*	88	20	4*
06 Feb 2015	63	219	6*	6*	3*	88	20	4*
07 Feb 2015	63	189	6*	6*	3*	88	20	4*
08 Feb 2015	63	236	6*	6*	3*	88	20	4*
09 Feb 2015	63	236	6*	6*	3*	88	20	4*
10 Feb 2015	38	139	5	5	3	58	13	3
11 Feb 2015	38	139	5	5	3	58	13	3
12 Feb 2015	18	80	6*	6*	4*	32	6	4*
13 Feb 2015	18	80	6*	6*	4*	32	6	4*
14 Feb 2015	12	39	6*	6*	4*	17	2*	4*
15 Feb 2015	12	17	6*	6*	4*	11	2*	4*
16 Feb 2015	12	17	6*	6*	4*	11	2*	4*
17 Feb 2015	9	14	5	7	4	10	2	4
18 Feb 2015	9	14	5	7	4	10	2	4
19 Feb 2015	7	15	3*	6*	3*	9	2*	2*
20 Feb 2015	7	15	3*	6*	3*	9	2*	2*
21 Feb 2015	7	15	3*	6*	3*	9	2*	2*
22 Feb 2015	7	15	3*	6*	3*	9	2*	2*
23 Feb 2015	7	15	3*	6*	3*	9	2*	2*
24 Feb 2015	8	47	3	5	3	20	5	2
25 Feb 2015	8	47	3	5	3	20	5	2
26 Feb 2015	10	159	3*	3*	3*	52	6*	2*
27 Feb 2015	10	239	3*	3*	3*	33	6*	2*
28 Feb 2015	10	239	3*	3*	3*	33	6*	2*

\* Geometric mean calculated using an n<5



**Table 2.3**

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for *Enterococcus* at the SBOO shore stations located north of the USA/Mexico border. 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 2015	27	393	7*	2*	4*	82	37	5*
02 Feb 2015	27	393	7*	2*	4*	82	37	5*
03 Feb 2015	28	215	5	2	3	66	29	4
04 Feb 2015	28	215	5	2	3	66	29	4
05 Feb 2015	25	150	4*	2*	4*	52	24	5*
06 Feb 2015	25	150	4*	2*	4*	52	24	5*
07 Feb 2015	25	138	4*	2*	4*	52	18	5*
08 Feb 2015	25	140	4*	2*	4*	52	19	5*
09 Feb 2015	25	140	4*	2*	4*	52	19	5*
10 Feb 2015	17	138	3	2	4	36	14	4
11 Feb 2015	17	138	3	2	4	36	14	4
12 Feb 2015	9	79	4*	2*	5*	21	9	5*
13 Feb 2015	9	79	4*	2*	5*	21	9	5*
14 Feb 2015	6	39	4*	2*	5*	13	5	5*
15 Feb 2015	6	20	4*	2*	5*	9	4*	5*
16 Feb 2015	6	20	4*	2*	5*	9	4*	5*
17 Feb 2015	8	11	4	3	5	8	3	5
18 Feb 2015	8	11	4	3	5	8	3	5
19 Feb 2015	6	9	2*	3*	4*	8	3*	2*
20 Feb 2015	6	9	2*	3*	4*	8	3*	2*
21 Feb 2015	6	9	2*	3*	4*	8	3*	2*
22 Feb 2015	6	9	2*	3*	4*	8	3*	2*
23 Feb 2015	6	9	2*	3*	4*	8	3*	2*
24 Feb 2015	5	30	2	2	3	12	4	2
25 Feb 2015	5	30	2	2	3	12	4	2
26 Feb 2015	7	56	2*	3*	4*	9	5*	2*
27 Feb 2015	7	72	2*	3*	4*	9	5*	2*
28 Feb 2015	7	72	2*	3*	4*	9	5*	2*

\* Geometric mean calculated using an n<5

**Table 2.4**

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 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.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
03 Feb 2015	E	E	IC	IC	IC	E	IC	IC
05 Feb 2015	IC	IC	ns	ns	ns	IC	ns	ns
10 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Feb 2015	IC	E	IC	IC	IC	E	IC	IC
26 Feb 2015	ns	E	ns	ns	ns	IC	ns	ns
27 Feb 2015	ns	E	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

**Table 2.5**

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
03 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
05 Feb 2015	IC	IC	ns	ns	ns	IC	ns	ns
10 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Feb 2015	IC	E	IC	IC	IC	E	IC	IC
26 Feb 2015	ns	E	ns	ns	ns	E	ns	ns
27 Feb 2015	ns	E	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

**Table 2.6**

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
03 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
05 Feb 2015	IC	IC	ns	ns	ns	IC	ns	ns
10 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Feb 2015	IC	E	IC	IC	IC	IC	IC	IC
26 Feb 2015	ns	E	ns	ns	ns	ns	ns	ns
27 Feb 2015	ns	E	ns	ns	ns	ns	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

**Table 2.7**

Summary of compliance at the SBOO shore stations located north of the USA/Mexico border with the 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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.

<b>Date</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>S11</b>	<b>S12</b>
03 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
05 Feb 2015	IC	IC	ns	ns	ns	IC	ns	ns
10 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Feb 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Feb 2015	IC	E	IC	IC	IC	IC	IC	IC
26 Feb 2015	ns	E	ns	ns	ns	E	ns	ns
27 Feb 2015	ns	E	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

**Table 2.8**

Concentrations of total coliform (Total), fecal coliform (Fecal), *Enterococcus* (Entero) and the fecal:total coliform ratio (F:T) at each SBOO shore station by sample date. Densities are reported as CFU/100 mL; F:T is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero	F:T
S0	03 Feb 2015	1122	110	20e	34e	0.18
S0	10 Feb 2015	1110	420	26e	76	0.06
S0	17 Feb 2015	1130	6e	<2	2e	0.33
S0	24 Feb 2015	1035	4e	<2	8e	0.50
S2	03 Feb 2015	1025	2e	<2	<2	1.00
S2	10 Feb 2015	1030	<20	2e	2e	0.10
S2	17 Feb 2015	1055	2e	<2	<2	1.00
S2	24 Feb 2015	1115	20e	<2	<2	0.10
S3	03 Feb 2015	943	3400e	120e	44	0.04
S3	10 Feb 2015	942	<20	<2	4e	0.10
S3	17 Feb 2015	1010	20e	<2	2e	0.10
S3	24 Feb 2015	1137	16e	<2	4e	0.12
S4	03 Feb 2015	1044	>16000	320e	32e	0.02
S4	05 Feb 2015	1004	140e	8e	2e	0.06
S4	10 Feb 2015	1004	4e	<2	<2	0.50
S4	17 Feb 2015	1102	4e	<2	24e	0.50
S4	24 Feb 2015	1118	100e	12e	4e	0.12
S5	03 Feb 2015	923	11000	110	16e	0.01
S5	05 Feb 2015	836	400e	42	<2	0.10
S5	10 Feb 2015	852	40e	<2	14e	0.05
S5	17 Feb 2015	947	<20	12e	2e	0.60
S5	24 Feb 2015	933	>16000	>12000	>12000	0.75
S5	26 Feb 2015	848	>16000	>12000	3000e	0.75
S5	27 Feb 2015	934	>16000	2800e	300e	0.17
S6	03 Feb 2015	934	8e	8e	<2	1.00
S6	10 Feb 2015	904	2e	2e	2e	1.00
S6	17 Feb 2015	1000	<2	<2	4e	1.00
S6	24 Feb 2015	946	<20	<2	<2	0.10
S8	03 Feb 2015	810	<2	2e	<2	1.00
S8	10 Feb 2015	727	<2	<2	<2	1.00
S8	17 Feb 2015	827	20e	12e	6e	0.60
S8	24 Feb 2015	820	<2	2e	<2	1.00
S9	03 Feb 2015	748	2e	<2	<2	1.00
S9	10 Feb 2015	710	10e	4e	10e	0.40
S9	17 Feb 2015	811	20e	4e	4e	0.20
S9	24 Feb 2015	801	<20	4e	2e	0.20
S10	03 Feb 2015	1049	>16000	300e	14e	0.02
S10	05 Feb 2015	947	120e	32e	2e	0.27
S10	10 Feb 2015	1009	<2	<2	2e	1.00
S10	17 Feb 2015	1108	6e	<2	12e	0.33
S10	24 Feb 2015	1123	14000	940	100	0.07

Station	Date	Time	Total	Fecal	Entero	F:T
S10	26 Feb 2015	1009	3400e	580e	ns	0.17
S10	27 Feb 2015	1032	20e	<2	ns	0.10
S11	03 Feb 2015	929	2e	<2	4e	1.00
S11	10 Feb 2015	900	2e	<2	2e	1.00
S11	17 Feb 2015	955	2e	<2	<2	1.00
S11	24 Feb 2015	940	4800	120e	28e	0.02
S12	03 Feb 2015	944	<2	<2	<2	1.00
S12	10 Feb 2015	916	8e	<2	<2	0.25
S12	17 Feb 2015	1008	6e	4e	4e	0.67
S12	24 Feb 2015	956	<2	<2	2e	1.00

ns = not sampled

## Comments

<b>Station</b>	<b>Date</b>	<b>Depth</b>	<b>Parameter</b>	<b>Comments</b>
S4	05 Feb 2015			Resample
S5	05 Feb 2015			Resample
S10	05 Feb 2015			Resample
S5	26 Feb 2015			Resample
S10	26 Feb 2015			Resample
S5	27 Feb 2015			Resample
S10	27 Feb 2015			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	03 Feb 2015	Arrive Time	1122
S0	03 Feb 2015	Weather	Sunny
S0	03 Feb 2015	Wind Speed (kts)	1.7
S0	03 Feb 2015	Wind Dir	S
S0	03 Feb 2015	Animal Life	>20 Shorebirds
S0	03 Feb 2015	Floatables	None
S0	03 Feb 2015	Water Color	Green
S0	03 Feb 2015	Current Direction	S
S0	03 Feb 2015	Water Temp (C)	19
S0	03 Feb 2015	Wave Height Low (ft)	6
S0	03 Feb 2015	High Tide (ft)	5.6
S0	03 Feb 2015	High Tide Time	818
S0	03 Feb 2015	Low Tide (ft)	-0.7
S0	03 Feb 2015	Low Tide Time	1513
S0	03 Feb 2015	Comments	Water clear; Flow from stormdrain 0.5 L/sec
S0	10 Feb 2015	Arrive Time	1110
S0	10 Feb 2015	Weather	Sunny
S0	10 Feb 2015	Wind Speed (kts)	6.7
S0	10 Feb 2015	Wind Dir	NE
S0	10 Feb 2015	Animal Life	15 Shorebirds
S0	10 Feb 2015	Floatables	None
S0	10 Feb 2015	Water Color	Green
S0	10 Feb 2015	Current Direction	E
S0	10 Feb 2015	Water Temp (C)	18.5
S0	10 Feb 2015	Wave Height Low (ft)	8
S0	10 Feb 2015	High Tide (ft)	2.5
S0	10 Feb 2015	High Tide Time	1429
S0	10 Feb 2015	Low Tide (ft)	1.5
S0	10 Feb 2015	Low Tide Time	854
S0	10 Feb 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S0	17 Feb 2015	Arrive Time	1130
S0	17 Feb 2015	Weather	Sunny
S0	17 Feb 2015	Wind Speed (kts)	3.1
S0	17 Feb 2015	Wind Dir	NW
S0	17 Feb 2015	Animal Life	>15 Shorebirds; 1 Dog
S0	17 Feb 2015	Floatables	None
S0	17 Feb 2015	Water Color	Green
S0	17 Feb 2015	Current Direction	N

Station	Date	Parameter	Value
S0	17 Feb 2015	Water Temp (C)	17.5
S0	17 Feb 2015	Wave Height Low (ft)	2
S0	17 Feb 2015	High Tide (ft)	6.3
S0	17 Feb 2015	High Tide Time	723
S0	17 Feb 2015	Low Tide (ft)	-1.4
S0	17 Feb 2015	Low Tide Time	1418
S0	17 Feb 2015	Comments	Kelp; Water clear; Flow from stormdrain 1 L/sec
S0	24 Feb 2015	Arrive Time	1035
S0	24 Feb 2015	Weather	Sunny
S0	24 Feb 2015	Wind Speed (kts)	7.8
S0	24 Feb 2015	Wind Dir	NW
S0	24 Feb 2015	Animal Life	3 Dogs; >20 Seagulls
S0	24 Feb 2015	Floatables	None
S0	24 Feb 2015	Water Color	Green
S0	24 Feb 2015	Current Direction	S
S0	24 Feb 2015	Water Temp (C)	16
S0	24 Feb 2015	Wave Height Low (ft)	2
S0	24 Feb 2015	High Tide (ft)	3.1
S0	24 Feb 2015	High Tide Time	1350
S0	24 Feb 2015	Low Tide (ft)	0.7
S0	24 Feb 2015	Low Tide Time	750
S0	24 Feb 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S2	03 Feb 2015	Arrive Time	1025
S2	03 Feb 2015	Weather	Sunny
S2	03 Feb 2015	Wind Speed (kts)	3.2
S2	03 Feb 2015	Wind Dir	S
S2	03 Feb 2015	Animal Life	10 Shorebirds; 2 Dogs
S2	03 Feb 2015	Floatables	None
S2	03 Feb 2015	Water Color	Green
S2	03 Feb 2015	Current Direction	S
S2	03 Feb 2015	Water Temp (C)	19.5
S2	03 Feb 2015	Wave Height Low (ft)	5
S2	03 Feb 2015	High Tide (ft)	5.6
S2	03 Feb 2015	High Tide Time	818
S2	03 Feb 2015	Low Tide (ft)	-0.7
S2	03 Feb 2015	Low Tide Time	1513
S2	03 Feb 2015	Comments	Water clear; No flow from stormdrain; Trash on the shore
S2	10 Feb 2015	Arrive Time	1030
S2	10 Feb 2015	Weather	Sunny
S2	10 Feb 2015	Wind Speed (kts)	4.2
S2	10 Feb 2015	Wind Dir	NE

Station	Date	Parameter	Value
S2	10 Feb 2015	Animal Life	5 Shorebirds; 2 Dogs
S2	10 Feb 2015	Floatables	None
S2	10 Feb 2015	Water Color	Green
S2	10 Feb 2015	Current Direction	E
S2	10 Feb 2015	Water Temp (C)	18.5
S2	10 Feb 2015	Wave Height Low (ft)	8
S2	10 Feb 2015	High Tide (ft)	2.9
S2	10 Feb 2015	High Tide Time	1239
S2	10 Feb 2015	Low Tide (ft)	1.6
S2	10 Feb 2015	Low Tide Time	719
S2	10 Feb 2015	Comments	Kelp; Water clear; No flow from stormdrain
S2	17 Feb 2015	Arrive Time	1055
S2	17 Feb 2015	Weather	Sunny
S2	17 Feb 2015	Wind Speed (kts)	1.9
S2	17 Feb 2015	Wind Dir	NW
S2	17 Feb 2015	Animal Life	10 Shorebirds; 1 Dog
S2	17 Feb 2015	Floatables	None
S2	17 Feb 2015	Water Color	Green
S2	17 Feb 2015	Current Direction	N
S2	17 Feb 2015	Water Temp (C)	18
S2	17 Feb 2015	Wave Height Low (ft)	2
S2	17 Feb 2015	High Tide (ft)	6.3
S2	17 Feb 2015	High Tide Time	723
S2	17 Feb 2015	Low Tide (ft)	-1.4
S2	17 Feb 2015	Low Tide Time	1418
S2	17 Feb 2015	Comments	Kelp; 10 Persons; Water clear; No flow from stormdrain
S2	24 Feb 2015	Arrive Time	1115
S2	24 Feb 2015	Weather	Sunny
S2	24 Feb 2015	Wind Speed (kts)	6.4
S2	24 Feb 2015	Wind Dir	NW
S2	24 Feb 2015	Animal Life	2 Dogs; >20 Seagulls
S2	24 Feb 2015	Floatables	None
S2	24 Feb 2015	Water Color	Green
S2	24 Feb 2015	Current Direction	S
S2	24 Feb 2015	Water Temp (C)	17
S2	24 Feb 2015	Wave Height Low (ft)	2
S2	24 Feb 2015	High Tide (ft)	3.1
S2	24 Feb 2015	High Tide Time	1350
S2	24 Feb 2015	Low Tide (ft)	0.7
S2	24 Feb 2015	Low Tide Time	750
S2	24 Feb 2015	Comments	Kelp; Water turbid; No flow from stormdrain
S3	03 Feb 2015	Arrive Time	943
S3	03 Feb 2015	Weather	Sunny

Station	Date	Parameter	Value
S3	03 Feb 2015	Wind Speed (kts)	2.4
S3	03 Feb 2015	Wind Dir	S
S3	03 Feb 2015	Animal Life	5 Shorebirds; 3 Dogs
S3	03 Feb 2015	Floatables	None
S3	03 Feb 2015	Water Color	Green
S3	03 Feb 2015	Current Direction	S
S3	03 Feb 2015	Water Temp (C)	20
S3	03 Feb 2015	Wave Height Low (ft)	6
S3	03 Feb 2015	High Tide (ft)	5.6
S3	03 Feb 2015	High Tide Time	818
S3	03 Feb 2015	Low Tide (ft)	-0.7
S3	03 Feb 2015	Low Tide Time	1513
S3	03 Feb 2015	Comments	10 Persons; 10 Surfers; Water clear; No flow from stormdrain
S3	10 Feb 2015	Arrive Time	942
S3	10 Feb 2015	Weather	Sunny
S3	10 Feb 2015	Wind Speed (kts)	5.1
S3	10 Feb 2015	Wind Dir	NE
S3	10 Feb 2015	Animal Life	5 Shorebirds
S3	10 Feb 2015	Floatables	None
S3	10 Feb 2015	Water Color	Green
S3	10 Feb 2015	Current Direction	E
S3	10 Feb 2015	Water Temp (C)	18.5
S3	10 Feb 2015	Wave Height Low (ft)	7
S3	10 Feb 2015	High Tide (ft)	2.9
S3	10 Feb 2015	High Tide Time	1239
S3	10 Feb 2015	Low Tide (ft)	1.6
S3	10 Feb 2015	Low Tide Time	719
S3	10 Feb 2015	Comments	Water clear; No flow from stormdrain
S3	17 Feb 2015	Arrive Time	1010
S3	17 Feb 2015	Weather	Sunny
S3	17 Feb 2015	Wind Speed (kts)	2.1
S3	17 Feb 2015	Wind Dir	NW
S3	17 Feb 2015	Animal Life	15 Shorebirds; 2 Dogs
S3	17 Feb 2015	Floatables	None
S3	17 Feb 2015	Water Color	Green
S3	17 Feb 2015	Current Direction	N
S3	17 Feb 2015	Water Temp (C)	18
S3	17 Feb 2015	Wave Height Low (ft)	3
S3	17 Feb 2015	High Tide (ft)	6.3
S3	17 Feb 2015	High Tide Time	723
S3	17 Feb 2015	Low Tide (ft)	-1.4
S3	17 Feb 2015	Low Tide Time	1418
S3	17 Feb 2015	Comments	Kelp; 10 Persons; >10 Surfers; Water clear; No flow from stormdrain

Station	Date	Parameter	Value
S3	24 Feb 2015	Arrive Time	1137
S3	24 Feb 2015	Weather	Sunny
S3	24 Feb 2015	Wind Speed (kts)	6.9
S3	24 Feb 2015	Wind Dir	NW
S3	24 Feb 2015	Animal Life	3 Dogs; >20 Seagulls
S3	24 Feb 2015	Floatables	None
S3	24 Feb 2015	Water Color	Green
S3	24 Feb 2015	Current Direction	S
S3	24 Feb 2015	Water Temp (C)	17.5
S3	24 Feb 2015	Wave Height Low (ft)	2
S3	24 Feb 2015	High Tide (ft)	3.1
S3	24 Feb 2015	High Tide Time	1350
S3	24 Feb 2015	Low Tide (ft)	0.7
S3	24 Feb 2015	Low Tide Time	750
S3	24 Feb 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S4	03 Feb 2015	Arrive Time	1044
S4	03 Feb 2015	Weather	Sunny
S4	03 Feb 2015	Wind Speed (kts)	3.6
S4	03 Feb 2015	Wind Dir	NW
S4	03 Feb 2015	Animal Life	None
S4	03 Feb 2015	Floatables	None
S4	03 Feb 2015	Water Color	Green
S4	03 Feb 2015	Current Direction	NW
S4	03 Feb 2015	Water Temp (C)	16.3
S4	03 Feb 2015	Wave Height Low (ft)	3
S4	03 Feb 2015	High Tide (ft)	5.6
S4	03 Feb 2015	High Tide Time	818
S4	03 Feb 2015	Low Tide (ft)	-0.7
S4	03 Feb 2015	Low Tide Time	1513
S4	03 Feb 2015	Comments	Seagrass; Water clear
S4	05 Feb 2015	Arrive Time	1004
S4	05 Feb 2015	Weather	Sunny
S4	05 Feb 2015	Wind Speed (kts)	3.6
S4	05 Feb 2015	Wind Dir	N
S4	05 Feb 2015	Animal Life	None
S4	05 Feb 2015	Floatables	None
S4	05 Feb 2015	Water Color	Green
S4	05 Feb 2015	Current Direction	N
S4	05 Feb 2015	Water Temp (C)	14.8
S4	05 Feb 2015	Wave Height Low (ft)	3
S4	05 Feb 2015	High Tide (ft)	5.2
S4	05 Feb 2015	High Tide Time	920
S4	05 Feb 2015	Low Tide (ft)	-0.3

Station	Date	Parameter	Value
S4	05 Feb 2015	Low Tide Time	1606
S4	05 Feb 2015	Comments	Water clear
S4	10 Feb 2015	Arrive Time	1004
S4	10 Feb 2015	Weather	Sunny
S4	10 Feb 2015	Wind Speed (kts)	7.3
S4	10 Feb 2015	Wind Dir	NW
S4	10 Feb 2015	Animal Life	None
S4	10 Feb 2015	Floatables	None
S4	10 Feb 2015	Water Color	Green
S4	10 Feb 2015	Current Direction	NW
S4	10 Feb 2015	Water Temp (C)	16.3
S4	10 Feb 2015	Wave Height Low (ft)	3
S4	10 Feb 2015	High Tide (ft)	2.9
S4	10 Feb 2015	High Tide Time	1239
S4	10 Feb 2015	Low Tide (ft)	1.6
S4	10 Feb 2015	Low Tide Time	719
S4	10 Feb 2015	Comments	Seagrass; Water clear
S4	17 Feb 2015	Arrive Time	1102
S4	17 Feb 2015	Weather	Sunny
S4	17 Feb 2015	Wind Speed (kts)	4
S4	17 Feb 2015	Wind Dir	W
S4	17 Feb 2015	Animal Life	None
S4	17 Feb 2015	Floatables	None
S4	17 Feb 2015	Water Color	Green
S4	17 Feb 2015	Current Direction	W
S4	17 Feb 2015	Water Temp (C)	17.2
S4	17 Feb 2015	Wave Height Low (ft)	4
S4	17 Feb 2015	High Tide (ft)	6.3
S4	17 Feb 2015	High Tide Time	723
S4	17 Feb 2015	Low Tide (ft)	-1.4
S4	17 Feb 2015	Low Tide Time	1418
S4	17 Feb 2015	Comments	Water clear
S4	24 Feb 2015	Arrive Time	1118
S4	24 Feb 2015	Weather	Sunny
S4	24 Feb 2015	Wind Speed (kts)	8.1
S4	24 Feb 2015	Wind Dir	NW
S4	24 Feb 2015	Animal Life	None
S4	24 Feb 2015	Floatables	None
S4	24 Feb 2015	Water Color	Green
S4	24 Feb 2015	Current Direction	NW
S4	24 Feb 2015	Water Temp (C)	16.2
S4	24 Feb 2015	Wave Height Low (ft)	3
S4	24 Feb 2015	High Tide (ft)	3.1
S4	24 Feb 2015	High Tide Time	1350

Station	Date	Parameter	Value
S4	24 Feb 2015	Low Tide (ft)	0.7
S4	24 Feb 2015	Low Tide Time	750
S4	24 Feb 2015	Comments	Kelp; Water clear
S5	03 Feb 2015	Arrive Time	923
S5	03 Feb 2015	Weather	Sunny
S5	03 Feb 2015	Wind Speed (kts)	2.1
S5	03 Feb 2015	Wind Dir	N
S5	03 Feb 2015	Animal Life	None
S5	03 Feb 2015	Floatables	None
S5	03 Feb 2015	Water Color	Green
S5	03 Feb 2015	Current Direction	N
S5	03 Feb 2015	Water Temp (C)	16.3
S5	03 Feb 2015	Wave Height Low (ft)	2
S5	03 Feb 2015	High Tide (ft)	5.6
S5	03 Feb 2015	High Tide Time	818
S5	03 Feb 2015	Low Tide (ft)	-0.7
S5	03 Feb 2015	Low Tide Time	1513
S5	03 Feb 2015	Comments	Seagrass; Water clear
S5	05 Feb 2015	Arrive Time	836
S5	05 Feb 2015	Weather	Sunny
S5	05 Feb 2015	Wind Speed (kts)	5.6
S5	05 Feb 2015	Wind Dir	E
S5	05 Feb 2015	Animal Life	None
S5	05 Feb 2015	Floatables	None
S5	05 Feb 2015	Water Color	Green
S5	05 Feb 2015	Current Direction	E
S5	05 Feb 2015	Water Temp (C)	15.6
S5	05 Feb 2015	Wave Height Low (ft)	3
S5	05 Feb 2015	High Tide (ft)	5.2
S5	05 Feb 2015	High Tide Time	920
S5	05 Feb 2015	Low Tide (ft)	1.2
S5	05 Feb 2015	Low Tide Time	326
S5	05 Feb 2015	Comments	Kelp; Water clear
S5	10 Feb 2015	Arrive Time	852
S5	10 Feb 2015	Weather	Sunny
S5	10 Feb 2015	Wind Speed (kts)	1.7
S5	10 Feb 2015	Wind Dir	SE
S5	10 Feb 2015	Animal Life	None
S5	10 Feb 2015	Floatables	None
S5	10 Feb 2015	Water Color	Green
S5	10 Feb 2015	Current Direction	SE
S5	10 Feb 2015	Water Temp (C)	15.6
S5	10 Feb 2015	Wave Height Low (ft)	3
S5	10 Feb 2015	High Tide (ft)	2.9

Station	Date	Parameter	Value
S5	10 Feb 2015	High Tide Time	1239
S5	10 Feb 2015	Low Tide (ft)	1.6
S5	10 Feb 2015	Low Tide Time	719
S5	10 Feb 2015	Comments	Kelp; Water clear
S5	17 Feb 2015	Arrive Time	947
S5	17 Feb 2015	Weather	Sunny
S5	17 Feb 2015	Wind Speed (kts)	3.1
S5	17 Feb 2015	Wind Dir	W
S5	17 Feb 2015	Animal Life	None
S5	17 Feb 2015	Floatables	None
S5	17 Feb 2015	Water Color	Green
S5	17 Feb 2015	Current Direction	W
S5	17 Feb 2015	Water Temp (C)	16.6
S5	17 Feb 2015	Wave Height Low (ft)	3
S5	17 Feb 2015	High Tide (ft)	6.3
S5	17 Feb 2015	High Tide Time	723
S5	17 Feb 2015	Low Tide (ft)	-1.4
S5	17 Feb 2015	Low Tide Time	1418
S5	17 Feb 2015	Comments	Kelp; Water clear
S5	24 Feb 2015	Arrive Time	933
S5	24 Feb 2015	Weather	Sunny
S5	24 Feb 2015	Wind Speed (kts)	3.6
S5	24 Feb 2015	Wind Dir	N
S5	24 Feb 2015	Animal Life	None
S5	24 Feb 2015	Floatables	None
S5	24 Feb 2015	Water Color	Brown
S5	24 Feb 2015	Current Direction	N
S5	24 Feb 2015	Water Temp (C)	18.4
S5	24 Feb 2015	Wave Height Low (ft)	3
S5	24 Feb 2015	High Tide (ft)	3.1
S5	24 Feb 2015	High Tide Time	1350
S5	24 Feb 2015	Low Tide (ft)	0.7
S5	24 Feb 2015	Low Tide Time	750
S5	24 Feb 2015	Comments	Water clear; Detergent-like smell
S5	26 Feb 2015	Arrive Time	848
S5	26 Feb 2015	Weather	Partly Cloudy
S5	26 Feb 2015	Wind Speed (kts)	1.1
S5	26 Feb 2015	Wind Dir	NE
S5	26 Feb 2015	Animal Life	None
S5	26 Feb 2015	Floatables	None
S5	26 Feb 2015	Water Color	Green
S5	26 Feb 2015	Current Direction	S
S5	26 Feb 2015	Water Temp (C)	16.1
S5	26 Feb 2015	Wave Height Low (ft)	2



Station	Date	Parameter	Value
S5	26 Feb 2015	High Tide (ft)	4.6
S5	26 Feb 2015	High Tide Time	313
S5	26 Feb 2015	Low Tide (ft)	0.4
S5	26 Feb 2015	Low Tide Time	1100
S5	26 Feb 2015	Comments	Water clear
S5	27 Feb 2015	Arrive Time	934
S5	27 Feb 2015	Weather	Sunny
S5	27 Feb 2015	Wind Speed (kts)	10.1
S5	27 Feb 2015	Wind Dir	S
S5	27 Feb 2015	Animal Life	1 Shorebird
S5	27 Feb 2015	Floatables	None
S5	27 Feb 2015	Water Color	Green
S5	27 Feb 2015	Current Direction	S
S5	27 Feb 2015	Water Temp (C)	16
S5	27 Feb 2015	Wave Height Low (ft)	3
S5	27 Feb 2015	High Tide (ft)	4.6
S5	27 Feb 2015	High Tide Time	430
S5	27 Feb 2015	Low Tide (ft)	0.1
S5	27 Feb 2015	Low Tide Time	1204
S5	27 Feb 2015	Comments	Kelp; Seagrass; Water clear; Detergent smell
S6	03 Feb 2015	Arrive Time	934
S6	03 Feb 2015	Weather	Sunny
S6	03 Feb 2015	Wind Speed (kts)	4.6
S6	03 Feb 2015	Wind Dir	N
S6	03 Feb 2015	Animal Life	None
S6	03 Feb 2015	Floatables	None
S6	03 Feb 2015	Water Color	Green
S6	03 Feb 2015	Current Direction	N
S6	03 Feb 2015	Water Temp (C)	16.6
S6	03 Feb 2015	Wave Height Low (ft)	5
S6	03 Feb 2015	High Tide (ft)	5.6
S6	03 Feb 2015	High Tide Time	818
S6	03 Feb 2015	Low Tide (ft)	-0.7
S6	03 Feb 2015	Low Tide Time	1513
S6	03 Feb 2015	Comments	Water clear
S6	10 Feb 2015	Arrive Time	904
S6	10 Feb 2015	Weather	Sunny
S6	10 Feb 2015	Wind Speed (kts)	1.8
S6	10 Feb 2015	Wind Dir	E
S6	10 Feb 2015	Animal Life	None
S6	10 Feb 2015	Floatables	None
S6	10 Feb 2015	Water Color	Green
S6	10 Feb 2015	Current Direction	E

Station	Date	Parameter	Value
S6	10 Feb 2015	Water Temp (C)	15.4
S6	10 Feb 2015	Wave Height Low (ft)	4
S6	10 Feb 2015	High Tide (ft)	2.9
S6	10 Feb 2015	High Tide Time	1239
S6	10 Feb 2015	Low Tide (ft)	1.6
S6	10 Feb 2015	Low Tide Time	719
S6	10 Feb 2015	Comments	2 Persons; Water clear
S6	17 Feb 2015	Arrive Time	1000
S6	17 Feb 2015	Weather	Sunny
S6	17 Feb 2015	Wind Speed (kts)	3.6
S6	17 Feb 2015	Wind Dir	N
S6	17 Feb 2015	Animal Life	None
S6	17 Feb 2015	Floatables	None
S6	17 Feb 2015	Water Color	Green
S6	17 Feb 2015	Current Direction	N
S6	17 Feb 2015	Water Temp (C)	17.1
S6	17 Feb 2015	Wave Height Low (ft)	3
S6	17 Feb 2015	High Tide (ft)	6.3
S6	17 Feb 2015	High Tide Time	723
S6	17 Feb 2015	Low Tide (ft)	-1.4
S6	17 Feb 2015	Low Tide Time	1418
S6	17 Feb 2015	Comments	Kelp; Seagrass; 1 Surfer; Water clear
S6	24 Feb 2015	Arrive Time	946
S6	24 Feb 2015	Weather	Sunny
S6	24 Feb 2015	Wind Speed (kts)	3.3
S6	24 Feb 2015	Wind Dir	NW
S6	24 Feb 2015	Animal Life	None
S6	24 Feb 2015	Floatables	None
S6	24 Feb 2015	Water Color	Green
S6	24 Feb 2015	Current Direction	NW
S6	24 Feb 2015	Water Temp (C)	17.4
S6	24 Feb 2015	Wave Height Low (ft)	3
S6	24 Feb 2015	High Tide (ft)	3.1
S6	24 Feb 2015	High Tide Time	1350
S6	24 Feb 2015	Low Tide (ft)	0.7
S6	24 Feb 2015	Low Tide Time	750
S6	24 Feb 2015	Comments	Water clear
S8	03 Feb 2015	Arrive Time	810
S8	03 Feb 2015	Weather	Sunny
S8	03 Feb 2015	Wind Speed (kts)	0.8
S8	03 Feb 2015	Wind Dir	E
S8	03 Feb 2015	Animal Life	None
S8	03 Feb 2015	Floatables	None
S8	03 Feb 2015	Water Color	Green

Station	Date	Parameter	Value
S8	03 Feb 2015	Current Direction	E
S8	03 Feb 2015	Water Temp (C)	16.4
S8	03 Feb 2015	Wave Height Low (ft)	2
S8	03 Feb 2015	High Tide (ft)	5.6
S8	03 Feb 2015	High Tide Time	818
S8	03 Feb 2015	Low Tide (ft)	1.3
S8	03 Feb 2015	Low Tide Time	220
S8	03 Feb 2015	Comments	Kelp; Water clear
S8	10 Feb 2015	Arrive Time	727
S8	10 Feb 2015	Weather	Sunny
S8	10 Feb 2015	Wind Speed (kts)	3.4
S8	10 Feb 2015	Wind Dir	E
S8	10 Feb 2015	Animal Life	3 Seagulls
S8	10 Feb 2015	Floatables	None
S8	10 Feb 2015	Water Color	Green
S8	10 Feb 2015	Current Direction	E
S8	10 Feb 2015	Water Temp (C)	14.6
S8	10 Feb 2015	Wave Height Low (ft)	4
S8	10 Feb 2015	High Tide (ft)	2.9
S8	10 Feb 2015	High Tide Time	1239
S8	10 Feb 2015	Low Tide (ft)	1.6
S8	10 Feb 2015	Low Tide Time	719
S8	10 Feb 2015	Comments	Water clear
S8	17 Feb 2015	Arrive Time	827
S8	17 Feb 2015	Weather	Overcast
S8	17 Feb 2015	Wind Speed (kts)	2.3
S8	17 Feb 2015	Wind Dir	W
S8	17 Feb 2015	Animal Life	11 Shorebirds
S8	17 Feb 2015	Floatables	None
S8	17 Feb 2015	Water Color	Green
S8	17 Feb 2015	Current Direction	W
S8	17 Feb 2015	Water Temp (C)	17.1
S8	17 Feb 2015	Wave Height Low (ft)	2
S8	17 Feb 2015	High Tide (ft)	6.3
S8	17 Feb 2015	High Tide Time	723
S8	17 Feb 2015	Low Tide (ft)	-1.4
S8	17 Feb 2015	Low Tide Time	1418
S8	17 Feb 2015	Comments	Water clear
S8	24 Feb 2015	Arrive Time	820
S8	24 Feb 2015	Weather	Sunny
S8	24 Feb 2015	Wind Speed (kts)	3.4
S8	24 Feb 2015	Wind Dir	E
S8	24 Feb 2015	Animal Life	None
S8	24 Feb 2015	Floatables	None

Station	Date	Parameter	Value
S8	24 Feb 2015	Water Color	Green
S8	24 Feb 2015	Current Direction	E
S8	24 Feb 2015	Water Temp (C)	13.4
S8	24 Feb 2015	Wave Height Low (ft)	2
S8	24 Feb 2015	High Tide (ft)	3.1
S8	24 Feb 2015	High Tide Time	1350
S8	24 Feb 2015	Low Tide (ft)	0.7
S8	24 Feb 2015	Low Tide Time	750
S8	24 Feb 2015	Comments	1 Person; Water clear
S9	03 Feb 2015	Arrive Time	748
S9	03 Feb 2015	Weather	Foggy
S9	03 Feb 2015	Wind Speed (kts)	0.7
S9	03 Feb 2015	Wind Dir	E
S9	03 Feb 2015	Animal Life	None
S9	03 Feb 2015	Floatables	None
S9	03 Feb 2015	Water Color	Green
S9	03 Feb 2015	Current Direction	E
S9	03 Feb 2015	Water Temp (C)	16.5
S9	03 Feb 2015	Wave Height Low (ft)	3
S9	03 Feb 2015	High Tide (ft)	5.6
S9	03 Feb 2015	High Tide Time	818
S9	03 Feb 2015	Low Tide (ft)	1.3
S9	03 Feb 2015	Low Tide Time	220
S9	03 Feb 2015	Comments	Water clear
S9	10 Feb 2015	Arrive Time	710
S9	10 Feb 2015	Weather	Sunny
S9	10 Feb 2015	Wind Speed (kts)	2
S9	10 Feb 2015	Wind Dir	NW
S9	10 Feb 2015	Animal Life	3 Shorebirds
S9	10 Feb 2015	Floatables	None
S9	10 Feb 2015	Water Color	Green
S9	10 Feb 2015	Current Direction	NW
S9	10 Feb 2015	Water Temp (C)	14.6
S9	10 Feb 2015	Wave Height Low (ft)	4
S9	10 Feb 2015	High Tide (ft)	2.9
S9	10 Feb 2015	High Tide Time	1239
S9	10 Feb 2015	Low Tide (ft)	1.6
S9	10 Feb 2015	Low Tide Time	719
S9	10 Feb 2015	Comments	Water clear
S9	17 Feb 2015	Arrive Time	811
S9	17 Feb 2015	Weather	Overcast
S9	17 Feb 2015	Wind Speed (kts)	1.3
S9	17 Feb 2015	Wind Dir	W
S9	17 Feb 2015	Animal Life	1 Shorebird

Station	Date	Parameter	Value
S9	17 Feb 2015	Floatables	None
S9	17 Feb 2015	Water Color	Green
S9	17 Feb 2015	Current Direction	W
S9	17 Feb 2015	Water Temp (C)	17.2
S9	17 Feb 2015	Wave Height Low (ft)	2
S9	17 Feb 2015	High Tide (ft)	6.3
S9	17 Feb 2015	High Tide Time	723
S9	17 Feb 2015	Low Tide (ft)	-1.4
S9	17 Feb 2015	Low Tide Time	1418
S9	17 Feb 2015	Comments	Kelp; Seagrass; 1 Fisherman; Water clear
S9	24 Feb 2015	Arrive Time	801
S9	24 Feb 2015	Weather	Sunny
S9	24 Feb 2015	Wind Speed (kts)	3.1
S9	24 Feb 2015	Wind Dir	S
S9	24 Feb 2015	Animal Life	None
S9	24 Feb 2015	Floatables	None
S9	24 Feb 2015	Water Color	Green
S9	24 Feb 2015	Current Direction	S
S9	24 Feb 2015	Water Temp (C)	14.2
S9	24 Feb 2015	Wave Height Low (ft)	1
S9	24 Feb 2015	High Tide (ft)	3.1
S9	24 Feb 2015	High Tide Time	1350
S9	24 Feb 2015	Low Tide (ft)	0.7
S9	24 Feb 2015	Low Tide Time	750
S9	24 Feb 2015	Comments	1 Surfer; Water clear
S10	03 Feb 2015	Arrive Time	1049
S10	03 Feb 2015	Weather	Sunny
S10	03 Feb 2015	Wind Speed (kts)	4.2
S10	03 Feb 2015	Wind Dir	NW
S10	03 Feb 2015	Animal Life	None
S10	03 Feb 2015	Floatables	None
S10	03 Feb 2015	Water Color	Green
S10	03 Feb 2015	Current Direction	NW
S10	03 Feb 2015	Water Temp (C)	16.4
S10	03 Feb 2015	Wave Height Low (ft)	2
S10	03 Feb 2015	High Tide (ft)	5.6
S10	03 Feb 2015	High Tide Time	818
S10	03 Feb 2015	Low Tide (ft)	-0.7
S10	03 Feb 2015	Low Tide Time	1513
S10	03 Feb 2015	Comments	Seagrass; Water clear; Flow at dairy mart road 1118 on 2/3/15
S10	05 Feb 2015	Arrive Time	947
S10	05 Feb 2015	Weather	Sunny
S10	05 Feb 2015	Wind Speed (kts)	4

Station	Date	Parameter	Value
S10	05 Feb 2015	Wind Dir	N
S10	05 Feb 2015	Animal Life	None
S10	05 Feb 2015	Floatables	None
S10	05 Feb 2015	Water Color	Green
S10	05 Feb 2015	Current Direction	N
S10	05 Feb 2015	Water Temp (C)	15.6
S10	05 Feb 2015	Wave Height Low (ft)	3
S10	05 Feb 2015	High Tide (ft)	5.2
S10	05 Feb 2015	High Tide Time	920
S10	05 Feb 2015	Low Tide (ft)	1.2
S10	05 Feb 2015	Low Tide Time	326
S10	05 Feb 2015	Comments	Water clear
S10	10 Feb 2015	Arrive Time	1009
S10	10 Feb 2015	Weather	Sunny
S10	10 Feb 2015	Wind Speed (kts)	7.2
S10	10 Feb 2015	Wind Dir	NW
S10	10 Feb 2015	Animal Life	None
S10	10 Feb 2015	Floatables	None
S10	10 Feb 2015	Water Color	Green
S10	10 Feb 2015	Current Direction	NW
S10	10 Feb 2015	Water Temp (C)	16
S10	10 Feb 2015	Wave Height Low (ft)	3
S10	10 Feb 2015	High Tide (ft)	2.9
S10	10 Feb 2015	High Tide Time	1239
S10	10 Feb 2015	Low Tide (ft)	1.6
S10	10 Feb 2015	Low Tide Time	719
S10	10 Feb 2015	Comments	Water clear; 1030 Dairy mart is dry
S10	17 Feb 2015	Arrive Time	1108
S10	17 Feb 2015	Weather	Sunny
S10	17 Feb 2015	Wind Speed (kts)	4.2
S10	17 Feb 2015	Wind Dir	W
S10	17 Feb 2015	Animal Life	None
S10	17 Feb 2015	Floatables	None
S10	17 Feb 2015	Water Color	Green
S10	17 Feb 2015	Current Direction	W
S10	17 Feb 2015	Water Temp (C)	17.1
S10	17 Feb 2015	Wave Height Low (ft)	3
S10	17 Feb 2015	High Tide (ft)	6.3
S10	17 Feb 2015	High Tide Time	723
S10	17 Feb 2015	Low Tide (ft)	-1.4
S10	17 Feb 2015	Low Tide Time	1418
S10	17 Feb 2015	Comments	Water clear; No flow from stormdrain
S10	24 Feb 2015	Arrive Time	1123
S10	24 Feb 2015	Weather	Sunny

Station	Date	Parameter	Value
S10	24 Feb 2015	Wind Speed (kts)	8.1
S10	24 Feb 2015	Wind Dir	NW
S10	24 Feb 2015	Animal Life	None
S10	24 Feb 2015	Floatables	None
S10	24 Feb 2015	Water Color	Green
S10	24 Feb 2015	Current Direction	NW
S10	24 Feb 2015	Water Temp (C)	16.8
S10	24 Feb 2015	Wave Height Low (ft)	3
S10	24 Feb 2015	High Tide (ft)	3.1
S10	24 Feb 2015	High Tide Time	1350
S10	24 Feb 2015	Low Tide (ft)	0.7
S10	24 Feb 2015	Low Tide Time	750
S10	24 Feb 2015	Comments	Kelp; Water clear; Dairy mart has flow 1250
S10	26 Feb 2015	Arrive Time	1009
S10	26 Feb 2015	Weather	Partly Cloudy
S10	26 Feb 2015	Wind Speed (kts)	0.5
S10	26 Feb 2015	Wind Dir	NE
S10	26 Feb 2015	Animal Life	None
S10	26 Feb 2015	Floatables	None
S10	26 Feb 2015	Water Color	Green
S10	26 Feb 2015	Current Direction	S
S10	26 Feb 2015	Water Temp (C)	16
S10	26 Feb 2015	Wave Height Low (ft)	3
S10	26 Feb 2015	High Tide (ft)	4.6
S10	26 Feb 2015	High Tide Time	313
S10	26 Feb 2015	Low Tide (ft)	0.4
S10	26 Feb 2015	Low Tide Time	1100
S10	26 Feb 2015	Comments	1 Person; Water clear
S10	27 Feb 2015	Arrive Time	1032
S10	27 Feb 2015	Weather	Sunny
S10	27 Feb 2015	Wind Speed (kts)	10.4
S10	27 Feb 2015	Wind Dir	S
S10	27 Feb 2015	Animal Life	None
S10	27 Feb 2015	Floatables	None
S10	27 Feb 2015	Water Color	Green
S10	27 Feb 2015	Current Direction	S
S10	27 Feb 2015	Water Temp (C)	15.6
S10	27 Feb 2015	Wave Height Low (ft)	3
S10	27 Feb 2015	High Tide (ft)	4.6
S10	27 Feb 2015	High Tide Time	430
S10	27 Feb 2015	Low Tide (ft)	0.1
S10	27 Feb 2015	Low Tide Time	1204
S10	27 Feb 2015	Comments	Water clear
S11	03 Feb 2015	Arrive Time	929

Station	Date	Parameter	Value
S11	03 Feb 2015	Weather	Sunny
S11	03 Feb 2015	Wind Speed (kts)	5.4
S11	03 Feb 2015	Wind Dir	N
S11	03 Feb 2015	Animal Life	None
S11	03 Feb 2015	Floatables	None
S11	03 Feb 2015	Water Color	Green
S11	03 Feb 2015	Current Direction	N
S11	03 Feb 2015	Water Temp (C)	16.6
S11	03 Feb 2015	Wave Height Low (ft)	4
S11	03 Feb 2015	High Tide (ft)	5.6
S11	03 Feb 2015	High Tide Time	818
S11	03 Feb 2015	Low Tide (ft)	-0.7
S11	03 Feb 2015	Low Tide Time	1513
S11	03 Feb 2015	Comments	Water clear
S11	10 Feb 2015	Arrive Time	900
S11	10 Feb 2015	Weather	Sunny
S11	10 Feb 2015	Wind Speed (kts)	2.9
S11	10 Feb 2015	Wind Dir	E
S11	10 Feb 2015	Animal Life	None
S11	10 Feb 2015	Floatables	None
S11	10 Feb 2015	Water Color	Green
S11	10 Feb 2015	Current Direction	E
S11	10 Feb 2015	Water Temp (C)	15.4
S11	10 Feb 2015	Wave Height Low (ft)	5
S11	10 Feb 2015	High Tide (ft)	2.9
S11	10 Feb 2015	High Tide Time	1239
S11	10 Feb 2015	Low Tide (ft)	1.6
S11	10 Feb 2015	Low Tide Time	719
S11	10 Feb 2015	Comments	Water clear
S11	17 Feb 2015	Arrive Time	955
S11	17 Feb 2015	Weather	Sunny
S11	17 Feb 2015	Wind Speed (kts)	3.4
S11	17 Feb 2015	Wind Dir	W
S11	17 Feb 2015	Animal Life	None
S11	17 Feb 2015	Floatables	None
S11	17 Feb 2015	Water Color	Green
S11	17 Feb 2015	Current Direction	W
S11	17 Feb 2015	Water Temp (C)	17.1
S11	17 Feb 2015	Wave Height Low (ft)	3
S11	17 Feb 2015	High Tide (ft)	6.3
S11	17 Feb 2015	High Tide Time	723
S11	17 Feb 2015	Low Tide (ft)	-1.4
S11	17 Feb 2015	Low Tide Time	1418
S11	17 Feb 2015	Comments	Kelp; Seagrass; Water clear



Station	Date	Parameter	Value
S11	24 Feb 2015	Arrive Time	940
S11	24 Feb 2015	Weather	Sunny
S11	24 Feb 2015	Wind Speed (kts)	3.1
S11	24 Feb 2015	Wind Dir	N
S11	24 Feb 2015	Animal Life	None
S11	24 Feb 2015	Floatables	None
S11	24 Feb 2015	Water Color	Green
S11	24 Feb 2015	Current Direction	N
S11	24 Feb 2015	Water Temp (C)	17.8
S11	24 Feb 2015	Wave Height Low (ft)	3
S11	24 Feb 2015	High Tide (ft)	3.1
S11	24 Feb 2015	High Tide Time	1350
S11	24 Feb 2015	Low Tide (ft)	0.7
S11	24 Feb 2015	Low Tide Time	750
S11	24 Feb 2015	Comments	Kelp; Water clear
S12	03 Feb 2015	Arrive Time	944
S12	03 Feb 2015	Weather	Sunny
S12	03 Feb 2015	Wind Speed (kts)	4.8
S12	03 Feb 2015	Wind Dir	N
S12	03 Feb 2015	Animal Life	None
S12	03 Feb 2015	Floatables	None
S12	03 Feb 2015	Water Color	Green
S12	03 Feb 2015	Current Direction	N
S12	03 Feb 2015	Water Temp (C)	16.6
S12	03 Feb 2015	Wave Height Low (ft)	4
S12	03 Feb 2015	High Tide (ft)	5.6
S12	03 Feb 2015	High Tide Time	818
S12	03 Feb 2015	Low Tide (ft)	-0.7
S12	03 Feb 2015	Low Tide Time	1513
S12	03 Feb 2015	Comments	Water clear
S12	10 Feb 2015	Arrive Time	916
S12	10 Feb 2015	Weather	Sunny
S12	10 Feb 2015	Wind Speed (kts)	4.8
S12	10 Feb 2015	Wind Dir	NW
S12	10 Feb 2015	Animal Life	None
S12	10 Feb 2015	Floatables	None
S12	10 Feb 2015	Water Color	Green
S12	10 Feb 2015	Current Direction	NW
S12	10 Feb 2015	Water Temp (C)	15.4
S12	10 Feb 2015	Wave Height Low (ft)	4
S12	10 Feb 2015	High Tide (ft)	2.9
S12	10 Feb 2015	High Tide Time	1239
S12	10 Feb 2015	Low Tide (ft)	1.6
S12	10 Feb 2015	Low Tide Time	719
S12	10 Feb 2015	Comments	Water clear

Station	Date	Parameter	Value
S12	17 Feb 2015	Arrive Time	1008
S12	17 Feb 2015	Weather	Sunny
S12	17 Feb 2015	Wind Speed (kts)	2.3
S12	17 Feb 2015	Wind Dir	W
S12	17 Feb 2015	Animal Life	None
S12	17 Feb 2015	Floatables	None
S12	17 Feb 2015	Water Color	Green
S12	17 Feb 2015	Current Direction	W
S12	17 Feb 2015	Water Temp (C)	16.8
S12	17 Feb 2015	Wave Height Low (ft)	4
S12	17 Feb 2015	High Tide (ft)	6.3
S12	17 Feb 2015	High Tide Time	723
S12	17 Feb 2015	Low Tide (ft)	-1.4
S12	17 Feb 2015	Low Tide Time	1418
S12	17 Feb 2015	Comments	1 Person; Water clear
S12	24 Feb 2015	Arrive Time	956
S12	24 Feb 2015	Weather	Sunny
S12	24 Feb 2015	Wind Speed (kts)	3.3
S12	24 Feb 2015	Wind Dir	NW
S12	24 Feb 2015	Animal Life	None
S12	24 Feb 2015	Floatables	None
S12	24 Feb 2015	Water Color	Green
S12	24 Feb 2015	Current Direction	NW
S12	24 Feb 2015	Water Temp (C)	17.2
S12	24 Feb 2015	Wave Height Low (ft)	2
S12	24 Feb 2015	High Tide (ft)	3.1
S12	24 Feb 2015	High Tide Time	1350
S12	24 Feb 2015	Low Tide (ft)	0.7
S12	24 Feb 2015	Low Tide Time	750
S12	24 Feb 2015	Comments	Water clear

***KELP BED STATIONS***



**Table 3.1**

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for total coliforms 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 >1000 CFU/100 mL exceed the standard.

Date	I19	I24	I25	I26	I32	I39	I40
01 Feb 2015	78	11	4	3	2	4	34
02 Feb 2015	78	11	4	3	2	4	34
03 Feb 2015	78	11	4	3	2	4	34
04 Feb 2015	127	31	20	3	2*	4	26
05 Feb 2015	127	31	20	3	2	4	26
06 Feb 2015	127	20	13	3	2	4	37
07 Feb 2015	127	20	13	3	2	4	37
08 Feb 2015	127	20	13	3	2	4	37
09 Feb 2015	153*	26	14	3*	2*	3*	59
10 Feb 2015	153*	26	14	3*	2*	3*	59
11 Feb 2015	153*	26	14	3*	2*	3*	59
12 Feb 2015	102	25	10	3	3	3	47
13 Feb 2015	102	25	10	3	3	3	47
14 Feb 2015	67*	24	13	3*	3*	3*	29
15 Feb 2015	67*	24	13	3*	3*	3*	29
16 Feb 2015	67*	24	13	3*	3*	3*	29
17 Feb 2015	67*	24	13	3*	3*	3*	29
18 Feb 2015	33	16	10	3	3	3	19
19 Feb 2015	31*	16	10	3*	3*	3*	29
20 Feb 2015	31*	16	10	3*	3*	3*	29
21 Feb 2015	31*	16	10	3*	3*	3*	29
22 Feb 2015	18	11	8	3	3	3	19
23 Feb 2015	18	11	8	3	3	3	19
24 Feb 2015	18	11	8	3	3	3	19
25 Feb 2015	18	11	8	3	3	3	19
26 Feb 2015	18	11	8	3	3	3	19
27 Feb 2015	40	31	8	2	3	3	37
28 Feb 2015	40	31	8	2	3	3	37

\* Geometric mean calculated using an n<5

**Table 3.2**

Summary of compliance with the 2012 Ocean Plan's 30-day Geometric Mean standard for fecal coliform 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 2015	13	2	2	2	2	2	9
02 Feb 2015	13	2	2	2	2	2	9
03 Feb 2015	13	2	2	2	2	2	9
04 Feb 2015	17	6	7	2	2*	2	8
05 Feb 2015	17	6	7	2	2	2	8
06 Feb 2015	17	5	6	2	2	2	8
07 Feb 2015	17	5	6	2	2	2	8
08 Feb 2015	17	5	6	2	2	2	8
09 Feb 2015	20*	6	6	2*	2*	2*	10
10 Feb 2015	20*	6	6	2*	2*	2*	10
11 Feb 2015	20*	6	6	2*	2*	2*	10
12 Feb 2015	13	5	5	2	2	2	8
13 Feb 2015	13	5	5	2	2	2	8
14 Feb 2015	9*	6	6	2*	2*	2*	4
15 Feb 2015	9*	6	6	2*	2*	2*	4
16 Feb 2015	9*	6	6	2*	2*	2*	4
17 Feb 2015	9*	6	6	2*	2*	2*	4
18 Feb 2015	7	5	5	2	2	2	4
19 Feb 2015	6*	6	6	2*	2*	2*	4
20 Feb 2015	6*	6	6	2*	2*	2*	4
21 Feb 2015	6*	6	6	2*	2*	2*	4
22 Feb 2015	5	5	5	2	2	2	4
23 Feb 2015	5	5	5	2	2	2	4
24 Feb 2015	5	5	5	2	2	2	4
25 Feb 2015	5	5	5	2	2	2	4
26 Feb 2015	5	5	5	2	2	2	4
27 Feb 2015	8	9	5	2	2	2	7
28 Feb 2015	8	9	5	2	2	2	7

\* Geometric mean calculated using an n<5

**Table 3.3**

Summary of compliance with the 2012 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 2015	5	2	2	2	2	3	7
02 Feb 2015	5	2	2	2	2	3	7
03 Feb 2015	5	2	2	2	2	3	7
04 Feb 2015	8	5	5	2	2*	3	5
05 Feb 2015	8	5	5	2	2	3	5
06 Feb 2015	6	5	5	2	2	3	6
07 Feb 2015	6	5	5	2	2	3	6
08 Feb 2015	6	5	5	2	2	3	6
09 Feb 2015	6	5	5	2*	2*	3*	8*
10 Feb 2015	6	5	5	2*	2*	3*	8*
11 Feb 2015	6	5	5	2*	2*	3*	8*
12 Feb 2015	5	5	5	2	2	3	6
13 Feb 2015	5	5	5	2	2	3	6
14 Feb 2015	6	5	5	2*	2*	2*	4*
15 Feb 2015	6	5	5	2*	2*	2*	4*
16 Feb 2015	6	5	5	2*	2*	2*	4*
17 Feb 2015	6	5	5	2*	2*	2*	4*
18 Feb 2015	5	5	5	2	2	2	4
19 Feb 2015	4	5	5	2*	2*	2*	4*
20 Feb 2015	4	5	5	2*	2*	2*	4*
21 Feb 2015	4	5	5	2*	2*	2*	4*
22 Feb 2015	4	4	5	2	2	2	4
23 Feb 2015	4	4	5	2	2	2	4
24 Feb 2015	4	4	5	2	2	2	4
25 Feb 2015	4	4	5	2	2	2	4
26 Feb 2015	4	4	5	2	2	2	4
27 Feb 2015	4	4	5	2	2	2	4
28 Feb 2015	4	4	5	2	2	2	4

\* Geometric mean calculated using an n<5

**Table 3.4**

Summary of compliance at the SBOO kelp stations with the 2012 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.

<b>Date</b>	<b>I19</b>	<b>I24</b>	<b>I25</b>	<b>I26</b>	<b>I32</b>	<b>I39</b>	<b>I40</b>
04 Feb 2015	IC	E	E	IC	ns	IC	IC
05 Feb 2015	ns	ns	ns	ns	IC	ns	ns
06 Feb 2015	ns	IC	IC	ns	ns	ns	IC
12 Feb 2015	IC	IC	IC	IC	IC	IC	IC
18 Feb 2015	IC	IC	IC	IC	IC	IC	IC
22 Feb 2015	IC	IC	IC	IC	IC	IC	IC
27 Feb 2015	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 2012 Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria, which states that fecal coliform density shall not exceed 400 CFU/100 mL.

<b>Date</b>	<b>I19</b>	<b>I24</b>	<b>I25</b>	<b>I26</b>	<b>I32</b>	<b>I39</b>	<b>I40</b>
04 Feb 2015	IC	E	E	IC	ns	IC	IC
05 Feb 2015	ns	ns	ns	ns	IC	ns	ns
06 Feb 2015	ns	IC	IC	ns	ns	ns	IC
12 Feb 2015	IC	IC	IC	IC	IC	IC	IC
18 Feb 2015	IC	IC	IC	IC	IC	IC	IC
22 Feb 2015	IC	IC	IC	IC	IC	IC	IC
27 Feb 2015	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 2012 Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria, which states that *Enterococcus* density shall not exceed 104 CFU/100 mL.

<b>Date</b>	<b>I19</b>	<b>I24</b>	<b>I25</b>	<b>I26</b>	<b>I32</b>	<b>I39</b>	<b>I40</b>
04 Feb 2015	E	E	E	IC	ns	IC	IC
05 Feb 2015	ns	ns	ns	ns	IC	ns	ns
06 Feb 2015	IC	IC	IC	ns	ns	ns	ns
12 Feb 2015	IC	IC	IC	IC	IC	IC	IC
18 Feb 2015	IC	IC	IC	IC	IC	IC	IC
22 Feb 2015	IC	IC	IC	IC	IC	IC	IC
27 Feb 2015	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 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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.

<b>Date</b>	<b>I19</b>	<b>I24</b>	<b>I25</b>	<b>I26</b>	<b>I32</b>	<b>I39</b>	<b>I40</b>
04 Feb 2015	IC	IC	IC	IC	ns	IC	E
05 Feb 2015	ns	ns	ns	ns	IC	ns	ns
06 Feb 2015	ns	IC	IC	ns	ns	ns	IC
12 Feb 2015	IC	IC	IC	IC	IC	IC	IC
18 Feb 2015	IC	IC	IC	IC	IC	IC	IC
22 Feb 2015	IC	IC	IC	IC	IC	IC	IC
27 Feb 2015	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) 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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I19	04 Feb 2015	1013	2	880	74	16e	0.08	16.4	68.43	7.9	33.41	8.2	<0.2	<0.2
I19	04 Feb 2015	1013	6	2800e	200e	84	0.07	16.3	63.76	7.8	33.41	8.2	ns	2.6
I19	04 Feb 2015	1013	11	5000	60e	120	0.01	16.1	63.30	7.5	33.41	8.2	ns	4.5
I19	06 Feb 2015	1301	11	ns	ns	<2	ns	ns	ns	ns	ns	ns	ns	ns
I19	12 Feb 2015	1101	2	<20	<2	2e	0.10	13.1	28.43	7.0	33.32	8.1	ns	ns
I19	12 Feb 2015	1101	6	<20	<2	<2	0.10	13.0	29.25	6.9	33.32	8.1	ns	ns
I19	12 Feb 2015	1101	11	<20	4e	<2	0.20	12.7	37.84	6.4	33.31	8.1	ns	ns
I19	18 Feb 2015	1048	2	<2	<2	<2	1.00	16.1	87.23	8.2	33.34	8.2	ns	ns
I19	18 Feb 2015	1048	6	<2	<2	<2	1.00	15.2	86.04	8.1	33.30	8.2	ns	ns
I19	18 Feb 2015	1048	11	<2	<2	2e	1.00	14.7	78.40	7.8	33.30	8.2	ns	ns
I19	22 Feb 2015	1045	2	<2	<2	<2	1.00	16.4	83.07	8.1	33.35	8.2	ns	ns
I19	22 Feb 2015	1045	6	<2	<2	<2	1.00	16.3	82.44	8.1	33.35	8.2	ns	ns
I19	22 Feb 2015	1045	11	<2	2e	<2	1.00	15.6	69.83	7.7	33.31	8.2	ns	ns
I19	27 Feb 2015	824	2	80e	6e	<2	0.07	16.7	86.79	7.8	33.35	8.2	ns	ns
I19	27 Feb 2015	824	6	840	40	12e	0.05	16.4	76.50	7.8	33.30	8.2	ns	ns
I19	27 Feb 2015	824	11	340e	22e	2e	0.06	16.3	76.26	7.7	33.32	8.2	ns	ns
I24	04 Feb 2015	937	2	20000e	1800e	500	0.09	16.5	69.18	7.8	33.35	8.2	<0.2	<0.2
I24	04 Feb 2015	937	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	2.8*
I24	04 Feb 2015	937	6	800e	80	22e	0.10	16.5	68.13	7.8	33.39	8.2	ns	2.7
I24	04 Feb 2015	937	11	120e	16e	6e	0.13	16.2	47.73	7.0	33.44	8.1	ns	9.9
I24	06 Feb 2015	1314	2	2e	<2	<2	1.00	ns	ns	ns	ns	ns	ns	ns
I24	12 Feb 2015	1123	2	<20	2e	2e	0.10	14.0	30.92	7.5	33.32	8.1	ns	ns
I24	12 Feb 2015	1123	6	<20	<2	<2	0.10	13.9	30.37	7.4	33.32	8.1	ns	ns
I24	12 Feb 2015	1123	11	<20	<2	<2	0.10	13.9	28.08	7.3	33.32	8.1	ns	ns
I24	18 Feb 2015	1113	2	<2	<2	<2	1.00	16.3	86.19	8.1	33.35	8.2	ns	ns
I24	18 Feb 2015	1113	6	<2	<2	<2	1.00	16.0	87.34	8.1	33.34	8.2	ns	ns
I24	18 Feb 2015	1113	11	<2	<2	<2	1.00	15.4	85.22	8.1	33.31	8.2	ns	ns
I24	22 Feb 2015	1109	2	<2	<2	<2	1.00	16.4	85.66	7.9	33.35	8.2	ns	ns
I24	22 Feb 2015	1109	6	<2	<2	2e	1.00	16.4	86.44	7.9	33.35	8.2	ns	ns
I24	22 Feb 2015	1109	11	2e	<2	<2	1.00	15.5	85.20	7.5	33.32	8.1	ns	ns
I24	27 Feb 2015	845	2	1000	86	4e	0.09	16.5	84.83	7.9	33.29	8.2	ns	ns
I24	27 Feb 2015	845	6	1200e	70	2e	0.06	16.5	86.01	7.9	33.31	8.2	ns	ns
I24	27 Feb 2015	845	11	4e	2e	<2	0.50	16.2	89.27	7.8	33.33	8.2	ns	ns
I25	04 Feb 2015	925	2	>16000	1200e	760	0.07	16.5	68.50	7.8	33.32	8.2	<0.2	2.8

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	04 Feb 2015	925	6	1800e	66	24e	0.04	16.5	78.36	7.8	33.42	8.2	ns	<0.2
I25	04 Feb 2015	925	9	20e	8e	<2	0.40	16.3	76.74	7.2	33.41	8.2	ns	4.6
I25	06 Feb 2015	1318	2	2e	<2	<2	1.00	ns	ns	ns	ns	ns	ns	ns
I25	12 Feb 2015	1134	2	<2	<2	<2	1.00	14.1	56.34	6.9	33.32	8.1	ns	ns
I25	12 Feb 2015	1134	6	<2	<2	<2	1.00	13.9	58.10	6.8	33.31	8.1	ns	ns
I25	12 Feb 2015	1134	9	2e	<2	<2	1.00	13.5	58.91	6.5	33.30	8.1	ns	ns
I25	18 Feb 2015	1124	2	<2	<2	<2	1.00	16.2	87.61	7.7	33.39	8.2	ns	ns
I25	18 Feb 2015	1124	6	<2	<2	<2	1.00	15.1	86.84	7.9	33.34	8.2	ns	ns
I25	18 Feb 2015	1124	9	<2	<2	<2	1.00	15.0	84.10	7.8	33.31	8.2	ns	ns
I25	22 Feb 2015	1119	2	<2	<2	<2	1.00	16.4	85.64	7.9	33.35	8.2	ns	ns
I25	22 Feb 2015	1119	6	<2	<2	<2	1.00	16.4	86.44	7.9	33.35	8.2	ns	ns
I25	22 Feb 2015	1119	9	2e	<2	<2	1.00	15.8	87.07	7.6	33.30	8.2	ns	ns
I25	27 Feb 2015	852	2	<2	<2	<2	1.00	16.5	90.06	7.8	33.36	8.2	ns	ns
I25	27 Feb 2015	852	6	2e	<2	<2	1.00	16.2	90.84	7.7	33.32	8.2	ns	ns
I25	27 Feb 2015	852	9	2e	<2	<2	1.00	15.9	88.12	8.0	33.31	8.2	ns	ns
I26	04 Feb 2015	907	2	<2	<2	<2	1.00	16.5	79.29	7.7	33.42	8.2	<0.2	<0.2
I26	04 Feb 2015	907	6	2e	<2	<2	1.00	16.5	79.01	7.7	33.42	8.2	ns	<0.2
I26	04 Feb 2015	907	9	<2	<2	<2	1.00	16.5	79.13	7.5	33.41	8.2	ns	4.1
I26	12 Feb 2015	1147	2	<2	<2	<2	1.00	14.3	61.02	7.3	33.33	8.2	ns	ns
I26	12 Feb 2015	1147	6	<2	<2	<2	1.00	14.2	62.86	7.3	33.32	8.1	ns	ns
I26	12 Feb 2015	1147	9	<2	<2	<2	1.00	13.1	64.89	6.6	33.30	8.1	ns	ns
I26	18 Feb 2015	1141	2	<2	<2	<2	1.00	16.2	86.99	8.2	33.35	8.2	ns	ns
I26	18 Feb 2015	1141	6	<2	<2	<2	1.00	14.9	87.93	8.0	33.30	8.2	ns	ns
I26	18 Feb 2015	1141	9	<2	<2	<2	1.00	14.6	85.88	7.9	33.30	8.2	ns	ns
I26	22 Feb 2015	1133	2	<2	<2	<2	1.00	16.4	87.90	8.0	33.35	8.2	ns	ns
I26	22 Feb 2015	1133	6	<2	<2	<2	1.00	16.3	87.75	8.0	33.34	8.2	ns	ns
I26	22 Feb 2015	1133	9	<2	<2	<2	1.00	15.5	86.72	7.8	33.32	8.2	ns	ns
I26	27 Feb 2015	901	2	<2	<2	<2	1.00	16.4	88.95	7.7	33.35	8.2	ns	ns
I26	27 Feb 2015	901	6	2e	2e	<2	1.00	15.5	89.57	7.7	33.30	8.2	ns	ns
I26	27 Feb 2015	901	9	2e	<2	2e	1.00	15.5	86.05	7.6	33.30	8.1	ns	ns
I32	05 Feb 2015	1007	2	<2	<2	<2	1.00	16.4	63.90	7.5	33.41	8.2	<0.2	2.9
I32	05 Feb 2015	1007	6	<2	<2	2e	1.00	16.1	54.52	7.2	33.38	8.2	ns	5.6
I32	05 Feb 2015	1007	9	<2	<2	<2	1.00	15.9	48.69	7.1	33.38	8.2	ns	6.1
I32	12 Feb 2015	1200	2	2e	<2	<2	1.00	13.7	40.83	6.9	33.31	8.1	ns	ns
I32	12 Feb 2015	1200	6	<2	<2	<2	1.00	12.9	51.41	6.5	33.29	8.1	ns	ns
I32	12 Feb 2015	1200	9	<20	<2	<2	0.10	12.9	41.46	6.4	33.29	8.1	ns	ns
I32	18 Feb 2015	1156	2	<2	<2	<2	1.00	16.2	86.48	8.3	33.35	8.2	ns	ns
I32	18 Feb 2015	1156	6	<2	<2	<2	1.00	15.3	87.24	8.2	33.33	8.2	ns	ns
I32	18 Feb 2015	1156	9	<2	<2	<2	1.00	14.8	79.93	7.9	33.31	8.2	ns	ns
I32	22 Feb 2015	1146	2	<2	<2	<2	1.00	16.4	85.14	8.1	33.35	8.2	ns	ns
I32	22 Feb 2015	1146	6	<2	<2	<2	1.00	16.4	84.24	8.0	33.35	8.2	ns	ns
I32	22 Feb 2015	1146	9	<2	<2	2e	1.00	15.9	79.50	7.8	33.32	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I32	27 Feb 2015	913	2	4e	4e	<2	1.00	16.4	82.38	7.8	33.32	8.2	ns	ns
I32	27 Feb 2015	913	6	4e	4e	<2	1.00	16.3	78.32	7.9	33.32	8.2	ns	ns
I32	27 Feb 2015	913	9	<2	<2	<2	1.00	15.5	71.71	7.7	33.31	8.1	ns	ns
I39	04 Feb 2015	850	2	<2	<2	<2	1.00	16.5	85.06	7.8	33.40	8.2	<0.2	<0.2
I39	04 Feb 2015	850	12	<20	<2	<2	0.10	15.6	84.93	7.6	33.35	8.2	ns	<0.2
I39	04 Feb 2015	850	18	<2	<2	<2	1.00	14.9	75.65	7.2	33.34	8.1	ns	3.3
I39	12 Feb 2015	1035	2	<2	<2	<2	1.00	15.0	80.80	7.5	33.35	8.2	ns	ns
I39	12 Feb 2015	1035	12	<2	<2	<2	1.00	12.7	72.84	6.3	33.30	8.1	ns	ns
I39	12 Feb 2015	1035	18	10e	<2	2e	0.20	12.2	58.85	6.2	33.33	8.1	ns	ns
I39	18 Feb 2015	1025	2	<2	<2	<2	1.00	16.3	85.86	7.8	33.35	8.2	ns	ns
I39	18 Feb 2015	1025	12	<2	<2	<2	1.00	16.1	87.71	7.9	33.35	8.2	ns	ns
I39	18 Feb 2015	1025	18	<2	<2	<2	1.00	14.5	88.72	7.5	33.30	8.2	ns	ns
I39	22 Feb 2015	1025	2	2e	2e	<2	1.00	16.7	88.88	7.9	33.37	8.2	ns	ns
I39	22 Feb 2015	1025	12	<2	<2	<2	1.00	16.3	87.66	8.0	33.35	8.2	ns	ns
I39	22 Feb 2015	1025	18	<2	<2	<2	1.00	14.8	87.77	7.5	33.29	8.1	ns	ns
I39	27 Feb 2015	805	2	<2	<2	<2	1.00	16.2	89.98	7.9	33.34	8.1	ns	ns
I39	27 Feb 2015	805	12	<2	<2	<2	1.00	14.2	87.84	7.6	33.23	8.1	ns	ns
I39	27 Feb 2015	805	18	<2	<2	<2	1.00	14.0	85.94	7.4	33.24	8.1	ns	ns
I40	04 Feb 2015	956	2	1100	200e	66	0.18	16.4	68.15	8.0	33.38	8.2	<0.2	2.7
I40	04 Feb 2015	956	6	1800e	100	38e	0.06	16.3	67.73	7.7	33.43	8.2	ns	<0.2
I40	04 Feb 2015	956	9	240e	10e	4e	0.04	16.2	60.88	7.3	33.43	8.2	ns	3.8
I40	06 Feb 2015	1309	2	88	<2	ns	0.02	ns	ns	ns	ns	ns	ns	ns
I40	12 Feb 2015	1114	2	<2	<2	<2	1.00	13.5	33.49	6.9	33.32	8.1	ns	ns
I40	12 Feb 2015	1114	6	<20	2e	<2	0.10	13.4	36.15	6.7	33.32	8.1	ns	ns
I40	12 Feb 2015	1114	9	<20	<2	2e	0.10	12.8	36.72	6.4	33.32	8.1	ns	ns
I40	18 Feb 2015	1102	2	<2	<2	<2	1.00	16.1	80.57	8.1	33.34	8.2	ns	ns
I40	18 Feb 2015	1102	6	<2	<2	<2	1.00	16.0	83.45	8.1	33.34	8.2	ns	ns
I40	18 Feb 2015	1102	9	<2	<2	<2	1.00	15.9	85.54	8.2	33.34	8.2	ns	ns
I40	22 Feb 2015	1059	2	<2	<2	<2	1.00	16.4	77.58	8.1	33.35	8.2	ns	ns
I40	22 Feb 2015	1059	6	<2	<2	2e	1.00	16.4	77.85	8.2	33.35	8.2	ns	ns
I40	22 Feb 2015	1059	9	<2	<2	2e	1.00	16.2	76.13	7.7	33.34	8.2	ns	ns
I40	27 Feb 2015	835	2	400e	120	6e	0.30	16.4	73.02	8.0	33.20	8.2	ns	ns
I40	27 Feb 2015	835	6	560	46	4e	0.08	16.4	70.36	7.7	33.27	8.2	ns	ns
I40	27 Feb 2015	835	9	440	30e	<2	0.07	16.3	62.25	7.5	33.28	8.2	ns	ns

ns = not sampled

## Comments

<b>Station</b>	<b>Date</b>	<b>Depth</b>	<b>Parameter</b>	<b>Comments</b>
I19	06 Feb 2015	11		Resample
I24	06 Feb 2015	2		Resample
I25	06 Feb 2015	2		Resample
I40	06 Feb 2015	2		Resample

**Table 3.9**

Summary of visual observations made during the month at the SBOO kelp stations for each sample date.

Station	Date	Parameter	Value
I19	04 Feb 2015	Depth (m)	12
I19	04 Feb 2015	Arrive Time	1013
I19	04 Feb 2015	Depart Time	1022
I19	04 Feb 2015	Air Temp (C)	14
I19	04 Feb 2015	Weather	Haze
I19	04 Feb 2015	Visibility (mi)	10
I19	04 Feb 2015	Wind Speed (kts)	2
I19	04 Feb 2015	Wind Dir	SE
I19	04 Feb 2015	Water Color	Green
I19	04 Feb 2015	Wave Ht Low (ft)	3
I19	04 Feb 2015	Wave Period (sec)	9
I19	04 Feb 2015	Sea State	Calm
I19	04 Feb 2015	High Tide (ft)	5.48
I19	04 Feb 2015	High Tide Time	849
I19	04 Feb 2015	Low Tide (ft)	-0.51
I19	04 Feb 2015	Low Tide Time	1540
I19	04 Feb 2015	Comments	
I19	06 Feb 2015	Depth (m)	11
I19	06 Feb 2015	Arrive Time	1301
I19	06 Feb 2015	Depart Time	1302
I19	06 Feb 2015	Air Temp (C)	17
I19	06 Feb 2015	Weather	Fog
I19	06 Feb 2015	Visibility (mi)	2
I19	06 Feb 2015	Wind Speed (kts)	6
I19	06 Feb 2015	Wind Dir	W
I19	06 Feb 2015	Water Color	Green
I19	06 Feb 2015	Wave Ht Low (ft)	2
I19	06 Feb 2015	Wave Period (sec)	9
I19	06 Feb 2015	Sea State	Calm
I19	06 Feb 2015	High Tide (ft)	4.91
I19	06 Feb 2015	High Tide Time	951
I19	06 Feb 2015	Low Tide (ft)	1.24
I19	06 Feb 2015	Low Tide Time	359
I19	06 Feb 2015	Comments	Resample from ITP Outfall sampled on February 04 2015 I19 -11m
I19	12 Feb 2015	Depth (m)	11
I19	12 Feb 2015	Arrive Time	1101
I19	12 Feb 2015	Depart Time	1108
I19	12 Feb 2015	Air Temp (C)	26
I19	12 Feb 2015	Weather	Clear



Station	Date	Parameter	Value
I19	12 Feb 2015	Visibility (mi)	14
I19	12 Feb 2015	Wind Speed (kts)	16
I19	12 Feb 2015	Wind Dir	SW
I19	12 Feb 2015	Water Color	Brownish-Green
I19	12 Feb 2015	Wave Ht Low (ft)	4
I19	12 Feb 2015	Wave Period (sec)	13
I19	12 Feb 2015	Sea State	Heavy chop
I19	12 Feb 2015	High Tide (ft)	2.57
I19	12 Feb 2015	High Tide Time	1635
I19	12 Feb 2015	Low Tide (ft)	1.08
I19	12 Feb 2015	Low Tide Time	1026
I19	12 Feb 2015	Comments	none
I19	18 Feb 2015	Depth (m)	11
I19	18 Feb 2015	Arrive Time	1048
I19	18 Feb 2015	Depart Time	1054
I19	18 Feb 2015	Air Temp (C)	16
I19	18 Feb 2015	Weather	Haze
I19	18 Feb 2015	Visibility (mi)	9
I19	18 Feb 2015	Wind Speed (kts)	3
I19	18 Feb 2015	Wind Dir	SW
I19	18 Feb 2015	Water Color	Greenish-Blue
I19	18 Feb 2015	Wave Ht Low (ft)	4
I19	18 Feb 2015	Wave Period (sec)	13
I19	18 Feb 2015	Sea State	Calm
I19	18 Feb 2015	High Tide (ft)	6.36
I19	18 Feb 2015	High Tide Time	808
I19	18 Feb 2015	Low Tide (ft)	-1.46
I19	18 Feb 2015	Low Tide Time	1456
I19	18 Feb 2015	Comments	
I19	22 Feb 2015	Depth (m)	12
I19	22 Feb 2015	Arrive Time	1045
I19	22 Feb 2015	Depart Time	1053
I19	22 Feb 2015	Air Temp (C)	16
I19	22 Feb 2015	Weather	Overcast
I19	22 Feb 2015	Visibility (mi)	5
I19	22 Feb 2015	Wind Speed (kts)	10
I19	22 Feb 2015	Wind Dir	SE
I19	22 Feb 2015	Water Color	Green
I19	22 Feb 2015	Wave Ht Low (ft)	3
I19	22 Feb 2015	Wave Period (sec)	13
I19	22 Feb 2015	Sea State	Light chop
I19	22 Feb 2015	High Tide (ft)	4.45
I19	22 Feb 2015	High Tide Time	1121
I19	22 Feb 2015	Low Tide (ft)	0.28
I19	22 Feb 2015	Low Tide Time	525

Station	Date	Parameter	Value
I19	22 Feb 2015	Comments	Seal on station
I19	27 Feb 2015	Depth (m)	11
I19	27 Feb 2015	Arrive Time	824
I19	27 Feb 2015	Depart Time	829
I19	27 Feb 2015	Air Temp (C)	16
I19	27 Feb 2015	Weather	Cloudy
I19	27 Feb 2015	Visibility (mi)	9
I19	27 Feb 2015	Wind Speed (kts)	7
I19	27 Feb 2015	Wind Dir	W
I19	27 Feb 2015	Water Color	Bluish-Green
I19	27 Feb 2015	Wave Ht Low (ft)	4
I19	27 Feb 2015	Wave Period (sec)	11
I19	27 Feb 2015	Sea State	Light chop
I19	27 Feb 2015	High Tide (ft)	4.63
I19	27 Feb 2015	High Tide Time	430
I19	27 Feb 2015	Low Tide (ft)	0.08
I19	27 Feb 2015	Low Tide Time	1204
I19	27 Feb 2015	Comments	
I24	04 Feb 2015	Depth (m)	11
I24	04 Feb 2015	Arrive Time	937
I24	04 Feb 2015	Depart Time	952
I24	04 Feb 2015	Air Temp (C)	14
I24	04 Feb 2015	Weather	Haze
I24	04 Feb 2015	Visibility (mi)	8
I24	04 Feb 2015	Wind Speed (kts)	4
I24	04 Feb 2015	Wind Dir	W
I24	04 Feb 2015	Water Color	Green
I24	04 Feb 2015	Wave Ht Low (ft)	3
I24	04 Feb 2015	Wave Period (sec)	9
I24	04 Feb 2015	Sea State	Calm
I24	04 Feb 2015	High Tide (ft)	5.48
I24	04 Feb 2015	High Tide Time	849
I24	04 Feb 2015	Low Tide (ft)	-0.51
I24	04 Feb 2015	Low Tide Time	1540
I24	04 Feb 2015	Comments	
I24	06 Feb 2015	Depth (m)	11
I24	06 Feb 2015	Arrive Time	1314
I24	06 Feb 2015	Depart Time	1315
I24	06 Feb 2015	Air Temp (C)	17
I24	06 Feb 2015	Weather	Fog
I24	06 Feb 2015	Visibility (mi)	2
I24	06 Feb 2015	Wind Speed (kts)	5
I24	06 Feb 2015	Wind Dir	NE
I24	06 Feb 2015	Water Color	Green

Station	Date	Parameter	Value
I24	06 Feb 2015	Wave Ht Low (ft)	2
I24	06 Feb 2015	Wave Period (sec)	9
I24	06 Feb 2015	Sea State	Calm
I24	06 Feb 2015	High Tide (ft)	4.91
I24	06 Feb 2015	High Tide Time	951
I24	06 Feb 2015	Low Tide (ft)	1.24
I24	06 Feb 2015	Low Tide Time	359
I24	06 Feb 2015	Comments	Resample from ITP Outfall sampled on February 04 2015 I24 2m
I24	12 Feb 2015	Depth (m)	11
I24	12 Feb 2015	Arrive Time	1123
I24	12 Feb 2015	Depart Time	1131
I24	12 Feb 2015	Air Temp (C)	24
I24	12 Feb 2015	Weather	Clear
I24	12 Feb 2015	Visibility (mi)	14
I24	12 Feb 2015	Wind Speed (kts)	18
I24	12 Feb 2015	Wind Dir	NE
I24	12 Feb 2015	Water Color	Greenish-Brown
I24	12 Feb 2015	Wave Ht Low (ft)	4
I24	12 Feb 2015	Wave Period (sec)	13
I24	12 Feb 2015	Sea State	Heavy chop
I24	12 Feb 2015	High Tide (ft)	2.57
I24	12 Feb 2015	High Tide Time	1635
I24	12 Feb 2015	Low Tide (ft)	1.08
I24	12 Feb 2015	Low Tide Time	1026
I24	12 Feb 2015	Comments	none
I24	18 Feb 2015	Depth (m)	11
I24	18 Feb 2015	Arrive Time	1113
I24	18 Feb 2015	Depart Time	1120
I24	18 Feb 2015	Air Temp (C)	16
I24	18 Feb 2015	Weather	Haze
I24	18 Feb 2015	Visibility (mi)	9
I24	18 Feb 2015	Wind Speed (kts)	8
I24	18 Feb 2015	Wind Dir	N
I24	18 Feb 2015	Water Color	Greenish-Brown
I24	18 Feb 2015	Wave Ht Low (ft)	4
I24	18 Feb 2015	Wave Period (sec)	13
I24	18 Feb 2015	Sea State	Calm
I24	18 Feb 2015	High Tide (ft)	6.36
I24	18 Feb 2015	High Tide Time	808
I24	18 Feb 2015	Low Tide (ft)	-1.46
I24	18 Feb 2015	Low Tide Time	1456
I24	18 Feb 2015	Comments	
I24	22 Feb 2015	Depth (m)	11

Station	Date	Parameter	Value
I24	22 Feb 2015	Arrive Time	1109
I24	22 Feb 2015	Depart Time	1115
I24	22 Feb 2015	Air Temp (C)	16
I24	22 Feb 2015	Weather	Overcast
I24	22 Feb 2015	Visibility (mi)	5
I24	22 Feb 2015	Wind Speed (kts)	8
I24	22 Feb 2015	Wind Dir	S
I24	22 Feb 2015	Water Color	Green
I24	22 Feb 2015	Wave Ht Low (ft)	3
I24	22 Feb 2015	Wave Period (sec)	13
I24	22 Feb 2015	Sea State	Light chop
I24	22 Feb 2015	High Tide (ft)	4.45
I24	22 Feb 2015	High Tide Time	1121
I24	22 Feb 2015	Low Tide (ft)	0.28
I24	22 Feb 2015	Low Tide Time	525
I24	22 Feb 2015	Comments	
I24	27 Feb 2015	Depth (m)	11
I24	27 Feb 2015	Arrive Time	845
I24	27 Feb 2015	Depart Time	849
I24	27 Feb 2015	Air Temp (C)	16
I24	27 Feb 2015	Weather	Cloudy
I24	27 Feb 2015	Visibility (mi)	9
I24	27 Feb 2015	Wind Speed (kts)	9
I24	27 Feb 2015	Wind Dir	SW
I24	27 Feb 2015	Water Color	Bluish-Green
I24	27 Feb 2015	Wave Ht Low (ft)	4
I24	27 Feb 2015	Wave Period (sec)	11
I24	27 Feb 2015	Sea State	Light chop
I24	27 Feb 2015	High Tide (ft)	4.63
I24	27 Feb 2015	High Tide Time	430
I24	27 Feb 2015	Low Tide (ft)	0.08
I24	27 Feb 2015	Low Tide Time	1204
I24	27 Feb 2015	Comments	
I25	04 Feb 2015	Depth (m)	10
I25	04 Feb 2015	Arrive Time	925
I25	04 Feb 2015	Depart Time	932
I25	04 Feb 2015	Air Temp (C)	13
I25	04 Feb 2015	Weather	Haze
I25	04 Feb 2015	Visibility (mi)	8
I25	04 Feb 2015	Wind Speed (kts)	4
I25	04 Feb 2015	Wind Dir	W
I25	04 Feb 2015	Water Color	Greenish-Blue
I25	04 Feb 2015	Wave Ht Low (ft)	3
I25	04 Feb 2015	Wave Period (sec)	9
I25	04 Feb 2015	Sea State	Calm

Station	Date	Parameter	Value
I25	04 Feb 2015	High Tide (ft)	5.48
I25	04 Feb 2015	High Tide Time	849
I25	04 Feb 2015	Low Tide (ft)	-0.51
I25	04 Feb 2015	Low Tide Time	1540
I25	04 Feb 2015	Comments	
I25	06 Feb 2015	Depth (m)	9
I25	06 Feb 2015	Arrive Time	1318
I25	06 Feb 2015	Depart Time	1318
I25	06 Feb 2015	Air Temp (C)	17
I25	06 Feb 2015	Weather	Fog
I25	06 Feb 2015	Visibility (mi)	2
I25	06 Feb 2015	Wind Speed (kts)	7
I25	06 Feb 2015	Wind Dir	SW
I25	06 Feb 2015	Water Color	Green
I25	06 Feb 2015	Wave Ht Low (ft)	2
I25	06 Feb 2015	Wave Period (sec)	9
I25	06 Feb 2015	Sea State	Calm
I25	06 Feb 2015	High Tide (ft)	4.91
I25	06 Feb 2015	High Tide Time	951
I25	06 Feb 2015	Low Tide (ft)	1.24
I25	06 Feb 2015	Low Tide Time	359
I25	06 Feb 2015	Comments	Resample from ITP Outfall sampled on February 04 2015 I25 -2m
I25	12 Feb 2015	Depth (m)	9
I25	12 Feb 2015	Arrive Time	1134
I25	12 Feb 2015	Depart Time	1141
I25	12 Feb 2015	Air Temp (C)	24
I25	12 Feb 2015	Weather	Clear
I25	12 Feb 2015	Visibility (mi)	14
I25	12 Feb 2015	Wind Speed (kts)	15
I25	12 Feb 2015	Wind Dir	NW
I25	12 Feb 2015	Water Color	Greenish-Brown
I25	12 Feb 2015	Wave Ht Low (ft)	4
I25	12 Feb 2015	Wave Period (sec)	13
I25	12 Feb 2015	Sea State	Heavy chop
I25	12 Feb 2015	High Tide (ft)	2.57
I25	12 Feb 2015	High Tide Time	1635
I25	12 Feb 2015	Low Tide (ft)	1.08
I25	12 Feb 2015	Low Tide Time	1026
I25	12 Feb 2015	Comments	none
I25	18 Feb 2015	Depth (m)	10
I25	18 Feb 2015	Arrive Time	1124
I25	18 Feb 2015	Depart Time	1129
I25	18 Feb 2015	Air Temp (C)	16

Station	Date	Parameter	Value
I25	18 Feb 2015	Weather	Haze
I25	18 Feb 2015	Visibility (mi)	9
I25	18 Feb 2015	Wind Speed (kts)	6
I25	18 Feb 2015	Wind Dir	SE
I25	18 Feb 2015	Water Color	Greenish-Brown
I25	18 Feb 2015	Wave Ht Low (ft)	4
I25	18 Feb 2015	Wave Period (sec)	13
I25	18 Feb 2015	Sea State	Calm
I25	18 Feb 2015	High Tide (ft)	6.36
I25	18 Feb 2015	High Tide Time	808
I25	18 Feb 2015	Low Tide (ft)	-1.46
I25	18 Feb 2015	Low Tide Time	1456
I25	18 Feb 2015	Comments	
I25	22 Feb 2015	Depth (m)	10
I25	22 Feb 2015	Arrive Time	1119
I25	22 Feb 2015	Depart Time	1127
I25	22 Feb 2015	Air Temp (C)	17
I25	22 Feb 2015	Weather	Overcast
I25	22 Feb 2015	Visibility (mi)	5
I25	22 Feb 2015	Wind Speed (kts)	8
I25	22 Feb 2015	Wind Dir	NE
I25	22 Feb 2015	Water Color	Green
I25	22 Feb 2015	Wave Ht Low (ft)	3
I25	22 Feb 2015	Wave Period (sec)	13
I25	22 Feb 2015	Sea State	Light chop
I25	22 Feb 2015	High Tide (ft)	4.45
I25	22 Feb 2015	High Tide Time	1121
I25	22 Feb 2015	Low Tide (ft)	0.28
I25	22 Feb 2015	Low Tide Time	525
I25	22 Feb 2015	Comments	Kelp
I25	27 Feb 2015	Depth (m)	10
I25	27 Feb 2015	Arrive Time	852
I25	27 Feb 2015	Depart Time	857
I25	27 Feb 2015	Air Temp (C)	16
I25	27 Feb 2015	Weather	Cloudy
I25	27 Feb 2015	Visibility (mi)	9
I25	27 Feb 2015	Wind Speed (kts)	9
I25	27 Feb 2015	Wind Dir	SE
I25	27 Feb 2015	Water Color	Bluish-Green
I25	27 Feb 2015	Wave Ht Low (ft)	4
I25	27 Feb 2015	Wave Period (sec)	11
I25	27 Feb 2015	Sea State	Light chop
I25	27 Feb 2015	High Tide (ft)	4.63
I25	27 Feb 2015	High Tide Time	430
I25	27 Feb 2015	Low Tide (ft)	0.08

Station	Date	Parameter	Value
I25	27 Feb 2015	Low Tide Time	1204
I25	27 Feb 2015	Comments	
I26	04 Feb 2015	Depth (m)	11
I26	04 Feb 2015	Arrive Time	907
I26	04 Feb 2015	Depart Time	914
I26	04 Feb 2015	Air Temp (C)	12
I26	04 Feb 2015	Weather	Haze
I26	04 Feb 2015	Visibility (mi)	5
I26	04 Feb 2015	Wind Speed (kts)	3
I26	04 Feb 2015	Wind Dir	W
I26	04 Feb 2015	Water Color	Greenish-Blue
I26	04 Feb 2015	Wave Ht Low (ft)	3
I26	04 Feb 2015	Wave Period (sec)	9
I26	04 Feb 2015	Sea State	Calm
I26	04 Feb 2015	High Tide (ft)	5.48
I26	04 Feb 2015	High Tide Time	849
I26	04 Feb 2015	Low Tide (ft)	-0.51
I26	04 Feb 2015	Low Tide Time	1540
I26	04 Feb 2015	Comments	
I26	12 Feb 2015	Depth (m)	10
I26	12 Feb 2015	Arrive Time	1147
I26	12 Feb 2015	Depart Time	1152
I26	12 Feb 2015	Air Temp (C)	26
I26	12 Feb 2015	Weather	Clear
I26	12 Feb 2015	Visibility (mi)	14
I26	12 Feb 2015	Wind Speed (kts)	18
I26	12 Feb 2015	Wind Dir	W
I26	12 Feb 2015	Water Color	Bluish-Green
I26	12 Feb 2015	Wave Ht Low (ft)	4
I26	12 Feb 2015	Wave Period (sec)	13
I26	12 Feb 2015	Sea State	Heavy chop
I26	12 Feb 2015	High Tide (ft)	2.57
I26	12 Feb 2015	High Tide Time	1635
I26	12 Feb 2015	Low Tide (ft)	1.08
I26	12 Feb 2015	Low Tide Time	1026
I26	12 Feb 2015	Comments	none
I26	18 Feb 2015	Depth (m)	10
I26	18 Feb 2015	Arrive Time	1141
I26	18 Feb 2015	Depart Time	1148
I26	18 Feb 2015	Air Temp (C)	16
I26	18 Feb 2015	Weather	Haze
I26	18 Feb 2015	Visibility (mi)	9
I26	18 Feb 2015	Wind Speed (kts)	8
I26	18 Feb 2015	Wind Dir	S

Station	Date	Parameter	Value
I26	18 Feb 2015	Water Color	Greenish-Brown
I26	18 Feb 2015	Wave Ht Low (ft)	4
I26	18 Feb 2015	Wave Period (sec)	13
I26	18 Feb 2015	Sea State	Calm
I26	18 Feb 2015	High Tide (ft)	6.36
I26	18 Feb 2015	High Tide Time	808
I26	18 Feb 2015	Low Tide (ft)	-1.46
I26	18 Feb 2015	Low Tide Time	1456
I26	18 Feb 2015	Comments	
I26	22 Feb 2015	Depth (m)	10
I26	22 Feb 2015	Arrive Time	1133
I26	22 Feb 2015	Depart Time	1139
I26	22 Feb 2015	Air Temp (C)	17
I26	22 Feb 2015	Weather	Overcast
I26	22 Feb 2015	Visibility (mi)	4
I26	22 Feb 2015	Wind Speed (kts)	7
I26	22 Feb 2015	Wind Dir	SE
I26	22 Feb 2015	Water Color	Green
I26	22 Feb 2015	Wave Ht Low (ft)	3
I26	22 Feb 2015	Wave Period (sec)	13
I26	22 Feb 2015	Sea State	Light chop
I26	22 Feb 2015	High Tide (ft)	4.45
I26	22 Feb 2015	High Tide Time	1121
I26	22 Feb 2015	Low Tide (ft)	0.28
I26	22 Feb 2015	Low Tide Time	525
I26	22 Feb 2015	Comments	
I26	27 Feb 2015	Depth (m)	12
I26	27 Feb 2015	Arrive Time	901
I26	27 Feb 2015	Depart Time	906
I26	27 Feb 2015	Air Temp (C)	16
I26	27 Feb 2015	Weather	Cloudy
I26	27 Feb 2015	Visibility (mi)	9
I26	27 Feb 2015	Wind Speed (kts)	11
I26	27 Feb 2015	Wind Dir	W
I26	27 Feb 2015	Water Color	Bluish-Green
I26	27 Feb 2015	Wave Ht Low (ft)	4
I26	27 Feb 2015	Wave Period (sec)	11
I26	27 Feb 2015	Sea State	Light chop
I26	27 Feb 2015	High Tide (ft)	4.63
I26	27 Feb 2015	High Tide Time	430
I26	27 Feb 2015	Low Tide (ft)	0.08
I26	27 Feb 2015	Low Tide Time	1204
I26	27 Feb 2015	Comments	
I32	05 Feb 2015	Depth (m)	11



Station	Date	Parameter	Value
I32	05 Feb 2015	Arrive Time	1007
I32	05 Feb 2015	Depart Time	1013
I32	05 Feb 2015	Air Temp (C)	14
I32	05 Feb 2015	Weather	Partly Cloudy
I32	05 Feb 2015	Visibility (mi)	6
I32	05 Feb 2015	Wind Speed (kts)	2
I32	05 Feb 2015	Wind Dir	S
I32	05 Feb 2015	Water Color	Green
I32	05 Feb 2015	Wave Ht Low (ft)	2
I32	05 Feb 2015	Wave Period (sec)	9
I32	05 Feb 2015	Sea State	Calm
I32	05 Feb 2015	High Tide (ft)	5.24
I32	05 Feb 2015	High Tide Time	920
I32	05 Feb 2015	Low Tide (ft)	-0.3
I32	05 Feb 2015	Low Tide Time	1606
I32	05 Feb 2015	Comments	Boats
I32	12 Feb 2015	Depth (m)	10
I32	12 Feb 2015	Arrive Time	1200
I32	12 Feb 2015	Depart Time	1206
I32	12 Feb 2015	Air Temp (C)	27
I32	12 Feb 2015	Weather	Clear
I32	12 Feb 2015	Visibility (mi)	14
I32	12 Feb 2015	Wind Speed (kts)	13
I32	12 Feb 2015	Wind Dir	S
I32	12 Feb 2015	Water Color	Green
I32	12 Feb 2015	Wave Ht Low (ft)	4
I32	12 Feb 2015	Wave Period (sec)	13
I32	12 Feb 2015	Sea State	Heavy chop
I32	12 Feb 2015	High Tide (ft)	2.57
I32	12 Feb 2015	High Tide Time	1635
I32	12 Feb 2015	Low Tide (ft)	1.08
I32	12 Feb 2015	Low Tide Time	1026
I32	12 Feb 2015	Comments	none
I32	18 Feb 2015	Depth (m)	10
I32	18 Feb 2015	Arrive Time	1156
I32	18 Feb 2015	Depart Time	1159
I32	18 Feb 2015	Air Temp (C)	16
I32	18 Feb 2015	Weather	Haze
I32	18 Feb 2015	Visibility (mi)	9
I32	18 Feb 2015	Wind Speed (kts)	6
I32	18 Feb 2015	Wind Dir	SE
I32	18 Feb 2015	Water Color	Greenish-Brown
I32	18 Feb 2015	Wave Ht Low (ft)	4
I32	18 Feb 2015	Wave Period (sec)	13
I32	18 Feb 2015	Sea State	Calm

Station	Date	Parameter	Value
I32	18 Feb 2015	High Tide (ft)	6.36
I32	18 Feb 2015	High Tide Time	808
I32	18 Feb 2015	Low Tide (ft)	-1.46
I32	18 Feb 2015	Low Tide Time	1456
I32	18 Feb 2015	Comments	
I32	22 Feb 2015	Depth (m)	11
I32	22 Feb 2015	Arrive Time	1146
I32	22 Feb 2015	Depart Time	1154
I32	22 Feb 2015	Air Temp (C)	16
I32	22 Feb 2015	Weather	Overcast
I32	22 Feb 2015	Visibility (mi)	4
I32	22 Feb 2015	Wind Speed (kts)	7
I32	22 Feb 2015	Wind Dir	NW
I32	22 Feb 2015	Water Color	Green
I32	22 Feb 2015	Wave Ht Low (ft)	3
I32	22 Feb 2015	Wave Period (sec)	13
I32	22 Feb 2015	Sea State	Light chop
I32	22 Feb 2015	High Tide (ft)	4.45
I32	22 Feb 2015	High Tide Time	1121
I32	22 Feb 2015	Low Tide (ft)	0.28
I32	22 Feb 2015	Low Tide Time	525
I32	22 Feb 2015	Comments	
I32	27 Feb 2015	Depth (m)	10
I32	27 Feb 2015	Arrive Time	913
I32	27 Feb 2015	Depart Time	918
I32	27 Feb 2015	Air Temp (C)	16
I32	27 Feb 2015	Weather	Cloudy
I32	27 Feb 2015	Visibility (mi)	9
I32	27 Feb 2015	Wind Speed (kts)	9
I32	27 Feb 2015	Wind Dir	SW
I32	27 Feb 2015	Water Color	Bluish-Green
I32	27 Feb 2015	Wave Ht Low (ft)	4
I32	27 Feb 2015	Wave Period (sec)	11
I32	27 Feb 2015	Sea State	Light chop
I32	27 Feb 2015	High Tide (ft)	4.63
I32	27 Feb 2015	High Tide Time	430
I32	27 Feb 2015	Low Tide (ft)	0.08
I32	27 Feb 2015	Low Tide Time	1204
I32	27 Feb 2015	Comments	
I39	04 Feb 2015	Depth (m)	20
I39	04 Feb 2015	Arrive Time	850
I39	04 Feb 2015	Depart Time	858
I39	04 Feb 2015	Air Temp (C)	11
I39	04 Feb 2015	Weather	Fog

Station	Date	Parameter	Value
I39	04 Feb 2015	Visibility (mi)	1
I39	04 Feb 2015	Wind Speed (kts)	2
I39	04 Feb 2015	Wind Dir	SW
I39	04 Feb 2015	Water Color	Greenish-Blue
I39	04 Feb 2015	Wave Ht Low (ft)	3
I39	04 Feb 2015	Wave Period (sec)	9
I39	04 Feb 2015	Sea State	Calm
I39	04 Feb 2015	High Tide (ft)	5.48
I39	04 Feb 2015	High Tide Time	849
I39	04 Feb 2015	Low Tide (ft)	-0.51
I39	04 Feb 2015	Low Tide Time	1540
I39	04 Feb 2015	Comments	
I39	12 Feb 2015	Depth (m)	19
I39	12 Feb 2015	Arrive Time	1035
I39	12 Feb 2015	Depart Time	1044
I39	12 Feb 2015	Air Temp (C)	24
I39	12 Feb 2015	Weather	Clear
I39	12 Feb 2015	Visibility (mi)	14
I39	12 Feb 2015	Wind Speed (kts)	11
I39	12 Feb 2015	Wind Dir	SW
I39	12 Feb 2015	Water Color	Bluish-Green
I39	12 Feb 2015	Wave Ht Low (ft)	4
I39	12 Feb 2015	Wave Period (sec)	13
I39	12 Feb 2015	Sea State	Heavy chop
I39	12 Feb 2015	High Tide (ft)	2.57
I39	12 Feb 2015	High Tide Time	1635
I39	12 Feb 2015	Low Tide (ft)	1.08
I39	12 Feb 2015	Low Tide Time	1026
I39	12 Feb 2015	Comments	none
I39	18 Feb 2015	Depth (m)	20
I39	18 Feb 2015	Arrive Time	1025
I39	18 Feb 2015	Depart Time	1031
I39	18 Feb 2015	Air Temp (C)	16
I39	18 Feb 2015	Weather	Haze
I39	18 Feb 2015	Visibility (mi)	9
I39	18 Feb 2015	Wind Speed (kts)	2
I39	18 Feb 2015	Wind Dir	W
I39	18 Feb 2015	Water Color	Greenish-Blue
I39	18 Feb 2015	Wave Ht Low (ft)	4
I39	18 Feb 2015	Wave Period (sec)	13
I39	18 Feb 2015	Sea State	Calm
I39	18 Feb 2015	High Tide (ft)	6.36
I39	18 Feb 2015	High Tide Time	808
I39	18 Feb 2015	Low Tide (ft)	-1.46
I39	18 Feb 2015	Low Tide Time	1456

Station	Date	Parameter	Value
I39	18 Feb 2015	Comments	
I39	22 Feb 2015	Depth (m)	20
I39	22 Feb 2015	Arrive Time	1025
I39	22 Feb 2015	Depart Time	1032
I39	22 Feb 2015	Air Temp (C)	17
I39	22 Feb 2015	Weather	Overcast
I39	22 Feb 2015	Visibility (mi)	5
I39	22 Feb 2015	Wind Speed (kts)	9
I39	22 Feb 2015	Wind Dir	SW
I39	22 Feb 2015	Water Color	Green
I39	22 Feb 2015	Wave Ht Low (ft)	3
I39	22 Feb 2015	Wave Period (sec)	13
I39	22 Feb 2015	Sea State	Light chop
I39	22 Feb 2015	High Tide (ft)	4.45
I39	22 Feb 2015	High Tide Time	1121
I39	22 Feb 2015	Low Tide (ft)	0.28
I39	22 Feb 2015	Low Tide Time	525
I39	22 Feb 2015	Comments	
I39	27 Feb 2015	Depth (m)	19
I39	27 Feb 2015	Arrive Time	805
I39	27 Feb 2015	Depart Time	812
I39	27 Feb 2015	Air Temp (C)	15
I39	27 Feb 2015	Weather	Cloudy
I39	27 Feb 2015	Visibility (mi)	9
I39	27 Feb 2015	Wind Speed (kts)	5
I39	27 Feb 2015	Wind Dir	SW
I39	27 Feb 2015	Water Color	Bluish-Green
I39	27 Feb 2015	Wave Ht Low (ft)	4
I39	27 Feb 2015	Wave Period (sec)	11
I39	27 Feb 2015	Sea State	Light chop
I39	27 Feb 2015	High Tide (ft)	4.63
I39	27 Feb 2015	High Tide Time	430
I39	27 Feb 2015	Low Tide (ft)	0.08
I39	27 Feb 2015	Low Tide Time	1204
I39	27 Feb 2015	Comments	
I40	04 Feb 2015	Depth (m)	11
I40	04 Feb 2015	Arrive Time	956
I40	04 Feb 2015	Depart Time	1003
I40	04 Feb 2015	Air Temp (C)	14
I40	04 Feb 2015	Weather	Haze
I40	04 Feb 2015	Visibility (mi)	10
I40	04 Feb 2015	Wind Speed (kts)	5
I40	04 Feb 2015	Wind Dir	SW
I40	04 Feb 2015	Water Color	Green

Station	Date	Parameter	Value
I40	04 Feb 2015	Wave Ht Low (ft)	3
I40	04 Feb 2015	Wave Period (sec)	9
I40	04 Feb 2015	Sea State	Calm
I40	04 Feb 2015	High Tide (ft)	5.48
I40	04 Feb 2015	High Tide Time	849
I40	04 Feb 2015	Low Tide (ft)	-0.51
I40	04 Feb 2015	Low Tide Time	1540
I40	04 Feb 2015	Comments	
I40	06 Feb 2015	Depth (m)	10
I40	06 Feb 2015	Arrive Time	1309
I40	06 Feb 2015	Depart Time	1310
I40	06 Feb 2015	Air Temp (C)	17
I40	06 Feb 2015	Weather	Fog
I40	06 Feb 2015	Visibility (mi)	2
I40	06 Feb 2015	Wind Speed (kts)	5
I40	06 Feb 2015	Wind Dir	W
I40	06 Feb 2015	Water Color	Green
I40	06 Feb 2015	Wave Ht Low (ft)	2
I40	06 Feb 2015	Wave Period (sec)	9
I40	06 Feb 2015	Sea State	Calm
I40	06 Feb 2015	High Tide (ft)	4.91
I40	06 Feb 2015	High Tide Time	951
I40	06 Feb 2015	Low Tide (ft)	1.24
I40	06 Feb 2015	Low Tide Time	359
I40	06 Feb 2015	Comments	Resample from ITP Outfall sampled on February 04 2015 I40 2m
I40	12 Feb 2015	Depth (m)	9
I40	12 Feb 2015	Arrive Time	1114
I40	12 Feb 2015	Depart Time	1120
I40	12 Feb 2015	Air Temp (C)	26
I40	12 Feb 2015	Weather	Clear
I40	12 Feb 2015	Visibility (mi)	14
I40	12 Feb 2015	Wind Speed (kts)	26
I40	12 Feb 2015	Wind Dir	NE
I40	12 Feb 2015	Water Color	Brownish-Green
I40	12 Feb 2015	Wave Ht Low (ft)	4
I40	12 Feb 2015	Wave Period (sec)	13
I40	12 Feb 2015	Sea State	Heavy chop
I40	12 Feb 2015	High Tide (ft)	2.57
I40	12 Feb 2015	High Tide Time	1635
I40	12 Feb 2015	Low Tide (ft)	1.08
I40	12 Feb 2015	Low Tide Time	1026
I40	12 Feb 2015	Comments	none
I40	18 Feb 2015	Depth (m)	11

Station	Date	Parameter	Value
I40	18 Feb 2015	Arrive Time	1102
I40	18 Feb 2015	Depart Time	1109
I40	18 Feb 2015	Air Temp (C)	16
I40	18 Feb 2015	Weather	Haze
I40	18 Feb 2015	Visibility (mi)	9
I40	18 Feb 2015	Wind Speed (kts)	2
I40	18 Feb 2015	Wind Dir	E
I40	18 Feb 2015	Water Color	Greenish-Brown
I40	18 Feb 2015	Wave Ht Low (ft)	4
I40	18 Feb 2015	Wave Period (sec)	13
I40	18 Feb 2015	Sea State	Calm
I40	18 Feb 2015	High Tide (ft)	6.36
I40	18 Feb 2015	High Tide Time	808
I40	18 Feb 2015	Low Tide (ft)	-1.46
I40	18 Feb 2015	Low Tide Time	1456
I40	18 Feb 2015	Comments	
I40	22 Feb 2015	Depth (m)	11
I40	22 Feb 2015	Arrive Time	1059
I40	22 Feb 2015	Depart Time	1107
I40	22 Feb 2015	Air Temp (C)	17
I40	22 Feb 2015	Weather	Overcast
I40	22 Feb 2015	Visibility (mi)	5
I40	22 Feb 2015	Wind Speed (kts)	8
I40	22 Feb 2015	Wind Dir	SE
I40	22 Feb 2015	Water Color	Green
I40	22 Feb 2015	Wave Ht Low (ft)	3
I40	22 Feb 2015	Wave Period (sec)	13
I40	22 Feb 2015	Sea State	Light chop
I40	22 Feb 2015	High Tide (ft)	4.45
I40	22 Feb 2015	High Tide Time	1121
I40	22 Feb 2015	Low Tide (ft)	0.28
I40	22 Feb 2015	Low Tide Time	525
I40	22 Feb 2015	Comments	
I40	27 Feb 2015	Depth (m)	10
I40	27 Feb 2015	Arrive Time	835
I40	27 Feb 2015	Depart Time	843
I40	27 Feb 2015	Air Temp (C)	16
I40	27 Feb 2015	Weather	Cloudy
I40	27 Feb 2015	Visibility (mi)	9
I40	27 Feb 2015	Wind Speed (kts)	8
I40	27 Feb 2015	Wind Dir	W
I40	27 Feb 2015	Water Color	Bluish-Green
I40	27 Feb 2015	Wave Ht Low (ft)	4
I40	27 Feb 2015	Wave Period (sec)	11
I40	27 Feb 2015	Sea State	Light chop

<b>Station</b>	<b>Date</b>	<b>Parameter</b>	<b>Value</b>
I40	27 Feb 2015	High Tide (ft)	4.63
I40	27 Feb 2015	High Tide Time	430
I40	27 Feb 2015	Low Tide (ft)	0.08
I40	27 Feb 2015	Low Tide Time	1204
I40	27 Feb 2015	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 ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I19	04 Feb 2015	1	16.45	68.54	7.9	33.41	8.2	24.4	1.93
I19	04 Feb 2015	2	16.39	68.43	7.9	33.41	8.2	24.4	2.29
I19	04 Feb 2015	3	16.34	66.51	7.9	33.41	8.2	24.4	2.72
I19	04 Feb 2015	4	16.30	64.80	7.8	33.41	8.2	24.5	3.00
I19	04 Feb 2015	5	16.28	63.73	7.8	33.41	8.2	24.5	3.05
I19	04 Feb 2015	6	16.26	63.76	7.8	33.41	8.2	24.5	2.93
I19	04 Feb 2015	7	16.25	63.71	7.8	33.41	8.2	24.5	2.84
I19	04 Feb 2015	8	16.24	63.80	7.8	33.41	8.2	24.5	2.68
I19	04 Feb 2015	9	16.21	63.47	7.8	33.41	8.2	24.5	2.51
I19	04 Feb 2015	10	16.13	63.30	7.5	33.41	8.2	24.5	2.44
I19	12 Feb 2015	1	13.08	29.12	7.0	33.32	8.1	25.1	1.02
I19	12 Feb 2015	2	13.05	28.43	7.0	33.32	8.1	25.1	1.13
I19	12 Feb 2015	3	13.05	28.48	7.0	33.32	8.1	25.1	1.33
I19	12 Feb 2015	4	13.04	28.80	7.0	33.32	8.1	25.1	1.41
I19	12 Feb 2015	5	13.05	28.99	6.9	33.32	8.1	25.1	1.42
I19	12 Feb 2015	6	13.03	29.25	6.9	33.32	8.1	25.1	1.44
I19	12 Feb 2015	7	12.91	29.52	6.8	33.33	8.1	25.1	1.39
I19	12 Feb 2015	8	12.90	30.59	6.8	33.32	8.1	25.1	1.38
I19	12 Feb 2015	9	12.83	34.98	6.6	33.32	8.1	25.1	1.31
I19	12 Feb 2015	10	12.68	37.84	6.4	33.31	8.1	25.1	1.38
I19	18 Feb 2015	1	16.20	87.49	8.2	33.34	8.2	24.4	0.52
I19	18 Feb 2015	2	16.13	87.23	8.2	33.34	8.2	24.4	0.54
I19	18 Feb 2015	3	16.07	87.32	8.1	33.34	8.2	24.5	0.60
I19	18 Feb 2015	4	15.84	87.35	8.2	33.32	8.2	24.5	0.64
I19	18 Feb 2015	5	15.53	87.80	8.1	33.31	8.2	24.6	0.68
I19	18 Feb 2015	6	15.18	86.04	8.1	33.30	8.2	24.6	0.83
I19	18 Feb 2015	7	15.06	81.10	8.0	33.30	8.2	24.7	0.96
I19	18 Feb 2015	8	14.87	83.70	8.0	33.30	8.2	24.7	1.31
I19	18 Feb 2015	9	14.80	80.73	7.9	33.30	8.2	24.7	1.79
I19	18 Feb 2015	10	14.70	78.40	7.8	33.30	8.2	24.7	2.17
I19	22 Feb 2015	1	16.35	83.15	8.1	33.35	8.2	24.4	1.50
I19	22 Feb 2015	2	16.35	83.07	8.1	33.35	8.2	24.4	1.62
I19	22 Feb 2015	3	16.35	83.07	8.1	33.35	8.2	24.4	1.80
I19	22 Feb 2015	4	16.34	83.03	8.1	33.35	8.2	24.4	1.99
I19	22 Feb 2015	5	16.34	82.75	8.1	33.35	8.2	24.4	2.20
I19	22 Feb 2015	6	16.34	82.44	8.1	33.35	8.2	24.4	2.35
I19	22 Feb 2015	7	16.29	82.24	8.0	33.34	8.2	24.4	2.54
I19	22 Feb 2015	8	16.05	81.41	7.9	33.32	8.2	24.4	3.35
I19	22 Feb 2015	9	15.70	74.79	7.8	33.32	8.2	24.5	4.12
I19	22 Feb 2015	10	15.59	69.83	7.7	33.31	8.2	24.5	4.37
I19	27 Feb 2015	1	16.73	86.86	7.8	33.35	8.2	24.3	0.76
I19	27 Feb 2015	2	16.73	86.79	7.8	33.35	8.2	24.3	0.83
I19	27 Feb 2015	3	16.71	87.14	7.8	33.34	8.2	24.3	1.13
I19	27 Feb 2015	4	16.52	86.88	7.9	33.31	8.2	24.3	1.85
I19	27 Feb 2015	5	16.45	81.84	7.9	33.30	8.2	24.3	2.45
I19	27 Feb 2015	6	16.43	76.50	7.8	33.30	8.2	24.3	2.65
I19	27 Feb 2015	7	16.39	75.86	7.9	33.31	8.2	24.4	2.54



Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I19	27 Feb 2015	8	16.37	76.51	7.9	33.31	8.2	24.4	2.50
I19	27 Feb 2015	9	16.37	76.00	7.8	33.31	8.2	24.4	2.48
I19	27 Feb 2015	10	16.34	76.26	7.7	33.32	8.2	24.4	2.81
I24	04 Feb 2015	1	16.57	69.25	7.8	33.34	8.2	24.3	1.22
I24	04 Feb 2015	2	16.54	69.18	7.8	33.35	8.2	24.4	1.44
I24	04 Feb 2015	3	16.51	68.79	7.8	33.36	8.2	24.4	1.76
I24	04 Feb 2015	4	16.50	68.77	7.8	33.36	8.2	24.4	2.01
I24	04 Feb 2015	5	16.48	68.28	7.8	33.38	8.2	24.4	2.13
I24	04 Feb 2015	6	16.49	68.13	7.8	33.39	8.2	24.4	2.07
I24	04 Feb 2015	7	16.53	67.98	7.6	33.42	8.2	24.4	1.94
I24	04 Feb 2015	8	16.40	67.98	7.2	33.43	8.2	24.4	2.06
I24	04 Feb 2015	9	16.20	63.03	7.0	33.43	8.1	24.5	2.29
I24	04 Feb 2015	10	16.16	53.14	6.9	33.44	8.1	24.5	2.46
I24	04 Feb 2015	11	16.16	47.73	7.0	33.44	8.1	24.5	2.37
I24	12 Feb 2015	1	14.00	31.23	7.5	33.32	8.1	24.9	1.35
I24	12 Feb 2015	2	14.00	30.92	7.5	33.32	8.1	24.9	1.39
I24	12 Feb 2015	3	13.97	31.11	7.5	33.32	8.1	24.9	1.53
I24	12 Feb 2015	4	13.98	30.54	7.5	33.32	8.1	24.9	1.73
I24	12 Feb 2015	5	13.97	30.99	7.5	33.32	8.1	24.9	1.78
I24	12 Feb 2015	6	13.95	30.37	7.4	33.32	8.1	24.9	1.86
I24	12 Feb 2015	7	13.95	29.76	7.4	33.32	8.1	24.9	1.90
I24	12 Feb 2015	8	13.95	29.04	7.4	33.32	8.1	24.9	1.82
I24	12 Feb 2015	9	13.95	28.96	7.3	33.32	8.1	24.9	1.99
I24	12 Feb 2015	10	13.95	28.08	7.3	33.32	8.1	24.9	2.01
I24	18 Feb 2015	1	16.46	86.22	8.1	33.35	8.2	24.4	0.57
I24	18 Feb 2015	2	16.29	86.19	8.1	33.35	8.2	24.4	0.56
I24	18 Feb 2015	3	16.14	86.40	8.2	33.35	8.2	24.4	0.58
I24	18 Feb 2015	4	16.11	86.98	8.2	33.35	8.2	24.5	0.64
I24	18 Feb 2015	5	16.08	86.99	8.1	33.35	8.2	24.5	0.80
I24	18 Feb 2015	6	16.00	87.34	8.1	33.34	8.2	24.5	0.96
I24	18 Feb 2015	7	15.55	87.09	8.0	33.31	8.2	24.6	0.87
I24	18 Feb 2015	8	15.42	86.17	8.1	33.32	8.2	24.6	0.80
I24	18 Feb 2015	9	15.40	85.43	8.0	33.31	8.2	24.6	0.80
I24	18 Feb 2015	10	15.39	85.42	8.0	33.31	8.2	24.6	0.83
I24	18 Feb 2015	11	15.38	85.22	8.1	33.31	8.2	24.6	0.82
I24	22 Feb 2015	1	16.45	85.10	7.9	33.36	8.2	24.4	1.00
I24	22 Feb 2015	2	16.45	85.66	7.9	33.35	8.2	24.4	1.02
I24	22 Feb 2015	3	16.45	85.91	7.9	33.36	8.2	24.4	1.02
I24	22 Feb 2015	4	16.44	85.23	7.9	33.35	8.2	24.4	1.12
I24	22 Feb 2015	5	16.45	86.34	7.9	33.35	8.2	24.4	1.19
I24	22 Feb 2015	6	16.42	86.44	7.9	33.35	8.2	24.4	1.35
I24	22 Feb 2015	7	16.39	86.44	7.9	33.35	8.2	24.4	1.53
I24	22 Feb 2015	8	16.32	86.66	7.8	33.34	8.2	24.4	1.40
I24	22 Feb 2015	9	15.73	87.07	7.6	33.31	8.2	24.5	1.33
I24	22 Feb 2015	10	15.51	86.60	7.5	33.32	8.1	24.6	1.27
I24	22 Feb 2015	11	15.52	85.20	7.5	33.32	8.1	24.6	1.17
I24	27 Feb 2015	1	16.50	84.68	7.9	33.29	8.2	24.3	1.07
I24	27 Feb 2015	2	16.49	84.83	7.9	33.29	8.2	24.3	1.12
I24	27 Feb 2015	3	16.50	85.26	7.9	33.30	8.2	24.3	1.18
I24	27 Feb 2015	4	16.50	85.71	7.9	33.30	8.2	24.3	1.31

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I24	27 Feb 2015	5	16.50	85.66	7.9	33.30	8.2	24.3	1.31
I24	27 Feb 2015	6	16.52	86.01	7.9	33.31	8.2	24.3	1.26
I24	27 Feb 2015	7	16.53	87.35	7.9	33.33	8.2	24.3	1.14
I24	27 Feb 2015	8	16.48	88.94	7.8	33.33	8.2	24.4	1.06
I24	27 Feb 2015	9	16.19	89.95	7.8	33.33	8.2	24.4	1.00
I24	27 Feb 2015	10	16.16	89.51	7.9	33.33	8.2	24.4	1.03
I24	27 Feb 2015	11	16.16	89.27	7.8	33.33	8.2	24.4	1.01
I25	04 Feb 2015	1	16.53	68.50	7.8	33.31	8.2	24.3	1.51
I25	04 Feb 2015	2	16.52	68.50	7.8	33.32	8.2	24.3	1.67
I25	04 Feb 2015	3	16.57	69.02	7.8	33.40	8.2	24.4	1.60
I25	04 Feb 2015	4	16.59	73.41	7.7	33.42	8.2	24.4	1.50
I25	04 Feb 2015	5	16.57	76.13	7.8	33.42	8.2	24.4	1.45
I25	04 Feb 2015	6	16.52	78.36	7.8	33.42	8.2	24.4	1.32
I25	04 Feb 2015	7	16.50	80.32	7.7	33.42	8.2	24.4	1.24
I25	04 Feb 2015	8	16.41	80.72	7.4	33.41	8.2	24.4	1.18
I25	04 Feb 2015	9	16.34	76.74	7.2	33.41	8.2	24.4	1.12
I25	12 Feb 2015	1	14.08	57.17	6.8	33.32	8.1	24.9	0.73
I25	12 Feb 2015	2	14.07	56.34	6.9	33.32	8.1	24.9	0.77
I25	12 Feb 2015	3	14.03	57.52	6.9	33.32	8.1	24.9	0.89
I25	12 Feb 2015	4	14.03	57.87	6.9	33.32	8.1	24.9	1.09
I25	12 Feb 2015	5	14.00	57.80	6.8	33.32	8.1	24.9	1.30
I25	12 Feb 2015	6	13.89	58.10	6.8	33.31	8.1	24.9	1.43
I25	12 Feb 2015	7	13.60	58.51	6.6	33.31	8.1	25.0	1.41
I25	12 Feb 2015	8	13.53	58.87	6.5	33.31	8.1	25.0	1.34
I25	12 Feb 2015	9	13.52	58.91	6.5	33.30	8.1	25.0	1.30
I25	18 Feb 2015	1	16.31	87.45	7.6	33.30	8.2	24.4	0.62
I25	18 Feb 2015	2	16.17	87.61	7.7	33.39	8.2	24.5	0.65
I25	18 Feb 2015	3	16.12	88.02	7.8	33.36	8.2	24.5	0.66
I25	18 Feb 2015	4	16.03	88.59	7.9	33.38	8.2	24.5	0.62
I25	18 Feb 2015	5	15.28	88.70	8.0	33.45	8.2	24.7	0.69
I25	18 Feb 2015	6	15.08	86.84	7.9	33.34	8.2	24.7	0.75
I25	18 Feb 2015	7	15.01	84.77	7.8	33.32	8.2	24.7	0.85
I25	18 Feb 2015	8	15.00	84.50	7.8	33.31	8.2	24.7	0.77
I25	18 Feb 2015	9	14.99	84.10	7.8	33.31	8.2	24.7	0.81
I25	22 Feb 2015	1	16.45	85.10	7.9	33.36	8.2	24.4	1.00
I25	22 Feb 2015	2	16.45	85.64	7.9	33.35	8.2	24.4	1.02
I25	22 Feb 2015	3	16.45	85.92	7.9	33.36	8.2	24.4	1.03
I25	22 Feb 2015	4	16.44	85.23	7.9	33.35	8.2	24.4	1.14
I25	22 Feb 2015	5	16.45	86.33	7.9	33.35	8.2	24.4	1.18
I25	22 Feb 2015	6	16.42	86.44	7.9	33.35	8.2	24.4	1.35
I25	22 Feb 2015	7	16.39	86.44	7.9	33.35	8.2	24.4	1.53
I25	22 Feb 2015	8	16.32	86.66	7.8	33.34	8.2	24.4	1.40
I25	22 Feb 2015	9	15.75	87.07	7.6	33.30	8.2	24.5	1.34
I25	27 Feb 2015	1	16.53	80.65	7.8	33.35	8.2	24.4	0.72
I25	27 Feb 2015	2	16.53	90.06	7.8	33.36	8.2	24.4	0.74
I25	27 Feb 2015	3	16.53	90.43	7.7	33.36	8.2	24.4	0.77
I25	27 Feb 2015	4	16.49	91.00	7.8	33.35	8.2	24.4	0.84
I25	27 Feb 2015	5	16.42	91.00	7.8	33.34	8.2	24.4	0.91
I25	27 Feb 2015	6	16.21	90.84	7.7	33.32	8.2	24.4	1.09
I25	27 Feb 2015	7	15.91	89.87	7.8	33.31	8.2	24.5	1.17

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I25	27 Feb 2015	8	15.87	88.46	7.9	33.31	8.2	24.5	1.13
I25	27 Feb 2015	9	15.88	88.12	8.0	33.31	8.2	24.5	1.08
I26	04 Feb 2015	1	16.50	79.18	7.7	33.42	8.2	24.4	0.90
I26	04 Feb 2015	2	16.50	79.29	7.7	33.42	8.2	24.4	0.95
I26	04 Feb 2015	3	16.50	79.26	7.7	33.42	8.2	24.4	1.11
I26	04 Feb 2015	4	16.49	78.93	7.7	33.42	8.2	24.4	1.21
I26	04 Feb 2015	5	16.49	78.83	7.7	33.42	8.2	24.4	1.28
I26	04 Feb 2015	6	16.49	79.01	7.7	33.42	8.2	24.4	1.33
I26	04 Feb 2015	7	16.49	78.82	7.7	33.42	8.2	24.4	1.36
I26	04 Feb 2015	8	16.48	79.20	7.7	33.42	8.2	24.4	1.34
I26	04 Feb 2015	9	16.46	79.13	7.5	33.41	8.2	24.4	1.25
I26	12 Feb 2015	1	14.33	60.93	7.4	33.32	8.1	24.8	0.75
I26	12 Feb 2015	2	14.30	61.02	7.3	33.33	8.2	24.8	0.80
I26	12 Feb 2015	3	14.31	62.21	7.3	33.33	8.1	24.8	0.89
I26	12 Feb 2015	4	14.30	62.48	7.3	33.32	8.2	24.8	1.04
I26	12 Feb 2015	5	14.28	62.75	7.3	33.32	8.1	24.8	1.21
I26	12 Feb 2015	6	14.23	62.86	7.3	33.32	8.1	24.8	1.35
I26	12 Feb 2015	7	14.05	63.23	7.1	33.30	8.1	24.9	1.44
I26	12 Feb 2015	8	13.54	64.23	6.8	33.28	8.1	25.0	1.39
I26	12 Feb 2015	9	13.13	64.89	6.6	33.30	8.1	25.0	1.30
I26	18 Feb 2015	1	16.28	86.49	8.2	33.36	8.2	24.4	0.56
I26	18 Feb 2015	2	16.25	86.99	8.2	33.35	8.2	24.4	0.57
I26	18 Feb 2015	3	15.88	87.46	8.2	33.33	8.2	24.5	0.67
I26	18 Feb 2015	4	15.41	87.83	8.3	33.33	8.2	24.6	0.80
I26	18 Feb 2015	5	15.23	87.98	8.1	33.31	8.2	24.6	0.85
I26	18 Feb 2015	6	14.90	87.93	8.0	33.30	8.2	24.7	0.82
I26	18 Feb 2015	7	14.66	88.55	8.0	33.30	8.2	24.7	0.88
I26	18 Feb 2015	8	14.65	86.95	7.9	33.30	8.2	24.7	0.94
I26	18 Feb 2015	9	14.64	85.88	7.9	33.30	8.2	24.7	0.89
I26	22 Feb 2015	1	16.40	87.74	8.0	33.35	8.2	24.4	0.95
I26	22 Feb 2015	2	16.39	87.90	8.0	33.35	8.2	24.4	1.01
I26	22 Feb 2015	3	16.39	88.04	8.0	33.35	8.2	24.4	1.13
I26	22 Feb 2015	4	16.39	87.93	8.0	33.35	8.2	24.4	1.19
I26	22 Feb 2015	5	16.35	88.03	8.1	33.35	8.2	24.4	1.55
I26	22 Feb 2015	6	16.33	87.75	8.0	33.34	8.2	24.4	1.71
I26	22 Feb 2015	7	16.17	87.57	7.9	33.33	8.2	24.4	2.02
I26	22 Feb 2015	8	15.83	87.84	7.9	33.31	8.2	24.5	1.95
I26	22 Feb 2015	9	15.53	86.72	7.8	33.32	8.2	24.6	1.43
I26	27 Feb 2015	1	16.45	88.17	7.7	33.35	8.2	24.4	0.79
I26	27 Feb 2015	2	16.45	88.95	7.7	33.35	8.2	24.4	0.79
I26	27 Feb 2015	3	16.43	90.49	7.7	33.35	8.2	24.4	0.86
I26	27 Feb 2015	4	16.38	90.53	7.7	33.35	8.2	24.4	0.93
I26	27 Feb 2015	5	16.13	90.43	7.7	33.33	8.2	24.4	1.13
I26	27 Feb 2015	6	15.52	89.57	7.7	33.30	8.2	24.6	1.23
I26	27 Feb 2015	7	15.50	86.87	7.7	33.30	8.1	24.6	1.29
I26	27 Feb 2015	8	15.49	86.04	7.8	33.30	8.1	24.6	1.31
I26	27 Feb 2015	9	15.50	86.05	7.6	33.30	8.1	24.6	1.29
I32	05 Feb 2015	1	16.47	66.15	7.7	33.42	8.2	24.4	1.60
I32	05 Feb 2015	2	16.42	63.90	7.5	33.41	8.2	24.4	1.92

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I32	05 Feb 2015	3	16.27	61.99	7.4	33.41	8.2	24.5	2.47
I32	05 Feb 2015	4	16.25	59.08	7.5	33.41	8.2	24.5	2.85
I32	05 Feb 2015	5	16.18	56.39	7.4	33.40	8.2	24.5	2.93
I32	05 Feb 2015	6	16.06	54.52	7.2	33.38	8.2	24.5	2.92
I32	05 Feb 2015	7	15.94	53.33	7.1	33.38	8.2	24.5	2.93
I32	05 Feb 2015	8	15.90	52.12	7.1	33.38	8.2	24.5	2.98
I32	05 Feb 2015	9	15.87	48.69	7.1	33.38	8.2	24.5	2.89
I32	05 Feb 2015	10	15.85	49.63	7.0	33.37	8.2	24.5	3.08
I32	12 Feb 2015	1	13.69	41.84	6.9	33.31	8.1	24.9	0.98
I32	12 Feb 2015	2	13.67	40.83	6.9	33.31	8.1	25.0	1.04
I32	12 Feb 2015	3	13.67	41.58	6.9	33.31	8.1	25.0	1.13
I32	12 Feb 2015	4	13.51	42.27	6.8	33.30	8.1	25.0	1.31
I32	12 Feb 2015	5	13.13	45.74	6.6	33.29	8.1	25.0	1.45
I32	12 Feb 2015	6	12.88	51.41	6.5	33.29	8.1	25.1	1.41
I32	12 Feb 2015	7	12.86	53.08	6.4	33.29	8.1	25.1	1.43
I32	12 Feb 2015	8	12.86	49.67	6.4	33.29	8.1	25.1	1.51
I32	12 Feb 2015	9	12.86	41.46	6.4	33.29	8.1	25.1	1.69
I32	12 Feb 2015	10	12.88	33.81	6.3	33.29	8.1	25.1	1.96
I32	18 Feb 2015	1	16.32	86.12	8.3	33.35	8.2	24.4	0.76
I32	18 Feb 2015	2	16.21	86.48	8.3	33.35	8.2	24.4	0.79
I32	18 Feb 2015	3	16.10	86.63	8.3	33.35	8.2	24.5	0.82
I32	18 Feb 2015	4	15.93	86.70	8.3	33.33	8.2	24.5	0.94
I32	18 Feb 2015	5	15.51	86.93	8.3	33.33	8.2	24.6	0.87
I32	18 Feb 2015	6	15.31	87.24	8.2	33.33	8.2	24.6	0.84
I32	18 Feb 2015	7	15.19	86.97	8.1	33.31	8.2	24.6	0.89
I32	18 Feb 2015	8	14.92	83.42	8.0	33.31	8.2	24.7	1.04
I32	18 Feb 2015	9	14.75	79.93	7.9	33.31	8.2	24.7	1.37
I32	18 Feb 2015	10	14.73	75.12	7.9	33.31	8.2	24.7	1.68
I32	22 Feb 2015	1	16.46	84.91	8.1	33.35	8.2	24.4	1.28
I32	22 Feb 2015	2	16.44	85.14	8.1	33.35	8.2	24.4	1.43
I32	22 Feb 2015	3	16.43	85.16	8.0	33.36	8.2	24.4	1.50
I32	22 Feb 2015	4	16.42	84.91	8.0	33.36	8.2	24.4	1.61
I32	22 Feb 2015	5	16.43	84.31	8.0	33.35	8.2	24.4	1.71
I32	22 Feb 2015	6	16.37	84.24	8.0	33.35	8.2	24.4	1.86
I32	22 Feb 2015	7	16.30	83.40	7.9	33.35	8.2	24.4	1.98
I32	22 Feb 2015	8	16.09	81.99	7.8	33.34	8.2	24.4	2.27
I32	22 Feb 2015	9	15.89	79.50	7.8	33.32	8.2	24.5	2.38
I32	22 Feb 2015	10	15.62	81.67	7.7	33.31	8.2	24.5	2.28
I32	27 Feb 2015	1	16.49	82.93	7.8	33.33	8.2	24.4	1.39
I32	27 Feb 2015	2	16.41	82.38	7.8	33.32	8.2	24.4	1.70
I32	27 Feb 2015	3	16.37	78.91	7.8	33.32	8.2	24.4	1.88
I32	27 Feb 2015	4	16.34	79.43	7.9	33.31	8.2	24.4	1.98
I32	27 Feb 2015	5	16.33	77.90	7.8	33.32	8.2	24.4	2.08
I32	27 Feb 2015	6	16.32	78.32	7.9	33.32	8.2	24.4	2.09
I32	27 Feb 2015	7	16.16	78.81	7.8	33.31	8.2	24.4	2.12
I32	27 Feb 2015	8	15.64	79.33	7.8	33.30	8.2	24.5	2.64
I32	27 Feb 2015	9	15.52	71.71	7.7	33.31	8.1	24.6	2.97
I32	27 Feb 2015	10	15.52	64.04	7.6	33.31	8.1	24.6	3.00
I39	04 Feb 2015	1	16.46	84.04	7.8	33.38	8.2	24.4	0.78
I39	04 Feb 2015	2	16.46	85.06	7.8	33.40	8.2	24.4	0.81

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I39	04 Feb 2015	3	16.47	85.26	7.8	33.41	8.2	24.4	0.85
I39	04 Feb 2015	4	16.47	85.26	7.8	33.41	8.2	24.4	0.90
I39	04 Feb 2015	5	16.46	85.28	7.8	33.41	8.2	24.4	0.96
I39	04 Feb 2015	6	16.44	85.16	7.8	33.41	8.2	24.4	1.08
I39	04 Feb 2015	7	16.33	84.85	7.8	33.41	8.2	24.4	1.24
I39	04 Feb 2015	8	16.34	84.45	7.7	33.40	8.2	24.4	1.34
I39	04 Feb 2015	9	16.10	84.58	7.6	33.38	8.2	24.5	1.51
I39	04 Feb 2015	10	15.73	84.84	7.7	33.36	8.2	24.5	1.66
I39	04 Feb 2015	11	15.61	85.10	7.7	33.36	8.2	24.6	1.74
I39	04 Feb 2015	12	15.56	84.93	7.6	33.35	8.2	24.6	1.75
I39	04 Feb 2015	13	15.51	83.93	7.5	33.35	8.2	24.6	1.69
I39	04 Feb 2015	14	15.40	81.56	7.3	33.34	8.2	24.6	1.60
I39	04 Feb 2015	15	15.21	78.35	7.3	33.34	8.2	24.6	1.60
I39	04 Feb 2015	16	15.08	78.00	7.3	33.34	8.1	24.7	1.54
I39	04 Feb 2015	17	14.99	76.98	7.3	33.34	8.1	24.7	1.54
I39	04 Feb 2015	18	14.94	75.65	7.2	33.34	8.1	24.7	1.55
I39	12 Feb 2015	1	14.95	80.77	7.5	33.35	8.2	24.7	0.68
I39	12 Feb 2015	2	14.96	80.80	7.5	33.35	8.2	24.7	0.69
I39	12 Feb 2015	3	14.95	80.95	7.5	33.35	8.2	24.7	0.76
I39	12 Feb 2015	4	14.88	81.04	7.5	33.34	8.2	24.7	0.84
I39	12 Feb 2015	5	14.72	81.07	7.3	33.33	8.2	24.7	0.93
I39	12 Feb 2015	6	14.47	81.39	7.2	33.30	8.2	24.8	0.97
I39	12 Feb 2015	7	13.69	81.89	6.9	33.30	8.2	24.9	0.88
I39	12 Feb 2015	8	13.31	82.60	6.8	33.28	8.1	25.0	0.83
I39	12 Feb 2015	9	13.13	82.34	6.6	33.29	8.1	25.0	0.87
I39	12 Feb 2015	10	13.03	79.68	6.5	33.29	8.1	25.1	0.93
I39	12 Feb 2015	11	12.82	76.49	6.4	33.29	8.1	25.1	0.91
I39	12 Feb 2015	12	12.71	72.84	6.3	33.30	8.1	25.1	0.89
I39	12 Feb 2015	13	12.52	70.74	6.3	33.31	8.1	25.2	0.86
I39	12 Feb 2015	14	12.43	68.73	6.2	33.31	8.1	25.2	0.88
I39	12 Feb 2015	15	12.33	67.76	6.2	33.32	8.1	25.2	0.86
I39	12 Feb 2015	16	12.28	64.31	6.2	33.33	8.1	25.2	0.83
I39	12 Feb 2015	17	12.25	62.05	6.2	33.33	8.1	25.2	0.80
I39	12 Feb 2015	18	12.23	58.85	6.2	33.33	8.1	25.3	0.78
I39	18 Feb 2015	1	16.36	85.51	7.8	33.35	8.2	24.4	0.80
I39	18 Feb 2015	2	16.29	85.86	7.8	33.35	8.2	24.4	0.84
I39	18 Feb 2015	3	16.26	86.06	7.9	33.35	8.2	24.4	0.91
I39	18 Feb 2015	4	16.26	86.12	7.8	33.35	8.2	24.4	0.99
I39	18 Feb 2015	5	16.20	86.31	7.9	33.35	8.2	24.4	1.05
I39	18 Feb 2015	6	16.17	86.45	7.9	33.35	8.2	24.4	1.06
I39	18 Feb 2015	7	16.15	86.89	7.9	33.35	8.2	24.4	1.17
I39	18 Feb 2015	8	16.15	86.97	7.9	33.35	8.2	24.4	1.23
I39	18 Feb 2015	9	16.14	87.31	7.9	33.35	8.2	24.4	1.28
I39	18 Feb 2015	10	16.10	87.42	7.9	33.35	8.2	24.5	1.24
I39	18 Feb 2015	11	16.09	87.62	7.9	33.35	8.2	24.5	1.24
I39	18 Feb 2015	12	16.05	87.71	7.9	33.35	8.2	24.5	1.21
I39	18 Feb 2015	13	15.94	87.85	8.0	33.34	8.2	24.5	1.25
I39	18 Feb 2015	14	15.78	88.19	8.0	33.34	8.2	24.5	1.28
I39	18 Feb 2015	15	15.66	88.26	7.9	33.33	8.2	24.5	1.23
I39	18 Feb 2015	16	15.39	88.56	7.8	33.32	8.2	24.6	1.19
I39	18 Feb 2015	17	14.84	88.73	7.7	33.30	8.2	24.7	1.02
I39	18 Feb 2015	18	14.51	88.72	7.5	33.30	8.2	24.8	1.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I39	22 Feb 2015	1	16.71	88.51	7.9	33.36	8.2	24.3	0.86
I39	22 Feb 2015	2	16.72	88.88	7.9	33.37	8.2	24.3	0.89
I39	22 Feb 2015	3	16.72	88.99	7.9	33.36	8.2	24.3	0.97
I39	22 Feb 2015	4	16.72	89.22	7.9	33.36	8.2	24.3	1.00
I39	22 Feb 2015	5	16.72	89.27	7.9	33.36	8.2	24.3	0.99
I39	22 Feb 2015	6	16.69	89.36	7.9	33.36	8.2	24.3	1.09
I39	22 Feb 2015	7	16.66	89.37	7.9	33.36	8.2	24.3	1.21
I39	22 Feb 2015	8	16.54	89.05	8.0	33.36	8.2	24.4	1.49
I39	22 Feb 2015	9	16.52	88.45	7.9	33.36	8.2	24.4	1.72
I39	22 Feb 2015	10	16.40	88.13	8.0	33.35	8.2	24.4	1.98
I39	22 Feb 2015	11	16.36	87.87	8.0	33.35	8.2	24.4	2.06
I39	22 Feb 2015	12	16.32	87.66	8.0	33.35	8.2	24.4	1.87
I39	22 Feb 2015	13	16.10	87.61	8.0	33.33	8.2	24.4	1.94
I39	22 Feb 2015	14	15.98	88.00	7.9	33.33	8.2	24.5	1.99
I39	22 Feb 2015	15	15.89	88.04	7.9	33.33	8.2	24.5	2.07
I39	22 Feb 2015	16	15.76	88.02	7.8	33.32	8.2	24.5	2.12
I39	22 Feb 2015	17	15.21	87.96	7.6	33.28	8.2	24.6	1.77
I39	22 Feb 2015	18	14.76	87.77	7.5	33.29	8.1	24.7	1.58
I39	27 Feb 2015	1	16.21	89.77	7.9	33.35	8.1	24.4	1.11
I39	27 Feb 2015	2	16.21	89.98	7.9	33.34	8.1	24.4	1.12
I39	27 Feb 2015	3	16.21	89.90	7.9	33.35	8.1	24.4	1.14
I39	27 Feb 2015	4	16.20	89.94	7.9	33.35	8.1	24.4	1.18
I39	27 Feb 2015	5	16.20	90.21	7.9	33.35	8.1	24.4	1.20
I39	27 Feb 2015	6	16.17	90.22	7.8	33.33	8.1	24.4	1.37
I39	27 Feb 2015	7	15.54	90.27	7.8	33.25	8.1	24.5	1.75
I39	27 Feb 2015	8	14.93	89.64	7.8	33.25	8.1	24.6	2.02
I39	27 Feb 2015	9	14.55	89.38	7.8	33.24	8.1	24.7	2.32
I39	27 Feb 2015	10	14.31	89.22	7.7	33.23	8.1	24.8	2.50
I39	27 Feb 2015	11	14.26	88.34	7.7	33.24	8.1	24.8	2.52
I39	27 Feb 2015	12	14.23	87.84	7.6	33.23	8.1	24.8	2.48
I39	27 Feb 2015	13	14.16	87.54	7.5	33.23	8.1	24.8	2.31
I39	27 Feb 2015	14	14.08	87.41	7.4	33.24	8.1	24.8	2.08
I39	27 Feb 2015	15	14.01	86.98	7.4	33.24	8.1	24.8	2.00
I39	27 Feb 2015	16	13.98	86.48	7.4	33.24	8.1	24.8	1.96
I39	27 Feb 2015	17	13.98	86.20	7.4	33.24	8.1	24.8	1.94
I39	27 Feb 2015	18	13.98	85.94	7.4	33.24	8.1	24.8	1.91
I40	04 Feb 2015	1	16.44	68.34	8.0	33.37	8.2	24.4	1.31
I40	04 Feb 2015	2	16.40	68.15	8.0	33.38	8.2	24.4	1.53
I40	04 Feb 2015	3	16.38	68.06	8.0	33.38	8.2	24.4	2.03
I40	04 Feb 2015	4	16.35	67.97	7.9	33.40	8.2	24.4	2.48
I40	04 Feb 2015	5	16.34	67.96	7.7	33.42	8.2	24.5	2.73
I40	04 Feb 2015	6	16.29	67.73	7.7	33.43	8.2	24.5	3.00
I40	04 Feb 2015	7	16.24	68.51	7.7	33.43	8.2	24.5	3.24
I40	04 Feb 2015	8	16.21	67.59	7.5	33.43	8.2	24.5	3.31
I40	04 Feb 2015	9	16.20	60.88	7.3	33.43	8.2	24.5	3.25
I40	04 Feb 2015	10	16.19	54.30	7.1	33.44	8.1	24.5	3.40
I40	12 Feb 2015	1	13.54	33.13	6.9	33.32	8.1	25.0	0.81
I40	12 Feb 2015	2	13.53	33.49	6.9	33.32	8.1	25.0	0.85
I40	12 Feb 2015	3	13.51	34.79	6.8	33.32	8.1	25.0	1.03
I40	12 Feb 2015	4	13.47	34.82	6.8	33.32	8.1	25.0	1.22
I40	12 Feb 2015	5	13.45	35.49	6.8	33.32	8.1	25.0	1.35
I40	12 Feb 2015	6	13.45	36.15	6.7	33.32	8.1	25.0	1.39

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I40	12 Feb 2015	7	13.38	36.32	6.7	33.32	8.1	25.0	1.40
I40	12 Feb 2015	8	13.29	36.82	6.6	33.31	8.1	25.0	1.39
I40	12 Feb 2015	9	12.85	36.72	6.4	33.32	8.1	25.1	1.50
I40	12 Feb 2015	10	12.60	35.78	6.2	33.32	8.1	25.2	1.69
I40	18 Feb 2015	1	16.27	80.54	8.1	33.34	8.2	24.4	0.51
I40	18 Feb 2015	2	16.13	80.57	8.1	33.34	8.2	24.4	0.55
I40	18 Feb 2015	3	16.04	80.23	8.1	33.34	8.2	24.5	0.65
I40	18 Feb 2015	4	16.01	80.85	8.1	33.34	8.2	24.5	0.73
I40	18 Feb 2015	5	16.00	82.45	8.1	33.34	8.2	24.5	0.82
I40	18 Feb 2015	6	15.99	83.45	8.1	33.34	8.2	24.5	0.92
I40	18 Feb 2015	7	15.98	84.43	8.1	33.34	8.2	24.5	1.02
I40	18 Feb 2015	8	15.96	84.65	8.2	33.34	8.2	24.5	1.02
I40	18 Feb 2015	9	15.95	85.54	8.2	33.34	8.2	24.5	1.02
I40	18 Feb 2015	10	15.91	86.70	8.1	33.34	8.2	24.5	1.06
I40	22 Feb 2015	1	16.46	77.51	8.0	33.35	8.2	24.4	1.57
I40	22 Feb 2015	2	16.45	77.58	8.1	33.35	8.2	24.4	1.70
I40	22 Feb 2015	3	16.44	77.79	8.1	33.35	8.2	24.4	2.07
I40	22 Feb 2015	4	16.42	77.58	8.1	33.35	8.2	24.4	2.44
I40	22 Feb 2015	5	16.41	77.84	8.2	33.35	8.2	24.4	2.57
I40	22 Feb 2015	6	16.40	77.85	8.2	33.35	8.2	24.4	2.74
I40	22 Feb 2015	7	16.39	77.60	8.2	33.35	8.2	24.4	2.81
I40	22 Feb 2015	8	16.38	77.13	8.0	33.35	8.2	24.4	3.07
I40	22 Feb 2015	9	16.19	76.13	7.7	33.34	8.2	24.4	3.99
I40	22 Feb 2015	10	15.77	63.85	7.0	33.30	8.1	24.5	5.44
I40	27 Feb 2015	1	16.37	73.17	7.9	33.20	8.2	24.3	1.76
I40	27 Feb 2015	2	16.37	73.02	8.0	33.20	8.2	24.3	2.02
I40	27 Feb 2015	3	16.39	73.22	7.9	33.22	8.2	24.3	2.55
I40	27 Feb 2015	4	16.43	72.90	7.9	33.26	8.2	24.3	3.18
I40	27 Feb 2015	5	16.44	71.82	7.8	33.26	8.2	24.3	3.41
I40	27 Feb 2015	6	16.43	70.36	7.7	33.27	8.2	24.3	3.41
I40	27 Feb 2015	7	16.40	65.11	7.7	33.27	8.2	24.3	3.15
I40	27 Feb 2015	8	16.30	65.07	7.6	33.28	8.2	24.4	2.84
I40	27 Feb 2015	9	16.28	62.25	7.5	33.28	8.2	24.4	2.90
I40	27 Feb 2015	10	16.12	60.89	7.3	33.28	8.2	24.4	3.94

This page intentionally left blank



***OFFSHORE STATIONS***



**Table 4.1**

Summary of compliance with the 2012 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.

<b>Date</b>	<b>I12</b>	<b>I14</b>	<b>I16</b>	<b>I18</b>	<b>I22</b>	<b>I23</b>	<b>I33</b>	<b>I36</b>	<b>I37</b>	<b>I38</b>
04 Feb 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Feb 2015	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 2012 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.

<b>Date</b>	<b>I12</b>	<b>I14</b>	<b>I16</b>	<b>I18</b>	<b>I22</b>	<b>I23</b>	<b>I33</b>	<b>I36</b>	<b>I37</b>	<b>I38</b>
04 Feb 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Feb 2015	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 2012 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.

<b>Date</b>	<b>I12</b>	<b>I14</b>	<b>I16</b>	<b>I18</b>	<b>I22</b>	<b>I23</b>	<b>I33</b>	<b>I36</b>	<b>I37</b>	<b>I38</b>
04 Feb 2015	E	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Feb 2015	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 2012 Ocean Plan's Single Sample Maximum standard for total coliforms 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.

<b>Date</b>	<b>I12</b>	<b>I14</b>	<b>I16</b>	<b>I18</b>	<b>I22</b>	<b>I23</b>	<b>I33</b>	<b>I36</b>	<b>I37</b>	<b>I38</b>
04 Feb 2015	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns
05 Feb 2015	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled



Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I16	04 Feb 2015	1109	18	6e	4e	<2	0.67	16.2	87.41	8.0	33.38	8.2	ns	<0.2
I16	04 Feb 2015	1109	27	2e	<2	<2	1.00	14.9	79.30	7.3	33.34	8.1	ns	2.6
I18	04 Feb 2015	1035	2	<2	<2	<2	1.00	16.6	87.16	7.8	33.40	8.2	<0.2	<0.2
I18	04 Feb 2015	1035	12	10e	<2	<2	0.20	16.2	87.15	7.9	33.38	8.2	ns	<0.2
I18	04 Feb 2015	1035	18	<2	<2	<2	1.00	14.9	82.30	7.3	33.33	8.2	ns	<0.2
I20	03 Feb 2015	828	2	16e	2e	<2	0.12	16.5	88.35	7.9	33.41	8.2	<0.2	<0.2
I20	03 Feb 2015	828	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I20	03 Feb 2015	828	18	24e	2e	<2	0.08	16.4	88.35	8.0	33.40	8.2	ns	<0.2
I20	03 Feb 2015	828	55	<2	<2	4e	1.00	13.2	87.80	6.3	33.37	8.0	ns	<0.2
I21	03 Feb 2015	1151	2	<2	<2	<2	1.00	16.7	87.79	8.0	33.41	8.2	<0.2	<0.2
I21	03 Feb 2015	1151	18	<2	<2	<2	1.00	16.2	86.79	8.0	33.40	8.2	ns	<0.2
I21	03 Feb 2015	1151	37	<2	<2	2e	1.00	14.3	86.80	7.0	33.34	8.1	ns	<0.2
I22	04 Feb 2015	1159	2	<2	<2	<2	1.00	16.5	87.01	8.0	33.40	8.2	<0.2	<0.2
I22	04 Feb 2015	1159	18	2e	<2	<2	1.00	15.8	85.68	7.8	33.36	8.2	ns	<0.2
I22	04 Feb 2015	1159	27	<2	<2	<2	1.00	14.9	77.63	7.4	33.34	8.1	ns	5.6
I23	04 Feb 2015	1211	2	<2	<2	<2	1.00	16.7	87.27	7.9	33.40	8.2	<0.2	<0.2
I23	04 Feb 2015	1211	12	4e	2e	<2	0.50	16.4	87.39	7.9	33.40	8.2	ns	<0.2
I23	04 Feb 2015	1211	18	44	<2	<2	0.05	15.9	83.34	7.3	33.36	8.2	ns	<0.2
I30	05 Feb 2015	936	2	<2	<2	<2	1.00	16.3	87.17	8.0	33.40	8.2	<0.2	<0.2
I30	05 Feb 2015	936	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I30	05 Feb 2015	936	18	<2	<2	<2	1.00	15.9	85.29	7.8	33.38	8.2	ns	<0.2
I30	05 Feb 2015	936	27	2e	<2	<2	1.00	14.3	82.93	6.9	33.33	8.2	ns	2.7
I33	05 Feb 2015	837	2	<2	<2	<2	1.00	16.2	86.57	8.0	33.38	8.2	<0.2	<0.2
I33	05 Feb 2015	837	18	<2	<2	<2	1.00	15.1	85.97	7.3	33.35	8.2	ns	<0.2
I33	05 Feb 2015	837	27	2e	4e	2e	2.00	14.5	84.02	7.0	33.34	8.1	ns	<0.2
I36	05 Feb 2015	1030	2	4e	<2	<2	0.50	16.5	73.24	7.7	33.42	8.2	<0.2	<0.2
I36	05 Feb 2015	1030	6	2e	<2	<2	1.00	16.3	67.82	7.3	33.42	8.2	ns	<0.2
I36	05 Feb 2015	1030	11	<20	4e	<2	0.20	16.0	38.71	6.8	33.39	8.2	ns	10.4
I37	05 Feb 2015	806	2	<2	<2	<2	1.00	16.4	79.03	7.7	33.40	8.1	<0.2	<0.2
I37	05 Feb 2015	806	2	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	<0.2*
I37	05 Feb 2015	806	6	<2	<2	<2	1.00	16.3	78.96	7.7	33.40	8.1	ns	<0.2
I37	05 Feb 2015	806	11	<2	<2	<2	1.00	16.3	79.09	7.5	33.40	8.1	ns	2.8
I38	05 Feb 2015	1100	2	<2	<2	<2	1.00	16.5	86.47	7.8	33.41	8.2	<0.2	<0.2
I38	05 Feb 2015	1100	6	<2	<2	<2	1.00	16.4	86.24	7.8	33.41	8.2	ns	<0.2
I38	05 Feb 2015	1100	11	<2	2e	<2	1.00	16.2	75.09	7.1	33.41	8.2	ns	3.7

ns = not sampled



**Table 4.6**

Summary of visual observations made during the month at the SBOO offshore stations for each sample date.

Station	Date	Parameter	Value
I1	03 Feb 2015	Depth (m)	62
I1	03 Feb 2015	Arrive Time	913
I1	03 Feb 2015	Depart Time	917
I1	03 Feb 2015	Air Temp (C)	14
I1	03 Feb 2015	Weather	Fog
I1	03 Feb 2015	Visibility (mi)	3
I1	03 Feb 2015	Wind Speed (kts)	6
I1	03 Feb 2015	Wind Dir	N
I1	03 Feb 2015	Water Color	Blue
I1	03 Feb 2015	Wave Ht Low (ft)	4
I1	03 Feb 2015	Wave Period (sec)	13
I1	03 Feb 2015	Sea State	Wind ripples
I1	03 Feb 2015	High Tide (ft)	5.62
I1	03 Feb 2015	High Tide Time	818
I1	03 Feb 2015	Low Tide (ft)	-0.65
I1	03 Feb 2015	Low Tide Time	1513
I1	03 Feb 2015	Comments	
I2	03 Feb 2015	Depth (m)	34
I2	03 Feb 2015	Arrive Time	938
I2	03 Feb 2015	Depart Time	942
I2	03 Feb 2015	Air Temp (C)	14
I2	03 Feb 2015	Weather	Fog
I2	03 Feb 2015	Visibility (mi)	6
I2	03 Feb 2015	Wind Speed (kts)	7
I2	03 Feb 2015	Wind Dir	NE
I2	03 Feb 2015	Water Color	Greenish-Blue
I2	03 Feb 2015	Wave Ht Low (ft)	4
I2	03 Feb 2015	Wave Period (sec)	13
I2	03 Feb 2015	Sea State	Wind ripples
I2	03 Feb 2015	High Tide (ft)	5.62
I2	03 Feb 2015	High Tide Time	818
I2	03 Feb 2015	Low Tide (ft)	-0.65
I2	03 Feb 2015	Low Tide Time	1513
I2	03 Feb 2015	Comments	
I3	03 Feb 2015	Depth (m)	28
I3	03 Feb 2015	Arrive Time	951
I3	03 Feb 2015	Depart Time	959
I3	03 Feb 2015	Air Temp (C)	14
I3	03 Feb 2015	Weather	Fog
I3	03 Feb 2015	Visibility (mi)	6

Station	Date	Parameter	Value
I3	03 Feb 2015	Wind Speed (kts)	3
I3	03 Feb 2015	Wind Dir	S
I3	03 Feb 2015	Water Color	Greenish-Blue
I3	03 Feb 2015	Wave Ht Low (ft)	4
I3	03 Feb 2015	Wave Period (sec)	13
I3	03 Feb 2015	Sea State	Wind ripples
I3	03 Feb 2015	High Tide (ft)	5.62
I3	03 Feb 2015	High Tide Time	818
I3	03 Feb 2015	Low Tide (ft)	-0.65
I3	03 Feb 2015	Low Tide Time	1513
I3	03 Feb 2015	Comments	
I4	03 Feb 2015	Depth (m)	21
I4	03 Feb 2015	Arrive Time	1003
I4	03 Feb 2015	Depart Time	1007
I4	03 Feb 2015	Air Temp (C)	15
I4	03 Feb 2015	Weather	Fog
I4	03 Feb 2015	Visibility (mi)	6
I4	03 Feb 2015	Wind Speed (kts)	6
I4	03 Feb 2015	Wind Dir	NE
I4	03 Feb 2015	Water Color	Greenish-Blue
I4	03 Feb 2015	Wave Ht Low (ft)	4
I4	03 Feb 2015	Wave Period (sec)	13
I4	03 Feb 2015	Sea State	Wind ripples
I4	03 Feb 2015	High Tide (ft)	5.62
I4	03 Feb 2015	High Tide Time	818
I4	03 Feb 2015	Low Tide (ft)	-0.65
I4	03 Feb 2015	Low Tide Time	1513
I4	03 Feb 2015	Comments	
I5	03 Feb 2015	Depth (m)	15
I5	03 Feb 2015	Arrive Time	1012
I5	03 Feb 2015	Depart Time	1017
I5	03 Feb 2015	Air Temp (C)	15
I5	03 Feb 2015	Weather	Fog
I5	03 Feb 2015	Visibility (mi)	6
I5	03 Feb 2015	Wind Speed (kts)	2
I5	03 Feb 2015	Wind Dir	NE
I5	03 Feb 2015	Water Color	Green
I5	03 Feb 2015	Wave Ht Low (ft)	4
I5	03 Feb 2015	Wave Period (sec)	13
I5	03 Feb 2015	Sea State	Light chop
I5	03 Feb 2015	High Tide (ft)	5.62
I5	03 Feb 2015	High Tide Time	818
I5	03 Feb 2015	Low Tide (ft)	-0.65
I5	03 Feb 2015	Low Tide Time	1513
I5	03 Feb 2015	Comments	

Station	Date	Parameter	Value
16	03 Feb 2015	Depth (m)	19
16	03 Feb 2015	Arrive Time	1028
16	03 Feb 2015	Depart Time	1032
16	03 Feb 2015	Air Temp (C)	14
16	03 Feb 2015	Weather	Fog
16	03 Feb 2015	Visibility (mi)	1
16	03 Feb 2015	Wind Speed (kts)	8
16	03 Feb 2015	Wind Dir	N
16	03 Feb 2015	Water Color	Blue
16	03 Feb 2015	Wave Ht Low (ft)	4
16	03 Feb 2015	Wave Period (sec)	13
16	03 Feb 2015	Sea State	Light chop
16	03 Feb 2015	High Tide (ft)	5.62
16	03 Feb 2015	High Tide Time	818
16	03 Feb 2015	Low Tide (ft)	-0.65
16	03 Feb 2015	Low Tide Time	1513
16	03 Feb 2015	Comments	
17	03 Feb 2015	Depth (m)	52
17	03 Feb 2015	Arrive Time	851
17	03 Feb 2015	Depart Time	858
17	03 Feb 2015	Air Temp (C)	14
17	03 Feb 2015	Weather	Fog
17	03 Feb 2015	Visibility (mi)	3
17	03 Feb 2015	Wind Speed (kts)	5
17	03 Feb 2015	Wind Dir	W
17	03 Feb 2015	Water Color	Blue
17	03 Feb 2015	Wave Ht Low (ft)	4
17	03 Feb 2015	Wave Period (sec)	13
17	03 Feb 2015	Sea State	Wind ripples
17	03 Feb 2015	High Tide (ft)	5.62
17	03 Feb 2015	High Tide Time	818
17	03 Feb 2015	Low Tide (ft)	-0.65
17	03 Feb 2015	Low Tide Time	1513
17	03 Feb 2015	Comments	
18	03 Feb 2015	Depth (m)	36
18	03 Feb 2015	Arrive Time	1119
18	03 Feb 2015	Depart Time	1127
18	03 Feb 2015	Air Temp (C)	13
18	03 Feb 2015	Weather	Fog
18	03 Feb 2015	Visibility (mi)	1
18	03 Feb 2015	Wind Speed (kts)	6
18	03 Feb 2015	Wind Dir	NE
18	03 Feb 2015	Water Color	Blue
18	03 Feb 2015	Wave Ht Low (ft)	4

Station	Date	Parameter	Value
I8	03 Feb 2015	Wave Period (sec)	13
I8	03 Feb 2015	Sea State	Light chop
I8	03 Feb 2015	High Tide (ft)	5.62
I8	03 Feb 2015	High Tide Time	818
I8	03 Feb 2015	Low Tide (ft)	-0.65
I8	03 Feb 2015	Low Tide Time	1513
I8	03 Feb 2015	Comments	
I9	03 Feb 2015	Depth (m)	30
I9	03 Feb 2015	Arrive Time	1106
I9	03 Feb 2015	Depart Time	1110
I9	03 Feb 2015	Air Temp (C)	14
I9	03 Feb 2015	Weather	Fog
I9	03 Feb 2015	Visibility (mi)	3
I9	03 Feb 2015	Wind Speed (kts)	2
I9	03 Feb 2015	Wind Dir	W
I9	03 Feb 2015	Water Color	Blue
I9	03 Feb 2015	Wave Ht Low (ft)	4
I9	03 Feb 2015	Wave Period (sec)	13
I9	03 Feb 2015	Sea State	Light chop
I9	03 Feb 2015	High Tide (ft)	5.62
I9	03 Feb 2015	High Tide Time	818
I9	03 Feb 2015	Low Tide (ft)	-0.65
I9	03 Feb 2015	Low Tide Time	1513
I9	03 Feb 2015	Comments	
I10	03 Feb 2015	Depth (m)	21
I10	03 Feb 2015	Arrive Time	1053
I10	03 Feb 2015	Depart Time	1059
I10	03 Feb 2015	Air Temp (C)	13
I10	03 Feb 2015	Weather	Fog
I10	03 Feb 2015	Visibility (mi)	2
I10	03 Feb 2015	Wind Speed (kts)	5
I10	03 Feb 2015	Wind Dir	W
I10	03 Feb 2015	Water Color	Green
I10	03 Feb 2015	Wave Ht Low (ft)	4
I10	03 Feb 2015	Wave Period (sec)	13
I10	03 Feb 2015	Sea State	Light chop
I10	03 Feb 2015	High Tide (ft)	5.62
I10	03 Feb 2015	High Tide Time	818
I10	03 Feb 2015	Low Tide (ft)	-0.65
I10	03 Feb 2015	Low Tide Time	1513
I10	03 Feb 2015	Comments	
I11	03 Feb 2015	Depth (m)	14
I11	03 Feb 2015	Arrive Time	1042
I11	03 Feb 2015	Depart Time	1046

Station	Date	Parameter	Value
I11	03 Feb 2015	Air Temp (C)	14
I11	03 Feb 2015	Weather	Fog
I11	03 Feb 2015	Visibility (mi)	1
I11	03 Feb 2015	Wind Speed (kts)	2
I11	03 Feb 2015	Wind Dir	E
I11	03 Feb 2015	Water Color	Blue
I11	03 Feb 2015	Wave Ht Low (ft)	4
I11	03 Feb 2015	Wave Period (sec)	13
I11	03 Feb 2015	Sea State	Light chop
I11	03 Feb 2015	High Tide (ft)	5.62
I11	03 Feb 2015	High Tide Time	818
I11	03 Feb 2015	Low Tide (ft)	-0.65
I11	03 Feb 2015	Low Tide Time	1513
I11	03 Feb 2015	Comments	
I12	04 Feb 2015	Depth (m)	29
I12	04 Feb 2015	Arrive Time	1123
I12	04 Feb 2015	Depart Time	1130
I12	04 Feb 2015	Air Temp (C)	15
I12	04 Feb 2015	Weather	Haze
I12	04 Feb 2015	Visibility (mi)	10
I12	04 Feb 2015	Wind Speed (kts)	6
I12	04 Feb 2015	Wind Dir	N
I12	04 Feb 2015	Water Color	Bluish-Green
I12	04 Feb 2015	Wave Ht Low (ft)	3
I12	04 Feb 2015	Wave Period (sec)	9
I12	04 Feb 2015	Sea State	Calm
I12	04 Feb 2015	High Tide (ft)	5.48
I12	04 Feb 2015	High Tide Time	849
I12	04 Feb 2015	Low Tide (ft)	-0.51
I12	04 Feb 2015	Low Tide Time	1540
I12	04 Feb 2015	Comments	Plume is visable at surface
I13	03 Feb 2015	Depth (m)	39
I13	03 Feb 2015	Arrive Time	1134
I13	03 Feb 2015	Depart Time	1139
I13	03 Feb 2015	Air Temp (C)	14
I13	03 Feb 2015	Weather	Fog
I13	03 Feb 2015	Visibility (mi)	< 1
I13	03 Feb 2015	Wind Speed (kts)	4
I13	03 Feb 2015	Wind Dir	N
I13	03 Feb 2015	Water Color	Blue
I13	03 Feb 2015	Wave Ht Low (ft)	4
I13	03 Feb 2015	Wave Period (sec)	13
I13	03 Feb 2015	Sea State	Light chop
I13	03 Feb 2015	High Tide (ft)	5.62
I13	03 Feb 2015	High Tide Time	818

Station	Date	Parameter	Value
I13	03 Feb 2015	Low Tide (ft)	-0.65
I13	03 Feb 2015	Low Tide Time	1513
I13	03 Feb 2015	Comments	
I14	04 Feb 2015	Depth (m)	29
I14	04 Feb 2015	Arrive Time	1147
I14	04 Feb 2015	Depart Time	1151
I14	04 Feb 2015	Air Temp (C)	15
I14	04 Feb 2015	Weather	Haze
I14	04 Feb 2015	Visibility (mi)	10
I14	04 Feb 2015	Wind Speed (kts)	7
I14	04 Feb 2015	Wind Dir	E
I14	04 Feb 2015	Water Color	Bluish-Green
I14	04 Feb 2015	Wave Ht Low (ft)	3
I14	04 Feb 2015	Wave Period (sec)	9
I14	04 Feb 2015	Sea State	Calm
I14	04 Feb 2015	High Tide (ft)	5.48
I14	04 Feb 2015	High Tide Time	849
I14	04 Feb 2015	Low Tide (ft)	-0.51
I14	04 Feb 2015	Low Tide Time	1540
I14	04 Feb 2015	Comments	
I15	04 Feb 2015	Depth (m)	32
I15	04 Feb 2015	Arrive Time	1140
I15	04 Feb 2015	Depart Time	1143
I15	04 Feb 2015	Air Temp (C)	15
I15	04 Feb 2015	Weather	Haze
I15	04 Feb 2015	Visibility (mi)	10
I15	04 Feb 2015	Wind Speed (kts)	8
I15	04 Feb 2015	Wind Dir	SW
I15	04 Feb 2015	Water Color	Bluish-Green
I15	04 Feb 2015	Wave Ht Low (ft)	3
I15	04 Feb 2015	Wave Period (sec)	9
I15	04 Feb 2015	Sea State	Calm
I15	04 Feb 2015	High Tide (ft)	5.48
I15	04 Feb 2015	High Tide Time	849
I15	04 Feb 2015	Low Tide (ft)	-0.51
I15	04 Feb 2015	Low Tide Time	1540
I15	04 Feb 2015	Comments	
I16	04 Feb 2015	Depth (m)	29
I16	04 Feb 2015	Arrive Time	1109
I16	04 Feb 2015	Depart Time	1116
I16	04 Feb 2015	Air Temp (C)	15
I16	04 Feb 2015	Weather	Haze
I16	04 Feb 2015	Visibility (mi)	10
I16	04 Feb 2015	Wind Speed (kts)	3

Station	Date	Parameter	Value
I16	04 Feb 2015	Wind Dir	W
I16	04 Feb 2015	Water Color	Bluish-Green
I16	04 Feb 2015	Wave Ht Low (ft)	3
I16	04 Feb 2015	Wave Period (sec)	9
I16	04 Feb 2015	Sea State	Calm
I16	04 Feb 2015	High Tide (ft)	5.48
I16	04 Feb 2015	High Tide Time	849
I16	04 Feb 2015	Low Tide (ft)	-0.51
I16	04 Feb 2015	Low Tide Time	1540
I16	04 Feb 2015	Comments	
I17	04 Feb 2015	Depth (m)	26
I17	04 Feb 2015	Arrive Time	1055
I17	04 Feb 2015	Depart Time	1100
I17	04 Feb 2015	Air Temp (C)	14
I17	04 Feb 2015	Weather	Haze
I17	04 Feb 2015	Visibility (mi)	10
I17	04 Feb 2015	Wind Speed (kts)	7
I17	04 Feb 2015	Wind Dir	S
I17	04 Feb 2015	Water Color	Greenish-Blue
I17	04 Feb 2015	Wave Ht Low (ft)	3
I17	04 Feb 2015	Wave Period (sec)	9
I17	04 Feb 2015	Sea State	Calm
I17	04 Feb 2015	High Tide (ft)	5.48
I17	04 Feb 2015	High Tide Time	849
I17	04 Feb 2015	Low Tide (ft)	-0.51
I17	04 Feb 2015	Low Tide Time	1540
I17	04 Feb 2015	Comments	
I18	04 Feb 2015	Depth (m)	19
I18	04 Feb 2015	Arrive Time	1035
I18	04 Feb 2015	Depart Time	1042
I18	04 Feb 2015	Air Temp (C)	14
I18	04 Feb 2015	Weather	Haze
I18	04 Feb 2015	Visibility (mi)	10
I18	04 Feb 2015	Wind Speed (kts)	6
I18	04 Feb 2015	Wind Dir	SE
I18	04 Feb 2015	Water Color	Green
I18	04 Feb 2015	Wave Ht Low (ft)	3
I18	04 Feb 2015	Wave Period (sec)	9
I18	04 Feb 2015	Sea State	Calm
I18	04 Feb 2015	High Tide (ft)	5.48
I18	04 Feb 2015	High Tide Time	849
I18	04 Feb 2015	Low Tide (ft)	-0.51
I18	04 Feb 2015	Low Tide Time	1540
I18	04 Feb 2015	Comments	

Station	Date	Parameter	Value
I20	03 Feb 2015	Depth (m)	56
I20	03 Feb 2015	Arrive Time	828
I20	03 Feb 2015	Depart Time	838
I20	03 Feb 2015	Air Temp (C)	13
I20	03 Feb 2015	Weather	Fog
I20	03 Feb 2015	Visibility (mi)	2
I20	03 Feb 2015	Wind Speed (kts)	4
I20	03 Feb 2015	Wind Dir	W
I20	03 Feb 2015	Water Color	Blue
I20	03 Feb 2015	Wave Ht Low (ft)	4
I20	03 Feb 2015	Wave Period (sec)	13
I20	03 Feb 2015	Sea State	Wind ripples
I20	03 Feb 2015	High Tide (ft)	5.62
I20	03 Feb 2015	High Tide Time	818
I20	03 Feb 2015	Low Tide (ft)	-0.65
I20	03 Feb 2015	Low Tide Time	1513
I20	03 Feb 2015	Comments	
I21	03 Feb 2015	Depth (m)	41
I21	03 Feb 2015	Arrive Time	1151
I21	03 Feb 2015	Depart Time	1159
I21	03 Feb 2015	Air Temp (C)	15
I21	03 Feb 2015	Weather	Fog
I21	03 Feb 2015	Visibility (mi)	2
I21	03 Feb 2015	Wind Speed (kts)	6
I21	03 Feb 2015	Wind Dir	NE
I21	03 Feb 2015	Water Color	Blue
I21	03 Feb 2015	Wave Ht Low (ft)	4
I21	03 Feb 2015	Wave Period (sec)	13
I21	03 Feb 2015	Sea State	Light chop
I21	03 Feb 2015	High Tide (ft)	5.62
I21	03 Feb 2015	High Tide Time	818
I21	03 Feb 2015	Low Tide (ft)	-0.65
I21	03 Feb 2015	Low Tide Time	1513
I21	03 Feb 2015	Comments	
I22	04 Feb 2015	Depth (m)	29
I22	04 Feb 2015	Arrive Time	1159
I22	04 Feb 2015	Depart Time	1203
I22	04 Feb 2015	Air Temp (C)	15
I22	04 Feb 2015	Weather	Haze
I22	04 Feb 2015	Visibility (mi)	10
I22	04 Feb 2015	Wind Speed (kts)	7
I22	04 Feb 2015	Wind Dir	S
I22	04 Feb 2015	Water Color	Bluish-Green
I22	04 Feb 2015	Wave Ht Low (ft)	3
I22	04 Feb 2015	Wave Period (sec)	9



Station	Date	Parameter	Value
I22	04 Feb 2015	Sea State	Calm
I22	04 Feb 2015	High Tide (ft)	5.48
I22	04 Feb 2015	High Tide Time	849
I22	04 Feb 2015	Low Tide (ft)	-0.51
I22	04 Feb 2015	Low Tide Time	1540
I22	04 Feb 2015	Comments	
I23	04 Feb 2015	Depth (m)	22
I23	04 Feb 2015	Arrive Time	1211
I23	04 Feb 2015	Depart Time	1216
I23	04 Feb 2015	Air Temp (C)	15
I23	04 Feb 2015	Weather	Haze
I23	04 Feb 2015	Visibility (mi)	10
I23	04 Feb 2015	Wind Speed (kts)	8
I23	04 Feb 2015	Wind Dir	NW
I23	04 Feb 2015	Water Color	Bluish-Green
I23	04 Feb 2015	Wave Ht Low (ft)	3
I23	04 Feb 2015	Wave Period (sec)	9
I23	04 Feb 2015	Sea State	Calm
I23	04 Feb 2015	High Tide (ft)	5.48
I23	04 Feb 2015	High Tide Time	849
I23	04 Feb 2015	Low Tide (ft)	-0.51
I23	04 Feb 2015	Low Tide Time	1540
I23	04 Feb 2015	Comments	
I27	04 Feb 2015	Depth (m)	30
I27	04 Feb 2015	Arrive Time	834
I27	04 Feb 2015	Depart Time	840
I27	04 Feb 2015	Air Temp (C)	11
I27	04 Feb 2015	Weather	Fog
I27	04 Feb 2015	Visibility (mi)	1
I27	04 Feb 2015	Wind Speed (kts)	4
I27	04 Feb 2015	Wind Dir	E
I27	04 Feb 2015	Water Color	Greenish-Blue
I27	04 Feb 2015	Wave Ht Low (ft)	3
I27	04 Feb 2015	Wave Period (sec)	9
I27	04 Feb 2015	Sea State	Calm
I27	04 Feb 2015	High Tide (ft)	5.48
I27	04 Feb 2015	High Tide Time	849
I27	04 Feb 2015	Low Tide (ft)	-0.51
I27	04 Feb 2015	Low Tide Time	1540
I27	04 Feb 2015	Comments	
I28	05 Feb 2015	Depth (m)	58
I28	05 Feb 2015	Arrive Time	900
I28	05 Feb 2015	Depart Time	907
I28	05 Feb 2015	Air Temp (C)	13

Station	Date	Parameter	Value
I28	05 Feb 2015	Weather	Fog
I28	05 Feb 2015	Visibility (mi)	1
I28	05 Feb 2015	Wind Speed (kts)	4
I28	05 Feb 2015	Wind Dir	E
I28	05 Feb 2015	Water Color	Green
I28	05 Feb 2015	Wave Ht Low (ft)	2
I28	05 Feb 2015	Wave Period (sec)	9
I28	05 Feb 2015	Sea State	Calm
I28	05 Feb 2015	High Tide (ft)	5.24
I28	05 Feb 2015	High Tide Time	920
I28	05 Feb 2015	Low Tide (ft)	-0.3
I28	05 Feb 2015	Low Tide Time	1606
I28	05 Feb 2015	Comments	
I29	05 Feb 2015	Depth (m)	39
I29	05 Feb 2015	Arrive Time	921
I29	05 Feb 2015	Depart Time	927
I29	05 Feb 2015	Air Temp (C)	13
I29	05 Feb 2015	Weather	Fog
I29	05 Feb 2015	Visibility (mi)	1
I29	05 Feb 2015	Wind Speed (kts)	2
I29	05 Feb 2015	Wind Dir	NW
I29	05 Feb 2015	Water Color	Green
I29	05 Feb 2015	Wave Ht Low (ft)	2
I29	05 Feb 2015	Wave Period (sec)	9
I29	05 Feb 2015	Sea State	Calm
I29	05 Feb 2015	High Tide (ft)	5.24
I29	05 Feb 2015	High Tide Time	920
I29	05 Feb 2015	Low Tide (ft)	-0.3
I29	05 Feb 2015	Low Tide Time	1606
I29	05 Feb 2015	Comments	
I30	05 Feb 2015	Depth (m)	29
I30	05 Feb 2015	Arrive Time	936
I30	05 Feb 2015	Depart Time	941
I30	05 Feb 2015	Air Temp (C)	13
I30	05 Feb 2015	Weather	Partly Cloudy
I30	05 Feb 2015	Visibility (mi)	4
I30	05 Feb 2015	Wind Speed (kts)	2
I30	05 Feb 2015	Wind Dir	SW
I30	05 Feb 2015	Water Color	Green
I30	05 Feb 2015	Wave Ht Low (ft)	2
I30	05 Feb 2015	Wave Period (sec)	9
I30	05 Feb 2015	Sea State	Calm
I30	05 Feb 2015	High Tide (ft)	5.24
I30	05 Feb 2015	High Tide Time	920
I30	05 Feb 2015	Low Tide (ft)	-0.3

Station	Date	Parameter	Value
I30	05 Feb 2015	Low Tide Time	1606
I30	05 Feb 2015	Comments	
I31	05 Feb 2015	Depth (m)	21
I31	05 Feb 2015	Arrive Time	952
I31	05 Feb 2015	Depart Time	959
I31	05 Feb 2015	Air Temp (C)	13
I31	05 Feb 2015	Weather	Partly Cloudy
I31	05 Feb 2015	Visibility (mi)	4
I31	05 Feb 2015	Wind Speed (kts)	1
I31	05 Feb 2015	Wind Dir	NE
I31	05 Feb 2015	Water Color	Green
I31	05 Feb 2015	Wave Ht Low (ft)	2
I31	05 Feb 2015	Wave Period (sec)	9
I31	05 Feb 2015	Sea State	Calm
I31	05 Feb 2015	High Tide (ft)	5.24
I31	05 Feb 2015	High Tide Time	920
I31	05 Feb 2015	Low Tide (ft)	-0.3
I31	05 Feb 2015	Low Tide Time	1606
I31	05 Feb 2015	Comments	
I33	05 Feb 2015	Depth (m)	32
I33	05 Feb 2015	Arrive Time	837
I33	05 Feb 2015	Depart Time	847
I33	05 Feb 2015	Air Temp (C)	13
I33	05 Feb 2015	Weather	Fog
I33	05 Feb 2015	Visibility (mi)	1
I33	05 Feb 2015	Wind Speed (kts)	3
I33	05 Feb 2015	Wind Dir	W
I33	05 Feb 2015	Water Color	Green
I33	05 Feb 2015	Wave Ht Low (ft)	2
I33	05 Feb 2015	Wave Period (sec)	9
I33	05 Feb 2015	Sea State	Calm
I33	05 Feb 2015	High Tide (ft)	5.24
I33	05 Feb 2015	High Tide Time	920
I33	05 Feb 2015	Low Tide (ft)	-0.3
I33	05 Feb 2015	Low Tide Time	1606
I33	05 Feb 2015	Comments	
I34	05 Feb 2015	Depth (m)	21
I34	05 Feb 2015	Arrive Time	821
I34	05 Feb 2015	Depart Time	828
I34	05 Feb 2015	Air Temp (C)	13
I34	05 Feb 2015	Weather	Fog
I34	05 Feb 2015	Visibility (mi)	1
I34	05 Feb 2015	Wind Speed (kts)	1
I34	05 Feb 2015	Wind Dir	W

Station	Date	Parameter	Value
I34	05 Feb 2015	Water Color	Green
I34	05 Feb 2015	Wave Ht Low (ft)	2
I34	05 Feb 2015	Wave Period (sec)	9
I34	05 Feb 2015	Sea State	Calm
I34	05 Feb 2015	High Tide (ft)	5.24
I34	05 Feb 2015	High Tide Time	920
I34	05 Feb 2015	Low Tide (ft)	-0.3
I34	05 Feb 2015	Low Tide Time	1606
I34	05 Feb 2015	Comments	
I35	05 Feb 2015	Depth (m)	20
I35	05 Feb 2015	Arrive Time	1045
I35	05 Feb 2015	Depart Time	1050
I35	05 Feb 2015	Air Temp (C)	14
I35	05 Feb 2015	Weather	Fog
I35	05 Feb 2015	Visibility (mi)	2
I35	05 Feb 2015	Wind Speed (kts)	5
I35	05 Feb 2015	Wind Dir	S
I35	05 Feb 2015	Water Color	Green
I35	05 Feb 2015	Wave Ht Low (ft)	2
I35	05 Feb 2015	Wave Period (sec)	9
I35	05 Feb 2015	Sea State	Calm
I35	05 Feb 2015	High Tide (ft)	5.24
I35	05 Feb 2015	High Tide Time	920
I35	05 Feb 2015	Low Tide (ft)	-0.3
I35	05 Feb 2015	Low Tide Time	1606
I35	05 Feb 2015	Comments	Boats
I36	05 Feb 2015	Depth (m)	13
I36	05 Feb 2015	Arrive Time	1030
I36	05 Feb 2015	Depart Time	1036
I36	05 Feb 2015	Air Temp (C)	14
I36	05 Feb 2015	Weather	Fog
I36	05 Feb 2015	Visibility (mi)	2
I36	05 Feb 2015	Wind Speed (kts)	5
I36	05 Feb 2015	Wind Dir	N
I36	05 Feb 2015	Water Color	Green
I36	05 Feb 2015	Wave Ht Low (ft)	2
I36	05 Feb 2015	Wave Period (sec)	9
I36	05 Feb 2015	Sea State	Calm
I36	05 Feb 2015	High Tide (ft)	5.24
I36	05 Feb 2015	High Tide Time	920
I36	05 Feb 2015	Low Tide (ft)	-0.3
I36	05 Feb 2015	Low Tide Time	1606
I36	05 Feb 2015	Comments	
I37	05 Feb 2015	Depth (m)	14

Station	Date	Parameter	Value
I37	05 Feb 2015	Arrive Time	806
I37	05 Feb 2015	Depart Time	811
I37	05 Feb 2015	Air Temp (C)	13
I37	05 Feb 2015	Weather	Fog
I37	05 Feb 2015	Visibility (mi)	1
I37	05 Feb 2015	Wind Speed (kts)	0
I37	05 Feb 2015	Wind Dir	
I37	05 Feb 2015	Water Color	Green
I37	05 Feb 2015	Wave Ht Low (ft)	2
I37	05 Feb 2015	Wave Period (sec)	9
I37	05 Feb 2015	Sea State	Calm
I37	05 Feb 2015	High Tide (ft)	5.24
I37	05 Feb 2015	High Tide Time	920
I37	05 Feb 2015	Low Tide (ft)	-0.3
I37	05 Feb 2015	Low Tide Time	1606
I37	05 Feb 2015	Comments	
I38	05 Feb 2015	Depth (m)	13
I38	05 Feb 2015	Arrive Time	1100
I38	05 Feb 2015	Depart Time	1105
I38	05 Feb 2015	Air Temp (C)	16
I38	05 Feb 2015	Weather	Fog
I38	05 Feb 2015	Visibility (mi)	2
I38	05 Feb 2015	Wind Speed (kts)	2
I38	05 Feb 2015	Wind Dir	NW
I38	05 Feb 2015	Water Color	Green
I38	05 Feb 2015	Wave Ht Low (ft)	2
I38	05 Feb 2015	Wave Period (sec)	9
I38	05 Feb 2015	Sea State	Calm
I38	05 Feb 2015	High Tide (ft)	5.24
I38	05 Feb 2015	High Tide Time	920
I38	05 Feb 2015	Low Tide (ft)	-0.3
I38	05 Feb 2015	Low Tide Time	1606
I38	05 Feb 2015	Comments	Boats

**Table 4.7**

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

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I1	03 Feb 2015	1	16.69	88.47	7.9	33.38	8.2	24.3	0.24
I1	03 Feb 2015	2	16.67	88.83	7.9	33.38	8.2	24.3	0.26
I1	03 Feb 2015	3	16.66	89.02	7.9	33.38	8.2	24.3	0.25
I1	03 Feb 2015	4	16.66	89.13	7.9	33.38	8.2	24.4	0.27
I1	03 Feb 2015	5	16.66	89.30	7.9	33.38	8.2	24.4	0.26
I1	03 Feb 2015	6	16.66	89.30	7.9	33.38	8.2	24.4	0.26
I1	03 Feb 2015	7	16.66	89.31	7.9	33.38	8.2	24.4	0.30
I1	03 Feb 2015	8	16.66	89.32	7.9	33.38	8.2	24.4	0.31
I1	03 Feb 2015	9	16.65	89.34	7.9	33.38	8.2	24.4	0.31
I1	03 Feb 2015	10	16.65	89.33	7.9	33.38	8.2	24.4	0.31
I1	03 Feb 2015	11	16.65	89.36	7.9	33.38	8.2	24.4	0.33
I1	03 Feb 2015	12	16.65	89.37	7.9	33.38	8.2	24.4	0.35
I1	03 Feb 2015	13	16.65	89.38	7.9	33.38	8.2	24.4	0.35
I1	03 Feb 2015	14	16.65	89.38	7.9	33.38	8.2	24.4	0.36
I1	03 Feb 2015	15	16.65	89.42	7.9	33.38	8.2	24.4	0.37
I1	03 Feb 2015	16	16.65	89.43	7.9	33.38	8.2	24.4	0.37
I1	03 Feb 2015	17	16.65	89.43	7.9	33.38	8.2	24.4	0.37
I1	03 Feb 2015	18	16.65	89.43	7.9	33.38	8.2	24.4	0.41
I1	03 Feb 2015	19	16.65	89.40	7.9	33.38	8.2	24.4	0.42
I1	03 Feb 2015	20	16.65	89.40	7.9	33.38	8.2	24.4	0.43
I1	03 Feb 2015	21	16.65	89.34	7.9	33.38	8.2	24.4	0.44
I1	03 Feb 2015	22	16.65	89.37	7.9	33.38	8.2	24.4	0.44
I1	03 Feb 2015	23	16.65	89.37	7.9	33.38	8.2	24.4	0.44
I1	03 Feb 2015	24	16.64	89.35	7.9	33.38	8.2	24.4	0.46
I1	03 Feb 2015	25	16.64	89.34	7.9	33.38	8.2	24.4	0.47
I1	03 Feb 2015	26	16.64	89.36	7.9	33.38	8.2	24.4	0.48
I1	03 Feb 2015	27	16.63	89.41	7.9	33.38	8.2	24.4	0.50
I1	03 Feb 2015	28	16.61	89.44	7.9	33.38	8.2	24.4	0.54
I1	03 Feb 2015	29	16.47	89.37	8.0	33.39	8.2	24.4	0.63
I1	03 Feb 2015	30	16.37	89.01	8.0	33.40	8.2	24.4	0.70
I1	03 Feb 2015	31	16.34	88.93	8.0	33.39	8.2	24.4	0.76
I1	03 Feb 2015	32	16.16	88.92	8.0	33.37	8.2	24.5	0.82
I1	03 Feb 2015	33	16.05	88.95	8.0	33.37	8.2	24.5	0.88
I1	03 Feb 2015	34	15.91	88.95	7.9	33.34	8.2	24.5	1.14
I1	03 Feb 2015	35	15.62	88.78	7.9	33.33	8.2	24.5	1.44
I1	03 Feb 2015	36	15.55	88.60	7.9	33.33	8.2	24.6	1.69
I1	03 Feb 2015	37	15.49	88.37	7.9	33.33	8.2	24.6	1.89
I1	03 Feb 2015	38	15.41	88.28	7.8	33.33	8.2	24.6	2.02
I1	03 Feb 2015	39	15.32	88.31	7.5	33.32	8.1	24.6	1.83
I1	03 Feb 2015	40	15.01	88.47	7.1	33.36	8.1	24.7	1.52
I1	03 Feb 2015	41	14.92	88.11	6.9	33.37	8.1	24.7	1.37
I1	03 Feb 2015	42	14.85	87.78	7.0	33.38	8.1	24.8	1.31
I1	03 Feb 2015	43	14.84	87.71	7.0	33.38	8.1	24.8	1.30
I1	03 Feb 2015	44	14.83	87.72	7.0	33.38	8.1	24.8	1.28
I1	03 Feb 2015	45	14.83	87.70	7.0	33.38	8.1	24.8	1.28
I1	03 Feb 2015	46	14.82	87.72	7.0	33.38	8.1	24.8	1.28
I1	03 Feb 2015	47	14.75	87.77	7.0	33.38	8.1	24.8	1.26
I1	03 Feb 2015	48	14.65	87.76	6.8	33.38	8.1	24.8	1.20
I1	03 Feb 2015	49	14.50	87.66	6.7	33.38	8.1	24.8	1.02
I1	03 Feb 2015	50	14.12	87.61	6.5	33.37	8.1	24.9	0.85
I1	03 Feb 2015	51	13.92	87.68	6.4	33.38	8.1	25.0	0.73

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
l1	03 Feb 2015	52	13.63	87.75	6.4	33.40	8.0	25.0	0.64
l1	03 Feb 2015	53	13.61	87.66	6.4	33.40	8.0	25.0	0.61
l1	03 Feb 2015	54	13.59	87.60	6.4	33.40	8.0	25.0	0.60
l1	03 Feb 2015	55	13.58	87.62	6.4	33.40	8.0	25.0	0.60
l1	03 Feb 2015	56	13.56	87.61	6.4	33.40	8.0	25.0	0.59
l1	03 Feb 2015	57	13.53	87.51	6.3	33.40	8.0	25.0	0.58
l1	03 Feb 2015	58	13.50	87.53	6.3	33.40	8.0	25.1	0.56
l1	03 Feb 2015	59	13.45	87.55	6.3	33.40	8.0	25.1	0.55
l1	03 Feb 2015	60	13.34	87.53	6.2	33.39	8.0	25.1	0.51
l2	03 Feb 2015	1	16.59	89.77	7.9	33.33	8.2	24.3	0.26
l2	03 Feb 2015	2	16.59	89.82	7.9	33.33	8.2	24.3	0.26
l2	03 Feb 2015	3	16.59	89.86	7.9	33.33	8.2	24.3	0.26
l2	03 Feb 2015	4	16.57	89.85	7.9	33.33	8.2	24.3	0.27
l2	03 Feb 2015	5	16.57	89.82	7.9	33.33	8.2	24.3	0.28
l2	03 Feb 2015	6	16.57	89.81	7.9	33.33	8.2	24.3	0.28
l2	03 Feb 2015	7	16.57	89.84	7.8	33.33	8.2	24.3	0.29
l2	03 Feb 2015	8	16.57	89.81	7.8	33.33	8.2	24.3	0.30
l2	03 Feb 2015	9	16.57	89.86	7.8	33.33	8.2	24.3	0.30
l2	03 Feb 2015	10	16.58	89.89	7.9	33.33	8.2	24.3	0.32
l2	03 Feb 2015	11	16.58	89.85	7.8	33.34	8.2	24.3	0.33
l2	03 Feb 2015	12	16.58	89.89	7.8	33.34	8.2	24.3	0.34
l2	03 Feb 2015	13	16.58	89.87	7.8	33.34	8.2	24.3	0.34
l2	03 Feb 2015	14	16.58	89.92	7.9	33.34	8.2	24.3	0.36
l2	03 Feb 2015	15	16.58	89.91	7.9	33.34	8.2	24.3	0.36
l2	03 Feb 2015	16	16.58	89.91	7.9	33.34	8.2	24.3	0.37
l2	03 Feb 2015	17	16.58	89.94	7.8	33.34	8.2	24.3	0.38
l2	03 Feb 2015	18	16.57	89.95	7.8	33.34	8.2	24.3	0.40
l2	03 Feb 2015	19	16.49	89.81	7.9	33.35	8.2	24.4	0.43
l2	03 Feb 2015	20	16.44	89.56	8.0	33.37	8.2	24.4	0.46
l2	03 Feb 2015	21	16.39	89.46	8.0	33.38	8.2	24.4	0.49
l2	03 Feb 2015	22	16.32	89.40	8.0	33.38	8.2	24.4	0.52
l2	03 Feb 2015	23	16.26	89.34	8.0	33.38	8.2	24.4	0.54
l2	03 Feb 2015	24	16.22	89.36	8.0	33.38	8.2	24.5	0.54
l2	03 Feb 2015	25	16.14	89.36	8.0	33.38	8.2	24.5	0.59
l2	03 Feb 2015	26	16.07	89.33	8.0	33.38	8.2	24.5	0.63
l2	03 Feb 2015	27	15.97	89.24	8.0	33.38	8.2	24.5	0.71
l2	03 Feb 2015	28	15.87	88.98	7.9	33.37	8.2	24.5	1.19
l2	03 Feb 2015	29	15.56	87.50	7.5	33.35	8.2	24.6	1.68
l2	03 Feb 2015	30	15.16	87.45	7.2	33.36	8.2	24.7	1.67
l2	03 Feb 2015	31	15.01	87.47	7.2	33.37	8.1	24.7	1.62
l2	03 Feb 2015	32	15.01	87.36	7.2	33.37	8.1	24.7	1.60
l3	03 Feb 2015	1	16.41	87.15	7.8	33.40	8.2	24.4	0.51
l3	03 Feb 2015	2	16.41	87.82	7.8	33.40	8.2	24.4	0.52
l3	03 Feb 2015	3	16.41	88.43	7.8	33.40	8.2	24.4	0.53
l3	03 Feb 2015	4	16.40	88.35	7.8	33.40	8.2	24.4	0.56
l3	03 Feb 2015	5	16.39	88.36	7.8	33.40	8.2	24.4	0.60
l3	03 Feb 2015	6	16.38	88.34	7.8	33.40	8.2	24.4	0.64
l3	03 Feb 2015	7	16.37	88.32	7.8	33.40	8.2	24.4	0.69
l3	03 Feb 2015	8	16.35	88.26	7.8	33.40	8.2	24.4	0.73
l3	03 Feb 2015	9	16.35	88.29	7.8	33.40	8.2	24.4	0.79
l3	03 Feb 2015	10	16.34	88.26	7.8	33.40	8.2	24.4	0.82
l3	03 Feb 2015	11	16.32	88.30	7.8	33.40	8.2	24.4	0.89
l3	03 Feb 2015	12	16.30	88.23	7.8	33.39	8.2	24.4	0.97

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
13	03 Feb 2015	13	16.28	88.20	7.8	33.39	8.2	24.4	1.03
13	03 Feb 2015	14	16.27	88.16	7.8	33.39	8.2	24.4	1.08
13	03 Feb 2015	15	16.23	88.22	7.8	33.39	8.2	24.5	1.17
13	03 Feb 2015	16	16.19	88.36	7.8	33.38	8.2	24.5	1.25
13	03 Feb 2015	17	16.16	88.47	7.8	33.38	8.2	24.5	1.37
13	03 Feb 2015	18	16.04	88.39	7.8	33.38	8.2	24.5	1.51
13	03 Feb 2015	19	16.00	88.10	7.6	33.39	8.2	24.5	1.55
13	03 Feb 2015	20	15.91	87.81	7.4	33.38	8.2	24.5	1.60
13	03 Feb 2015	21	15.71	87.61	7.2	33.39	8.2	24.6	1.62
13	03 Feb 2015	22	15.54	87.41	7.2	33.38	8.1	24.6	1.65
13	03 Feb 2015	23	15.40	87.41	7.2	33.37	8.1	24.6	1.62
13	03 Feb 2015	24	15.37	87.33	7.2	33.38	8.1	24.6	1.62
13	03 Feb 2015	25	15.36	87.14	7.2	33.38	8.1	24.6	1.61
13	03 Feb 2015	26	15.36	87.09	7.2	33.38	8.1	24.6	1.64
13	03 Feb 2015	27	15.36	87.01	7.2	33.37	8.1	24.6	1.62
14	03 Feb 2015	1	16.40	78.51	7.9	33.44	8.2	24.5	1.06
14	03 Feb 2015	2	16.35	78.64	7.8	33.44	8.2	24.5	1.16
14	03 Feb 2015	3	16.29	77.81	7.7	33.44	8.2	24.5	1.39
14	03 Feb 2015	4	16.27	77.52	7.7	33.44	8.2	24.5	1.57
14	03 Feb 2015	5	16.22	77.66	7.6	33.43	8.2	24.5	1.71
14	03 Feb 2015	6	16.19	78.59	7.5	33.44	8.2	24.5	1.70
14	03 Feb 2015	7	16.17	78.98	7.5	33.44	8.1	24.5	1.78
14	03 Feb 2015	8	16.14	79.66	7.4	33.43	8.1	24.5	1.77
14	03 Feb 2015	9	16.08	80.19	7.2	33.43	8.1	24.5	1.73
14	03 Feb 2015	10	15.95	81.04	7.0	33.42	8.1	24.5	1.64
14	03 Feb 2015	11	15.89	81.60	6.9	33.42	8.1	24.6	1.60
14	03 Feb 2015	12	15.87	81.46	6.9	33.42	8.1	24.6	1.57
14	03 Feb 2015	13	15.87	81.36	6.9	33.42	8.1	24.6	1.56
14	03 Feb 2015	14	15.86	81.30	6.9	33.42	8.1	24.6	1.55
14	03 Feb 2015	15	15.86	81.44	6.9	33.42	8.1	24.6	1.65
14	03 Feb 2015	16	15.85	81.43	6.8	33.42	8.1	24.6	1.60
14	03 Feb 2015	17	15.85	79.48	6.8	33.42	8.1	24.6	1.54
14	03 Feb 2015	18	15.85	78.22	6.8	33.42	8.1	24.6	1.59
15	03 Feb 2015	1	16.19	73.81	7.2	33.44	8.1	24.5	0.79
15	03 Feb 2015	2	16.17	74.61	7.2	33.44	8.1	24.5	0.91
15	03 Feb 2015	3	16.06	74.34	7.2	33.44	8.1	24.5	1.20
15	03 Feb 2015	4	16.03	72.36	7.2	33.44	8.1	24.5	1.60
15	03 Feb 2015	5	16.02	71.13	7.2	33.44	8.1	24.5	2.01
15	03 Feb 2015	6	16.02	70.26	7.2	33.44	8.1	24.5	2.23
15	03 Feb 2015	7	16.02	70.72	7.2	33.44	8.1	24.5	2.23
15	03 Feb 2015	8	16.01	71.10	7.2	33.44	8.1	24.5	2.20
15	03 Feb 2015	9	16.01	71.48	7.2	33.44	8.1	24.5	2.13
15	03 Feb 2015	10	16.00	71.71	7.1	33.44	8.1	24.5	2.10
15	03 Feb 2015	11	15.99	71.62	7.1	33.44	8.1	24.5	2.00
15	03 Feb 2015	12	15.99	71.38	7.1	33.44	8.1	24.5	1.96
15	03 Feb 2015	13	15.99	69.33	7.0	33.44	8.1	24.5	1.96
15	03 Feb 2015	14	15.98	64.94	6.9	33.43	8.1	24.5	2.06
16	03 Feb 2015	1	16.45	86.27	7.8	33.41	8.2	24.4	0.58
16	03 Feb 2015	2	16.39	86.91	7.8	33.41	8.2	24.4	0.57
16	03 Feb 2015	3	16.39	86.96	7.8	33.41	8.2	24.4	0.59
16	03 Feb 2015	4	16.38	87.02	7.8	33.41	8.2	24.4	0.63
16	03 Feb 2015	5	16.35	87.17	7.8	33.41	8.2	24.4	0.72



Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
16	03 Feb 2015	6	16.33	87.24	7.8	33.41	8.2	24.4	0.76
16	03 Feb 2015	7	16.32	86.91	7.8	33.41	8.2	24.4	0.81
16	03 Feb 2015	8	16.30	86.96	7.8	33.40	8.2	24.5	0.88
16	03 Feb 2015	9	16.27	87.18	7.7	33.40	8.2	24.5	0.97
16	03 Feb 2015	10	16.20	87.28	7.8	33.39	8.2	24.5	1.08
16	03 Feb 2015	11	16.15	87.39	7.8	33.39	8.2	24.5	1.17
16	03 Feb 2015	12	16.07	87.51	7.8	33.38	8.2	24.5	1.33
16	03 Feb 2015	13	16.00	87.54	7.8	33.37	8.2	24.5	1.50
16	03 Feb 2015	14	15.91	87.44	7.8	33.38	8.2	24.5	1.64
16	03 Feb 2015	15	15.87	87.34	7.7	33.38	8.2	24.5	1.72
16	03 Feb 2015	16	15.83	87.34	7.7	33.37	8.2	24.5	1.78
16	03 Feb 2015	17	15.77	87.29	7.6	33.37	8.2	24.5	1.79
16	03 Feb 2015	18	15.73	87.17	7.5	33.37	8.2	24.6	1.80
16	03 Feb 2015	19	15.69	86.94	7.4	33.38	8.1	24.6	1.78
16	03 Feb 2015	20	15.65	86.69	7.3	33.38	8.1	24.6	1.74
16	03 Feb 2015	21	15.59	86.36	7.2	33.37	8.1	24.6	1.76
16	03 Feb 2015	22	15.51	86.19	7.2	33.37	8.1	24.6	1.71
16	03 Feb 2015	23	15.36	85.82	7.1	33.37	8.1	24.6	1.68
16	03 Feb 2015	24	15.32	84.97	7.1	33.37	8.1	24.6	1.68
16	03 Feb 2015	25	15.31	84.27	7.1	33.37	8.1	24.6	1.69
16	03 Feb 2015	26	15.30	83.91	7.1	33.37	8.1	24.6	1.67
17	03 Feb 2015	1	16.63	87.71	7.9	33.39	8.2	24.4	0.38
17	03 Feb 2015	2	16.59	88.03	8.0	33.39	8.2	24.4	0.39
17	03 Feb 2015	3	16.58	88.38	8.0	33.39	8.2	24.4	0.40
17	03 Feb 2015	4	16.58	88.63	8.0	33.39	8.2	24.4	0.42
17	03 Feb 2015	5	16.58	88.69	7.9	33.39	8.2	24.4	0.42
17	03 Feb 2015	6	16.58	88.73	8.0	33.39	8.2	24.4	0.43
17	03 Feb 2015	7	16.59	88.74	7.9	33.39	8.2	24.4	0.46
17	03 Feb 2015	8	16.59	88.82	7.9	33.39	8.2	24.4	0.48
17	03 Feb 2015	9	16.58	88.92	8.0	33.39	8.2	24.4	0.50
17	03 Feb 2015	10	16.58	88.93	8.0	33.39	8.2	24.4	0.50
17	03 Feb 2015	11	16.58	88.93	7.9	33.39	8.2	24.4	0.51
17	03 Feb 2015	12	16.58	88.93	8.0	33.39	8.2	24.4	0.53
17	03 Feb 2015	13	16.58	88.95	8.0	33.39	8.2	24.4	0.53
17	03 Feb 2015	14	16.58	88.95	7.9	33.39	8.2	24.4	0.55
17	03 Feb 2015	15	16.58	88.96	7.9	33.39	8.2	24.4	0.58
17	03 Feb 2015	16	16.57	88.95	7.9	33.39	8.2	24.4	0.58
17	03 Feb 2015	17	16.57	88.96	8.0	33.39	8.2	24.4	0.60
17	03 Feb 2015	18	16.56	88.96	7.9	33.39	8.2	24.4	0.64
17	03 Feb 2015	19	16.53	88.92	8.0	33.40	8.2	24.4	0.66
17	03 Feb 2015	20	16.52	88.89	8.0	33.40	8.2	24.4	0.69
17	03 Feb 2015	21	16.50	88.89	8.0	33.40	8.2	24.4	0.72
17	03 Feb 2015	22	16.47	88.80	8.0	33.40	8.2	24.4	0.78
17	03 Feb 2015	23	16.42	88.72	8.0	33.40	8.2	24.4	0.85
17	03 Feb 2015	24	16.37	88.39	8.0	33.41	8.2	24.4	0.90
17	03 Feb 2015	25	16.36	88.31	8.0	33.41	8.2	24.4	0.93
17	03 Feb 2015	26	16.34	88.30	8.0	33.40	8.2	24.4	0.98
17	03 Feb 2015	27	16.31	88.21	8.0	33.40	8.2	24.4	1.06
17	03 Feb 2015	28	16.31	88.21	8.0	33.40	8.2	24.5	1.10
17	03 Feb 2015	29	16.27	88.14	8.0	33.40	8.2	24.5	1.23
17	03 Feb 2015	30	16.23	88.03	7.9	33.40	8.2	24.5	1.31
17	03 Feb 2015	31	16.19	88.00	7.9	33.40	8.2	24.5	1.39
17	03 Feb 2015	32	16.09	88.02	7.9	33.39	8.2	24.5	1.47
17	03 Feb 2015	33	16.00	88.10	7.9	33.37	8.2	24.5	1.47

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
17	03 Feb 2015	34	15.83	88.34	7.9	33.36	8.2	24.5	1.47
17	03 Feb 2015	35	15.71	88.46	7.9	33.35	8.2	24.5	1.51
17	03 Feb 2015	36	15.50	88.46	7.9	33.32	8.2	24.6	1.87
17	03 Feb 2015	37	15.22	88.19	7.9	33.31	8.2	24.6	2.19
17	03 Feb 2015	38	15.09	88.07	7.7	33.30	8.2	24.6	2.22
17	03 Feb 2015	39	14.72	88.13	7.6	33.30	8.2	24.7	2.00
17	03 Feb 2015	40	14.61	88.52	7.5	33.31	8.2	24.8	1.82
17	03 Feb 2015	41	14.56	88.68	7.2	33.33	8.1	24.8	1.48
17	03 Feb 2015	42	14.47	88.23	6.8	33.37	8.1	24.8	1.18
17	03 Feb 2015	43	14.45	87.79	6.8	33.37	8.1	24.8	1.08
17	03 Feb 2015	44	14.44	87.66	6.8	33.37	8.1	24.8	1.03
17	03 Feb 2015	45	14.42	87.68	6.8	33.37	8.1	24.8	1.06
17	03 Feb 2015	46	14.39	87.74	6.9	33.37	8.1	24.8	1.06
17	03 Feb 2015	47	14.35	87.76	6.8	33.37	8.1	24.9	1.05
17	03 Feb 2015	48	14.33	87.77	6.8	33.37	8.1	24.9	0.99
17	03 Feb 2015	49	14.19	87.72	6.6	33.37	8.1	24.9	0.87
17	03 Feb 2015	50	14.13	87.46	6.6	33.38	8.1	24.9	0.87
17	03 Feb 2015	51	14.12	87.44	6.6	33.38	8.1	24.9	NA
18	03 Feb 2015	1	16.75	89.01	7.8	33.36	8.2	24.3	0.29
18	03 Feb 2015	2	16.70	89.36	7.9	33.36	8.2	24.3	0.29
18	03 Feb 2015	3	16.67	89.54	7.9	33.36	8.2	24.3	0.30
18	03 Feb 2015	4	16.65	89.48	7.9	33.36	8.2	24.3	0.31
18	03 Feb 2015	5	16.63	89.38	7.9	33.36	8.2	24.3	0.32
18	03 Feb 2015	6	16.61	89.41	7.9	33.36	8.2	24.3	0.32
18	03 Feb 2015	7	16.58	89.47	7.9	33.35	8.2	24.3	0.32
18	03 Feb 2015	8	16.55	89.50	7.9	33.35	8.2	24.4	0.34
18	03 Feb 2015	9	16.50	89.33	8.0	33.37	8.2	24.4	0.37
18	03 Feb 2015	10	16.41	88.98	8.0	33.39	8.2	24.4	0.43
18	03 Feb 2015	11	16.33	88.74	8.0	33.40	8.2	24.4	0.51
18	03 Feb 2015	12	16.26	88.24	8.1	33.40	8.2	24.5	0.56
18	03 Feb 2015	13	16.23	88.11	8.0	33.39	8.2	24.5	0.59
18	03 Feb 2015	14	16.17	88.16	8.0	33.38	8.2	24.5	0.62
18	03 Feb 2015	15	16.12	88.28	8.0	33.37	8.2	24.5	0.61
18	03 Feb 2015	16	16.07	88.42	8.0	33.36	8.2	24.5	0.62
18	03 Feb 2015	17	16.03	88.62	8.0	33.35	8.2	24.5	0.61
18	03 Feb 2015	18	15.96	88.85	8.0	33.35	8.2	24.5	0.59
18	03 Feb 2015	19	15.90	89.00	8.0	33.35	8.2	24.5	0.62
18	03 Feb 2015	20	15.87	89.10	8.0	33.35	8.2	24.5	0.63
18	03 Feb 2015	21	15.84	89.09	8.0	33.35	8.2	24.5	0.67
18	03 Feb 2015	22	15.82	89.08	8.0	33.35	8.2	24.5	0.70
18	03 Feb 2015	23	15.80	89.02	8.0	33.35	8.2	24.5	0.90
18	03 Feb 2015	24	15.79	88.82	7.9	33.36	8.2	24.5	1.22
18	03 Feb 2015	25	15.75	88.31	7.7	33.35	8.2	24.5	1.57
18	03 Feb 2015	26	15.53	87.43	7.4	33.34	8.2	24.6	1.69
18	03 Feb 2015	27	15.13	87.00	7.1	33.32	8.2	24.6	1.66
18	03 Feb 2015	28	14.88	86.56	7.1	33.33	8.1	24.7	1.66
18	03 Feb 2015	29	14.83	86.38	7.1	33.33	8.1	24.7	1.71
18	03 Feb 2015	30	14.79	86.33	7.2	33.33	8.1	24.7	1.77
18	03 Feb 2015	31	14.77	86.33	7.2	33.33	8.1	24.7	1.83
18	03 Feb 2015	32	14.75	86.29	7.1	33.33	8.1	24.7	1.84
18	03 Feb 2015	33	14.74	86.05	7.1	33.34	8.1	24.7	1.83
18	03 Feb 2015	34	14.74	85.81	7.1	33.34	8.1	24.7	1.83
18	03 Feb 2015	35	14.74	85.37	7.1	33.34	8.1	24.7	1.81
18	03 Feb 2015	36	14.74	85.45	7.1	33.34	8.1	24.7	1.82

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
19	03 Feb 2015	1	16.55	90.04	7.8	33.33	8.1	24.3	0.26
19	03 Feb 2015	2	16.51	89.88	7.9	33.33	8.1	24.3	0.27
19	03 Feb 2015	3	16.49	90.06	7.9	33.33	8.1	24.4	0.27
19	03 Feb 2015	4	16.47	90.01	7.9	33.33	8.1	24.4	0.28
19	03 Feb 2015	5	16.45	89.91	7.9	33.33	8.1	24.4	0.29
19	03 Feb 2015	6	16.45	89.92	7.9	33.33	8.1	24.4	0.30
19	03 Feb 2015	7	16.44	89.91	7.9	33.33	8.1	24.4	0.30
19	03 Feb 2015	8	16.43	89.90	7.9	33.32	8.1	24.4	0.32
19	03 Feb 2015	9	16.42	89.85	7.9	33.32	8.1	24.4	0.33
19	03 Feb 2015	10	16.41	89.80	7.8	33.32	8.1	24.4	0.35
19	03 Feb 2015	11	16.39	89.68	7.8	33.32	8.1	24.4	0.36
19	03 Feb 2015	12	16.38	89.62	7.9	33.32	8.1	24.4	0.39
19	03 Feb 2015	13	16.38	89.54	7.9	33.33	8.1	24.4	0.41
19	03 Feb 2015	14	16.37	89.48	7.8	33.33	8.1	24.4	0.44
19	03 Feb 2015	15	16.39	89.43	7.9	33.34	8.1	24.4	0.46
19	03 Feb 2015	16	16.41	89.39	7.9	33.35	8.2	24.4	0.49
19	03 Feb 2015	17	16.42	89.36	7.9	33.35	8.2	24.4	0.52
19	03 Feb 2015	18	16.42	89.33	7.9	33.35	8.2	24.4	0.53
19	03 Feb 2015	19	16.42	89.22	7.9	33.36	8.2	24.4	0.55
19	03 Feb 2015	20	16.42	89.24	7.9	33.36	8.2	24.4	0.58
19	03 Feb 2015	21	16.41	89.21	7.9	33.36	8.2	24.4	0.61
19	03 Feb 2015	22	16.40	89.23	7.8	33.36	8.2	24.4	0.62
19	03 Feb 2015	23	16.30	89.28	7.9	33.34	8.2	24.4	0.61
19	03 Feb 2015	24	16.13	89.43	8.0	33.36	8.2	24.5	0.77
19	03 Feb 2015	25	16.00	89.04	7.8	33.36	8.2	24.5	1.21
19	03 Feb 2015	26	15.61	87.24	7.4	33.35	8.1	24.6	1.51
19	03 Feb 2015	27	15.37	84.89	7.3	33.35	8.1	24.6	1.59
19	03 Feb 2015	28	15.33	82.81	7.3	33.35	8.1	24.6	1.62
19	03 Feb 2015	29	15.28	80.57	7.3	33.35	8.1	24.6	1.67
110	03 Feb 2015	1	16.47	81.21	7.8	33.43	8.2	24.4	0.79
110	03 Feb 2015	2	16.44	80.93	7.8	33.44	8.2	24.4	0.81
110	03 Feb 2015	3	16.41	80.93	7.8	33.43	8.2	24.4	0.93
110	03 Feb 2015	4	16.38	80.45	7.8	33.44	8.2	24.5	1.06
110	03 Feb 2015	5	16.37	79.94	7.8	33.44	8.2	24.5	1.21
110	03 Feb 2015	6	16.35	79.81	7.8	33.43	8.2	24.5	1.31
110	03 Feb 2015	7	16.31	79.97	7.7	33.43	8.2	24.5	1.43
110	03 Feb 2015	8	16.22	80.47	7.6	33.42	8.2	24.5	1.55
110	03 Feb 2015	9	16.14	80.97	7.5	33.41	8.2	24.5	1.52
110	03 Feb 2015	10	15.98	82.37	7.4	33.40	8.2	24.5	1.56
110	03 Feb 2015	11	15.94	82.71	7.3	33.41	8.2	24.5	1.54
110	03 Feb 2015	12	15.90	82.41	7.2	33.40	8.1	24.5	1.47
110	03 Feb 2015	13	15.81	81.19	7.1	33.40	8.1	24.6	1.50
110	03 Feb 2015	14	15.77	80.00	7.0	33.39	8.1	24.6	1.48
110	03 Feb 2015	15	15.75	77.44	7.1	33.39	8.1	24.6	1.49
110	03 Feb 2015	16	15.74	77.31	7.2	33.39	8.1	24.6	1.52
110	03 Feb 2015	17	15.74	77.75	7.2	33.39	8.1	24.6	1.51
110	03 Feb 2015	18	15.72	78.46	7.3	33.39	8.1	24.6	1.56
110	03 Feb 2015	19	15.72	78.97	7.2	33.39	8.1	24.6	1.55
111	03 Feb 2015	1	16.42	75.41	7.8	33.43	8.2	24.4	1.06
111	03 Feb 2015	2	16.36	75.21	7.8	33.42	8.2	24.5	1.24
111	03 Feb 2015	3	16.32	74.91	7.8	33.43	8.2	24.5	1.45
111	03 Feb 2015	4	16.29	74.65	7.7	33.43	8.2	24.5	1.63

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I11	03 Feb 2015	5	16.27	75.02	7.6	33.43	8.2	24.5	1.81
I11	03 Feb 2015	6	16.25	74.96	7.5	33.43	8.2	24.5	1.98
I11	03 Feb 2015	7	16.23	74.72	7.3	33.43	8.2	24.5	1.99
I11	03 Feb 2015	8	16.18	74.27	7.2	33.43	8.1	24.5	1.99
I11	03 Feb 2015	9	16.14	74.53	7.1	33.43	8.1	24.5	1.76
I11	03 Feb 2015	10	16.10	74.30	6.9	33.43	8.1	24.5	1.56
I11	03 Feb 2015	11	16.09	74.24	7.0	33.43	8.1	24.5	1.48
I11	03 Feb 2015	12	16.06	73.18	6.9	33.43	8.1	24.5	1.40
I11	03 Feb 2015	13	16.05	72.00	6.9	33.43	8.1	24.5	1.35
I12	04 Feb 2015	1	16.38	86.85	7.9	33.31	8.2	24.4	0.52
I12	04 Feb 2015	2	16.38	86.84	7.9	33.31	8.2	24.4	0.52
I12	04 Feb 2015	3	16.35	86.92	7.9	33.30	8.2	24.4	0.54
I12	04 Feb 2015	4	16.34	86.76	7.9	33.29	8.2	24.4	0.57
I12	04 Feb 2015	5	16.35	86.75	7.9	33.30	8.2	24.4	0.57
I12	04 Feb 2015	6	16.40	86.97	7.9	33.33	8.2	24.4	0.54
I12	04 Feb 2015	7	16.47	87.04	8.0	33.37	8.2	24.4	0.49
I12	04 Feb 2015	8	16.51	87.60	7.9	33.38	8.2	24.4	0.47
I12	04 Feb 2015	9	16.51	87.71	8.0	33.39	8.2	24.4	0.48
I12	04 Feb 2015	10	16.50	87.84	8.0	33.40	8.2	24.4	0.50
I12	04 Feb 2015	11	16.50	87.92	8.0	33.40	8.2	24.4	0.54
I12	04 Feb 2015	12	16.49	87.90	8.0	33.40	8.2	24.4	0.58
I12	04 Feb 2015	13	16.48	87.87	8.0	33.40	8.2	24.4	0.61
I12	04 Feb 2015	14	16.48	87.84	8.0	33.40	8.2	24.4	0.63
I12	04 Feb 2015	15	16.47	87.82	8.0	33.40	8.2	24.4	0.66
I12	04 Feb 2015	16	16.44	87.73	8.0	33.39	8.2	24.4	0.73
I12	04 Feb 2015	17	16.36	87.44	8.0	33.37	8.2	24.4	0.77
I12	04 Feb 2015	18	16.35	87.32	8.0	33.37	8.2	24.4	0.84
I12	04 Feb 2015	19	16.25	87.31	7.9	33.37	8.2	24.4	1.02
I12	04 Feb 2015	20	16.15	87.00	7.9	33.36	8.2	24.4	1.19
I12	04 Feb 2015	21	16.10	86.87	7.9	33.36	8.2	24.5	1.33
I12	04 Feb 2015	22	16.05	86.86	7.9	33.35	8.2	24.5	1.45
I12	04 Feb 2015	23	15.93	86.61	7.8	33.34	8.2	24.5	1.63
I12	04 Feb 2015	24	15.79	86.44	7.8	33.34	8.2	24.5	1.87
I12	04 Feb 2015	25	15.46	86.19	7.5	33.32	8.2	24.6	1.96
I12	04 Feb 2015	26	14.95	82.66	7.3	33.34	8.2	24.7	1.86
I12	04 Feb 2015	27	14.93	79.97	7.3	33.34	8.2	24.7	1.86
I12	04 Feb 2015	28	14.92	78.60	7.3	33.34	8.1	24.7	1.86
I13	03 Feb 2015	1	16.68	89.38	7.9	33.37	8.2	24.3	0.28
I13	03 Feb 2015	2	16.66	89.43	7.9	33.36	8.2	24.3	0.31
I13	03 Feb 2015	3	16.64	89.40	7.9	33.36	8.2	24.3	0.32
I13	03 Feb 2015	4	16.62	89.42	7.9	33.36	8.2	24.3	0.31
I13	03 Feb 2015	5	16.62	89.41	7.9	33.36	8.2	24.3	0.32
I13	03 Feb 2015	6	16.60	89.38	7.9	33.36	8.2	24.4	0.32
I13	03 Feb 2015	7	16.58	89.33	7.9	33.37	8.2	24.4	0.33
I13	03 Feb 2015	8	16.58	89.28	7.9	33.37	8.2	24.4	0.34
I13	03 Feb 2015	9	16.58	89.19	7.9	33.37	8.2	24.4	0.35
I13	03 Feb 2015	10	16.58	89.15	8.0	33.38	8.2	24.4	0.36
I13	03 Feb 2015	11	16.58	88.90	8.0	33.39	8.2	24.4	0.39
I13	03 Feb 2015	12	16.58	88.72	8.0	33.39	8.2	24.4	0.39
I13	03 Feb 2015	13	16.56	88.59	8.0	33.39	8.2	24.4	0.43
I13	03 Feb 2015	14	16.52	88.50	8.0	33.40	8.2	24.4	0.43
I13	03 Feb 2015	15	16.46	88.43	8.0	33.40	8.2	24.4	0.48
I13	03 Feb 2015	16	16.39	88.36	8.1	33.40	8.2	24.4	0.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I13	03 Feb 2015	17	16.31	88.19	8.0	33.40	8.2	24.4	0.61
I13	03 Feb 2015	18	16.05	88.07	7.9	33.37	8.2	24.5	0.77
I13	03 Feb 2015	19	15.76	87.89	7.9	33.35	8.2	24.5	1.08
I13	03 Feb 2015	20	15.59	87.25	7.9	33.35	8.2	24.6	1.41
I13	03 Feb 2015	21	15.49	86.67	7.9	33.34	8.2	24.6	1.59
I13	03 Feb 2015	22	15.45	86.69	7.9	33.34	8.2	24.6	1.74
I13	03 Feb 2015	23	15.45	86.80	7.9	33.34	8.2	24.6	1.87
I13	03 Feb 2015	24	15.44	86.83	7.9	33.34	8.2	24.6	1.96
I13	03 Feb 2015	25	15.42	86.84	7.9	33.34	8.2	24.6	2.06
I13	03 Feb 2015	26	15.39	86.85	7.8	33.34	8.2	24.6	2.15
I13	03 Feb 2015	27	15.34	86.90	7.8	33.34	8.2	24.6	2.25
I13	03 Feb 2015	28	15.23	86.86	7.7	33.34	8.2	24.6	2.29
I13	03 Feb 2015	29	15.15	86.85	7.6	33.34	8.2	24.7	2.26
I13	03 Feb 2015	30	15.06	86.95	7.4	33.33	8.2	24.7	2.18
I13	03 Feb 2015	31	14.94	86.82	7.3	33.34	8.1	24.7	2.07
I13	03 Feb 2015	32	14.88	86.98	7.2	33.34	8.1	24.7	2.00
I13	03 Feb 2015	33	14.80	86.95	7.1	33.32	8.1	24.7	1.88
I13	03 Feb 2015	34	14.57	87.01	7.1	33.34	8.1	24.8	1.76
I13	03 Feb 2015	35	14.56	86.75	7.1	33.34	8.1	24.8	1.72
I13	03 Feb 2015	36	14.55	86.47	7.1	33.34	8.1	24.8	1.70
I13	03 Feb 2015	37	14.55	86.31	7.1	33.34	8.1	24.8	1.66
I13	03 Feb 2015	38	14.55	86.22	7.1	33.34	8.1	24.8	1.64
I14	04 Feb 2015	1	16.43	86.83	8.0	33.40	8.2	24.4	0.42
I14	04 Feb 2015	2	16.44	87.22	8.0	33.40	8.2	24.4	0.41
I14	04 Feb 2015	3	16.44	87.33	8.0	33.40	8.2	24.4	0.42
I14	04 Feb 2015	4	16.43	87.34	8.0	33.40	8.2	24.4	0.44
I14	04 Feb 2015	5	16.40	87.38	8.0	33.40	8.2	24.4	0.52
I14	04 Feb 2015	6	16.27	87.31	8.0	33.39	8.2	24.4	0.61
I14	04 Feb 2015	7	16.23	87.24	8.0	33.39	8.2	24.5	0.65
I14	04 Feb 2015	8	16.21	87.26	8.0	33.39	8.2	24.5	0.72
I14	04 Feb 2015	9	16.20	87.26	8.0	33.39	8.2	24.5	0.76
I14	04 Feb 2015	10	16.19	87.24	8.0	33.39	8.2	24.5	0.81
I14	04 Feb 2015	11	16.17	87.10	8.0	33.39	8.2	24.5	0.92
I14	04 Feb 2015	12	16.14	86.94	8.0	33.38	8.2	24.5	1.03
I14	04 Feb 2015	13	16.04	86.66	7.9	33.37	8.2	24.5	1.27
I14	04 Feb 2015	14	15.96	86.34	7.9	33.37	8.2	24.5	1.41
I14	04 Feb 2015	15	15.95	86.30	7.9	33.37	8.2	24.5	1.50
I14	04 Feb 2015	16	15.92	86.24	7.9	33.37	8.2	24.5	1.66
I14	04 Feb 2015	17	15.90	86.11	7.9	33.37	8.2	24.5	1.80
I14	04 Feb 2015	18	15.88	86.01	7.9	33.37	8.2	24.5	1.93
I14	04 Feb 2015	19	15.63	85.69	7.7	33.34	8.2	24.6	2.12
I14	04 Feb 2015	20	15.14	84.62	7.4	33.32	8.2	24.6	2.00
I14	04 Feb 2015	21	14.94	81.16	7.3	33.34	8.2	24.7	1.92
I14	04 Feb 2015	22	14.89	79.97	7.3	33.34	8.2	24.7	1.90
I14	04 Feb 2015	23	14.86	78.65	7.3	33.34	8.2	24.7	1.87
I14	04 Feb 2015	24	14.85	77.92	7.3	33.34	8.1	24.7	1.88
I14	04 Feb 2015	25	14.84	77.63	7.3	33.34	8.1	24.7	1.90
I14	04 Feb 2015	26	14.82	77.10	7.3	33.34	8.1	24.7	1.83
I14	04 Feb 2015	27	14.82	76.43	7.3	33.34	8.1	24.7	1.85
I14	04 Feb 2015	28	14.82	76.21	7.2	33.34	8.1	24.7	1.85
I15	04 Feb 2015	1	16.51	87.23	8.0	33.39	8.2	24.4	0.38
I15	04 Feb 2015	2	16.49	87.37	8.0	33.39	8.2	24.4	0.38
I15	04 Feb 2015	3	16.45	87.51	8.0	33.40	8.2	24.4	0.41

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I15	04 Feb 2015	4	16.44	87.42	8.0	33.40	8.2	24.4	0.43
I15	04 Feb 2015	5	16.44	87.40	8.0	33.40	8.2	24.4	0.47
I15	04 Feb 2015	6	16.42	87.33	8.0	33.40	8.2	24.4	0.50
I15	04 Feb 2015	7	16.41	87.26	8.0	33.40	8.2	24.4	0.54
I15	04 Feb 2015	8	16.40	87.19	8.0	33.40	8.2	24.4	0.59
I15	04 Feb 2015	9	16.34	87.20	8.0	33.39	8.2	24.4	0.63
I15	04 Feb 2015	10	16.23	87.16	8.0	33.38	8.2	24.5	0.72
I15	04 Feb 2015	11	16.08	87.03	8.0	33.38	8.2	24.5	0.88
I15	04 Feb 2015	12	16.01	86.96	8.0	33.37	8.2	24.5	1.02
I15	04 Feb 2015	13	15.94	86.83	7.9	33.36	8.2	24.5	1.15
I15	04 Feb 2015	14	15.88	86.72	7.9	33.36	8.2	24.5	1.27
I15	04 Feb 2015	15	15.84	86.62	7.9	33.35	8.2	24.5	1.38
I15	04 Feb 2015	16	15.81	86.53	7.8	33.35	8.2	24.5	1.47
I15	04 Feb 2015	17	15.79	86.49	7.8	33.36	8.2	24.5	1.57
I15	04 Feb 2015	18	15.73	86.39	7.6	33.35	8.2	24.5	1.62
I15	04 Feb 2015	19	15.22	85.26	7.4	33.33	8.2	24.6	1.69
I15	04 Feb 2015	20	15.03	82.82	7.3	33.34	8.2	24.7	1.72
I15	04 Feb 2015	21	15.00	82.03	7.4	33.34	8.2	24.7	1.74
I15	04 Feb 2015	22	14.96	81.97	7.3	33.34	8.2	24.7	1.72
I15	04 Feb 2015	23	14.92	81.66	7.3	33.34	8.2	24.7	1.77
I15	04 Feb 2015	24	14.88	81.40	7.3	33.34	8.1	24.7	1.76
I15	04 Feb 2015	25	14.87	81.31	7.3	33.34	8.1	24.7	1.75
I15	04 Feb 2015	26	14.86	81.13	7.3	33.34	8.1	24.7	1.72
I15	04 Feb 2015	27	14.84	81.17	7.2	33.34	8.1	24.7	1.71
I15	04 Feb 2015	28	14.82	80.54	7.2	33.34	8.1	24.7	1.72
I15	04 Feb 2015	29	14.82	80.39	7.2	33.34	8.1	24.7	1.66
I15	04 Feb 2015	30	14.82	78.68	7.2	33.34	8.1	24.7	1.68
I15	04 Feb 2015	31	14.82	77.88	7.2	33.34	8.1	24.7	1.67
I16	04 Feb 2015	1	16.60	88.08	8.0	33.40	8.2	24.4	0.33
I16	04 Feb 2015	2	16.58	88.11	8.0	33.40	8.2	24.4	0.35
I16	04 Feb 2015	3	16.53	88.09	8.0	33.40	8.2	24.4	0.34
I16	04 Feb 2015	4	16.49	87.96	8.0	33.40	8.2	24.4	0.38
I16	04 Feb 2015	5	16.49	87.85	8.0	33.40	8.2	24.4	0.40
I16	04 Feb 2015	6	16.48	87.81	8.0	33.40	8.2	24.4	0.40
I16	04 Feb 2015	7	16.47	87.79	8.0	33.40	8.2	24.4	0.41
I16	04 Feb 2015	8	16.47	87.78	8.0	33.40	8.2	24.4	0.43
I16	04 Feb 2015	9	16.47	87.77	8.0	33.40	8.2	24.4	0.48
I16	04 Feb 2015	10	16.46	87.73	8.0	33.40	8.2	24.4	0.48
I16	04 Feb 2015	11	16.46	87.70	8.0	33.40	8.2	24.4	0.51
I16	04 Feb 2015	12	16.46	87.68	8.0	33.40	8.2	24.4	0.55
I16	04 Feb 2015	13	16.46	87.64	8.0	33.40	8.2	24.4	0.60
I16	04 Feb 2015	14	16.45	87.61	8.0	33.40	8.2	24.4	0.64
I16	04 Feb 2015	15	16.41	87.53	8.0	33.40	8.2	24.4	0.71
I16	04 Feb 2015	16	16.36	87.51	8.0	33.40	8.2	24.4	0.80
I16	04 Feb 2015	17	16.27	87.49	8.0	33.39	8.2	24.4	0.93
I16	04 Feb 2015	18	16.23	87.41	8.0	33.38	8.2	24.5	1.06
I16	04 Feb 2015	19	16.20	87.29	8.0	33.38	8.2	24.5	1.20
I16	04 Feb 2015	20	16.01	87.01	7.9	33.36	8.2	24.5	1.53
I16	04 Feb 2015	21	15.87	86.52	7.9	33.36	8.2	24.5	1.77
I16	04 Feb 2015	22	15.80	86.27	7.8	33.36	8.2	24.5	1.96
I16	04 Feb 2015	23	15.59	86.04	7.7	33.34	8.2	24.6	2.10
I16	04 Feb 2015	24	15.11	85.25	7.4	33.33	8.2	24.7	1.94
I16	04 Feb 2015	25	14.90	81.60	7.3	33.34	8.2	24.7	1.84
I16	04 Feb 2015	26	14.88	80.34	7.3	33.34	8.2	24.7	1.82

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I16	04 Feb 2015	27	14.86	79.30	7.3	33.34	8.1	24.7	1.81
I16	04 Feb 2015	28	14.85	78.68	7.3	33.34	8.1	24.7	1.78
I17	04 Feb 2015	1	16.60	88.39	7.9	33.41	8.2	24.4	0.36
I17	04 Feb 2015	2	16.60	88.40	8.0	33.41	8.2	24.4	0.37
I17	04 Feb 2015	3	16.60	88.41	8.0	33.41	8.2	24.4	0.36
I17	04 Feb 2015	4	16.60	88.40	8.0	33.41	8.2	24.4	0.36
I17	04 Feb 2015	5	16.57	88.39	8.0	33.41	8.2	24.4	0.36
I17	04 Feb 2015	6	16.53	88.29	8.0	33.41	8.2	24.4	0.37
I17	04 Feb 2015	7	16.53	88.24	8.0	33.41	8.2	24.4	0.40
I17	04 Feb 2015	8	16.52	88.23	8.0	33.41	8.2	24.4	0.40
I17	04 Feb 2015	9	16.52	88.22	8.0	33.41	8.2	24.4	0.41
I17	04 Feb 2015	10	16.51	88.19	8.0	33.41	8.2	24.4	0.45
I17	04 Feb 2015	11	16.51	88.16	8.0	33.41	8.2	24.4	0.48
I17	04 Feb 2015	12	16.51	88.12	8.0	33.41	8.2	24.4	0.48
I17	04 Feb 2015	13	16.49	88.09	8.0	33.40	8.2	24.4	0.56
I17	04 Feb 2015	14	16.46	87.96	8.0	33.40	8.2	24.4	0.61
I17	04 Feb 2015	15	16.42	87.82	7.9	33.39	8.2	24.4	0.71
I17	04 Feb 2015	16	16.31	87.41	7.9	33.37	8.2	24.4	0.83
I17	04 Feb 2015	17	16.28	87.25	7.9	33.36	8.2	24.4	0.93
I17	04 Feb 2015	18	16.18	87.04	7.9	33.35	8.2	24.4	1.09
I17	04 Feb 2015	19	16.06	86.78	7.9	33.35	8.2	24.5	1.29
I17	04 Feb 2015	20	16.02	86.56	7.9	33.35	8.2	24.5	1.43
I17	04 Feb 2015	21	15.96	86.45	7.9	33.36	8.2	24.5	1.61
I17	04 Feb 2015	22	15.88	86.21	7.8	33.36	8.2	24.5	1.82
I17	04 Feb 2015	23	15.61	85.86	7.6	33.33	8.2	24.5	1.91
I17	04 Feb 2015	24	15.11	83.08	7.4	33.34	8.2	24.7	1.86
I17	04 Feb 2015	25	15.06	81.92	7.4	33.34	8.2	24.7	1.81
I18	04 Feb 2015	1	16.56	87.14	7.9	33.40	8.2	24.4	0.57
I18	04 Feb 2015	2	16.55	87.16	7.8	33.40	8.2	24.4	0.62
I18	04 Feb 2015	3	16.51	87.12	7.9	33.40	8.2	24.4	0.66
I18	04 Feb 2015	4	16.47	87.05	7.9	33.40	8.2	24.4	0.67
I18	04 Feb 2015	5	16.45	87.19	7.9	33.40	8.2	24.4	0.69
I18	04 Feb 2015	6	16.43	87.17	7.9	33.40	8.2	24.4	0.75
I18	04 Feb 2015	7	16.42	87.23	7.9	33.40	8.2	24.4	0.78
I18	04 Feb 2015	8	16.39	87.24	7.9	33.40	8.2	24.4	0.84
I18	04 Feb 2015	9	16.35	87.23	7.9	33.39	8.2	24.4	0.88
I18	04 Feb 2015	10	16.31	87.24	7.9	33.39	8.2	24.4	0.97
I18	04 Feb 2015	11	16.27	87.13	7.9	33.39	8.2	24.4	1.02
I18	04 Feb 2015	12	16.22	87.15	7.9	33.38	8.2	24.5	1.06
I18	04 Feb 2015	13	16.09	87.16	7.9	33.38	8.2	24.5	1.21
I18	04 Feb 2015	14	15.95	86.99	7.9	33.36	8.2	24.5	1.41
I18	04 Feb 2015	15	15.77	86.62	7.8	33.36	8.2	24.5	1.69
I18	04 Feb 2015	16	15.52	86.10	7.6	33.34	8.2	24.6	1.69
I18	04 Feb 2015	17	15.08	85.75	7.3	33.33	8.2	24.7	1.60
I18	04 Feb 2015	18	14.94	82.30	7.3	33.33	8.2	24.7	1.56
I18	04 Feb 2015	19	14.89	79.07	7.3	33.34	8.2	24.7	1.60
I20	03 Feb 2015	1	16.53	88.16	7.9	33.41	8.2	24.4	0.47
I20	03 Feb 2015	2	16.53	88.35	7.9	33.41	8.2	24.4	0.50
I20	03 Feb 2015	3	16.53	88.37	7.9	33.41	8.2	24.4	0.52
I20	03 Feb 2015	4	16.53	88.36	7.9	33.41	8.2	24.4	0.56
I20	03 Feb 2015	5	16.53	88.35	8.0	33.41	8.2	24.4	0.58
I20	03 Feb 2015	6	16.53	88.35	8.0	33.41	8.2	24.4	0.62

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I20	03 Feb 2015	7	16.53	88.38	8.0	33.41	8.2	24.4	0.63
I20	03 Feb 2015	8	16.53	88.41	7.9	33.41	8.2	24.4	0.64
I20	03 Feb 2015	9	16.53	88.42	8.0	33.41	8.2	24.4	0.66
I20	03 Feb 2015	10	16.53	88.43	8.0	33.41	8.2	24.4	0.68
I20	03 Feb 2015	11	16.53	88.46	8.0	33.41	8.2	24.4	0.69
I20	03 Feb 2015	12	16.52	88.46	8.0	33.41	8.2	24.4	0.71
I20	03 Feb 2015	13	16.52	88.48	8.0	33.41	8.2	24.4	0.73
I20	03 Feb 2015	14	16.51	88.49	7.9	33.41	8.2	24.4	0.75
I20	03 Feb 2015	15	16.46	88.50	8.0	33.40	8.2	24.4	0.85
I20	03 Feb 2015	16	16.40	88.42	8.0	33.40	8.2	24.4	0.91
I20	03 Feb 2015	17	16.37	88.34	8.0	33.40	8.2	24.4	0.99
I20	03 Feb 2015	18	16.35	88.35	8.0	33.40	8.2	24.4	1.09
I20	03 Feb 2015	19	16.31	88.15	8.0	33.40	8.2	24.4	1.21
I20	03 Feb 2015	20	16.29	88.00	8.0	33.40	8.2	24.4	1.36
I20	03 Feb 2015	21	16.23	87.88	8.0	33.39	8.2	24.5	1.60
I20	03 Feb 2015	22	16.20	87.49	7.9	33.38	8.2	24.5	1.84
I20	03 Feb 2015	23	16.12	86.98	7.9	33.38	8.2	24.5	2.09
I20	03 Feb 2015	24	16.08	86.71	7.8	33.38	8.2	24.5	2.18
I20	03 Feb 2015	25	16.00	86.81	7.8	33.38	8.2	24.5	2.22
I20	03 Feb 2015	26	15.89	86.91	7.7	33.37	8.2	24.5	2.29
I20	03 Feb 2015	27	15.80	86.85	7.7	33.38	8.2	24.5	2.26
I20	03 Feb 2015	28	15.73	86.87	7.6	33.37	8.2	24.6	2.16
I20	03 Feb 2015	29	15.69	86.94	7.5	33.37	8.2	24.6	2.04
I20	03 Feb 2015	30	15.57	87.08	7.5	33.36	8.2	24.6	1.90
I20	03 Feb 2015	31	15.50	87.19	7.5	33.36	8.2	24.6	1.85
I20	03 Feb 2015	32	15.39	87.59	7.5	33.35	8.2	24.6	1.78
I20	03 Feb 2015	33	15.32	87.70	7.6	33.35	8.1	24.6	1.75
I20	03 Feb 2015	34	15.28	87.75	7.6	33.34	8.1	24.6	1.74
I20	03 Feb 2015	35	15.24	87.95	7.6	33.34	8.1	24.6	1.74
I20	03 Feb 2015	36	15.14	88.12	7.7	33.33	8.1	24.7	1.76
I20	03 Feb 2015	37	15.08	88.50	7.7	33.32	8.1	24.7	1.78
I20	03 Feb 2015	38	14.99	88.68	7.7	33.31	8.1	24.7	1.79
I20	03 Feb 2015	39	14.88	88.96	7.8	33.30	8.1	24.7	1.75
I20	03 Feb 2015	40	14.80	89.21	7.7	33.30	8.1	24.7	1.73
I20	03 Feb 2015	41	14.75	89.35	7.7	33.30	8.1	24.7	1.69
I20	03 Feb 2015	42	14.61	89.46	7.7	33.28	8.1	24.7	1.65
I20	03 Feb 2015	43	14.47	89.63	7.6	33.27	8.1	24.8	1.58
I20	03 Feb 2015	44	14.31	89.76	7.5	33.27	8.1	24.8	1.45
I20	03 Feb 2015	45	14.25	89.82	7.4	33.29	8.1	24.8	1.33
I20	03 Feb 2015	46	14.17	89.69	7.3	33.29	8.1	24.8	1.21
I20	03 Feb 2015	47	13.97	89.78	7.2	33.28	8.1	24.9	1.06
I20	03 Feb 2015	48	13.82	89.92	7.1	33.30	8.1	24.9	0.95
I20	03 Feb 2015	49	13.73	89.77	6.9	33.31	8.1	24.9	0.85
I20	03 Feb 2015	50	13.66	89.59	6.8	33.33	8.1	25.0	0.78
I20	03 Feb 2015	51	13.67	89.33	6.6	33.35	8.1	25.0	0.73
I20	03 Feb 2015	52	13.65	88.90	6.5	33.36	8.1	25.0	0.65
I20	03 Feb 2015	53	13.47	88.54	6.4	33.36	8.1	25.0	0.60
I20	03 Feb 2015	54	13.32	88.28	6.4	33.36	8.1	25.1	0.56
I20	03 Feb 2015	55	13.22	87.80	6.3	33.37	8.0	25.1	0.53
I21	03 Feb 2015	1	16.68	87.61	8.0	33.41	8.2	24.4	0.36
I21	03 Feb 2015	2	16.67	87.79	8.0	33.41	8.2	24.4	0.36
I21	03 Feb 2015	3	16.65	87.86	7.9	33.41	8.2	24.4	0.37
I21	03 Feb 2015	4	16.59	87.90	8.0	33.40	8.2	24.4	0.38
I21	03 Feb 2015	5	16.56	87.89	8.0	33.41	8.2	24.4	0.40



Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I21	03 Feb 2015	6	16.55	87.86	8.0	33.41	8.2	24.4	0.41
I21	03 Feb 2015	7	16.55	87.77	8.0	33.41	8.2	24.4	0.43
I21	03 Feb 2015	8	16.55	87.69	8.0	33.41	8.2	24.4	0.45
I21	03 Feb 2015	9	16.54	87.64	8.0	33.41	8.2	24.4	0.46
I21	03 Feb 2015	10	16.54	87.60	8.0	33.41	8.2	24.4	0.50
I21	03 Feb 2015	11	16.53	87.58	8.0	33.41	8.2	24.4	0.54
I21	03 Feb 2015	12	16.53	87.55	8.0	33.41	8.2	24.4	0.57
I21	03 Feb 2015	13	16.52	87.57	8.0	33.41	8.2	24.4	0.62
I21	03 Feb 2015	14	16.50	87.60	8.0	33.41	8.2	24.4	0.65
I21	03 Feb 2015	15	16.39	87.53	8.0	33.40	8.2	24.4	0.78
I21	03 Feb 2015	16	16.29	87.15	8.0	33.40	8.2	24.4	0.92
I21	03 Feb 2015	17	16.27	86.91	8.0	33.40	8.2	24.5	1.04
I21	03 Feb 2015	18	16.24	86.79	8.0	33.40	8.2	24.5	1.19
I21	03 Feb 2015	19	16.16	86.52	8.0	33.39	8.2	24.5	1.51
I21	03 Feb 2015	20	16.07	85.89	7.9	33.39	8.2	24.5	1.88
I21	03 Feb 2015	21	15.94	85.03	7.9	33.38	8.2	24.5	2.29
I21	03 Feb 2015	22	15.78	84.39	7.8	33.36	8.2	24.5	2.39
I21	03 Feb 2015	23	15.41	85.11	7.8	33.34	8.2	24.6	2.33
I21	03 Feb 2015	24	15.28	85.84	7.8	33.33	8.2	24.6	2.31
I21	03 Feb 2015	25	15.20	86.32	7.7	33.33	8.2	24.6	2.34
I21	03 Feb 2015	26	15.13	86.61	7.7	33.33	8.2	24.7	2.33
I21	03 Feb 2015	27	15.00	87.10	7.7	33.32	8.2	24.7	2.29
I21	03 Feb 2015	28	14.95	87.53	7.7	33.32	8.2	24.7	2.29
I21	03 Feb 2015	29	14.93	87.69	7.6	33.32	8.2	24.7	2.27
I21	03 Feb 2015	30	14.89	87.84	7.6	33.32	8.2	24.7	2.23
I21	03 Feb 2015	31	14.84	88.01	7.5	33.32	8.1	24.7	2.15
I21	03 Feb 2015	32	14.68	88.24	7.4	33.30	8.1	24.7	1.95
I21	03 Feb 2015	33	14.41	88.31	7.2	33.32	8.1	24.8	1.69
I21	03 Feb 2015	34	14.33	87.84	7.0	33.33	8.1	24.8	1.54
I21	03 Feb 2015	35	14.31	87.33	7.0	33.34	8.1	24.8	1.48
I21	03 Feb 2015	36	14.31	86.85	7.0	33.34	8.1	24.8	1.45
I21	03 Feb 2015	37	14.30	86.80	7.0	33.34	8.1	24.8	1.44
I21	03 Feb 2015	38	14.30	86.67	7.0	33.34	8.1	24.8	1.42
I21	03 Feb 2015	39	14.30	86.51	7.0	33.34	8.1	24.8	1.43
I21	03 Feb 2015	40	14.30	85.96	7.0	33.34	8.1	24.8	1.39
I22	04 Feb 2015	1	16.51	86.62	8.0	33.40	8.2	24.4	0.39
I22	04 Feb 2015	2	16.51	87.01	8.0	33.40	8.2	24.4	0.39
I22	04 Feb 2015	3	16.49	87.11	8.0	33.40	8.2	24.4	0.42
I22	04 Feb 2015	4	16.46	87.18	8.0	33.40	8.2	24.4	0.44
I22	04 Feb 2015	5	16.42	87.25	8.0	33.40	8.2	24.4	0.47
I22	04 Feb 2015	6	16.40	87.20	8.0	33.40	8.2	24.4	0.50
I22	04 Feb 2015	7	16.37	87.25	8.0	33.40	8.2	24.4	0.56
I22	04 Feb 2015	8	16.35	87.22	8.0	33.40	8.2	24.4	0.65
I22	04 Feb 2015	9	16.19	87.19	8.0	33.38	8.2	24.5	0.91
I22	04 Feb 2015	10	16.08	86.86	8.0	33.38	8.2	24.5	1.15
I22	04 Feb 2015	11	16.02	86.45	8.0	33.38	8.2	24.5	1.31
I22	04 Feb 2015	12	16.01	86.22	8.0	33.38	8.2	24.5	1.41
I22	04 Feb 2015	13	15.99	86.13	8.0	33.38	8.2	24.5	1.50
I22	04 Feb 2015	14	15.99	86.11	8.0	33.38	8.2	24.5	1.59
I22	04 Feb 2015	15	15.98	86.10	7.9	33.38	8.2	24.5	1.63
I22	04 Feb 2015	16	15.90	85.93	7.9	33.38	8.2	24.5	1.76
I22	04 Feb 2015	17	15.87	85.78	7.9	33.38	8.2	24.5	1.83
I22	04 Feb 2015	18	15.78	85.68	7.8	33.36	8.2	24.5	1.97
I22	04 Feb 2015	19	15.48	85.20	7.6	33.32	8.2	24.6	1.97

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I22	04 Feb 2015	20	15.08	82.39	7.5	33.34	8.2	24.7	1.92
I22	04 Feb 2015	21	15.03	80.94	7.5	33.34	8.2	24.7	1.88
I22	04 Feb 2015	22	14.96	80.23	7.5	33.33	8.2	24.7	1.88
I22	04 Feb 2015	23	14.94	79.67	7.5	33.34	8.2	24.7	1.86
I22	04 Feb 2015	24	14.93	79.30	7.4	33.34	8.2	24.7	1.88
I22	04 Feb 2015	25	14.92	79.02	7.4	33.34	8.2	24.7	1.86
I22	04 Feb 2015	26	14.90	78.68	7.4	33.34	8.2	24.7	1.85
I22	04 Feb 2015	27	14.87	77.63	7.4	33.34	8.1	24.7	1.80
I22	04 Feb 2015	28	14.85	75.73	7.3	33.34	8.1	24.7	1.78
I23	04 Feb 2015	1	16.68	87.17	7.9	33.41	8.2	24.4	0.52
I23	04 Feb 2015	2	16.67	87.27	7.9	33.40	8.2	24.4	0.53
I23	04 Feb 2015	3	16.58	87.23	7.9	33.40	8.2	24.4	0.56
I23	04 Feb 2015	4	16.53	87.09	7.9	33.41	8.2	24.4	0.60
I23	04 Feb 2015	5	16.51	87.06	7.9	33.40	8.2	24.4	0.64
I23	04 Feb 2015	6	16.50	87.13	7.9	33.40	8.2	24.4	0.67
I23	04 Feb 2015	7	16.48	87.04	7.9	33.40	8.2	24.4	0.70
I23	04 Feb 2015	8	16.46	87.05	7.9	33.40	8.2	24.4	0.74
I23	04 Feb 2015	9	16.45	86.81	7.9	33.40	8.2	24.4	0.83
I23	04 Feb 2015	10	16.44	87.19	7.9	33.40	8.2	24.4	0.80
I23	04 Feb 2015	11	16.43	87.24	7.9	33.40	8.2	24.4	0.82
I23	04 Feb 2015	12	16.42	87.39	7.9	33.40	8.2	24.4	0.90
I23	04 Feb 2015	13	16.41	87.45	7.9	33.40	8.2	24.4	0.92
I23	04 Feb 2015	14	16.41	87.46	7.9	33.40	8.2	24.4	0.95
I23	04 Feb 2015	15	16.39	87.41	7.9	33.39	8.2	24.4	1.02
I23	04 Feb 2015	16	16.30	87.37	7.9	33.39	8.2	24.4	1.17
I23	04 Feb 2015	17	16.18	86.36	7.7	33.38	8.2	24.5	1.36
I23	04 Feb 2015	18	15.90	83.34	7.3	33.36	8.2	24.5	1.43
I23	04 Feb 2015	19	15.54	76.97	7.2	33.35	8.2	24.6	1.43
I23	04 Feb 2015	20	15.38	68.37	7.2	33.34	8.2	24.6	1.55
I23	04 Feb 2015	21	15.21	62.64	7.3	33.31	8.2	24.6	1.63
I27	04 Feb 2015	1	16.42	88.10	8.0	33.41	8.2	24.4	0.61
I27	04 Feb 2015	2	16.42	88.13	8.0	33.41	8.2	24.4	0.62
I27	04 Feb 2015	3	16.42	88.16	7.9	33.41	8.2	24.4	0.64
I27	04 Feb 2015	4	16.42	88.17	8.0	33.41	8.2	24.4	0.65
I27	04 Feb 2015	5	16.42	88.19	8.0	33.41	8.2	24.4	0.66
I27	04 Feb 2015	6	16.42	88.19	8.0	33.41	8.2	24.4	0.69
I27	04 Feb 2015	7	16.41	87.99	8.0	33.41	8.2	24.4	0.74
I27	04 Feb 2015	8	16.39	88.03	8.0	33.41	8.2	24.4	0.77
I27	04 Feb 2015	9	16.39	87.92	8.0	33.41	8.2	24.4	0.79
I27	04 Feb 2015	10	16.38	87.90	8.0	33.41	8.2	24.4	0.81
I27	04 Feb 2015	11	16.38	87.82	8.0	33.41	8.2	24.4	0.82
I27	04 Feb 2015	12	16.38	87.81	8.0	33.41	8.2	24.4	0.85
I27	04 Feb 2015	13	16.37	87.76	8.0	33.41	8.2	24.4	0.86
I27	04 Feb 2015	14	16.37	87.74	8.0	33.40	8.2	24.4	0.87
I27	04 Feb 2015	15	16.37	87.73	8.0	33.40	8.2	24.4	0.88
I27	04 Feb 2015	16	16.36	87.70	8.0	33.40	8.2	24.4	0.90
I27	04 Feb 2015	17	16.35	87.66	8.0	33.40	8.2	24.4	0.93
I27	04 Feb 2015	18	16.30	87.52	7.9	33.40	8.2	24.4	1.12
I27	04 Feb 2015	19	16.18	87.22	7.9	33.39	8.2	24.5	1.39
I27	04 Feb 2015	20	16.12	86.80	7.9	33.39	8.2	24.5	1.59
I27	04 Feb 2015	21	16.01	86.61	7.9	33.38	8.2	24.5	1.83
I27	04 Feb 2015	22	15.88	86.38	7.8	33.37	8.2	24.5	1.99
I27	04 Feb 2015	23	15.69	86.31	7.8	33.36	8.2	24.6	2.11

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I27	04 Feb 2015	24	15.54	86.43	7.8	33.35	8.2	24.6	2.11
I27	04 Feb 2015	25	15.33	86.58	7.7	33.34	8.2	24.6	2.08
I27	04 Feb 2015	26	15.15	86.75	7.6	33.33	8.2	24.7	2.00
I27	04 Feb 2015	27	14.97	86.87	7.4	33.32	8.1	24.7	1.85
I27	04 Feb 2015	28	14.54	84.80	7.1	33.33	8.1	24.8	1.59
I28	05 Feb 2015	1	16.77	89.38	7.9	33.38	8.2	24.3	0.50
I28	05 Feb 2015	2	16.77	89.40	7.9	33.38	8.2	24.3	0.51
I28	05 Feb 2015	3	16.77	89.40	7.9	33.38	8.2	24.3	0.52
I28	05 Feb 2015	4	16.77	89.54	7.9	33.38	8.2	24.3	0.53
I28	05 Feb 2015	5	16.77	89.53	7.8	33.38	8.2	24.3	0.55
I28	05 Feb 2015	6	16.77	89.56	7.9	33.38	8.2	24.3	0.55
I28	05 Feb 2015	7	16.77	89.56	7.9	33.38	8.2	24.3	0.56
I28	05 Feb 2015	8	16.77	89.57	7.8	33.38	8.2	24.3	0.55
I28	05 Feb 2015	9	16.77	89.58	7.9	33.38	8.2	24.3	0.57
I28	05 Feb 2015	10	16.77	89.59	7.8	33.38	8.2	24.3	0.58
I28	05 Feb 2015	11	16.71	89.63	7.9	33.37	8.2	24.3	0.63
I28	05 Feb 2015	12	16.64	89.79	7.9	33.37	8.2	24.3	0.78
I28	05 Feb 2015	13	16.56	89.61	8.0	33.37	8.2	24.4	1.10
I28	05 Feb 2015	14	16.50	88.56	8.0	33.37	8.2	24.4	1.44
I28	05 Feb 2015	15	16.45	87.79	8.1	33.37	8.2	24.4	1.77
I28	05 Feb 2015	16	16.38	87.08	8.1	33.37	8.2	24.4	2.05
I28	05 Feb 2015	17	16.33	86.61	8.1	33.36	8.2	24.4	2.21
I28	05 Feb 2015	18	16.29	86.47	8.1	33.36	8.2	24.4	2.38
I28	05 Feb 2015	19	16.25	86.35	8.1	33.36	8.2	24.4	2.46
I28	05 Feb 2015	20	16.23	86.30	8.1	33.35	8.2	24.4	2.38
I28	05 Feb 2015	21	16.20	86.51	8.0	33.35	8.2	24.4	2.12
I28	05 Feb 2015	22	16.13	86.96	8.0	33.35	8.2	24.5	1.82
I28	05 Feb 2015	23	16.06	87.38	7.9	33.35	8.2	24.5	1.66
I28	05 Feb 2015	24	15.95	87.66	7.9	33.35	8.2	24.5	1.59
I28	05 Feb 2015	25	15.92	87.77	7.9	33.34	8.2	24.5	1.60
I28	05 Feb 2015	26	15.86	87.80	7.9	33.33	8.2	24.5	1.70
I28	05 Feb 2015	27	15.61	87.92	8.0	33.32	8.2	24.5	1.94
I28	05 Feb 2015	28	15.54	87.77	7.9	33.31	8.2	24.6	2.24
I28	05 Feb 2015	29	15.44	87.30	7.9	33.30	8.2	24.6	2.51
I28	05 Feb 2015	30	15.33	87.06	7.9	33.28	8.2	24.6	2.64
I28	05 Feb 2015	31	15.19	87.01	7.9	33.26	8.2	24.6	2.83
I28	05 Feb 2015	32	14.95	86.93	7.9	33.24	8.2	24.6	2.85
I28	05 Feb 2015	33	14.82	87.04	7.7	33.26	8.2	24.7	2.60
I28	05 Feb 2015	34	14.80	87.54	7.5	33.29	8.2	24.7	2.31
I28	05 Feb 2015	35	14.72	88.03	7.4	33.29	8.2	24.7	2.11
I28	05 Feb 2015	36	14.60	88.26	7.3	33.30	8.2	24.7	1.96
I28	05 Feb 2015	37	14.51	88.46	7.3	33.29	8.2	24.8	1.80
I28	05 Feb 2015	38	14.42	88.74	7.3	33.30	8.2	24.8	1.65
I28	05 Feb 2015	39	14.38	88.73	7.2	33.30	8.1	24.8	1.54
I28	05 Feb 2015	40	14.30	88.84	7.2	33.30	8.1	24.8	1.38
I28	05 Feb 2015	41	14.11	88.84	7.1	33.30	8.1	24.8	1.26
I28	05 Feb 2015	42	13.94	88.75	7.1	33.29	8.1	24.9	1.17
I28	05 Feb 2015	43	13.82	88.79	7.1	33.29	8.1	24.9	1.12
I28	05 Feb 2015	44	13.69	89.08	7.1	33.28	8.1	24.9	1.06
I28	05 Feb 2015	45	13.55	89.51	7.0	33.28	8.1	25.0	0.98
I28	05 Feb 2015	46	13.41	89.30	6.9	33.29	8.1	25.0	0.90
I28	05 Feb 2015	47	13.32	88.97	6.8	33.30	8.1	25.0	0.83
I28	05 Feb 2015	48	13.23	88.83	6.8	33.29	8.1	25.0	0.79
I28	05 Feb 2015	49	13.12	88.93	6.8	33.29	8.1	25.0	0.75

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I28	05 Feb 2015	50	13.06	89.02	6.7	33.30	8.1	25.1	0.71
I28	05 Feb 2015	51	12.95	88.94	6.6	33.29	8.1	25.1	0.66
I28	05 Feb 2015	52	12.68	88.87	6.4	33.28	8.1	25.1	0.59
I28	05 Feb 2015	53	12.38	88.67	6.2	33.32	8.1	25.2	0.54
I28	05 Feb 2015	54	12.30	88.28	6.1	33.33	8.1	25.2	0.50
I28	05 Feb 2015	55	12.23	88.09	6.1	33.34	8.0	25.3	0.47
I29	05 Feb 2015	1	16.25	87.00	8.0	33.37	8.2	24.4	0.95
I29	05 Feb 2015	2	16.16	86.85	8.0	33.37	8.2	24.5	1.00
I29	05 Feb 2015	3	16.18	86.52	7.9	33.35	8.2	24.4	1.17
I29	05 Feb 2015	4	15.97	86.30	7.8	33.36	8.2	24.5	1.48
I29	05 Feb 2015	5	15.77	85.57	7.7	33.35	8.2	24.5	1.68
I29	05 Feb 2015	6	15.62	84.93	7.7	33.35	8.2	24.6	1.83
I29	05 Feb 2015	7	15.52	84.68	7.6	33.35	8.2	24.6	1.96
I29	05 Feb 2015	8	15.46	84.48	7.6	33.35	8.2	24.6	2.11
I29	05 Feb 2015	9	15.41	84.51	7.6	33.35	8.2	24.6	2.23
I29	05 Feb 2015	10	15.35	84.52	7.6	33.35	8.2	24.6	2.27
I29	05 Feb 2015	11	15.34	84.55	7.6	33.35	8.2	24.6	2.33
I29	05 Feb 2015	12	15.33	84.63	7.5	33.35	8.2	24.6	2.35
I29	05 Feb 2015	13	15.29	84.70	7.5	33.35	8.2	24.6	2.35
I29	05 Feb 2015	14	15.23	84.91	7.4	33.35	8.2	24.7	2.19
I29	05 Feb 2015	15	15.20	85.07	7.4	33.35	8.2	24.7	2.12
I29	05 Feb 2015	16	15.17	85.18	7.4	33.35	8.2	24.7	2.09
I29	05 Feb 2015	17	15.14	85.32	7.4	33.35	8.2	24.7	2.03
I29	05 Feb 2015	18	15.10	85.48	7.4	33.35	8.2	24.7	1.98
I29	05 Feb 2015	19	15.06	85.58	7.3	33.35	8.2	24.7	1.92
I29	05 Feb 2015	20	15.02	85.76	7.3	33.35	8.2	24.7	1.86
I29	05 Feb 2015	21	14.98	85.91	7.3	33.35	8.2	24.7	1.81
I29	05 Feb 2015	22	14.95	85.99	7.3	33.35	8.2	24.7	1.74
I29	05 Feb 2015	23	14.87	86.08	7.2	33.35	8.2	24.7	1.66
I29	05 Feb 2015	24	14.80	86.29	7.2	33.35	8.2	24.7	1.59
I29	05 Feb 2015	25	14.66	86.35	7.1	33.34	8.1	24.8	1.51
I29	05 Feb 2015	26	14.53	86.24	7.0	33.34	8.1	24.8	1.40
I29	05 Feb 2015	27	14.41	86.12	7.0	33.34	8.1	24.8	1.32
I29	05 Feb 2015	28	14.31	85.97	6.9	33.34	8.1	24.8	1.24
I29	05 Feb 2015	29	14.21	85.89	6.9	33.34	8.1	24.9	1.19
I29	05 Feb 2015	30	14.14	85.95	6.9	33.33	8.1	24.9	1.13
I29	05 Feb 2015	31	14.05	86.06	6.8	33.34	8.1	24.9	1.08
I29	05 Feb 2015	32	13.95	86.19	6.8	33.32	8.1	24.9	1.00
I29	05 Feb 2015	33	13.76	86.13	6.7	33.33	8.1	24.9	0.91
I29	05 Feb 2015	34	13.71	85.12	6.7	33.33	8.1	25.0	0.87
I29	05 Feb 2015	35	13.70	84.74	6.7	33.33	8.1	25.0	0.86
I29	05 Feb 2015	36	13.69	84.11	6.7	33.34	8.1	25.0	0.89
I29	05 Feb 2015	37	13.69	83.73	6.6	33.34	8.1	25.0	0.86
I29	05 Feb 2015	38	13.69	83.59	6.7	33.34	8.1	25.0	0.86
I30	05 Feb 2015	1	16.29	87.18	8.0	33.40	8.2	24.4	0.62
I30	05 Feb 2015	2	16.28	87.17	8.0	33.40	8.2	24.4	0.64
I30	05 Feb 2015	3	16.28	87.16	8.0	33.40	8.2	24.5	0.68
I30	05 Feb 2015	4	16.27	87.14	8.0	33.40	8.2	24.5	0.71
I30	05 Feb 2015	5	16.27	87.12	8.0	33.40	8.2	24.5	0.73
I30	05 Feb 2015	6	16.27	87.06	8.0	33.40	8.2	24.5	0.79
I30	05 Feb 2015	7	16.27	87.02	8.0	33.40	8.2	24.5	0.81
I30	05 Feb 2015	8	16.27	87.04	8.0	33.40	8.2	24.5	0.87
I30	05 Feb 2015	9	16.26	87.03	8.0	33.40	8.2	24.5	0.90

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I30	05 Feb 2015	10	16.26	87.01	8.0	33.40	8.2	24.5	0.93
I30	05 Feb 2015	11	16.25	87.01	8.0	33.40	8.2	24.5	0.98
I30	05 Feb 2015	12	16.25	86.98	8.0	33.40	8.2	24.5	1.02
I30	05 Feb 2015	13	16.24	86.98	7.9	33.39	8.2	24.5	1.09
I30	05 Feb 2015	14	16.21	86.89	7.9	33.39	8.2	24.5	1.24
I30	05 Feb 2015	15	16.16	86.62	7.9	33.39	8.2	24.5	1.42
I30	05 Feb 2015	16	16.12	86.23	7.9	33.39	8.2	24.5	1.63
I30	05 Feb 2015	17	16.04	85.81	7.8	33.38	8.2	24.5	1.91
I30	05 Feb 2015	18	15.89	85.29	7.8	33.38	8.2	24.5	2.05
I30	05 Feb 2015	19	15.78	85.23	7.8	33.37	8.2	24.5	2.05
I30	05 Feb 2015	20	15.72	85.49	7.8	33.37	8.2	24.6	2.09
I30	05 Feb 2015	21	15.67	85.61	7.7	33.37	8.2	24.6	2.06
I30	05 Feb 2015	22	15.61	85.68	7.7	33.36	8.2	24.6	2.07
I30	05 Feb 2015	23	15.44	85.78	7.6	33.35	8.2	24.6	2.09
I30	05 Feb 2015	24	15.26	85.91	7.4	33.34	8.2	24.6	2.02
I30	05 Feb 2015	25	14.95	86.18	7.2	33.33	8.2	24.7	1.85
I30	05 Feb 2015	26	14.59	85.87	7.0	33.33	8.2	24.8	1.55
I30	05 Feb 2015	27	14.30	82.93	6.9	33.33	8.2	24.8	1.37
I30	05 Feb 2015	28	14.24	76.93	6.8	33.33	8.1	24.8	1.30
I31	05 Feb 2015	1	16.47	87.13	7.8	33.40	8.2	24.4	0.57
I31	05 Feb 2015	2	16.46	87.37	7.8	33.40	8.2	24.4	0.58
I31	05 Feb 2015	3	16.43	87.53	7.8	33.40	8.2	24.4	0.62
I31	05 Feb 2015	4	16.42	87.60	7.8	33.40	8.2	24.4	0.61
I31	05 Feb 2015	5	16.37	87.60	7.8	33.39	8.2	24.4	0.64
I31	05 Feb 2015	6	16.08	87.90	7.8	33.36	8.2	24.5	0.78
I31	05 Feb 2015	7	15.87	87.52	7.9	33.37	8.2	24.5	0.94
I31	05 Feb 2015	8	15.82	87.04	7.9	33.37	8.2	24.5	1.08
I31	05 Feb 2015	9	15.79	86.50	7.8	33.37	8.2	24.5	1.24
I31	05 Feb 2015	10	15.72	86.36	7.8	33.36	8.2	24.6	1.36
I31	05 Feb 2015	11	15.59	85.97	7.7	33.35	8.2	24.6	1.49
I31	05 Feb 2015	12	15.48	84.99	7.6	33.35	8.2	24.6	1.66
I31	05 Feb 2015	13	15.41	83.53	7.6	33.35	8.2	24.6	1.77
I31	05 Feb 2015	14	15.35	83.21	7.5	33.35	8.2	24.6	1.87
I31	05 Feb 2015	15	15.25	82.87	7.5	33.35	8.2	24.6	1.91
I31	05 Feb 2015	16	15.21	82.76	7.4	33.35	8.2	24.7	1.87
I31	05 Feb 2015	17	15.04	82.84	7.4	33.33	8.2	24.7	1.87
I31	05 Feb 2015	18	14.89	82.13	7.2	33.34	8.2	24.7	1.78
I31	05 Feb 2015	19	14.66	81.59	7.0	33.32	8.2	24.7	1.65
I33	05 Feb 2015	1	16.25	86.34	8.0	33.38	8.2	24.4	1.30
I33	05 Feb 2015	2	16.25	86.57	8.0	33.38	8.2	24.4	1.37
I33	05 Feb 2015	3	16.23	86.57	8.0	33.38	8.2	24.4	1.51
I33	05 Feb 2015	4	16.22	86.21	8.0	33.38	8.2	24.4	1.63
I33	05 Feb 2015	5	16.20	85.86	8.0	33.38	8.2	24.5	1.73
I33	05 Feb 2015	6	16.17	85.69	7.9	33.38	8.2	24.5	1.89
I33	05 Feb 2015	7	15.95	85.39	7.7	33.35	8.2	24.5	2.12
I33	05 Feb 2015	8	15.53	85.27	7.5	33.34	8.2	24.6	2.06
I33	05 Feb 2015	9	15.33	85.54	7.4	33.35	8.2	24.6	1.98
I33	05 Feb 2015	10	15.30	85.45	7.4	33.35	8.2	24.6	1.96
I33	05 Feb 2015	11	15.30	85.40	7.5	33.35	8.2	24.6	1.98
I33	05 Feb 2015	12	15.30	85.34	7.5	33.35	8.2	24.6	2.01
I33	05 Feb 2015	13	15.29	84.99	7.4	33.35	8.2	24.6	2.08
I33	05 Feb 2015	14	15.26	85.53	7.5	33.35	8.2	24.6	2.19
I33	05 Feb 2015	15	15.25	85.66	7.5	33.35	8.2	24.6	2.22

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I33	05 Feb 2015	16	15.24	85.71	7.4	33.35	8.2	24.6	2.16
I33	05 Feb 2015	17	15.12	85.76	7.4	33.35	8.2	24.7	2.01
I33	05 Feb 2015	18	15.06	85.97	7.3	33.35	8.2	24.7	1.78
I33	05 Feb 2015	19	14.97	85.75	7.2	33.35	8.1	24.7	1.65
I33	05 Feb 2015	20	14.88	85.49	7.2	33.34	8.1	24.7	1.56
I33	05 Feb 2015	21	14.82	85.23	7.2	33.34	8.1	24.7	1.51
I33	05 Feb 2015	22	14.81	85.27	7.2	33.34	8.1	24.7	1.51
I33	05 Feb 2015	23	14.79	85.25	7.2	33.34	8.1	24.7	1.50
I33	05 Feb 2015	24	14.78	85.34	7.2	33.34	8.1	24.7	1.47
I33	05 Feb 2015	25	14.78	85.35	7.2	33.34	8.1	24.7	1.44
I33	05 Feb 2015	26	14.67	85.12	7.1	33.34	8.1	24.8	1.36
I33	05 Feb 2015	27	14.49	84.02	7.0	33.34	8.1	24.8	1.23
I33	05 Feb 2015	28	14.41	82.04	6.9	33.34	8.1	24.8	1.17
I33	05 Feb 2015	29	14.32	80.00	6.8	33.34	8.1	24.8	1.10
I33	05 Feb 2015	30	14.23	78.56	6.7	33.34	8.1	24.9	1.07
I34	05 Feb 2015	1	16.36	78.92	7.7	33.41	8.2	24.4	1.75
I34	05 Feb 2015	2	16.36	78.89	7.6	33.41	8.2	24.4	1.79
I34	05 Feb 2015	3	16.36	79.03	7.7	33.41	8.2	24.4	1.84
I34	05 Feb 2015	4	16.36	79.04	7.6	33.40	8.2	24.4	1.86
I34	05 Feb 2015	5	16.35	78.98	7.6	33.40	8.2	24.4	1.92
I34	05 Feb 2015	6	16.35	79.05	7.6	33.40	8.2	24.4	1.94
I34	05 Feb 2015	7	16.34	78.81	7.6	33.40	8.2	24.4	1.98
I34	05 Feb 2015	8	16.33	78.82	7.6	33.40	8.2	24.4	2.00
I34	05 Feb 2015	9	16.32	78.89	7.6	33.40	8.2	24.4	1.96
I34	05 Feb 2015	10	16.25	79.51	7.7	33.39	8.2	24.5	1.92
I34	05 Feb 2015	11	16.21	80.64	7.7	33.39	8.2	24.5	1.87
I34	05 Feb 2015	12	16.16	81.40	7.7	33.39	8.2	24.5	1.84
I34	05 Feb 2015	13	16.10	81.99	7.7	33.38	8.2	24.5	1.80
I34	05 Feb 2015	14	16.06	83.01	7.7	33.38	8.2	24.5	1.82
I34	05 Feb 2015	15	16.02	83.63	7.7	33.38	8.2	24.5	1.83
I34	05 Feb 2015	16	15.95	83.89	7.6	33.37	8.2	24.5	1.82
I34	05 Feb 2015	17	15.85	83.30	7.5	33.38	8.2	24.5	1.83
I34	05 Feb 2015	18	15.80	82.55	7.4	33.37	8.2	24.5	1.85
I34	05 Feb 2015	19	15.52	81.54	7.3	33.35	8.2	24.6	1.87
I35	05 Feb 2015	1	16.52	88.58	7.9	33.40	8.2	24.4	0.38
I35	05 Feb 2015	2	16.48	88.63	7.9	33.40	8.2	24.4	0.40
I35	05 Feb 2015	3	16.42	88.57	7.9	33.40	8.2	24.4	0.42
I35	05 Feb 2015	4	16.41	88.39	7.9	33.40	8.2	24.4	0.44
I35	05 Feb 2015	5	16.40	88.26	7.9	33.40	8.2	24.4	0.46
I35	05 Feb 2015	6	16.40	88.34	7.9	33.40	8.2	24.4	0.48
I35	05 Feb 2015	7	16.39	88.30	7.9	33.40	8.2	24.4	0.51
I35	05 Feb 2015	8	16.39	88.31	8.0	33.40	8.2	24.4	0.52
I35	05 Feb 2015	9	16.38	88.25	8.0	33.40	8.2	24.4	0.56
I35	05 Feb 2015	10	16.36	88.18	7.9	33.39	8.2	24.4	0.60
I35	05 Feb 2015	11	16.28	87.99	7.9	33.38	8.2	24.4	0.67
I35	05 Feb 2015	12	16.09	87.50	7.9	33.37	8.2	24.5	0.82
I35	05 Feb 2015	13	15.84	86.78	7.7	33.36	8.2	24.5	1.12
I35	05 Feb 2015	14	15.62	81.08	7.6	33.36	8.2	24.6	1.45
I35	05 Feb 2015	15	15.50	77.09	7.4	33.35	8.2	24.6	1.82
I35	05 Feb 2015	16	15.39	73.66	7.4	33.35	8.2	24.6	2.08
I35	05 Feb 2015	17	15.27	71.22	7.3	33.34	8.2	24.6	2.31
I35	05 Feb 2015	18	15.17	71.69	7.2	33.34	8.2	24.7	2.35
I35	05 Feb 2015	19	15.06	67.70	7.0	33.34	8.2	24.7	2.21

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens ( $\sigma$ -t)	Chlor ( $\mu$ g/L)
I36	05 Feb 2015	1	16.59	73.31	7.7	33.42	8.2	24.4	0.84
I36	05 Feb 2015	2	16.50	73.24	7.7	33.42	8.2	24.4	0.99
I36	05 Feb 2015	3	16.44	71.39	7.6	33.42	8.2	24.4	1.36
I36	05 Feb 2015	4	16.39	67.52	7.6	33.42	8.2	24.4	1.78
I36	05 Feb 2015	5	16.37	67.38	7.6	33.42	8.2	24.4	2.19
I36	05 Feb 2015	6	16.31	67.82	7.3	33.42	8.2	24.5	2.60
I36	05 Feb 2015	7	16.22	67.33	7.1	33.41	8.2	24.5	2.62
I36	05 Feb 2015	8	16.18	66.47	6.9	33.40	8.2	24.5	2.52
I36	05 Feb 2015	9	16.15	65.29	6.8	33.40	8.2	24.5	2.57
I36	05 Feb 2015	10	16.10	47.25	6.7	33.39	8.2	24.5	2.65
I36	05 Feb 2015	11	16.04	38.71	6.8	33.39	8.2	24.5	2.59
I37	05 Feb 2015	1	16.37	79.11	7.7	33.40	8.1	24.4	1.81
I37	05 Feb 2015	2	16.37	79.03	7.7	33.40	8.1	24.4	1.82
I37	05 Feb 2015	3	16.36	79.03	7.7	33.40	8.1	24.4	1.80
I37	05 Feb 2015	4	16.36	79.00	7.7	33.40	8.1	24.4	1.78
I37	05 Feb 2015	5	16.35	79.03	7.7	33.40	8.1	24.4	1.78
I37	05 Feb 2015	6	16.34	78.96	7.7	33.40	8.1	24.4	1.77
I37	05 Feb 2015	7	16.34	79.10	7.7	33.40	8.1	24.4	1.76
I37	05 Feb 2015	8	16.33	79.18	7.7	33.40	8.1	24.4	1.75
I37	05 Feb 2015	9	16.33	79.07	7.7	33.40	8.1	24.4	1.73
I37	05 Feb 2015	10	16.33	79.05	7.7	33.40	8.1	24.4	1.71
I37	05 Feb 2015	11	16.32	79.09	7.5	33.40	8.1	24.4	1.73
I37	05 Feb 2015	12	16.01	78.86	7.3	33.35	8.1	24.5	2.02
I38	05 Feb 2015	1	16.57	86.45	7.8	33.41	8.2	24.4	0.46
I38	05 Feb 2015	2	16.50	86.47	7.8	33.41	8.2	24.4	0.48
I38	05 Feb 2015	3	16.47	86.43	7.8	33.41	8.2	24.4	0.52
I38	05 Feb 2015	4	16.46	86.32	7.8	33.41	8.2	24.4	0.54
I38	05 Feb 2015	5	16.46	86.26	7.8	33.41	8.2	24.4	0.56
I38	05 Feb 2015	6	16.45	86.24	7.8	33.41	8.2	24.4	0.60
I38	05 Feb 2015	7	16.44	86.17	7.8	33.41	8.2	24.4	0.66
I38	05 Feb 2015	8	16.40	85.84	7.6	33.41	8.2	24.4	0.90
I38	05 Feb 2015	9	16.30	83.26	7.4	33.41	8.2	24.5	1.35
I38	05 Feb 2015	10	16.24	78.16	7.2	33.41	8.2	24.5	1.82
I38	05 Feb 2015	11	16.22	75.09	7.1	33.41	8.2	24.5	2.29

This page intentionally left blank



***APPENDIX A***  
***QUALITY ASSURANCE***



**Table A.1**

Summary of bacteriological quality assurance field and laboratory 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	03 Feb 2015	18	SR	LAB DUPLICATE	<2	<2	<2
I9	03 Feb 2015	27	SR	LAB DUPLICATE	<2	<2	<2
I12	04 Feb 2015	18	LMA	LAB DUPLICATE	4e	ns	<2
I12	04 Feb 2015	18	ZV	LAB DUPLICATE	ns	<2	ns
I13	03 Feb 2015	18	SR	LAB DUPLICATE	<2	<2	<2
I14	04 Feb 2015	2	LMA	LAB DUPLICATE	<2	ns	<2
I14	04 Feb 2015	2	ZV	LAB DUPLICATE	ns	<2	ns
I16	04 Feb 2015	18	LMA	LAB DUPLICATE	6e	ns	<2
I16	04 Feb 2015	18	ZV	LAB DUPLICATE	ns	<2	ns
I19	04 Feb 2015	6	LMA	FIELD DUPLICATE	720	ns	120e
I19	04 Feb 2015	6	ZV	FIELD DUPLICATE	ns	20e	ns
I19	04 Feb 2015	6	LMA	LAB DUPLICATE	2800e	ns	100
I19	04 Feb 2015	6	ZV	LAB DUPLICATE	ns	100e	ns
I19	12 Feb 2015	6	AR	LAB DUPLICATE	<20	<2	<2
I19	18 Feb 2015	6	ZV	LAB DUPLICATE	<2	<2	<2
I19	22 Feb 2015	6	JT	LAB DUPLICATE	<2	<2	<2
I19	27 Feb 2015	6	SR	LAB DUPLICATE	900	70	4e
I20	03 Feb 2015	55	SR	LAB DUPLICATE	2e	<2	<2
I32	05 Feb 2015	9	SR	LAB DUPLICATE	<2	<2	<2
I36	05 Feb 2015	11	SR	LAB DUPLICATE	<20	2e	<2
I40	12 Feb 2015	6	AR	LAB DUPLICATE	<2	<2	<2
I40	18 Feb 2015	6	ZV	LAB DUPLICATE	<2	<2	<2
I40	22 Feb 2015	6	SR	LAB DUPLICATE	<2	<2	2e
I40	27 Feb 2015	6	SR	LAB DUPLICATE	880	64	2e
S12	03 Feb 2015		JT	FIELD DUPLICATE	<2	2e	<2
S12	03 Feb 2015		JT	LAB DUPLICATE	<2	<2	<2
S12	10 Feb 2015		JT	FIELD DUPLICATE	6e	2e	<2
S12	10 Feb 2015		JT	LAB DUPLICATE	8e	<2	<2
S12	17 Feb 2015		ZV	FIELD DUPLICATE	2e	2e	6e
S12	17 Feb 2015		ZV	LAB DUPLICATE	6e	6e	<2
S12	24 Feb 2015		AR	FIELD DUPLICATE	<20	2e	2e
S12	24 Feb 2015		AR	LAB DUPLICATE	<2	2e	ns

ns = not sampled

This page intentionally left blank