



Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall

(South Bay Water Reclamation Plant)

NPDES Permit No. CA0109045

June 2015



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



THE CITY OF SAN DIEGO

July 31, 2015

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

Attention: POTW Compliance Unit

Dear Mr. Gibson:

Enclosed is the June 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:asb

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

INTRODUCTION

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 Order No. R9-2013-0006 superseded Order No. R9-2006-0067 effective April 4, 2013.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

MATERIALS AND METHODS

Shore Stations

Water quality monitoring was conducted at 11 stations located along the shore from Playa Blanca, Mexico to Coronado, USA (see station locations map). Three sites are located south of the international border (stations S0, S2, S3), while eight sites are in the United States (stations S4–S6 and S8–12).

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

Kelp Bed Stations

Seven kelp bed stations (I19, I24, I25, I26, I32, I39, I40) were sampled according to NPDES permit specifications in order to monitor water quality compliance within a kelp bed-suitable area. The seven kelp stations were selected based on their proximity to suitable substrates for the Imperial Beach kelp bed (see station locations map); however, this kelp bed has been historically transient and variable in terms of size and density. Thus, these seven stations are only occasionally located within an area where kelp is actually found. Six stations (I19, I24, I25, I26, I32, I40) are located along the 9-m depth contour, and one (I39) is located along the 18-m depth contour.

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

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

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

- o 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.
- o During June, one of the eight shore stations located north of the border was out of compliance with various California Ocean Plan (Ocean Plan) water contact standards (see below); these standards do not apply to stations located in Mexican waters.
 - The 30-day geometric mean standard for total coliforms was exceeded at station S5 on June 1.
 - The 30-day geometric mean standard for *Enterococcus* was exceeded at station

S5 on June 1 through June 19.

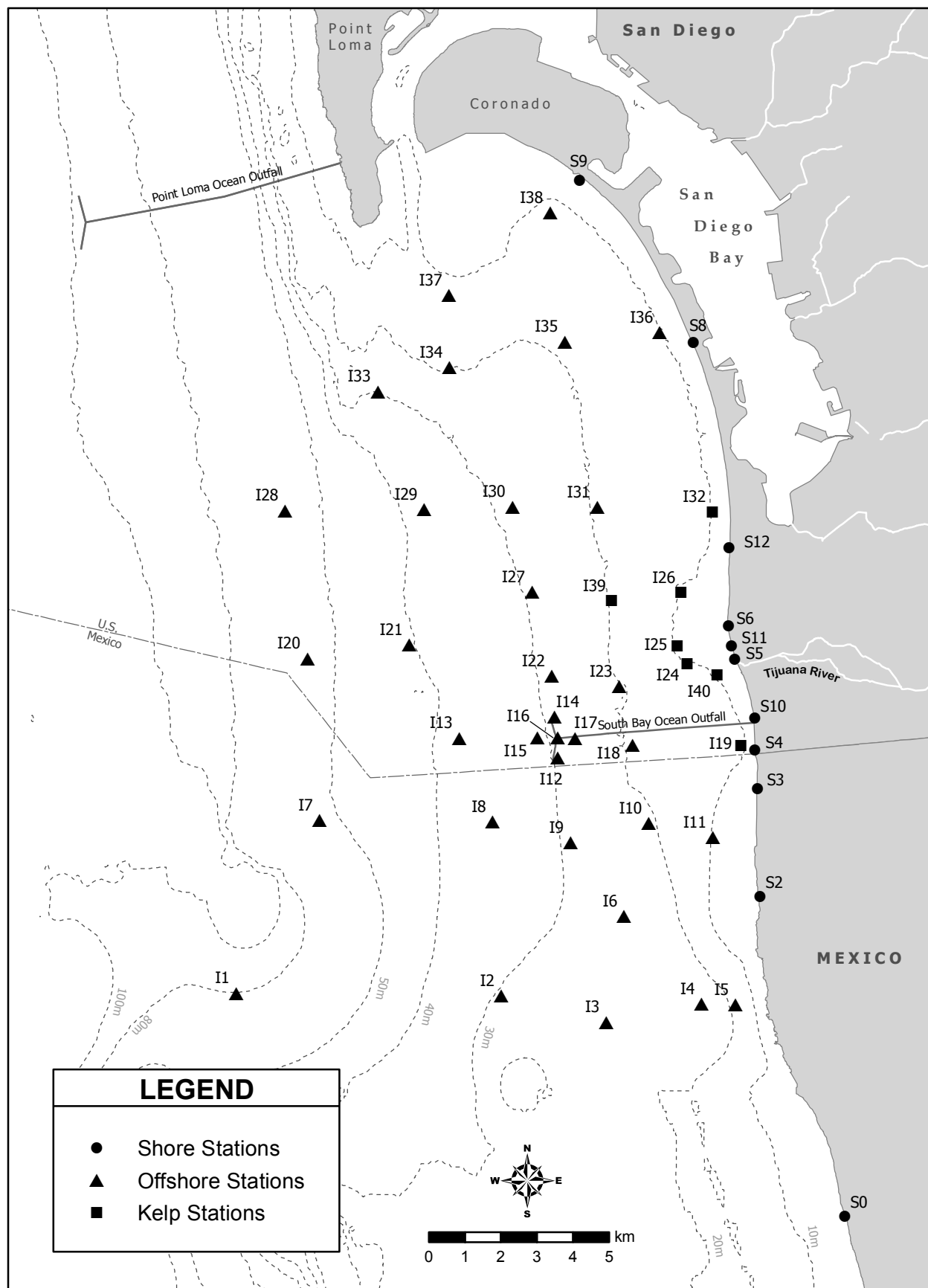
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in the seawater sample collected at station S0 on June 16.
- 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 June included: water flowing from a storm drain at stations S0 and S3, and foam present at stations S2, S8, S9, and S10. 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 on June 6, 10, 18, and 22. The sampling scheduled for June 30 was not completed due to mechanical problems with the boat.
- During June, all seven of these stations were in compliance with all Ocean Plan standards.
- Water column temperatures ranged from 11.4 to 20.9°C. The difference between surface and bottom waters ranged from approximately 1.3 to 5.9°C, indicating the water column was stratified at these sites.
- Chlorophyll *a* concentrations ranged from 0.38 to 18.97 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 June at the offshore stations. The next quarterly sampling is scheduled for August 2015.



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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 Jun 2015	20*	1024	108*	18*	11*	63	319	8*
02 Jun 2015	20	626	77	18	13	52	201	9
03 Jun 2015	20	626	77	18	13	52	201	9
04 Jun 2015	20*	814	82*	13*	11*	63	256	6*
05 Jun 2015	20*	814	82*	13*	11*	63	256	6*
06 Jun 2015	20*	814	82*	13*	11*	63	256	6*
07 Jun 2015	20*	814	82*	13*	11*	63	256	6*
08 Jun 2015	20*	814	82*	13*	11*	63	256	6*
09 Jun 2015	15	512	62	14	13	35	167	8
10 Jun 2015	15	512	62	14	13	35	167	8
11 Jun 2015	14*	313	82*	24*	11*	25	256	11*
12 Jun 2015	14*	313	82*	24*	11*	25	256	11*
13 Jun 2015	14*	441	82*	24*	11*	25	256	11*
14 Jun 2015	14*	441	82*	24*	11*	25	256	11*
15 Jun 2015	14*	441	82*	24*	11*	25	256	11*
16 Jun 2015	19	284	62	23	13	24	167	13
17 Jun 2015	19	284	62	23	13	24	167	13
18 Jun 2015	19*	145	20*	20*	11*	7	67	11*
19 Jun 2015	19*	145	20*	20*	11*	7	67	11*
20 Jun 2015	19*	57	20*	20*	11*	6*	20*	11*
21 Jun 2015	19*	26*	20*	20*	11*	6*	20*	11*
22 Jun 2015	19*	26*	20*	20*	11*	6*	20*	11*
23 Jun 2015	12	25	13	20	13	5	20	13
24 Jun 2015	12	25	13	20	13	5	20	13
25 Jun 2015	11*	20*	11*	20*	20*	6*	20*	20*
26 Jun 2015	11*	20*	11*	20*	20*	6*	20*	20*
27 Jun 2015	11*	20*	11*	20*	20*	6*	20*	20*
28 Jun 2015	11*	20*	11*	20*	20*	6*	20*	20*
29 Jun 2015	11*	20*	11*	20*	20*	6*	20*	20*
30 Jun 2015	8	20	13	20	20	5	20	32

* 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 Jun 2015	3*	171	7*	2*	2*	9	23	3*
02 Jun 2015	3	98	5	2	2	7	16	3
03 Jun 2015	3	98	5	2	2	7	16	3
04 Jun 2015	3*	171	7*	2*	2*	9	23	3*
05 Jun 2015	3*	171	7*	2*	2*	9	23	3*
06 Jun 2015	3*	171	7*	2*	2*	9	23	3*
07 Jun 2015	3*	171	7*	2*	2*	9	23	3*
08 Jun 2015	3*	171	7*	2*	2*	9	23	3*
09 Jun 2015	3	98	5	2	3	7	16	3
10 Jun 2015	3	98	5	2	3	7	16	3
11 Jun 2015	3*	61	7*	2*	3*	6	18	3*
12 Jun 2015	3*	61	7*	2*	3*	6	18	3*
13 Jun 2015	3*	73	7*	2*	3*	6	18	3*
14 Jun 2015	3*	73	7*	2*	3*	6	18	3*
15 Jun 2015	3*	73	7*	2*	3*	6	18	3*
16 Jun 2015	3	51	7	2	3	5	18	3
17 Jun 2015	3	51	7	2	3	5	18	3
18 Jun 2015	2*	24	3*	2*	3*	2	9	2*
19 Jun 2015	2*	24	3*	2*	3*	2	9	2*
20 Jun 2015	2*	8	3*	2*	3*	2*	4	2*
21 Jun 2015	2*	4*	3*	2*	3*	2*	5*	2*
22 Jun 2015	2*	4*	3*	2*	3*	2*	5*	2*
23 Jun 2015	2	4	2	2	3	2	4	3
24 Jun 2015	2	4	2	2	3	2	4	3
25 Jun 2015	2*	3*	3*	2*	3*	2*	4*	3*
26 Jun 2015	2*	3*	3*	2*	3*	2*	4*	3*
27 Jun 2015	2*	3*	3*	2*	3*	2*	4*	3*
28 Jun 2015	2*	3*	3*	2*	3*	2*	4*	3*
29 Jun 2015	2*	3*	3*	2*	3*	2*	4*	3*
30 Jun 2015	2	2	3	2	3	2	4	4

* 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 Jun 2015	2*	99	7*	3*	2*	4*	24	6*
02 Jun 2015	2	76	7	3	3	3	16	7
03 Jun 2015	2	76	7	3	3	3	16	7
04 Jun 2015	2*	97	10*	3*	3*	4*	18	6*
05 Jun 2015	2*	97	10*	3*	3*	4*	18	6*
06 Jun 2015	2*	97	10*	3*	3*	4*	18	6*
07 Jun 2015	2*	97	10*	3*	3*	4*	18	6*
08 Jun 2015	2*	97	10*	3*	3*	4*	18	6*
09 Jun 2015	2	77	7	2	3	3	12	5
10 Jun 2015	2	77	7	2	3	3	12	5
11 Jun 2015	2*	64	10*	3*	3*	4*	18	6*
12 Jun 2015	2*	64	10*	3*	3*	4*	18	6*
13 Jun 2015	2*	91	10*	3*	3*	4*	18	6*
14 Jun 2015	2*	91	10*	3*	3*	4*	18	6*
15 Jun 2015	2*	91	10*	3*	3*	4*	18	6*
16 Jun 2015	3	64	9	2	4	4	16	5
17 Jun 2015	3	64	9	2	4	4	16	5
18 Jun 2015	3*	41	7*	2*	5*	2*	9	5*
19 Jun 2015	3*	41	7*	2*	5*	2*	9	5*
20 Jun 2015	3*	24	7*	2*	5*	2*	6*	5*
21 Jun 2015	3*	19*	7*	2*	5*	2*	6*	5*
22 Jun 2015	3*	19*	7*	2*	5*	2*	6*	5*
23 Jun 2015	3	15	5	2	4	2	5	4
24 Jun 2015	3	15	5	2	4	2	5	4
25 Jun 2015	3*	10*	4*	3*	5*	2*	3*	3*
26 Jun 2015	3*	10*	4*	3*	5*	2*	3*	3*
27 Jun 2015	3*	10*	4*	3*	5*	2*	3*	3*
28 Jun 2015	3*	10*	4*	3*	5*	2*	3*	3*
29 Jun 2015	3*	10*	4*	3*	5*	2*	3*	3*
30 Jun 2015	3	7	5	2	5	2	3	4

* 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
02 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
16 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
23 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Jun 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
02 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
16 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
23 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Jun 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
02 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
16 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
23 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Jun 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
02 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
09 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
16 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
23 Jun 2015	IC	IC	IC	IC	IC	IC	IC	IC
30 Jun 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	02 Jun 2015	1037	2e	<2	94	1.000
S0	09 Jun 2015	1030	6e	<2	<2	0.333
S0	16 Jun 2015	1110	180000e	400	1200	0.002
S0	23 Jun 2015	1050	<20	<2	<2	0.100
S0	30 Jun 2015	1130	<20	6e	<2	0.300
S2	02 Jun 2015	1135	<20	<2	<2	0.100
S2	09 Jun 2015	1058	6e	<2	<2	0.333
S2	16 Jun 2015	1020	<20	<2	6e	0.100
S2	23 Jun 2015	903	20e	<2	20e	0.100
S2	30 Jun 2015	1035	<20	<2	<2	0.100
S3	02 Jun 2015	1115	<20	<2	<2	0.100
S3	09 Jun 2015	1123	<2	<2	<2	1.000
S3	16 Jun 2015	930	<20	<2	4e	0.100
S3	23 Jun 2015	1008	<2	2e	<2	1.000
S3	30 Jun 2015	940	140e	<2	2e	0.014
S4	02 Jun 2015	1114	<20	<2	2e	0.100
S4	09 Jun 2015	1126	4e	<2	<2	0.500
S4	16 Jun 2015	1044	80e	<2	10e	0.025
S4	23 Jun 2015	1129	<2	2e	2e	1.000
S4	30 Jun 2015	1049	<2	<2	<2	1.000
S5	02 Jun 2015	942	<20	2e	12e	0.100
S5	09 Jun 2015	943	<20	2e	16e	0.100
S5	16 Jun 2015	915	<20	6e	8e	0.300
S5	23 Jun 2015	946	<20	<2	6e	0.100
S5	30 Jun 2015	906	<20	2e	2e	0.100
S6	02 Jun 2015	955	<20	<2	8e	0.100
S6	09 Jun 2015	957	<20	<2	2e	0.100
S6	16 Jun 2015	926	<20	6e	6e	0.300
S6	23 Jun 2015	1000	<2	<2	2e	1.000
S6	30 Jun 2015	919	<20	8e	16e	0.400
S8	02 Jun 2015	825	<20	<2	<2	0.100
S8	09 Jun 2015	829	<20	<2	<2	0.100
S8	16 Jun 2015	755	<20	<2	<2	0.100
S8	23 Jun 2015	836	<20	<2	6e	0.100
S8	30 Jun 2015	752	<20	<2	<2	0.100
S9	02 Jun 2015	806	<20	2e	8e	0.100
S9	09 Jun 2015	809	<20	8e	<2	0.400
S9	16 Jun 2015	739	<20	<2	16e	0.100
S9	23 Jun 2015	813	20e	<2	<2	0.100
S9	30 Jun 2015	733	<20	<2	4e	0.100
S10	02 Jun 2015	1118	<20	2e	<2	0.100

Station	Date	Time	Total	Fecal	Entero	F:T
S10	09 Jun 2015	1134	<2	<2	<2	1.000
S10	16 Jun 2015	1048	<20	2e	4e	0.100
S10	23 Jun 2015	1136	<2	<2	2e	1.000
S10	30 Jun 2015	1055	2e	<2	<2	1.000
S11	02 Jun 2015	950	<20	<2	<2	0.100
S11	09 Jun 2015	952	<20	<2	2e	0.100
S11	16 Jun 2015	922	20e	<20	8e	1.000
S11	23 Jun 2015	955	<20	<2	<2	0.100
S11	30 Jun 2015	913	20e	4e	6e	0.200
S12	02 Jun 2015	1004	<20	<2	14e	0.100
S12	09 Jun 2015	1007	20e	2e	<2	0.100
S12	16 Jun 2015	935	<20	2e	<2	0.100
S12	23 Jun 2015	1013	20e	6e	<2	0.300
S12	30 Jun 2015	929	200e	22e	16e	0.110

Table 2.9

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

Station	Date	Parameter	Value
S0	02 Jun 2015	Arrive Time	1037
S0	02 Jun 2015	Weather	Sunny
S0	02 Jun 2015	Wind Speed (kts)	3.2
S0	02 Jun 2015	Wind Dir	NW
S0	02 Jun 2015	Animal Life	3 Dogs; >20 Seagulls
S0	02 Jun 2015	Floatables	None
S0	02 Jun 2015	Water Color	Green
S0	02 Jun 2015	Current Direction	S
S0	02 Jun 2015	Water Temp (C)	16.8
S0	02 Jun 2015	Wave Height Low (ft)	2
S0	02 Jun 2015	High Tide (ft)	3.8
S0	02 Jun 2015	High Tide Time	1011
S0	02 Jun 2015	Low Tide (ft)	1.6
S0	02 Jun 2015	Low Tide Time	1518
S0	02 Jun 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S0	09 Jun 2015	Arrive Time	1030
S0	09 Jun 2015	Weather	Cloudy
S0	09 Jun 2015	Wind Speed (kts)	1.2
S0	09 Jun 2015	Wind Dir	NE
S0	09 Jun 2015	Animal Life	None
S0	09 Jun 2015	Floatables	None
S0	09 Jun 2015	Water Color	Green
S0	09 Jun 2015	Current Direction	N
S0	09 Jun 2015	Water Temp (C)	16.5
S0	09 Jun 2015	Wave Height Low (ft)	4
S0	09 Jun 2015	High Tide (ft)	4.6
S0	09 Jun 2015	High Tide Time	1623
S0	09 Jun 2015	Low Tide (ft)	0.3
S0	09 Jun 2015	Low Tide Time	937
S0	09 Jun 2015	Comments	Kelp; 2 Persons; Water clear; No flow from stormdrain
S0	16 Jun 2015	Arrive Time	1110
S0	16 Jun 2015	Weather	Foggy
S0	16 Jun 2015	Wind Speed (kts)	3.8
S0	16 Jun 2015	Wind Dir	NW
S0	16 Jun 2015	Animal Life	5 Shorebirds; 1 Dolphin
S0	16 Jun 2015	Floatables	None
S0	16 Jun 2015	Water Color	Green
S0	16 Jun 2015	Current Direction	N

Station	Date	Parameter	Value
S0	16 Jun 2015	Water Temp (C)	19
S0	16 Jun 2015	Wave Height Low (ft)	3
S0	16 Jun 2015	High Tide (ft)	4
S0	16 Jun 2015	High Tide Time	1020
S0	16 Jun 2015	Low Tide (ft)	1.6
S0	16 Jun 2015	Low Tide Time	1528
S0	16 Jun 2015	Comments	Kelp; 2 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S0	23 Jun 2015	Arrive Time	1050
S0	23 Jun 2015	Weather	Sunny
S0	23 Jun 2015	Wind Speed (kts)	2.4
S0	23 Jun 2015	Wind Dir	NE
S0	23 Jun 2015	Animal Life	5 Shorebirds
S0	23 Jun 2015	Floatables	None
S0	23 Jun 2015	Water Color	Green
S0	23 Jun 2015	Current Direction	N
S0	23 Jun 2015	Water Temp (C)	20
S0	23 Jun 2015	Wave Height Low (ft)	4
S0	23 Jun 2015	High Tide (ft)	4.1
S0	23 Jun 2015	High Tide Time	1551
S0	23 Jun 2015	Low Tide (ft)	1
S0	23 Jun 2015	Low Tide Time	850
S0	23 Jun 2015	Comments	Kelp; Water clear; Flow from stormdrain 0.5 L/sec
S0	30 Jun 2015	Arrive Time	1130
S0	30 Jun 2015	Weather	Sunny
S0	30 Jun 2015	Wind Speed (kts)	2.5
S0	30 Jun 2015	Wind Dir	NE
S0	30 Jun 2015	Animal Life	1 Dolphin; >10 Seagulls
S0	30 Jun 2015	Floatables	None
S0	30 Jun 2015	Water Color	Green
S0	30 Jun 2015	Current Direction	N
S0	30 Jun 2015	Water Temp (C)	20
S0	30 Jun 2015	Wave Height Low (ft)	3
S0	30 Jun 2015	High Tide (ft)	3.8
S0	30 Jun 2015	High Tide Time	917
S0	30 Jun 2015	Low Tide (ft)	1.7
S0	30 Jun 2015	Low Tide Time	1421
S0	30 Jun 2015	Comments	Kelp; 3 Persons; Water clear; Flow from stormdrain 0.5 L/sec
S2	02 Jun 2015	Arrive Time	1135
S2	02 Jun 2015	Weather	Sunny
S2	02 Jun 2015	Wind Speed (kts)	3.8
S2	02 Jun 2015	Wind Dir	NW

Station	Date	Parameter	Value
S2	02 Jun 2015	Animal Life	6 Dogs; >20 Seagulls
S2	02 Jun 2015	Floatables	None
S2	02 Jun 2015	Water Color	Green
S2	02 Jun 2015	Current Direction	S
S2	02 Jun 2015	Water Temp (C)	16.3
S2	02 Jun 2015	Wave Height Low (ft)	2
S2	02 Jun 2015	High Tide (ft)	3.8
S2	02 Jun 2015	High Tide Time	1011
S2	02 Jun 2015	Low Tide (ft)	1.6
S2	02 Jun 2015	Low Tide Time	1518
S2	02 Jun 2015	Comments	Kelp; Water turbid; No flow from stormdrain
S2	09 Jun 2015	Arrive Time	1058
S2	09 Jun 2015	Weather	Cloudy
S2	09 Jun 2015	Wind Speed (kts)	1.4
S2	09 Jun 2015	Wind Dir	NE
S2	09 Jun 2015	Animal Life	5 Shorebirds; 2 Dogs
S2	09 Jun 2015	Floatables	None
S2	09 Jun 2015	Water Color	Green
S2	09 Jun 2015	Current Direction	N
S2	09 Jun 2015	Water Temp (C)	19
S2	09 Jun 2015	Wave Height Low (ft)	3
S2	09 Jun 2015	High Tide (ft)	4.6
S2	09 Jun 2015	High Tide Time	1623
S2	09 Jun 2015	Low Tide (ft)	0.3
S2	09 Jun 2015	Low Tide Time	937
S2	09 Jun 2015	Comments	Kelp; 3 Persons; Water clear; No flow from stormdrain; Foam on the shore
S2	16 Jun 2015	Arrive Time	1020
S2	16 Jun 2015	Weather	Foggy
S2	16 Jun 2015	Wind Speed (kts)	5.2
S2	16 Jun 2015	Wind Dir	NW
S2	16 Jun 2015	Animal Life	1 Dog
S2	16 Jun 2015	Floatables	None
S2	16 Jun 2015	Water Color	Green
S2	16 Jun 2015	Current Direction	N
S2	16 Jun 2015	Water Temp (C)	19
S2	16 Jun 2015	Wave Height Low (ft)	3
S2	16 Jun 2015	High Tide (ft)	6.3
S2	16 Jun 2015	High Tide Time	2133
S2	16 Jun 2015	Low Tide (ft)	1.6
S2	16 Jun 2015	Low Tide Time	1528
S2	16 Jun 2015	Comments	Kelp; 5 Persons; Water clear; No flow from stormdrain
S2	23 Jun 2015	Arrive Time	903

Station	Date	Parameter	Value
S2	23 Jun 2015	Weather	Cloudy
S2	23 Jun 2015	Wind Speed (kts)	1.4
S2	23 Jun 2015	Wind Dir	NE
S2	23 Jun 2015	Animal Life	5 Shorebirds; 1 Dog
S2	23 Jun 2015	Floatables	None
S2	23 Jun 2015	Water Color	Green
S2	23 Jun 2015	Current Direction	N
S2	23 Jun 2015	Water Temp (C)	20
S2	23 Jun 2015	Wave Height Low (ft)	3
S2	23 Jun 2015	High Tide (ft)	4.1
S2	23 Jun 2015	High Tide Time	1551
S2	23 Jun 2015	Low Tide (ft)	1
S2	23 Jun 2015	Low Tide Time	850
S2	23 Jun 2015	Comments	Kelp; Water clear; No flow from stormdrain
S2	30 Jun 2015	Arrive Time	1035
S2	30 Jun 2015	Weather	Sunny
S2	30 Jun 2015	Wind Speed (kts)	3.6
S2	30 Jun 2015	Wind Dir	NE
S2	30 Jun 2015	Animal Life	>5 Shorebirds; 2 Dogs
S2	30 Jun 2015	Floatables	None
S2	30 Jun 2015	Water Color	Green
S2	30 Jun 2015	Current Direction	N
S2	30 Jun 2015	Water Temp (C)	21
S2	30 Jun 2015	Wave Height Low (ft)	3
S2	30 Jun 2015	High Tide (ft)	3.8
S2	30 Jun 2015	High Tide Time	917
S2	30 Jun 2015	Low Tide (ft)	1.7
S2	30 Jun 2015	Low Tide Time	1421
S2	30 Jun 2015	Comments	Kelp; >10 Persons; 5 Surfers; Water clear; No flow from stormdrain
S3	02 Jun 2015	Arrive Time	1115
S3	02 Jun 2015	Weather	Sunny
S3	02 Jun 2015	Wind Speed (kts)	3.8
S3	02 Jun 2015	Wind Dir	NW
S3	02 Jun 2015	Animal Life	5 Dogs; >20 Seagulls
S3	02 Jun 2015	Floatables	None
S3	02 Jun 2015	Water Color	Green
S3	02 Jun 2015	Current Direction	S
S3	02 Jun 2015	Water Temp (C)	16.7
S3	02 Jun 2015	Wave Height Low (ft)	2
S3	02 Jun 2015	High Tide (ft)	3.8
S3	02 Jun 2015	High Tide Time	1011
S3	02 Jun 2015	Low Tide (ft)	1.6
S3	02 Jun 2015	Low Tide Time	1518

Station	Date	Parameter	Value
S3	02 Jun 2015	Comments	Kelp; Water turbid; Flow from stormdrain 0.5 L/sec
S3	09 Jun 2015	Arrive Time	1123
S3	09 Jun 2015	Weather	Cloudy
S3	09 Jun 2015	Wind Speed (kts)	1.6
S3	09 Jun 2015	Wind Dir	NE
S3	09 Jun 2015	Animal Life	1 Dog
S3	09 Jun 2015	Floatables	None
S3	09 Jun 2015	Water Color	Green
S3	09 Jun 2015	Current Direction	N
S3	09 Jun 2015	Water Temp (C)	19
S3	09 Jun 2015	Wave Height Low (ft)	3
S3	09 Jun 2015	High Tide (ft)	4.6
S3	09 Jun 2015	High Tide Time	1623
S3	09 Jun 2015	Low Tide (ft)	0.3
S3	09 Jun 2015	Low Tide Time	937
S3	09 Jun 2015	Comments	Kelp; 6 Persons; Water clear; No flow from stormdrain
S3	16 Jun 2015	Arrive Time	930
S3	16 Jun 2015	Weather	Foggy
S3	16 Jun 2015	Wind Speed (kts)	5.4
S3	16 Jun 2015	Wind Dir	NW
S3	16 Jun 2015	Animal Life	10 Shorebirds; 2 Dogs
S3	16 Jun 2015	Floatables	None
S3	16 Jun 2015	Water Color	Green
S3	16 Jun 2015	Current Direction	N
S3	16 Jun 2015	Water Temp (C)	18.5
S3	16 Jun 2015	Wave Height Low (ft)	3
S3	16 Jun 2015	High Tide (ft)	4
S3	16 Jun 2015	High Tide Time	1020
S3	16 Jun 2015	Low Tide (ft)	-1.1
S3	16 Jun 2015	Low Tide Time	404
S3	16 Jun 2015	Comments	Kelp; >10 Persons; Water clear; No flow from stormdrain
S3	23 Jun 2015	Arrive Time	1008
S3	23 Jun 2015	Weather	Sunny
S3	23 Jun 2015	Wind Speed (kts)	4.3
S3	23 Jun 2015	Wind Dir	NE
S3	23 Jun 2015	Animal Life	5 Shorebirds
S3	23 Jun 2015	Floatables	None
S3	23 Jun 2015	Water Color	Green
S3	23 Jun 2015	Current Direction	N
S3	23 Jun 2015	Water Temp (C)	21
S3	23 Jun 2015	Wave Height Low (ft)	4

Station	Date	Parameter	Value
S3	23 Jun 2015	High Tide (ft)	4.1
S3	23 Jun 2015	High Tide Time	1551
S3	23 Jun 2015	Low Tide (ft)	1
S3	23 Jun 2015	Low Tide Time	850
S3	23 Jun 2015	Comments	Kelp; 5 Persons; 3 Surfers; Water clear; No flow from stormdrain
S3	30 Jun 2015	Arrive Time	940
S3	30 Jun 2015	Weather	Sunny
S3	30 Jun 2015	Wind Speed (kts)	3.9
S3	30 Jun 2015	Wind Dir	NE
S3	30 Jun 2015	Animal Life	>10 Shorebirds; 2 Dogs
S3	30 Jun 2015	Floatables	None
S3	30 Jun 2015	Water Color	Green
S3	30 Jun 2015	Current Direction	N
S3	30 Jun 2015	Water Temp (C)	20
S3	30 Jun 2015	Wave Height Low (ft)	3
S3	30 Jun 2015	High Tide (ft)	3.8
S3	30 Jun 2015	High Tide Time	917
S3	30 Jun 2015	Low Tide (ft)	1.7
S3	30 Jun 2015	Low Tide Time	1421
S3	30 Jun 2015	Comments	Kelp; >10 Persons; 5 Surfers; Water clear; No flow from stormdrain
S4	02 Jun 2015	Arrive Time	1114
S4	02 Jun 2015	Weather	Sunny
S4	02 Jun 2015	Wind Speed (kts)	6.2
S4	02 Jun 2015	Wind Dir	W
S4	02 Jun 2015	Animal Life	None
S4	02 Jun 2015	Floatables	None
S4	02 Jun 2015	Water Color	Green
S4	02 Jun 2015	Current Direction	N
S4	02 Jun 2015	Water Temp (C)	17
S4	02 Jun 2015	Wave Height Low (ft)	3
S4	02 Jun 2015	High Tide (ft)	3.8
S4	02 Jun 2015	High Tide Time	1011
S4	02 Jun 2015	Low Tide (ft)	1.6
S4	02 Jun 2015	Low Tide Time	1518
S4	02 Jun 2015	Comments	Kelp; Seagrass; Water clear
S4	09 Jun 2015	Arrive Time	1126
S4	09 Jun 2015	Weather	Partly Cloudy
S4	09 Jun 2015	Wind Speed (kts)	3.8
S4	09 Jun 2015	Wind Dir	S
S4	09 Jun 2015	Animal Life	None
S4	09 Jun 2015	Floatables	None
S4	09 Jun 2015	Water Color	Green

Station	Date	Parameter	Value
S4	09 Jun 2015	Current Direction	N
S4	09 Jun 2015	Water Temp (C)	20.1
S4	09 Jun 2015	Wave Height Low (ft)	3
S4	09 Jun 2015	High Tide (ft)	4.6
S4	09 Jun 2015	High Tide Time	1623
S4	09 Jun 2015	Low Tide (ft)	0.3
S4	09 Jun 2015	Low Tide Time	937
S4	09 Jun 2015	Comments	Seagrass; Water clear
S4	16 Jun 2015	Arrive Time	1044
S4	16 Jun 2015	Weather	Overcast
S4	16 Jun 2015	Wind Speed (kts)	4
S4	16 Jun 2015	Wind Dir	W
S4	16 Jun 2015	Animal Life	None
S4	16 Jun 2015	Floatables	None
S4	16 Jun 2015	Water Color	Green
S4	16 Jun 2015	Current Direction	N
S4	16 Jun 2015	Water Temp (C)	18.6
S4	16 Jun 2015	Wave Height Low (ft)	3
S4	16 Jun 2015	High Tide (ft)	4
S4	16 Jun 2015	High Tide Time	1020
S4	16 Jun 2015	Low Tide (ft)	1.6
S4	16 Jun 2015	Low Tide Time	1528
S4	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S4	23 Jun 2015	Arrive Time	1129
S4	23 Jun 2015	Weather	Sunny
S4	23 Jun 2015	Wind Speed (kts)	6.8
S4	23 Jun 2015	Wind Dir	W
S4	23 Jun 2015	Animal Life	None
S4	23 Jun 2015	Floatables	None
S4	23 Jun 2015	Water Color	Green
S4	23 Jun 2015	Current Direction	N
S4	23 Jun 2015	Water Temp (C)	22.7
S4	23 Jun 2015	Wave Height Low (ft)	3
S4	23 Jun 2015	High Tide (ft)	4.1
S4	23 Jun 2015	High Tide Time	1551
S4	23 Jun 2015	Low Tide (ft)	1
S4	23 Jun 2015	Low Tide Time	850
S4	23 Jun 2015	Comments	Water clear
S4	30 Jun 2015	Arrive Time	1049
S4	30 Jun 2015	Weather	Sunny
S4	30 Jun 2015	Wind Speed (kts)	3.4
S4	30 Jun 2015	Wind Dir	W
S4	30 Jun 2015	Animal Life	6 Terns
S4	30 Jun 2015	Floatables	None

Station	Date	Parameter	Value
S4	30 Jun 2015	Water Color	Green
S4	30 Jun 2015	Current Direction	N
S4	30 Jun 2015	Water Temp (C)	18.7
S4	30 Jun 2015	Wave Height Low (ft)	3
S4	30 Jun 2015	High Tide (ft)	3.8
S4	30 Jun 2015	High Tide Time	917
S4	30 Jun 2015	Low Tide (ft)	1.7
S4	30 Jun 2015	Low Tide Time	1421
S4	30 Jun 2015	Comments	Kelp; Water clear
S5	02 Jun 2015	Arrive Time	942
S5	02 Jun 2015	Weather	Sunny
S5	02 Jun 2015	Wind Speed (kts)	5.2
S5	02 Jun 2015	Wind Dir	W
S5	02 Jun 2015	Animal Life	1 Dead seal
S5	02 Jun 2015	Floatables	None
S5	02 Jun 2015	Water Color	Green
S5	02 Jun 2015	Current Direction	N
S5	02 Jun 2015	Water Temp (C)	17.2
S5	02 Jun 2015	Wave Height Low (ft)	2
S5	02 Jun 2015	High Tide (ft)	3.8
S5	02 Jun 2015	High Tide Time	1011
S5	02 Jun 2015	Low Tide (ft)	-0.7
S5	02 Jun 2015	Low Tide Time	400
S5	02 Jun 2015	Comments	Kelp; Seagrass; 1 Jogger; Water clear
S5	09 Jun 2015	Arrive Time	943
S5	09 Jun 2015	Weather	Overcast
S5	09 Jun 2015	Wind Speed (kts)	2.9
S5	09 Jun 2015	Wind Dir	SW
S5	09 Jun 2015	Animal Life	None
S5	09 Jun 2015	Floatables	None
S5	09 Jun 2015	Water Color	Green
S5	09 Jun 2015	Current Direction	N
S5	09 Jun 2015	Water Temp (C)	20.1
S5	09 Jun 2015	Wave Height Low (ft)	5
S5	09 Jun 2015	High Tide (ft)	4.6
S5	09 Jun 2015	High Tide Time	1623
S5	09 Jun 2015	Low Tide (ft)	0.3
S5	09 Jun 2015	Low Tide Time	937
S5	09 Jun 2015	Comments	Water clear
S5	16 Jun 2015	Arrive Time	915
S5	16 Jun 2015	Weather	Drizzle
S5	16 Jun 2015	Wind Speed (kts)	5
S5	16 Jun 2015	Wind Dir	NW
S5	16 Jun 2015	Animal Life	None

Station	Date	Parameter	Value
S5	16 Jun 2015	Floatables	None
S5	16 Jun 2015	Water Color	Green
S5	16 Jun 2015	Current Direction	N
S5	16 Jun 2015	Water Temp (C)	18.6
S5	16 Jun 2015	Wave Height Low (ft)	2
S5	16 Jun 2015	High Tide (ft)	4
S5	16 Jun 2015	High Tide Time	1020
S5	16 Jun 2015	Low Tide (ft)	-1.1
S5	16 Jun 2015	Low Tide Time	404
S5	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S5	23 Jun 2015	Arrive Time	946
S5	23 Jun 2015	Weather	Sunny
S5	23 Jun 2015	Wind Speed (kts)	5.2
S5	23 Jun 2015	Wind Dir	W
S5	23 Jun 2015	Animal Life	None
S5	23 Jun 2015	Floatables	None
S5	23 Jun 2015	Water Color	Green
S5	23 Jun 2015	Current Direction	N
S5	23 Jun 2015	Water Temp (C)	22.7
S5	23 Jun 2015	Wave Height Low (ft)	3
S5	23 Jun 2015	High Tide (ft)	4.1
S5	23 Jun 2015	High Tide Time	1551
S5	23 Jun 2015	Low Tide (ft)	1
S5	23 Jun 2015	Low Tide Time	850
S5	23 Jun 2015	Comments	Water clear
S5	30 Jun 2015	Arrive Time	906
S5	30 Jun 2015	Weather	Sunny
S5	30 Jun 2015	Wind Speed (kts)	2.1
S5	30 Jun 2015	Wind Dir	W
S5	30 Jun 2015	Animal Life	None
S5	30 Jun 2015	Floatables	None
S5	30 Jun 2015	Water Color	Green
S5	30 Jun 2015	Current Direction	N
S5	30 Jun 2015	Water Temp (C)	18.7
S5	30 Jun 2015	Wave Height Low (ft)	2
S5	30 Jun 2015	High Tide (ft)	3.8
S5	30 Jun 2015	High Tide Time	917
S5	30 Jun 2015	Low Tide (ft)	1.7
S5	30 Jun 2015	Low Tide Time	1421
S5	30 Jun 2015	Comments	Kelp; Seagrass; Debris; 2 Persons; Water clear
S6	02 Jun 2015	Arrive Time	955
S6	02 Jun 2015	Weather	Sunny
S6	02 Jun 2015	Wind Speed (kts)	6

Station	Date	Parameter	Value
S6	02 Jun 2015	Wind Dir	W
S6	02 Jun 2015	Animal Life	None
S6	02 Jun 2015	Floatables	None
S6	02 Jun 2015	Water Color	Green
S6	02 Jun 2015	Current Direction	N
S6	02 Jun 2015	Water Temp (C)	16.8
S6	02 Jun 2015	Wave Height Low (ft)	3
S6	02 Jun 2015	High Tide (ft)	3.8
S6	02 Jun 2015	High Tide Time	1011
S6	02 Jun 2015	Low Tide (ft)	1.6
S6	02 Jun 2015	Low Tide Time	1518
S6	02 Jun 2015	Comments	Kelp; Seagrass; 1 Person; 2 Surfers; Water turbid
S6	09 Jun 2015	Arrive Time	957
S6	09 Jun 2015	Weather	Overcast
S6	09 Jun 2015	Wind Speed (kts)	1.1
S6	09 Jun 2015	Wind Dir	SW
S6	09 Jun 2015	Animal Life	None
S6	09 Jun 2015	Floatables	None
S6	09 Jun 2015	Water Color	Green
S6	09 Jun 2015	Current Direction	N
S6	09 Jun 2015	Water Temp (C)	20.1
S6	09 Jun 2015	Wave Height Low (ft)	2
S6	09 Jun 2015	High Tide (ft)	4.6
S6	09 Jun 2015	High Tide Time	1623
S6	09 Jun 2015	Low Tide (ft)	0.3
S6	09 Jun 2015	Low Tide Time	937
S6	09 Jun 2015	Comments	Water clear
S6	16 Jun 2015	Arrive Time	926
S6	16 Jun 2015	Weather	Drizzle
S6	16 Jun 2015	Wind Speed (kts)	5
S6	16 Jun 2015	Wind Dir	NW
S6	16 Jun 2015	Animal Life	None
S6	16 Jun 2015	Floatables	None
S6	16 Jun 2015	Water Color	Green
S6	16 Jun 2015	Current Direction	N
S6	16 Jun 2015	Water Temp (C)	18.6
S6	16 Jun 2015	Wave Height Low (ft)	3
S6	16 Jun 2015	High Tide (ft)	4
S6	16 Jun 2015	High Tide Time	1020
S6	16 Jun 2015	Low Tide (ft)	-1.1
S6	16 Jun 2015	Low Tide Time	404
S6	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S6	23 Jun 2015	Arrive Time	1000

Station	Date	Parameter	Value
S6	23 Jun 2015	Weather	Sunny
S6	23 Jun 2015	Wind Speed (kts)	6.2
S6	23 Jun 2015	Wind Dir	W
S6	23 Jun 2015	Animal Life	None
S6	23 Jun 2015	Floatables	None
S6	23 Jun 2015	Water Color	Green
S6	23 Jun 2015	Current Direction	W
S6	23 Jun 2015	Water Temp (C)	22.7
S6	23 Jun 2015	Wave Height Low (ft)	4
S6	23 Jun 2015	High Tide (ft)	4.1
S6	23 Jun 2015	High Tide Time	1551
S6	23 Jun 2015	Low Tide (ft)	1
S6	23 Jun 2015	Low Tide Time	850
S6	23 Jun 2015	Comments	3 Surfers; Water clear
S6	30 Jun 2015	Arrive Time	919
S6	30 Jun 2015	Weather	Sunny
S6	30 Jun 2015	Wind Speed (kts)	3.2
S6	30 Jun 2015	Wind Dir	W
S6	30 Jun 2015	Animal Life	None
S6	30 Jun 2015	Floatables	None
S6	30 Jun 2015	Water Color	Green
S6	30 Jun 2015	Current Direction	N
S6	30 Jun 2015	Water Temp (C)	18.7
S6	30 Jun 2015	Wave Height Low (ft)	3
S6	30 Jun 2015	High Tide (ft)	3.8
S6	30 Jun 2015	High Tide Time	917
S6	30 Jun 2015	Low Tide (ft)	1.7
S6	30 Jun 2015	Low Tide Time	1421
S6	30 Jun 2015	Comments	Kelp; Seagrass; 3 Persons; 2 Surfers; Water clear
S8	02 Jun 2015	Arrive Time	825
S8	02 Jun 2015	Weather	Overcast
S8	02 Jun 2015	Wind Speed (kts)	4.8
S8	02 Jun 2015	Wind Dir	W
S8	02 Jun 2015	Animal Life	None
S8	02 Jun 2015	Floatables	None
S8	02 Jun 2015	Water Color	Green
S8	02 Jun 2015	Current Direction	N
S8	02 Jun 2015	Water Temp (C)	17
S8	02 Jun 2015	Wave Height Low (ft)	2
S8	02 Jun 2015	High Tide (ft)	3.8
S8	02 Jun 2015	High Tide Time	1011
S8	02 Jun 2015	Low Tide (ft)	-0.7
S8	02 Jun 2015	Low Tide Time	400
S8	02 Jun 2015	Comments	Kelp; Seagrass; Water turbid; Foam

Station	Date	Parameter	Value
S8	09 Jun 2015	Arrive Time	829
S8	09 Jun 2015	Weather	Overcast
S8	09 Jun 2015	Wind Speed (kts)	4.8
S8	09 Jun 2015	Wind Dir	SW
S8	09 Jun 2015	Animal Life	None
S8	09 Jun 2015	Floatables	None
S8	09 Jun 2015	Water Color	Green
S8	09 Jun 2015	Current Direction	N
S8	09 Jun 2015	Water Temp (C)	20
S8	09 Jun 2015	Wave Height Low (ft)	2
S8	09 Jun 2015	High Tide (ft)	4.1
S8	09 Jun 2015	High Tide Time	242
S8	09 Jun 2015	Low Tide (ft)	0.3
S8	09 Jun 2015	Low Tide Time	937
S8	09 Jun 2015	Comments	4 Persons; Water clear
S8	16 Jun 2015	Arrive Time	755
S8	16 Jun 2015	Weather	Foggy
S8	16 Jun 2015	Wind Speed (kts)	5
S8	16 Jun 2015	Wind Dir	W
S8	16 Jun 2015	Animal Life	None
S8	16 Jun 2015	Floatables	None
S8	16 Jun 2015	Water Color	Green
S8	16 Jun 2015	Current Direction	N
S8	16 Jun 2015	Water Temp (C)	18.6
S8	16 Jun 2015	Wave Height Low (ft)	2
S8	16 Jun 2015	High Tide (ft)	4
S8	16 Jun 2015	High Tide Time	1020
S8	16 Jun 2015	Low Tide (ft)	-1.1
S8	16 Jun 2015	Low Tide Time	404
S8	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S8	23 Jun 2015	Arrive Time	836
S8	23 Jun 2015	Weather	Overcast
S8	23 Jun 2015	Wind Speed (kts)	3.8
S8	23 Jun 2015	Wind Dir	W
S8	23 Jun 2015	Animal Life	None
S8	23 Jun 2015	Floatables	None
S8	23 Jun 2015	Water Color	Green
S8	23 Jun 2015	Current Direction	N
S8	23 Jun 2015	Water Temp (C)	22.5
S8	23 Jun 2015	Wave Height Low (ft)	2
S8	23 Jun 2015	High Tide (ft)	3.7
S8	23 Jun 2015	High Tide Time	154
S8	23 Jun 2015	Low Tide (ft)	1
S8	23 Jun 2015	Low Tide Time	850

Station	Date	Parameter	Value
S8	23 Jun 2015	Comments	Water clear
S8	30 Jun 2015	Arrive Time	752
S8	30 Jun 2015	Weather	Foggy
S8	30 Jun 2015	Wind Speed (kts)	0.7
S8	30 Jun 2015	Wind Dir	W
S8	30 Jun 2015	Animal Life	None
S8	30 Jun 2015	Floatables	None
S8	30 Jun 2015	Water Color	Green
S8	30 Jun 2015	Current Direction	N
S8	30 Jun 2015	Water Temp (C)	18.7
S8	30 Jun 2015	Wave Height Low (ft)	3
S8	30 Jun 2015	High Tide (ft)	3.8
S8	30 Jun 2015	High Tide Time	917
S8	30 Jun 2015	Low Tide (ft)	-0.6
S8	30 Jun 2015	Low Tide Time	307
S8	30 Jun 2015	Comments	Kelp; Seagrass; Water clear
S9	02 Jun 2015	Arrive Time	806
S9	02 Jun 2015	Weather	Overcast
S9	02 Jun 2015	Wind Speed (kts)	1.5
S9	02 Jun 2015	Wind Dir	W
S9	02 Jun 2015	Animal Life	None
S9	02 Jun 2015	Floatables	None
S9	02 Jun 2015	Water Color	Green
S9	02 Jun 2015	Current Direction	N
S9	02 Jun 2015	Water Temp (C)	17
S9	02 Jun 2015	Wave Height Low (ft)	1
S9	02 Jun 2015	High Tide (ft)	3.8
S9	02 Jun 2015	High Tide Time	1011
S9	02 Jun 2015	Low Tide (ft)	-0.7
S9	02 Jun 2015	Low Tide Time	400
S9	02 Jun 2015	Comments	Kelp; Seagrass; 16 Persons; 2 Surfers; Water turbid; Foam
S9	09 Jun 2015	Arrive Time	809
S9	09 Jun 2015	Weather	Overcast
S9	09 Jun 2015	Wind Speed (kts)	5.2
S9	09 Jun 2015	Wind Dir	SW
S9	09 Jun 2015	Animal Life	None
S9	09 Jun 2015	Floatables	None
S9	09 Jun 2015	Water Color	Green
S9	09 Jun 2015	Current Direction	N
S9	09 Jun 2015	Water Temp (C)	20
S9	09 Jun 2015	Wave Height Low (ft)	2
S9	09 Jun 2015	High Tide (ft)	4.1
S9	09 Jun 2015	High Tide Time	242

Station	Date	Parameter	Value
S9	09 Jun 2015	Low Tide (ft)	0.3
S9	09 Jun 2015	Low Tide Time	937
S9	09 Jun 2015	Comments	1 Person; 1 Surfer; 1 Fisherman; Water clear
S9	16 Jun 2015	Arrive Time	739
S9	16 Jun 2015	Weather	Foggy
S9	16 Jun 2015	Wind Speed (kts)	3.4
S9	16 Jun 2015	Wind Dir	W
S9	16 Jun 2015	Animal Life	None
S9	16 Jun 2015	Floatables	None
S9	16 Jun 2015	Water Color	Green
S9	16 Jun 2015	Current Direction	N
S9	16 Jun 2015	Water Temp (C)	18.6
S9	16 Jun 2015	Wave Height Low (ft)	1
S9	16 Jun 2015	High Tide (ft)	4
S9	16 Jun 2015	High Tide Time	1020
S9	16 Jun 2015	Low Tide (ft)	-1.1
S9	16 Jun 2015	Low Tide Time	404
S9	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S9	23 Jun 2015	Arrive Time	813
S9	23 Jun 2015	Weather	Overcast
S9	23 Jun 2015	Wind Speed (kts)	0.9
S9	23 Jun 2015	Wind Dir	W
S9	23 Jun 2015	Animal Life	None
S9	23 Jun 2015	Floatables	None
S9	23 Jun 2015	Water Color	Green
S9	23 Jun 2015	Current Direction	N
S9	23 Jun 2015	Water Temp (C)	22.5
S9	23 Jun 2015	Wave Height Low (ft)	1
S9	23 Jun 2015	High Tide (ft)	3.7
S9	23 Jun 2015	High Tide Time	154
S9	23 Jun 2015	Low Tide (ft)	1
S9	23 Jun 2015	Low Tide Time	850
S9	23 Jun 2015	Comments	6 Persons; Water clear
S9	30 Jun 2015	Arrive Time	733
S9	30 Jun 2015	Weather	Cloudy
S9	30 Jun 2015	Wind Speed (kts)	0.2
S9	30 Jun 2015	Wind Dir	W
S9	30 Jun 2015	Animal Life	None
S9	30 Jun 2015	Floatables	None
S9	30 Jun 2015	Water Color	Green
S9	30 Jun 2015	Current Direction	N
S9	30 Jun 2015	Water Temp (C)	18.6
S9	30 Jun 2015	Wave Height Low (ft)	2

Station	Date	Parameter	Value
S9	30 Jun 2015	High Tide (ft)	3.8
S9	30 Jun 2015	High Tide Time	917
S9	30 Jun 2015	Low Tide (ft)	-0.6
S9	30 Jun 2015	Low Tide Time	307
S9	30 Jun 2015	Comments	Seagrass; 2 Joggers; Water clear
S10	02 Jun 2015	Arrive Time	1118
S10	02 Jun 2015	Weather	Sunny
S10	02 Jun 2015	Wind Speed (kts)	6.8
S10	02 Jun 2015	Wind Dir	W
S10	02 Jun 2015	Animal Life	None
S10	02 Jun 2015	Floatables	None
S10	02 Jun 2015	Water Color	Green
S10	02 Jun 2015	Current Direction	N
S10	02 Jun 2015	Water Temp (C)	16.8
S10	02 Jun 2015	Wave Height Low (ft)	3
S10	02 Jun 2015	High Tide (ft)	3.8
S10	02 Jun 2015	High Tide Time	1011
S10	02 Jun 2015	Low Tide (ft)	1.6
S10	02 Jun 2015	Low Tide Time	1518
S10	02 Jun 2015	Comments	Kelp; Seagrass; Water clear; Flow at dairy mart rd 6/2/15 1148
S10	09 Jun 2015	Arrive Time	1134
S10	09 Jun 2015	Weather	Partly Cloudy
S10	09 Jun 2015	Wind Speed (kts)	3.8
S10	09 Jun 2015	Wind Dir	W
S10	09 Jun 2015	Animal Life	None
S10	09 Jun 2015	Floatables	None
S10	09 Jun 2015	Water Color	Green
S10	09 Jun 2015	Current Direction	N
S10	09 Jun 2015	Water Temp (C)	20.1
S10	09 Jun 2015	Wave Height Low (ft)	3
S10	09 Jun 2015	High Tide (ft)	4.6
S10	09 Jun 2015	High Tide Time	1623
S10	09 Jun 2015	Low Tide (ft)	0.3
S10	09 Jun 2015	Low Tide Time	937
S10	09 Jun 2015	Comments	Kelp; Seagrass; Water clear; Dairy mart dry at 1200
S10	16 Jun 2015	Arrive Time	1048
S10	16 Jun 2015	Weather	Overcast
S10	16 Jun 2015	Wind Speed (kts)	5
S10	16 Jun 2015	Wind Dir	W
S10	16 Jun 2015	Animal Life	None
S10	16 Jun 2015	Floatables	None
S10	16 Jun 2015	Water Color	Green

Station	Date	Parameter	Value
S10	16 Jun 2015	Current Direction	N
S10	16 Jun 2015	Water Temp (C)	18.6
S10	16 Jun 2015	Wave Height Low (ft)	3
S10	16 Jun 2015	High Tide (ft)	4
S10	16 Jun 2015	High Tide Time	1020
S10	16 Jun 2015	Low Tide (ft)	1.6
S10	16 Jun 2015	Low Tide Time	1528
S10	16 Jun 2015	Comments	Kelp; Seagrass; Water clear; Dairymart dry at 1120
S10	23 Jun 2015	Arrive Time	1136
S10	23 Jun 2015	Weather	Sunny
S10	23 Jun 2015	Wind Speed (kts)	6.4
S10	23 Jun 2015	Wind Dir	W
S10	23 Jun 2015	Animal Life	None
S10	23 Jun 2015	Floatables	None
S10	23 Jun 2015	Water Color	Green
S10	23 Jun 2015	Current Direction	E
S10	23 Jun 2015	Water Temp (C)	22.7
S10	23 Jun 2015	Wave Height Low (ft)	4
S10	23 Jun 2015	High Tide (ft)	4.1
S10	23 Jun 2015	High Tide Time	1551
S10	23 Jun 2015	Low Tide (ft)	1
S10	23 Jun 2015	Low Tide Time	850
S10	23 Jun 2015	Comments	Water clear; Dairymart dry at 1201
S10	30 Jun 2015	Arrive Time	1055
S10	30 Jun 2015	Weather	Sunny
S10	30 Jun 2015	Wind Speed (kts)	3.4
S10	30 Jun 2015	Wind Dir	W
S10	30 Jun 2015	Animal Life	None
S10	30 Jun 2015	Floatables	None
S10	30 Jun 2015	Water Color	Green
S10	30 Jun 2015	Current Direction	N
S10	30 Jun 2015	Water Temp (C)	18.7
S10	30 Jun 2015	Wave Height Low (ft)	3
S10	30 Jun 2015	High Tide (ft)	3.8
S10	30 Jun 2015	High Tide Time	917
S10	30 Jun 2015	Low Tide (ft)	1.7
S10	30 Jun 2015	Low Tide Time	1421
S10	30 Jun 2015	Comments	Kelp; Water clear
S11	02 Jun 2015	Arrive Time	950
S11	02 Jun 2015	Weather	Sunny
S11	02 Jun 2015	Wind Speed (kts)	5.2
S11	02 Jun 2015	Wind Dir	W
S11	02 Jun 2015	Animal Life	1 Dog

Station	Date	Parameter	Value
S11	02 Jun 2015	Floatables	None
S11	02 Jun 2015	Water Color	Green
S11	02 Jun 2015	Current Direction	N
S11	02 Jun 2015	Water Temp (C)	17
S11	02 Jun 2015	Wave Height Low (ft)	3
S11	02 Jun 2015	High Tide (ft)	3.8
S11	02 Jun 2015	High Tide Time	1011
S11	02 Jun 2015	Low Tide (ft)	1.6
S11	02 Jun 2015	Low Tide Time	1518
S11	02 Jun 2015	Comments	Kelp; Seagrass; 2 Persons; Water turbid
S11	09 Jun 2015	Arrive Time	952
S11	09 Jun 2015	Weather	Overcast
S11	09 Jun 2015	Wind Speed (kts)	1.7
S11	09 Jun 2015	Wind Dir	SW
S11	09 Jun 2015	Animal Life	None
S11	09 Jun 2015	Floatables	None
S11	09 Jun 2015	Water Color	Green
S11	09 Jun 2015	Current Direction	N
S11	09 Jun 2015	Water Temp (C)	20.1
S11	09 Jun 2015	Wave Height Low (ft)	3
S11	09 Jun 2015	High Tide (ft)	4.6
S11	09 Jun 2015	High Tide Time	1623
S11	09 Jun 2015	Low Tide (ft)	0.3
S11	09 Jun 2015	Low Tide Time	937
S11	09 Jun 2015	Comments	1 Person; Water clear
S11	16 Jun 2015	Arrive Time	922
S11	16 Jun 2015	Weather	Drizzle
S11	16 Jun 2015	Wind Speed (kts)	5.2
S11	16 Jun 2015	Wind Dir	NW
S11	16 Jun 2015	Animal Life	None
S11	16 Jun 2015	Floatables	None
S11	16 Jun 2015	Water Color	Green
S11	16 Jun 2015	Current Direction	N
S11	16 Jun 2015	Water Temp (C)	18.6
S11	16 Jun 2015	Wave Height Low (ft)	3
S11	16 Jun 2015	High Tide (ft)	4
S11	16 Jun 2015	High Tide Time	1020
S11	16 Jun 2015	Low Tide (ft)	-1.1
S11	16 Jun 2015	Low Tide Time	404
S11	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S11	23 Jun 2015	Arrive Time	955
S11	23 Jun 2015	Weather	Sunny
S11	23 Jun 2015	Wind Speed (kts)	6.4
S11	23 Jun 2015	Wind Dir	W

Station	Date	Parameter	Value
S11	23 Jun 2015	Animal Life	None
S11	23 Jun 2015	Floatables	None
S11	23 Jun 2015	Water Color	Green
S11	23 Jun 2015	Current Direction	N
S11	23 Jun 2015	Water Temp (C)	22.7
S11	23 Jun 2015	Wave Height Low (ft)	3
S11	23 Jun 2015	High Tide (ft)	4.1
S11	23 Jun 2015	High Tide Time	1551
S11	23 Jun 2015	Low Tide (ft)	1
S11	23 Jun 2015	Low Tide Time	850
S11	23 Jun 2015	Comments	Water clear
S11	30 Jun 2015	Arrive Time	913
S11	30 Jun 2015	Weather	Sunny
S11	30 Jun 2015	Wind Speed (kts)	2.3
S11	30 Jun 2015	Wind Dir	W
S11	30 Jun 2015	Animal Life	None
S11	30 Jun 2015	Floatables	None
S11	30 Jun 2015	Water Color	Green
S11	30 Jun 2015	Current Direction	N
S11	30 Jun 2015	Water Temp (C)	18.7
S11	30 Jun 2015	Wave Height Low (ft)	3
S11	30 Jun 2015	High Tide (ft)	3.8
S11	30 Jun 2015	High Tide Time	917
S11	30 Jun 2015	Low Tide (ft)	1.7
S11	30 Jun 2015	Low Tide Time	1421
S11	30 Jun 2015	Comments	Kelp; Seagrass; 1 Person; Water clear
S12	02 Jun 2015	Arrive Time	1004
S12	02 Jun 2015	Weather	Sunny
S12	02 Jun 2015	Wind Speed (kts)	3.8
S12	02 Jun 2015	Wind Dir	W
S12	02 Jun 2015	Animal Life	None
S12	02 Jun 2015	Floatables	None
S12	02 Jun 2015	Water Color	Green
S12	02 Jun 2015	Current Direction	N
S12	02 Jun 2015	Water Temp (C)	17
S12	02 Jun 2015	Wave Height Low (ft)	3
S12	02 Jun 2015	High Tide (ft)	3.8
S12	02 Jun 2015	High Tide Time	1011
S12	02 Jun 2015	Low Tide (ft)	1.6
S12	02 Jun 2015	Low Tide Time	1518
S12	02 Jun 2015	Comments	Kelp; Seagrass; 3 Persons; Water clear
S12	09 Jun 2015	Arrive Time	1007
S12	09 Jun 2015	Weather	Overcast
S12	09 Jun 2015	Wind Speed (kts)	2.7

Station	Date	Parameter	Value
S12	09 Jun 2015	Wind Dir	SW
S12	09 Jun 2015	Animal Life	None
S12	09 Jun 2015	Floatables	None
S12	09 Jun 2015	Water Color	Green
S12	09 Jun 2015	Current Direction	N
S12	09 Jun 2015	Water Temp (C)	20.1
S12	09 Jun 2015	Wave Height Low (ft)	2
S12	09 Jun 2015	High Tide (ft)	4.6
S12	09 Jun 2015	High Tide Time	1623
S12	09 Jun 2015	Low Tide (ft)	0.3
S12	09 Jun 2015	Low Tide Time	937
S12	09 Jun 2015	Comments	1 Person; 1 Surfer; Water clear
S12	16 Jun 2015	Arrive Time	935
S12	16 Jun 2015	Weather	Drizzle
S12	16 Jun 2015	Wind Speed (kts)	5.2
S12	16 Jun 2015	Wind Dir	NW
S12	16 Jun 2015	Animal Life	None
S12	16 Jun 2015	Floatables	None
S12	16 Jun 2015	Water Color	Green
S12	16 Jun 2015	Current Direction	N
S12	16 Jun 2015	Water Temp (C)	18.6
S12	16 Jun 2015	Wave Height Low (ft)	2
S12	16 Jun 2015	High Tide (ft)	4
S12	16 Jun 2015	High Tide Time	1020
S12	16 Jun 2015	Low Tide (ft)	-1.1
S12	16 Jun 2015	Low Tide Time	404
S12	16 Jun 2015	Comments	Kelp; Seagrass; Water clear
S12	23 Jun 2015	Arrive Time	1013
S12	23 Jun 2015	Weather	Sunny
S12	23 Jun 2015	Wind Speed (kts)	6.2
S12	23 Jun 2015	Wind Dir	W
S12	23 Jun 2015	Animal Life	None
S12	23 Jun 2015	Floatables	None
S12	23 Jun 2015	Water Color	Green
S12	23 Jun 2015	Current Direction	N
S12	23 Jun 2015	Water Temp (C)	22.7
S12	23 Jun 2015	Wave Height Low (ft)	3
S12	23 Jun 2015	High Tide (ft)	4.1
S12	23 Jun 2015	High Tide Time	1551
S12	23 Jun 2015	Low Tide (ft)	1
S12	23 Jun 2015	Low Tide Time	850
S12	23 Jun 2015	Comments	2 Surfers; Water clear
S12	30 Jun 2015	Arrive Time	929
S12	30 Jun 2015	Weather	Sunny

Station	Date	Parameter	Value
S12	30 Jun 2015	Wind Speed (kts)	3.2
S12	30 Jun 2015	Wind Dir	W
S12	30 Jun 2015	Animal Life	1 Bird
S12	30 Jun 2015	Floatables	None
S12	30 Jun 2015	Water Color	Green
S12	30 Jun 2015	Current Direction	N
S12	30 Jun 2015	Water Temp (C)	18.7
S12	30 Jun 2015	Wave Height Low (ft)	3
S12	30 Jun 2015	High Tide (ft)	3.8
S12	30 Jun 2015	High Tide Time	917
S12	30 Jun 2015	Low Tide (ft)	1.7
S12	30 Jun 2015	Low Tide Time	1421
S12	30 Jun 2015	Comments	Kelp; Seagrass; 1 Surfer; Water clear

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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 Jun 2015	37	8	7	5	8	2	31
02 Jun 2015	37	8	7	5	8	2	31
03 Jun 2015	37	8	7	5	8	2	31
04 Jun 2015	37	8	7	5	8	2	31
05 Jun 2015	38*	6*	5*	5*	8	2*	39*
06 Jun 2015	31	5	4	6	9	3	32
07 Jun 2015	31	5	4	6	12	3	32
08 Jun 2015	31	5	4	6	12	3	32
09 Jun 2015	31	5	4	6	12	3	32
10 Jun 2015	35	6	5	7	13	3	30
11 Jun 2015	35	6	5	7	13	3	30
12 Jun 2015	35	6	5	7	13	3	30
13 Jun 2015	35	6	5	7	13	3	30
14 Jun 2015	17	8	5	9	11	4	26
15 Jun 2015	17	8	5	9	11	4	26
16 Jun 2015	17	8	5	9	11	4	26
17 Jun 2015	17	8	5	9	11	4	26
18 Jun 2015	15	6	5	9	11	4	21
19 Jun 2015	15	6	5	9	11	4	21
20 Jun 2015	20	3	4	9	15	5	15
21 Jun 2015	20	3	4	9	15	5	15
22 Jun 2015	14	3	4	7	10	4	14
23 Jun 2015	14	3	4	7	10	4	14
24 Jun 2015	14	3	4	7	10	4	14
25 Jun 2015	14	3	4	7	10	4	14
26 Jun 2015	11	3	3	8	8	5	11
27 Jun 2015	11	3	3	8	8	5	11
28 Jun 2015	11	3	3	8	8	5	11
29 Jun 2015	11	3	3	8	8	5	11
30 Jun 2015	11*	3*	3*	9*	8*	7*	12*

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

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

* 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
06 Jun 2015	IC	IC	IC	IC	IC	IC	IC
10 Jun 2015	IC	IC	IC	IC	IC	IC	IC
18 Jun 2015	IC	IC	IC	IC	IC	IC	IC
22 Jun 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
06 Jun 2015	IC	IC	IC	IC	IC	IC	IC
10 Jun 2015	IC	IC	IC	IC	IC	IC	IC
18 Jun 2015	IC	IC	IC	IC	IC	IC	IC
22 Jun 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
06 Jun 2015	IC	IC	IC	IC	IC	IC	IC
10 Jun 2015	IC	IC	IC	IC	IC	IC	IC
18 Jun 2015	IC	IC	IC	IC	IC	IC	IC
22 Jun 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
06 Jun 2015	IC	IC	IC	IC	IC	IC	IC
10 Jun 2015	IC	IC	IC	IC	IC	IC	IC
18 Jun 2015	IC	IC	IC	IC	IC	IC	IC
22 Jun 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	06 Jun 2015	1056	2	<2	<2	<2	1.00	17.1	72.54	9.4	33.40	8.3	ns	ns
I19	06 Jun 2015	1056	6	<20	<2	<2	0.10	17.0	71.08	9.2	33.40	8.3	ns	ns
I19	06 Jun 2015	1056	11	<20	<2	<2	0.10	13.2	47.20	7.2	33.39	8.1	ns	ns
I19	10 Jun 2015	1047	2	<20	<2	<2	0.10	16.6	77.31	8.6	33.39	8.2	ns	ns
I19	10 Jun 2015	1047	6	28e	<2	<2	0.07	15.3	72.95	8.2	33.37	8.2	ns	ns
I19	10 Jun 2015	1047	11	120e	14e	14e	0.12	13.2	67.23	7.0	33.42	8.0	ns	ns
I19	18 Jun 2015	1142	2	<20	<2	<2	0.10	19.0	64.28	8.0	33.37	8.3	ns	ns
I19	18 Jun 2015	1142	6	2e	2e	<2	1.00	17.6	71.49	8.1	33.35	8.2	ns	ns
I19	18 Jun 2015	1142	11	<2	<2	<2	1.00	15.9	73.31	7.4	33.37	8.2	ns	ns
I19	22 Jun 2015	1242	2	<2	<2	<2	1.00	20.6	81.39	7.9	33.38	8.3	ns	ns
I19	22 Jun 2015	1242	6	<2	<2	<2	1.00	19.6	81.80	8.1	33.38	8.3	ns	ns
I19	22 Jun 2015	1242	11	<2	<2	<2	1.00	17.1	60.71	8.3	33.32	8.2	ns	ns
I24	06 Jun 2015	1124	2	<2	<2	<2	1.00	17.3	72.45	9.3	33.40	8.3	ns	ns
I24	06 Jun 2015	1124	6	2e	<2	<2	1.00	14.6	71.76	8.2	33.32	8.2	ns	ns
I24	06 Jun 2015	1124	11	<2	<2	<2	1.00	12.4	67.03	6.9	33.40	8.0	ns	ns
I24	10 Jun 2015	1112	2	<2	<2	<2	1.00	16.7	73.24	8.8	33.39	8.2	ns	ns
I24	10 Jun 2015	1112	6	<20	<2	<2	0.10	14.9	67.71	8.4	33.38	8.2	ns	ns
I24	10 Jun 2015	1112	11	<20	<2	<2	0.10	13.2	63.25	6.8	33.41	8.0	ns	ns
I24	18 Jun 2015	1200	2	<2	<2	<2	1.00	18.9	67.21	8.5	33.37	8.3	ns	ns
I24	18 Jun 2015	1200	6	<2	<2	<2	1.00	17.2	70.92	8.6	33.36	8.3	ns	ns
I24	18 Jun 2015	1200	11	<2	<2	<2	1.00	15.6	76.82	7.5	33.39	8.2	ns	ns
I24	22 Jun 2015	1308	2	<2	<2	<2	1.00	20.8	86.15	7.7	33.40	8.2	ns	ns
I24	22 Jun 2015	1308	6	<2	<2	<2	1.00	20.0	86.04	7.9	33.39	8.3	ns	ns
I24	22 Jun 2015	1308	11	<2	<2	<2	1.00	16.0	79.10	8.0	33.34	8.2	ns	ns
I25	06 Jun 2015	1133	2	<2	<2	<2	1.00	17.3	72.39	9.6	33.40	8.3	ns	ns
I25	06 Jun 2015	1133	6	<2	<2	<2	1.00	15.6	73.27	8.8	33.38	8.2	ns	ns
I25	06 Jun 2015	1133	9	<2	<2	<2	1.00	13.5	72.60	7.5	33.38	8.1	ns	ns
I25	10 Jun 2015	1128	2	<2	<2	<2	1.00	16.9	76.24	8.7	33.40	8.3	ns	ns
I25	10 Jun 2015	1128	6	6e	4e	<2	0.67	15.0	65.96	8.3	33.37	8.2	ns	ns
I25	10 Jun 2015	1128	9	<20	<2	2e	0.10	13.8	66.28	7.5	33.41	8.1	ns	ns
I25	18 Jun 2015	1207	2	<2	<2	<2	1.00	19.1	64.98	8.5	33.38	8.3	ns	ns
I25	18 Jun 2015	1207	6	<2	<2	<2	1.00	17.4	72.46	8.7	33.37	8.3	ns	ns
I25	18 Jun 2015	1207	9	<2	<2	<2	1.00	16.3	74.29	8.1	33.38	8.2	ns	ns
I25	22 Jun 2015	1323	2	<2	<2	<2	1.00	20.7	86.25	7.7	33.40	8.3	ns	ns
I25	22 Jun 2015	1323	6	<2	<2	<2	1.00	19.6	87.71	7.9	33.37	8.3	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I25	22 Jun 2015	1323	9	<2	<2	<2	1.00	18.7	80.09	7.8	33.36	8.2	ns	ns
I26	06 Jun 2015	1146	2	<2	<2	<2	1.00	17.5	70.61	9.3	33.41	8.3	ns	ns
I26	06 Jun 2015	1146	6	<20	<2	<2	0.10	16.6	71.99	9.4	33.38	8.3	ns	ns
I26	06 Jun 2015	1146	9	<20	<2	<2	0.10	13.2	67.44	7.1	33.34	8.1	ns	ns
I26	10 Jun 2015	1138	2	<2	<2	<2	1.00	16.9	72.88	8.5	33.39	8.2	ns	ns
I26	10 Jun 2015	1138	6	<20	<2	<2	0.10	15.1	70.43	7.9	33.40	8.2	ns	ns
I26	10 Jun 2015	1138	9	<20	<2	<2	0.10	13.1	68.02	6.4	33.40	8.0	ns	ns
I26	18 Jun 2015	1215	2	2e	<2	<2	1.00	19.2	57.79	8.6	33.40	8.3	ns	ns
I26	18 Jun 2015	1215	6	<20	<2	<2	0.10	18.3	61.06	8.4	33.38	8.3	ns	ns
I26	18 Jun 2015	1215	9	<20	<2	<2	0.10	17.1	76.30	7.6	33.37	8.2	ns	ns
I26	22 Jun 2015	1334	2	<2	<2	<2	1.00	20.6	82.93	7.7	33.40	8.2	ns	ns
I26	22 Jun 2015	1334	6	<2	<2	<2	1.00	20.0	85.42	7.8	33.38	8.2	ns	ns
I26	22 Jun 2015	1334	9	<2	<2	<2	1.00	19.4	87.67	8.1	33.32	8.2	ns	ns
I32	06 Jun 2015	1201	2	<2	<2	2e	1.00	17.4	62.96	9.1	33.42	8.3	ns	ns
I32	06 Jun 2015	1201	6	<20	<2	<2	0.10	17.3	63.66	9.0	33.42	8.3	ns	ns
I32	06 Jun 2015	1201	9	<20	<2	<2	0.10	17.2	64.38	8.3	33.42	8.3	ns	ns
I32	10 Jun 2015	1156	2	<20	<2	<2	0.10	17.1	74.26	8.4	33.40	8.2	ns	ns
I32	10 Jun 2015	1156	6	<20	<2	<2	0.10	14.7	68.85	8.2	33.37	8.2	ns	ns
I32	10 Jun 2015	1156	9	<20	<2	<2	0.10	12.8	73.21	7.3	33.38	8.1	ns	ns
I32	18 Jun 2015	1224	2	<2	<2	<2	1.00	19.2	65.59	7.0	33.33	8.3	ns	ns
I32	18 Jun 2015	1224	6	<20	<2	<2	0.10	18.4	62.94	8.6	33.42	8.3	ns	ns
I32	18 Jun 2015	1224	9	4e	2e	2e	0.50	17.2	62.32	7.7	33.41	8.2	ns	ns
I32	22 Jun 2015	1348	2	<2	<2	<2	1.00	20.7	84.93	7.9	33.41	8.3	ns	ns
I32	22 Jun 2015	1348	6	<2	<2	<2	1.00	20.5	83.55	8.0	33.39	8.3	ns	ns
I32	22 Jun 2015	1348	9	<2	<2	<2	1.00	19.8	78.28	8.1	33.37	8.3	ns	ns
I39	06 Jun 2015	1032	2	<2	<2	<2	1.00	16.7	75.33	9.5	33.39	8.3	ns	ns
I39	06 Jun 2015	1032	12	<20	<2	<2	0.10	12.0	72.01	6.2	33.40	8.0	ns	ns
I39	06 Jun 2015	1032	18	2e	<2	<2	1.00	11.7	74.55	5.2	33.44	7.9	ns	ns
I39	10 Jun 2015	1024	2	<20	<2	<2	0.10	16.7	80.00	8.7	33.39	8.2	ns	ns
I39	10 Jun 2015	1024	12	2e	<2	<2	1.00	12.0	78.02	5.5	33.43	7.9	ns	ns
I39	10 Jun 2015	1024	18	<20	<2	<2	0.10	11.4	78.61	4.2	33.49	7.8	ns	ns
I39	18 Jun 2015	1124	2	<20	<2	<2	0.10	18.7	74.38	8.8	33.39	8.3	ns	ns
I39	18 Jun 2015	1124	12	<2	<2	<2	1.00	14.6	85.70	7.9	33.38	8.2	ns	ns
I39	18 Jun 2015	1124	18	<2	<2	<2	1.00	14.0	83.82	6.5	33.42	8.1	ns	ns
I39	22 Jun 2015	1211	2	<2	<2	<2	1.00	20.3	87.18	7.9	33.41	8.3	ns	ns
I39	22 Jun 2015	1211	12	<2	<2	<2	1.00	17.2	83.53	8.1	33.31	8.3	ns	ns
I39	22 Jun 2015	1211	18	<2	<2	<2	1.00	14.4	84.78	7.9	33.32	8.2	ns	ns
I40	06 Jun 2015	1112	2	<2	<2	<2	1.00	17.1	71.25	8.8	33.40	8.3	ns	ns
I40	06 Jun 2015	1112	6	<20	<2	<2	0.10	15.9	62.13	8.2	33.37	8.3	ns	ns
I40	06 Jun 2015	1112	9	<20	<2	10e	0.10	13.4	32.19	7.6	33.39	8.1	ns	ns
I40	10 Jun 2015	1101	2	<2	<2	<2	1.00	16.8	75.30	8.7	33.40	8.2	ns	ns
I40	10 Jun 2015	1101	6	20e	<2	<2	0.10	15.6	70.55	8.3	33.40	8.2	ns	ns

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pH	OG	SUSO
I40	10 Jun 2015	1101	9	40e	2e	<2	0.05	14.2	64.46	7.7	33.38	8.1	ns	ns
I40	18 Jun 2015	1154	2	<20	<2	<2	0.10	18.8	62.87	8.5	33.37	8.3	ns	ns
I40	18 Jun 2015	1154	6	<2	<2	<2	1.00	16.4	71.03	8.0	33.38	8.2	ns	ns
I40	18 Jun 2015	1154	9	<2	<2	<2	1.00	16.1	67.09	7.3	33.38	8.2	ns	ns
I40	22 Jun 2015	1255	2	<2	<2	<2	1.00	20.8	72.91	7.7	33.39	8.3	ns	ns
I40	22 Jun 2015	1255	6	<2	<2	<2	1.00	19.7	80.73	8.0	33.38	8.3	ns	ns
I40	22 Jun 2015	1255	9	<20	<2	<2	0.10	18.2	70.27	7.5	33.33	8.2	ns	ns

ns = not sampled

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	06 Jun 2015	Depth (m)	11
I19	06 Jun 2015	Arrive Time	1056
I19	06 Jun 2015	Depart Time	1103
I19	06 Jun 2015	Air Temp (C)	17
I19	06 Jun 2015	Weather	Partly Cloudy
I19	06 Jun 2015	Visibility (mi)	20
I19	06 Jun 2015	Wind Speed (kts)	7
I19	06 Jun 2015	Wind Dir	NW
I19	06 Jun 2015	Water Color	Green
I19	06 Jun 2015	Wave Ht Low (ft)	3
I19	06 Jun 2015	Wave Period (sec)	11
I19	06 Jun 2015	Sea State	Wind ripples
I19	06 Jun 2015	High Tide (ft)	3.81
I19	06 Jun 2015	High Tide Time	1323
I19	06 Jun 2015	Low Tide (ft)	-0.6
I19	06 Jun 2015	Low Tide Time	650
I19	06 Jun 2015	Comments	
I19	10 Jun 2015	Depth (m)	11
I19	10 Jun 2015	Arrive Time	1047
I19	10 Jun 2015	Depart Time	1056
I19	10 Jun 2015	Air Temp (C)	17
I19	10 Jun 2015	Weather	Overcast
I19	10 Jun 2015	Visibility (mi)	10
I19	10 Jun 2015	Wind Speed (kts)	7
I19	10 Jun 2015	Wind Dir	SE
I19	10 Jun 2015	Water Color	Green
I19	10 Jun 2015	Wave Ht Low (ft)	4
I19	10 Jun 2015	Wave Period (sec)	13
I19	10 Jun 2015	Sea State	Calm
I19	10 Jun 2015	High Tide (ft)	3.76
I19	10 Jun 2015	High Tide Time	411
I19	10 Jun 2015	Low Tide (ft)	0.59
I19	10 Jun 2015	Low Tide Time	1037
I19	10 Jun 2015	Comments	Kelp
I19	18 Jun 2015	Depth (m)	12
I19	18 Jun 2015	Arrive Time	1142
I19	18 Jun 2015	Depart Time	1146
I19	18 Jun 2015	Air Temp (C)	18
I19	18 Jun 2015	Weather	Overcast
I19	18 Jun 2015	Visibility (mi)	6

Station	Date	Parameter	Value
I19	18 Jun 2015	Wind Speed (kts)	5
I19	18 Jun 2015	Wind Dir	NW
I19	18 Jun 2015	Water Color	Green
I19	18 Jun 2015	Wave Ht Low (ft)	3
I19	18 Jun 2015	Wave Period (sec)	11
I19	18 Jun 2015	Sea State	Wind ripples
I19	18 Jun 2015	High Tide (ft)	3.94
I19	18 Jun 2015	High Tide Time	1146
I19	18 Jun 2015	Low Tide (ft)	-0.82
I19	18 Jun 2015	Low Tide Time	523
I19	18 Jun 2015	Comments	
I19	22 Jun 2015	Depth (m)	12
I19	22 Jun 2015	Arrive Time	1242
I19	22 Jun 2015	Depart Time	1245
I19	22 Jun 2015	Air Temp (C)	19
I19	22 Jun 2015	Weather	Cloudy
I19	22 Jun 2015	Visibility (mi)	6
I19	22 Jun 2015	Wind Speed (kts)	8
I19	22 Jun 2015	Wind Dir	NE
I19	22 Jun 2015	Water Color	Greenish-Brown
I19	22 Jun 2015	Wave Ht Low (ft)	2
I19	22 Jun 2015	Wave Period (sec)	13
I19	22 Jun 2015	Sea State	Calm
I19	22 Jun 2015	High Tide (ft)	3.91
I19	22 Jun 2015	High Tide Time	1458
I19	22 Jun 2015	Low Tide (ft)	0.62
I19	22 Jun 2015	Low Tide Time	804
I19	22 Jun 2015	Comments	
I24	06 Jun 2015	Depth (m)	19
I24	06 Jun 2015	Arrive Time	1124
I24	06 Jun 2015	Depart Time	1130
I24	06 Jun 2015	Air Temp (C)	17
I24	06 Jun 2015	Weather	Partly Cloudy
I24	06 Jun 2015	Visibility (mi)	20
I24	06 Jun 2015	Wind Speed (kts)	10
I24	06 Jun 2015	Wind Dir	E
I24	06 Jun 2015	Water Color	Green
I24	06 Jun 2015	Wave Ht Low (ft)	3
I24	06 Jun 2015	Wave Period (sec)	11
I24	06 Jun 2015	Sea State	Wind ripples
I24	06 Jun 2015	High Tide (ft)	3.81
I24	06 Jun 2015	High Tide Time	1323
I24	06 Jun 2015	Low Tide (ft)	-0.6
I24	06 Jun 2015	Low Tide Time	650
I24	06 Jun 2015	Comments	Sealion on station

Station	Date	Parameter	Value
I24	10 Jun 2015	Depth (m)	9
I24	10 Jun 2015	Arrive Time	1112
I24	10 Jun 2015	Depart Time	1124
I24	10 Jun 2015	Air Temp (C)	18
I24	10 Jun 2015	Weather	Overcast
I24	10 Jun 2015	Visibility (mi)	10
I24	10 Jun 2015	Wind Speed (kts)	10
I24	10 Jun 2015	Wind Dir	SE
I24	10 Jun 2015	Water Color	Green
I24	10 Jun 2015	Wave Ht Low (ft)	4
I24	10 Jun 2015	Wave Period (sec)	13
I24	10 Jun 2015	Sea State	Calm
I24	10 Jun 2015	High Tide (ft)	3.76
I24	10 Jun 2015	High Tide Time	411
I24	10 Jun 2015	Low Tide (ft)	0.59
I24	10 Jun 2015	Low Tide Time	1037
I24	10 Jun 2015	Comments	
I24	18 Jun 2015	Depth (m)	11
I24	18 Jun 2015	Arrive Time	1200
I24	18 Jun 2015	Depart Time	1204
I24	18 Jun 2015	Air Temp (C)	18
I24	18 Jun 2015	Weather	Overcast
I24	18 Jun 2015	Visibility (mi)	6
I24	18 Jun 2015	Wind Speed (kts)	7
I24	18 Jun 2015	Wind Dir	N
I24	18 Jun 2015	Water Color	Green
I24	18 Jun 2015	Wave Ht Low (ft)	3
I24	18 Jun 2015	Wave Period (sec)	11
I24	18 Jun 2015	Sea State	Wind ripples
I24	18 Jun 2015	High Tide (ft)	3.94
I24	18 Jun 2015	High Tide Time	1146
I24	18 Jun 2015	Low Tide (ft)	-0.82
I24	18 Jun 2015	Low Tide Time	523
I24	18 Jun 2015	Comments	
I24	22 Jun 2015	Depth (m)	11
I24	22 Jun 2015	Arrive Time	1308
I24	22 Jun 2015	Depart Time	1319
I24	22 Jun 2015	Air Temp (C)	19
I24	22 Jun 2015	Weather	Cloudy
I24	22 Jun 2015	Visibility (mi)	6
I24	22 Jun 2015	Wind Speed (kts)	6
I24	22 Jun 2015	Wind Dir	SW
I24	22 Jun 2015	Water Color	Greenish-Brown
I24	22 Jun 2015	Wave Ht Low (ft)	2

Station	Date	Parameter	Value
I24	22 Jun 2015	Wave Period (sec)	13
I24	22 Jun 2015	Sea State	Calm
I24	22 Jun 2015	High Tide (ft)	3.91
I24	22 Jun 2015	High Tide Time	1458
I24	22 Jun 2015	Low Tide (ft)	0.62
I24	22 Jun 2015	Low Tide Time	804
I24	22 Jun 2015	Comments	
I25	06 Jun 2015	Depth (m)	9
I25	06 Jun 2015	Arrive Time	1133
I25	06 Jun 2015	Depart Time	1139
I25	06 Jun 2015	Air Temp (C)	17
I25	06 Jun 2015	Weather	Partly Cloudy
I25	06 Jun 2015	Visibility (mi)	20
I25	06 Jun 2015	Wind Speed (kts)	7
I25	06 Jun 2015	Wind Dir	SW
I25	06 Jun 2015	Water Color	Green
I25	06 Jun 2015	Wave Ht Low (ft)	3
I25	06 Jun 2015	Wave Period (sec)	11
I25	06 Jun 2015	Sea State	Wind ripples
I25	06 Jun 2015	High Tide (ft)	3.81
I25	06 Jun 2015	High Tide Time	1323
I25	06 Jun 2015	Low Tide (ft)	-0.6
I25	06 Jun 2015	Low Tide Time	650
I25	06 Jun 2015	Comments	
I25	10 Jun 2015	Depth (m)	9
I25	10 Jun 2015	Arrive Time	1128
I25	10 Jun 2015	Depart Time	1133
I25	10 Jun 2015	Air Temp (C)	18
I25	10 Jun 2015	Weather	Overcast
I25	10 Jun 2015	Visibility (mi)	10
I25	10 Jun 2015	Wind Speed (kts)	6
I25	10 Jun 2015	Wind Dir	S
I25	10 Jun 2015	Water Color	Green
I25	10 Jun 2015	Wave Ht Low (ft)	4
I25	10 Jun 2015	Wave Period (sec)	13
I25	10 Jun 2015	Sea State	Calm
I25	10 Jun 2015	High Tide (ft)	3.76
I25	10 Jun 2015	High Tide Time	411
I25	10 Jun 2015	Low Tide (ft)	0.59
I25	10 Jun 2015	Low Tide Time	1037
I25	10 Jun 2015	Comments	
I25	18 Jun 2015	Depth (m)	10
I25	18 Jun 2015	Arrive Time	1207
I25	18 Jun 2015	Depart Time	1211

Station	Date	Parameter	Value
I25	18 Jun 2015	Air Temp (C)	18
I25	18 Jun 2015	Weather	Overcast
I25	18 Jun 2015	Visibility (mi)	6
I25	18 Jun 2015	Wind Speed (kts)	5
I25	18 Jun 2015	Wind Dir	NW
I25	18 Jun 2015	Water Color	Green
I25	18 Jun 2015	Wave Ht Low (ft)	3
I25	18 Jun 2015	Wave Period (sec)	11
I25	18 Jun 2015	Sea State	Wind ripples
I25	18 Jun 2015	High Tide (ft)	3.94
I25	18 Jun 2015	High Tide Time	1146
I25	18 Jun 2015	Low Tide (ft)	-0.82
I25	18 Jun 2015	Low Tide Time	523
I25	18 Jun 2015	Comments	
I25	22 Jun 2015	Depth (m)	19
I25	22 Jun 2015	Arrive Time	1323
I25	22 Jun 2015	Depart Time	1326
I25	22 Jun 2015	Air Temp (C)	20
I25	22 Jun 2015	Weather	Cloudy
I25	22 Jun 2015	Visibility (mi)	6
I25	22 Jun 2015	Wind Speed (kts)	4
I25	22 Jun 2015	Wind Dir	SW
I25	22 Jun 2015	Water Color	Greenish-Brown
I25	22 Jun 2015	Wave Ht Low (ft)	2
I25	22 Jun 2015	Wave Period (sec)	13
I25	22 Jun 2015	Sea State	Calm
I25	22 Jun 2015	High Tide (ft)	3.91
I25	22 Jun 2015	High Tide Time	1458
I25	22 Jun 2015	Low Tide (ft)	0.62
I25	22 Jun 2015	Low Tide Time	804
I25	22 Jun 2015	Comments	
I26	06 Jun 2015	Depth (m)	10
I26	06 Jun 2015	Arrive Time	1146
I26	06 Jun 2015	Depart Time	1151
I26	06 Jun 2015	Air Temp (C)	17
I26	06 Jun 2015	Weather	Partly Cloudy
I26	06 Jun 2015	Visibility (mi)	20
I26	06 Jun 2015	Wind Speed (kts)	6
I26	06 Jun 2015	Wind Dir	SE
I26	06 Jun 2015	Water Color	Green
I26	06 Jun 2015	Wave Ht Low (ft)	3
I26	06 Jun 2015	Wave Period (sec)	11
I26	06 Jun 2015	Sea State	Wind ripples
I26	06 Jun 2015	High Tide (ft)	3.81
I26	06 Jun 2015	High Tide Time	1323

Station	Date	Parameter	Value
I26	06 Jun 2015	Low Tide (ft)	-0.6
I26	06 Jun 2015	Low Tide Time	650
I26	06 Jun 2015	Comments	
I26	10 Jun 2015	Depth (m)	9
I26	10 Jun 2015	Arrive Time	1138
I26	10 Jun 2015	Depart Time	1147
I26	10 Jun 2015	Air Temp (C)	18
I26	10 Jun 2015	Weather	Overcast
I26	10 Jun 2015	Visibility (mi)	10
I26	10 Jun 2015	Wind Speed (kts)	8
I26	10 Jun 2015	Wind Dir	SW
I26	10 Jun 2015	Water Color	Green
I26	10 Jun 2015	Wave Ht Low (ft)	4
I26	10 Jun 2015	Wave Period (sec)	13
I26	10 Jun 2015	Sea State	Calm
I26	10 Jun 2015	High Tide (ft)	3.76
I26	10 Jun 2015	High Tide Time	411
I26	10 Jun 2015	Low Tide (ft)	0.59
I26	10 Jun 2015	Low Tide Time	1037
I26	10 Jun 2015	Comments	Kelp debris
I26	18 Jun 2015	Depth (m)	10
I26	18 Jun 2015	Arrive Time	1215
I26	18 Jun 2015	Depart Time	1218
I26	18 Jun 2015	Air Temp (C)	18
I26	18 Jun 2015	Weather	Overcast
I26	18 Jun 2015	Visibility (mi)	6
I26	18 Jun 2015	Wind Speed (kts)	8
I26	18 Jun 2015	Wind Dir	SE
I26	18 Jun 2015	Water Color	Green
I26	18 Jun 2015	Wave Ht Low (ft)	3
I26	18 Jun 2015	Wave Period (sec)	11
I26	18 Jun 2015	Sea State	Wind ripples
I26	18 Jun 2015	High Tide (ft)	3.94
I26	18 Jun 2015	High Tide Time	1146
I26	18 Jun 2015	Low Tide (ft)	-0.82
I26	18 Jun 2015	Low Tide Time	523
I26	18 Jun 2015	Comments	
I26	22 Jun 2015	Depth (m)	10
I26	22 Jun 2015	Arrive Time	1334
I26	22 Jun 2015	Depart Time	1338
I26	22 Jun 2015	Air Temp (C)	20
I26	22 Jun 2015	Weather	Cloudy
I26	22 Jun 2015	Visibility (mi)	6
I26	22 Jun 2015	Wind Speed (kts)	10

Station	Date	Parameter	Value
I26	22 Jun 2015	Wind Dir	N
I26	22 Jun 2015	Water Color	Greenish-Brown
I26	22 Jun 2015	Wave Ht Low (ft)	2
I26	22 Jun 2015	Wave Period (sec)	13
I26	22 Jun 2015	Sea State	Calm
I26	22 Jun 2015	High Tide (ft)	3.91
I26	22 Jun 2015	High Tide Time	1458
I26	22 Jun 2015	Low Tide (ft)	0.62
I26	22 Jun 2015	Low Tide Time	804
I26	22 Jun 2015	Comments	
I32	06 Jun 2015	Depth (m)	11
I32	06 Jun 2015	Arrive Time	1201
I32	06 Jun 2015	Depart Time	1206
I32	06 Jun 2015	Air Temp (C)	17
I32	06 Jun 2015	Weather	Partly Cloudy
I32	06 Jun 2015	Visibility (mi)	20
I32	06 Jun 2015	Wind Speed (kts)	8
I32	06 Jun 2015	Wind Dir	S
I32	06 Jun 2015	Water Color	Green
I32	06 Jun 2015	Wave Ht Low (ft)	3
I32	06 Jun 2015	Wave Period (sec)	11
I32	06 Jun 2015	Sea State	Wind ripples
I32	06 Jun 2015	High Tide (ft)	3.81
I32	06 Jun 2015	High Tide Time	1323
I32	06 Jun 2015	Low Tide (ft)	-0.6
I32	06 Jun 2015	Low Tide Time	650
I32	06 Jun 2015	Comments	
I32	10 Jun 2015	Depth (m)	10
I32	10 Jun 2015	Arrive Time	1156
I32	10 Jun 2015	Depart Time	1207
I32	10 Jun 2015	Air Temp (C)	18
I32	10 Jun 2015	Weather	Overcast
I32	10 Jun 2015	Visibility (mi)	10
I32	10 Jun 2015	Wind Speed (kts)	8
I32	10 Jun 2015	Wind Dir	SW
I32	10 Jun 2015	Water Color	Green
I32	10 Jun 2015	Wave Ht Low (ft)	4
I32	10 Jun 2015	Wave Period (sec)	13
I32	10 Jun 2015	Sea State	Calm
I32	10 Jun 2015	High Tide (ft)	3.76
I32	10 Jun 2015	High Tide Time	411
I32	10 Jun 2015	Low Tide (ft)	0.59
I32	10 Jun 2015	Low Tide Time	1037
I32	10 Jun 2015	Comments	

Station	Date	Parameter	Value
I32	18 Jun 2015	Depth (m)	11
I32	18 Jun 2015	Arrive Time	1224
I32	18 Jun 2015	Depart Time	1229
I32	18 Jun 2015	Air Temp (C)	18
I32	18 Jun 2015	Weather	Overcast
I32	18 Jun 2015	Visibility (mi)	6
I32	18 Jun 2015	Wind Speed (kts)	5
I32	18 Jun 2015	Wind Dir	E
I32	18 Jun 2015	Water Color	Green
I32	18 Jun 2015	Wave Ht Low (ft)	3
I32	18 Jun 2015	Wave Period (sec)	11
I32	18 Jun 2015	Sea State	Wind ripples
I32	18 Jun 2015	High Tide (ft)	3.94
I32	18 Jun 2015	High Tide Time	1146
I32	18 Jun 2015	Low Tide (ft)	-0.82
I32	18 Jun 2015	Low Tide Time	523
I32	18 Jun 2015	Comments	
I32	22 Jun 2015	Depth (m)	11
I32	22 Jun 2015	Arrive Time	1348
I32	22 Jun 2015	Depart Time	1351
I32	22 Jun 2015	Air Temp (C)	20
I32	22 Jun 2015	Weather	Cloudy
I32	22 Jun 2015	Visibility (mi)	6
I32	22 Jun 2015	Wind Speed (kts)	8
I32	22 Jun 2015	Wind Dir	NE
I32	22 Jun 2015	Water Color	Greenish-Brown
I32	22 Jun 2015	Wave Ht Low (ft)	2
I32	22 Jun 2015	Wave Period (sec)	13
I32	22 Jun 2015	Sea State	Calm
I32	22 Jun 2015	High Tide (ft)	3.91
I32	22 Jun 2015	High Tide Time	1458
I32	22 Jun 2015	Low Tide (ft)	0.62
I32	22 Jun 2015	Low Tide Time	804
I32	22 Jun 2015	Comments	none
I39	06 Jun 2015	Depth (m)	20
I39	06 Jun 2015	Arrive Time	1032
I39	06 Jun 2015	Depart Time	1040
I39	06 Jun 2015	Air Temp (C)	17
I39	06 Jun 2015	Weather	Partly Cloudy
I39	06 Jun 2015	Visibility (mi)	20
I39	06 Jun 2015	Wind Speed (kts)	7
I39	06 Jun 2015	Wind Dir	NE
I39	06 Jun 2015	Water Color	Green
I39	06 Jun 2015	Wave Ht Low (ft)	3
I39	06 Jun 2015	Wave Period (sec)	11

Station	Date	Parameter	Value
I39	06 Jun 2015	Sea State	Wind ripples
I39	06 Jun 2015	High Tide (ft)	3.81
I39	06 Jun 2015	High Tide Time	1323
I39	06 Jun 2015	Low Tide (ft)	-0.6
I39	06 Jun 2015	Low Tide Time	650
I39	06 Jun 2015	Comments	Kelp
I39	10 Jun 2015	Depth (m)	18
I39	10 Jun 2015	Arrive Time	1024
I39	10 Jun 2015	Depart Time	1030
I39	10 Jun 2015	Air Temp (C)	18
I39	10 Jun 2015	Weather	Overcast
I39	10 Jun 2015	Visibility (mi)	10
I39	10 Jun 2015	Wind Speed (kts)	5
I39	10 Jun 2015	Wind Dir	NW
I39	10 Jun 2015	Water Color	Green
I39	10 Jun 2015	Wave Ht Low (ft)	4
I39	10 Jun 2015	Wave Period (sec)	13
I39	10 Jun 2015	Sea State	Calm
I39	10 Jun 2015	High Tide (ft)	3.76
I39	10 Jun 2015	High Tide Time	411
I39	10 Jun 2015	Low Tide (ft)	0.59
I39	10 Jun 2015	Low Tide Time	1037
I39	10 Jun 2015	Comments	Kelp debris
I39	18 Jun 2015	Depth (m)	20
I39	18 Jun 2015	Arrive Time	1124
I39	18 Jun 2015	Depart Time	1129
I39	18 Jun 2015	Air Temp (C)	18
I39	18 Jun 2015	Weather	Overcast
I39	18 Jun 2015	Visibility (mi)	6
I39	18 Jun 2015	Wind Speed (kts)	8
I39	18 Jun 2015	Wind Dir	SE
I39	18 Jun 2015	Water Color	Green
I39	18 Jun 2015	Wave Ht Low (ft)	3
I39	18 Jun 2015	Wave Period (sec)	11
I39	18 Jun 2015	Sea State	Wind ripples
I39	18 Jun 2015	High Tide (ft)	3.94
I39	18 Jun 2015	High Tide Time	1146
I39	18 Jun 2015	Low Tide (ft)	-0.82
I39	18 Jun 2015	Low Tide Time	523
I39	18 Jun 2015	Comments	
I39	22 Jun 2015	Depth (m)	19
I39	22 Jun 2015	Arrive Time	1211
I39	22 Jun 2015	Depart Time	1214
I39	22 Jun 2015	Air Temp (C)	19

Station	Date	Parameter	Value
I39	22 Jun 2015	Weather	Cloudy
I39	22 Jun 2015	Visibility (mi)	6
I39	22 Jun 2015	Wind Speed (kts)	7
I39	22 Jun 2015	Wind Dir	S
I39	22 Jun 2015	Water Color	Green
I39	22 Jun 2015	Wave Ht Low (ft)	2
I39	22 Jun 2015	Wave Period (sec)	13
I39	22 Jun 2015	Sea State	Calm
I39	22 Jun 2015	High Tide (ft)	3.91
I39	22 Jun 2015	High Tide Time	1458
I39	22 Jun 2015	Low Tide (ft)	0.62
I39	22 Jun 2015	Low Tide Time	804
I39	22 Jun 2015	Comments	
I40	06 Jun 2015	Depth (m)	10
I40	06 Jun 2015	Arrive Time	1112
I40	06 Jun 2015	Depart Time	1118
I40	06 Jun 2015	Air Temp (C)	17
I40	06 Jun 2015	Weather	Partly Cloudy
I40	06 Jun 2015	Visibility (mi)	20
I40	06 Jun 2015	Wind Speed (kts)	9
I40	06 Jun 2015	Wind Dir	SW
I40	06 Jun 2015	Water Color	Green
I40	06 Jun 2015	Wave Ht Low (ft)	3
I40	06 Jun 2015	Wave Period (sec)	11
I40	06 Jun 2015	Sea State	Wind ripples
I40	06 Jun 2015	High Tide (ft)	3.81
I40	06 Jun 2015	High Tide Time	1323
I40	06 Jun 2015	Low Tide (ft)	-0.6
I40	06 Jun 2015	Low Tide Time	650
I40	06 Jun 2015	Comments	
I40	10 Jun 2015	Depth (m)	10
I40	10 Jun 2015	Arrive Time	1101
I40	10 Jun 2015	Depart Time	1107
I40	10 Jun 2015	Air Temp (C)	18
I40	10 Jun 2015	Weather	Overcast
I40	10 Jun 2015	Visibility (mi)	10
I40	10 Jun 2015	Wind Speed (kts)	6
I40	10 Jun 2015	Wind Dir	W
I40	10 Jun 2015	Water Color	Green
I40	10 Jun 2015	Wave Ht Low (ft)	4
I40	10 Jun 2015	Wave Period (sec)	13
I40	10 Jun 2015	Sea State	Calm
I40	10 Jun 2015	High Tide (ft)	3.76
I40	10 Jun 2015	High Tide Time	411
I40	10 Jun 2015	Low Tide (ft)	0.59

Station	Date	Parameter	Value
I40	10 Jun 2015	Low Tide Time	1037
I40	10 Jun 2015	Comments	
I40	18 Jun 2015	Depth (m)	10
I40	18 Jun 2015	Arrive Time	1154
I40	18 Jun 2015	Depart Time	1157
I40	18 Jun 2015	Air Temp (C)	18
I40	18 Jun 2015	Weather	Overcast
I40	18 Jun 2015	Visibility (mi)	6
I40	18 Jun 2015	Wind Speed (kts)	6
I40	18 Jun 2015	Wind Dir	S
I40	18 Jun 2015	Water Color	Green
I40	18 Jun 2015	Wave Ht Low (ft)	3
I40	18 Jun 2015	Wave Period (sec)	11
I40	18 Jun 2015	Sea State	Wind ripples
I40	18 Jun 2015	High Tide (ft)	3.94
I40	18 Jun 2015	High Tide Time	1146
I40	18 Jun 2015	Low Tide (ft)	-0.82
I40	18 Jun 2015	Low Tide Time	523
I40	18 Jun 2015	Comments	
I40	22 Jun 2015	Depth (m)	10
I40	22 Jun 2015	Arrive Time	1255
I40	22 Jun 2015	Depart Time	1300
I40	22 Jun 2015	Air Temp (C)	19
I40	22 Jun 2015	Weather	Cloudy
I40	22 Jun 2015	Visibility (mi)	6
I40	22 Jun 2015	Wind Speed (kts)	7
I40	22 Jun 2015	Wind Dir	SW
I40	22 Jun 2015	Water Color	Greenish-Brown
I40	22 Jun 2015	Wave Ht Low (ft)	2
I40	22 Jun 2015	Wave Period (sec)	13
I40	22 Jun 2015	Sea State	Calm
I40	22 Jun 2015	High Tide (ft)	3.91
I40	22 Jun 2015	High Tide Time	1458
I40	22 Jun 2015	Low Tide (ft)	0.62
I40	22 Jun 2015	Low Tide Time	804
I40	22 Jun 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	06 Jun 2015	1	17.15	72.50	9.4	33.40	8.3	24.2	0.95
I19	06 Jun 2015	2	17.08	72.54	9.4	33.40	8.3	24.3	1.08
I19	06 Jun 2015	3	17.03	71.93	9.3	33.40	8.3	24.3	1.36
I19	06 Jun 2015	4	16.99	71.46	9.2	33.40	8.3	24.3	1.77
I19	06 Jun 2015	5	16.99	71.16	9.2	33.40	8.3	24.3	2.08
I19	06 Jun 2015	6	16.99	71.08	9.2	33.40	8.3	24.3	2.27
I19	06 Jun 2015	7	16.99	71.07	9.2	33.40	8.3	24.3	2.58
I19	06 Jun 2015	8	16.86	71.05	8.8	33.39	8.3	24.3	3.87
I19	06 Jun 2015	9	15.85	70.83	7.8	33.38	8.3	24.5	9.13
I19	06 Jun 2015	10	13.17	47.20	7.2	33.39	8.1	25.1	14.19
I19	10 Jun 2015	1	16.75	77.14	8.6	33.39	8.2	24.3	1.22
I19	10 Jun 2015	2	16.62	77.31	8.6	33.39	8.2	24.4	1.40
I19	10 Jun 2015	3	16.49	80.46	8.6	33.38	8.2	24.4	2.04
I19	10 Jun 2015	4	16.23	79.05	8.5	33.40	8.2	24.5	2.94
I19	10 Jun 2015	5	15.98	75.47	8.5	33.38	8.2	24.5	4.12
I19	10 Jun 2015	6	15.28	72.95	8.2	33.37	8.2	24.7	5.77
I19	10 Jun 2015	7	14.28	65.59	7.9	33.39	8.1	24.9	6.61
I19	10 Jun 2015	8	13.85	62.88	7.6	33.40	8.1	25.0	6.73
I19	10 Jun 2015	9	13.48	65.87	7.3	33.41	8.1	25.1	6.43
I19	10 Jun 2015	10	13.22	67.23	7.0	33.42	8.0	25.1	6.55
I19	18 Jun 2015	1	19.07	64.15	8.0	33.38	8.2	23.8	3.77
I19	18 Jun 2015	2	18.98	64.28	8.0	33.37	8.3	23.8	4.34
I19	18 Jun 2015	3	18.66	64.04	8.2	33.38	8.3	23.9	5.41
I19	18 Jun 2015	4	18.55	65.12	8.3	33.36	8.3	23.9	5.69
I19	18 Jun 2015	5	18.16	67.88	8.3	33.36	8.3	24.0	5.67
I19	18 Jun 2015	6	17.60	71.49	8.1	33.35	8.2	24.1	5.53
I19	18 Jun 2015	7	16.80	71.95	8.0	33.36	8.2	24.3	5.68
I19	18 Jun 2015	8	16.27	73.53	7.8	33.35	8.2	24.4	4.97
I19	18 Jun 2015	9	15.96	75.10	7.6	33.37	8.2	24.5	4.44
I19	18 Jun 2015	10	15.87	73.31	7.4	33.37	8.2	24.5	4.16
I19	22 Jun 2015	1	20.63	80.99	7.9	33.39	8.3	23.4	0.82
I19	22 Jun 2015	2	20.62	81.39	7.9	33.38	8.3	23.4	0.94
I19	22 Jun 2015	3	20.48	82.32	7.9	33.38	8.3	23.4	1.16
I19	22 Jun 2015	4	20.38	82.05	7.9	33.36	8.3	23.4	1.22
I19	22 Jun 2015	5	20.03	81.13	8.0	33.38	8.3	23.5	1.15
I19	22 Jun 2015	6	19.65	81.80	8.1	33.38	8.3	23.6	1.70
I19	22 Jun 2015	7	18.86	80.13	8.0	33.33	8.3	23.8	2.96
I19	22 Jun 2015	8	17.45	68.49	8.3	33.34	8.2	24.1	4.00
I19	22 Jun 2015	9	17.36	60.80	8.3	33.35	8.2	24.2	4.37
I19	22 Jun 2015	10	17.09	60.71	8.3	33.32	8.2	24.2	4.38
I24	06 Jun 2015	1	17.41	72.87	9.2	33.41	8.3	24.2	0.78
I24	06 Jun 2015	2	17.32	72.45	9.3	33.40	8.3	24.2	0.86
I24	06 Jun 2015	3	16.68	72.77	9.5	33.38	8.3	24.3	1.19
I24	06 Jun 2015	4	16.31	72.94	9.5	33.39	8.3	24.4	1.61
I24	06 Jun 2015	5	16.13	72.95	8.8	33.38	8.3	24.5	2.36
I24	06 Jun 2015	6	14.57	71.76	8.2	33.32	8.2	24.8	3.46
I24	06 Jun 2015	7	13.21	67.58	7.9	33.37	8.1	25.1	5.12

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I24	06 Jun 2015	8	12.48	67.74	7.4	33.39	8.1	25.2	5.80
I24	06 Jun 2015	9	12.42	68.58	7.1	33.39	8.0	25.3	5.79
I24	06 Jun 2015	10	12.43	67.03	6.9	33.40	8.0	25.3	5.55
I24	10 Jun 2015	1	16.84	73.33	8.8	33.39	8.2	24.3	1.50
I24	10 Jun 2015	2	16.74	73.24	8.8	33.39	8.2	24.3	1.80
I24	10 Jun 2015	3	16.49	74.00	8.7	33.39	8.2	24.4	2.66
I24	10 Jun 2015	4	16.03	72.86	8.7	33.35	8.2	24.5	4.53
I24	10 Jun 2015	5	15.20	70.01	8.7	33.39	8.2	24.7	7.24
I24	10 Jun 2015	6	14.95	67.71	8.4	33.38	8.2	24.7	9.26
I24	10 Jun 2015	7	14.01	67.73	7.8	33.35	8.2	24.9	9.65
I24	10 Jun 2015	8	13.47	66.44	7.2	33.41	8.1	25.1	7.58
I24	10 Jun 2015	9	13.23	63.25	6.8	33.41	8.0	25.1	5.30
I24	18 Jun 2015	1	19.17	67.12	8.5	33.39	8.3	23.8	2.78
I24	18 Jun 2015	2	18.92	67.21	8.5	33.37	8.3	23.8	2.82
I24	18 Jun 2015	3	18.35	68.28	8.6	33.37	8.3	23.9	3.24
I24	18 Jun 2015	4	17.87	74.25	8.7	33.37	8.3	24.1	5.00
I24	18 Jun 2015	5	17.52	70.38	8.7	33.36	8.3	24.1	5.81
I24	18 Jun 2015	6	17.17	70.92	8.6	33.36	8.3	24.2	6.12
I24	18 Jun 2015	7	16.94	73.24	8.4	33.36	8.2	24.3	6.00
I24	18 Jun 2015	8	16.27	74.81	8.0	33.37	8.2	24.4	5.88
I24	18 Jun 2015	9	16.10	74.10	7.9	33.38	8.2	24.5	5.60
I24	18 Jun 2015	10	15.84	75.28	7.6	33.37	8.2	24.5	4.27
I24	18 Jun 2015	11	15.56	76.82	7.5	33.39	8.2	24.6	2.90
I24	22 Jun 2015	1	20.76	85.84	7.7	33.41	8.2	23.3	0.46
I24	22 Jun 2015	2	20.76	86.15	7.7	33.40	8.2	23.3	0.50
I24	22 Jun 2015	3	20.70	85.97	7.7	33.40	8.2	23.4	0.60
I24	22 Jun 2015	4	20.52	86.52	7.8	33.39	8.2	23.4	0.69
I24	22 Jun 2015	5	20.33	86.83	7.8	33.38	8.3	23.4	0.69
I24	22 Jun 2015	6	20.01	86.04	7.9	33.39	8.3	23.5	0.61
I24	22 Jun 2015	7	19.85	87.55	7.9	33.39	8.2	23.6	0.71
I24	22 Jun 2015	8	19.57	88.52	7.8	33.37	8.3	23.6	0.95
I24	22 Jun 2015	9	18.71	86.15	7.9	33.27	8.2	23.8	1.23
I24	22 Jun 2015	10	16.72	85.13	8.0	33.29	8.2	24.3	1.75
I24	22 Jun 2015	11	16.00	79.10	8.0	33.34	8.2	24.5	2.03
I25	06 Jun 2015	1	17.33	71.81	9.6	33.40	8.3	24.2	0.81
I25	06 Jun 2015	2	17.30	72.39	9.6	33.40	8.3	24.2	0.84
I25	06 Jun 2015	3	16.92	72.99	9.6	33.38	8.3	24.3	1.12
I25	06 Jun 2015	4	16.23	72.78	9.5	33.37	8.3	24.4	1.59
I25	06 Jun 2015	5	15.74	73.43	9.3	33.38	8.3	24.6	2.16
I25	06 Jun 2015	6	15.56	73.27	8.8	33.38	8.2	24.6	2.90
I25	06 Jun 2015	7	14.38	71.89	7.9	33.34	8.2	24.8	3.19
I25	06 Jun 2015	8	13.62	68.87	7.6	33.38	8.1	25.0	2.44
I25	06 Jun 2015	9	13.50	72.60	7.5	33.38	8.1	25.0	2.18
I25	10 Jun 2015	1	16.99	76.45	8.6	33.40	8.3	24.3	1.28
I25	10 Jun 2015	2	16.88	76.24	8.7	33.40	8.3	24.3	1.53
I25	10 Jun 2015	3	16.71	75.89	8.6	33.39	8.3	24.3	2.15
I25	10 Jun 2015	4	16.42	74.60	8.2	33.38	8.2	24.4	3.42
I25	10 Jun 2015	5	15.70	70.56	8.1	33.39	8.2	24.6	5.55
I25	10 Jun 2015	6	15.00	65.96	8.3	33.37	8.2	24.7	7.94
I25	10 Jun 2015	7	14.30	63.92	7.9	33.39	8.2	24.9	7.95

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I25	10 Jun 2015	8	13.78	66.28	7.5	33.41	8.1	25.0	4.51
I25	18 Jun 2015	1	19.08	65.00	8.6	33.39	8.3	23.8	3.02
I25	18 Jun 2015	2	19.07	64.98	8.5	33.38	8.3	23.8	3.12
I25	18 Jun 2015	3	18.46	65.47	8.7	33.37	8.3	23.9	3.20
I25	18 Jun 2015	4	17.88	71.22	8.8	33.36	8.3	24.0	3.88
I25	18 Jun 2015	5	17.58	72.25	8.8	33.37	8.3	24.1	4.76
I25	18 Jun 2015	6	17.37	72.46	8.7	33.37	8.3	24.2	5.37
I25	18 Jun 2015	7	16.79	73.61	8.4	33.36	8.2	24.3	6.06
I25	18 Jun 2015	8	16.35	73.49	8.1	33.38	8.2	24.4	5.56
I25	18 Jun 2015	9	16.29	74.29	8.1	33.38	8.2	24.4	4.53
I25	22 Jun 2015	1	20.80	86.65	7.7	33.40	8.2	23.3	0.57
I25	22 Jun 2015	2	20.71	86.25	7.7	33.40	8.3	23.4	0.64
I25	22 Jun 2015	3	20.39	86.09	7.8	33.37	8.3	23.4	0.58
I25	22 Jun 2015	4	19.98	85.35	7.9	33.39	8.3	23.5	0.51
I25	22 Jun 2015	5	19.84	85.79	7.9	33.39	8.3	23.6	0.57
I25	22 Jun 2015	6	19.57	87.71	7.9	33.37	8.3	23.6	0.73
I25	22 Jun 2015	7	19.26	87.30	7.8	33.38	8.2	23.7	0.73
I25	22 Jun 2015	8	19.16	86.00	7.8	33.37	8.2	23.7	0.77
I25	22 Jun 2015	9	18.66	80.09	7.8	33.36	8.2	23.9	0.86
I26	06 Jun 2015	1	17.48	70.54	9.3	33.41	8.3	24.2	0.87
I26	06 Jun 2015	2	17.47	70.61	9.3	33.41	8.3	24.2	0.91
I26	06 Jun 2015	3	17.28	70.56	9.5	33.39	8.3	24.2	1.11
I26	06 Jun 2015	4	17.01	70.88	9.6	33.40	8.3	24.3	1.40
I26	06 Jun 2015	5	16.90	72.23	9.6	33.39	8.3	24.3	1.91
I26	06 Jun 2015	6	16.60	71.99	9.4	33.38	8.3	24.4	2.62
I26	06 Jun 2015	7	16.40	71.06	9.0	33.40	8.3	24.4	3.47
I26	06 Jun 2015	8	15.87	69.93	7.9	33.31	8.3	24.5	4.52
I26	06 Jun 2015	9	13.20	67.44	7.1	33.34	8.1	25.1	3.85
I26	10 Jun 2015	1	17.09	72.94	8.4	33.40	8.2	24.3	2.20
I26	10 Jun 2015	2	16.89	72.88	8.5	33.39	8.2	24.3	2.59
I26	10 Jun 2015	3	16.71	73.93	8.5	33.40	8.2	24.4	3.14
I26	10 Jun 2015	4	16.46	74.11	8.4	33.40	8.2	24.4	4.02
I26	10 Jun 2015	5	16.10	72.08	8.2	33.36	8.2	24.5	5.20
I26	10 Jun 2015	6	15.08	70.43	7.9	33.40	8.2	24.7	7.09
I26	10 Jun 2015	7	14.60	67.16	7.4	33.37	8.1	24.8	7.67
I26	10 Jun 2015	8	13.44	65.71	6.7	33.38	8.1	25.0	4.71
I26	10 Jun 2015	9	13.09	68.02	6.4	33.40	8.0	25.1	2.93
I26	18 Jun 2015	1	19.21	58.09	8.6	33.40	8.3	23.7	4.33
I26	18 Jun 2015	2	19.20	57.79	8.6	33.40	8.3	23.7	4.45
I26	18 Jun 2015	3	19.06	58.28	8.6	33.39	8.3	23.8	5.29
I26	18 Jun 2015	4	18.83	60.63	8.6	33.39	8.3	23.8	7.10
I26	18 Jun 2015	5	18.52	59.62	8.4	33.38	8.3	23.9	8.23
I26	18 Jun 2015	6	18.31	61.06	8.4	33.38	8.3	24.0	7.38
I26	18 Jun 2015	7	17.90	67.34	8.5	33.36	8.3	24.0	6.13
I26	18 Jun 2015	8	17.51	73.92	8.1	33.36	8.3	24.1	5.28
I26	18 Jun 2015	9	17.05	76.30	7.6	33.37	8.2	24.3	3.81
I26	22 Jun 2015	1	20.70	83.13	7.7	33.40	8.2	23.4	0.61
I26	22 Jun 2015	2	20.56	82.93	7.7	33.40	8.2	23.4	0.62
I26	22 Jun 2015	3	20.48	83.71	7.6	33.40	8.2	23.4	0.64

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I26	22 Jun 2015	4	20.29	84.51	7.7	33.39	8.2	23.5	0.67
I26	22 Jun 2015	5	20.26	84.81	7.7	33.40	8.2	23.5	0.66
I26	22 Jun 2015	6	20.02	85.42	7.8	33.38	8.2	23.5	0.59
I26	22 Jun 2015	7	19.88	86.48	7.9	33.39	8.2	23.6	0.61
I26	22 Jun 2015	8	19.79	88.44	7.9	33.39	8.2	23.6	0.82
I26	22 Jun 2015	9	19.40	87.67	8.1	33.32	8.2	23.6	0.98
I32	06 Jun 2015	1	17.36	62.70	9.1	33.42	8.3	24.2	1.58
I32	06 Jun 2015	2	17.35	62.96	9.1	33.42	8.3	24.2	1.78
I32	06 Jun 2015	3	17.34	63.62	9.1	33.42	8.3	24.2	2.32
I32	06 Jun 2015	4	17.32	63.88	9.1	33.42	8.3	24.2	2.99
I32	06 Jun 2015	5	17.31	63.57	9.0	33.42	8.3	24.2	3.45
I32	06 Jun 2015	6	17.31	63.66	9.0	33.42	8.3	24.2	3.60
I32	06 Jun 2015	7	17.29	63.78	8.9	33.42	8.3	24.2	3.66
I32	06 Jun 2015	8	17.25	63.99	8.8	33.42	8.3	24.2	3.72
I32	06 Jun 2015	9	17.22	64.38	8.3	33.42	8.3	24.2	3.82
I32	06 Jun 2015	10	15.93	64.19	6.9	33.18	8.3	24.4	4.96
I32	10 Jun 2015	1	17.11	72.08	8.4	33.40	8.2	24.3	1.67
I32	10 Jun 2015	2	17.05	74.26	8.4	33.40	8.2	24.3	1.93
I32	10 Jun 2015	3	16.81	73.84	8.3	33.40	8.2	24.3	2.79
I32	10 Jun 2015	4	16.67	71.46	8.2	33.38	8.2	24.4	3.59
I32	10 Jun 2015	5	15.54	70.40	8.2	33.39	8.2	24.6	4.99
I32	10 Jun 2015	6	14.68	68.85	8.2	33.37	8.2	24.8	6.22
I32	10 Jun 2015	7	13.74	68.83	8.3	33.38	8.2	25.0	6.80
I32	10 Jun 2015	8	13.15	73.10	8.0	33.38	8.1	25.1	7.73
I32	10 Jun 2015	9	12.75	73.21	7.3	33.38	8.1	25.2	7.30
I32	10 Jun 2015	10	12.59	64.99	6.8	33.40	8.0	25.2	6.47
I32	18 Jun 2015	1	19.21	65.67	6.9	33.27	8.3	23.6	5.22
I32	18 Jun 2015	2	19.19	65.59	7.0	33.33	8.3	23.7	5.42
I32	18 Jun 2015	3	19.16	65.20	7.4	33.36	8.3	23.7	6.04
I32	18 Jun 2015	4	18.95	63.78	7.8	33.46	8.3	23.9	5.64
I32	18 Jun 2015	5	18.68	60.90	8.4	33.43	8.3	23.9	4.90
I32	18 Jun 2015	6	18.35	62.94	8.6	33.42	8.3	24.0	6.00
I32	18 Jun 2015	7	18.23	67.12	8.5	33.40	8.3	24.0	7.26
I32	18 Jun 2015	8	17.85	68.38	8.1	33.41	8.3	24.1	8.01
I32	18 Jun 2015	9	17.17	62.32	7.7	33.41	8.2	24.3	8.21
I32	18 Jun 2015	10	16.65	59.67	7.4	33.41	8.2	24.4	6.41
I32	22 Jun 2015	2	20.71	84.93	7.9	33.41	8.3	23.4	0.58
I32	22 Jun 2015	3	20.69	84.84	7.9	33.41	8.3	23.4	0.67
I32	22 Jun 2015	4	20.69	84.05	7.9	33.41	8.3	23.4	0.75
I32	22 Jun 2015	5	20.69	83.72	7.9	33.41	8.3	23.4	0.82
I32	22 Jun 2015	6	20.49	83.55	8.0	33.39	8.3	23.4	0.90
I32	22 Jun 2015	7	20.21	82.22	8.2	33.40	8.3	23.5	1.09
I32	22 Jun 2015	8	20.10	82.90	8.1	33.40	8.3	23.5	1.70
I32	22 Jun 2015	9	19.77	78.28	8.1	33.37	8.3	23.6	3.33
I32	22 Jun 2015	10	19.06	66.83	8.1	33.38	8.3	23.8	6.20
I39	06 Jun 2015	1	16.76	74.93	9.4	33.39	8.3	24.3	0.79
I39	06 Jun 2015	2	16.74	75.33	9.5	33.39	8.3	24.3	0.81
I39	06 Jun 2015	3	16.66	75.61	9.5	33.38	8.3	24.4	0.86
I39	06 Jun 2015	4	16.49	75.60	9.6	33.39	8.3	24.4	1.08
I39	06 Jun 2015	5	16.43	75.03	9.3	33.38	8.3	24.4	1.60

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	06 Jun 2015	6	14.96	74.50	9.0	33.30	8.3	24.7	3.09
I39	06 Jun 2015	7	13.94	73.94	9.0	33.38	8.2	25.0	4.90
I39	06 Jun 2015	8	13.48	72.09	8.7	33.33	8.2	25.0	7.72
I39	06 Jun 2015	9	12.62	72.11	8.2	33.40	8.2	25.2	10.64
I39	06 Jun 2015	10	12.38	70.57	7.4	33.38	8.1	25.3	11.68
I39	06 Jun 2015	11	12.13	69.47	6.6	33.39	8.0	25.3	9.06
I39	06 Jun 2015	12	11.99	72.01	6.2	33.40	8.0	25.3	8.16
I39	06 Jun 2015	13	11.86	73.89	6.1	33.42	8.0	25.4	8.30
I39	06 Jun 2015	14	11.76	73.53	5.7	33.43	8.0	25.4	6.48
I39	06 Jun 2015	15	11.73	73.81	5.4	33.44	7.9	25.4	4.21
I39	06 Jun 2015	16	11.72	75.28	5.2	33.44	7.9	25.4	3.19
I39	06 Jun 2015	17	11.72	74.87	5.2	33.44	7.9	25.4	2.94
I39	06 Jun 2015	18	11.71	74.55	5.2	33.44	7.9	25.4	2.87
I39	10 Jun 2015	1	16.74	79.77	8.8	33.40	8.2	24.3	1.46
I39	10 Jun 2015	2	16.69	80.00	8.7	33.39	8.2	24.3	1.74
I39	10 Jun 2015	3	16.21	80.07	8.6	33.39	8.2	24.5	2.46
I39	10 Jun 2015	4	15.97	79.58	8.5	33.39	8.2	24.5	3.25
I39	10 Jun 2015	5	15.46	77.60	8.3	33.36	8.2	24.6	4.23
I39	10 Jun 2015	6	14.67	76.74	8.2	33.38	8.2	24.8	5.12
I39	10 Jun 2015	7	13.96	75.17	8.1	33.35	8.2	24.9	5.97
I39	10 Jun 2015	8	13.00	74.09	7.6	33.37	8.1	25.1	7.12
I39	10 Jun 2015	9	12.49	75.68	6.8	33.40	8.1	25.2	7.31
I39	10 Jun 2015	10	12.27	76.58	6.2	33.40	8.0	25.3	6.48
I39	10 Jun 2015	11	12.06	76.96	5.9	33.41	8.0	25.3	5.60
I39	10 Jun 2015	12	11.96	78.02	5.5	33.43	7.9	25.4	4.93
I39	10 Jun 2015	13	11.84	78.67	5.1	33.43	7.9	25.4	4.04
I39	10 Jun 2015	14	11.63	78.88	4.8	33.45	7.9	25.5	3.35
I39	10 Jun 2015	15	11.50	80.11	4.5	33.47	7.9	25.5	2.94
I39	10 Jun 2015	16	11.38	80.05	4.4	33.49	7.8	25.5	2.74
I39	10 Jun 2015	17	11.36	79.44	4.2	33.49	7.8	25.5	2.60
I39	10 Jun 2015	18	11.37	78.61	4.2	33.49	7.8	25.5	2.50
I39	18 Jun 2015	1	18.82	74.38	8.8	33.40	8.3	23.8	1.54
I39	18 Jun 2015	2	18.74	74.38	8.8	33.39	8.3	23.9	1.58
I39	18 Jun 2015	3	18.34	74.83	8.7	33.37	8.3	23.9	1.85
I39	18 Jun 2015	4	16.96	76.78	8.7	33.32	8.3	24.2	1.95
I39	18 Jun 2015	5	16.51	80.21	8.6	33.34	8.2	24.4	1.85
I39	18 Jun 2015	6	16.37	84.26	8.6	33.33	8.2	24.4	1.93
I39	18 Jun 2015	7	16.03	85.08	8.7	33.34	8.2	24.5	2.26
I39	18 Jun 2015	8	15.93	84.85	8.7	33.35	8.2	24.5	2.46
I39	18 Jun 2015	9	15.77	84.82	8.7	33.35	8.2	24.5	2.60
I39	18 Jun 2015	10	15.40	85.20	8.4	33.36	8.2	24.6	2.67
I39	18 Jun 2015	11	14.92	85.18	8.0	33.37	8.2	24.7	2.40
I39	18 Jun 2015	12	14.55	85.70	7.9	33.38	8.2	24.8	2.31
I39	18 Jun 2015	13	14.44	86.01	7.8	33.38	8.2	24.8	2.26
I39	18 Jun 2015	14	14.31	86.60	7.6	33.39	8.2	24.9	2.19
I39	18 Jun 2015	15	14.23	86.53	7.3	33.40	8.2	24.9	2.02
I39	18 Jun 2015	16	14.17	85.81	7.0	33.41	8.1	24.9	1.73
I39	18 Jun 2015	17	14.12	85.15	6.7	33.41	8.1	24.9	1.54
I39	18 Jun 2015	18	14.01	83.82	6.5	33.42	8.1	25.0	1.33
I39	22 Jun 2015	1	20.34	86.87	7.8	33.41	8.3	23.5	0.38
I39	22 Jun 2015	2	20.27	87.18	7.9	33.41	8.3	23.5	0.41
I39	22 Jun 2015	3	20.14	87.92	7.9	33.41	8.3	23.5	0.40

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ-t)	Chlor (μg/L)
I39	22 Jun 2015	4	20.02	88.14	8.0	33.41	8.3	23.5	0.44
I39	22 Jun 2015	5	19.87	87.90	8.1	33.40	8.3	23.6	0.52
I39	22 Jun 2015	6	19.81	86.77	8.1	33.40	8.3	23.6	0.60
I39	22 Jun 2015	7	19.69	86.56	8.0	33.40	8.3	23.6	0.62
I39	22 Jun 2015	8	19.48	87.25	8.1	33.39	8.3	23.7	0.73
I39	22 Jun 2015	9	19.18	86.47	8.2	33.40	8.3	23.8	0.93
I39	22 Jun 2015	10	18.94	84.81	8.2	33.39	8.3	23.8	1.18
I39	22 Jun 2015	11	18.26	84.46	8.1	33.36	8.3	24.0	1.57
I39	22 Jun 2015	12	17.17	83.53	8.1	33.31	8.3	24.2	1.97
I39	22 Jun 2015	13	15.82	82.40	8.2	33.33	8.2	24.5	2.38
I39	22 Jun 2015	14	15.26	80.87	8.2	33.35	8.2	24.6	2.68
I39	22 Jun 2015	15	14.94	80.94	8.2	33.30	8.2	24.7	2.67
I39	22 Jun 2015	16	14.50	82.31	8.3	33.30	8.2	24.8	2.43
I39	22 Jun 2015	17	14.47	85.02	8.1	33.30	8.2	24.8	2.44
I39	22 Jun 2015	18	14.44	84.78	7.9	33.32	8.2	24.8	2.15
I40	06 Jun 2015	1	17.36	71.08	8.9	33.40	8.3	24.2	0.87
I40	06 Jun 2015	2	17.14	71.25	8.8	33.40	8.3	24.3	1.14
I40	06 Jun 2015	3	16.81	70.06	8.6	33.40	8.3	24.3	1.74
I40	06 Jun 2015	4	16.72	65.96	8.5	33.40	8.3	24.4	2.32
I40	06 Jun 2015	5	16.56	64.03	8.2	33.39	8.3	24.4	3.20
I40	06 Jun 2015	6	15.94	62.13	8.2	33.37	8.3	24.5	4.57
I40	06 Jun 2015	7	15.11	59.43	8.0	33.38	8.2	24.7	7.76
I40	06 Jun 2015	8	14.15	53.93	7.8	33.35	8.2	24.9	14.39
I40	06 Jun 2015	9	13.43	32.19	7.6	33.39	8.1	25.1	18.02
I40	06 Jun 2015	10	13.21	26.23	7.5	33.39	8.1	25.1	18.97
I40	10 Jun 2015	1	16.79	74.64	8.7	33.40	8.2	24.3	1.39
I40	10 Jun 2015	2	16.76	75.30	8.7	33.40	8.2	24.3	1.61
I40	10 Jun 2015	3	16.64	75.33	8.7	33.38	8.2	24.4	2.31
I40	10 Jun 2015	4	16.31	74.64	8.6	33.40	8.2	24.4	3.05
I40	10 Jun 2015	5	15.91	73.29	8.4	33.39	8.2	24.5	4.43
I40	10 Jun 2015	6	15.60	70.55	8.3	33.40	8.2	24.6	5.75
I40	10 Jun 2015	7	15.32	67.75	8.3	33.39	8.2	24.7	7.39
I40	10 Jun 2015	8	14.66	65.91	8.1	33.39	8.2	24.8	8.14
I40	10 Jun 2015	9	14.18	64.46	7.7	33.38	8.1	24.9	7.85
I40	18 Jun 2015	1	19.17	62.94	8.4	33.38	8.3	23.7	3.38
I40	18 Jun 2015	2	18.80	62.87	8.5	33.37	8.3	23.8	3.46
I40	18 Jun 2015	3	18.31	66.79	8.7	33.37	8.3	23.9	4.19
I40	18 Jun 2015	4	18.07	71.35	8.7	33.37	8.3	24.0	5.49
I40	18 Jun 2015	5	17.40	69.66	8.3	33.34	8.3	24.1	6.07
I40	18 Jun 2015	6	16.42	71.03	8.0	33.38	8.2	24.4	6.32
I40	18 Jun 2015	7	16.37	71.79	7.8	33.37	8.2	24.4	6.90
I40	18 Jun 2015	8	16.35	69.28	7.5	33.37	8.2	24.4	6.80
I40	18 Jun 2015	9	16.09	67.09	7.3	33.38	8.2	24.5	5.78
I40	18 Jun 2015	10	16.05	66.43	7.2	33.39	8.1	24.5	5.27
I40	22 Jun 2015	1	20.87	73.14	7.7	33.39	8.3	23.3	1.27
I40	22 Jun 2015	2	20.84	72.91	7.7	33.39	8.3	23.3	1.34
I40	22 Jun 2015	3	20.75	73.61	7.8	33.38	8.3	23.3	1.44
I40	22 Jun 2015	4	20.34	74.20	8.0	33.37	8.3	23.4	1.26
I40	22 Jun 2015	5	19.86	76.93	8.1	33.38	8.3	23.6	1.43
I40	22 Jun 2015	6	19.73	80.73	8.0	33.38	8.3	23.6	1.96
I40	22 Jun 2015	7	19.57	76.14	7.8	33.38	8.3	23.6	2.52

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	pH	Dens (σ -t)	Chlor (μ g/L)
I40	22 Jun 2015	8	19.16	76.79	7.6	33.35	8.2	23.7	3.43
I40	22 Jun 2015	9	18.19	70.27	7.5	33.33	8.2	23.9	3.85
I40	22 Jun 2015	10	17.23	59.37	7.5	33.33	8.2	24.2	4.66

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	06 Jun 2015	6	LMA	LAB DUPLICATE	<2	<2	<2
I19	10 Jun 2015	6	ZV	LAB DUPLICATE	28e	2e	<2
I19	18 Jun 2015	6	LMA	LAB DUPLICATE	<2	<2	<2
I19	22 Jun 2015	6	JT	LAB DUPLICATE	<2	<2	<2
I40	06 Jun 2015	6	LMA	LAB DUPLICATE	<20	<2	<2
I40	10 Jun 2015	6	SR	LAB DUPLICATE	40e	<2	<2
I40	18 Jun 2015	6	LMA	LAB DUPLICATE	4e	<2	<2
I40	22 Jun 2015	6	JT	LAB DUPLICATE	<2	<2	<2
S12	02 Jun 2015		LMA	FIELD DUPLICATE	20e	6e	10e
S12	02 Jun 2015		LMA	LAB DUPLICATE	20e	8e	10e
S12	09 Jun 2015		LMA	FIELD DUPLICATE	4e	2e	<2
S12	09 Jun 2015		LMA	LAB DUPLICATE	20e	4e	<2
S12	16 Jun 2015		AR	FIELD DUPLICATE	<20	<2	2e
S12	16 Jun 2015		AR	LAB DUPLICATE	<20	<2	2e
S12	23 Jun 2015		SR	FIELD DUPLICATE	<20	<2	2e
S12	23 Jun 2015		SR	LAB DUPLICATE	20e	2e	2e
S12	30 Jun 2015		LMA	FIELD DUPLICATE	40e	16e	30e
S12	30 Jun 2015		LMA	LAB DUPLICATE	<200	16e	16e

ns = not sampled

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