



Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall

(South Bay Water Reclamation Plant)

NPDES Permit No. CA0109045

March 2015



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



THE CITY OF SAN DIEGO

April 30, 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 March 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



Environmental Monitoring and Technical Services Division • Public Utilities

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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)^[1]. This document defines membrane filtration limits of 20–80 colonies per plate for total coliforms and 20–60 colonies per plate for fecal coliforms and *Enterococcus*. No Data (ND) is reported if plate counts from all dilutions have a total colony count of >200 per plate.

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

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

- (1) Total coliform density shall not exceed 1000 CFU/100 mL;
- (2) Fecal coliform density shall not exceed 200 CFU/100 mL;

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

(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 March, six of the eight shore stations located north of the border were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards (see below); these standards do not apply to stations located in Mexican waters.
 - The 30-day geometric mean standards for total coliforms and fecal coliforms were each exceeded at station S5 on multiple days during the month.

- The 30-day geometric mean standard for *Enterococcus* was exceeded at stations S5 and S11 on multiple days during the month.
- The single sample maximum (SSM) standard for total coliforms was exceeded at stations S5, S11, and S12 on one or more days during the month.
- The SSM standard for fecal coliforms was exceeded at stations S5, S8, S11, and S12 on one or more days during the month.
- The SSM standard for *Enterococcus* was exceeded at stations S5, S6, S8, S9, S11, and S12 on one or more days during the month.
- The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S5 S6, S11, and S12 on one or more 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 exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater samples collected at station S0 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 March included: water flowing from a storm drain at stations S0 and S3; a detergent-like odor at station S5. 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 during March (i.e. March 7, 11, 17, 23, 26).
- During March, two 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 station on March 7.
 - 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 I25 on March 7.
 - Per 2012 Ocean Plan requirements, resamples were collected in response to these SSM exceedances (see Table 3.8 for details).
 - Resamples are no longer collected at kelp bed stations as of March 24, 2015.
- Water column temperatures ranged from 12.26 to 18.09°C. The difference between surface and bottom waters ranged from approximately 0.64 to 5.48°C, indicating the water column was stratified at these sites.
- Chlorophyll *a* concentrations ranged from 0.25 to 8.21 µg/L at these stations, suggesting the presence of phytoplankton blooms during the month.
- Nothing of sewage origin was observed at any of the kelp bed stations.

➤ **Offshore Water Quality Sampling**

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

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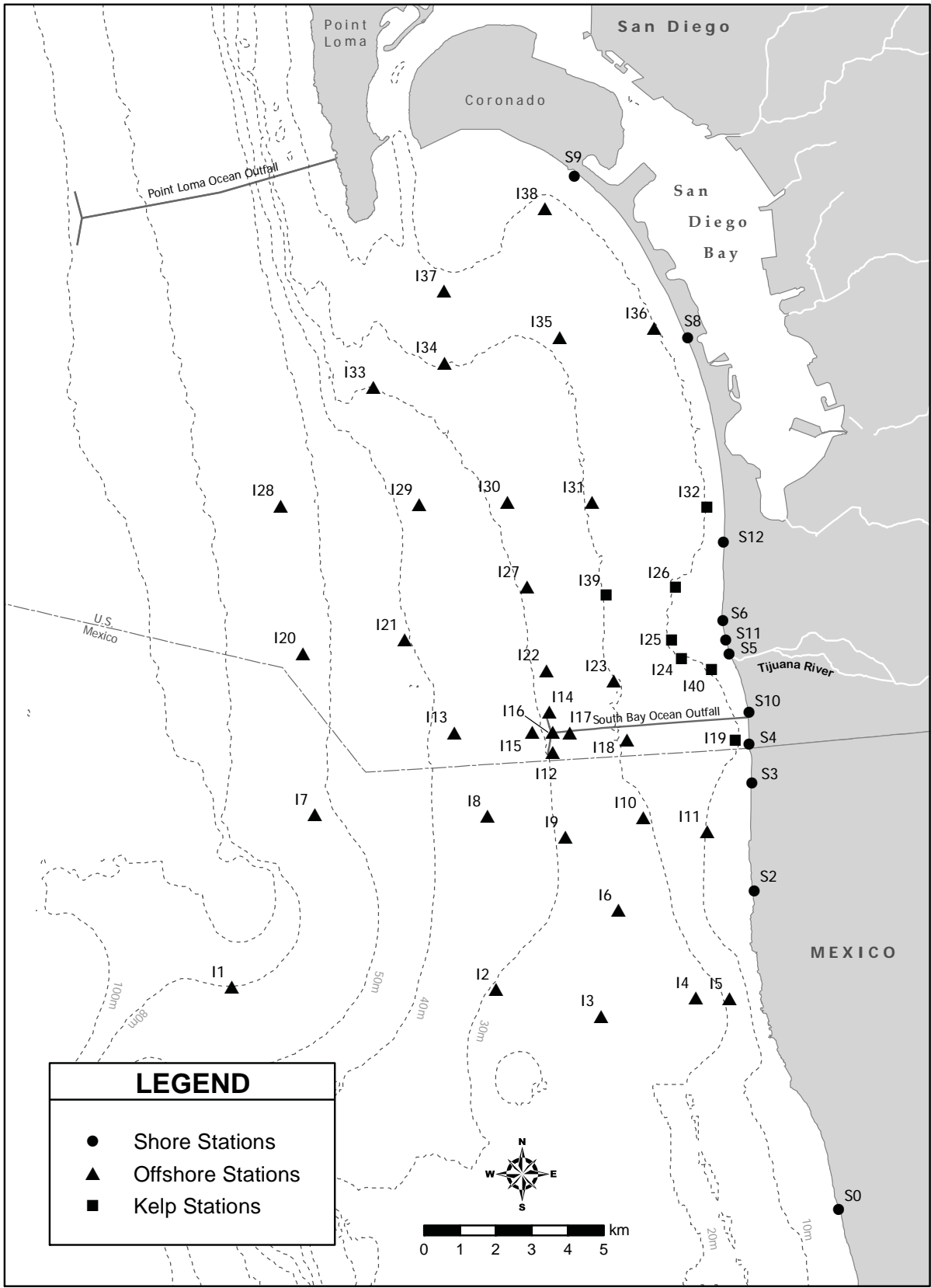


Figure 1.1 Station Map

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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 Mar 2015	81	1974	5*	4*	9*	216	14*	4*
02 Mar 2015	81	1974	5*	4*	9*	216	14*	4*
03 Mar 2015	72	2491	18	15	24	184	57	20
04 Mar 2015	72	2491	18	15	24	184	57	20
05 Mar 2015	25	1908	37	25*	45*	97	141	66
06 Mar 2015	25	1908	37	25*	45*	97	141	66
07 Mar 2015	16*	2320	37	25*	45*	94	141	66
08 Mar 2015	16*	2320	37	25*	45*	94	141	66
09 Mar 2015	16*	2320	37	25*	45*	94	141	66
10 Mar 2015	16	2282	34	17	38	72	232	54
11 Mar 2015	16	2282	34	17	38	72	232	54
12 Mar 2015	22*	3596	59	30*	53*	130	599	79
13 Mar 2015	22*	2666	59	30*	53*	130	599	79
14 Mar 2015	22*	2666	59	30*	53*	130	599	79
15 Mar 2015	22*	2666	59	30*	53*	130	599	79
16 Mar 2015	22*	2666	59	30*	53*	130	599	79
17 Mar 2015	19	1709	42	34	50	84	292	71
18 Mar 2015	19	1709	42	34	50	84	292	71
19 Mar 2015	28*	2666	78	39*	63*	130	791	115
20 Mar 2015	28*	2666	78	39*	63*	130	791	115
21 Mar 2015	28*	2666	78	39*	63*	130	791	115
22 Mar 2015	28*	2666	78	39*	63*	130	791	115
23 Mar 2015	28*	2666	78	39*	63*	130	791	115
24 Mar 2015	26	1709	62	34	50	72	429	86
25 Mar 2015	26	1709	62	34	50	72	429	86
26 Mar 2015	19*	1366	78	69*	63*	30	264	183
27 Mar 2015	19*	1366	78	69*	63*	30	264	183
28 Mar 2015	19*	1039	78	69*	63*	12	264	183
29 Mar 2015	19*	739	78	69*	63*	10*	264	183
30 Mar 2015	22	577	62	54	50	13	206	142
31 Mar 2015	22	381	62	54	50	13	206	142

* 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 Mar 2015	10	390	3*	3*	3*	33	6*	2*
02 Mar 2015	10	390	3*	3*	3*	33	6*	2*
03 Mar 2015	10	571	8	8	6	28	27	10
04 Mar 2015	10	571	8	8	6	28	27	10
05 Mar 2015	5	551	8	12*	8*	20	45	26
06 Mar 2015	5	551	8	12*	8*	20	45	26
07 Mar 2015	4*	760	8	12*	8*	18	45	26
08 Mar 2015	4*	760	8	12*	8*	18	45	26
09 Mar 2015	4*	760	8	12*	8*	18	45	26
10 Mar 2015	5	686	6	8	6	15	61	19
11 Mar 2015	5	686	6	8	6	15	61	19
12 Mar 2015	6*	1221	8	12*	7*	22	121	30
13 Mar 2015	6*	922	8	12*	7*	22	121	30
14 Mar 2015	6*	922	8	12*	7*	22	121	30
15 Mar 2015	6*	922	8	12*	7*	22	121	30
16 Mar 2015	6*	922	8	12*	7*	22	121	30
17 Mar 2015	5	528	8	13	7	17	61	28
18 Mar 2015	5	528	8	13	7	17	61	28
19 Mar 2015	7*	771	11	13*	8*	24	121	41
20 Mar 2015	7*	771	11	13*	8*	24	121	41
21 Mar 2015	7*	771	11	13*	8*	24	121	41
22 Mar 2015	7*	771	11	13*	8*	24	121	41
23 Mar 2015	7*	771	11	13*	8*	24	121	41
24 Mar 2015	5	449	10	9	6	17	61	25
25 Mar 2015	5	449	10	9	6	17	61	25
26 Mar 2015	4*	323	14	13*	6*	9	54	41
27 Mar 2015	4*	323	14	13*	6*	9	54	41
28 Mar 2015	4*	216	14	13*	6*	4	54	41
29 Mar 2015	4*	157	14	13*	6*	4*	54	41
30 Mar 2015	6	135	13	9	5	4	45	35
31 Mar 2015	6	77	13	9	5	4	45	35

* 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 Mar 2015	7	136	2*	3*	4*	9	5*	2*
02 Mar 2015	7	136	2*	3*	4*	9	5*	2*
03 Mar 2015	9	224	6	7	8	12	19	12
04 Mar 2015	9	224	6	7	8	12	19	12
05 Mar 2015	7	265	11	16	8	11	33	27
06 Mar 2015	7	265	11	16	8	11	33	27
07 Mar 2015	9*	488	11	11	8	17*	33	24
08 Mar 2015	9*	488	11	11	8	17*	33	24
09 Mar 2015	9*	488	11	11	8	17*	33	24
10 Mar 2015	7	358	8	9	7	14	32	17
11 Mar 2015	7	358	8	9	7	14	32	17
12 Mar 2015	9*	537	11	11	6	23*	55	24
13 Mar 2015	9*	537	11	11	6	23*	55	24
14 Mar 2015	9*	537	11	11	6	23*	55	24
15 Mar 2015	9*	537	11	11	6	23*	55	24
16 Mar 2015	9*	537	11	11	6	23*	55	24
17 Mar 2015	10	380	10	12	8	19	35	25
18 Mar 2015	10	380	10	12	8	19	35	25
19 Mar 2015	8*	732	12	14	9	22*	63	33
20 Mar 2015	8*	732	12	14	9	22*	63	33
21 Mar 2015	8*	732	12	14	9	22*	63	33
22 Mar 2015	8*	732	12	14	9	22*	63	33
23 Mar 2015	8*	732	12	14	9	22*	63	33
24 Mar 2015	6	380	9	11	7	17	35	22
25 Mar 2015	6	380	9	11	7	17	35	22
26 Mar 2015	7*	247	12	14	9	11*	37	33
27 Mar 2015	7*	247	12	14	9	11*	37	33
28 Mar 2015	7*	173	12	14	9	11*	37	33
29 Mar 2015	7*	158	12	14	9	11*	37	33
30 Mar 2015	7	122	11	11	7	8	33	25
31 Mar 2015	7	57	11	11	7	8	33	25

* 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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2015	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2015	IC	E	IC	IC	IC	IC	E	E
05 Mar 2015	ns	IC	IC	ns	ns	ns	IC	IC
10 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2015	ns	IC	ns	ns	ns	ns	ns	ns
13 Mar 2015	ns	IC	ns	ns	ns	ns	ns	ns
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.5

Summary of compliance at the 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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2015	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2015	IC	E	IC	E	IC	IC	E	E
05 Mar 2015	ns	IC	IC	ns	ns	ns	IC	IC
10 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
12 Mar 2015	ns	IC	ns	ns	ns	ns	ns	ns
13 Mar 2015	ns	IC	ns	ns	ns	ns	ns	ns
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.6

Summary of compliance at the 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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2015	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2015	IC	E	E	E	E	IC	E	E
05 Mar 2015	ns	IC	IC	E	IC	ns	IC	E
07 Mar 2015	ns	ns	ns	IC	ns	ns	ns	IC
10 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC

IC = In Compliance

E = Exceedance

ns = not sampled

Table 2.7

Summary of compliance at the SBOO shore stations 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.

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Mar 2015	ns	E	ns	ns	ns	ns	ns	ns
03 Mar 2015	IC	E	E	IC	IC	IC	E	E
05 Mar 2015	ns	IC	IC	ns	ns	ns	IC	IC
10 Mar 2015	IC	E	IC	IC	IC	IC	IC	IC
12 Mar 2015	ns	E	ns	ns	ns	ns	ns	ns
13 Mar 2015	ns	IC	ns	ns	ns	ns	ns	ns
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
24 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Mar 2015	IC	IC	IC	IC	IC	IC	IC	IC

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 Mar 2015	1150	3000e	120e	800e	0.04
S0	10 Mar 2015	1115	60e	26e	30e	0.43
S0	17 Mar 2015	1057	660	40	240e	0.06
S0	24 Mar 2015	1110	1700e	120e	460	0.07
S0	30 Mar 2015	1200	<2	<2	2e	1.00
S2	03 Mar 2015	1020	60e	6e	22e	0.10
S2	10 Mar 2015	915	40e	<2	2e	0.05
S2	17 Mar 2015	935	2e	<2	<2	1.00
S2	24 Mar 2015	1020	<20	<2	<2	0.10
S2	30 Mar 2015	1055	840	96	74	0.11
S3	03 Mar 2015	930	360e	24e	60	0.07
S3	10 Mar 2015	1000	<2	<2	6e	1.00
S3	17 Mar 2015	1005	36e	2e	20e	0.06
S3	24 Mar 2015	930	<20	2e	2e	0.10
S3	30 Mar 2015	1015	80e	2e	6e	0.02
S4	03 Mar 2015	1123	40e	8e	32e	0.20
S4	10 Mar 2015	1118	16e	6e	<2	0.38
S4	17 Mar 2015	1040	10e	4e	18e	0.40
S4	24 Mar 2015	1119	<20	<2	2e	0.10
S4	30 Mar 2015	1045	40e	18e	8e	0.45
S5	01 Mar 2015	938	>16000	>12000	>12000	0.75
S5	03 Mar 2015	938	>16000	>12000	>12000	0.75
S5	05 Mar 2015	913	1000	80e	74	0.08
S5	10 Mar 2015	946	2000e	300e	30e	0.15
S5	12 Mar 2015	915	2400e	360e	ns	0.15
S5	13 Mar 2015	1033	180e	74	ns	0.41
S5	17 Mar 2015	918	20e	<2	24e	0.10
S5	24 Mar 2015	949	<20	2e	2e	0.10
S5	30 Mar 2015	906	80e	40	26e	0.50
S6	03 Mar 2015	953	2600e	400	320e	0.15
S6	05 Mar 2015	923	340e	8e	28e	0.02
S6	10 Mar 2015	1009	<20	<2	<2	0.10
S6	17 Mar 2015	932	8e	12e	8e	1.50
S6	24 Mar 2015	1002	<20	6e	2e	0.30
S6	30 Mar 2015	935	20e	10e	6e	0.50
S8	03 Mar 2015	818	4800	420	300e	0.09
S8	05 Mar 2015	835	ns	ns	150e	ns
S8	07 Mar 2015	1040	ns	ns	2e	ns
S8	10 Mar 2015	858	4e	<2	<2	0.50
S8	17 Mar 2015	755	60e	16e	20e	0.27
S8	24 Mar 2015	814	<20	<2	<2	0.10
S8	30 Mar 2015	830	<20	2e	<2	0.10

Station	Date	Time	Total	Fecal	Entero	F:T
S9	03 Mar 2015	758	1000e	74	260e	0.07
S9	05 Mar 2015	808	ns	ns	2e	ns
S9	10 Mar 2015	829	<20	<2	<2	0.10
S9	17 Mar 2015	737	40e	6e	24e	0.15
S9	24 Mar 2015	748	<20	2e	2e	0.10
S9	30 Mar 2015	804	<20	<2	2e	0.10
S10	03 Mar 2015	1128	60e	8e	36e	0.13
S10	10 Mar 2015	1127	14e	6e	6e	0.43
S10	17 Mar 2015	1047	6e	4e	10e	0.67
S10	24 Mar 2015	1124	<2	<2	6e	1.00
S10	30 Mar 2015	1056	40e	<2	2e	0.05
S11	03 Mar 2015	944	>16000	14000e	6000	0.88
S11	05 Mar 2015	918	180e	28e	56	0.16
S11	10 Mar 2015	1000	2800e	280e	26e	0.10
S11	17 Mar 2015	926	8e	<2	4e	0.25
S11	24 Mar 2015	956	<20	<2	2e	0.10
S11	30 Mar 2015	924	60e	20e	20e	0.33
S12	03 Mar 2015	1004	>16000	3800e	7400	0.24
S12	05 Mar 2015	932	800e	200e	120e	0.25
S12	07 Mar 2015	1012	ns	ns	12e	ns
S12	10 Mar 2015	1023	<20	4e	<2	0.20
S12	17 Mar 2015	941	40e	18e	32e	0.45
S12	24 Mar 2015	1016	<20	2e	<2	0.10
S12	30 Mar 2015	945	40e	16e	4e	0.40

ns = not sampled

Comments

Station	Date	Depth	Parameter	Comments
S5	01 Mar 2015			Resample
S9	05 Mar 2015			Resample
S8	05 Mar 2015			Resample
S5	05 Mar 2015			Resample
S11	05 Mar 2015			Resample
S6	05 Mar 2015			Resample
S12	05 Mar 2015			Resample
S12	07 Mar 2015			Resample
S8	07 Mar 2015			Resample
S5	12 Mar 2015			Resample
S5	13 Mar 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 Mar 2015	Arrive Time	1150
S0	03 Mar 2015	Weather	Sunny
S0	03 Mar 2015	Wind Speed (kts)	2.5
S0	03 Mar 2015	Wind Dir	NW
S0	03 Mar 2015	Animal Life	>10 Shorebirds; 1 Seal
S0	03 Mar 2015	Floatables	None
S0	03 Mar 2015	Water Color	Green
S0	03 Mar 2015	Current Direction	N
S0	03 Mar 2015	Water Temp (C)	16.5
S0	03 Mar 2015	Wave Height Low (ft)	3
S0	03 Mar 2015	High Tide (ft)	5.2
S0	03 Mar 2015	High Tide Time	732
S0	03 Mar 2015	Low Tide (ft)	-0.4
S0	03 Mar 2015	Low Tide Time	1417
S0	03 Mar 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S0	10 Mar 2015	Arrive Time	1115
S0	10 Mar 2015	Weather	Sunny
S0	10 Mar 2015	Wind Speed (kts)	2.9
S0	10 Mar 2015	Wind Dir	NW
S0	10 Mar 2015	Animal Life	5 Shorebirds; 1 Dog; 1 Seagull dead
S0	10 Mar 2015	Floatables	None
S0	10 Mar 2015	Water Color	Green
S0	10 Mar 2015	Current Direction	N
S0	10 Mar 2015	Water Temp (C)	16.5
S0	10 Mar 2015	Wave Height Low (ft)	3
S0	10 Mar 2015	High Tide (ft)	3.3
S0	10 Mar 2015	High Tide Time	1227
S0	10 Mar 2015	Low Tide (ft)	0.9
S0	10 Mar 2015	Low Tide Time	639
S0	10 Mar 2015	Comments	Kelp; 2 Persons; Water clear; Flow from stormdrain 1 L/sec
S0	17 Mar 2015	Arrive Time	1057
S0	17 Mar 2015	Weather	Sunny
S0	17 Mar 2015	Wind Speed (kts)	2
S0	17 Mar 2015	Wind Dir	SW
S0	17 Mar 2015	Animal Life	>20 Seagulls
S0	17 Mar 2015	Floatables	None
S0	17 Mar 2015	Water Color	Green
S0	17 Mar 2015	Current Direction	S

Station	Date	Parameter	Value
S0	17 Mar 2015	Water Temp (C)	16.2
S0	17 Mar 2015	Wave Height Low (ft)	4.5
S0	17 Mar 2015	High Tide (ft)	5.5
S0	17 Mar 2015	High Tide Time	722
S0	17 Mar 2015	Low Tide (ft)	-0.9
S0	17 Mar 2015	Low Tide Time	1410
S0	17 Mar 2015	Comments	Kelp; 3 Persons; Water clear; Flow from stormdrain 1 L/sec
S0	24 Mar 2015	Arrive Time	1110
S0	24 Mar 2015	Weather	Sunny
S0	24 Mar 2015	Wind Speed (kts)	2.2
S0	24 Mar 2015	Wind Dir	NE
S0	24 Mar 2015	Animal Life	8 Shorebirds
S0	24 Mar 2015	Floatables	None
S0	24 Mar 2015	Water Color	Green
S0	24 Mar 2015	Current Direction	NE
S0	24 Mar 2015	Water Temp (C)	17.5
S0	24 Mar 2015	Wave Height Low (ft)	6
S0	24 Mar 2015	High Tide (ft)	3.5
S0	24 Mar 2015	High Tide Time	1319
S0	24 Mar 2015	Low Tide (ft)	-0.1
S0	24 Mar 2015	Low Tide Time	709
S0	24 Mar 2015	Comments	Kelp; 5 Surfers; Water clear; Stormdrain flow 0.5 L/sec
S0	30 Mar 2015	Arrive Time	1200
S0	30 Mar 2015	Weather	Sunny
S0	30 Mar 2015	Wind Speed (kts)	2.6
S0	30 Mar 2015	Wind Dir	NW
S0	30 Mar 2015	Animal Life	2 Dogs; 21 Seagulls
S0	30 Mar 2015	Floatables	None
S0	30 Mar 2015	Water Color	Green
S0	30 Mar 2015	Current Direction	S
S0	30 Mar 2015	Water Temp (C)	17.2
S0	30 Mar 2015	Wave Height Low (ft)	2
S0	30 Mar 2015	High Tide (ft)	4.4
S0	30 Mar 2015	High Tide Time	658
S0	30 Mar 2015	Low Tide (ft)	0.1
S0	30 Mar 2015	Low Tide Time	1345
S0	30 Mar 2015	Comments	Kelp; Water turbid; Storm drain 1 L/sec
S2	03 Mar 2015	Arrive Time	1020
S2	03 Mar 2015	Weather	Sunny
S2	03 Mar 2015	Wind Speed (kts)	2.3
S2	03 Mar 2015	Wind Dir	NW
S2	03 Mar 2015	Animal Life	>5 Shorebirds; 1 Dog

Station	Date	Parameter	Value
S2	03 Mar 2015	Floatables	None
S2	03 Mar 2015	Water Color	Green
S2	03 Mar 2015	Current Direction	N
S2	03 Mar 2015	Water Temp (C)	16.5
S2	03 Mar 2015	Wave Height Low (ft)	3
S2	03 Mar 2015	High Tide (ft)	5.2
S2	03 Mar 2015	High Tide Time	732
S2	03 Mar 2015	Low Tide (ft)	-0.4
S2	03 Mar 2015	Low Tide Time	1417
S2	03 Mar 2015	Comments	Kelp; >5 Persons; Water clear; No flow from stormdrain
S2	10 Mar 2015	Arrive Time	915
S2	10 Mar 2015	Weather	Sunny
S2	10 Mar 2015	Wind Speed (kts)	4
S2	10 Mar 2015	Wind Dir	NW
S2	10 Mar 2015	Animal Life	15 Shorebirds; 1 Dog; 1 Dolphin
S2	10 Mar 2015	Floatables	None
S2	10 Mar 2015	Water Color	Green
S2	10 Mar 2015	Current Direction	N
S2	10 Mar 2015	Water Temp (C)	16
S2	10 Mar 2015	Wave Height Low (ft)	2
S2	10 Mar 2015	High Tide (ft)	3.3
S2	10 Mar 2015	High Tide Time	1227
S2	10 Mar 2015	Low Tide (ft)	0.9
S2	10 Mar 2015	Low Tide Time	639
S2	10 Mar 2015	Comments	Kelp; 10 Persons; Water clear; No flow from stormdrain
S2	17 Mar 2015	Arrive Time	935
S2	17 Mar 2015	Weather	Sunny
S2	17 Mar 2015	Wind Speed (kts)	2.9
S2	17 Mar 2015	Wind Dir	SW
S2	17 Mar 2015	Animal Life	10 Shorebirds
S2	17 Mar 2015	Floatables	None
S2	17 Mar 2015	Water Color	Green
S2	17 Mar 2015	Current Direction	S
S2	17 Mar 2015	Water Temp (C)	16
S2	17 Mar 2015	Wave Height Low (ft)	4
S2	17 Mar 2015	High Tide (ft)	5.5
S2	17 Mar 2015	High Tide Time	722
S2	17 Mar 2015	Low Tide (ft)	-0.9
S2	17 Mar 2015	Low Tide Time	1410
S2	17 Mar 2015	Comments	Kelp; 10 Persons; Water clear; No flow from stormdrain
S2	24 Mar 2015	Arrive Time	1020

Station	Date	Parameter	Value
S2	24 Mar 2015	Weather	Sunny
S2	24 Mar 2015	Wind Speed (kts)	1.8
S2	24 Mar 2015	Wind Dir	NE
S2	24 Mar 2015	Animal Life	13 Shorebirds
S2	24 Mar 2015	Floatables	None
S2	24 Mar 2015	Water Color	Green
S2	24 Mar 2015	Current Direction	NE
S2	24 Mar 2015	Water Temp (C)	17.5
S2	24 Mar 2015	Wave Height Low (ft)	5
S2	24 Mar 2015	High Tide (ft)	3.5
S2	24 Mar 2015	High Tide Time	1319
S2	24 Mar 2015	Low Tide (ft)	-0.1
S2	24 Mar 2015	Low Tide Time	709
S2	24 Mar 2015	Comments	Kelp; Water clear
S3	03 Mar 2015	Arrive Time	930
S3	03 Mar 2015	Weather	Sunny
S3	03 Mar 2015	Wind Speed (kts)	2.7
S3	03 Mar 2015	Wind Dir	NW
S3	03 Mar 2015	Animal Life	3 Dogs; >10 Seagulls
S3	03 Mar 2015	Floatables	None
S3	03 Mar 2015	Water Color	Green
S3	03 Mar 2015	Current Direction	N
S3	03 Mar 2015	Water Temp (C)	17
S3	03 Mar 2015	Wave Height Low (ft)	3
S3	03 Mar 2015	High Tide (ft)	5.2
S3	03 Mar 2015	High Tide Time	732
S3	03 Mar 2015	Low Tide (ft)	-0.4
S3	03 Mar 2015	Low Tide Time	1417
S3	03 Mar 2015	Comments	Kelp; >10 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S3	10 Mar 2015	Arrive Time	1000
S3	10 Mar 2015	Weather	Sunny
S3	10 Mar 2015	Wind Speed (kts)	3.6
S3	10 Mar 2015	Wind Dir	NW
S3	10 Mar 2015	Animal Life	10 Shorebirds; 3 Dogs
S3	10 Mar 2015	Floatables	None
S3	10 Mar 2015	Water Color	Green
S3	10 Mar 2015	Current Direction	N
S3	10 Mar 2015	Water Temp (C)	16.5
S3	10 Mar 2015	Wave Height Low (ft)	2
S3	10 Mar 2015	High Tide (ft)	3.3
S3	10 Mar 2015	High Tide Time	1227
S3	10 Mar 2015	Low Tide (ft)	0.9
S3	10 Mar 2015	Low Tide Time	639

Station	Date	Parameter	Value
S3	10 Mar 2015	Comments	Kelp; 15 Persons; Water clear; No flow from stormdrain
S3	17 Mar 2015	Arrive Time	1005
S3	17 Mar 2015	Weather	Sunny
S3	17 Mar 2015	Wind Speed (kts)	2.3
S3	17 Mar 2015	Wind Dir	SW
S3	17 Mar 2015	Animal Life	3 Dogs; 5 Seagulls
S3	17 Mar 2015	Floatables	None
S3	17 Mar 2015	Water Color	Green
S3	17 Mar 2015	Current Direction	S
S3	17 Mar 2015	Water Temp (C)	16.5
S3	17 Mar 2015	Wave Height Low (ft)	4
S3	17 Mar 2015	High Tide (ft)	5.5
S3	17 Mar 2015	High Tide Time	722
S3	17 Mar 2015	Low Tide (ft)	-0.9
S3	17 Mar 2015	Low Tide Time	1410
S3	17 Mar 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S3	24 Mar 2015	Arrive Time	930
S3	24 Mar 2015	Weather	Sunny
S3	24 Mar 2015	Wind Speed (kts)	2.1
S3	24 Mar 2015	Wind Dir	NE
S3	24 Mar 2015	Animal Life	3 Shorebirds; 2 Dogs
S3	24 Mar 2015	Floatables	None
S3	24 Mar 2015	Water Color	Green
S3	24 Mar 2015	Current Direction	E
S3	24 Mar 2015	Water Temp (C)	17
S3	24 Mar 2015	Wave Height Low (ft)	6
S3	24 Mar 2015	High Tide (ft)	3.5
S3	24 Mar 2015	High Tide Time	1319
S3	24 Mar 2015	Low Tide (ft)	-0.1
S3	24 Mar 2015	Low Tide Time	709
S3	24 Mar 2015	Comments	3 Surfers; Water clear; Stormdrain flow 0.5 L/sec
S4	03 Mar 2015	Arrive Time	1123
S4	03 Mar 2015	Weather	Cloudy
S4	03 Mar 2015	Wind Speed (kts)	3.4
S4	03 Mar 2015	Wind Dir	W
S4	03 Mar 2015	Animal Life	None
S4	03 Mar 2015	Floatables	None
S4	03 Mar 2015	Water Color	Green
S4	03 Mar 2015	Current Direction	N
S4	03 Mar 2015	Water Temp (C)	16.2
S4	03 Mar 2015	Wave Height Low (ft)	3

Station	Date	Parameter	Value
S4	03 Mar 2015	High Tide (ft)	5.2
S4	03 Mar 2015	High Tide Time	732
S4	03 Mar 2015	Low Tide (ft)	-0.4
S4	03 Mar 2015	Low Tide Time	1417
S4	03 Mar 2015	Comments	Water turbid
S4	10 Mar 2015	Arrive Time	1118
S4	10 Mar 2015	Weather	Sunny
S4	10 Mar 2015	Wind Speed (kts)	4.6
S4	10 Mar 2015	Wind Dir	NW
S4	10 Mar 2015	Animal Life	1 Seal
S4	10 Mar 2015	Floatables	None
S4	10 Mar 2015	Water Color	Green
S4	10 Mar 2015	Current Direction	N
S4	10 Mar 2015	Water Temp (C)	15.6
S4	10 Mar 2015	Wave Height Low (ft)	3
S4	10 Mar 2015	High Tide (ft)	3.3
S4	10 Mar 2015	High Tide Time	1227
S4	10 Mar 2015	Low Tide (ft)	0.9
S4	10 Mar 2015	Low Tide Time	639
S4	10 Mar 2015	Comments	Water turbid; Injured seal near
S4	17 Mar 2015	Arrive Time	1040
S4	17 Mar 2015	Weather	Sunny
S4	17 Mar 2015	Wind Speed (kts)	3.4
S4	17 Mar 2015	Wind Dir	SW
S4	17 Mar 2015	Animal Life	None
S4	17 Mar 2015	Floatables	None
S4	17 Mar 2015	Water Color	Green
S4	17 Mar 2015	Current Direction	N
S4	17 Mar 2015	Water Temp (C)	17.6
S4	17 Mar 2015	Wave Height Low (ft)	3
S4	17 Mar 2015	High Tide (ft)	5.5
S4	17 Mar 2015	High Tide Time	722
S4	17 Mar 2015	Low Tide (ft)	-0.9
S4	17 Mar 2015	Low Tide Time	1410
S4	17 Mar 2015	Comments	Water clear
S4	24 Mar 2015	Arrive Time	1119
S4	24 Mar 2015	Weather	Sunny
S4	24 Mar 2015	Wind Speed (kts)	3.8
S4	24 Mar 2015	Wind Dir	W
S4	24 Mar 2015	Animal Life	None
S4	24 Mar 2015	Floatables	None
S4	24 Mar 2015	Water Color	Green
S4	24 Mar 2015	Current Direction	N
S4	24 Mar 2015	Water Temp (C)	18.6

Station	Date	Parameter	Value
S4	24 Mar 2015	Wave Height Low (ft)	3
S4	24 Mar 2015	High Tide (ft)	3.5
S4	24 Mar 2015	High Tide Time	1319
S4	24 Mar 2015	Low Tide (ft)	-0.1
S4	24 Mar 2015	Low Tide Time	709
S4	24 Mar 2015	Comments	Water clear
S5	01 Mar 2015	Arrive Time	938
S5	01 Mar 2015	Weather	Drizzle
S5	01 Mar 2015	Wind Speed (kts)	4
S5	01 Mar 2015	Wind Dir	E
S5	01 Mar 2015	Animal Life	None
S5	01 Mar 2015	Floatables	None
S5	01 Mar 2015	Water Color	Green
S5	01 Mar 2015	Current Direction	E
S5	01 Mar 2015	Water Temp (C)	25
S5	01 Mar 2015	Wave Height Low (ft)	3
S5	01 Mar 2015	High Tide (ft)	5
S5	01 Mar 2015	High Tide Time	619
S5	01 Mar 2015	Low Tide (ft)	-0.3
S5	01 Mar 2015	Low Tide Time	1323
S5	01 Mar 2015	Comments	Kelp; Seagrass; Water turbid; Detergent like odor
S5	03 Mar 2015	Arrive Time	938
S5	03 Mar 2015	Weather	Sunny
S5	03 Mar 2015	Wind Speed (kts)	4.2
S5	03 Mar 2015	Wind Dir	E
S5	03 Mar 2015	Animal Life	10 Shorebirds
S5	03 Mar 2015	Floatables	Wood floating with current
S5	03 Mar 2015	Water Color	Brown
S5	03 Mar 2015	Current Direction	N
S5	03 Mar 2015	Water Temp (C)	16.4
S5	03 Mar 2015	Wave Height Low (ft)	2
S5	03 Mar 2015	High Tide (ft)	5.2
S5	03 Mar 2015	High Tide Time	732
S5	03 Mar 2015	Low Tide (ft)	-0.4
S5	03 Mar 2015	Low Tide Time	1417
S5	03 Mar 2015	Comments	Kelp; Seagrass; Water turbid; Detergent-like smell
S5	05 Mar 2015	Arrive Time	913
S5	05 Mar 2015	Weather	Sunny
S5	05 Mar 2015	Wind Speed (kts)	8.9
S5	05 Mar 2015	Wind Dir	W
S5	05 Mar 2015	Animal Life	None
S5	05 Mar 2015	Floatables	None

Station	Date	Parameter	Value
S5	05 Mar 2015	Water Color	Green
S5	05 Mar 2015	Current Direction	N
S5	05 Mar 2015	Water Temp (C)	16.4
S5	05 Mar 2015	Wave Height Low (ft)	3
S5	05 Mar 2015	High Tide (ft)	5.1
S5	05 Mar 2015	High Tide Time	834
S5	05 Mar 2015	Low Tide (ft)	-0.2
S5	05 Mar 2015	Low Tide Time	1505
S5	05 Mar 2015	Comments	Kelp; Water clear
S5	10 Mar 2015	Arrive Time	946
S5	10 Mar 2015	Weather	Sunny
S5	10 Mar 2015	Wind Speed (kts)	3.8
S5	10 Mar 2015	Wind Dir	NW
S5	10 Mar 2015	Animal Life	15 Birds
S5	10 Mar 2015	Floatables	None
S5	10 Mar 2015	Water Color	Green
S5	10 Mar 2015	Current Direction	N
S5	10 Mar 2015	Water Temp (C)	17.5
S5	10 Mar 2015	Wave Height Low (ft)	2
S5	10 Mar 2015	High Tide (ft)	3.3
S5	10 Mar 2015	High Tide Time	1227
S5	10 Mar 2015	Low Tide (ft)	0.9
S5	10 Mar 2015	Low Tide Time	639
S5	10 Mar 2015	Comments	Water clear
S5	12 Mar 2015	Arrive Time	915
S5	12 Mar 2015	Weather	Sunny
S5	12 Mar 2015	Wind Speed (kts)	3.3
S5	12 Mar 2015	Wind Dir	NW
S5	12 Mar 2015	Animal Life	None
S5	12 Mar 2015	Floatables	None
S5	12 Mar 2015	Water Color	Green
S5	12 Mar 2015	Current Direction	S
S5	12 Mar 2015	Water Temp (C)	16.4
S5	12 Mar 2015	Wave Height Low (ft)	2
S5	12 Mar 2015	High Tide (ft)	2.6
S5	12 Mar 2015	High Tide Time	1514
S5	12 Mar 2015	Low Tide (ft)	1
S5	12 Mar 2015	Low Tide Time	901
S5	12 Mar 2015	Comments	Water clear
S5	13 Mar 2015	Arrive Time	1033
S5	13 Mar 2015	Weather	Sunny
S5	13 Mar 2015	Wind Speed (kts)	1.1
S5	13 Mar 2015	Wind Dir	N
S5	13 Mar 2015	Animal Life	None

Station	Date	Parameter	Value
S5	13 Mar 2015	Floatables	None
S5	13 Mar 2015	Water Color	Green
S5	13 Mar 2015	Current Direction	N
S5	13 Mar 2015	Water Temp (C)	17.6
S5	13 Mar 2015	Wave Height Low (ft)	2
S5	13 Mar 2015	High Tide (ft)	2.7
S5	13 Mar 2015	High Tide Time	1718
S5	13 Mar 2015	Low Tide (ft)	0.8
S5	13 Mar 2015	Low Tide Time	1035
S5	13 Mar 2015	Comments	Water clear; Detergent-like smell
S5	17 Mar 2015	Arrive Time	918
S5	17 Mar 2015	Weather	Sunny
S5	17 Mar 2015	Wind Speed (kts)	0.3
S5	17 Mar 2015	Wind Dir	S
S5	17 Mar 2015	Animal Life	None
S5	17 Mar 2015	Floatables	Wood
S5	17 Mar 2015	Water Color	Green
S5	17 Mar 2015	Current Direction	N
S5	17 Mar 2015	Water Temp (C)	17.9
S5	17 Mar 2015	Wave Height Low (ft)	3
S5	17 Mar 2015	High Tide (ft)	5.5
S5	17 Mar 2015	High Tide Time	722
S5	17 Mar 2015	Low Tide (ft)	-0.9
S5	17 Mar 2015	Low Tide Time	1410
S5	17 Mar 2015	Comments	Kelp; Seagrass; Debris; Water turbid
S5	24 Mar 2015	Arrive Time	949
S5	24 Mar 2015	Weather	Sunny
S5	24 Mar 2015	Wind Speed (kts)	4.6
S5	24 Mar 2015	Wind Dir	W
S5	24 Mar 2015	Animal Life	None
S5	24 Mar 2015	Floatables	None
S5	24 Mar 2015	Water Color	Green
S5	24 Mar 2015	Current Direction	N
S5	24 Mar 2015	Water Temp (C)	18.7
S5	24 Mar 2015	Wave Height Low (ft)	2
S5	24 Mar 2015	High Tide (ft)	3.5
S5	24 Mar 2015	High Tide Time	1319
S5	24 Mar 2015	Low Tide (ft)	-0.1
S5	24 Mar 2015	Low Tide Time	709
S5	24 Mar 2015	Comments	Water clear
S6	03 Mar 2015	Arrive Time	953
S6	03 Mar 2015	Weather	Sunny
S6	03 Mar 2015	Wind Speed (kts)	0.8
S6	03 Mar 2015	Wind Dir	E

Station	Date	Parameter	Value
S6	03 Mar 2015	Animal Life	None
S6	03 Mar 2015	Floatables	None
S6	03 Mar 2015	Water Color	Brown
S6	03 Mar 2015	Current Direction	N
S6	03 Mar 2015	Water Temp (C)	16.3
S6	03 Mar 2015	Wave Height Low (ft)	3
S6	03 Mar 2015	High Tide (ft)	5.2
S6	03 Mar 2015	High Tide Time	732
S6	03 Mar 2015	Low Tide (ft)	-0.4
S6	03 Mar 2015	Low Tide Time	1417
S6	03 Mar 2015	Comments	Water turbid
S6	05 Mar 2015	Arrive Time	923
S6	05 Mar 2015	Weather	Sunny
S6	05 Mar 2015	Wind Speed (kts)	7.2
S6	05 Mar 2015	Wind Dir	W
S6	05 Mar 2015	Animal Life	None
S6	05 Mar 2015	Floatables	None
S6	05 Mar 2015	Water Color	Green
S6	05 Mar 2015	Current Direction	N
S6	05 Mar 2015	Water Temp (C)	16.4
S6	05 Mar 2015	Wave Height Low (ft)	3
S6	05 Mar 2015	High Tide (ft)	5.1
S6	05 Mar 2015	High Tide Time	834
S6	05 Mar 2015	Low Tide (ft)	-0.2
S6	05 Mar 2015	Low Tide Time	1505
S6	05 Mar 2015	Comments	Water clear
S6	10 Mar 2015	Arrive Time	1009
S6	10 Mar 2015	Weather	Sunny
S6	10 Mar 2015	Wind Speed (kts)	5.6
S6	10 Mar 2015	Wind Dir	NW
S6	10 Mar 2015	Animal Life	3 Pelicans
S6	10 Mar 2015	Floatables	None
S6	10 Mar 2015	Water Color	Green
S6	10 Mar 2015	Current Direction	N
S6	10 Mar 2015	Water Temp (C)	16.4
S6	10 Mar 2015	Wave Height Low (ft)	3
S6	10 Mar 2015	High Tide (ft)	3.3
S6	10 Mar 2015	High Tide Time	1227
S6	10 Mar 2015	Low Tide (ft)	0.9
S6	10 Mar 2015	Low Tide Time	639
S6	10 Mar 2015	Comments	Water clear
S6	17 Mar 2015	Arrive Time	932
S6	17 Mar 2015	Weather	Sunny
S6	17 Mar 2015	Wind Speed (kts)	1.3

Station	Date	Parameter	Value
S6	17 Mar 2015	Wind Dir	S
S6	17 Mar 2015	Animal Life	None
S6	17 Mar 2015	Floatables	None
S6	17 Mar 2015	Water Color	Green
S6	17 Mar 2015	Current Direction	N
S6	17 Mar 2015	Water Temp (C)	17.8
S6	17 Mar 2015	Wave Height Low (ft)	3
S6	17 Mar 2015	High Tide (ft)	5.5
S6	17 Mar 2015	High Tide Time	722
S6	17 Mar 2015	Low Tide (ft)	-0.9
S6	17 Mar 2015	Low Tide Time	1410
S6	17 Mar 2015	Comments	4 Surfers; Water clear
S6	24 Mar 2015	Arrive Time	1002
S6	24 Mar 2015	Weather	Sunny
S6	24 Mar 2015	Wind Speed (kts)	5.6
S6	24 Mar 2015	Wind Dir	W
S6	24 Mar 2015	Animal Life	1 Seal
S6	24 Mar 2015	Floatables	None
S6	24 Mar 2015	Water Color	Green
S6	24 Mar 2015	Current Direction	N
S6	24 Mar 2015	Water Temp (C)	17.6
S6	24 Mar 2015	Wave Height Low (ft)	4
S6	24 Mar 2015	High Tide (ft)	3.5
S6	24 Mar 2015	High Tide Time	1319
S6	24 Mar 2015	Low Tide (ft)	-0.1
S6	24 Mar 2015	Low Tide Time	709
S6	24 Mar 2015	Comments	3 Joggers; 2 Persons; 4 Surfers; Water clear
S8	03 Mar 2015	Arrive Time	818
S8	03 Mar 2015	Weather	Sunny
S8	03 Mar 2015	Wind Speed (kts)	0.3
S8	03 Mar 2015	Wind Dir	W
S8	03 Mar 2015	Animal Life	None
S8	03 Mar 2015	Floatables	None
S8	03 Mar 2015	Water Color	Brown
S8	03 Mar 2015	Current Direction	N
S8	03 Mar 2015	Water Temp (C)	16.3
S8	03 Mar 2015	Wave Height Low (ft)	2
S8	03 Mar 2015	High Tide (ft)	5.2
S8	03 Mar 2015	High Tide Time	732
S8	03 Mar 2015	Low Tide (ft)	-0.4
S8	03 Mar 2015	Low Tide Time	1417
S8	03 Mar 2015	Comments	Kelp; Water turbid
S8	05 Mar 2015	Arrive Time	835

Station	Date	Parameter	Value
S8	05 Mar 2015	Weather	Sunny
S8	05 Mar 2015	Wind Speed (kts)	0.4
S8	05 Mar 2015	Wind Dir	E
S8	05 Mar 2015	Animal Life	None
S8	05 Mar 2015	Floatables	None
S8	05 Mar 2015	Water Color	Green
S8	05 Mar 2015	Current Direction	N
S8	05 Mar 2015	Water Temp (C)	16.4
S8	05 Mar 2015	Wave Height Low (ft)	2
S8	05 Mar 2015	High Tide (ft)	5.1
S8	05 Mar 2015	High Tide Time	834
S8	05 Mar 2015	Low Tide (ft)	0.7
S8	05 Mar 2015	Low Tide Time	239
S8	05 Mar 2015	Comments	Kelp; Water turbid
S8	07 Mar 2015	Arrive Time	1040
S8	07 Mar 2015	Weather	Sunny
S8	07 Mar 2015	Wind Speed (kts)	1.4
S8	07 Mar 2015	Wind Dir	W
S8	07 Mar 2015	Animal Life	None
S8	07 Mar 2015	Floatables	None
S8	07 Mar 2015	Water Color	Green
S8	07 Mar 2015	Current Direction	N
S8	07 Mar 2015	Water Temp (C)	17.4
S8	07 Mar 2015	Wave Height Low (ft)	2
S8	07 Mar 2015	High Tide (ft)	4.6
S8	07 Mar 2015	High Tide Time	936
S8	07 Mar 2015	Low Tide (ft)	0.3
S8	07 Mar 2015	Low Tide Time	1553
S8	07 Mar 2015	Comments	2 Persons; Water clear
S8	10 Mar 2015	Arrive Time	858
S8	10 Mar 2015	Weather	Sunny
S8	10 Mar 2015	Wind Speed (kts)	0.7
S8	10 Mar 2015	Wind Dir	SE
S8	10 Mar 2015	Animal Life	None
S8	10 Mar 2015	Floatables	None
S8	10 Mar 2015	Water Color	Green
S8	10 Mar 2015	Current Direction	N
S8	10 Mar 2015	Water Temp (C)	15.4
S8	10 Mar 2015	Wave Height Low (ft)	2
S8	10 Mar 2015	High Tide (ft)	3.3
S8	10 Mar 2015	High Tide Time	1227
S8	10 Mar 2015	Low Tide (ft)	0.9
S8	10 Mar 2015	Low Tide Time	639
S8	10 Mar 2015	Comments	Water clear

Station	Date	Parameter	Value
S8	17 Mar 2015	Arrive Time	755
S8	17 Mar 2015	Weather	Overcast
S8	17 Mar 2015	Wind Speed (kts)	1.5
S8	17 Mar 2015	Wind Dir	S
S8	17 Mar 2015	Animal Life	5 Shorebirds
S8	17 Mar 2015	Floatables	None
S8	17 Mar 2015	Water Color	Green
S8	17 Mar 2015	Current Direction	N
S8	17 Mar 2015	Water Temp (C)	14.8
S8	17 Mar 2015	Wave Height Low (ft)	2
S8	17 Mar 2015	High Tide (ft)	5.5
S8	17 Mar 2015	High Tide Time	722
S8	17 Mar 2015	Low Tide (ft)	-0.9
S8	17 Mar 2015	Low Tide Time	1410
S8	17 Mar 2015	Comments	Kelp; Seagrass; Water clear
S8	24 Mar 2015	Arrive Time	814
S8	24 Mar 2015	Weather	Sunny
S8	24 Mar 2015	Wind Speed (kts)	4.2
S8	24 Mar 2015	Wind Dir	SE
S8	24 Mar 2015	Animal Life	None
S8	24 Mar 2015	Floatables	None
S8	24 Mar 2015	Water Color	Green
S8	24 Mar 2015	Current Direction	N
S8	24 Mar 2015	Water Temp (C)	18.7
S8	24 Mar 2015	Wave Height Low (ft)	3
S8	24 Mar 2015	High Tide (ft)	3.5
S8	24 Mar 2015	High Tide Time	1319
S8	24 Mar 2015	Low Tide (ft)	-0.1
S8	24 Mar 2015	Low Tide Time	709
S8	24 Mar 2015	Comments	2 Fishermen; Water clear
S9	03 Mar 2015	Arrive Time	758
S9	03 Mar 2015	Weather	Sunny
S9	03 Mar 2015	Wind Speed (kts)	0.1
S9	03 Mar 2015	Wind Dir	W
S9	03 Mar 2015	Animal Life	None
S9	03 Mar 2015	Floatables	None
S9	03 Mar 2015	Water Color	Brown
S9	03 Mar 2015	Current Direction	N
S9	03 Mar 2015	Water Temp (C)	16.3
S9	03 Mar 2015	Wave Height Low (ft)	1
S9	03 Mar 2015	High Tide (ft)	5.2
S9	03 Mar 2015	High Tide Time	732
S9	03 Mar 2015	Low Tide (ft)	1.1
S9	03 Mar 2015	Low Tide Time	137
S9	03 Mar 2015	Comments	Kelp; 2 Persons; Water turbid

Station	Date	Parameter	Value
S9	05 Mar 2015	Arrive Time	808
S9	05 Mar 2015	Weather	Sunny
S9	05 Mar 2015	Wind Speed (kts)	0.1
S9	05 Mar 2015	Wind Dir	E
S9	05 Mar 2015	Animal Life	None
S9	05 Mar 2015	Floatables	None
S9	05 Mar 2015	Water Color	Green
S9	05 Mar 2015	Current Direction	N
S9	05 Mar 2015	Water Temp (C)	16.4
S9	05 Mar 2015	Wave Height Low (ft)	2
S9	05 Mar 2015	High Tide (ft)	5.1
S9	05 Mar 2015	High Tide Time	834
S9	05 Mar 2015	Low Tide (ft)	0.7
S9	05 Mar 2015	Low Tide Time	239
S9	05 Mar 2015	Comments	Kelp; Seagrass; 1 Person; 8 Surfers; Water clear
S9	10 Mar 2015	Arrive Time	829
S9	10 Mar 2015	Weather	Sunny
S9	10 Mar 2015	Wind Speed (kts)	1.5
S9	10 Mar 2015	Wind Dir	NW
S9	10 Mar 2015	Animal Life	None
S9	10 Mar 2015	Floatables	None
S9	10 Mar 2015	Water Color	Green
S9	10 Mar 2015	Current Direction	N
S9	10 Mar 2015	Water Temp (C)	15.8
S9	10 Mar 2015	Wave Height Low (ft)	1
S9	10 Mar 2015	High Tide (ft)	3.3
S9	10 Mar 2015	High Tide Time	1227
S9	10 Mar 2015	Low Tide (ft)	0.9
S9	10 Mar 2015	Low Tide Time	639
S9	10 Mar 2015	Comments	1 Surfer; Water clear
S9	17 Mar 2015	Arrive Time	737
S9	17 Mar 2015	Weather	Overcast
S9	17 Mar 2015	Wind Speed (kts)	1.5
S9	17 Mar 2015	Wind Dir	S
S9	17 Mar 2015	Animal Life	None
S9	17 Mar 2015	Floatables	None
S9	17 Mar 2015	Water Color	Green
S9	17 Mar 2015	Current Direction	N
S9	17 Mar 2015	Water Temp (C)	14.6
S9	17 Mar 2015	Wave Height Low (ft)	2
S9	17 Mar 2015	High Tide (ft)	5.5
S9	17 Mar 2015	High Tide Time	722
S9	17 Mar 2015	Low Tide (ft)	1.1

Station	Date	Parameter	Value
S9	17 Mar 2015	Low Tide Time	121
S9	17 Mar 2015	Comments	Kelp; Seagrass; 1 Fisherman; Water clear
S9	24 Mar 2015	Arrive Time	748
S9	24 Mar 2015	Weather	Sunny
S9	24 Mar 2015	Wind Speed (kts)	1.1
S9	24 Mar 2015	Wind Dir	S
S9	24 Mar 2015	Animal Life	None
S9	24 Mar 2015	Floatables	None
S9	24 Mar 2015	Water Color	Green
S9	24 Mar 2015	Current Direction	N
S9	24 Mar 2015	Water Temp (C)	18.7
S9	24 Mar 2015	Wave Height Low (ft)	3
S9	24 Mar 2015	High Tide (ft)	3.5
S9	24 Mar 2015	High Tide Time	1319
S9	24 Mar 2015	Low Tide (ft)	-0.1
S9	24 Mar 2015	Low Tide Time	709
S9	24 Mar 2015	Comments	7 Surfers; Water clear
S10	03 Mar 2015	Arrive Time	1128
S10	03 Mar 2015	Weather	Sunny
S10	03 Mar 2015	Wind Speed (kts)	3.2
S10	03 Mar 2015	Wind Dir	W
S10	03 Mar 2015	Animal Life	1 Shorebird
S10	03 Mar 2015	Floatables	None
S10	03 Mar 2015	Water Color	Green
S10	03 Mar 2015	Current Direction	N
S10	03 Mar 2015	Water Temp (C)	16.2
S10	03 Mar 2015	Wave Height Low (ft)	3
S10	03 Mar 2015	High Tide (ft)	5.2
S10	03 Mar 2015	High Tide Time	732
S10	03 Mar 2015	Low Tide (ft)	-0.4
S10	03 Mar 2015	Low Tide Time	1417
S10	03 Mar 2015	Comments	Water turbid; Flow at dairy mart rd
S10	10 Mar 2015	Arrive Time	1127
S10	10 Mar 2015	Weather	Sunny
S10	10 Mar 2015	Wind Speed (kts)	5.6
S10	10 Mar 2015	Wind Dir	NW
S10	10 Mar 2015	Animal Life	1 Shorebird
S10	10 Mar 2015	Floatables	None
S10	10 Mar 2015	Water Color	Green
S10	10 Mar 2015	Current Direction	NW
S10	10 Mar 2015	Water Temp (C)	15.4
S10	10 Mar 2015	Wave Height Low (ft)	3
S10	10 Mar 2015	High Tide (ft)	3.3
S10	10 Mar 2015	High Tide Time	1227

Station	Date	Parameter	Value
S10	10 Mar 2015	Low Tide (ft)	0.9
S10	10 Mar 2015	Low Tide Time	639
S10	10 Mar 2015	Comments	1 Person; 2 Swimmers; Water turbid; Dead seal and bird; Dairy mart flowing
S10	17 Mar 2015	Arrive Time	1047
S10	17 Mar 2015	Weather	Sunny
S10	17 Mar 2015	Wind Speed (kts)	3.2
S10	17 Mar 2015	Wind Dir	SW
S10	17 Mar 2015	Animal Life	None
S10	17 Mar 2015	Floatables	None
S10	17 Mar 2015	Water Color	Green
S10	17 Mar 2015	Current Direction	N
S10	17 Mar 2015	Water Temp (C)	17.6
S10	17 Mar 2015	Wave Height Low (ft)	3
S10	17 Mar 2015	High Tide (ft)	5.5
S10	17 Mar 2015	High Tide Time	722
S10	17 Mar 2015	Low Tide (ft)	-0.9
S10	17 Mar 2015	Low Tide Time	1410
S10	17 Mar 2015	Comments	Water clear; 1113 Dairy mart no flow
S10	24 Mar 2015	Arrive Time	1124
S10	24 Mar 2015	Weather	Sunny
S10	24 Mar 2015	Wind Speed (kts)	4.6
S10	24 Mar 2015	Wind Dir	W
S10	24 Mar 2015	Animal Life	None
S10	24 Mar 2015	Floatables	None
S10	24 Mar 2015	Water Color	Green
S10	24 Mar 2015	Current Direction	N
S10	24 Mar 2015	Water Temp (C)	18.7
S10	24 Mar 2015	Wave Height Low (ft)	3
S10	24 Mar 2015	High Tide (ft)	3.5
S10	24 Mar 2015	High Tide Time	1319
S10	24 Mar 2015	Low Tide (ft)	-0.1
S10	24 Mar 2015	Low Tide Time	709
S10	24 Mar 2015	Comments	1 Person; Water clear; No flow at dairy mart rd
S11	03 Mar 2015	Arrive Time	944
S11	03 Mar 2015	Weather	Sunny
S11	03 Mar 2015	Wind Speed (kts)	3.4
S11	03 Mar 2015	Wind Dir	E
S11	03 Mar 2015	Animal Life	None
S11	03 Mar 2015	Floatables	None
S11	03 Mar 2015	Water Color	Brown
S11	03 Mar 2015	Current Direction	N
S11	03 Mar 2015	Water Temp (C)	16.4

Station	Date	Parameter	Value
S11	03 Mar 2015	Wave Height Low (ft)	3
S11	03 Mar 2015	High Tide (ft)	5.2
S11	03 Mar 2015	High Tide Time	732
S11	03 Mar 2015	Low Tide (ft)	-0.4
S11	03 Mar 2015	Low Tide Time	1417
S11	03 Mar 2015	Comments	Water turbid
S11	05 Mar 2015	Arrive Time	918
S11	05 Mar 2015	Weather	Sunny
S11	05 Mar 2015	Wind Speed (kts)	7.5
S11	05 Mar 2015	Wind Dir	W
S11	05 Mar 2015	Animal Life	None
S11	05 Mar 2015	Floatables	None
S11	05 Mar 2015	Water Color	Green
S11	05 Mar 2015	Current Direction	N
S11	05 Mar 2015	Water Temp (C)	16.4
S11	05 Mar 2015	Wave Height Low (ft)	3
S11	05 Mar 2015	High Tide (ft)	5.1
S11	05 Mar 2015	High Tide Time	834
S11	05 Mar 2015	Low Tide (ft)	-0.2
S11	05 Mar 2015	Low Tide Time	1505
S11	05 Mar 2015	Comments	Water clear
S11	10 Mar 2015	Arrive Time	1000
S11	10 Mar 2015	Weather	Sunny
S11	10 Mar 2015	Wind Speed (kts)	5.4
S11	10 Mar 2015	Wind Dir	NW
S11	10 Mar 2015	Animal Life	None
S11	10 Mar 2015	Floatables	None
S11	10 Mar 2015	Water Color	Green
S11	10 Mar 2015	Current Direction	N
S11	10 Mar 2015	Water Temp (C)	17.2
S11	10 Mar 2015	Wave Height Low (ft)	3
S11	10 Mar 2015	High Tide (ft)	3.3
S11	10 Mar 2015	High Tide Time	1227
S11	10 Mar 2015	Low Tide (ft)	0.9
S11	10 Mar 2015	Low Tide Time	639
S11	10 Mar 2015	Comments	Water turbid
S11	17 Mar 2015	Arrive Time	926
S11	17 Mar 2015	Weather	Sunny
S11	17 Mar 2015	Wind Speed (kts)	1.2
S11	17 Mar 2015	Wind Dir	S
S11	17 Mar 2015	Animal Life	None
S11	17 Mar 2015	Floatables	None
S11	17 Mar 2015	Water Color	Green
S11	17 Mar 2015	Current Direction	N

Station	Date	Parameter	Value
S11	17 Mar 2015	Water Temp (C)	17.8
S11	17 Mar 2015	Wave Height Low (ft)	3
S11	17 Mar 2015	High Tide (ft)	5.5
S11	17 Mar 2015	High Tide Time	722
S11	17 Mar 2015	Low Tide (ft)	-0.9
S11	17 Mar 2015	Low Tide Time	1410
S11	17 Mar 2015	Comments	Water clear
S11	24 Mar 2015	Arrive Time	956
S11	24 Mar 2015	Weather	Sunny
S11	24 Mar 2015	Wind Speed (kts)	6.4
S11	24 Mar 2015	Wind Dir	W
S11	24 Mar 2015	Animal Life	None
S11	24 Mar 2015	Floatables	None
S11	24 Mar 2015	Water Color	Green
S11	24 Mar 2015	Current Direction	N
S11	24 Mar 2015	Water Temp (C)	18.7
S11	24 Mar 2015	Wave Height Low (ft)	5
S11	24 Mar 2015	High Tide (ft)	3.5
S11	24 Mar 2015	High Tide Time	1319
S11	24 Mar 2015	Low Tide (ft)	-0.1
S11	24 Mar 2015	Low Tide Time	709
S11	24 Mar 2015	Comments	Water clear
S12	03 Mar 2015	Arrive Time	1004
S12	03 Mar 2015	Weather	Sunny
S12	03 Mar 2015	Wind Speed (kts)	1.2
S12	03 Mar 2015	Wind Dir	E
S12	03 Mar 2015	Animal Life	1 Shorebird
S12	03 Mar 2015	Floatables	None
S12	03 Mar 2015	Water Color	Brown
S12	03 Mar 2015	Current Direction	N
S12	03 Mar 2015	Water Temp (C)	16.4
S12	03 Mar 2015	Wave Height Low (ft)	3
S12	03 Mar 2015	High Tide (ft)	5.2
S12	03 Mar 2015	High Tide Time	732
S12	03 Mar 2015	Low Tide (ft)	-0.4
S12	03 Mar 2015	Low Tide Time	1417
S12	03 Mar 2015	Comments	1 Jogger; Water turbid
S12	05 Mar 2015	Arrive Time	932
S12	05 Mar 2015	Weather	Sunny
S12	05 Mar 2015	Wind Speed (kts)	3.3
S12	05 Mar 2015	Wind Dir	W
S12	05 Mar 2015	Animal Life	None
S12	05 Mar 2015	Floatables	None
S12	05 Mar 2015	Water Color	Green

Station	Date	Parameter	Value
S12	05 Mar 2015	Current Direction	N
S12	05 Mar 2015	Water Temp (C)	16.4
S12	05 Mar 2015	Wave Height Low (ft)	3
S12	05 Mar 2015	High Tide (ft)	5.1
S12	05 Mar 2015	High Tide Time	834
S12	05 Mar 2015	Low Tide (ft)	-0.2
S12	05 Mar 2015	Low Tide Time	1505
S12	05 Mar 2015	Comments	Water turbid
S12	07 Mar 2015	Arrive Time	1012
S12	07 Mar 2015	Weather	Sunny
S12	07 Mar 2015	Wind Speed (kts)	1.7
S12	07 Mar 2015	Wind Dir	W
S12	07 Mar 2015	Animal Life	1 Dog
S12	07 Mar 2015	Floatables	None
S12	07 Mar 2015	Water Color	Green
S12	07 Mar 2015	Current Direction	N
S12	07 Mar 2015	Water Temp (C)	17
S12	07 Mar 2015	Wave Height Low (ft)	2
S12	07 Mar 2015	High Tide (ft)	4.6
S12	07 Mar 2015	High Tide Time	936
S12	07 Mar 2015	Low Tide (ft)	0.3
S12	07 Mar 2015	Low Tide Time	1553
S12	07 Mar 2015	Comments	1 Person; 2 Surfers; Water clear
S12	10 Mar 2015	Arrive Time	1023
S12	10 Mar 2015	Weather	Sunny
S12	10 Mar 2015	Wind Speed (kts)	4
S12	10 Mar 2015	Wind Dir	NW
S12	10 Mar 2015	Animal Life	1 Dog
S12	10 Mar 2015	Floatables	None
S12	10 Mar 2015	Water Color	Green
S12	10 Mar 2015	Current Direction	N
S12	10 Mar 2015	Water Temp (C)	15.6
S12	10 Mar 2015	Wave Height Low (ft)	3
S12	10 Mar 2015	High Tide (ft)	3.3
S12	10 Mar 2015	High Tide Time	1227
S12	10 Mar 2015	Low Tide (ft)	0.9
S12	10 Mar 2015	Low Tide Time	639
S12	10 Mar 2015	Comments	Kelp; 1 Person; Water clear
S12	17 Mar 2015	Arrive Time	941
S12	17 Mar 2015	Weather	Sunny
S12	17 Mar 2015	Wind Speed (kts)	0.8
S12	17 Mar 2015	Wind Dir	S
S12	17 Mar 2015	Animal Life	None
S12	17 Mar 2015	Floatables	None

Station	Date	Parameter	Value
S12	17 Mar 2015	Water Color	Green
S12	17 Mar 2015	Current Direction	N
S12	17 Mar 2015	Water Temp (C)	17.8
S12	17 Mar 2015	Wave Height Low (ft)	3
S12	17 Mar 2015	High Tide (ft)	5.5
S12	17 Mar 2015	High Tide Time	722
S12	17 Mar 2015	Low Tide (ft)	-0.9
S12	17 Mar 2015	Low Tide Time	1410
S12	17 Mar 2015	Comments	5 Persons; Water clear
S12	24 Mar 2015	Arrive Time	1016
S12	24 Mar 2015	Weather	Sunny
S12	24 Mar 2015	Wind Speed (kts)	3.3
S12	24 Mar 2015	Wind Dir	W
S12	24 Mar 2015	Animal Life	None
S12	24 Mar 2015	Floatables	None
S12	24 Mar 2015	Water Color	Green
S12	24 Mar 2015	Current Direction	N
S12	24 Mar 2015	Water Temp (C)	18.6
S12	24 Mar 2015	Wave Height Low (ft)	3
S12	24 Mar 2015	High Tide (ft)	3.5
S12	24 Mar 2015	High Tide Time	1319
S12	24 Mar 2015	Low Tide (ft)	-0.1
S12	24 Mar 2015	Low Tide Time	709
S12	24 Mar 2015	Comments	4 Surfers; 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 Mar 2015	40	31	8	2	3	3	37
02 Mar 2015	40	31	8	2	3	3	37
03 Mar 2015	40	31	8	2	3	3	37
04 Mar 2015	40	31	8	2	3	3	37
05 Mar 2015	40	31	8	2	3	3	37
06 Mar 2015	14*	10	2	2*	3	2*	19
07 Mar 2015	12	31	6	4	10	3	31
08 Mar 2015	12	53	7	4	10	3	25
09 Mar 2015	12	69	7	4	10	3	25
10 Mar 2015	12	69	7	4	10	3	25
11 Mar 2015	10	53	7	4	8	3	34
12 Mar 2015	10	53	7	4	8	3	34
13 Mar 2015	10	53	7	4	8	3	34
14 Mar 2015	9	63	8	4	8	3	41
15 Mar 2015	9	63	8	4	8	3	41
16 Mar 2015	9	63	8	4	8	3	41
17 Mar 2015	7	39	7	4	6	3	27
18 Mar 2015	7	39	7	4	6	3	27
19 Mar 2015	7	39	7	4	6	3	27
20 Mar 2015	9	63	8	4	8	3	46
21 Mar 2015	9	63	8	4	8	3	46
22 Mar 2015	9	63	8	4	8	3	46
23 Mar 2015	7	39	7	4	6	3	27
24 Mar 2015	9	63	8	4	8	3	46
25 Mar 2015	9	63	8	4	8	3	46
26 Mar 2015	10	39	7	4	6	3	38
27 Mar 2015	10	39	7	4	6	3	38
28 Mar 2015	10	39	7	4	6	3	38
29 Mar 2015	5	24	8	4	7	3	23
30 Mar 2015	5	24	8	4	7	3	23
31 Mar 2015	5	24	8	4	7	3	23

* 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 Mar 2015	8	9	5	2	2	2	7
02 Mar 2015	8	9	5	2	2	2	7
03 Mar 2015	8	9	5	2	2	2	7
04 Mar 2015	8	9	5	2	2	2	7
05 Mar 2015	8	9	5	2	2	2	7
06 Mar 2015	4*	4	2	2*	2	2*	4
07 Mar 2015	3	9	4	3	5	2	6
08 Mar 2015	3	12	4	3	5	2	8
09 Mar 2015	3	14	4	3	5	2	8
10 Mar 2015	3	14	4	3	5	2	8
11 Mar 2015	3	12	4	3	4	2	8
12 Mar 2015	3	12	4	3	4	2	8
13 Mar 2015	3	12	4	3	4	2	8
14 Mar 2015	3	16	4	3	5	2	11
15 Mar 2015	3	16	4	3	5	2	11
16 Mar 2015	3	16	4	3	5	2	11
17 Mar 2015	3	12	4	3	4	2	9
18 Mar 2015	3	12	4	3	4	2	9
19 Mar 2015	3	12	4	3	4	2	9
20 Mar 2015	3	16	4	3	5	2	12
21 Mar 2015	3	16	4	3	5	2	12
22 Mar 2015	3	16	4	3	5	2	12
23 Mar 2015	3	12	4	3	4	2	9
24 Mar 2015	3	16	4	3	5	2	12
25 Mar 2015	3	16	4	3	5	2	12
26 Mar 2015	3	12	4	3	4	2	9
27 Mar 2015	3	12	4	3	4	2	9
28 Mar 2015	3	12	4	3	4	2	9
29 Mar 2015	2	9	4	3	4	2	6
30 Mar 2015	2	9	4	3	4	2	6
31 Mar 2015	2	9	4	3	4	2	6

* 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 Mar 2015	4	4	5	2	2	2	4
02 Mar 2015	4	4	5	2	2	2	4
03 Mar 2015	4	4	5	2	2	2	4
04 Mar 2015	4	4	5	2	2	2	4
05 Mar 2015	4	4	5	2	2	2	4
06 Mar 2015	2	2	2	2*	2	2*	2*
07 Mar 2015	2	3	2	2	3	2	3
08 Mar 2015	2	4	2	2	3	2	3
09 Mar 2015	2	4	2	2	3	2	3
10 Mar 2015	2	4	2	2	3	2	3
11 Mar 2015	2	4	2	2	3	2	4
12 Mar 2015	2	4	2	2	3	2	4
13 Mar 2015	2	4	2	2	3	2	4
14 Mar 2015	2	4	2	2	3	2	5
15 Mar 2015	2	4	2	2	3	2	5
16 Mar 2015	2	4	2	2	3	2	5
17 Mar 2015	2	4	2	2	3	2	5
18 Mar 2015	2	4	2	2	3	2	5
19 Mar 2015	2	4	2	2	3	2	5
20 Mar 2015	2	4	2	2	3	2	6
21 Mar 2015	2	4	2	2	3	2	6
22 Mar 2015	2	4	2	2	3	2	6
23 Mar 2015	2	4	2	2	3	2	6
24 Mar 2015	2	4	2	2	3	2	7
25 Mar 2015	2	4	2	2	3	2	7
26 Mar 2015	2	4	2	2	3	2	8
27 Mar 2015	2	4	2	2	3	2	8
28 Mar 2015	2	4	2	2	3	2	8
29 Mar 2015	2	4	2	2	3	2	9
30 Mar 2015	2	4	2	2	3	2	9
31 Mar 2015	2	4	2	2	3	2	9

* 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.

Date	I19	I24	I25	I26	I32	I39	I40
07 Mar 2015	IC	E	IC	IC	IC	IC	IC
09 Mar 2015	ns	IC	IC	ns	ns	ns	ns
11 Mar 2015	IC	IC	IC	IC	IC	IC	IC
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC
23 Mar 2015	IC	IC	IC	IC	IC	IC	IC
26 Mar 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.

Date	I19	I24	I25	I26	I32	I39	I40
07 Mar 2015	IC	E	IC	IC	IC	IC	IC
09 Mar 2015	ns	IC	IC	ns	ns	ns	ns
11 Mar 2015	IC	IC	IC	IC	IC	IC	IC
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC
23 Mar 2015	IC	IC	IC	IC	IC	IC	IC
26 Mar 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.

Date	I19	I24	I25	I26	I32	I39	I40
07 Mar 2015	IC	IC	IC	IC	IC	IC	IC
11 Mar 2015	IC	IC	IC	IC	IC	IC	IC
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC
23 Mar 2015	IC	IC	IC	IC	IC	IC	IC
26 Mar 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.

Date	I19	I24	I25	I26	I32	I39	I40
07 Mar 2015	IC	IC	E	IC	IC	IC	IC
09 Mar 2015	ns	IC	IC	ns	ns	ns	ns
11 Mar 2015	IC	IC	IC	IC	IC	IC	IC
17 Mar 2015	IC	IC	IC	IC	IC	IC	IC
23 Mar 2015	IC	IC	IC	IC	IC	IC	IC
26 Mar 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	07 Mar 2015	1129	2	20e	<2	<2	0.10	17.0	72.58	7.8	33.23	8.2	ns	ns
I19	07 Mar 2015	1129	6	<2	<2	<2	1.00	16.1	70.69	7.5	33.25	8.2	ns	ns
I19	07 Mar 2015	1129	11	<2	<2	<2	1.00	15.4	62.05	7.1	33.26	8.2	ns	ns
I19	11 Mar 2015	1106	2	<2	<2	<2	1.00	16.4	70.37	7.7	33.26	8.2	ns	ns
I19	11 Mar 2015	1106	6	2e	<2	<2	1.00	14.7	70.44	7.0	33.26	8.1	ns	ns
I19	11 Mar 2015	1106	11	8e	<2	<2	0.25	14.7	63.68	6.8	33.27	8.1	ns	ns
I19	17 Mar 2015	1117	2	2e	<2	<2	1.00	17.2	91.23	7.8	33.32	8.2	ns	ns
I19	17 Mar 2015	1117	6	<2	<2	<2	1.00	16.8	91.80	8.0	33.33	8.2	ns	ns
I19	17 Mar 2015	1117	11	2e	<2	<2	1.00	15.3	82.48	7.9	33.31	8.2	ns	ns
I19	23 Mar 2015	1125	2	<2	<2	<2	1.00	17.5	66.09	7.8	33.31	8.2	ns	ns
I19	23 Mar 2015	1125	6	<2	<2	<2	1.00	15.6	60.91	7.8	33.26	8.2	ns	ns
I19	23 Mar 2015	1125	11	<2	<2	2e	1.00	15.2	55.31	8.0	33.26	8.2	ns	ns
I19	26 Mar 2015	1040	2	<20	<2	<2	0.10	15.5	58.16	7.7	33.29	8.2	ns	ns
I19	26 Mar 2015	1040	6	<20	<2	<2	0.10	13.6	51.35	7.1	33.27	8.1	ns	ns
I19	26 Mar 2015	1040	11	<20	<2	<2	0.10	13.4	41.07	6.8	33.28	8.1	ns	ns
I24	07 Mar 2015	1156	2	120e	30e	<2	0.25	16.8	69.82	8.0	33.16	8.2	ns	ns
I24	07 Mar 2015	1156	6	14000	880	86	0.06	16.4	71.83	7.7	33.23	8.2	ns	ns
I24	07 Mar 2015	1156	11	7600	600	32e	0.08	15.5	65.53	6.7	33.26	8.1	ns	ns
I24	09 Mar 2015	1053	6	260e	12e	ns	0.05	ns	ns	ns	ns	ns	ns	ns
I24	09 Mar 2015	1053	11	ns	72	ns	ns	ns	ns	ns	ns	ns	ns	ns
I24	11 Mar 2015	1133	2	<2	<2	<2	1.00	16.7	87.77	7.7	33.32	8.2	ns	ns
I24	11 Mar 2015	1133	6	12e	6e	8e	0.50	16.1	86.72	7.3	33.30	8.2	ns	ns
I24	11 Mar 2015	1133	11	20e	2e	<2	0.10	14.8	73.14	6.7	33.27	8.1	ns	ns
I24	17 Mar 2015	1143	2	<2	<2	<2	1.00	17.4	84.47	7.9	33.31	8.2	ns	ns
I24	17 Mar 2015	1143	6	<2	<2	<2	1.00	16.5	84.75	7.8	33.31	8.2	ns	ns
I24	17 Mar 2015	1143	11	<2	<2	2e	1.00	15.6	75.16	8.2	33.31	8.2	ns	ns
I24	23 Mar 2015	1150	2	<2	<2	<2	1.00	18.1	86.42	7.7	33.34	8.2	ns	ns
I24	23 Mar 2015	1150	6	<2	<2	<2	1.00	16.7	86.52	8.0	33.27	8.2	ns	ns
I24	23 Mar 2015	1150	11	2e	<2	<2	1.00	15.3	75.41	8.2	33.26	8.2	ns	ns
I24	26 Mar 2015	1105	2	2e	<2	2e	1.00	17.2	74.46	7.8	33.32	8.2	ns	ns
I24	26 Mar 2015	1105	6	<2	<2	<2	1.00	14.5	79.69	7.6	33.27	8.2	ns	ns
I24	26 Mar 2015	1105	11	2e	<2	2e	1.00	13.2	42.25	6.7	33.28	8.1	ns	ns
I25	07 Mar 2015	1207	2	360e	60e	2e	0.17	17.1	64.29	7.8	33.12	8.2	ns	ns
I25	07 Mar 2015	1207	6	2200e	240e	8e	0.11	16.4	63.34	7.8	33.25	8.2	ns	ns
I25	07 Mar 2015	1207	9	180e	24e	6e	0.13	15.8	74.62	7.2	33.26	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	09 Mar 2015	1108	6	12e	<2	ns	0.17	ns	ns	ns	ns	ns	ns	ns
I25	11 Mar 2015	1145	2	<2	<2	<2	1.00	16.6	88.69	7.8	33.32	8.2	ns	ns
I25	11 Mar 2015	1145	6	<2	<2	<2	1.00	16.3	88.10	7.8	33.32	8.2	ns	ns
I25	11 Mar 2015	1145	9	6e	<2	<2	0.33	15.3	87.93	8.0	33.30	8.2	ns	ns
I25	17 Mar 2015	1152	2	<2	<2	<2	1.00	17.2	86.06	8.0	33.33	8.2	ns	ns
I25	17 Mar 2015	1152	6	<2	<2	<2	1.00	16.5	82.45	7.9	33.33	8.2	ns	ns
I25	17 Mar 2015	1152	9	<2	<2	<2	1.00	15.6	77.55	8.2	33.32	8.2	ns	ns
I25	23 Mar 2015	1200	2	<2	<2	<2	1.00	18.0	87.45	7.8	33.33	8.2	ns	ns
I25	23 Mar 2015	1200	6	<2	<2	<2	1.00	16.5	88.03	8.0	33.28	8.2	ns	ns
I25	23 Mar 2015	1200	9	<2	<2	<2	1.00	16.2	88.01	8.2	33.29	8.2	ns	ns
I25	26 Mar 2015	1116	2	<2	<2	<2	1.00	17.3	74.89	7.8	33.34	8.2	ns	ns
I25	26 Mar 2015	1116	6	<2	<2	<2	1.00	15.2	76.73	8.0	33.30	8.2	ns	ns
I25	26 Mar 2015	1116	9	<2	<2	<2	1.00	13.8	78.41	7.7	33.29	8.1	ns	ns
I26	07 Mar 2015	1221	2	<2	2e	<2	1.00	16.5	74.22	7.9	33.27	8.2	ns	ns
I26	07 Mar 2015	1221	6	180e	24e	<2	0.13	16.1	71.26	7.5	33.27	8.2	ns	ns
I26	07 Mar 2015	1221	9	10e	<2	<2	0.20	16.0	79.38	7.3	33.27	8.2	ns	ns
I26	11 Mar 2015	1157	2	<2	<2	<2	1.00	16.9	88.42	7.8	33.32	8.2	ns	ns
I26	11 Mar 2015	1157	6	<2	<2	<2	1.00	15.8	89.92	7.9	33.31	8.2	ns	ns
I26	11 Mar 2015	1157	9	2e	<2	<2	1.00	15.7	87.70	7.9	33.31	8.2	ns	ns
I26	17 Mar 2015	1204	2	<2	<2	<2	1.00	17.2	84.50	7.9	33.34	8.2	ns	ns
I26	17 Mar 2015	1204	6	<2	<2	<2	1.00	16.6	86.72	8.0	33.31	8.2	ns	ns
I26	17 Mar 2015	1204	9	<2	<2	<2	1.00	15.3	88.57	8.3	33.32	8.2	ns	ns
I26	23 Mar 2015	1213	2	<2	<2	<2	1.00	18.0	87.54	7.7	33.33	8.2	ns	ns
I26	23 Mar 2015	1213	6	<2	<2	<2	1.00	16.2	89.72	8.2	33.27	8.2	ns	ns
I26	23 Mar 2015	1213	9	<2	<2	<2	1.00	15.9	87.39	8.3	33.28	8.2	ns	ns
I26	26 Mar 2015	1132	2	<2	<2	<2	1.00	16.3	68.86	7.9	33.30	8.2	ns	ns
I26	26 Mar 2015	1132	6	<2	<2	<2	1.00	14.4	76.74	7.8	33.28	8.2	ns	ns
I26	26 Mar 2015	1132	9	<2	<2	2e	1.00	14.1	75.66	8.0	33.28	8.2	ns	ns
I32	07 Mar 2015	1236	2	<2	<2	<2	1.00	16.9	72.03	7.7	33.24	8.2	ns	ns
I32	07 Mar 2015	1236	6	960	86	10e	0.09	16.3	66.80	7.7	33.27	8.2	ns	ns
I32	07 Mar 2015	1236	9	2000e	160e	42	0.08	16.1	52.57	7.5	33.24	8.2	ns	ns
I32	11 Mar 2015	1211	2	<2	<2	<2	1.00	16.7	83.11	7.6	33.30	8.2	ns	ns
I32	11 Mar 2015	1211	6	<2	<2	<2	1.00	15.7	85.36	7.9	33.29	8.2	ns	ns
I32	11 Mar 2015	1211	9	2e	<2	<2	1.00	15.4	82.14	7.8	33.30	8.2	ns	ns
I32	17 Mar 2015	1220	2	<2	<2	<2	1.00	17.1	85.86	7.8	33.35	8.2	ns	ns
I32	17 Mar 2015	1220	6	<2	<2	<2	1.00	16.9	84.26	7.8	33.34	8.2	ns	ns
I32	17 Mar 2015	1220	9	<2	<2	<2	1.00	16.8	83.06	8.0	33.33	8.2	ns	ns
I32	23 Mar 2015	1229	2	<2	<2	<2	1.00	17.3	79.15	7.8	33.32	8.2	ns	ns
I32	23 Mar 2015	1229	6	<2	<2	<2	1.00	16.9	70.68	7.9	33.30	8.2	ns	ns
I32	23 Mar 2015	1229	9	2e	<2	<2	1.00	16.0	70.17	8.0	33.29	8.2	ns	ns
I32	26 Mar 2015	1148	2	<2	<2	<2	1.00	15.7	59.45	7.6	33.30	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I32	26 Mar 2015	1148	6	<2	<2	2e	1.00	13.5	56.29	7.3	33.29	8.1	ns	ns
I32	26 Mar 2015	1148	9	<2	<2	2e	1.00	13.3	55.15	7.0	33.29	8.1	ns	ns
I39	07 Mar 2015	1056	2	<2	<2	<2	1.00	16.7	82.68	8.3	33.27	8.3	ns	ns
I39	07 Mar 2015	1056	12	4e	<2	<2	0.50	15.5	81.55	7.7	33.26	8.2	ns	ns
I39	07 Mar 2015	1056	18	<2	<2	<2	1.00	14.8	86.11	7.4	33.26	8.1	ns	ns
I39	11 Mar 2015	1043	2	2e	<2	<2	1.00	16.6	89.82	7.8	33.36	8.2	ns	ns
I39	11 Mar 2015	1043	12	12e	<2	<2	0.17	15.1	89.63	7.7	33.31	8.2	ns	ns
I39	11 Mar 2015	1043	18	4e	<2	<2	0.50	14.7	88.78	7.6	33.31	8.1	ns	ns
I39	17 Mar 2015	1053	2	<2	<2	<2	1.00	17.4	87.74	7.9	33.35	8.2	ns	ns
I39	17 Mar 2015	1053	12	<2	<2	<2	1.00	15.1	91.09	8.1	33.30	8.2	ns	ns
I39	17 Mar 2015	1053	18	<2	4e	<2	2.00	14.2	86.65	7.8	33.31	8.1	ns	ns
I39	23 Mar 2015	1100	2	<2	<2	<2	1.00	18.0	87.15	8.1	33.33	8.3	ns	ns
I39	23 Mar 2015	1100	12	<2	<2	<2	1.00	17.3	89.17	7.9	33.31	8.2	ns	ns
I39	23 Mar 2015	1100	18	<2	<2	<2	1.00	15.2	89.89	8.0	33.27	8.2	ns	ns
I39	26 Mar 2015	1019	2	<2	<2	10e	1.00	17.6	85.78	7.9	33.34	8.2	ns	ns
I39	26 Mar 2015	1019	12	<2	<2	<2	1.00	15.6	85.46	7.8	33.27	8.2	ns	ns
I39	26 Mar 2015	1019	18	4e	<2	<2	0.50	12.3	78.70	6.5	33.32	8.0	ns	ns
I40	07 Mar 2015	1144	2	2e	2e	2e	1.00	16.9	75.56	7.8	33.27	8.2	ns	ns
I40	07 Mar 2015	1144	6	600	72	6e	0.12	16.2	71.97	8.0	33.27	8.2	ns	ns
I40	07 Mar 2015	1144	9	620	80	8e	0.13	15.9	61.07	7.7	33.25	8.2	ns	ns
I40	11 Mar 2015	1120	2	400e	24e	4e	0.06	16.6	60.15	7.7	33.23	8.2	ns	ns
I40	11 Mar 2015	1120	6	18e	2e	4e	0.11	15.1	68.44	6.6	33.26	8.1	ns	ns
I40	11 Mar 2015	1120	9	56	12e	66	0.21	14.8	53.49	6.2	33.26	8.1	ns	ns
I40	17 Mar 2015	1132	2	<2	<2	<2	1.00	17.4	90.12	7.7	33.35	8.2	ns	ns
I40	17 Mar 2015	1132	6	2e	<2	2e	1.00	16.7	85.77	7.7	33.34	8.2	ns	ns
I40	17 Mar 2015	1132	9	6e	4e	14e	0.67	15.6	59.63	7.6	33.34	8.2	ns	ns
I40	23 Mar 2015	1142	2	<2	<2	<2	1.00	17.7	69.61	7.7	33.32	8.2	ns	ns
I40	23 Mar 2015	1142	6	<2	<2	<2	1.00	15.8	69.12	8.1	33.26	8.2	ns	ns
I40	23 Mar 2015	1142	9	<2	<2	18e	1.00	15.4	65.99	7.9	33.26	8.2	ns	ns
I40	26 Mar 2015	1055	2	<2	<2	<2	1.00	17.3	73.35	7.8	33.32	8.2	ns	ns
I40	26 Mar 2015	1055	6	<20	<2	12e	0.10	14.2	73.72	7.7	33.26	8.2	ns	ns
I40	26 Mar 2015	1055	9	<20	<2	24e	0.10	13.6	63.20	7.0	33.27	8.1	ns	ns

ns = not sampled

Comments

Station	Date	Depth	Parameter	Comments
I24	09 Mar 2015	6		Resample
I24	09 Mar 2015	11		Resample
I25	09 Mar 2015	6		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	07 Mar 2015	Depth (m)	11
I19	07 Mar 2015	Arrive Time	1129
I19	07 Mar 2015	Depart Time	1136
I19	07 Mar 2015	Air Temp (C)	19
I19	07 Mar 2015	Weather	Partly Cloudy
I19	07 Mar 2015	Visibility (mi)	12
I19	07 Mar 2015	Wind Speed (kts)	1
I19	07 Mar 2015	Wind Dir	SE
I19	07 Mar 2015	Water Color	Green
I19	07 Mar 2015	Wave Ht Low (ft)	2
I19	07 Mar 2015	Wave Period (sec)	9
I19	07 Mar 2015	Sea State	Calm
I19	07 Mar 2015	High Tide (ft)	4.63
I19	07 Mar 2015	High Tide Time	936
I19	07 Mar 2015	Low Tide (ft)	0.28
I19	07 Mar 2015	Low Tide Time	1553
I19	07 Mar 2015	Comments	Kelp
I19	11 Mar 2015	Depth (m)	11
I19	11 Mar 2015	Arrive Time	1106
I19	11 Mar 2015	Depart Time	1113
I19	11 Mar 2015	Air Temp (C)	18
I19	11 Mar 2015	Weather	Partly Cloudy
I19	11 Mar 2015	Visibility (mi)	7
I19	11 Mar 2015	Wind Speed (kts)	1
I19	11 Mar 2015	Wind Dir	SE
I19	11 Mar 2015	Water Color	Green
I19	11 Mar 2015	Wave Ht Low (ft)	2
I19	11 Mar 2015	Wave Period (sec)	13
I19	11 Mar 2015	Sea State	Wind ripples
I19	11 Mar 2015	High Tide (ft)	2.87
I19	11 Mar 2015	High Tide Time	1329
I19	11 Mar 2015	Low Tide (ft)	0.99
I19	11 Mar 2015	Low Tide Time	739
I19	11 Mar 2015	Comments	Lots of Birds on station
I19	17 Mar 2015	Depth (m)	11
I19	17 Mar 2015	Arrive Time	1117
I19	17 Mar 2015	Depart Time	1123
I19	17 Mar 2015	Air Temp (C)	18
I19	17 Mar 2015	Weather	Cloudy
I19	17 Mar 2015	Visibility (mi)	10

Station	Date	Parameter	Value
I19	17 Mar 2015	Wind Speed (kts)	8
I19	17 Mar 2015	Wind Dir	NE
I19	17 Mar 2015	Water Color	Greenish-Brown
I19	17 Mar 2015	Wave Ht Low (ft)	3
I19	17 Mar 2015	Wave Period (sec)	11
I19	17 Mar 2015	Sea State	Calm
I19	17 Mar 2015	High Tide (ft)	5.51
I19	17 Mar 2015	High Tide Time	722
I19	17 Mar 2015	Low Tide (ft)	-0.88
I19	17 Mar 2015	Low Tide Time	1410
I19	17 Mar 2015	Comments	
I19	23 Mar 2015	Depth (m)	12
I19	23 Mar 2015	Arrive Time	1125
I19	23 Mar 2015	Depart Time	1137
I19	23 Mar 2015	Air Temp (C)	17
I19	23 Mar 2015	Weather	Partly Cloudy
I19	23 Mar 2015	Visibility (mi)	14
I19	23 Mar 2015	Wind Speed (kts)	7
I19	23 Mar 2015	Wind Dir	W
I19	23 Mar 2015	Water Color	Green
I19	23 Mar 2015	Wave Ht Low (ft)	4
I19	23 Mar 2015	Wave Period (sec)	9
I19	23 Mar 2015	Sea State	Light chop
I19	23 Mar 2015	High Tide (ft)	4.11
I19	23 Mar 2015	High Tide Time	1215
I19	23 Mar 2015	Low Tide (ft)	-0.39
I19	23 Mar 2015	Low Tide Time	610
I19	23 Mar 2015	Comments	
I19	26 Mar 2015	Depth (m)	10
I19	26 Mar 2015	Arrive Time	1040
I19	26 Mar 2015	Depart Time	1048
I19	26 Mar 2015	Air Temp (C)	18
I19	26 Mar 2015	Weather	Clear
I19	26 Mar 2015	Visibility (mi)	10
I19	26 Mar 2015	Wind Speed (kts)	4
I19	26 Mar 2015	Wind Dir	NE
I19	26 Mar 2015	Water Color	Green
I19	26 Mar 2015	Wave Ht Low (ft)	4
I19	26 Mar 2015	Wave Period (sec)	16
I19	26 Mar 2015	Sea State	Wind ripples
I19	26 Mar 2015	High Tide (ft)	3.02
I19	26 Mar 2015	High Tide Time	1646
I19	26 Mar 2015	Low Tide (ft)	0.49
I19	26 Mar 2015	Low Tide Time	946
I19	26 Mar 2015	Comments	Kelp debris

Station	Date	Parameter	Value
I24	07 Mar 2015	Depth (m)	10
I24	07 Mar 2015	Arrive Time	1156
I24	07 Mar 2015	Depart Time	1202
I24	07 Mar 2015	Air Temp (C)	18
I24	07 Mar 2015	Weather	Partly Cloudy
I24	07 Mar 2015	Visibility (mi)	12
I24	07 Mar 2015	Wind Speed (kts)	4
I24	07 Mar 2015	Wind Dir	NE
I24	07 Mar 2015	Water Color	Green
I24	07 Mar 2015	Wave Ht Low (ft)	2
I24	07 Mar 2015	Wave Period (sec)	9
I24	07 Mar 2015	Sea State	Calm
I24	07 Mar 2015	High Tide (ft)	4.63
I24	07 Mar 2015	High Tide Time	936
I24	07 Mar 2015	Low Tide (ft)	0.28
I24	07 Mar 2015	Low Tide Time	1553
I24	07 Mar 2015	Comments	Boats
I24	09 Mar 2015	Depth (m)	10
I24	09 Mar 2015	Arrive Time	1053
I24	09 Mar 2015	Depart Time	1057
I24	09 Mar 2015	Air Temp (C)	14
I24	09 Mar 2015	Weather	Partly Cloudy
I24	09 Mar 2015	Visibility (mi)	5
I24	09 Mar 2015	Wind Speed (kts)	3
I24	09 Mar 2015	Wind Dir	NW
I24	09 Mar 2015	Water Color	Greenish-Brown
I24	09 Mar 2015	Wave Ht Low (ft)	2
I24	09 Mar 2015	Wave Period (sec)	11
I24	09 Mar 2015	Sea State	Calm
I24	09 Mar 2015	High Tide (ft)	3.82
I24	09 Mar 2015	High Tide Time	1144
I24	09 Mar 2015	Low Tide (ft)	0.71
I24	09 Mar 2015	Low Tide Time	554
I24	09 Mar 2015	Comments	Resample 6 and 11 m
I24	11 Mar 2015	Depth (m)	9
I24	11 Mar 2015	Arrive Time	1133
I24	11 Mar 2015	Depart Time	1140
I24	11 Mar 2015	Air Temp (C)	18
I24	11 Mar 2015	Weather	Partly Cloudy
I24	11 Mar 2015	Visibility (mi)	7
I24	11 Mar 2015	Wind Speed (kts)	2
I24	11 Mar 2015	Wind Dir	SE
I24	11 Mar 2015	Water Color	Green
I24	11 Mar 2015	Wave Ht Low (ft)	2

Station	Date	Parameter	Value
I24	11 Mar 2015	Wave Period (sec)	13
I24	11 Mar 2015	Sea State	Wind ripples
I24	11 Mar 2015	High Tide (ft)	2.87
I24	11 Mar 2015	High Tide Time	1329
I24	11 Mar 2015	Low Tide (ft)	0.99
I24	11 Mar 2015	Low Tide Time	739
I24	11 Mar 2015	Comments	
I24	17 Mar 2015	Depth (m)	10
I24	17 Mar 2015	Arrive Time	1143
I24	17 Mar 2015	Depart Time	1148
I24	17 Mar 2015	Air Temp (C)	18
I24	17 Mar 2015	Weather	Cloudy
I24	17 Mar 2015	Visibility (mi)	10
I24	17 Mar 2015	Wind Speed (kts)	7
I24	17 Mar 2015	Wind Dir	NE
I24	17 Mar 2015	Water Color	Greenish-Brown
I24	17 Mar 2015	Wave Ht Low (ft)	3
I24	17 Mar 2015	Wave Period (sec)	11
I24	17 Mar 2015	Sea State	Calm
I24	17 Mar 2015	High Tide (ft)	5.51
I24	17 Mar 2015	High Tide Time	722
I24	17 Mar 2015	Low Tide (ft)	-0.88
I24	17 Mar 2015	Low Tide Time	1410
I24	17 Mar 2015	Comments	
I24	23 Mar 2015	Depth (m)	10
I24	23 Mar 2015	Arrive Time	1150
I24	23 Mar 2015	Depart Time	1157
I24	23 Mar 2015	Air Temp (C)	17
I24	23 Mar 2015	Weather	Partly Cloudy
I24	23 Mar 2015	Visibility (mi)	14
I24	23 Mar 2015	Wind Speed (kts)	6
I24	23 Mar 2015	Wind Dir	E
I24	23 Mar 2015	Water Color	Green
I24	23 Mar 2015	Wave Ht Low (ft)	4
I24	23 Mar 2015	Wave Period (sec)	9
I24	23 Mar 2015	Sea State	Light chop
I24	23 Mar 2015	High Tide (ft)	4.11
I24	23 Mar 2015	High Tide Time	1215
I24	23 Mar 2015	Low Tide (ft)	-0.39
I24	23 Mar 2015	Low Tide Time	610
I24	23 Mar 2015	Comments	
I24	26 Mar 2015	Depth (m)	10
I24	26 Mar 2015	Arrive Time	1105
I24	26 Mar 2015	Depart Time	1112

Station	Date	Parameter	Value
I24	26 Mar 2015	Air Temp (C)	19
I24	26 Mar 2015	Weather	Clear
I24	26 Mar 2015	Visibility (mi)	10
I24	26 Mar 2015	Wind Speed (kts)	3
I24	26 Mar 2015	Wind Dir	NE
I24	26 Mar 2015	Water Color	Green
I24	26 Mar 2015	Wave Ht Low (ft)	4
I24	26 Mar 2015	Wave Period (sec)	16
I24	26 Mar 2015	Sea State	Wind ripples
I24	26 Mar 2015	High Tide (ft)	3.02
I24	26 Mar 2015	High Tide Time	1646
I24	26 Mar 2015	Low Tide (ft)	0.49
I24	26 Mar 2015	Low Tide Time	946
I24	26 Mar 2015	Comments	Seagrass
I25	07 Mar 2015	Depth (m)	10
I25	07 Mar 2015	Arrive Time	1207
I25	07 Mar 2015	Depart Time	1215
I25	07 Mar 2015	Air Temp (C)	18
I25	07 Mar 2015	Weather	Partly Cloudy
I25	07 Mar 2015	Visibility (mi)	12
I25	07 Mar 2015	Wind Speed (kts)	5
I25	07 Mar 2015	Wind Dir	SW
I25	07 Mar 2015	Water Color	Green
I25	07 Mar 2015	Wave Ht Low (ft)	2
I25	07 Mar 2015	Wave Period (sec)	9
I25	07 Mar 2015	Sea State	Calm
I25	07 Mar 2015	High Tide (ft)	4.63
I25	07 Mar 2015	High Tide Time	936
I25	07 Mar 2015	Low Tide (ft)	0.28
I25	07 Mar 2015	Low Tide Time	1553
I25	07 Mar 2015	Comments	Boats
I25	09 Mar 2015	Depth (m)	10
I25	09 Mar 2015	Arrive Time	1108
I25	09 Mar 2015	Depart Time	1110
I25	09 Mar 2015	Air Temp (C)	14
I25	09 Mar 2015	Weather	Partly Cloudy
I25	09 Mar 2015	Visibility (mi)	5
I25	09 Mar 2015	Wind Speed (kts)	14
I25	09 Mar 2015	Wind Dir	S
I25	09 Mar 2015	Water Color	Greenish-Brown
I25	09 Mar 2015	Wave Ht Low (ft)	2
I25	09 Mar 2015	Wave Period (sec)	11
I25	09 Mar 2015	Sea State	Calm
I25	09 Mar 2015	High Tide (ft)	3.82
I25	09 Mar 2015	High Tide Time	1144

Station	Date	Parameter	Value
I25	09 Mar 2015	Low Tide (ft)	0.71
I25	09 Mar 2015	Low Tide Time	554
I25	09 Mar 2015	Comments	resample 6 m
I25	11 Mar 2015	Depth (m)	9
I25	11 Mar 2015	Arrive Time	1145
I25	11 Mar 2015	Depart Time	1151
I25	11 Mar 2015	Air Temp (C)	18
I25	11 Mar 2015	Weather	Partly Cloudy
I25	11 Mar 2015	Visibility (mi)	7
I25	11 Mar 2015	Wind Speed (kts)	4
I25	11 Mar 2015	Wind Dir	SE
I25	11 Mar 2015	Water Color	Green
I25	11 Mar 2015	Wave Ht Low (ft)	2
I25	11 Mar 2015	Wave Period (sec)	13
I25	11 Mar 2015	Sea State	Wind ripples
I25	11 Mar 2015	High Tide (ft)	2.87
I25	11 Mar 2015	High Tide Time	1329
I25	11 Mar 2015	Low Tide (ft)	0.99
I25	11 Mar 2015	Low Tide Time	739
I25	11 Mar 2015	Comments	
I25	17 Mar 2015	Depth (m)	10
I25	17 Mar 2015	Arrive Time	1152
I25	17 Mar 2015	Depart Time	1158
I25	17 Mar 2015	Air Temp (C)	18
I25	17 Mar 2015	Weather	Cloudy
I25	17 Mar 2015	Visibility (mi)	10
I25	17 Mar 2015	Wind Speed (kts)	5
I25	17 Mar 2015	Wind Dir	W
I25	17 Mar 2015	Water Color	Greenish-Brown
I25	17 Mar 2015	Wave Ht Low (ft)	3
I25	17 Mar 2015	Wave Period (sec)	11
I25	17 Mar 2015	Sea State	Calm
I25	17 Mar 2015	High Tide (ft)	5.51
I25	17 Mar 2015	High Tide Time	722
I25	17 Mar 2015	Low Tide (ft)	-0.88
I25	17 Mar 2015	Low Tide Time	1410
I25	17 Mar 2015	Comments	
I25	23 Mar 2015	Depth (m)	10
I25	23 Mar 2015	Arrive Time	1200
I25	23 Mar 2015	Depart Time	1209
I25	23 Mar 2015	Air Temp (C)	17
I25	23 Mar 2015	Weather	Partly Cloudy
I25	23 Mar 2015	Visibility (mi)	14
I25	23 Mar 2015	Wind Speed (kts)	9

Station	Date	Parameter	Value
I25	23 Mar 2015	Wind Dir	W
I25	23 Mar 2015	Water Color	Green
I25	23 Mar 2015	Wave Ht Low (ft)	4
I25	23 Mar 2015	Wave Period (sec)	9
I25	23 Mar 2015	Sea State	Light chop
I25	23 Mar 2015	High Tide (ft)	4.11
I25	23 Mar 2015	High Tide Time	1215
I25	23 Mar 2015	Low Tide (ft)	-0.39
I25	23 Mar 2015	Low Tide Time	610
I25	23 Mar 2015	Comments	
I25	26 Mar 2015	Depth (m)	8
I25	26 Mar 2015	Arrive Time	1116
I25	26 Mar 2015	Depart Time	1125
I25	26 Mar 2015	Air Temp (C)	19
I25	26 Mar 2015	Weather	Clear
I25	26 Mar 2015	Visibility (mi)	12
I25	26 Mar 2015	Wind Speed (kts)	5
I25	26 Mar 2015	Wind Dir	N
I25	26 Mar 2015	Water Color	Green
I25	26 Mar 2015	Wave Ht Low (ft)	4
I25	26 Mar 2015	Wave Period (sec)	16
I25	26 Mar 2015	Sea State	Wind ripples
I25	26 Mar 2015	High Tide (ft)	3.02
I25	26 Mar 2015	High Tide Time	1646
I25	26 Mar 2015	Low Tide (ft)	0.49
I25	26 Mar 2015	Low Tide Time	946
I25	26 Mar 2015	Comments	
I26	07 Mar 2015	Depth (m)	10
I26	07 Mar 2015	Arrive Time	1221
I26	07 Mar 2015	Depart Time	1226
I26	07 Mar 2015	Air Temp (C)	18
I26	07 Mar 2015	Weather	Partly Cloudy
I26	07 Mar 2015	Visibility (mi)	12
I26	07 Mar 2015	Wind Speed (kts)	6
I26	07 Mar 2015	Wind Dir	NE
I26	07 Mar 2015	Water Color	Green
I26	07 Mar 2015	Wave Ht Low (ft)	2
I26	07 Mar 2015	Wave Period (sec)	9
I26	07 Mar 2015	Sea State	Calm
I26	07 Mar 2015	High Tide (ft)	4.63
I26	07 Mar 2015	High Tide Time	936
I26	07 Mar 2015	Low Tide (ft)	0.28
I26	07 Mar 2015	Low Tide Time	1553
I26	07 Mar 2015	Comments	Boats

Station	Date	Parameter	Value
I26	11 Mar 2015	Depth (m)	10
I26	11 Mar 2015	Arrive Time	1157
I26	11 Mar 2015	Depart Time	1202
I26	11 Mar 2015	Air Temp (C)	17
I26	11 Mar 2015	Weather	Partly Cloudy
I26	11 Mar 2015	Visibility (mi)	7
I26	11 Mar 2015	Wind Speed (kts)	7
I26	11 Mar 2015	Wind Dir	S
I26	11 Mar 2015	Water Color	Green
I26	11 Mar 2015	Wave Ht Low (ft)	2
I26	11 Mar 2015	Wave Period (sec)	13
I26	11 Mar 2015	Sea State	Light chop
I26	11 Mar 2015	High Tide (ft)	2.87
I26	11 Mar 2015	High Tide Time	1329
I26	11 Mar 2015	Low Tide (ft)	0.99
I26	11 Mar 2015	Low Tide Time	739
I26	11 Mar 2015	Comments	
I26	17 Mar 2015	Depth (m)	9
I26	17 Mar 2015	Arrive Time	1204
I26	17 Mar 2015	Depart Time	1210
I26	17 Mar 2015	Air Temp (C)	18
I26	17 Mar 2015	Weather	Cloudy
I26	17 Mar 2015	Visibility (mi)	10
I26	17 Mar 2015	Wind Speed (kts)	5
I26	17 Mar 2015	Wind Dir	NW
I26	17 Mar 2015	Water Color	Greenish-Brown
I26	17 Mar 2015	Wave Ht Low (ft)	3
I26	17 Mar 2015	Wave Period (sec)	11
I26	17 Mar 2015	Sea State	Calm
I26	17 Mar 2015	High Tide (ft)	5.51
I26	17 Mar 2015	High Tide Time	722
I26	17 Mar 2015	Low Tide (ft)	-0.88
I26	17 Mar 2015	Low Tide Time	1410
I26	17 Mar 2015	Comments	
I26	23 Mar 2015	Depth (m)	10
I26	23 Mar 2015	Arrive Time	1213
I26	23 Mar 2015	Depart Time	1219
I26	23 Mar 2015	Air Temp (C)	17
I26	23 Mar 2015	Weather	Clear
I26	23 Mar 2015	Visibility (mi)	14
I26	23 Mar 2015	Wind Speed (kts)	6
I26	23 Mar 2015	Wind Dir	SE
I26	23 Mar 2015	Water Color	Green
I26	23 Mar 2015	Wave Ht Low (ft)	4
I26	23 Mar 2015	Wave Period (sec)	9

Station	Date	Parameter	Value
I26	23 Mar 2015	Sea State	Light chop
I26	23 Mar 2015	High Tide (ft)	4.11
I26	23 Mar 2015	High Tide Time	1215
I26	23 Mar 2015	Low Tide (ft)	-0.39
I26	23 Mar 2015	Low Tide Time	610
I26	23 Mar 2015	Comments	Boats
I26	26 Mar 2015	Depth (m)	9
I26	26 Mar 2015	Arrive Time	1132
I26	26 Mar 2015	Depart Time	1138
I26	26 Mar 2015	Air Temp (C)	19
I26	26 Mar 2015	Weather	Clear
I26	26 Mar 2015	Visibility (mi)	12
I26	26 Mar 2015	Wind Speed (kts)	7
I26	26 Mar 2015	Wind Dir	NW
I26	26 Mar 2015	Water Color	Green
I26	26 Mar 2015	Wave Ht Low (ft)	4
I26	26 Mar 2015	Wave Period (sec)	16
I26	26 Mar 2015	Sea State	Wind ripples
I26	26 Mar 2015	High Tide (ft)	3.02
I26	26 Mar 2015	High Tide Time	1646
I26	26 Mar 2015	Low Tide (ft)	0.49
I26	26 Mar 2015	Low Tide Time	946
I26	26 Mar 2015	Comments	Kelp debris
I32	07 Mar 2015	Depth (m)	9
I32	07 Mar 2015	Arrive Time	1236
I32	07 Mar 2015	Depart Time	1243
I32	07 Mar 2015	Air Temp (C)	18
I32	07 Mar 2015	Weather	Partly Cloudy
I32	07 Mar 2015	Visibility (mi)	12
I32	07 Mar 2015	Wind Speed (kts)	6
I32	07 Mar 2015	Wind Dir	NE
I32	07 Mar 2015	Water Color	Green
I32	07 Mar 2015	Wave Ht Low (ft)	2
I32	07 Mar 2015	Wave Period (sec)	9
I32	07 Mar 2015	Sea State	Calm
I32	07 Mar 2015	High Tide (ft)	4.63
I32	07 Mar 2015	High Tide Time	936
I32	07 Mar 2015	Low Tide (ft)	0.28
I32	07 Mar 2015	Low Tide Time	1553
I32	07 Mar 2015	Comments	Boats; 20 to 30 sea gulls on station
I32	11 Mar 2015	Depth (m)	11
I32	11 Mar 2015	Arrive Time	1211
I32	11 Mar 2015	Depart Time	1217
I32	11 Mar 2015	Air Temp (C)	17

Station	Date	Parameter	Value
I32	11 Mar 2015	Weather	Partly Cloudy
I32	11 Mar 2015	Visibility (mi)	7
I32	11 Mar 2015	Wind Speed (kts)	6
I32	11 Mar 2015	Wind Dir	E
I32	11 Mar 2015	Water Color	Green
I32	11 Mar 2015	Wave Ht Low (ft)	2
I32	11 Mar 2015	Wave Period (sec)	13
I32	11 Mar 2015	Sea State	Light chop
I32	11 Mar 2015	High Tide (ft)	2.87
I32	11 Mar 2015	High Tide Time	1329
I32	11 Mar 2015	Low Tide (ft)	0.99
I32	11 Mar 2015	Low Tide Time	739
I32	11 Mar 2015	Comments	
I32	17 Mar 2015	Depth (m)	10
I32	17 Mar 2015	Arrive Time	1220
I32	17 Mar 2015	Depart Time	1226
I32	17 Mar 2015	Air Temp (C)	18
I32	17 Mar 2015	Weather	Cloudy
I32	17 Mar 2015	Visibility (mi)	10
I32	17 Mar 2015	Wind Speed (kts)	7
I32	17 Mar 2015	Wind Dir	W
I32	17 Mar 2015	Water Color	Greenish-Brown
I32	17 Mar 2015	Wave Ht Low (ft)	3
I32	17 Mar 2015	Wave Period (sec)	11
I32	17 Mar 2015	Sea State	Calm
I32	17 Mar 2015	High Tide (ft)	5.51
I32	17 Mar 2015	High Tide Time	722
I32	17 Mar 2015	Low Tide (ft)	-0.88
I32	17 Mar 2015	Low Tide Time	1410
I32	17 Mar 2015	Comments	
I32	23 Mar 2015	Depth (m)	11
I32	23 Mar 2015	Arrive Time	1229
I32	23 Mar 2015	Depart Time	1236
I32	23 Mar 2015	Air Temp (C)	17
I32	23 Mar 2015	Weather	Clear
I32	23 Mar 2015	Visibility (mi)	14
I32	23 Mar 2015	Wind Speed (kts)	4
I32	23 Mar 2015	Wind Dir	N
I32	23 Mar 2015	Water Color	Green
I32	23 Mar 2015	Wave Ht Low (ft)	4
I32	23 Mar 2015	Wave Period (sec)	9
I32	23 Mar 2015	Sea State	Light chop
I32	23 Mar 2015	High Tide (ft)	4.11
I32	23 Mar 2015	High Tide Time	1215
I32	23 Mar 2015	Low Tide (ft)	-0.39

Station	Date	Parameter	Value
I32	23 Mar 2015	Low Tide Time	610
I32	23 Mar 2015	Comments	
I32	26 Mar 2015	Depth (m)	10
I32	26 Mar 2015	Arrive Time	1148
I32	26 Mar 2015	Depart Time	1154
I32	26 Mar 2015	Air Temp (C)	19
I32	26 Mar 2015	Weather	Clear
I32	26 Mar 2015	Visibility (mi)	12
I32	26 Mar 2015	Wind Speed (kts)	8
I32	26 Mar 2015	Wind Dir	SW
I32	26 Mar 2015	Water Color	Green
I32	26 Mar 2015	Wave Ht Low (ft)	4
I32	26 Mar 2015	Wave Period (sec)	16
I32	26 Mar 2015	Sea State	Wind ripples
I32	26 Mar 2015	High Tide (ft)	3.02
I32	26 Mar 2015	High Tide Time	1646
I32	26 Mar 2015	Low Tide (ft)	0.49
I32	26 Mar 2015	Low Tide Time	946
I32	26 Mar 2015	Comments	
I39	07 Mar 2015	Depth (m)	18
I39	07 Mar 2015	Arrive Time	1056
I39	07 Mar 2015	Depart Time	1104
I39	07 Mar 2015	Air Temp (C)	18
I39	07 Mar 2015	Weather	Partly Cloudy
I39	07 Mar 2015	Visibility (mi)	12
I39	07 Mar 2015	Wind Speed (kts)	8
I39	07 Mar 2015	Wind Dir	SW
I39	07 Mar 2015	Water Color	Green
I39	07 Mar 2015	Wave Ht Low (ft)	2
I39	07 Mar 2015	Wave Period (sec)	9
I39	07 Mar 2015	Sea State	Calm
I39	07 Mar 2015	High Tide (ft)	4.63
I39	07 Mar 2015	High Tide Time	936
I39	07 Mar 2015	Low Tide (ft)	0.28
I39	07 Mar 2015	Low Tide Time	1553
I39	07 Mar 2015	Comments	Kelp
I39	11 Mar 2015	Depth (m)	19
I39	11 Mar 2015	Arrive Time	1043
I39	11 Mar 2015	Depart Time	1050
I39	11 Mar 2015	Air Temp (C)	17
I39	11 Mar 2015	Weather	Partly Cloudy
I39	11 Mar 2015	Visibility (mi)	7
I39	11 Mar 2015	Wind Speed (kts)	1
I39	11 Mar 2015	Wind Dir	S

Station	Date	Parameter	Value
I39	11 Mar 2015	Water Color	Bluish-Green
I39	11 Mar 2015	Wave Ht Low (ft)	2
I39	11 Mar 2015	Wave Period (sec)	13
I39	11 Mar 2015	Sea State	Wind ripples
I39	11 Mar 2015	High Tide (ft)	2.87
I39	11 Mar 2015	High Tide Time	1329
I39	11 Mar 2015	Low Tide (ft)	0.99
I39	11 Mar 2015	Low Tide Time	739
I39	11 Mar 2015	Comments	
I39	17 Mar 2015	Depth (m)	19
I39	17 Mar 2015	Arrive Time	1053
I39	17 Mar 2015	Depart Time	1102
I39	17 Mar 2015	Air Temp (C)	18
I39	17 Mar 2015	Weather	Partly Cloudy
I39	17 Mar 2015	Visibility (mi)	10
I39	17 Mar 2015	Wind Speed (kts)	3
I39	17 Mar 2015	Wind Dir	NE
I39	17 Mar 2015	Water Color	Greenish-Blue
I39	17 Mar 2015	Wave Ht Low (ft)	3
I39	17 Mar 2015	Wave Period (sec)	11
I39	17 Mar 2015	Sea State	Calm
I39	17 Mar 2015	High Tide (ft)	5.51
I39	17 Mar 2015	High Tide Time	722
I39	17 Mar 2015	Low Tide (ft)	-0.88
I39	17 Mar 2015	Low Tide Time	1410
I39	17 Mar 2015	Comments	
I39	23 Mar 2015	Depth (m)	19
I39	23 Mar 2015	Arrive Time	1100
I39	23 Mar 2015	Depart Time	1109
I39	23 Mar 2015	Air Temp (C)	17
I39	23 Mar 2015	Weather	Partly Cloudy
I39	23 Mar 2015	Visibility (mi)	14
I39	23 Mar 2015	Wind Speed (kts)	4
I39	23 Mar 2015	Wind Dir	SW
I39	23 Mar 2015	Water Color	Green
I39	23 Mar 2015	Wave Ht Low (ft)	4
I39	23 Mar 2015	Wave Period (sec)	9
I39	23 Mar 2015	Sea State	Light chop
I39	23 Mar 2015	High Tide (ft)	4.11
I39	23 Mar 2015	High Tide Time	1215
I39	23 Mar 2015	Low Tide (ft)	-0.39
I39	23 Mar 2015	Low Tide Time	610
I39	23 Mar 2015	Comments	Kelp
I39	26 Mar 2015	Depth (m)	8

Station	Date	Parameter	Value
I39	26 Mar 2015	Arrive Time	1019
I39	26 Mar 2015	Depart Time	1026
I39	26 Mar 2015	Air Temp (C)	19
I39	26 Mar 2015	Weather	Clear
I39	26 Mar 2015	Visibility (mi)	10
I39	26 Mar 2015	Wind Speed (kts)	3
I39	26 Mar 2015	Wind Dir	NE
I39	26 Mar 2015	Water Color	Bluish-Green
I39	26 Mar 2015	Wave Ht Low (ft)	4
I39	26 Mar 2015	Wave Period (sec)	16
I39	26 Mar 2015	Sea State	Wind ripples
I39	26 Mar 2015	High Tide (ft)	3.02
I39	26 Mar 2015	High Tide Time	1646
I39	26 Mar 2015	Low Tide (ft)	0.49
I39	26 Mar 2015	Low Tide Time	946
I39	26 Mar 2015	Comments	
I40	07 Mar 2015	Depth (m)	9
I40	07 Mar 2015	Arrive Time	1144
I40	07 Mar 2015	Depart Time	1151
I40	07 Mar 2015	Air Temp (C)	18
I40	07 Mar 2015	Weather	Partly Cloudy
I40	07 Mar 2015	Visibility (mi)	12
I40	07 Mar 2015	Wind Speed (kts)	4
I40	07 Mar 2015	Wind Dir	SW
I40	07 Mar 2015	Water Color	Green
I40	07 Mar 2015	Wave Ht Low (ft)	2
I40	07 Mar 2015	Wave Period (sec)	9
I40	07 Mar 2015	Sea State	Calm
I40	07 Mar 2015	High Tide (ft)	4.63
I40	07 Mar 2015	High Tide Time	936
I40	07 Mar 2015	Low Tide (ft)	0.28
I40	07 Mar 2015	Low Tide Time	1553
I40	07 Mar 2015	Comments	
I40	11 Mar 2015	Depth (m)	10
I40	11 Mar 2015	Arrive Time	1120
I40	11 Mar 2015	Depart Time	1126
I40	11 Mar 2015	Air Temp (C)	17
I40	11 Mar 2015	Weather	Partly Cloudy
I40	11 Mar 2015	Visibility (mi)	7
I40	11 Mar 2015	Wind Speed (kts)	3
I40	11 Mar 2015	Wind Dir	W
I40	11 Mar 2015	Water Color	Green
I40	11 Mar 2015	Wave Ht Low (ft)	2
I40	11 Mar 2015	Wave Period (sec)	13
I40	11 Mar 2015	Sea State	Wind ripples

Station	Date	Parameter	Value
I40	11 Mar 2015	High Tide (ft)	2.87
I40	11 Mar 2015	High Tide Time	1329
I40	11 Mar 2015	Low Tide (ft)	0.99
I40	11 Mar 2015	Low Tide Time	739
I40	11 Mar 2015	Comments	Freshwater lens
I40	17 Mar 2015	Depth (m)	10
I40	17 Mar 2015	Arrive Time	1132
I40	17 Mar 2015	Depart Time	1139
I40	17 Mar 2015	Air Temp (C)	19
I40	17 Mar 2015	Weather	Cloudy
I40	17 Mar 2015	Visibility (mi)	10
I40	17 Mar 2015	Wind Speed (kts)	6
I40	17 Mar 2015	Wind Dir	N
I40	17 Mar 2015	Water Color	Greenish-Brown
I40	17 Mar 2015	Wave Ht Low (ft)	3
I40	17 Mar 2015	Wave Period (sec)	11
I40	17 Mar 2015	Sea State	Calm
I40	17 Mar 2015	High Tide (ft)	5.51
I40	17 Mar 2015	High Tide Time	722
I40	17 Mar 2015	Low Tide (ft)	-0.88
I40	17 Mar 2015	Low Tide Time	1410
I40	17 Mar 2015	Comments	
I40	23 Mar 2015	Depth (m)	12
I40	23 Mar 2015	Arrive Time	1142
I40	23 Mar 2015	Depart Time	1147
I40	23 Mar 2015	Air Temp (C)	17
I40	23 Mar 2015	Weather	Partly Cloudy
I40	23 Mar 2015	Visibility (mi)	14
I40	23 Mar 2015	Wind Speed (kts)	19
I40	23 Mar 2015	Wind Dir	SW
I40	23 Mar 2015	Water Color	Green
I40	23 Mar 2015	Wave Ht Low (ft)	4
I40	23 Mar 2015	Wave Period (sec)	9
I40	23 Mar 2015	Sea State	Light chop
I40	23 Mar 2015	High Tide (ft)	4.11
I40	23 Mar 2015	High Tide Time	1215
I40	23 Mar 2015	Low Tide (ft)	-0.39
I40	23 Mar 2015	Low Tide Time	610
I40	23 Mar 2015	Comments	
I40	26 Mar 2015	Depth (m)	10
I40	26 Mar 2015	Arrive Time	1055
I40	26 Mar 2015	Depart Time	1101
I40	26 Mar 2015	Air Temp (C)	19
I40	26 Mar 2015	Weather	Clear

Station	Date	Parameter	Value
I40	26 Mar 2015	Visibility (mi)	10
I40	26 Mar 2015	Wind Speed (kts)	3
I40	26 Mar 2015	Wind Dir	S
I40	26 Mar 2015	Water Color	Green
I40	26 Mar 2015	Wave Ht Low (ft)	4
I40	26 Mar 2015	Wave Period (sec)	16
I40	26 Mar 2015	Sea State	Wind ripples
I40	26 Mar 2015	High Tide (ft)	3.02
I40	26 Mar 2015	High Tide Time	1646
I40	26 Mar 2015	Low Tide (ft)	0.49
I40	26 Mar 2015	Low Tide Time	946
I40	26 Mar 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 (σ -t)	Chlor (μ g/L)
I19	07 Mar 2015	1	17.25	73.04	7.9	33.26	8.2	24.1	0.64
I19	07 Mar 2015	2	17.00	72.58	7.8	33.23	8.2	24.2	0.69
I19	07 Mar 2015	3	16.39	71.83	7.9	33.24	8.2	24.3	0.96
I19	07 Mar 2015	4	16.28	70.44	7.9	33.24	8.2	24.3	1.56
I19	07 Mar 2015	5	16.16	70.47	7.8	33.25	8.2	24.4	2.08
I19	07 Mar 2015	6	16.06	70.69	7.5	33.25	8.2	24.4	2.65
I19	07 Mar 2015	7	15.81	68.14	7.5	33.25	8.2	24.4	4.06
I19	07 Mar 2015	8	15.64	64.51	7.4	33.26	8.2	24.5	5.67
I19	07 Mar 2015	9	15.51	65.55	7.3	33.26	8.2	24.5	7.96
I19	07 Mar 2015	10	15.42	62.05	7.1	33.26	8.2	24.5	8.21
I19	11 Mar 2015	1	16.41	70.69	7.8	33.26	8.2	24.3	2.61
I19	11 Mar 2015	2	16.42	70.37	7.7	33.26	8.2	24.3	2.70
I19	11 Mar 2015	3	16.31	69.51	7.6	33.26	8.2	24.3	2.72
I19	11 Mar 2015	4	15.88	70.37	7.4	33.27	8.2	24.4	2.89
I19	11 Mar 2015	5	15.00	73.65	7.0	33.26	8.1	24.6	3.71
I19	11 Mar 2015	6	14.71	70.44	7.0	33.26	8.1	24.7	4.34
I19	11 Mar 2015	7	14.68	64.59	7.0	33.26	8.1	24.7	3.89
I19	11 Mar 2015	8	14.67	66.59	7.0	33.26	8.1	24.7	4.17
I19	11 Mar 2015	9	14.66	67.54	6.9	33.27	8.1	24.7	4.49
I19	11 Mar 2015	10	14.67	63.68	6.8	33.27	8.1	24.7	5.58
I19	17 Mar 2015	1	17.31	91.44	7.9	33.32	8.2	24.1	0.25
I19	17 Mar 2015	2	17.16	91.23	7.8	33.32	8.2	24.2	0.25
I19	17 Mar 2015	3	17.05	91.32	7.9	33.32	8.2	24.2	0.26
I19	17 Mar 2015	4	17.01	91.61	8.0	33.32	8.2	24.2	0.27
I19	17 Mar 2015	5	16.98	91.77	7.9	33.32	8.2	24.2	0.28
I19	17 Mar 2015	6	16.82	91.80	8.0	33.33	8.2	24.3	0.33
I19	17 Mar 2015	7	16.62	91.35	8.0	33.32	8.2	24.3	0.42
I19	17 Mar 2015	8	15.94	90.38	8.1	33.32	8.2	24.5	0.67
I19	17 Mar 2015	9	15.62	85.73	8.1	33.32	8.2	24.5	0.86
I19	17 Mar 2015	10	15.35	82.48	7.9	33.31	8.2	24.6	1.72
I19	23 Mar 2015	1	17.63	66.65	7.8	33.32	8.2	24.1	0.72
I19	23 Mar 2015	2	17.50	66.09	7.8	33.31	8.2	24.1	0.83
I19	23 Mar 2015	3	16.90	64.22	7.8	33.25	8.2	24.2	1.00
I19	23 Mar 2015	4	15.77	65.90	8.1	33.26	8.2	24.5	1.30
I19	23 Mar 2015	5	15.64	72.49	7.9	33.27	8.2	24.5	1.97
I19	23 Mar 2015	6	15.59	60.91	7.8	33.26	8.2	24.5	2.68
I19	23 Mar 2015	7	15.45	60.01	7.9	33.26	8.2	24.5	3.13
I19	23 Mar 2015	8	15.33	56.18	7.9	33.26	8.2	24.6	3.53
I19	23 Mar 2015	9	15.20	56.52	7.9	33.25	8.2	24.6	3.93
I19	23 Mar 2015	10	15.17	55.31	8.0	33.26	8.2	24.6	4.72
I19	26 Mar 2015	1	16.17	58.09	7.8	33.30	8.2	24.4	1.22
I19	26 Mar 2015	2	15.54	58.16	7.7	33.29	8.2	24.5	2.08
I19	26 Mar 2015	3	15.05	46.53	7.7	33.27	8.2	24.6	3.11
I19	26 Mar 2015	4	14.64	41.96	7.6	33.27	8.2	24.7	3.47
I19	26 Mar 2015	5	14.28	48.79	7.3	33.26	8.1	24.8	3.67
I19	26 Mar 2015	6	13.58	51.35	7.1	33.27	8.1	24.9	3.88
I19	26 Mar 2015	7	13.39	44.51	7.0	33.28	8.1	25.0	3.91

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I19	26 Mar 2015	8	13.35	45.29	7.0	33.28	8.1	25.0	4.44
I19	26 Mar 2015	9	13.34	45.26	6.9	33.28	8.1	25.0	6.07
I19	26 Mar 2015	10	13.37	41.07	6.8	33.28	8.1	25.0	7.84
I24	07 Mar 2015	1	17.09	70.01	7.8	33.15	8.2	24.1	0.89
I24	07 Mar 2015	2	16.83	69.82	8.0	33.16	8.2	24.1	1.18
I24	07 Mar 2015	3	16.50	69.26	8.1	33.18	8.2	24.2	1.75
I24	07 Mar 2015	4	16.43	68.57	8.0	33.18	8.2	24.3	2.34
I24	07 Mar 2015	5	16.47	69.96	7.9	33.22	8.2	24.3	2.55
I24	07 Mar 2015	6	16.45	71.83	7.7	33.23	8.2	24.3	2.77
I24	07 Mar 2015	7	16.27	72.55	7.5	33.23	8.2	24.3	3.38
I24	07 Mar 2015	8	16.18	71.05	7.6	33.22	8.2	24.3	3.68
I24	07 Mar 2015	9	16.05	70.04	7.4	33.21	8.2	24.4	4.01
I24	07 Mar 2015	10	15.77	68.27	7.0	33.23	8.2	24.4	3.46
I24	07 Mar 2015	11	15.46	65.53	6.7	33.26	8.1	24.5	2.49
I24	11 Mar 2015	1	16.72	87.85	7.7	33.32	8.2	24.3	0.51
I24	11 Mar 2015	2	16.70	87.77	7.7	33.32	8.2	24.3	0.55
I24	11 Mar 2015	3	16.53	87.87	7.8	33.32	8.2	24.3	0.65
I24	11 Mar 2015	4	16.47	87.10	7.8	33.31	8.2	24.3	0.72
I24	11 Mar 2015	5	16.34	86.43	7.7	33.32	8.2	24.4	0.80
I24	11 Mar 2015	6	16.13	86.72	7.3	33.30	8.2	24.4	0.95
I24	11 Mar 2015	7	15.33	85.13	7.0	33.25	8.2	24.6	1.32
I24	11 Mar 2015	8	14.85	78.59	6.8	33.27	8.1	24.7	1.69
I24	11 Mar 2015	9	14.84	73.14	6.7	33.27	8.1	24.7	2.15
I24	17 Mar 2015	1	17.58	84.53	7.9	33.34	8.2	24.1	0.53
I24	17 Mar 2015	2	17.39	84.47	7.9	33.31	8.2	24.1	0.50
I24	17 Mar 2015	3	16.76	84.66	8.0	33.33	8.2	24.3	0.51
I24	17 Mar 2015	4	16.73	84.84	8.0	33.33	8.2	24.3	0.57
I24	17 Mar 2015	5	16.70	85.23	7.9	33.33	8.2	24.3	0.68
I24	17 Mar 2015	6	16.49	84.75	7.8	33.31	8.2	24.3	0.95
I24	17 Mar 2015	7	16.03	83.11	7.8	33.33	8.2	24.5	1.24
I24	17 Mar 2015	8	15.93	81.36	7.9	33.32	8.2	24.5	1.46
I24	17 Mar 2015	9	15.63	75.16	8.2	33.31	8.2	24.5	1.52
I24	23 Mar 2015	1	18.06	86.27	7.7	33.34	8.2	24.0	0.39
I24	23 Mar 2015	2	18.07	86.42	7.7	33.34	8.2	24.0	0.38
I24	23 Mar 2015	3	18.08	86.38	7.7	33.34	8.2	24.0	0.41
I24	23 Mar 2015	4	17.98	86.45	7.6	33.31	8.2	24.0	0.46
I24	23 Mar 2015	5	17.40	86.43	7.8	33.31	8.2	24.1	0.55
I24	23 Mar 2015	6	16.70	86.52	8.0	33.27	8.2	24.3	0.66
I24	23 Mar 2015	7	16.40	86.55	8.1	33.29	8.2	24.3	0.69
I24	23 Mar 2015	8	16.33	86.42	8.1	33.28	8.2	24.4	0.77
I24	23 Mar 2015	9	16.13	85.76	8.1	33.25	8.2	24.4	0.93
I24	23 Mar 2015	10	15.32	83.84	8.2	33.25	8.2	24.6	1.25
I24	23 Mar 2015	11	15.26	75.41	8.2	33.26	8.2	24.6	1.31
I24	26 Mar 2015	1	17.24	74.61	7.9	33.32	8.2	24.2	0.59
I24	26 Mar 2015	2	17.22	74.46	7.8	33.32	8.2	24.2	0.62
I24	26 Mar 2015	3	16.56	74.25	7.8	33.28	8.2	24.3	0.77
I24	26 Mar 2015	4	15.60	75.25	7.8	33.29	8.2	24.5	0.95
I24	26 Mar 2015	5	15.22	78.24	7.7	33.27	8.2	24.6	1.10
I24	26 Mar 2015	6	14.48	79.69	7.6	33.27	8.2	24.7	1.26
I24	26 Mar 2015	7	13.92	80.41	7.4	33.26	8.2	24.9	1.53

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I24	26 Mar 2015	8	13.24	78.44	6.9	33.28	8.1	25.0	2.71
I24	26 Mar 2015	9	13.26	52.57	6.8	33.28	8.1	25.0	3.31
I24	26 Mar 2015	10	13.23	42.25	6.7	33.28	8.1	25.0	3.37
I25	07 Mar 2015	1	17.29	65.15	7.7	33.15	8.2	24.0	0.89
I25	07 Mar 2015	2	17.07	64.29	7.8	33.12	8.2	24.1	1.17
I25	07 Mar 2015	3	16.39	63.95	7.9	33.14	8.2	24.2	1.98
I25	07 Mar 2015	4	16.44	62.13	7.8	33.18	8.2	24.2	2.61
I25	07 Mar 2015	5	16.34	61.26	7.8	33.20	8.2	24.3	2.95
I25	07 Mar 2015	6	16.41	63.34	7.8	33.25	8.2	24.3	2.68
I25	07 Mar 2015	7	16.39	66.16	7.7	33.26	8.2	24.3	2.74
I25	07 Mar 2015	8	16.21	71.46	7.4	33.25	8.2	24.4	2.71
I25	07 Mar 2015	9	15.85	74.62	7.2	33.26	8.2	24.4	2.13
I25	11 Mar 2015	1	16.77	88.73	7.9	33.32	8.2	24.3	0.36
I25	11 Mar 2015	2	16.65	88.69	7.8	33.32	8.2	24.3	0.39
I25	11 Mar 2015	3	16.59	88.57	7.8	33.32	8.2	24.3	0.43
I25	11 Mar 2015	4	16.42	88.16	7.8	33.32	8.2	24.4	0.49
I25	11 Mar 2015	5	16.34	88.11	7.9	33.32	8.2	24.4	0.53
I25	11 Mar 2015	6	16.30	88.10	7.8	33.32	8.2	24.4	0.57
I25	11 Mar 2015	7	16.15	88.03	7.8	33.31	8.2	24.4	0.64
I25	11 Mar 2015	8	15.77	88.12	7.8	33.28	8.2	24.5	0.78
I25	11 Mar 2015	9	15.29	87.93	8.0	33.30	8.2	24.6	0.81
I25	17 Mar 2015	1	17.53	85.98	8.0	33.31	8.2	24.1	0.43
I25	17 Mar 2015	2	17.20	86.06	8.0	33.33	8.2	24.2	0.43
I25	17 Mar 2015	3	16.85	86.22	8.0	33.33	8.2	24.3	0.48
I25	17 Mar 2015	4	16.67	86.25	8.0	33.33	8.2	24.3	0.58
I25	17 Mar 2015	5	16.57	85.28	7.9	33.33	8.2	24.3	0.71
I25	17 Mar 2015	6	16.48	82.45	7.9	33.33	8.2	24.4	0.89
I25	17 Mar 2015	7	16.14	80.53	7.9	33.30	8.2	24.4	1.14
I25	17 Mar 2015	8	15.68	78.76	8.2	33.32	8.2	24.5	1.11
I25	17 Mar 2015	9	15.65	77.55	8.2	33.32	8.2	24.5	1.08
I25	23 Mar 2015	1	18.00	87.44	7.7	33.33	8.2	24.0	0.40
I25	23 Mar 2015	2	18.00	87.45	7.8	33.33	8.2	24.0	0.42
I25	23 Mar 2015	3	17.96	87.86	7.8	33.33	8.2	24.0	0.44
I25	23 Mar 2015	4	17.50	87.92	7.8	33.31	8.2	24.1	0.52
I25	23 Mar 2015	5	17.28	87.82	7.8	33.29	8.2	24.1	0.58
I25	23 Mar 2015	6	16.52	88.03	8.0	33.28	8.2	24.3	0.72
I25	23 Mar 2015	7	16.33	87.92	8.1	33.28	8.2	24.4	0.78
I25	23 Mar 2015	8	16.22	87.50	8.2	33.29	8.2	24.4	0.71
I25	23 Mar 2015	9	16.22	88.01	8.2	33.29	8.2	24.4	0.68
I25	26 Mar 2015	1	17.68	74.83	7.8	33.33	8.2	24.1	0.51
I25	26 Mar 2015	2	17.31	74.89	7.8	33.34	8.2	24.2	0.52
I25	26 Mar 2015	3	17.08	76.73	7.9	33.33	8.2	24.2	0.56
I25	26 Mar 2015	4	17.02	75.21	8.0	33.32	8.2	24.2	0.68
I25	26 Mar 2015	5	16.58	75.12	8.0	33.30	8.2	24.3	0.76
I25	26 Mar 2015	6	15.19	76.73	8.0	33.30	8.2	24.6	1.00
I25	26 Mar 2015	7	14.52	78.49	7.9	33.27	8.2	24.7	1.35
I25	26 Mar 2015	8	13.94	78.71	7.8	33.29	8.2	24.9	1.30
I25	26 Mar 2015	9	13.82	78.41	7.7	33.29	8.1	24.9	1.26
I26	07 Mar 2015	1	16.61	74.06	7.9	33.27	8.2	24.3	1.07

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I26	07 Mar 2015	2	16.51	74.22	7.9	33.27	8.2	24.3	1.23
I26	07 Mar 2015	3	16.52	73.94	7.9	33.27	8.2	24.3	1.36
I26	07 Mar 2015	4	16.37	73.18	7.7	33.27	8.2	24.3	1.75
I26	07 Mar 2015	5	16.28	72.56	7.6	33.27	8.2	24.4	2.22
I26	07 Mar 2015	6	16.11	71.26	7.5	33.27	8.2	24.4	2.46
I26	07 Mar 2015	7	15.99	75.89	7.3	33.27	8.2	24.4	2.21
I26	07 Mar 2015	8	15.98	79.05	7.3	33.28	8.2	24.4	2.29
I26	07 Mar 2015	9	15.97	79.38	7.3	33.27	8.2	24.4	2.27
I26	11 Mar 2015	1	17.12	88.40	7.8	33.33	8.2	24.2	0.56
I26	11 Mar 2015	2	16.89	88.42	7.8	33.32	8.2	24.3	0.54
I26	11 Mar 2015	3	16.65	88.73	7.8	33.34	8.2	24.3	0.59
I26	11 Mar 2015	4	16.36	89.27	7.9	33.36	8.2	24.4	0.70
I26	11 Mar 2015	5	16.12	89.81	7.9	33.33	8.2	24.4	0.89
I26	11 Mar 2015	6	15.82	89.92	7.9	33.31	8.2	24.5	1.07
I26	11 Mar 2015	7	15.69	89.02	7.9	33.30	8.2	24.5	1.08
I26	11 Mar 2015	8	15.67	87.90	8.0	33.31	8.2	24.5	1.11
I26	11 Mar 2015	9	15.67	87.70	7.9	33.31	8.2	24.5	1.09
I26	17 Mar 2015	1	17.56	84.39	7.9	33.33	8.2	24.1	0.55
I26	17 Mar 2015	2	17.24	84.50	7.9	33.34	8.2	24.2	0.55
I26	17 Mar 2015	3	17.17	84.87	7.9	33.34	8.2	24.2	0.56
I26	17 Mar 2015	4	17.11	85.13	7.9	33.34	8.2	24.2	0.54
I26	17 Mar 2015	5	16.84	85.74	7.9	33.32	8.2	24.3	0.47
I26	17 Mar 2015	6	16.57	86.72	8.0	33.31	8.2	24.3	0.44
I26	17 Mar 2015	7	16.47	88.86	8.1	33.32	8.2	24.3	0.48
I26	17 Mar 2015	8	15.95	89.61	8.2	33.28	8.2	24.4	0.70
I26	17 Mar 2015	9	15.30	88.57	8.3	33.32	8.2	24.6	0.84
I26	23 Mar 2015	1	18.01	87.56	7.7	33.33	8.2	24.0	0.40
I26	23 Mar 2015	2	17.99	87.54	7.7	33.33	8.2	24.0	0.39
I26	23 Mar 2015	3	17.75	87.56	7.7	33.31	8.2	24.0	0.41
I26	23 Mar 2015	4	17.03	87.84	7.9	33.29	8.2	24.2	0.42
I26	23 Mar 2015	5	16.47	89.31	8.1	33.29	8.2	24.3	0.48
I26	23 Mar 2015	6	16.17	89.72	8.2	33.27	8.2	24.4	0.57
I26	23 Mar 2015	7	15.92	88.65	8.2	33.28	8.2	24.4	0.59
I26	23 Mar 2015	8	15.92	87.85	8.2	33.28	8.2	24.4	0.64
I26	23 Mar 2015	9	15.93	87.39	8.3	33.28	8.2	24.4	0.64
I26	26 Mar 2015	1	16.48	70.47	8.0	33.30	8.2	24.3	0.83
I26	26 Mar 2015	2	16.28	68.86	7.9	33.30	8.2	24.4	0.85
I26	26 Mar 2015	3	15.74	71.37	8.0	33.29	8.2	24.5	0.96
I26	26 Mar 2015	4	14.95	72.52	8.1	33.28	8.2	24.7	1.21
I26	26 Mar 2015	5	14.58	75.26	8.0	33.28	8.2	24.7	1.69
I26	26 Mar 2015	6	14.36	76.74	7.8	33.28	8.2	24.8	2.06
I26	26 Mar 2015	7	14.20	78.70	7.8	33.28	8.2	24.8	2.24
I26	26 Mar 2015	8	14.13	77.71	7.8	33.28	8.2	24.8	2.42
I26	26 Mar 2015	9	14.09	75.66	8.0	33.28	8.2	24.8	2.31
I32	07 Mar 2015	1	17.36	71.95	7.6	33.28	8.2	24.1	0.72
I32	07 Mar 2015	2	16.95	72.03	7.7	33.24	8.2	24.2	1.03
I32	07 Mar 2015	3	16.52	68.07	7.9	33.26	8.2	24.3	1.66
I32	07 Mar 2015	4	16.44	63.43	7.8	33.26	8.2	24.3	2.29
I32	07 Mar 2015	5	16.33	64.21	7.7	33.28	8.2	24.3	2.89
I32	07 Mar 2015	6	16.29	66.80	7.7	33.27	8.2	24.4	3.44

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I32	07 Mar 2015	7	16.22	66.08	7.7	33.26	8.2	24.4	4.43
I32	07 Mar 2015	8	16.18	59.09	7.6	33.26	8.2	24.4	4.91
I32	07 Mar 2015	9	16.13	52.57	7.5	33.24	8.2	24.4	5.28
I32	07 Mar 2015	10	16.08	40.20	7.5	33.24	8.2	24.4	5.31
I32	11 Mar 2015	1	17.01	82.91	7.6	33.31	8.2	24.2	0.90
I32	11 Mar 2015	2	16.71	83.11	7.6	33.30	8.2	24.3	1.07
I32	11 Mar 2015	3	16.39	81.19	7.7	33.30	8.2	24.4	1.25
I32	11 Mar 2015	4	16.12	78.88	7.8	33.29	8.2	24.4	1.33
I32	11 Mar 2015	5	15.86	83.25	7.9	33.30	8.2	24.5	1.51
I32	11 Mar 2015	6	15.71	85.36	7.9	33.29	8.2	24.5	1.72
I32	11 Mar 2015	7	15.54	85.76	7.8	33.30	8.2	24.5	1.94
I32	11 Mar 2015	8	15.47	83.92	7.8	33.30	8.2	24.6	1.99
I32	11 Mar 2015	9	15.45	82.14	7.8	33.30	8.2	24.6	2.03
I32	11 Mar 2015	10	15.44	79.25	7.9	33.30	8.2	24.6	2.05
I32	17 Mar 2015	1	17.32	86.15	7.8	33.34	8.2	24.2	0.38
I32	17 Mar 2015	2	17.13	85.86	7.8	33.35	8.2	24.2	0.43
I32	17 Mar 2015	3	17.12	84.85	7.9	33.35	8.2	24.2	0.46
I32	17 Mar 2015	4	17.13	85.17	7.8	33.35	8.2	24.2	0.45
I32	17 Mar 2015	5	17.00	84.56	7.8	33.34	8.2	24.2	0.50
I32	17 Mar 2015	6	16.93	84.26	7.8	33.34	8.2	24.3	0.58
I32	17 Mar 2015	7	16.92	83.47	7.8	33.34	8.2	24.3	0.66
I32	17 Mar 2015	8	16.90	83.36	7.9	33.34	8.2	24.3	0.72
I32	17 Mar 2015	9	16.83	83.06	8.0	33.33	8.2	24.3	0.87
I32	17 Mar 2015	10	16.48	82.69	8.0	33.31	8.2	24.3	1.22
I32	23 Mar 2015	1	17.28	79.57	7.8	33.32	8.2	24.2	0.53
I32	23 Mar 2015	2	17.28	79.15	7.8	33.32	8.2	24.2	0.55
I32	23 Mar 2015	3	17.24	78.09	7.9	33.32	8.2	24.2	0.61
I32	23 Mar 2015	4	17.15	77.57	7.8	33.31	8.2	24.2	0.79
I32	23 Mar 2015	5	16.96	74.69	7.9	33.31	8.2	24.2	1.03
I32	23 Mar 2015	6	16.85	70.68	7.9	33.30	8.2	24.2	1.26
I32	23 Mar 2015	7	16.41	69.98	7.9	33.28	8.2	24.3	1.58
I32	23 Mar 2015	8	16.07	69.68	8.0	33.30	8.2	24.4	1.74
I32	23 Mar 2015	9	15.98	70.17	8.0	33.29	8.2	24.4	1.82
I32	23 Mar 2015	10	15.84	70.56	8.0	33.29	8.2	24.5	1.89
I32	26 Mar 2015	1	15.71	59.16	7.6	33.28	8.2	24.5	1.08
I32	26 Mar 2015	2	15.66	59.45	7.6	33.30	8.2	24.5	1.07
I32	26 Mar 2015	3	15.37	58.86	7.6	33.29	8.2	24.6	1.20
I32	26 Mar 2015	4	15.08	57.79	7.5	33.29	8.2	24.6	1.45
I32	26 Mar 2015	5	14.11	57.75	7.4	33.28	8.2	24.8	2.07
I32	26 Mar 2015	6	13.47	56.29	7.3	33.29	8.1	25.0	3.01
I32	26 Mar 2015	7	13.42	55.96	7.1	33.29	8.1	25.0	3.58
I32	26 Mar 2015	8	13.38	54.94	7.1	33.29	8.1	25.0	3.71
I32	26 Mar 2015	9	13.32	55.15	7.0	33.29	8.1	25.0	3.59
I39	07 Mar 2015	1	16.94	83.06	8.3	33.28	8.3	24.2	0.48
I39	07 Mar 2015	2	16.66	82.68	8.3	33.27	8.3	24.3	0.54
I39	07 Mar 2015	3	16.52	81.77	8.4	33.28	8.3	24.3	0.62
I39	07 Mar 2015	4	16.49	81.88	8.3	33.27	8.3	24.3	0.75
I39	07 Mar 2015	5	16.48	81.52	8.3	33.27	8.3	24.3	0.87
I39	07 Mar 2015	6	16.48	81.64	8.3	33.27	8.3	24.3	0.99
I39	07 Mar 2015	7	16.46	81.38	8.3	33.27	8.3	24.3	1.19

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	07 Mar 2015	8	16.45	81.35	8.4	33.27	8.3	24.3	1.30
I39	07 Mar 2015	9	16.43	81.49	8.3	33.27	8.3	24.3	1.48
I39	07 Mar 2015	10	16.38	81.60	8.1	33.26	8.3	24.3	1.84
I39	07 Mar 2015	11	16.00	81.31	7.9	33.24	8.2	24.4	2.06
I39	07 Mar 2015	12	15.53	81.55	7.7	33.26	8.2	24.5	2.21
I39	07 Mar 2015	13	15.26	82.38	7.4	33.25	8.2	24.6	1.88
I39	07 Mar 2015	14	15.02	83.16	7.4	33.25	8.2	24.6	1.43
I39	07 Mar 2015	15	14.85	84.34	7.4	33.26	8.2	24.7	1.13
I39	07 Mar 2015	16	14.81	85.09	7.4	33.26	8.1	24.7	1.11
I39	07 Mar 2015	17	14.79	85.95	7.4	33.26	8.1	24.7	0.96
I39	07 Mar 2015	18	14.77	86.11	7.4	33.26	8.1	24.7	0.88
I39	11 Mar 2015	1	16.71	89.35	7.8	33.37	8.2	24.3	0.42
I39	11 Mar 2015	2	16.65	89.82	7.8	33.36	8.2	24.3	0.45
I39	11 Mar 2015	3	16.60	90.49	7.8	33.37	8.2	24.4	0.47
I39	11 Mar 2015	4	16.59	89.79	7.8	33.37	8.2	24.4	0.53
I39	11 Mar 2015	5	16.42	89.32	7.8	33.35	8.2	24.4	0.69
I39	11 Mar 2015	6	16.15	90.14	7.9	33.36	8.2	24.5	0.89
I39	11 Mar 2015	7	16.02	90.47	8.0	33.35	8.2	24.5	1.04
I39	11 Mar 2015	8	15.81	90.37	7.9	33.34	8.2	24.5	1.20
I39	11 Mar 2015	9	15.49	90.18	7.9	33.32	8.2	24.6	1.35
I39	11 Mar 2015	10	15.27	89.99	7.9	33.32	8.2	24.6	1.42
I39	11 Mar 2015	11	15.15	89.87	7.8	33.32	8.2	24.6	1.48
I39	11 Mar 2015	12	15.09	89.63	7.7	33.31	8.2	24.7	1.47
I39	11 Mar 2015	13	15.02	89.46	7.7	33.31	8.2	24.7	1.47
I39	11 Mar 2015	14	14.93	88.88	7.6	33.30	8.2	24.7	1.49
I39	11 Mar 2015	15	14.79	88.84	7.7	33.31	8.2	24.7	1.50
I39	11 Mar 2015	16	14.77	88.75	7.6	33.31	8.1	24.7	1.50
I39	11 Mar 2015	17	14.74	88.79	7.6	33.31	8.1	24.7	1.45
I39	11 Mar 2015	18	14.71	88.78	7.6	33.31	8.1	24.7	1.36
I39	17 Mar 2015	1	17.32	87.74	8.0	33.35	8.2	24.2	0.52
I39	17 Mar 2015	2	17.35	87.74	7.9	33.35	8.2	24.2	0.51
I39	17 Mar 2015	3	17.08	87.69	8.0	33.34	8.2	24.2	0.47
I39	17 Mar 2015	4	17.02	87.96	8.0	33.34	8.2	24.2	0.44
I39	17 Mar 2015	5	16.98	89.28	8.0	33.34	8.2	24.2	0.43
I39	17 Mar 2015	6	16.93	90.17	8.0	33.34	8.2	24.3	0.43
I39	17 Mar 2015	7	16.87	90.36	7.9	33.33	8.2	24.3	0.43
I39	17 Mar 2015	8	16.64	90.87	7.9	33.31	8.2	24.3	0.44
I39	17 Mar 2015	9	16.35	91.26	8.0	33.31	8.2	24.4	0.49
I39	17 Mar 2015	10	15.74	91.34	8.1	33.28	8.2	24.5	0.68
I39	17 Mar 2015	11	15.27	91.52	8.2	33.30	8.2	24.6	0.84
I39	17 Mar 2015	12	15.09	91.09	8.1	33.30	8.2	24.6	0.97
I39	17 Mar 2015	13	14.89	90.43	8.1	33.30	8.2	24.7	1.07
I39	17 Mar 2015	14	14.64	89.91	8.0	33.30	8.2	24.7	1.22
I39	17 Mar 2015	15	14.49	89.20	8.0	33.30	8.2	24.8	1.31
I39	17 Mar 2015	16	14.38	88.09	7.9	33.30	8.2	24.8	1.36
I39	17 Mar 2015	17	14.28	87.20	7.8	33.30	8.1	24.8	1.32
I39	17 Mar 2015	18	14.18	86.65	7.8	33.31	8.1	24.8	1.28
I39	23 Mar 2015	1	18.09	87.70	8.2	33.34	8.3	24.0	0.41
I39	23 Mar 2015	2	17.98	87.15	8.1	33.33	8.3	24.0	0.43
I39	23 Mar 2015	3	17.74	87.00	8.0	33.33	8.2	24.1	0.49
I39	23 Mar 2015	4	17.63	88.30	8.0	33.33	8.2	24.1	0.55
I39	23 Mar 2015	5	17.56	88.72	8.0	33.33	8.2	24.1	0.61

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I39	23 Mar 2015	6	17.54	89.03	7.9	33.32	8.2	24.1	0.66
I39	23 Mar 2015	7	17.52	89.00	8.0	33.33	8.2	24.1	0.70
I39	23 Mar 2015	8	17.51	89.02	8.0	33.33	8.2	24.1	0.77
I39	23 Mar 2015	9	17.49	89.20	8.0	33.32	8.2	24.1	0.86
I39	23 Mar 2015	10	17.48	89.15	8.0	33.33	8.2	24.1	0.97
I39	23 Mar 2015	11	17.48	89.18	8.0	33.32	8.2	24.1	0.96
I39	23 Mar 2015	12	17.33	89.17	7.9	33.31	8.2	24.1	0.92
I39	23 Mar 2015	13	16.91	89.41	8.1	33.28	8.2	24.2	0.92
I39	23 Mar 2015	14	16.58	89.72	8.1	33.29	8.2	24.3	0.90
I39	23 Mar 2015	15	16.14	90.13	8.1	33.26	8.2	24.4	0.85
I39	23 Mar 2015	16	15.56	90.47	8.0	33.26	8.2	24.5	0.77
I39	23 Mar 2015	17	15.21	90.57	8.1	33.27	8.2	24.6	0.64
I39	23 Mar 2015	18	15.17	89.89	8.0	33.27	8.2	24.6	0.63
I39	26 Mar 2015	1	17.74	85.84	7.9	33.33	8.2	24.1	0.47
I39	26 Mar 2015	2	17.57	85.78	7.9	33.34	8.2	24.1	0.52
I39	26 Mar 2015	3	17.48	85.47	8.0	33.34	8.2	24.1	0.58
I39	26 Mar 2015	4	17.46	85.21	7.9	33.34	8.2	24.1	0.66
I39	26 Mar 2015	5	17.45	85.25	7.9	33.34	8.2	24.1	0.74
I39	26 Mar 2015	6	17.42	85.47	7.8	33.34	8.2	24.1	0.82
I39	26 Mar 2015	7	17.35	85.73	8.0	33.33	8.2	24.2	0.92
I39	26 Mar 2015	8	17.26	86.08	8.0	33.33	8.2	24.2	0.92
I39	26 Mar 2015	9	17.14	86.30	8.0	33.32	8.2	24.2	0.97
I39	26 Mar 2015	10	16.67	86.58	8.1	33.30	8.2	24.3	1.18
I39	26 Mar 2015	11	16.04	87.11	8.1	33.29	8.2	24.4	1.42
I39	26 Mar 2015	12	15.62	85.46	7.8	33.27	8.2	24.5	1.79
I39	26 Mar 2015	13	14.32	82.86	7.6	33.24	8.2	24.8	2.04
I39	26 Mar 2015	14	13.41	80.31	7.4	33.28	8.1	25.0	2.01
I39	26 Mar 2015	15	12.95	80.17	6.9	33.28	8.1	25.1	1.99
I39	26 Mar 2015	16	12.53	78.94	6.6	33.29	8.1	25.2	1.84
I39	26 Mar 2015	17	12.29	78.94	6.5	33.32	8.1	25.2	1.64
I39	26 Mar 2015	18	12.26	78.70	6.5	33.32	8.0	25.2	1.66
I40	07 Mar 2015	1	16.98	75.48	7.2	33.16	8.2	24.1	0.58
I40	07 Mar 2015	2	16.86	75.56	7.8	33.27	8.2	24.2	0.79
I40	07 Mar 2015	3	16.54	75.61	8.0	33.40	8.2	24.4	1.19
I40	07 Mar 2015	4	16.32	75.95	7.9	33.34	8.2	24.4	1.21
I40	07 Mar 2015	5	16.25	74.79	8.0	33.27	8.2	24.4	1.18
I40	07 Mar 2015	6	16.17	71.97	8.0	33.27	8.2	24.4	1.33
I40	07 Mar 2015	7	16.09	68.68	8.0	33.27	8.2	24.4	1.58
I40	07 Mar 2015	8	16.03	63.53	7.8	33.25	8.2	24.4	3.20
I40	07 Mar 2015	9	15.95	61.07	7.7	33.25	8.2	24.4	4.60
I40	07 Mar 2015	10	15.70	59.22	7.4	33.27	8.2	24.5	5.05
I40	11 Mar 2015	1	16.56	60.83	7.8	33.01	8.2	24.1	2.65
I40	11 Mar 2015	2	16.65	60.15	7.7	33.23	8.2	24.2	2.66
I40	11 Mar 2015	3	16.63	60.90	7.5	33.26	8.2	24.3	2.49
I40	11 Mar 2015	4	15.98	68.18	7.2	33.26	8.2	24.4	3.09
I40	11 Mar 2015	5	15.29	67.93	6.8	33.26	8.1	24.6	3.57
I40	11 Mar 2015	6	15.10	68.44	6.6	33.26	8.1	24.6	4.07
I40	11 Mar 2015	7	15.00	63.92	6.4	33.26	8.1	24.6	4.62
I40	11 Mar 2015	8	14.90	57.87	6.3	33.26	8.1	24.7	4.64
I40	11 Mar 2015	9	14.85	53.49	6.2	33.26	8.1	24.7	4.79
I40	11 Mar 2015	10	14.86	43.94	6.1	33.27	8.1	24.7	5.28

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	17 Mar 2015	1	17.35	90.01	7.7	33.40	8.2	24.2	0.31
I40	17 Mar 2015	2	17.39	90.12	7.7	33.35	8.2	24.2	0.30
I40	17 Mar 2015	3	17.06	90.00	7.7	33.37	8.2	24.2	0.32
I40	17 Mar 2015	4	16.90	88.93	7.7	33.35	8.2	24.3	0.38
I40	17 Mar 2015	5	16.82	87.23	7.7	33.35	8.2	24.3	0.43
I40	17 Mar 2015	6	16.72	85.77	7.7	33.34	8.2	24.3	0.55
I40	17 Mar 2015	7	16.65	82.19	7.7	33.34	8.2	24.3	0.91
I40	17 Mar 2015	8	16.49	70.88	7.6	33.34	8.2	24.4	1.51
I40	17 Mar 2015	9	15.61	59.63	7.6	33.34	8.2	24.6	2.56
I40	17 Mar 2015	10	15.06	50.37	7.6	33.34	8.2	24.7	3.62
I40	23 Mar 2015	1	17.77	69.57	7.7	33.33	8.2	24.0	0.72
I40	23 Mar 2015	2	17.68	69.61	7.7	33.32	8.2	24.1	0.75
I40	23 Mar 2015	3	17.56	69.55	7.8	33.32	8.2	24.1	0.86
I40	23 Mar 2015	4	17.43	68.75	7.8	33.31	8.2	24.1	1.01
I40	23 Mar 2015	5	16.87	68.76	8.0	33.24	8.2	24.2	1.13
I40	23 Mar 2015	6	15.80	69.12	8.1	33.26	8.2	24.5	1.19
I40	23 Mar 2015	7	15.46	75.89	8.0	33.26	8.2	24.5	1.74
I40	23 Mar 2015	8	15.39	77.78	8.0	33.26	8.2	24.5	2.37
I40	23 Mar 2015	9	15.36	65.99	7.9	33.26	8.2	24.5	2.88
I40	23 Mar 2015	10	15.28	57.33	7.9	33.25	8.2	24.6	2.91
I40	26 Mar 2015	1	17.42	73.55	7.8	33.31	8.2	24.1	0.44
I40	26 Mar 2015	2	17.28	73.35	7.8	33.32	8.2	24.2	0.47
I40	26 Mar 2015	3	16.99	73.19	7.8	33.31	8.2	24.2	0.56
I40	26 Mar 2015	4	16.50	72.93	7.6	33.31	8.2	24.3	0.70
I40	26 Mar 2015	5	14.65	71.42	7.7	33.26	8.2	24.7	1.19
I40	26 Mar 2015	6	14.24	73.72	7.7	33.26	8.2	24.8	1.94
I40	26 Mar 2015	7	14.10	71.83	7.6	33.26	8.2	24.8	2.40
I40	26 Mar 2015	8	13.79	63.77	7.4	33.26	8.1	24.9	2.58
I40	26 Mar 2015	9	13.55	63.20	7.0	33.27	8.1	24.9	3.78
I40	26 Mar 2015	10	13.47	62.44	6.8	33.26	8.1	25.0	4.43

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
I19	07 Mar 2015	6	ZV	LAB DUPLICATE	4e	<2	<2
I19	11 Mar 2015	6	SR	LAB DUPLICATE	4e	<2	<2
I19	17 Mar 2015	6	AR	LAB DUPLICATE	ns	ns	<2
I19	17 Mar 2015	6	JT	LAB DUPLICATE	<2	<2	ns
I19	23 Mar 2015	6	AR	LAB DUPLICATE	<2	<2	<2
I19	26 Mar 2015	6	AR	LAB DUPLICATE	<20	<2	ns
I19	26 Mar 2015	6	LMA	LAB DUPLICATE	ns	ns	<2
I40	07 Mar 2015	6	ZV	LAB DUPLICATE	380e	68	<2
I40	11 Mar 2015	6	JT	LAB DUPLICATE	20e	2e	2e
I40	17 Mar 2015	6	AR	LAB DUPLICATE	ns	ns	4e
I40	17 Mar 2015	6	JT	LAB DUPLICATE	2e	<2	ns
I40	23 Mar 2015	6	AR	LAB DUPLICATE	<2	<2	<2
I40	26 Mar 2015	6	AR	LAB DUPLICATE	<20	<2	ns
I40	26 Mar 2015	6	LMA	LAB DUPLICATE	ns	ns	10e
S12	03 Mar 2015		SR	FIELD DUPLICATE	>16000	3200e	5800
S12	03 Mar 2015		SR	LAB DUPLICATE	>16000	3400e	6400
S12	10 Mar 2015		SR	FIELD DUPLICATE	<20	4e	<2
S12	10 Mar 2015		SR	LAB DUPLICATE	<20	2e	4e
S12	17 Mar 2015		JT	FIELD DUPLICATE	40e	26e	14e
S12	17 Mar 2015		JT	LAB DUPLICATE	80e	28e	12e
S12	24 Mar 2015		LMA	FIELD DUPLICATE	<20	<2	<2
S12	24 Mar 2015		LMA	LAB DUPLICATE	<20	<2	<2
S12	30 Mar 2015		LMA	FIELD DUPLICATE	<20	16e	2e
S12	30 Mar 2015		LMA	LAB DUPLICATE	<20	14e	2e

ns = not sampled

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