

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

NPDES Permit No. CA0109045 SDRWQCB Order No. R9-2013-0006

DECEMBER 2018

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





January 31, 2019

Mr. David W. 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 December 2018 Monthly Receiving Waters Monitoring Report for the South Bay Ocean Outfall, South Bay Water Reclamation Plant as required per Order No. R9-2013-0006 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, 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 as amended Order Nos. R9-2014-0094 and R9-2017-0024, 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 Director, Public Utilities Department

TS/amw

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 as amended by Order Nos. R9-2014-0071 and R9-2017-0023, NPDES Permit No. CA0109045, for the South Bay Water Reclamation Plant (SBWRP), South Bay Ocean Outfall (SBOO). This report includes receiving waters monitoring data collected from all shore, kelp and offshore stations specified in the above order. Data for influent and effluent monitoring activities for the SBWRP are presented in separate reports.

MATERIALS AND METHODS

Shore Stations

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

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

Kelp Bed Stations

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

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

Seawater samples at the kelp bed stations are primarily collected using a CTD-integrated rosette sampler with Niskin bottles. Aliquots for bacteriological analyses were drawn from these bottles into sterile sample bottles for processing at the City's Marine Microbiology Laboratory. Water column profiles of the various physical/chemical parameters were taken using a CTD. The CTD collected these physical/chemical data at a rate ≥ 4 scans per second. The data were then internally averaged using the CTD proprietary software, Seasoft, to create water column profiles equivalent

to one reading per meter. Additionally, CTD profile data for each water sample depth are presented with the bacteriological data.

Offshore Stations

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

At these offshore stations, water samples for bacteriological analyses were 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:

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

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

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

Single Sample Maximums:

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

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

Quality controls of bacteriological data include laboratory and field duplicate analyses. Laboratory duplicates are performed on approximately 10% of the water quality samples, while field duplicates are performed six times a month (see Appendix A). Laboratory duplicates represent two aliquots of the original sample that are split in the laboratory and analyzed by the same analyst using identical procedures within the same analytical run. The results of these analyses provide a measure of intra-analyst precision. In contrast, field duplicates represent two separate samples collected at the same time from the same site, which are handled under identical circumstances and treated exactly the same throughout field and lab procedures. The results of these analyses provide a measure of precision associated with sample collection, preservation, storage, and lab procedures. The sign test (see Gilbert, 1987) is used to statistically compare both the results from the laboratory duplicates, as well as the results from the field duplicates. These data will be further analyzed in the City's 2018 Quality Assurance Report, which will be completed in March 2019.

SUMMARY OF RESULTS

Shoreline Water Quality Sampling

- o Because of site access restrictions in Mexico, the South Bay shoreline sampling is typically 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.
 - On December 11 and 26, logistical issues prevented samples from stations S0, S2 and S3 from being delivered to the City's Marine Microbiology Lab. Additionally, these stations were sampled on December 19 instead of being sampled on December 18 along with the eight shore stations located north of the border.
- During December, six of the eight shore stations located north of the border were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards. These standards do not apply to stations located in Mexican waters.
 - The 30-day geometric mean standard for total coliform densities was exceeded at stations S4, S5, S10, and S11 on one or more days during the month.

- The 30-day geometric mean standard for fecal coliform densities was exceeded at stations S4, S5, S10, and S11 on one or more days during the month.
- The 30-day geometric mean standard for *Enterococcus* bacteria was exceeded at stations S4, S5, S6, S10, and S11 on one or more days during the month.
- The single sample maximum (SSM) standard for total coliform densities was exceeded at stations S4, S5, S10, and S11 on one or more days during the month.
- The SSM standard for fecal coliform densities was exceeded at stations S4, S5, S10, and S11 on one or more days during the month.
- The SSM standard for *Enterococcus* bacteria was exceeded at stations S4, S5, S6, S10, S11, and S12 on one or more days during December.
- The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations S4, S5, S6, S10, and S11 on one or more days during December.
- Per permit requirements, resamples were collected in response to these SSM exceedances (see Table 2.8 for details).
- Although the Ocean Plan standards do not apply to these stations, bacteria densities exceeded one or more benchmark levels (i.e., total coliforms >10,000 CFU/100mL; fecal coliforms >400 CFU/100 mL; *Enterococcus* >104 CFU/100 mL; total >1000 CFU/100 mL & F:T ratio >0.1) in seawater samples collected at stations S0 and S2 on December 19.
- Historical analyses of Ocean Plan compliance rates for the South Bay outfall shore and kelp 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 *Biennial Receiving Waters Monitoring and Assessment Report for the Point Loma and South Bay Ocean Outfalls* for details

(http://www.sandiego.gov/mwwd/environment/oceanmonitor/reports/ index.shtml).

• Notable observations for December included a sewage-like odor at station S5 on December 13.

Kelp Bed Water Quality Sampling

- The seven kelp bed water quality stations (I19, I24, I25, I26, I32, I39, I40) were sampled five times during the month (i.e. December 3, 10, 17, 20, 27).
- During December, six of the seven stations were out of compliance with various Ocean Plan water contact standards.
 - The 30-day geometric mean standard for total coliform densities was exceeded at stations I19, I24, and I40 on one or more days during the month.
 - The 30-day geometric mean standard for fecal coliform densities was exceeded at stations I19, I24, and I40 on one or more days during the month.
 - The 30-day geometric mean standard for *Enterococcus* bacteria was exceeded at stations I19, I24, I25, and I40 on one or more days during the month.
 - The single sample maximum (SSM) standard for total coliform densities was exceeded at stations I19, I24, I25, and I40 on one or more days during the month.
 - The SSM standard for fecal coliform densities was exceeded at stations I19, I24, I25, and I40 on one or more days during the month.

- The SSM standard for *Enterococcus* bacteria was exceeded at stations I19, I24, I26, I32, and I40 on one or more days during December.
- The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at stations I19, I24, I25, and I40 on one or more days during December.
- Water column temperatures ranged from 14.30 to 17.13°C. The difference between surface and bottom waters ranged from 0.01 to 2.32°C, indicating the water column was stratified at some of these sites during the month.
- Chlorophyll *a* concentrations ranged from 0.57 to 5.03 μ g/L at the kelp bed 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 December at the offshore stations. The next quarterly sampling is scheduled for February 2019.

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TABLES AND FIGURES



Figure 1.1 Station Map

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
02 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
03 Dec 2018	10*	6*	4*	4*	11*	12*	5*	6*
04 Dec 2018	24	30	14	5	9	52	22	8
05 Dec 2018	24	30	14	5	9	52	22	8
06 Dec 2018	14*	115	13*	4*	8*	159	82	11*
07 Dec 2018	14*	263	13*	4*	8*	343	197	11*
08 Dec 2018	14*	263	13*	4*	8*	343	197	11*
09 Dec 2018	14*	434	13*	4*	8*	480	324	11*
10 Dec 2018	14*	434	13*	4*	8*	480	324	11*
11 Dec 2018	57	586	34	5	7	744	528	20
12 Dec 2018	57	586	34	5	7	744	528	20
13 Dec 2018	277	1737	128	6*	6*	1404	1218	20*
14 Dec 2018	484	2224	128	6*	6*	1840	1356	20*
15 Dec 2018	484	2224	128	6*	6*	1840	1356	20*
16 Dec 2018	732	2007	128	6*	6*	2284	1356	20*
17 Dec 2018	732	2007	128	6*	6*	2284	1356	20*
18 Dec 2018	730	1576	94	8	7	2535	889	28
19 Dec 2018	730	1576	94	8	7	2535	889	28
20 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
21 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
22 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
23 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
24 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
25 Dec 2018	1537	2439	202	11*	10*	5180	1621	30*
26 Dec 2018	1814	2016	173	13	11	5740	1301	28
27 Dec 2018	5580	4025	423	20*	10*	12993	2673	53*
28 Dec 2018	5580	4025	423	20*	10*	12993	2673	53*
29 Dec 2018	6228	4025	423	20*	10*	13220	2673	53*
30 Dec 2018	6228	4025	423	20*	10*	13220	2673	53*
31 Dec 2018	5176	4025	423	20*	10*	11238	2673	53*

* Geometric mean calculated using n<5

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
01 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
02 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
03 Dec 2018	4*	4*	2*	2*	2*	8*	2*	4*
04 Dec 2018	8	18	5	2	2	22	7	3
05 Dec 2018	8	18	5	2	2	22	7	3
06 Dec 2018	6*	90	6*	2*	2*	41	38	2*
07 Dec 2018	6*	203	6*	2*	2*	76	89	2*
08 Dec 2018	6*	203	6*	2*	2*	76	89	2*
09 Dec 2018	6*	240	6*	2*	2*	104	124	2*
10 Dec 2018	6*	240	6*	2*	2*	104	124	2*
11 Dec 2018	23	273	12	2	2	159	157	3
12 Dec 2018	23	273	12	2	2	159	157	3
13 Dec 2018	113	614	24	2*	2*	353	296	3*
14 Dec 2018	162	771	24	2*	2*	522	286	3*
15 Dec 2018	162	771	24	2*	2*	522	286	3*
16 Dec 2018	246	629	24	2*	2*	652	286	3*
17 Dec 2018	246	629	24	2*	2*	652	286	3*
18 Dec 2018	213	467	16	2	3	649	174	4
19 Dec 2018	213	467	16	2	3	649	174	4
20 Dec 2018	415	686	24	2*	3*	1158	286	5*
21 Dec 2018	415	686	24	2*	3*	1158	286	5*
22 Dec 2018	415	686	24	2*	3*	1158	286	5*
23 Dec 2018	415	686	24	2*	3*	1158	286	5*
24 Dec 2018	415	686	24	2*	3*	1158	286	5*
25 Dec 2018	415	686	24	2*	3*	1158	286	5*
26 Dec 2018	438	530	24	2	3	1142	200	4
27 Dec 2018	1103	926	39	2*	3*	2043	334	5*
28 Dec 2018	1103	926	39	2*	3*	2043	334	5*
29 Dec 2018	1213	926	39	2*	3*	2384	334	5*
30 Dec 2018	1213	926	39	2*	3*	2384	334	5*
31 Dec 2018	885	926	39	2*	3*	1937	334	5*

* Geometric mean calculated using n<5

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

Date	S4	S5	S6	S 8	S9	S10	S11	S12
01 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
02 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
03 Dec 2018	11*	2*	4*	2*	2*	5*	3*	2*
04 Dec 2018	15	11	6	2	2	13	5	2
05 Dec 2018	15	11	6	2	2	13	5	2
06 Dec 2018	10*	62	7*	2*	2*	39	7*	2*
07 Dec 2018	10*	149	7*	2*	2*	80	7*	2*
08 Dec 2018	10*	149	7*	2*	2*	80	7*	2*
09 Dec 2018	10*	182	7*	2*	2*	83	7*	2*
10 Dec 2018	10*	182	7*	2*	2*	83	7*	2*
11 Dec 2018	27	222	17	2	3	108	16	5
12 Dec 2018	27	222	17	2	3	108	16	5
13 Dec 2018	81	430	35	2*	2*	221	38	7
14 Dec 2018	109	525	41	2*	2*	308	46	7
15 Dec 2018	109	525	41	2*	2*	308	46	7
16 Dec 2018	128	460	41	2*	2*	280	46	7
17 Dec 2018	128	460	41	2*	2*	280	46	7
18 Dec 2018	113	619	38	3	4	272	43	9
19 Dec 2018	113	619	38	3	4	272	43	9
20 Dec 2018	160	1300	48	3*	4*	377	57	12
21 Dec 2018	160	1300	48	3*	4*	377	57	12
22 Dec 2018	160	949	48	3*	4*	377	57	12
23 Dec 2018	160	949	48	3*	4*	377	57	12
24 Dec 2018	160	949	48	3*	4*	377	57	12
25 Dec 2018	160	949	48	3*	4*	377	57	12
26 Dec 2018	191	711	39	3	4	425	47	9
27 Dec 2018	385	1159	65	3*	5*	668	74	12
28 Dec 2018	385	1159	65	3*	5*	668	74	12
29 Dec 2018	389	1159	65	3*	5*	775	74	12
30 Dec 2018	389	1159	65	3*	5*	775	74	12
31 Dec 2018	321	1159	65	3*	5*	662	74	12

* Geometric mean calculated using n<5

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

Date	S4	S5	S6	S 8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	Е	IC	IC
06 Dec 2018	ns	E	ns	ns	ns	E	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	IC	ns	ns	ns	IC	IC	ns
11 Dec 2018	E	IC	IC	IC	IC	E	E	IC
13 Dec 2018	E	Е	IC	ns	ns	Е	IC	ns
14 Dec 2018	IC	E	ns	ns	ns	E	IC	ns
16 Dec 2018	IC	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2018	IC	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	Е	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	Е	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance E = Exceedance ns = not sampled

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

Date	S4	S5	S6	S 8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	E	E	IC
06 Dec 2018	ns	E	ns	ns	ns	E	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	E	ns	ns	ns	E	E	ns
11 Dec 2018	E	E	IC	IC	IC	E	E	IC
13 Dec 2018	E	E	IC	ns	ns	Е	IC	ns
14 Dec 2018	E	E	ns	ns	ns	Е	IC	ns
16 Dec 2018	E	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	E	IC	IC
26 Dec 2018	E	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	Е	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	Е	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance E = Exceedance ns = not sampled

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

Date	S4	S5	S6	S 8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	Е	IC	IC
06 Dec 2018	ns	E	ns	ns	ns	E	ns	ns
07 Dec 2018	ns	E	ns	ns	ns	E	ns	ns
09 Dec 2018	ns	E	ns	ns	ns	IC	ns	ns
11 Dec 2018	E	E	Е	IC	IC	E	E	E
13 Dec 2018	Е	E	Е	ns	ns	Е	E	IC
14 Dec 2018	E	E	IC	ns	ns	E	E	ns
16 Dec 2018	E	E	ns	ns	ns	E	IC	ns
18 Dec 2018	IC	E	IC	IC	IC	E	IC	IC
20 Dec 2018	ns	E	ns	ns	ns	IC	ns	ns
22 Dec 2018	ns	IC	ns	ns	ns	ns	ns	ns
26 Dec 2018	E	IC	IC	IC	IC	E	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance E = Exceedance

ns = not sampled

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

Date	S4	S5	S6	S8	S9	S10	S11	S12
04 Dec 2018	IC	E	IC	IC	IC	IC	E	IC
06 Dec 2018	ns	E	ns	ns	ns	IC	E	ns
07 Dec 2018	ns	E	ns	ns	ns	E	E	ns
09 Dec 2018	ns	IC	ns	ns	ns	Е	E	ns
11 Dec 2018	E	E	E	IC	IC	E	IC	IC
13 Dec 2018	E	E	IC	ns	ns	E	IC	ns
14 Dec 2018	E	E	ns	ns	ns	E	IC	ns
16 Dec 2018	E	IC	ns	ns	ns	E	ns	ns
18 Dec 2018	IC	IC	IC	IC	IC	IC	IC	IC
26 Dec 2018	E	IC	IC	IC	IC	IC	IC	IC
27 Dec 2018	E	ns	ns	ns	ns	IC	ns	ns
29 Dec 2018	E	ns	ns	ns	ns	E	ns	ns
31 Dec 2018	IC	ns	ns	ns	ns	IC	ns	ns

IC = In Compliance

E = Exceedance

ns = not sampled

Summary of water quality parameters at the SBOO shore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal), and *Enterococcus* (Entero) are reported as CFU/100 mL. The fecal:total coliform ratio (F:T) is unitless. Comments follow the data summary.

Station	Date	Time	Total	Fecal	Entero	F:T
S0	04 Dec 2018	1025	40e	6e	6e	0.15
S0	19 Dec 2018	1120	4400	100e	320e	0.02
S2	04 Dec 2018	1115	<200	30e	2e	0.15
S2	19 Dec 2018	1250	2600e	180e	340e	0.07
S3	04 Dec 2018	1130	800e	40	8e	0.05
S3	19 Dec 2018	1230	580	60	40	0.10
S4	04 Dec 2018	857	800e	100	46	0.12
S4	11 Dec 2018	847	>16000	3800e	1200e	0.24
S4	13 Dec 2018	846	>16000	12000	3200	0.75
S4	14 Dec 2018	905	7800	1000	480	0.13
S4	16 Dec 2018	1010	8800	3000e	340e	0.34
S4	18 Dec 2018	859	720	78	46	0.11
S4	26 Dec 2018	915	5800	640	660	0.11
S4	27 Dec 2018	1109	>16000	3200e	550e	0.20
S4	29 Dec 2018	806	15000e	2600e	420	0.17
S4	31 Dec 2018	823	980	52	58	0.05
S5	04 Dec 2018	1014	>16000	12000	4800	0.75
S5	06 Dec 2018	1132	>16000	>12000	>12000	0.75
S5	07 Dec 2018	1028	>16000	>12000	>12000	0.75
S5	09 Dec 2018	948	8800	660	600e	0.07
S5	11 Dec 2018	1002	4800	680	880	0.14
S5	13 Dec 2018	952	12000	1300	400	0.11
S5	14 Dec 2018	1008	>16000	4800	2600e	0.30
S5	16 Dec 2018	1045	800	100	140e	0.12
S5	18 Dec 2018	1034	140e	24e	>12000	0.17
S5	20 Dec 2018	931	ns	ns	14000e	ns
S5	22 Dec 2018	928	ns	ns	30e	ns
S5	26 Dec 2018	820	300e	40	22e	0.13
S6	04 Dec 2018	1024	3800e	160e	32e	0.04
S6	11 Dec 2018	1016	1400e	160e	600	0.11
S6	13 Dec 2018	1008	1600	80e	130e	0.05
S6	14 Dec 2018	1022	ns	ns	96	ns
S6	18 Dec 2018	1048	20e	<2	26e	0.10
S6	26 Dec 2018	845	80e	22e	12e	0.28
S8	04 Dec 2018	1143	20e	<2	<2	0.10
S8	11 Dec 2018	1153	<20	2e	<2	0.10
S8	18 Dec 2018	1157	<20	<2	8e	0.10
S8	26 Dec 2018	801	<20	<2	<2	0.10
S9	04 Dec 2018	1226	4e	<2	<2	0.50
S9	11 Dec 2018	1229	6e	4e	4e	0.67
S9	18 Dec 2018	1235	20e	4e	20e	0.20
S9	26 Dec 2018	745	<20	<2	4e	0.10

Station	Date	Time	Total	Fecal	Entero	F:T
S10	04 Dec 2018	851	>16000	980	540	0.06
S10	06 Dec 2018	1018	>16000	1400e	2800e	0.09
S10	07 Dec 2018	915	>16000	1800e	3200e	0.11
S10	09 Dec 2018	834	3600e	680	100e	0.19
S10	11 Dec 2018	841	>16000	3000e	700	0.19
S10	13 Dec 2018	840	>16000	>12000	4200	0.75
S10	14 Dec 2018	900	>16000	>12000	4400	0.75
S10	16 Dec 2018	958	>16000	4800	120e	0.30
S10	18 Dec 2018	853	7200	620	200e	0.09
S10	20 Dec 2018	925	ns	ns	72	ns
S10	26 Dec 2018	849	>16000	1000e	1600e	0.06
S10	27 Dec 2018	1100	>16000	1200e	460	0.07
S10	29 Dec 2018	740	>16000	13000e	4600	0.81
S10	31 Dec 2018	803	1600e	160e	84	0.10
S11	04 Dec 2018	1019	7200	840	100e	0.12
S11	06 Dec 2018	1136	>16000	>12000	ns	0.75
S11	07 Dec 2018	1045	>16000	6000	ns	0.38
S11	09 Dec 2018	1004	6400	940	ns	0.15
S11	11 Dec 2018	1008	>16000	800e	460	0.05
S11	13 Dec 2018	1000	3200e	320e	150e	0.10
S11	14 Dec 2018	1017	3200e	220e	110	0.07
S11	16 Dec 2018	1053	ns	ns	50	ns
S11	18 Dec 2018	1040	<20	<2	26e	0.10
S11	26 Dec 2018	834	180e	8e	12e	0.04
S12	04 Dec 2018	1035	<20	<2	<2	0.10
S12	11 Dec 2018	1026	200e	14e	180e	0.07
S12	13 Dec 2018	1018	ns	ns	10e	ns
S12	18 Dec 2018	1016	100e	12e	36e	0.12
S12	26 Dec 2018	911	<20	<2	2e	0.10

ns = not sampled ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S10	06 Dec 2018			Resample
S11	06 Dec 2018			Resample
S5	06 Dec 2018			Resample
S10	07 Dec 2018			Resample
S11	07 Dec 2018			Resample
S5	07 Dec 2018			Resample
S10	09 Dec 2018			Resample
S11	09 Dec 2018			Resample
S5	09 Dec 2018			Resample
S0	11 Dec 2018			Samples were collected in Mexico but
				not transported to IBWC
S2	11 Dec 2018			Samples were collected in Mexico but
				not transported to IBWC
S3	11 Dec 2018			Samples were collected in Mexico but
				not transported to IBWC
S10	13 Dec 2018			Resample
S11	13 Dec 2018			Resample
S12	13 Dec 2018			Resample
S4	13 Dec 2018			Resample
S5	13 Dec 2018			Resample
S6	13 Dec 2018			Resample
S10	14 Dec 2018			Resample
S11	14 Dec 2018			Resample
S4	14 Dec 2018			Resample
S5	14 Dec 2018			Resample
S6	14 Dec 2018			Resample
S10	16 Dec 2018			Resample
S11	16 Dec 2018			Resample
S4	16 Dec 2018			Resample
S5	16 Dec 2018			Resample
S0	19 Dec 2018			Mexico stations sampled on the next
				day of regular sampling
S2	19 Dec 2018			Mexico stations sampled on the next
				day of regular sampling
S3	19 Dec 2018			Mexico stations sampled on the next
				day of regular sampling
S10	20 Dec 2018			Resample
S5	20 Dec 2018			Resample
S5	22 Dec 2018			Resample
S0	26 Dec 2018			Sample delivery from IBWC was not
				available due to government shutdown
S2	26 Dec 2018			Sample delivery from IBWC was not
				available due to government shutdown
S3	26 Dec 2018			Sample delivery from IBWC was not
				available due to government shutdown

Station	Date	Depth	Parameter	Comments
S4	27 Dec 2018			Resample
S10	27 Dec 2018			Resample
S4	29 Dec 2018			Resample
S10	29 Dec 2018			Resample
S10	31 Dec 2018			Resample
S4	31 Dec 2018			Resample

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

Station	Date	Parameter	Value
S0	04 Dec 2018	Arrive Time	1025
S0	04 Dec 2018	Weather	Sunny
S0	04 Dec 2018	Wind Speed (kts)	1.2
S0	04 Dec 2018	Wind Dir	SW
S0	04 Dec 2018	Animal Life	5 Birds
S0	04 Dec 2018	Floatables	None
S0	04 Dec 2018	Water Color	Green
S0	04 Dec 2018	Current Direction	Ν
S0	04 Dec 2018	Water Temp (C)	13
S0	04 Dec 2018	Wave Height Low (ft)	2
S0	04 Dec 2018	High Tide (ft)	6
S0	04 Dec 2018	High Tide Time	641
S0	04 Dec 2018	Low Tide (ft)	1
S0	04 Dec 2018	Low Tide Time	1224
S0	04 Dec 2018	Comments	Kelp; Algae; Water clear; 1.0L/s water flowing from storm drain
S0	19 Dec 2018	Arrive Time	1120
S0	19 Dec 2018	Weather	Sunny
S0	19 Dec 2018	Wind Speed (kts)	0.9
S0	19 Dec 2018	Wind Dir	SW
S0	19 Dec 2018	Animal Life	15 Birds; 5 Dogs
S0	19 Dec 2018	Floatables	None
S0	19 Dec 2018	Water Color	Green
S0	19 Dec 2018	Current Direction	Ν
S0	19 Dec 2018	Water Temp (C)	14
S0	19 Dec 2018	Wave Height Low (ft)	2
S0	19 Dec 2018	High Tide (ft)	5.7
S0	19 Dec 2018	High Tide Time	605
S0	19 Dec 2018	Low Tide (ft)	-0.1
S0	19 Dec 2018	Low Tide Time	1307
S0	19 Dec 2018	Comments	15 Persons; Water clear; 0.5 L/s water flowing from storm drain
S2	04 Dec 2018	Arrive Time	1115
S2	04 Dec 2018	Weather	Sunny
S2	04 Dec 2018	Wind Speed (kts)	1.1
S2	04 Dec 2018	Wind Dir	SW
S2	04 Dec 2018	Animal Life	20 Birds
S2	04 Dec 2018	Floatables	None
S2	04 Dec 2018	Water Color	Green
S2	04 Dec 2018	Current Direction	Ν
S2	04 Dec 2018	Water Temp (C)	14
S2	04 Dec 2018	Wave Height Low (ft)	2
S2	04 Dec 2018	High Tide (ft)	6
S2	04 Dec 2018	High Tide Time	641
S2	04 Dec 2018	Low Tide (ft)	1
S2	04 Dec 2018	Low Tide Time	1224
S2	04 Dec 2018	Comments	15 Persons; Water clear; No flow from storm drain
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S2	19 Dec 2018	Arrive Time	1250
S2	19 Dec 2018	Weather	Sunny
S2	19 Dec 2018	Wind Speed (kts)	1.2

S2 19 Dec 2018 Wind Dir SW S2 19 Dec 2018 Animal Life 20 Birds; 5 Dogs S2 19 Dec 2018 Floatables None S2 19 Dec 2018 Water Color Green S2 19 Dec 2018 Water Temp (C) 14 S2 19 Dec 2018 Water Temp (C) 14 S2 19 Dec 2018 High Tide (ft) 3.7 S2 19 Dec 2018 High Tide (ft) -0.1 S2 19 Dec 2018 Low Tide Time 1907 S2 19 Dec 2018 Low Tide Time 1307 S2 19 Dec 2018 Low Tide Time 1307 S2 19 Dec 2018 Kom Tide Time 10 Persons; Water clear; No flow from storm drain S3 04 Dec 2018 Wind Dir SW SW S3 04 Dec 2018 Wind Dir SW SW S3 04 Dec 2018 Wind Speed (kts) 1 SW S3 04 Dec 2018 Wind Mare Toolor Green SW <	
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S3 19 Dec 2018 Wind Dir SW S3 19 Dec 2018 Animal Life 15 Birds; 5 Dogs	
S3 19 Dec 2018 Floatables None	
S3 19 Dec 2018 Water Color Green	
S3 19 Dec 2018 Current Direction N	
S3 19 Dec 2018 Water Temp (C) 14	
S3 19 Dec 2018 Wave Height Low (ft) 2	
S3 19 Dec 2018 High Tide (ft) 5.7	
S3 19 Dec 2018 High Tide Time 605	
S3 19 Dec 2018 Low Tide (ft) -0.1	
S3 19 Dec 2018 Low Tide Time 1307	
S3 19 Dec 2018 Comments 15 Persons; Water clear; No flow from storm drain; Red alga	e
S4 04 Dec 2018 Arrive Time 857	
S4 04 Dec 2018 Weather Sunny	1
S4 04 Dec 2018 Wind Speed (kts) 12.1	
S4 04 Dec 2018 Wind Dir N	
S4 04 Dec 2018 Animal Life None	
S4 04 Dec 2018 Floatables None	
S4 04 Dec 2018 Water Color Brown	
S4 04 Dec 2018 Current Direction N	
S4 04 Dec 2018 Water Temp (C) 13	
S4 04 Dec 2018 Wave Height Low (ft) 2	

Station	Date	Parameter	Value
S4	04 Dec 2018	High Tide (ft)	6
S4	04 Dec 2018	High Tide Time	641
S4	04 Dec 2018	Low Tide (ft)	1
S4	04 Dec 2018	Low Tide Time	1224
S4	04 Dec 2018	Comments	Seagrass; Water clear
S4	11 Dec 2018	Arrive Time	847
S4	11 Dec 2018	Weather	Partly Cloudy
S4	11 Dec 2018	Wind Speed (kts)	0.9
S4	11 Dec 2018	Wind Dir	E
S4	11 Dec 2018	Animal Life	None
S4	11 Dec 2018	Floatables	None
S4	11 Dec 2018	Water Color	Green
S4	11 Dec 2018	Current Direction	N
S4	11 Dec 2018	Water Temp (C)	15
S4	11 Dec 2018	Wave Height Low (ft)	2
S4	11 Dec 2018	High Tide (ft)	5
S4	11 Dec 2018	High Tide Time	1025
S4	11 Dec 2018	Low Tide (ft)	2.6
S4	11 Dec 2018	Low Tide Time	426
S4	11 Dec 2018	Comments	Seagrass; Water clear
04	11 200 2010	Commente	
S4	13 Dec 2018	Arrive Time	846
S4	13 Dec 2018	Weather	Sunny
S4	13 Dec 2018	Wind Speed (kts)	5.4
S4	13 Dec 2018	Wind Dir	NE
S4	13 Dec 2018 13 Dec 2018	Animal Life	None
S4	13 Dec 2018	Floatables	None
S4	13 Dec 2018	Water Color	Green
S4 S4	13 Dec 2018	Current Direction	N
S4	13 Dec 2018	Water Temp (C)	16
S4 S4	13 Dec 2018	Wave Height Low (ft)	3
S4 S4	13 Dec 2018	High Tide (ft)	4.1
S4	13 Dec 2018	High Tide Time	1154
S4	13 Dec 2018 13 Dec 2018	Low Tide (ft)	3
S4	13 Dec 2018 13 Dec 2018	. ,	631
S4	13 Dec 2018 13 Dec 2018	Low Tide Time Comments	Resample; Kelp; Seagrass; Water clear
- 54	13 Dec 2010	Comments	Resample, Relp, Seaglass, Waler clear
S4	14 Dec 2018	Arrive Time	905
54 S4	14 Dec 2018 14 Dec 2018	Weather	Cloudy
54 S4	14 Dec 2018 14 Dec 2018	Weather Wind Speed (kts)	3.3
54 S4	14 Dec 2018 14 Dec 2018	Wind Dir	5.5 W
54 S4	14 Dec 2018 14 Dec 2018	Animal Life	15 Plovers
54 S4	14 Dec 2018 14 Dec 2018	Floatables	None
54 S4	14 Dec 2018 14 Dec 2018	Water Color	Green
54 S4	14 Dec 2018 14 Dec 2018	Current Direction	N
54 S4	14 Dec 2018 14 Dec 2018	Water Temp (C)	14
54 S4	14 Dec 2018 14 Dec 2018	Water Temp (C) Wave Height Low (ft)	3
54 S4			
	14 Dec 2018	High Tide (ft)	3.7
S4	14 Dec 2018	High Tide Time	1310
S4	14 Dec 2018	Low Tide (ft)	2.9
S4	14 Dec 2018	Low Tide Time	814 Becomplex Kolpy Water closer
S4	14 Dec 2018	Comments	Resample; Kelp; Water clear
	40 D 0040	A muis (a. Time -	4040
S4	16 Dec 2018	Arrive Time	1010

S4 16 Dec 2018 Weather Partly Cloudy S4 16 Dec 2018 Wind Dir W S4 16 Dec 2018 Animal Life None S4 16 Dec 2018 Water Color Green S4 16 Dec 2018 Water Color Green S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 High Tide (1) 4.4 S4 16 Dec 2018 Low Tide Time 1057 S4 16 Dec 2018 Low Tide Time 1057 S4 18 Dec 2018 Krive Time 859 S4 18 Dec 2018 Mind Dir E S4 18 Dec 2018 Wind Dir E S4 18	Station	Date	Parameter	Value
S4 16 Dec 2018 Wind Dir W S4 16 Dec 2018 Animal Life None S4 16 Dec 2018 Rotables None S4 16 Dec 2018 Water Color Green S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 High Tide (ft) 4.4 S4 16 Dec 2018 Low Tide Time 1057 S4 16 Dec 2018 Low Tide Time 1057 S4 16 Dec 2018 Kinv Time 859 S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Water Color Green S4 18 Dec 2018 Water Color None S4 18 Dec 2018 Water Color S S4 18 Dec 2018 Water Color S S4 18 Dec	S4	16 Dec 2018	Weather	Partly Cloudy
S4 16 Dec 2018 Animal Life None S4 16 Dec 2018 Vider Color Green S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Low Tide (ft) 2 S4 16 Dec 2018 Low Tide (ft) 2 S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 18 Dec 2018 Wind Speed (tk) 5.1 S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Wate	S4	16 Dec 2018	Wind Speed (kts)	1.6
S4 16 Dec 2018 Floatables None S4 16 Dec 2018 Water Color Green S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Water Temp (L) 4.4 S4 16 Dec 2018 High Tide (ff) 4.4 S4 16 Dec 2018 Low Tide (ff) 2 S4 16 Dec 2018 Low Tide (ff) 2 S4 16 Dec 2018 Low Tide filme 1057 S4 16 Dec 2018 Low Tide filme 1057 S4 16 Dec 2018 Low Tide filme 859 S4 18 Dec 2018 Arrive Time 859 S4 18 Dec 2018 Wind Speed (kts) 5.1 S4 18 Dec 2018 Water Color Green S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Temp (C) 16	S4	16 Dec 2018	Wind Dir	W
S4 16 Dec 2018 Water Color Green N S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 Wave Height Low (th) 4 S4 16 Dec 2018 High Tide (th) 4 S4 16 Dec 2018 High Tide Time 424 S4 16 Dec 2018 Low Tide (th) 2 S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 18 Dec 2018 Wind Speed (kts) 5.1 S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Wind Color Green S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec	S4	16 Dec 2018	Animal Life	None
S4 16 Dec 2018 Current Direction N S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 High Tde (ft) 4 S4 16 Dec 2018 High Tde (ft) 4.4 S4 16 Dec 2018 Low Tide (ft) 2 S4 16 Dec 2018 Low Tide (ft) 2 S4 16 Dec 2018 Low Tide ftme 1057 S4 16 Dec 2018 Low Tide ftme 1057 S4 16 Dec 2018 Arrive Time 859 S4 18 Dec 2018 Wind Speed (kts) 5.1 S4 18 Dec 2018 Minal Life None S4 18 Dec 2018 Water Color Green S4 18 Dec 2018 Water Color Green S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Heigh Tude (ft) 5.2 S4 18 Dec 2018 Ware Heigh Tude (ft) 5.2	S4	16 Dec 2018	Floatables	None
S4 16 Dec 2018 Water Temp (C) 14 S4 16 Dec 2018 High Tde (ft) 4.4 S4 16 Dec 2018 High Tde (ft) 2.4 S4 16 Dec 2018 Low Tide (ft) 2.2 S4 16 Dec 2018 Low Tide (ft) 2.5 S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 16 Dec 2018 Wind Speed (kts) 5.1 S4 18 Dec 2018 Wind Dir E S4 18 Dec 2018 Wind Speed (kts) 5.1 S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Kelp; Seagrass; Water cle	S4	16 Dec 2018	Water Color	Green
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S4 16 Dec 2018 Wave Height Low (ft) 4 S4 16 Dec 2018 High Tide (ft) 4.4 S4 16 Dec 2018 Low Tide (ft) 2 S4 16 Dec 2018 Low Tide Time 1057 S4 16 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 18 Dec 2018 Comments Resample; Kelp; 4 Persons; Water clear S4 18 Dec 2018 Wind Speed (ks) 5.1 S4 18 Dec 2018 Wind Speed (ks) 5.1 S4 18 Dec 2018 Minal Life None S4 18 Dec 2018 Minal Life None S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Water Temp (C) 15 S4 18 Dec 2018 Low Tide (ft) 5.2 S4 18 Dec 2018	S4	16 Dec 2018	Water Temp (C)	14
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S426 Dec 2018Water ColorGreenS426 Dec 2018Current DirectionES426 Dec 2018Water Temp (C)15S426 Dec 2018Wave Height Low (ft)6S426 Dec 2018High Tide (ft)5.6S426 Dec 2018High Tide (ft)2S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide (ft)2S426 Dec 2018Comments509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018FloatablesNone	1 1			None
S426 Dec 2018Current DirectionES426 Dec 2018Water Temp (C)15S426 Dec 2018Wave Height Low (ft)6S426 Dec 2018High Tide (ft)5.6S426 Dec 2018High Tide Time1105S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide (ft)509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone				
S4 26 Dec 2018 Water Temp (C) 15 S4 26 Dec 2018 Wave Height Low (ft) 6 S4 26 Dec 2018 High Tide (ft) 5.6 S4 26 Dec 2018 High Tide Time 1105 S4 26 Dec 2018 Low Tide (ft) 2 S4 26 Dec 2018 Low Tide (ft) 2 S4 26 Dec 2018 Low Tide Time 509 S4 26 Dec 2018 Comments Kelp; Seagrass; Debris; 3 Persons; Water clear S4 27 Dec 2018 Arrive Time 1109 S4 27 Dec 2018 Weather Partly Cloudy S4 27 Dec 2018 Wind Speed (kts) 3.8 S4 27 Dec 2018 Wind Dir W S4 27 Dec 2018 Animal Life 3 Horses S4 27 Dec 2018 Animal Life 3 Horses S4 27 Dec 2018 Floatables None				
S426 Dec 2018Wave Height Low (ft)6S426 Dec 2018High Tide (ft)5.6S426 Dec 2018High Tide Time1105S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide Time509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Mind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	S4		Water Temp (C)	
S426 Dec 2018High Tide (ft)5.6S426 Dec 2018High Tide Time1105S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide Time509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	1			
S426 Dec 2018High Tide Time1105S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide Time509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	1		• • • • •	
S426 Dec 2018Low Tide (ft)2S426 Dec 2018Low Tide Time509S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone				
S4 S426 Dec 2018 26 Dec 2018Low Tide Time Comments509 			-	
S426 Dec 2018CommentsKelp; Seagrass; Debris; 3 Persons; Water clearS427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone			ι,	
S427 Dec 2018Arrive Time1109S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone				
S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone				
S427 Dec 2018WeatherPartly CloudyS427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	S4	27 Dec 2018	Arrive Time	1109
S427 Dec 2018Wind Speed (kts)3.8S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	S4	27 Dec 2018	Weather	Partly Cloudy
S427 Dec 2018Wind DirWS427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	S4	27 Dec 2018	Wind Speed (kts)	
S427 Dec 2018Animal Life3 HorsesS427 Dec 2018FloatablesNone	1			
S4 27 Dec 2018 Floatables None	1		Animal Life	3 Horses
	1 1	27 Dec 2018		None
	S4	27 Dec 2018	Water Color	Green
S4 27 Dec 2018 Current Direction N	1		Current Direction	

Station	Date	Parameter	Value
S4	27 Dec 2018	Water Temp (C)	14
S4	27 Dec 2018	Wave Height Low (ft)	3
S4	27 Dec 2018	High Tide (ft)	4.1
S4	27 Dec 2018	High Tide Time	103
S4	27 Dec 2018	Low Tide (ft)	2.2
S4	27 Dec 2018	Low Tide Time	623
S4	27 Dec 2018	Comments	Resample; Kelp; 3 Persons; Water clear
S4	29 Dec 2018	Arrive Time	806
S4	29 Dec 2018	Weather	Sunny
S4	29 Dec 2018	Wind Speed (kts)	1.9
S4	29 Dec 2018	Wind Dir	S
S4	29 Dec 2018	Animal Life	33 Shorebirds; 20 Cormorants
S4	29 Dec 2018	Floatables	None
S4	29 Dec 2018	Water Color	Green
S4	29 Dec 2018	Current Direction	S
S4	29 Dec 2018	Water Temp (C)	11
S4	29 Dec 2018	Wave Height Low (ft)	4
S4	29 Dec 2018	High Tide (ft)	4.6
S4	29 Dec 2018	High Tide Time	310
S4	29 Dec 2018	Low Tide (ft)	1.8
S4	29 Dec 2018	Low Tide Time	930
S4	29 Dec 2018	Comments	Resample; Debris; Water clear
			······································
S4	31 Dec 2018	Arrive Time	823
S4	31 Dec 2018	Weather	Cloudy
S4	31 Dec 2018	Wind Speed (kts)	7.7
S4	31 Dec 2018	Wind Dir	Ν
S4	31 Dec 2018	Animal Life	10 Shorebirds; 8 Birds
S4	31 Dec 2018	Floatables	None
S4	31 Dec 2018	Water Color	Green
S4	31 Dec 2018	Current Direction	Ν
S4	31 Dec 2018	Water Temp (C)	14
S4	31 Dec 2018	Wave Height Low (ft)	3
S4	31 Dec 2018	High Tide (ft)	5.3
S4	31 Dec 2018	High Tide Time	457
S4	31 Dec 2018	Low Tide (ft)	0.5
S4	31 Dec 2018	Low Tide Time	0
S4	31 Dec 2018	Comments	Resample; Debris; Water clear
S5	04 Dec 2018	Arrive Time	1014
S5	04 Dec 2018	Weather	Partly Cloudy
S5	04 Dec 2018	Wind Speed (kts)	5.3
S5	04 Dec 2018	Wind Dir	Ν
S5	04 Dec 2018	Animal Life	None
S5	04 Dec 2018	Floatables	None
S5	04 Dec 2018	Water Color	Green
S5	04 Dec 2018	Current Direction	Ν
S5	04 Dec 2018	Water Temp (C)	15
S5	04 Dec 2018	Wave Height Low (ft)	2
S5	04 Dec 2018	High Tide (ft)	6
S5	04 Dec 2018	High Tide Time	641
S5	04 Dec 2018	Low Tide (ft)	1
S5	04 Dec 2018	Low Tide Time	1224
S5	04 Dec 2018	Comments	Kelp; Seagrass; Water clear
- •			1, 0,,

Station	Date	Parameter	Value
0.5	06 Dee 0040	Arrivo Tirro	1122
S5	06 Dec 2018	Arrive Time	1132
S5	06 Dec 2018	Weather	Partly Cloudy
S5	06 Dec 2018	Wind Speed (kts)	15.3
S5	06 Dec 2018	Wind Dir	S
S5	06 Dec 2018	Animal Life	None
S5	06 Dec 2018	Floatables	None
S5	06 Dec 2018	Water Color	Brown
S5	06 Dec 2018	Current Direction	N
S5	06 Dec 2018	Water Temp (C)	15
S5	06 Dec 2018	Wave Height Low (ft)	3
S5	06 Dec 2018	High Tide (ft)	6.2
S5	06 Dec 2018	High Tide Time	746
S5	06 Dec 2018	Low Tide (ft)	-0.7
S5	06 Dec 2018	Low Tide Time	1451
S5	06 Dec 2018	Comments	Resample; Kelp; Water clear
S5	07 Dec 2018	Arrive Time	1028
S5	07 Dec 2018	Weather	Cloudy
S5	07 Dec 2018	Wind Speed (kts)	4
S5	07 Dec 2018	Wind Dir	SE
S5	07 Dec 2018	Animal Life	None
S5	07 Dec 2018	Floatables	None
S5	07 Dec 2018	Water Color	Brown
S5	07 Dec 2018	Current Direction	SE
S5	07 Dec 2018	Water Temp (C)	16
S5	07 Dec 2018	Wave Height Low (ft)	4
S5	07 Dec 2018	High Tide (ft)	6.1
S5	07 Dec 2018	High Tide Time	817
S5	07 Dec 2018	Low Tide (ft)	-0.7
S5	07 Dec 2018	Low Tide Time	1528
S5	07 Dec 2018	Comments	Resample; Kelp; Seagrass; 1 Jogger; Water turbid; Detergent-like
			odor
S5	09 Dec 2018	Arrive Time	948
S5	09 Dec 2018	Weather	Sunny
S5	09 Dec 2018	Wind Speed (kts)	5.6
S5	09 Dec 2018	Wind Dir	S
S5	09 Dec 2018	Animal Life	None
S5	09 Dec 2018	Floatables	None
S5	09 Dec 2018	Water Color	Green
S5	09 Dec 2018	Current Direction	S
S5	09 Dec 2018	Water Temp (C)	17
S5	09 Dec 2018	Wave Height Low (ft)	3
S5	09 Dec 2018	High Tide (ft)	5.7
S5	09 Dec 2018	High Tide Time	919
S5	09 Dec 2018	Low Tide (ft)	2.2
S5	09 Dec 2018	Low Tide Time	314
S5	09 Dec 2018	Comments	Resample; Kelp; Seagrass; Algae; Debris; Water clear
S5	11 Dec 2018	Arrive Time	1002 Deaths Classifie
S5	11 Dec 2018	Weather	Partly Cloudy
S5	11 Dec 2018	Wind Speed (kts)	5.3
S5	11 Dec 2018	Wind Dir	N
S5	11 Dec 2018	Animal Life	None

S5 1			
	11 Dec 2018	Floatables	None
S5 1	11 Dec 2018	Water Color	Green
S5 1	11 Dec 2018	Current Direction	Ν
S5 1	11 Dec 2018	Water Temp (C)	16
S5 1	11 Dec 2018	Wave Height Low (ft)	3
S5 1	11 Dec 2018	High Tide (ft)	5
1 1	11 Dec 2018	High Tide Time	1025
1 1	11 Dec 2018	Low Tide (ft)	2.6
	11 Dec 2018	Low Tide Time	426
	11 Dec 2018	Comments	Kelp; Seagrass; Water clear
S5 1	13 Dec 2018	Arrive Time	952
1	13 Dec 2018	Weather	Sunny
	13 Dec 2018	Wind Speed (kts)	1.3
	13 Dec 2018	Wind Dir	NE
	13 Dec 2018	Animal Life	None
	13 Dec 2018	Floatables	None
	13 Dec 2018	Water Color	Brown
1	13 Dec 2018	Current Direction	N
1	13 Dec 2018	Water Temp (C)	15
	13 Dec 2018	Wave Height Low (ft)	3
1	13 Dec 2018	High Tide (ft)	4.1
	13 Dec 2018	High Tide Time	1154
	13 Dec 2018	Low Tide (ft)	3
	13 Dec 2018	Low Tide Time	631
S5 1	13 Dec 2018	Comments	Resample; Seagrass; Sewage-like odor; Water clear
S5 1	14 Dec 2018	Arrive Time	1008
S5 1	14 Dec 2018	Weather	Cloudy
S5 1	14 Dec 2018	Wind Speed (kts)	1.7
S5 1	14 Dec 2018	Wind Dir	SE
S5 1	14 Dec 2018	Animal Life	None
S5 1	14 Dec 2018	Floatables	None
S5 1	14 Dec 2018	Water Color	Green
S5 1	14 Dec 2018	Current Direction	Ν
S5 1	14 Dec 2018	Water Temp (C)	14
	14 Dec 2018	Wave Height Low (ft)	2
	14 Dec 2018	High Tide (ft)	3.7
	14 Dec 2018	High Tide Time	1310
	14 Dec 2018	Low Tide (ft)	2.9
	14 Dec 2018	Low Tide Time	814
S5 1	14 Dec 2018	Comments	Resample; Kelp; Seagrass; Water clear
	16 Dec 2018	Arrive Time	1045
1	16 Dec 2018	Weather	Partly Cloudy
	16 Dec 2018	Wind Speed (kts)	1.2
	16 Dec 2018	Wind Dir	W
	16 Dec 2018	Animal Life	None
	16 Dec 2018	Floatables	None
S5 1	16 Dec 2018	Water Color	Green
S5 1	16 Dec 2018	Current Direction	Ν
S5 1	16 Dec 2018	Water Temp (C)	14
S5 1	16 Dec 2018	Wave Height Low (ft)	4
S5 1	16 Dec 2018	High Tide (ft)	3.3

Station	Date	Parameter	Value
S5	16 Dec 2018	Low Tide (ft)	2
S5	16 Dec 2018	Low Tide Time	1057
S5	16 Dec 2018	Comments	Resample; Kelp; 1 Jogger; Water clear
S5	18 Dec 2018	Arrive Time	1034
S5	18 Dec 2018	Weather	Sunny
S5	18 Dec 2018	Wind Speed (kts)	4.3
S5	18 Dec 2018	Wind Dir	Ν
S5	18 Dec 2018	Animal Life	None
S5	18 Dec 2018	Floatables	None
S5	18 Dec 2018	Water Color	Green
S5	18 Dec 2018	Current Direction	Ν
S5	18 Dec 2018	Water Temp (C)	16
S5	18 Dec 2018	Wave Height Low (ft)	5
S5	18 Dec 2018	High Tide (ft)	5.2
S5	18 Dec 2018	High Tide Time	531
S5	18 Dec 2018	Low Tide (ft)	0.6
S5	18 Dec 2018	Low Tide Time	27
S5	18 Dec 2018	Comments	Water clear
S5	20 Dec 2018	Arrive Time	931
S5	20 Dec 2018	Weather	Partly Cloudy
S5	20 Dec 2018	Wind Speed (kts)	1.2
S5	20 Dec 2018	Wind Dir	Ν
S5	20 Dec 2018	Animal Life	None
S5	20 Dec 2018	Floatables	None
S5	20 Dec 2018	Water Color	Green
S5	20 Dec 2018	Current Direction	Ν
S5	20 Dec 2018	Water Temp (C)	13
S5	20 Dec 2018	Wave Height Low (ft)	4
S5	20 Dec 2018	High Tide (ft)	6.1
S5	20 Dec 2018	High Tide Time	640
S5	20 Dec 2018	Low Tide (ft)	1.4
S5	20 Dec 2018	Low Tide Time	1225
S5	20 Dec 2018	Comments	Resample; Kelp; Water clear
S5	22 Dec 2018	Arrive Time	928
S5	22 Dec 2018	Weather	Sunny
S5	22 Dec 2018	Wind Speed (kts)	2.8
S5	22 Dec 2018	Wind Dir	W
S5	22 Dec 2018	Animal Life	None
S5	22 Dec 2018	Floatables	None
S5	22 Dec 2018	Water Color	Green
S5	22 Dec 2018	Current Direction	Ν
S5	22 Dec 2018	Water Temp (C)	14
S5	22 Dec 2018	Wave Height Low (ft)	5
S5	22 Dec 2018	High Tide (ft)	6.7
S5	22 Dec 2018	High Tide Time	757
S5	22 Dec 2018	Low Tide (ft)	-1.4
S5	22 Dec 2018	Low Tide Time	1510
S5	22 Dec 2018	Comments	Resample; Kelp; 1 Person; Water clear
S5	26 Dec 2018	Arrive Time	820
S5	26 Dec 2018 26 Dec 2018	Weather	Sunny
S5	26 Dec 2018 26 Dec 2018	Wind Speed (kts)	6
- 55	20 Dec 2010		v

Station	Date	Parameter	Value
S5	26 Dec 2018	Wind Dir	SE
S5	26 Dec 2018	Animal Life	None
S5	26 Dec 2018	Floatables	None
S5	26 Dec 2018	Water Color	Green
S5	26 Dec 2018	Current Direction	SE
S5	26 Dec 2018	Water Temp (C)	12
S5	26 Dec 2018	Wave Height Low (ft)	3
S5	26 Dec 2018	High Tide (ft)	5.6
S5	26 Dec 2018	High Tide Time	1105
S5	26 Dec 2018	Low Tide (ft)	2
S5	26 Dec 2018	Low Tide Time	509
S5	26 Dec 2018	Comments	Kelp; Seagrass; Water turbid
	20 200 2010	Commonito	
S6	04 Dec 2018	Arrive Time	1024
S6	04 Dec 2018	Weather	Sunny
S6	04 Dec 2018	Wind Speed (kts)	10.3
S6	04 Dec 2018	Wind Dir	N
S6	04 Dec 2018	Animal Life	None
S6	04 Dec 2018 04 Dec 2018	Floatables	None
S6	04 Dec 2018	Water Color	Green
S6	04 Dec 2018 04 Dec 2018	Current Direction	N
S6	04 Dec 2018 04 Dec 2018	-	15
		Water Temp (C)	
S6	04 Dec 2018	Wave Height Low (ft)	3
S6	04 Dec 2018	High Tide (ft)	6
S6	04 Dec 2018	High Tide Time	641
S6	04 Dec 2018	Low Tide (ft)	1
S6	04 Dec 2018	Low Tide Time	1224 Kola Coorress 2 Demons Water clean Kola
S6	04 Dec 2018	Comments	Kelp; Seagrass; 3 Persons; Water clear; Kelp
S6	11 Dec 2018	Arrive Time	1016
S6	11 Dec 2018	Weather	Partly Cloudy
S6	11 Dec 2018	Wind Speed (kts)	6.9
S6	11 Dec 2018	Wind Dir	W
S6	11 Dec 2018	Animal Life	None
S6	11 Dec 2018	Floatables	None
S6			
S6	11 Dec 2018	Water Color Current Direction	Green N
S6	11 Dec 2018		16
	11 Dec 2018 11 Dec 2018	Water Temp (C)	
S6		Wave Height Low (ft)	4 5
S6 S6	11 Dec 2018	High Tide (ft)	
	11 Dec 2018	High Tide Time	1025
S6	11 Dec 2018	Low Tide (ft)	2.6
S6	11 Dec 2018	Low Tide Time	426 Kolas Seegreens A Dereens: 2 Surferes Weter clear
S6	11 Dec 2018	Comments	Kelp; Seagrass; 4 Persons; 2 Surfers; Water clear
56	13 Dec 2019		1008
S6	13 Dec 2018	Arrive Time	1008 Suppy
S6	13 Dec 2018	Weather	Sunny
S6	13 Dec 2018	Wind Speed (kts)	6.6
S6	13 Dec 2018	Wind Dir	E
S6	13 Dec 2018	Animal Life	None
S6	13 Dec 2018	Floatables	None
S6	13 Dec 2018	Water Color	Green
S6	13 Dec 2018	Current Direction	N
S6	13 Dec 2018	Water Temp (C)	16
S6	13 Dec 2018	Wave Height Low (ft)	3
Station	Date	Parameter	Value
---------	-------------	----------------------	--
S6	13 Dec 2018	High Tide (ft)	4.1
S6	13 Dec 2018	High Tide Time	1154
S6	13 Dec 2018	Low Tide (ft)	3
S6	13 Dec 2018	Low Tide Time	631
S6	13 Dec 2018	Comments	Resample; Seagrass; 3 Persons; 1 Surfer; Water clear
S6	14 Dec 2018	Arrive Time	1022
S6	14 Dec 2018	Weather	Cloudy
S6	14 Dec 2018	Wind Speed (kts)	1
S6	14 Dec 2018	Wind Dir	SE
S6	14 Dec 2018	Animal Life	None
S6	14 Dec 2018	Floatables	None
S6	14 Dec 2018	Water Color	Green
S6	14 Dec 2018	Current Direction	N
S6	14 Dec 2018	Water Temp (C)	15
S6	14 Dec 2018	Wave Height Low (ft)	4
S6	14 Dec 2018	High Tide (ft)	3.7
S6	14 Dec 2018	High Tide Time	1310
S6	14 Dec 2018	Low Tide (ft)	2.9
S6	14 Dec 2018	Low Tide (it)	814
S6	14 Dec 2018	Comments	Resample; Kelp; Water clear
30	14 Dec 2016	Comments	Resample, Relp, Waler clear
00	10 Dec 2010	A mili da Tina a	4040
S6	18 Dec 2018	Arrive Time	1048
S6	18 Dec 2018	Weather	Sunny
S6	18 Dec 2018	Wind Speed (kts)	5
S6	18 Dec 2018	Wind Dir	N
S6	18 Dec 2018	Animal Life	None
S6	18 Dec 2018	Floatables	Foam
S6	18 Dec 2018	Water Color	Green
S6	18 Dec 2018	Current Direction	N
S6	18 Dec 2018	Water Temp (C)	16
S6	18 Dec 2018	Wave Height Low (ft)	7
S6	18 Dec 2018	High Tide (ft)	5.2
S6	18 Dec 2018	High Tide Time	531
S6	18 Dec 2018	Low Tide (ft)	0.6
S6	18 Dec 2018	Low Tide Time	27
S6	18 Dec 2018	Comments	2 Persons; 1 Tractor; Water clear
S6	26 Dec 2018	Arrive Time	845
S6	26 Dec 2018	Weather	Sunny
S6	26 Dec 2018	Wind Speed (kts)	6
S6	26 Dec 2018	Wind Dir	SE
S6	26 Dec 2018	Animal Life	None
S6	26 Dec 2018	Floatables	None
S6	26 Dec 2018	Water Color	Green
S6	26 Dec 2018	Current Direction	SE
S6	26 Dec 2018	Water Temp (C)	12
S6	26 Dec 2018	Wave Height Low (ft)	3
S6	26 Dec 2018	High Tide (ft)	5.6
S6	26 Dec 2018	High Tide Time	1105
S6	26 Dec 2018	Low Tide (ft)	2
S6	26 Dec 2018	Low Tide Time	509
S6	26 Dec 2018	Comments	Kelp; Seagrass; Algae; 1 Person; Water turbid
S8	04 Dec 2018	Arrive Time	1143

Station	Date	Parameter	Value
S8	04 Dec 2018	Weather	Partly Cloudy
S8	04 Dec 2018	Wind Speed (kts)	2.3
S8	04 Dec 2018	Wind Dir	W
S8	04 Dec 2018	Animal Life	None
S8	04 Dec 2018	Floatables	None
S8	04 Dec 2018	Water Color	Green
S8	04 Dec 2018	Current Direction	Ν
S8	04 Dec 2018	Water Temp (C)	15
S8	04 Dec 2018	Wave Height Low (ft)	2
S8	04 Dec 2018	High Tide (ft)	6
S8	04 Dec 2018	High Tide Time	641
S8	04 Dec 2018	Low Tide (ft)	1
S8	04 Dec 2018	Low Tide Time	1224
S8	04 Dec 2018	Comments	1 Tractor; Water clear
00	04 000 2010	Commente	
S8	11 Dec 2018	Arrive Time	1153
S8	11 Dec 2018	Weather	Sunny
S8	11 Dec 2018	Wind Speed (kts)	6
S8	11 Dec 2018	Wind Dir	N
S8	11 Dec 2018	Animal Life	None
S8	11 Dec 2018	Floatables	None
S8	11 Dec 2018	Water Color	Green
S8	11 Dec 2018	Current Direction	N
S8	11 Dec 2018	Water Temp (C)	16
S8	11 Dec 2018	Wave Height Low (ft)	4
S8	11 Dec 2018	High Tide (ft)	5
S8	11 Dec 2018		1025
S8	11 Dec 2018	High Tide Time Low Tide (ft)	0.1
1	11 Dec 2018	Low Tide (It)	1804
S8 S8			
30	11 Dec 2018	Comments	Kelp; Seagrass; 7 Persons; Water clear
S8	18 Dec 2018	Arrive Time	1157
S8	18 Dec 2018	Weather	Sunny
S8	18 Dec 2018	Wind Speed (kts)	5.3
S8	18 Dec 2018	Wind Dir	N
S8	18 Dec 2018	Animal Life	None
S8	18 Dec 2018	Floatables	Foam
S8	18 Dec 2018	Water Color	Green
S8	18 Dec 2018	Current Direction	N
S8	18 Dec 2018	Water Temp (C)	18
S8	18 Dec 2018	Wave Height Low (ft)	5
S8	18 Dec 2018	High Tide (ft)	5.2
S8	18 Dec 2018	High Tide Time	531
S8	18 Dec 2018 18 Dec 2018	Low Tide (ft)	0.6
50 S8	18 Dec 2018	Low Tide (it)	27
S8	18 Dec 2018	Comments	Water clear
00	10 Dec 2010	Comments	
S8	26 Dec 2018	Arrive Time	801
S8	26 Dec 2018	Weather	Sunny
S8	26 Dec 2018	Wind Speed (kts)	4
S8	26 Dec 2018 26 Dec 2018	Wind Dir	SW
S8	26 Dec 2018 26 Dec 2018	Animal Life	None
S8	26 Dec 2018	Floatables	Foam
S8	26 Dec 2018 26 Dec 2018	Water Color	Green
S8	26 Dec 2018 26 Dec 2018	Current Direction	SW
- 50	20 000 2010		UVV

Station	Date	Parameter	Value
S8	26 Dec 2018	Water Temp (C)	13
S8	26 Dec 2018	Wave Height Low (ft)	4
S8	26 Dec 2018	High Tide (ft)	5.6
S8	26 Dec 2018	High Tide Time	1105
S8	26 Dec 2018	Low Tide (ft)	2
S8	26 Dec 2018	Low Tide Time	509
S8	26 Dec 2018	Comments	Kelp; Seagrass; Water clear
S9	04 Dec 2018	Arrive Time	1226
S9	04 Dec 2018	Weather	Sunny
S9	04 Dec 2018	Wind Speed (kts)	4.5
S9	04 Dec 2018	Wind Dir	Ν
S9	04 Dec 2018	Animal Life	None
S9	04 Dec 2018	Floatables	None
S9	04 Dec 2018	Water Color	Green
S9	04 Dec 2018	Current Direction	Ν
S9	04 Dec 2018	Water Temp (C)	19
S9	04 Dec 2018	Wave Height Low (ft)	2
S9	04 Dec 2018	High Tide (ft)	6
S9	04 Dec 2018	High Tide Time	641
S9	04 Dec 2018	Low Tide (ft)	1
S9	04 Dec 2018	Low Tide Time	1224
S9	04 Dec 2018	Comments	Kelp; 8 Persons; Water clear
S9	11 Dec 2018	Arrive Time	1229
S9	11 Dec 2018	Weather	Sunny
S9	11 Dec 2018	Wind Speed (kts)	2.4
S9	11 Dec 2018	Wind Dir	Ν
S9	11 Dec 2018	Animal Life	None
S9	11 Dec 2018	Floatables	None
S9	11 Dec 2018	Water Color	Green
S9	11 Dec 2018	Current Direction	Ν
S9	11 Dec 2018	Water Temp (C)	18
S9	11 Dec 2018	Wave Height Low (ft)	2
S9	11 Dec 2018	High Tide (ft)	5
S9	11 Dec 2018	High Tide Time	1025
S9	11 Dec 2018	Low Tide (ft)	0.1
S9	11 Dec 2018	Low Tide Time	1804
S9	11 Dec 2018	Comments	Kelp; Seagrass; 1 Jogger; 3 Persons; Water clear
S9	18 Dec 2018	Arrive Time	1235
S9	18 Dec 2018	Weather	Sunny
S9	18 Dec 2018	Wind Speed (kts)	7.1
S9	18 Dec 2018	Wind Dir	N
S9	18 Dec 2018	Animal Life	None
S9	18 Dec 2018	Floatables	None
S9	18 Dec 2018	Water Color	Green
S9	18 Dec 2018	Current Direction	N
S9	18 Dec 2018	Water Temp (C)	21
S9	18 Dec 2018	Wave Height Low (ft)	5
S9	18 Dec 2018	High Tide (ft)	3.5
S9	18 Dec 2018	High Tide Time	1817
S9	18 Dec 2018	Low Tide (ft)	1.3
S9	18 Dec 2018	Low Tide Time	2344
S9	18 Dec 2018	Comments	Seagrass; 2 Persons; Water clear

Station	Date	Parameter	Value
S9	26 Dec 2018	Arrive Time	745
S9 S9	26 Dec 2018	Weather	Sunny
S9 S9	26 Dec 2018 26 Dec 2018	Wind Speed (kts)	2.7
S9 S9		Wind Dir	S.
	26 Dec 2018		
S9	26 Dec 2018	Animal Life	5 Shorebirds; 1 Bird
S9	26 Dec 2018	Floatables	None
S9	26 Dec 2018	Water Color	Green
S9	26 Dec 2018	Current Direction	S
S9	26 Dec 2018	Water Temp (C)	13
S9	26 Dec 2018	Wave Height Low (ft)	3
S9	26 Dec 2018	High Tide (ft)	5.6
S9	26 Dec 2018	High Tide Time	1105
S9	26 Dec 2018	Low Tide (ft)	2
S9	26 Dec 2018	Low Tide Time	509
S9	26 Dec 2018	Comments	Kelp; Water clear
S10	04 Dec 2018	Arrive Time	851
S10	04 Dec 2018	Weather	Sunny
S10	04 Dec 2018	Wind Speed (kts)	15.6
S10	04 Dec 2018	Wind Dir	E
S10	04 Dec 2018	Animal Life	None
S10	04 Dec 2018	Floatables	None
S10	04 Dec 2018	Water Color	Brown
S10	04 Dec 2018	Current Direction	N
S10	04 Dec 2018	Water Temp (C)	12
S10	04 Dec 2018	Wave Height Low (ft)	2
S10	04 Dec 2018	High Tide (ft)	6
S10	04 Dec 2018	High Tide Time	641
S10	04 Dec 2018	Low Tide (ft)	1
S10	04 Dec 2018	Low Tide Time	1224
S10	04 Dec 2018	Comments	Seagrass; Water clear
S10	06 Dec 2018	Arrive Time	1018
S10	06 Dec 2018	Weather	Partly Cloudy
S10	06 Dec 2018	Wind Speed (kts)	4.5
S10	06 Dec 2018	Wind Dir	S
S10	06 Dec 2018	Animal Life	None
S10	06 Dec 2018	Floatables	None
S10	06 Dec 2018	Water Color	Brown
S10	06 Dec 2018	Current Direction	Ν
S10	06 Dec 2018	Water Temp (C)	15
S10	06 Dec 2018	Wave Height Low (ft)	4
S10	06 Dec 2018	High Tide (ft)	6.2
S10	06 Dec 2018	High Tide Time	746
S10	06 Dec 2018	Low Tide (ft)	-0.7
S10	06 Dec 2018	Low Tide Time	1451
S10	06 Dec 2018	Comments	Resample; Kelp; Seagrass; Water clear
S10	07 Dec 2018	Arrive Time	915
		Weather	
S10	07 Dec 2018		
S10	07 Dec 2018	Wind Speed (kts)	
S10	07 Dec 2018	Wind Dir	SE
S10	07 Dec 2018	Animal Life	None
S10	07 Dec 2018	Floatables	None

S10 07 Dec 2018 Water Color Green S10 07 Dec 2018 Water Temp (C) 17 S10 07 Dec 2018 Water Temp (C) 17 S10 07 Dec 2018 High Tale (1) 6.1 S10 07 Dec 2018 Low Tide Time 817 S10 07 Dec 2018 Low Tide Time 1528 S10 07 Dec 2018 Comments Resample: Seagrass; Water turbid: Drift wood S10 09 Dec 2018 Water Temp 5.3 S10 09 Dec 2018 Water Color Green S10 09 Dec 2018 Water Temp 15 S10 09 Dec 2018 Water Color Green S10 09 Dec 2018 Low Tid	Station	Date	Parameter	Value
S10 07 Dec 2018 Water Temp (C) 17 S10 07 Dec 2018 High Tide (th) 6.1 S10 07 Dec 2018 High Tide (th) 6.1 S10 07 Dec 2018 Low Tide (th) -0.7 S10 07 Dec 2018 Low Tide Time 1528 S10 07 Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Wind Speed (kts) 5.3 S10 09 Dec 2018 Wind Speed (kts) 5.3 S10 09 Dec 2018 Wind Dir E S10 09 Dec 2018 Wind Dir E S10 09 Dec 2018 Minal Life 10 Birds S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water High Tide (th) 5.7 S10 09 Dec 2018 Water High Tide (th) 5.7 S10 09 Dec 2018 Low Tide Time 314 S10 09 Dec 2018	S10	07 Dec 2018	Water Color	Green
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S10 Of Dec 2018 High Tide (ft) 6.1 S10 Of Dec 2018 Low Tide (ft) -0.7 S10 Of Dec 2018 Low Tide (ft) -0.7 S10 Of Dec 2018 Low Tide (ft) -0.7 S10 Of Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Arrive Time 834 S10 09 Dec 2018 Wind Speed (kts) 5.3 S10 09 Dec 2018 Minal Life 10 Birds S10 09 Dec 2018 Animal Life 10 Birds S10 09 Dec 2018 Water Color Green S10 09 Dec 2018 High Tide (ft) 5.7 S10 09 Dec 2018 Karle (ft) 2.2 S10 10 Dec 2018 Karle (ft) 2.4 S10 10 Dec 2018	S10	07 Dec 2018	Water Temp (C)	17
S10 07 Dec 2018 High Tide Time 817 S10 07 Dec 2018 Low Tide (th) -0.7 S10 07 Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Arrive Time 834 S10 09 Dec 2018 Wand Speed (kts) 5.3 S10 09 Dec 2018 Wind Speed (kts) 5.3 S10 09 Dec 2018 Wind Dir E S10 09 Dec 2018 Wind Dir E S10 09 Dec 2018 Water Color Green S10 09 Dec 2018 Water Temp (c) 15 S10 09 Dec 2018 Water Temp (c) 15 S10 09 Dec 2018 Water Temp (c) 15 S10 09 Dec 2018 Water Temp (c) 14 S10 09 Dec 2018 Water Heigh Tok (th) 2.2 S10 09 Dec 2018 Ker Temp (c) 14 S10 10 Dec 2018 Ker Temp (c) 14 S10 11 Dec 2018 Krine	S10	07 Dec 2018	Wave Height Low (ft)	4
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S10 07 Dec 2018 Low Tide Time 1528 S10 07 Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Weather Sunny S10 09 Dec 2018 Weather Sunny S10 09 Dec 2018 Weather Sunny S10 09 Dec 2018 Wind Speed (tts) 5.3 S10 09 Dec 2018 Animal Life 10 Birds S10 09 Dec 2018 Animal Life 10 Birds S10 09 Dec 2018 Vater Color Green S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Low Tide (Time 919 S10 09 Dec 2018 Low Tide (Time 314 S10 09 Dec 2018 Comments Resample; Kelp; Seagrass; Debris; Water clear S10 11 Dec 2018 Arrive Time 841 S10	S10	07 Dec 2018		817
S10 07 Dec 2018 Low Tide Time 1528 S11 07 Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Wather Sunny S10 09 Dec 2018 Wind Speed (tks) 5.3 S10 09 Dec 2018 Wind Dir E S10 09 Dec 2018 Armiva Liffe 10 Birds S10 09 Dec 2018 Armiva Liffe 10 Birds S10 09 Dec 2018 Vater Color Green S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Time 916 S10 09 Dec 2018 Water Time 917 S10 09 Dec 2018 Low Tide Time 918 S10 09 Dec 2018 Low Tide (th) 2.2 S10 09 Dec 2018 Comments Resample; Kelp, Seagrass; Debris; Water clear S10 11 Dec 2018 Arrive Time 841 S10 11 Dec 2018 Mind Dir E S10 11 Dec 2		07 Dec 2018	-	
S10 07 Dec 2018 Comments Resample; Seagrass; Water turbid; Drift wood S10 09 Dec 2018 Arrive Time 834 S10 09 Dec 2018 Wind Speed (kts) 5.3 S11 09 Dec 2018 Wind Speed (kts) 5.3 S10 09 Dec 2018 Animal Life 10 Birds S10 09 Dec 2018 Animal Life 10 Birds S10 09 Dec 2018 Water Color Green S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Water Temp (C) 15 S10 09 Dec 2018 Low Tide (ft) 2.7 S10 09 Dec 2018 Low Tide (ft) 2.2 S10 09 Dec 2018 Low Tide Time 314 S10 10 Dec 2018 Krite Time 841 S10 11 Dec 2018 Water Temp Partly Cloudy S10 11 Dec 2018 Wind Dir E S10 11 Dec 2018		07 Dec 2018	Low Tide Time	
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S10 11 Dec 2018 High Tide (ft) 5 S10 11 Dec 2018 High Tide Time 1025 S10 11 Dec 2018 Low Tide (ft) 2.6 S10 11 Dec 2018 Low Tide Time 426 S10 11 Dec 2018 Comments Kelp; Water clear S10 13 Dec 2018 Meather Sunny S10 13 Dec 2018 Weather Sunny S10 13 Dec 2018 Wind Speed (kts) 5.8 S10 13 Dec 2018 Wind Dir E S10 13 Dec 2018 Animal Life None S10 13 Dec 2018 Floatables None S10 13 Dec 2018 Water Color Green S10 13 Dec 2018 Current Direction N S10 13 Dec 2018 Water Temp (C) 14 S10 13 Dec 2018 Wave Height Low (ft) 5	S10	11 Dec 2018	Water Temp (C)	14
S10 11 Dec 2018 High Tide (ft) 5 S10 11 Dec 2018 High Tide Time 1025 S10 11 Dec 2018 Low Tide (ft) 2.6 S10 11 Dec 2018 Low Tide Time 426 S10 11 Dec 2018 Comments Kelp; Water clear S10 13 Dec 2018 Meather Sunny S10 13 Dec 2018 Weather Sunny S10 13 Dec 2018 Wind Speed (kts) 5.8 S10 13 Dec 2018 Wind Dir E S10 13 Dec 2018 Animal Life None S10 13 Dec 2018 Floatables None S10 13 Dec 2018 Water Color Green S10 13 Dec 2018 Current Direction N S10 13 Dec 2018 Water Temp (C) 14 S10 13 Dec 2018 Wave Height Low (ft) 5	S10	11 Dec 2018	Wave Height Low (ft)	3
S10 11 Dec 2018 High Tide Time 1025 S10 11 Dec 2018 Low Tide (ft) 2.6 S10 11 Dec 2018 Low Tide Time 426 S10 11 Dec 2018 Comments Kelp; Water clear S10 13 Dec 2018 Arrive Time 840 S10 13 Dec 2018 Weather Sunny S10 13 Dec 2018 Wind Speed (kts) 5.8 S10 13 Dec 2018 Wind Dir E S10 13 Dec 2018 Animal Life None S10 13 Dec 2018 Floatables None S10 13 Dec 2018 Courrent Direction N S10 13 Dec 2018 Water Color Green S10 13 Dec 2018 Current Direction N S10 13 Dec 2018 Water Temp (C) 14 S10 13 Dec 2018 Water Temp (C) 14 S10 13 Dec 2018 Wave Height Low (ft) 5	1			5
S1011 Dec 2018Low Tide (ft)2.6S1011 Dec 2018Low Tide Time426S1011 Dec 2018CommentsKelp; Water clearS1013 Dec 2018Arrive Time840S1013 Dec 2018WeatherSunnyS1013 Dec 2018WeatherSunnyS1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018GreenSinoS1013 Dec 2018Water ColorGreenS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10			1025
S1011 Dec 2018Low Tide Time Comments426 Kelp; Water clearS1013 Dec 2018Arrive Time840S1013 Dec 2018WeatherSunnyS1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Water Temp (C)14S1013 Dec 2018Water Height Low (ft)5	S10	11 Dec 2018	Low Tide (ft)	2.6
S1013 Dec 2018Arrive Time840S1013 Dec 2018WeatherSunnyS1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018GreenGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	11 Dec 2018	Low Tide Time	426
S1013 Dec 2018WeatherSunnyS1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	11 Dec 2018	Comments	Kelp; Water clear
S1013 Dec 2018WeatherSunnyS1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5				
S1013 Dec 2018Wind Speed (kts)5.8S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Arrive Time	840
S1013 Dec 2018Wind DirES1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Weather	Sunny
S1013 Dec 2018Animal LifeNoneS1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Wind Speed (kts)	5.8
S1013 Dec 2018FloatablesNoneS1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Wind Dir	E
S1013 Dec 2018Water ColorGreenS1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Animal Life	None
S1013 Dec 2018Current DirectionNS1013 Dec 2018Water Temp (C)14S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Floatables	None
S10 13 Dec 2018 Water Temp (C) 14 S10 13 Dec 2018 Wave Height Low (ft) 5	S10	13 Dec 2018	Water Color	Green
S1013 Dec 2018Wave Height Low (ft)5	S10	13 Dec 2018	Current Direction	N
	S10	13 Dec 2018	Water Temp (C)	14
	S10	13 Dec 2018	Wave Height Low (ft)	5
S10 13 Dec 2018 High Tide (tt) 4.1	S10	13 Dec 2018	High Tide (ft)	4.1
S10 13 Dec 2018 High Tide Time 1154	S10	13 Dec 2018	High Tide Time	1154
S10 13 Dec 2018 Low Tide (ft) 3	S10	13 Dec 2018	Low Tide (ft)	3

Station	Date	Parameter	Value
S10	13 Dec 2018	Low Tide Time	631
S10	13 Dec 2018	Comments	Resample; Seagrass; Water clear
S10	14 Dec 2018	Arrive Time	900
S10	14 Dec 2018	Weather	Cloudy
S10	14 Dec 2018	Wind Speed (kts)	3.2
S10	14 Dec 2018	Wind Dir	W
S10	14 Dec 2018	Animal Life	None
S10	14 Dec 2018	Floatables	None
S10	14 Dec 2018	Water Color	Green
S10	14 Dec 2018	Current Direction	N
S10 S10	14 Dec 2018 14 Dec 2018	Water Temp (C)	15
S10 S10	14 Dec 2018 14 Dec 2018		3
1 1		Wave Height Low (ft)	3.7
S10	14 Dec 2018	High Tide (ft)	
S10	14 Dec 2018	High Tide Time	1310
S10	14 Dec 2018	Low Tide (ft)	2.9
S10	14 Dec 2018	Low Tide Time	814 Decementar Kalar Matanalaan
S10	14 Dec 2018	Comments	Resample; Kelp; Water clear
S10	16 Dec 2018	Arrive Time	958
S10	16 Dec 2018	Weather	Partly Cloudy
S10	16 Dec 2018	Wind Speed (kts)	2
S10	16 Dec 2018	Wind Dir	Ŵ
S10	16 Dec 2018	Animal Life	None
S10	16 Dec 2018	Floatables	None
S10	16 Dec 2018	Water Color	Green
S10	16 Dec 2018	Current Direction	N
S10	16 Dec 2018	Water Temp (C)	14
S10	16 Dec 2018	Wave Height Low (ft)	3
S10 S10	16 Dec 2018	High Tide (ft)	4.4
S10 S10	16 Dec 2018	High Tide Time	424
S10 S10	16 Dec 2018	Low Tide (ft)	2
S10 S10	16 Dec 2018	Low Tide Time	1057
S10 S10	16 Dec 2018	Comments	
310	10 Dec 2018	Comments	Resample; Kelp; Seagrass; 4 Persons; Water clear
S10	18 Dec 2018	Arrive Time	853
S10	18 Dec 2018	Weather	Sunny
S10	18 Dec 2018	Wind Speed (kts)	4.2
S10	18 Dec 2018	Wind Dir	E
S10	18 Dec 2018	Animal Life	None
S10	18 Dec 2018	Floatables	Foam
S10	18 Dec 2018	Water Color	Green
S10	18 Dec 2018	Current Direction	Ν
S10	18 Dec 2018	Water Temp (C)	14
S10	18 Dec 2018	Wave Height Low (ft)	3
S10	18 Dec 2018	High Tide (ft)	5.2
S10	18 Dec 2018	High Tide Time	531
S10	18 Dec 2018	Low Tide (ft)	0.6
S10	18 Dec 2018	Low Tide Time	27
S10	18 Dec 2018	Comments	Kelp; Seagrass; Water clear
			005
S10	20 Dec 2018	Arrive Time	925
S10	20 Dec 2018	Weather	Partly Cloudy
S10	20 Dec 2018	Wind Speed (kts)	0.6
S10	20 Dec 2018	Wind Dir	N

Station	Date	Parameter	Value
S10	20 Dec 2018	Animal Life	None
S10	20 Dec 2018	Floatables	None
S10	20 Dec 2018	Water Color	Green
S10	20 Dec 2018	Current Direction	Ν
S10	20 Dec 2018	Water Temp (C)	13
S10	20 Dec 2018	Wave Height Low (ft)	4
S10	20 Dec 2018	High Tide (ft)	6.1
S10	20 Dec 2018	High Tide Time	640
S10	20 Dec 2018	Low Tide (ft)	1.4
S10	20 Dec 2018	Low Tide Time	1225
S10	20 Dec 2018	Comments	Resample; Kelp; Water clear
S10	26 Dec 2018	Arrive Time	849
S10	26 Dec 2018	Weather	Sunny
S10	26 Dec 2018	Wind Speed (kts)	2.7
S10	26 Dec 2018	Wind Dir	W
S10	26 Dec 2018	Animal Life	1 Bird
S10	26 Dec 2018	Floatables	None
S10	26 Dec 2018	Water Color	Green
S10	26 Dec 2018	Current Direction	W
S10	26 Dec 2018	Water Temp (C)	15
S10	26 Dec 2018	Wave Height Low (ft)	4
S10	26 Dec 2018	High Tide (ft)	5.6
S10	26 Dec 2018	High Tide Time	1105
S10	26 Dec 2018	Low Tide (ft)	2
S10	26 Dec 2018	Low Tide Time	509
S10	26 Dec 2018	Comments	Kelp; Seagrass; Debris; Water clear
	20 200 20.0		
S10	27 Dec 2018	Arrive Time	1100
S10	27 Dec 2018	Weather	Partly Cloudy
S10	27 Dec 2018	Wind Speed (kts)	4.6
S10	27 Dec 2018	Wind Dir	W
S10	27 Dec 2018	Animal Life	None
S10	27 Dec 2018	Floatables	None
S10	27 Dec 2018	Water Color	Green
S10	27 Dec 2018	Current Direction	Ν
S10	27 Dec 2018	Water Temp (C)	14
S10	27 Dec 2018	Wave Height Low (ft)	3
S10	27 Dec 2018	High Tide (ft)	4.1
S10	27 Dec 2018	High Tide Time	103
S10	27 Dec 2018	Low Tide (ft)	2.2
S10	27 Dec 2018	Low Tide Time	623
S10	27 Dec 2018	Comments	Resample; Kelp; 3 Persons; Water clear
S10	29 Dec 2018	Arrive Time	740
S10	29 Dec 2018	Weather	Sunny
S10	29 Dec 2018	Wind Speed (kts)	0
S10	29 Dec 2018	Wind Dir	
S10	29 Dec 2018	Animal Life	15 Shorebirds
S10	29 Dec 2018	Floatables	None
S10	29 Dec 2018	Water Color	Green
S10	29 Dec 2018	Current Direction	
S10	29 Dec 2018	Water Temp (C)	13
S10	29 Dec 2018	Wave Height Low (ft)	2
S10	29 Dec 2018	High Tide (ft)	4.6
0.0	20 200 2010	gii fido (it)	

Station	Date	Parameter	Value
S10	29 Dec 2018	High Tide Time	310
S10	29 Dec 2018	Low Tide (ft)	1.8
S10	29 Dec 2018	Low Tide Time	930
S10	29 Dec 2018	Comments	Resample; Kelp; Water clear
S10	31 Dec 2018	Arrive Time	803
S10	31 Dec 2018	Weather	Cloudy
S10	31 Dec 2018	Wind Speed (kts)	15.9
S10	31 Dec 2018	Wind Dir	N
S10	31 Dec 2018	Animal Life	2 Birds
S10	31 Dec 2018	Floatables	None
S10	31 Dec 2018	Water Color	Green
S10	31 Dec 2018	Current Direction	N
S10	31 Dec 2018	Water Temp (C)	14
S10	31 Dec 2018	Wave Height Low (ft)	3
S10	31 Dec 2018	High Tide (ft)	5.3
S10	31 Dec 2018	High Tide Time	457
S10	31 Dec 2018	Low Tide (ft)	0.5
S10	31 Dec 2018	Low Tide Time	0
S10	31 Dec 2018	Comments	Resample; Debris; Water clear
	01 200 2010	Commonito	
S11	04 Dec 2018	Arrive Time	1019
S11	04 Dec 2018	Weather	Partly Cloudy
S11	04 Dec 2018	Wind Speed (kts)	11.5
S11	04 Dec 2018	Wind Dir	N
S11	04 Dec 2018	Animal Life	1 Dog
S11	04 Dec 2018	Floatables	None
S11	04 Dec 2018	Water Color	Green
S11	04 Dec 2018	Current Direction	N
S11	04 Dec 2018	Water Temp (C)	16
S11	04 Dec 2018	Wave Height Low (ft)	2
S11	04 Dec 2018	High Tide (ft)	6
S11	04 Dec 2018	High Tide Time	641
S11	04 Dec 2018	Low Tide (ft)	1
S11	04 Dec 2018	Low Tide Time	1224
S11	04 Dec 2018	Comments	Seagrass; 1 Person; Water clear
	04 000 2010	Commenta	
S11	06 Dec 2018	Arrive Time	1136
S11	06 Dec 2018	Weather	Partly Cloudy
S11	06 Dec 2018 06 Dec 2018	Wind Speed (kts)	17.1
S11	06 Dec 2018	Wind Dir	S
S11	06 Dec 2018 06 Dec 2018	Animal Life	1 Dog
S11	06 Dec 2018 06 Dec 2018	Floatables	None
S11	06 Dec 2018 06 Dec 2018	Water Color	Brown
S11	06 Dec 2018 06 Dec 2018	Current Direction	N
S11	06 Dec 2018 06 Dec 2018	Water Temp (C)	15
S11	06 Dec 2018 06 Dec 2018	Wave Height Low (ft)	4
S11	06 Dec 2018 06 Dec 2018	High Tide (ft)	6.2
S11	06 Dec 2018 06 Dec 2018	High Tide Time	746
S11	06 Dec 2018 06 Dec 2018	Low Tide (ft)	-0.7
S11 S11	06 Dec 2018 06 Dec 2018	Low Tide (It)	-0.7
S11 S11	06 Dec 2018 06 Dec 2018	Comments	Resample; Kelp; 2 Persons; Water clear
	00 000 2010	Commenta	ווכאוואיט, ווכוף, ב ו פוסטווס, זיימנכו טוכמו
S11	07 Dec 2018	Arrive Time	1045
S11 S11	07 Dec 2018 07 Dec 2018	Weather	Cloudy
511	JI DEC 2010		Olouuy

Station	Date	Parameter	Value
S11	07 Dec 2018	Wind Speed (kts)	5
S11	07 Dec 2018	Wind Dir	SE
S11	07 Dec 2018	Animal Life	None
S11	07 Dec 2018	Floatables	None
S11	07 Dec 2018	Water Color	Green
S11	07 Dec 2018	Current Direction	SE
S11	07 Dec 2018	Water Temp (C)	15
S11	07 Dec 2018	Wave Height Low (ft)	4
S11	07 Dec 2018	High Tide (ft)	6.1
S11	07 Dec 2018	High Tide Time	817
S11		-	-0.7
	07 Dec 2018	Low Tide (ft)	
S11	07 Dec 2018	Low Tide Time	1528
S11	07 Dec 2018	Comments	Resample; Kelp; Seagrass; 1 Jogger; Water turbid
S11	09 Dec 2018	Arrive Time	1004
S11	09 Dec 2018	Weather	Sunny
S11	09 Dec 2018	Wind Speed (kts)	5.6
S11	09 Dec 2018	Wind Dir	E
S11	09 Dec 2018	Animal Life	3 Shorebirds
S11	09 Dec 2018	Floatables	None
S11	09 Dec 2018	Water Color	Green
S11 S11	09 Dec 2018 09 Dec 2018	Current Direction	E
	09 Dec 2018 09 Dec 2018		
S11		Water Temp (C)	18
S11	09 Dec 2018	Wave Height Low (ft)	3
S11	09 Dec 2018	High Tide (ft)	5.7
S11	09 Dec 2018	High Tide Time	919
S11	09 Dec 2018	Low Tide (ft)	-0.4
S11	09 Dec 2018	Low Tide Time	1641
S11	09 Dec 2018	Comments	Resample; Kelp; Seagrass; Debris; Water clear
S11	11 Dec 2018	Arrive Time	1008
S11	11 Dec 2018	Weather	Partly Cloudy
S11	11 Dec 2018	Wind Speed (kts)	6
S11	11 Dec 2018	Wind Dir	W
S11	11 Dec 2018	Animal Life	None
S11	11 Dec 2018	Floatables	None
S11	11 Dec 2018	Water Color	Green
S11	11 Dec 2018	Current Direction	N
S11 S11	11 Dec 2018 11 Dec 2018	Water Temp (C)	16
S11 S11	11 Dec 2018 11 Dec 2018	Wave Height Low (ft)	5
S11 S11		High Tide (ft)	5
	11 Dec 2018		
S11	11 Dec 2018	High Tide Time	1025
S11	11 Dec 2018	Low Tide (ft)	2.6
S11	11 Dec 2018	Low Tide Time	426
S11	11 Dec 2018	Comments	Kelp; Seagrass; Water clear
S11	13 Dec 2018	Arrive Time	1000
S11	13 Dec 2018	Weather	Sunny
S11	13 Dec 2018	Wind Speed (kts)	5.5
S11	13 Dec 2018	Wind Dir	NE
S11	13 Dec 2018	Animal Life	1 Dog
S11 S11	13 Dec 2018 13 Dec 2018	Floatables	None
S11	13 Dec 2018 13 Dec 2018	Water Color	Green
S11 S11			
	13 Dec 2018	Current Direction	N 16
S11	13 Dec 2018	Water Temp (C)	16

S11 13 Dec 2018 Wave Heigh Low (ft) 3 S11 13 Dec 2018 High Tide (ft) 4.1 S11 13 Dec 2018 Low Tide (ft) 3 S11 13 Dec 2018 Low Tide (ft) 3 S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Filoatables None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Low Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.2 S11 16 Dec 2018 Mind Dir	Station	Date	Parameter	Value
S11 13 Dec 2018 High Tide Time 1154 S11 13 Dec 2018 Low Tide Time 631 S11 13 Dec 2018 Low Tide Time 631 S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Wather Cloudy S11 14 Dec 2018 Wather State S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Temp () 15 S11 14 Dec 2018 Water Temp () 15 S11 14 Dec 2018 Water Temp () 37 S11 14 Dec 2018 Water Temp () 37 S11 14 Dec 2018 Wind Dir 29 S11 14 Dec 2018 Wind Tem me 1053 S11 14 Dec 2018 Water Temp () 14	S11	13 Dec 2018	Wave Height Low (ft)	3
S11 13 Dec 2018 Lwigh Tide (ft) 3 S11 13 Dec 2018 Low Tide time 631 S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Wind Speed (kts) None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Tomp (C) 15 S11 14 Dec 2018 High Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Comments Resample; Kelp; Water clear S11 14 Dec 2018 Comments Resample; Kelp; Water clear S11 16 Dec 2018 Weather Partity Cloudy S11 16 Dec 2018 Weather Partity Cloudy <				4.1
S11 13 Dec 2018 Low Tide Time 3 S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Arrive Time 1017 S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Mind Dir SE S11 14 Dec 2018 Mind Dir SE S11 14 Dec 2018 Mind Life None S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Kow Tide (ft) 2.9 S11 14 Dec 2018 Kow Tide (ft) 2.9 S11 14 Dec 2018 Kow Tide (ft) 2.9 S11 16 Dec 2018 Kinike (ft) 2.1 S11 16 Dec 2018 Kinike (ft)		13 Dec 2018		
S11 13 Dec 2018 Low Tide Time 631 S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Wather 1017 S11 14 Dec 2018 Wather Cloudy S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Minal Life None S11 14 Dec 2018 Kinal Life None S11 14 Dec 2018 Kater Color Green S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 High Tide (th) 3.7 S11 14 Dec 2018 Low Tide (th) 2.9 S11 14 Dec 2018 Low Tide (th) 2.9 S11 14 Dec 2018 Low Tide Time 1310 S11 14 Dec 2018 Komments Resample; Kelp; Water clear S11 16 Dec 2018 Mind Speed (kts) 2.2 S11 16 Dec 2018 Kim Dr Water Temp (C) S11 16 Dec 2018 <td></td> <td></td> <td>-</td> <td>3</td>			-	3
S11 13 Dec 2018 Comments Resample; Seagrass; 3 Persons; Water clear S11 14 Dec 2018 Wreather Cloudy S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Ferm (C) 15 S11 14 Dec 2018 Kow Tide Time 1310 S11 14 Dec 2018 Kow Tide Time 1430 S11 14 Dec 2018 Kow Tide Time 144 S11 16 Dec 2018 Marker Parity Cloudy S11 16 Dec 2018 Mind Dir W S11 16 Dec 2018 Mind Dir				631
S11 14 Dec 2018 Arrive Time 1017 S11 14 Dec 2018 Wind Speed (kis) 1.5 S11 14 Dec 2018 Wind Speed (kis) 1.5 S11 14 Dec 2018 Wind Speed (kis) 1.5 S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Tomp (C) 15 S11 14 Dec 2018 Water Tomp (C) 15 S11 14 Dec 2018 High Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Comments Resample; Kelp; Water clear S11 14 Dec 2018 Krive Time 1053 S11 16 Dec 2018 None Siter Color S11 16 Dec 2018 Kimal Life None S11 16 Dec 2018 Current Directio				
S11 14 Dec 2018 Weather Cloudy S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Tonjo () 15 S11 14 Dec 2018 Water Tomp (C) 15 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide Time 103 S11 16 Dec 2018 Waether Partly Cloudy S11 16 Dec 2018 Wind Speed (kts) 2.2 S11 16 Dec 2018 Animal Life None S11 16 Dec 2018 Water Color Green S11 16 Dec 2018 Water Color Gre	••••	10 2 00 2010		
S11 14 Dec 2018 Weather Cloudy S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Tonjo () 15 S11 14 Dec 2018 Water Tomp (C) 15 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide Time 103 S11 16 Dec 2018 Waether Partly Cloudy S11 16 Dec 2018 Wind Speed (kts) 2.2 S11 16 Dec 2018 Animal Life None S11 16 Dec 2018 Water Color Green S11 16 Dec 2018 Water Color Gre	S11	14 Dec 2018	Arrive Time	1017
S11 14 Dec 2018 Wind Speed (kts) 1.5 S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Floatables None S11 14 Dec 2018 Floatables None S11 14 Dec 2018 Water Calor Green S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Wave Height Low (ft) 4 S11 14 Dec 2018 Low Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Kartve Time 1053 S11 16 Dec 2018 Warter Temp (C) 14 S11 16 Dec 2018 Warter Temp (C) 14 S11 16 Dec 2018 Warter Color Green S11 16 Dec 2018 Warter Color Green S11 16 Dec 2018 Warteremp (C) 14 <td></td> <td></td> <td></td> <td></td>				
S11 14 Dec 2018 Wind Dir SE S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Vater Color Green S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Wave Height Low (ft) 4 S11 14 Dec 2018 Wave Height Low (ft) 4 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Comments Resample; Kelp; Water clear S11 14 Dec 2018 Mind Dir W S11 16 Dec 2018 Arrive Time 1053 S11 16 Dec 2018 Arrive Time 1053 S11 16 Dec 2018 Water Color Green S11 16 Dec 2018 Water Temp (C) 14 S11 16 Dec 2018 Water Temp (C)				,
S11 14 Dec 2018 Animal Life None S11 14 Dec 2018 Floatables None S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Current Direction N S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Fidpt Low (ft) 4 S11 14 Dec 2018 High Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 16 Dec 2018 Water Time 1053 S11 16 Dec 2018 Wind Speed (kt) 2.2 S11 16 Dec 2018 Wind Dir W S11 16 Dec 2018 Water Temp (C) 14 S11 16 Dec 2018 Water Iemp (C) 14 <td></td> <td></td> <td></td> <td></td>				
S11 14 Dec 2018 Floatables None S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 High Tide (T) 3.7 S11 14 Dec 2018 Low Tide (T) 2.9 S11 14 Dec 2018 Low Tide (T) 814 S11 14 Dec 2018 Low Tide Time 1053 S11 16 Dec 2018 Weather Partly Cloudy S11 16 Dec 2018 Wind Speed (kts) 2.2 S11 16 Dec 2018 Wind Dir W S11 16 Dec 2018 Minal Life None S11 16 Dec 2018 Animal Life None S11 16 Dec 2018 Water Temp (C) 14				
S11 14 Dec 2018 Water Color Green S11 14 Dec 2018 Curnent Direction N S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 Water Temp (C) 15 S11 14 Dec 2018 High Tide (ft) 3.7 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Low Tide (ft) 2.9 S11 14 Dec 2018 Comments Resample; Kelp; Water clear S11 16 Dec 2018 Marive Time 1053 S11 16 Dec 2018 Water Temp Partly Cloudy S11 16 Dec 2018 Mind Dir W S11 16 Dec 2018 Kater Temp (C) 14 S11 16 Dec 2018 Water Temp (C) 14 S11 16 Dec 2018 Water Temp (C) 14 S11 16 Dec 2018 Water Temp (C) 14 S11 16 Dec 2018 Low Tide Time <td></td> <td></td> <td></td> <td></td>				
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S11 18 Dec 2018 Weather Sunny S11 18 Dec 2018 Wind Speed (kts) 5.5 S11 18 Dec 2018 Wind Dir W S11 18 Dec 2018 Animal Life None S11 18 Dec 2018 Floatables None S11 18 Dec 2018 Water Color Green S11 18 Dec 2018 Current Direction N S11 18 Dec 2018 Water Temp (C) 16 S11 18 Dec 2018 Wave Height Low (ft) 6 S11 18 Dec 2018 High Tide (ft) 5.2 S11 18 Dec 2018 High Tide (ft) 5.2 S11 18 Dec 2018 High Tide (ft) 5.1 S11 18 Dec 2018 High Tide (ft) 5.2 S11 18 Dec 2018 Low Tide (ft) 0.6 S11 18 Dec 2018 Low Tide (ft) 0.6 S11 18 Dec 2018 Low Tide Time 27	S11	18 Dec 2018	Arrive Time	1040
S11 18 Dec 2018 Wind Speed (kts) 5.5 S11 18 Dec 2018 Wind Dir W S11 18 Dec 2018 Animal Life None S11 18 Dec 2018 Floatables None S11 18 Dec 2018 Vater Color Green S11 18 Dec 2018 Current Direction N S11 18 Dec 2018 Water Temp (C) 16 S11 18 Dec 2018 Wave Height Low (ft) 6 S11 18 Dec 2018 High Tide (ft) 5.2 S11 18 Dec 2018 Low Tide (ft) 0.6 S11 18 Dec 2018 Low Tide (ft) 0.6 S11 18 Dec 2018 Low Tide Time 27				
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S11 18 Dec 2018 Low Tide (ft) 0.6 S11 18 Dec 2018 Low Tide Time 27				
S11 18 Dec 2018 Low Tide Time 27			-	

Station	Date	Parameter	Value
S11	26 Dec 2018	Arrive Time	834
S11	26 Dec 2018	Weather	Sunny
S11	26 Dec 2018	Wind Speed (kts)	6
S11	26 Dec 2018	Wind Dir	SE
S11	26 Dec 2018	Animal Life	None
S11	26 Dec 2018	Floatables	None
S11	26 Dec 2018	Water Color	Green
S11	26 Dec 2018	Current Direction	SE
S11	26 Dec 2018	Water Temp (C)	12
S11	26 Dec 2018	Wave Height Low (ft)	3
S11	26 Dec 2018	High Tide (ft)	5.6
S11	26 Dec 2018	High Tide Time	1105
S11	26 Dec 2018	Low Tide (ft)	2
S11	26 Dec 2018	Low Tide Time	509
S11	26 Dec 2018	Comments	Kelp; Seagrass; 2 Surfers; Water turbid
511	20 Dec 2010	Comments	Nelp, Seagrass, 2 Surrers, Water turbiu
S12	04 Dec 2018	Arrive Time	1035
S12	04 Dec 2018	Weather	Partly Cloudy
S12	04 Dec 2018	Wind Speed (kts)	6
S12	04 Dec 2018	Wind Dir	N
S12	04 Dec 2018	Animal Life	2 Dogs
S12	04 Dec 2018	Floatables	None
S12 S12	04 Dec 2018	Water Color	Green
S12 S12	04 Dec 2018 04 Dec 2018	Current Direction	N
S12 S12			16
	04 Dec 2018	Water Temp (C)	
S12	04 Dec 2018	Wave Height Low (ft)	2
S12	04 Dec 2018	High Tide (ft)	6
S12	04 Dec 2018	High Tide Time	641
S12	04 Dec 2018	Low Tide (ft)	1
S12	04 Dec 2018	Low Tide Time	1224
S12	04 Dec 2018	Comments	Kelp; Seagrass; 4 Persons; Water clear
S12	11 Dec 2018	Arrive Time	1026
S12	11 Dec 2018	Weather	Partly Cloudy
S12	11 Dec 2018	Wind Speed (kts)	5.2
S12	11 Dec 2018	Wind Dir	N
S12	11 Dec 2018	Animal Life	2 Dogs
S12	11 Dec 2018	Floatables	None
S12	11 Dec 2018	Water Color	Green
S12	11 Dec 2018	Current Direction	N
S12 S12	11 Dec 2018	Water Temp (C)	15
S12 S12	11 Dec 2018	Wave Height Low (ft)	3
S12 S12	11 Dec 2018	High Tide (ft)	5
S12 S12	11 Dec 2018	High Tide Time	5 1025
S12 S12	11 Dec 2018	Low Tide (ft)	2.6
1 1		Low Tide (it)	
S12	11 Dec 2018		426 Kolo: Socarooc: 6 Porcono: Water close
S12	11 Dec 2018	Comments	Kelp; Seagrass; 6 Persons; Water clear
S12	13 Dec 2018	Arrive Time	1018
S12	13 Dec 2018	Weather	Sunny
S12	13 Dec 2018	Wind Speed (kts)	1.5
S12	13 Dec 2018	Wind Dir	E
S12	13 Dec 2018	Animal Life	1 Dog
S12 S12	13 Dec 2018 13 Dec 2018	Floatables	None
S12 S12	13 Dec 2018 13 Dec 2018	Water Color	Green
312	10 Dec 2010		UICEII

Station	Date	Parameter	Value
S12	13 Dec 2018	Current Direction	Ν
S12	13 Dec 2018	Water Temp (C)	16
S12	13 Dec 2018	Wave Height Low (ft)	3
S12	13 Dec 2018	High Tide (ft)	4.1
S12	13 Dec 2018	High Tide Time	1154
S12	13 Dec 2018	Low Tide (ft)	3
S12	13 Dec 2018	Low Tide Time	631
S12	13 Dec 2018	Comments	Resample; 4 Persons; Water clear
S12	18 Dec 2018	Arrive Time	1016
S12	18 Dec 2018	Weather	Sunny
S12	18 Dec 2018	Wind Speed (kts)	5.2
S12	18 Dec 2018	Wind Dir	NW
S12	18 Dec 2018	Animal Life	None
S12	18 Dec 2018	Floatables	Foam
S12	18 Dec 2018	Water Color	Green
S12	18 Dec 2018	Current Direction	Ν
S12	18 Dec 2018	Water Temp (C)	17
S12	18 Dec 2018	Wave Height Low (ft)	6
S12	18 Dec 2018	High Tide (ft)	5.2
S12	18 Dec 2018	High Tide Time	531
S12	18 Dec 2018	Low Tide (ft)	0.6
S12	18 Dec 2018	Low Tide Time	27
S12	18 Dec 2018	Comments	3 Surfers; Water clear
S12	26 Dec 2018	Arrive Time	911
S12	26 Dec 2018	Weather	Sunny
S12	26 Dec 2018	Wind Speed (kts)	1
S12	26 Dec 2018	Wind Dir	SE
S12	26 Dec 2018	Animal Life	None
S12	26 Dec 2018	Floatables	None
S12	26 Dec 2018	Water Color	Green
S12	26 Dec 2018	Current Direction	SE
S12	26 Dec 2018	Water Temp (C)	11
S12	26 Dec 2018	Wave Height Low (ft)	2
S12	26 Dec 2018	High Tide (ft)	5.6
S12	26 Dec 2018	High Tide Time	1105
S12	26 Dec 2018	Low Tide (ft)	2
S12	26 Dec 2018	Low Tide Time	509
S12	26 Dec 2018	Comments	Kelp; Seagrass; 5 Persons; Water turbid



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

Date	l19	124	125	126	132	139	I40
01 Dec 2018	3*	2*	2*	2*	2*	3*	2*
02 Dec 2018	3*	2*	2*	2*	2*	3*	2*
03 Dec 2018	15	9	10	3	3	4	9
04 Dec 2018	15	9	10	3	3	4	9
05 Dec 2018	19*	14*	15*	3*	4*	4*	13*
06 Dec 2018	19*	14*	15*	3*	4*	4*	13*
07 Dec 2018	19*	14*	15*	3*	4*	4*	13*
08 Dec 2018	19*	14*	15*	3*	4*	4*	13*
09 Dec 2018	19*	14*	15*	3*	4*	4*	13*
10 Dec 2018	62	54	26	6	9	6	48
11 Dec 2018	62	54	26	6	9	6	48
12 Dec 2018	62	54	26	6	9	6	48
13 Dec 2018	62	54	26	6	9	6	48
14 Dec 2018	147*	124*	49*	8*	13*	7*	105*
15 Dec 2018	147*	124*	49*	8*	13*	7*	105*
16 Dec 2018	147*	124*	49*	8*	13*	7*	105*
17 Dec 2018	147*	124*	49*	8*	12	6	105*
18 Dec 2018	147*	124*	49*	8*	12	6	105*
19 Dec 2018	618*	488*	143*	13*	19*	7*	395*
20 Dec 2018	907*	353*	88*	14*	19*	7*	275*
21 Dec 2018	907*	353*	88*	14*	19*	7*	275*
22 Dec 2018	907*	353*	88*	14*	19*	7*	275*
23 Dec 2018	907*	353*	88*	14*	19*	7*	275*
24 Dec 2018	907*	353*	88*	14*	19*	7*	275*
25 Dec 2018	907*	353*	88*	14*	19*	7*	275*
26 Dec 2018	5022*	1980*	309*	27*	39*	8*	1423*
27 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
28 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
29 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
30 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*
31 Dec 2018	6675*	1816*	448*	32*	19*	6*	2549*

* Geometric mean calculated using n<5

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

Date	l19	124	125	126	132	139	I40
01 Dec 2018	2*	2*	2*	2*	2*	2*	2*
02 Dec 2018	2*	2*	2*	2*	2*	2*	2*
03 Dec 2018	6	6	6	2	2	2	6
04 Dec 2018	6	6	6	2	2	2	6
05 Dec 2018	8*	7*	8*	2*	2*	2*	7*
06 Dec 2018	8*	7*	8*	2*	2*	2*	7*
07 Dec 2018	8*	7*	8*	2*	2*	2*	7*
08 Dec 2018	8*	7*	8*	2*	2*	2*	7*
09 Dec 2018	8*	7*	8*	2*	2*	2*	7*
10 Dec 2018	20	19	12	3	4	2	19
11 Dec 2018	20	19	12	3	4	2	19
12 Dec 2018	20	19	12	3	4	2	19
13 Dec 2018	20	19	12	3	4	2	19
14 Dec 2018	36*	34*	18*	4*	5*	3*	32*
15 Dec 2018	36*	34*	18*	4*	5*	3*	32*
16 Dec 2018	36*	34*	18*	4*	5*	3*	32*
17 Dec 2018	36*	34*	18*	4*	4	2	32*
18 Dec 2018	36*	34*	18*	4*	4	2	32*
19 Dec 2018	95*	88*	38*	5*	5*	3*	82*
20 Dec 2018	133*	65*	18*	4*	5*	3*	59*
21 Dec 2018	133*	65*	18*	4*	5*	3*	59*
22 Dec 2018	133*	65*	18*	4*	5*	3*	59*
23 Dec 2018	133*	65*	18*	4*	5*	3*	59*
24 Dec 2018	133*	65*	18*	4*	5*	3*	59*
25 Dec 2018	133*	65*	18*	4*	5*	3*	59*
26 Dec 2018	539*	206*	38*	5*	8*	3*	183*
27 Dec 2018	700*	249*	56*	6*	5*	3*	330*
28 Dec 2018	700*	249*	56*	6*	5*	3*	330*
29 Dec 2018	700*	249*	56*	6*	5*	3*	330*
30 Dec 2018	700*	249*	56*	6*	5*	3*	330*
31 Dec 2018	700*	249*	56*	6*	5*	3*	330*

* Geometric mean calculated using n<5

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

Date	l19	124	125	126	132	139	I40
01 Dec 2018	2*	2*	2*	2*	2*	2*	2*
02 Dec 2018	2*	2*	2*	2*	2*	2*	2*
03 Dec 2018	4	4	4	2	2	2	3
04 Dec 2018	4	4	4	2	2	2	3
05 Dec 2018	4*	4*	4*	2*	2*	2*	3*
06 Dec 2018	4*	4*	4*	2*	2*	2*	3*
07 Dec 2018	4*	4*	4*	2*	2*	2*	3*
08 Dec 2018	4*	4*	4*	2*	2*	2*	3*
09 Dec 2018	4*	4*	4*	2*	2*	2*	3*
10 Dec 2018	9	10	7	4	4	3	7
11 Dec 2018	9	10	7	4	4	3	7
12 Dec 2018	9	10	7	4	4	3	7
13 Dec 2018	9	10	7	4	4	3	7
14 Dec 2018	13*	15*	10*	4*	5*	3*	10*
15 Dec 2018	13*	15*	10*	4*	5*	3*	10*
16 Dec 2018	13*	15*	10*	4*	5*	3*	10*
17 Dec 2018	13*	15*	10*	4*	6	3	10*
18 Dec 2018	13*	15*	10*	4*	6	3	10*
19 Dec 2018	24*	28*	16*	6*	8*	3*	18*
20 Dec 2018	33*	20*	17*	6*	8*	3*	18*
21 Dec 2018	33*	20*	17*	6*	8*	3*	18*
22 Dec 2018	33*	20*	17*	6*	8*	3*	18*
23 Dec 2018	33*	20*	17*	6*	8*	3*	18*
24 Dec 2018	33*	20*	17*	6*	8*	3*	18*
25 Dec 2018	33*	20*	17*	6*	8*	3*	18*
26 Dec 2018	84*	42*	34*	9*	12*	3*	37*
27 Dec 2018	120*	50*	43*	7*	8*	3*	61*
28 Dec 2018	120*	50*	43*	7*	8*	3*	61*
29 Dec 2018	120*	50*	43*	7*	8*	3*	61*
30 Dec 2018	120*	50*	43*	7*	8*	3*	61*
31 Dec 2018	120*	50*	43*	7*	8*	3*	61*

* Geometric mean calculated using n<5

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

Date	l19	124	125	126	132	139	140
03 Dec 2018	Е	IC	E	IC	IC	IC	IC
10 Dec 2018	Е	E	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	IC	IC	IC	IC	ns	ns	IC
27 Dec 2018	Е	IC	IC	IC	IC	IC	E

IC = In Compliance E = Exceedance ns = not sampled ND = no data

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

Date	l19	124	125	126	132	139	140
03 Dec 2018	Е	E	E	IC	IC	IC	E
10 Dec 2018	Е	E	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	Е	IC	IC	IC	ns	ns	IC
27 Dec 2018	Е	E	IC	IC	IC	IC	E

IC = In Compliance E = Exceedance ns = not sampled ND = no data

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

Date	l19	124	125	126	132	139	140
03 Dec 2018	IC						
10 Dec 2018	Е	E	IC	E	E	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	Е	IC	IC	IC	ns	ns	IC
27 Dec 2018	Е	IC	IC	IC	IC	IC	E

IC = In Compliance E = Exceedance ns = not sampled ND = no data

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

Date	l19	124	125	126	132	139	I40
03 Dec 2018	Е	Е	E	IC	IC	IC	E
10 Dec 2018	Е	IC	IC	IC	IC	IC	E
17 Dec 2018	ns	ns	ns	ns	IC	IC	ns
20 Dec 2018	Е	IC	IC	IC	ns	ns	IC
27 Dec 2018	Е	E	E	IC	IC	IC	E

IC = In Compliance E = Exceedance ns = not sampled

ND = no data

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total co-liform ratio (F:T) is unitless; values for temperature (Temp, $^{\circ}$ 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. Comments follow the data summary.

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pН
I19	03 Dec 2018	1210	2	5400	560	14e	0.10	16.9	53.39	7.9	33.68	8.1
I19	03 Dec 2018	1210	6	11000	620	100	0.06	16.1	44.85	7.3	33.62	8.1
I19	03 Dec 2018	1210	11	1200	60e	18e	0.05	15.3	48.10	6.8	33.59	8.0
I19	10 Dec 2018	1120	2	5400	760	120e	0.14	16.7	71.43	8.1	33.53	8.1
I19	10 Dec 2018	1120	6	6200	1200	180e	0.19	16.7	71.68	8.0	33.54	8.1
I19	10 Dec 2018	1120	11	11000	1200e	160e	0.11	16.7	72.08	8.0	33.55	8.1
I19	20 Dec 2018	838	2	4600	420	84	0.09	16.4	49.32	7.8	33.58	8.1
I19	20 Dec 2018	838	6	1600e	360e	66	0.22	16.4	49.94	7.7	33.58	8.1
I19	20 Dec 2018	838	11	2400e	300e	110	0.12	16.3	50.43	7.5	33.58	8.1
I19	27 Dec 2018	1149	2	14000	1200e	300e	0.09	16.2	51.59	8.0	33.54	8.1
I19	27 Dec 2018	1149	6	17000e	1400e	300e	0.08	16.1	51.82	8.0	33.54	8.1
I19	27 Dec 2018	1149	11	>16000	2000e	460	0.12	16.1	51.95	7.9	33.55	8.1
124	03 Dec 2018	1234	2	9400	320e	46	0.03	16.9	57.87	7.7	33.67	8.1
124	03 Dec 2018	1234	6	3000e	500	52	0.17	16.6	56.55	7.4	33.69	8.1
124	03 Dec 2018	1234	11	2000e	160e	28e	0.08	15.3	33.29	6.5	33.60	8.0
124	10 Dec 2018	1143	2	>16000	1600e	220e	0.10	16.5	49.69	7.9	33.41	8.1
124	10 Dec 2018	1143	6	>16000	1200e	400	0.07	16.4	51.55	7.8	33.44	8.1
124	10 Dec 2018	1143	11	4400	280e	200e	0.06	16.6	57.54	7.5	33.52	8.1
124	20 Dec 2018	815	2	120e	32e	8e	0.27	16.5	48.77	7.9	33.58	8.1
124	20 Dec 2018	815	6	120e	18e	4e	0.15	16.5	48.11	7.8	33.58	8.1
124	20 Dec 2018	815	11	160e	28e	8e	0.17	16.5	13.64	7.2	33.59	8.0
124	27 Dec 2018	1208	2	1400	320e	100	0.23	16.1	59.06	7.9	33.58	8.1
124	27 Dec 2018	1208	6	1600	480	66	0.30	16.1	56.95	7.8	33.58	8.1
124	27 Dec 2018	1208	11	1200	520	80	0.43	16.1	42.44	7.7	33.59	8.1
125	03 Dec 2018	1243	2	13000	720	56	0.06	16.9	58.51	7.7	33.65	8.1
125	03 Dec 2018	1243	6	5000	540	52	0.11	16.4	56.72	7.4	33.68	8.1
125	03 Dec 2018	1243	9	3000	320e	16e	0.11	15.5	34.88	6.7	33.61	8.0
125	10 Dec 2018	1153	2	70	12e	32e	0.17	16.8	73.45	7.9	33.55	8.1
125	10 Dec 2018	1153	6	280e	74	66	0.26	16.7	71.20	7.8	33.55	8.1
125	10 Dec 2018	1153	9	280e	68	56	0.24	16.7	72.76	7.8	33.55	8.1
125	20 Dec 2018	807	2	<20	<2	12e	0.10	16.5	32.60	7.9	33.58	8.0
125	20 Dec 2018	807	6	20e	<2	20e	0.10	16.5	25.52	7.9	33.57	8.0
125	20 Dec 2018	807	9	<20	2e	26e	0.10	16.5	9.05	7.7	33.57	8.0
125	27 Dec 2018	1214	2	1100	180e	88	0.16	16.1	59.41	7.8	33.59	8.1
125	27 Dec 2018	1214	6	1500	120e	68	0.08	16.1	59.98	7.8	33.59	8.1
125	27 Dec 2018	1214	9	1500	260e	90	0.17	16.1	59.29	7.8	33.58	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	pН
100	02 Dec 2010	1201	0	0.5	~0	~ 2	0.05	10.0	CO 47		22.72	0.4
126	03 Dec 2018	1301	2	8e	<2	<2	0.25	16.8	60.47	7.7	33.72	8.1
126	03 Dec 2018	1301	6	<2	<2	<2	1.00	16.4	61.78	7.5	33.70	8.1
126	03 Dec 2018	1301	9	<20	<2	<2	0.10	15.1	39.61	6.8	33.59	8.0
126	10 Dec 2018	1204	2	26e	4e	6e	0.15	16.9	74.68	7.9	33.56	8.1
126	10 Dec 2018	1204	6	60e	10e	22e	0.17	16.7	74.29	7.8	33.56	8.1
126	10 Dec 2018	1204	9	260e	60	120e	0.23	16.6	58.98	7.5	33.54	8.1
126	20 Dec 2018	857	2	<20	<2	4e	0.10	16.5	49.66	7.9	33.56	8.1
126	20 Dec 2018	857	6	10e	<2	6e	0.20	16.5	47.70	7.9	33.56	8.1
126	20 Dec 2018	857	9	<20	<2	10e	0.10	16.5	40.65	7.8	33.56	8.1
126	27 Dec 2018	1223	2	<20	14e	4e	0.70	16.0	49.77	7.8	33.52	8.1
126	27 Dec 2018	1223	6	80e	2e	4e	0.02	16.0	51.83	7.9	33.61	8.1
126	27 Dec 2018	1223	9	60e	14e	2e	0.23	16.0	51.52	7.8	33.61	8.1
132	03 Dec 2018	1313	2	<2	<2	<2	1.00	16.7	60.49	7.6	33.71	8.1
132	03 Dec 2018	1313	6	<20	<2	<2	0.10	15.6	63.69	7.1	33.63	8.1
132	03 Dec 2018	1313	9	40e	6e	<2	0.15	15.3	55.32	6.9	33.62	8.1
132	10 Dec 2018	1219	2	20e	10e	30e	0.50	16.5	61.39	8.2	33.47	8.1
132	10 Dec 2018	1219	6	460	74	100e	0.16	16.3	60.71	8.0	33.47	8.1
132	10 Dec 2018	1219	9	440	110	160e	0.25	16.2	59.27	8.1	33.47	8.1
132	17 Dec 2018	1155	2	<2	<2	4e	1.00	16.8	59.44	8.1	33.55	8.1
132	17 Dec 2018	1155	6	20e	<2	10e	0.10	16.4	47.05	8.1	33.55	8.1
132	17 Dec 2018	1155	9	20e 6e	<2	12e	0.33	16.4	42.68	8.2	33.55	8.1
										0.2		
132	27 Dec 2018	1234	2	<2	<2	<2	1.00	16.0	58.86	8.0	33.62	8.1
132	27 Dec 2018	1234	6	<2	<2	<2	1.00	16.0	59.35	8.0	33.62	8.1
132	27 Dec 2018	1234	9	<2	<2	<2	1.00	16.0	59.65	7.9	33.62	8.1
100								10.0				
139	03 Dec 2018	1152	2	<2	<2	<2	1.00	16.6	64.81	7.6	33.70	8.1
139	03 Dec 2018	1152	12	16e	4e	<2	0.25	14.4	79.49	6.7	33.57	8.0
139	03 Dec 2018	1152	18	38e	4e	<2	0.11	14.3	76.17	6.6	33.57	8.0
139	10 Dec 2018	1055	2	<2	<2	<2	1.00	17.1	86.21	7.8	33.64	8.1
139	10 Dec 2018	1055	12	<2	<2	<2	1.00	17.1	86.13	7.8	33.64	8.1
139	10 Dec 2018	1055	18	40e	6e	24e	0.15	16.9	72.44	7.6	33.62	8.1
139	17 Dec 2018	1054	2	<2	<2	<2	1.00	16.8	78.23	7.8	33.59	8.1
139	17 Dec 2018	1054	12	2e	<2	<2	1.00	16.6	76.94	7.8	33.59	8.1
139	17 Dec 2018	1054	18	<2	<2	<2	1.00	16.5	68.17	7.4	33.60	8.1
100	07 Dee 0040	1100		-0	-0	-0	1.00	16.4	04 00	7.0	22.02	0.4
139 139	27 Dec 2018 27 Dec 2018	1123 1123	2 12	<2 <2	<2 <2	<2 <2	1.00 1.00	16.1 15.9	81.39 78.26	7.8 7.7	33.63 33.63	8.1 8.1
139	27 Dec 2018	1123	18	<2	<2	<2	1.00	15.8	73.73	7.5	33.61	8.1
140	03 Dec 2018	1223	2	6400	580	26e	0.09	17.0	52.06	7.8	33.52	8.1
140	03 Dec 2018	1223	6	3400e	440	28e	0.13	16.2	46.36	7.1	33.65	8.1
140	03 Dec 2018	1223	9	720	60e	<2	0.08	15.3	43.12	6.7	33.59	8.1
140	10 Dec 2018	1134	2	>16000	1200e	80e	0.07	16.6	56.88	8.0	33.50	8.1
140	10 Dec 2018	1134	6	5600	480	120e	0.09	16.6	61.44	7.9	33.55	8.1

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	рН
I40	10 Dec 2018	1134	9	4800	640	260e	0.13	16.5	46.51	7.7	33.55	8.1
140	20 Dec 2018	826	2	140e	26e	12e	0.19	16.5	43.64	7.9	33.59	8.1
140	20 Dec 2018	826	6	40e	22e	20e	0.55	16.5	41.43	7.8	33.59	8.1
140	20 Dec 2018	826	9	100e	18e	22e	0.18	16.5	34.93	7.7	33.59	8.1
140	27 Dec 2018	1200	2	16000	2600e	180e	0.16	16.1	52.66	8.0	33.53	8.1
140	27 Dec 2018	1200	6	14000	1200	340e	0.09	16.1	52.45	8.0	33.53	8.1
I40	27 Dec 2018	1200	9	14000	2000e	280e	0.14	16.0	46.96	8.0	33.55	8.1

ns = not sampled

ND = no data

Comments

Station	Date	Depth	Parameter	Comments
125	17 Dec 2018			Unable to sample due to unsafe condi-
				tions
119	17 Dec 2018			Unable to sample due to unsafe condi-
				tions
124	17 Dec 2018			Unable to sample due to unsafe condi-
				tions
126	17 Dec 2018			Unable to sample due to unsafe condi-
				tions
I40	17 Dec 2018			Unable to sample due to unsafe condi-
				tions

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

Station	Date	Parameter	Value
l19	03 Dec 2018	Depth (m)	9
I19	03 Dec 2018	Arrive Time	1210
l19	03 Dec 2018	Depart Time	1216
I19	03 Dec 2018	Air Temp (C)	16
I19	03 Dec 2018	Weather	Clear
I19	03 Dec 2018	Visibility (mi)	15
I19	03 Dec 2018	Wind Speed (kts)	10
I19	03 Dec 2018	Wind Dir	SW
I19	03 Dec 2018	Water Color	Green
l19	03 Dec 2018	Wave Ht Low (ft)	4
l19	03 Dec 2018	Wave Period (sec)	13
l19	03 Dec 2018	Sea State	Light chop
l19	03 Dec 2018	High Tide (ft)	5.76
I19	03 Dec 2018	High Tide Time	607
I19	03 Dec 2018	Low Tide (ft)	0.18
l19	03 Dec 2018	Low Tide Time	53
l19	03 Dec 2018	Comments	none
119	10 Dec 2018	Depth (m)	12
119	10 Dec 2018	Arrive Time	1120
119	10 Dec 2018	Depart Time	1125
119	10 Dec 2018	Air Temp (C)	16
119	10 Dec 2018	Weather	Overcast
119	10 Dec 2018	Visibility (mi)	12
119	10 Dec 2018	Wind Speed (kts)	4
119	10 Dec 2018	Wind Dir	N
119	10 Dec 2018	Water Color	Green
119	10 Dec 2018	Wave Ht Low (ft)	3
119	10 Dec 2018	Wave Period (sec)	13
119	10 Dec 2018	Sea State	Calm
119	10 Dec 2018	High Tide (ft)	5.35
119	10 Dec 2018	High Tide Time	951
119	10 Dec 2018	Low Tide (ft)	2.39
119	10 Dec 2018	Low Tide Time	348
119	10 Dec 2018	Comments	none
110	17 Dec 2019	Depth (m)	15
I19 I19	17 Dec 2018	Depth (m) Arrivo Timo	15
119	17 Dec 2018	Arrive Time Depart Time	1115 1116
119 119	17 Dec 2018	Air Temp (C)	16
119 119	17 Dec 2018 17 Dec 2018	Weather	Partly Cloudy
119	17 Dec 2018 17 Dec 2018	Visibility (mi)	10
119	17 Dec 2018 17 Dec 2018	Wind Speed (kts)	1
119	17 Dec 2018 17 Dec 2018	Wind Speed (kts) Wind Dir	SW
119	17 Dec 2018 17 Dec 2018	Water Color	Brownish-Green
119	17 Dec 2018 17 Dec 2018	Wave Ht Low (ft)	10
119	17 Dec 2018 17 Dec 2018	Wave Period (sec)	13
119	17 Dec 2018 17 Dec 2018	Sea State	Calm
119	17 Dec 2018 17 Dec 2018	High Tide (ft)	4.76
119	17 Dec 2018 17 Dec 2018	High Tide (it)	458
I19 I19	17 Dec 2018 17 Dec 2018	Low Tide (ft)	1.31
113	11 Dec 2010		1.01

11917 Dec 2018Low Tide Time114611920 Dec 2018OemmentsUnable to approach station due to unsafe conditions11920 Dec 2018Arive Time83811920 Dec 2018Arive Time83811920 Dec 2018Arive Time84111920 Dec 2018WeatherPartly Cloudy11920 Dec 2018Wind PirN11920 Dec 2018Wind DirN11920 Dec 2018Wind ColorBrownish-Green11920 Dec 2018Ware ColorBrownish-Green11920 Dec 2018Sas StateCalm11920 Dec 2018High Tide (Time64011920 Dec 2018Det Tide Time142511920 Dec 2018Det Tide Time142611920 Dec 2018Det Tide Time142611927 Dec 2018Det Tide Time142611927 Dec 2018Det Tide Time145111927 Dec 2018Mort Sea ColorS11927 Dec 2018Ware Period (sec)911927 Dec 2018Ware Period (sec)911927 Dec 2018Ware Period (sec)911927 Dec 2018 </th <th>Station</th> <th>Date</th> <th>Parameter</th> <th>Value</th>	Station	Date	Parameter	Value
119 20 Dec 2018 Depth (m) 10 119 20 Dec 2018 Arrive Time 833 119 20 Dec 2018 Arrive Time 841 119 20 Dec 2018 Weather Parily Cloudy 119 20 Dec 2018 Wind Dir N 119 20 Dec 2018 Wind Dir N 119 20 Dec 2018 Wind Dir N 119 20 Dec 2018 Wave Period (sec) 13 119 20 Dec 2018 Wave Period (sec) 13 119 20 Dec 2018 High Tide Time 640 119 20 Dec 2018 Low Tide (ft) 6.1 119 20 Dec 2018 Low Tide (ft) 1.2 119 20 Dec 2018 Low Tide (ft) 1.2 119 20 Dec 2018 Comments none 119 20 Dec 2018 Depth (m) 12 119 27 Dec 2018 Arive Time 1151 119 27 Dec 2018 View Time 1149 119 27 Dec 2018 Wave Period (sec) 9 119	119	17 Dec 2018	Low Tide Time	1146
119 20 Dec 2018 Arrive Time 838 119 20 Dec 2018 Depart Time 841 119 20 Dec 2018 Weather Partly Cloudy 119 20 Dec 2018 Wind Speed (kts) 11 119 20 Dec 2018 Wind Speed (kts) 11 119 20 Dec 2018 Ware HLow (ft) 8 119 20 Dec 2018 Ware HLow (ft) 8 119 20 Dec 2018 Sea State Caim 119 20 Dec 2018 High Tide (ft) 6.1 119 20 Dec 2018 Low Tide (ft) 1.3 119 20 Dec 2018 Low Tide (ft) 1.39 119 20 Dec 2018 Low Tide (ft) 1.39 119 20 Dec 2018 Comments none 119 27 Dec 2018 Arrive Time 1143 119 27 Dec 2018 Wind Speed (kts) 14 119 27 Dec 2018 Wind Speed (kts) 14 119 27 Dec 2018 Wind Speed (kts) 14	119	17 Dec 2018	Comments	Unable to approach station due to unsafe conditions
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119 20 Dec 2018 Weather Partly Cloudy 119 20 Dec 2018 Wind Speed (tks) 11 119 20 Dec 2018 Wind Speed (tks) 11 119 20 Dec 2018 Wind Dir N 119 20 Dec 2018 Water Color Brownish-Green 119 20 Dec 2018 Sea State Calm 119 20 Dec 2018 Sea State Calm 119 20 Dec 2018 Low Tide (fth) 1.3 119 20 Dec 2018 Low Tide Time 14255 119 20 Dec 2018 Low Tide Time 12255 119 20 Dec 2018 Depth (m) 12 119 27 Dec 2018 Meather Partly Cloudy 119 27 Dec 2018 Water Color Green 119 27 Dec 2018 Water HLow (ft) 5	l19	20 Dec 2018	Depart Time	841
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119 20 Dec 2018 Wind Dir N 119 20 Dec 2018 Water Color Brownish-Green 119 20 Dec 2018 Wave Ht Low (ft) 8 119 20 Dec 2018 Wave Folor (sec) 13 119 20 Dec 2018 Sea State Calm 119 20 Dec 2018 High Tide (ft) 6.1 119 20 Dec 2018 Low Tide (ft) 1.39 119 20 Dec 2018 Low Tide (ft) 1.39 119 20 Dec 2018 Low Tide Time 1225 119 20 Dec 2018 Low Tide Time 1149 119 27 Dec 2018 Comments none 119 27 Dec 2018 Merter Partly Cloudy 119 27 Dec 2018 Weisher Partly Cloudy 119 27 Dec 2018 Wind Dir S 119 27 Dec 2018 Water Color Green 119 27 Dec 2018 Water How (ft) 5 119 27 Dec 2018 Water How (ft) 5 119 27 Dec 2018 Water How (ft) 5	l19	20 Dec 2018	Weather	Partly Cloudy
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119 20 Dec 2018 Water Color Brownish-Green 119 20 Dec 2018 Wave Period (sec) 13 119 20 Dec 2018 Sea State Calm 119 20 Dec 2018 High Tide Time 640 119 20 Dec 2018 Low Tide (ft) 1.39 119 20 Dec 2018 Comments none 119 27 Dec 2018 Depth (m) 12 119 27 Dec 2018 Air Wer Time 1149 119 27 Dec 2018 Wather Parity Cloudy 119 27 Dec 2018 Wind Speed (kts) 14 119 27 Dec 2018 Water Color Green 119 27 Dec 2018 Water Color Green 119 27 Dec 2018 Water Parity Eine 103 119 27 Dec 2018 Nave Period (sec) 9 119 27 Dec 2018 Low Tide (ft) 2.1	l19	20 Dec 2018	Wind Speed (kts)	11
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I24 03 Dec 2018 Arrive Time 1234 I24 03 Dec 2018 Depart Time 1239 I24 03 Dec 2018 Air Temp (C) 16 I24 03 Dec 2018 Weather Clear I24 03 Dec 2018 Visibility (mi) 15 I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 0.18	124	03 Dec 2018	Depth (m)	10
I24 03 Dec 2018 Depart Time 1239 I24 03 Dec 2018 Air Temp (C) 16 I24 03 Dec 2018 Weather Clear I24 03 Dec 2018 Visibility (mi) 15 I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 0.18				
I24 03 Dec 2018 Air Temp (C) 16 I24 03 Dec 2018 Weather Clear I24 03 Dec 2018 Visibility (mi) 15 I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Weather Clear I24 03 Dec 2018 Visibility (mi) 15 I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 0.18			•	
I24 03 Dec 2018 Visibility (mi) 15 I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 607 I24 03 Dec 2018 Low Tide (ft) 0.18			,	
I24 03 Dec 2018 Wind Speed (kts) 10 I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide (ft) 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Wind Dir S I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Water Color Brownish-Green I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Wave Ht Low (ft) 4 I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Wave Period (sec) 13 I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 Sea State Light chop I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 High Tide (ft) 5.76 I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
I24 03 Dec 2018 High Tide Time 607 I24 03 Dec 2018 Low Tide (ft) 0.18				
124 03 Dec 2018 Low Tide (ft) 0.18				
124 US Dec ZUTA LOW Hae Hime 33	124	03 Dec 2018	Low Tide Time	53

Station	Date	Parameter	Value
124	03 Dec 2018	Comments	none
124	10 Dec 2018	Depth (m)	12
124	10 Dec 2018	Arrive Time	1143
124	10 Dec 2018	Depart Time	1149
124	10 Dec 2018	Air Temp (C)	16
124	10 Dec 2018	Weather	Overcast
124	10 Dec 2018	Visibility (mi)	12
124	10 Dec 2018	Wind Speed (kts)	4
124	10 Dec 2018	Wind Dir	NW
124	10 Dec 2018	Water Color	Green
124	10 Dec 2018	Wave Ht Low (ft)	3
124	10 Dec 2018	Wave Period (sec)	13
124	10 Dec 2018	Sea State	Calm
124	10 Dec 2018	High Tide (ft)	5.35
124	10 Dec 2018	High Tide Time	951
124	10 Dec 2018	Low Tide (ft)	2.39
124	10 Dec 2018	Low Tide Time	348
124	10 Dec 2018	Comments	none
124	17 Dec 2018	Depth (m)	16
124	17 Dec 2018	Arrive Time	1127
124	17 Dec 2018	Depart Time	1127
124	17 Dec 2018	Air Temp (C)	16
124	17 Dec 2018	Weather	Partly Cloudy
124	17 Dec 2018	Visibility (mi)	10
124	17 Dec 2018	Wind Speed (kts)	3
124	17 Dec 2018	Wind Dir	Ν
124	17 Dec 2018	Water Color	Brownish-Green
124	17 Dec 2018	Wave Ht Low (ft)	10
124	17 Dec 2018	Wave Period (sec)	13
124	17 Dec 2018	Sea State	Calm
124	17 Dec 2018	High Tide (ft)	4.76
124	17 Dec 2018	High Tide Time	458
124	17 Dec 2018	Low Tide (ft)	1.31
124	17 Dec 2018	Low Tide Time	1146
124	17 Dec 2018	Comments	Unable to approach station due to unsafe conditions
10.4	00 D 0040	Denth ()	44
124	20 Dec 2018	Depth (m)	11
124	20 Dec 2018	Arrive Time	815
124	20 Dec 2018	Depart Time	818
124	20 Dec 2018	Air Temp (C)	13 Barthy Claudy
124	20 Dec 2018	Weather	Partly Cloudy
124	20 Dec 2018	Visibility (mi) Wind Speed (kts)	6
124	20 Dec 2018	Wind Speed (kts)	4
124	20 Dec 2018	Wind Dir Water Color	NW Brownish Croon
124	20 Dec 2018	Water Color	Brownish-Green
124	20 Dec 2018	Wave Ht Low (ft)	8
124	20 Dec 2018	Wave Period (sec)	13 Colm
124	20 Dec 2018	Sea State	Calm 6.1
124 124	20 Dec 2018	High Tide (ft) High Tide Time	6.1 640
124 124	20 Dec 2018	High Tide Time	1.39
124 124	20 Dec 2018 20 Dec 2018	Low Tide (ft) Low Tide Time	1225
124 124	20 Dec 2018 20 Dec 2018	Comments	
124	20 000 2010	Commenta	none

Station	Date	Parameter	Value
	07 D 0010		
124	27 Dec 2018	Depth (m)	11
124	27 Dec 2018	Arrive Time	1208
124	27 Dec 2018	Depart Time	1212
124	27 Dec 2018	Air Temp (C)	15
124	27 Dec 2018	Weather	Partly Cloudy
124	27 Dec 2018	Visibility (mi)	9
124	27 Dec 2018	Wind Speed (kts)	14
124	27 Dec 2018	Wind Dir	S
124	27 Dec 2018	Water Color	Green
124	27 Dec 2018	Wave Ht Low (ft)	5
124	27 Dec 2018	Wave Period (sec)	9
124	27 Dec 2018	Sea State	Confused swell
124	27 Dec 2018	High Tide (ft)	4.12
124	27 Dec 2018	High Tide Time	103
124	27 Dec 2018	Low Tide (ft)	2.15
124	27 Dec 2018	Low Tide Time	623
124	27 Dec 2018	Comments	none
125	03 Dec 2018	Depth (m)	10
125	03 Dec 2018	Arrive Time	1243
125	03 Dec 2018	Depart Time	1254
125	03 Dec 2018	, Air Temp (C)	16
125	03 Dec 2018	Weather	Clear
125	03 Dec 2018	Visibility (mi)	15
125	03 Dec 2018	Wind Speed (kts)	11
125	03 Dec 2018	Wind Dir	SW
125	03 Dec 2018	Water Color	Brownish-Green
125	03 Dec 2018	Wave Ht Low (ft)	4
125	03 Dec 2018	Wave Period (sec)	13
125	03 Dec 2018	Sea State	Light chop
125	03 Dec 2018	High Tide (ft)	5.76
125	03 Dec 2018	High Tide Time	607
125	03 Dec 2018 03 Dec 2018	Low Tide (ft)	0.18
125		Low Tide (it)	53
125	03 Dec 2018		
125	03 Dec 2018	Comments	none
125	10 Dec 2018	Depth (m)	10
125	10 Dec 2018	Arrive Time	1153
125	10 Dec 2018	Depart Time	1158
125	10 Dec 2018	Air Temp (C)	16
125	10 Dec 2018	Weather	Overcast
125	10 Dec 2018	Visibility (mi)	12
125	10 Dec 2018	Wind Speed (kts)	4
125	10 Dec 2018	Wind Dir	NW
125	10 Dec 2018	Water Color	Green
125	10 Dec 2018	Wave Ht Low (ft)	3
125	10 Dec 2018	Wave Period (sec)	13
125	10 Dec 2018	Sea State	Calm
125	10 Dec 2018	High Tide (ft)	5.35
125	10 Dec 2018	High Tide Time	951
125	10 Dec 2018	Low Tide (ft)	2.39
125	10 Dec 2018	Low Tide (it)	348
125	10 Dec 2018	Comments	
120	10 Dec 2010	Comments	none

I25 17 Dec 2018 Depth (m) 12 I25 17 Dec 2018 Arrive Time 1130 I25 17 Dec 2018 Depart Time 1130 I25 17 Dec 2018 Depart Time 1130 I25 17 Dec 2018 Air Temp (C) 16 I25 17 Dec 2018 Weather Partly Cloudy I25 17 Dec 2018 Visibility (mi) 10 I25 17 Dec 2018 Wind Speed (kts) 5 I25 17 Dec 2018 Wind Dir NW I25 17 Dec 2018 Water Color Brownish-Green I25 17 Dec 2018 Wave Ht Low (ft) 10	
I25 17 Dec 2018 Depart Time 1130 I25 17 Dec 2018 Air Temp (C) 16 I25 17 Dec 2018 Weather Partly Cloudy I25 17 Dec 2018 Visibility (mi) 10 I25 17 Dec 2018 Wind Speed (kts) 5 I25 17 Dec 2018 Wind Dir NW I25 17 Dec 2018 Water Color Brownish-Green	
I25 17 Dec 2018 Air Temp (C) 16 I25 17 Dec 2018 Weather Partly Cloudy I25 17 Dec 2018 Visibility (mi) 10 I25 17 Dec 2018 Wind Speed (kts) 5 I25 17 Dec 2018 Wind Dir NW I25 17 Dec 2018 Water Color Brownish-Green	
I2517 Dec 2018WeatherPartly CloudyI2517 Dec 2018Visibility (mi)10I2517 Dec 2018Wind Speed (kts)5I2517 Dec 2018Wind DirNWI2517 Dec 2018Water ColorBrownish-Green	
I2517 Dec 2018WeatherPartly CloudyI2517 Dec 2018Visibility (mi)10I2517 Dec 2018Wind Speed (kts)5I2517 Dec 2018Wind DirNWI2517 Dec 2018Water ColorBrownish-Green	
I25 17 Dec 2018 Wind Speed (kts) 5 I25 17 Dec 2018 Wind Dir NW I25 17 Dec 2018 Water Color Brownish-Green	
I25 17 Dec 2018 Wind Speed (kts) 5 I25 17 Dec 2018 Wind Dir NW I25 17 Dec 2018 Water Color Brownish-Green	
I2517 Dec 2018Wind DirNWI2517 Dec 2018Water ColorBrownish-Green	
I25 17 Dec 2018 Water Color Brownish-Green	
I25 17 Dec 2018 Wave Period (sec) 13	
I25 17 Dec 2018 Sea State Calm	
I25 17 Dec 2018 High Tide (ft) 4.76	
125 17 Dec 2018 High Tide Time 458	
125 17 Dec 2018 Low Tide (ft) 1.31	
125 17 Dec 2018 Low Tide (ii) 1.51	
	atation due to uncefe conditions
I25 17 Dec 2018 Comments Unable to approach	station due to unsafe conditions
I25 20 Dec 2018 Depth (m) 11	
125 20 Dec 2018 Depth (m) 11 125 20 Dec 2018 Arrive Time 807	
I25 20 Dec 2018 Air Temp (C) 13 I05 00 Dec 2009 Wasther Decthe Olevelue	
I25 20 Dec 2018 Weather Partly Cloudy	
I25 20 Dec 2018 Visibility (mi) 6	
125 20 Dec 2018 Wind Speed (kts) 7	
125 20 Dec 2018 Wind Dir NW	
I25 20 Dec 2018 Water Color Brownish-Green	
I25 20 Dec 2018 Wave Ht Low (ft) 8	
I25 20 Dec 2018 Wave Period (sec) 13	
I25 20 Dec 2018 Sea State Calm	
I25 20 Dec 2018 High Tide (ft) 6.1	
I25 20 Dec 2018 High Tide Time 640	
I25 20 Dec 2018 Low Tide (ft) 1.39	
I25 20 Dec 2018 Low Tide Time 1225	
I25 20 Dec 2018 Comments none	
I25 27 Dec 2018 Depth (m) 10	
I25 27 Dec 2018 Arrive Time 1214	
I25 27 Dec 2018 Depart Time 1216	
I25 27 Dec 2018 Air Temp (C) 15	
I25 27 Dec 2018 Weather Partly Cloudy	
I25 27 Dec 2018 Visibility (mi) 9	
I25 27 Dec 2018 Wind Speed (kts) 14	
I25 27 Dec 2018 Wind Dir S	
I25 27 Dec 2018 Water Color Green	
I25 27 Dec 2018 Wave Ht Low (ft) 5	
125 27 Dec 2018 Wave Period (sec) 9	
I25 27 Dec 2018 Sea State Confused swell	
I25 27 Dec 2018 High Tide (ft) 4.12	
125 27 Dec 2018 High Tide Time 103	
125 27 Dec 2018 Low Tide (ft) 2.15	
125 27 Dec 2018 Low Tide (ii) 2.13 125 27 Dec 2018 Low Tide Time 623	
125 27 Dec 2018 Low ride rime 025 125 27 Dec 2018 Comments none	
I26 03 Dec 2018 Depth (m) 10	

Station	Date	Parameter	Value
126	03 Dec 2018	Arrive Time	1301
126	03 Dec 2018	Depart Time	1305
126	03 Dec 2018	Air Temp (C)	16
126	03 Dec 2018	Weather	Clear
126	03 Dec 2018	Visibility (mi)	15
126	03 Dec 2018	Wind Speed (kts)	10
126	03 Dec 2018	Wind Dir	W
126	03 Dec 2018	Water Color	Brownish-Green
126	03 Dec 2018	Wave Ht Low (ft)	4
126	03 Dec 2018	Wave Period (sec)	13
126	03 Dec 2018	Sea State	Light chop
126	03 Dec 2018	High Tide (ft)	5.76
126	03 Dec 2018	High Tide Time	607
126	03 Dec 2018	Low Tide (ft)	0.18
126	03 Dec 2018	Low Tide Time	53
126	03 Dec 2018	Comments	none
120	00 Dec 2010	Comments	none
126	10 Dec 2018	Depth (m)	10
120	10 Dec 2018 10 Dec 2018	Arrive Time	1204
126	10 Dec 2018 10 Dec 2018		1204
126	10 Dec 2018 10 Dec 2018	Depart Time	1210
		Air Temp (C)	
126	10 Dec 2018	Weather	Overcast
126	10 Dec 2018	Visibility (mi)	12
126	10 Dec 2018	Wind Speed (kts)	4
126	10 Dec 2018	Wind Dir	NW
126	10 Dec 2018	Water Color	Green
126	10 Dec 2018	Wave Ht Low (ft)	3
126	10 Dec 2018	Wave Period (sec)	13
126	10 Dec 2018	Sea State	Calm
126	10 Dec 2018	High Tide (ft)	5.35
126	10 Dec 2018	High Tide Time	951
126	10 Dec 2018	Low Tide (ft)	2.39
126	10 Dec 2018	Low Tide Time	348
126	10 Dec 2018	Comments	none
126	17 Dec 2018	Depth (m)	12
126	17 Dec 2018	Arrive Time	1137
126	17 Dec 2018	Depart Time	1137
126	17 Dec 2018	, Air Temp (C)	16
126	17 Dec 2018	Weather	Partly Cloudy
126	17 Dec 2018	Visibility (mi)	10
126	17 Dec 2018	Wind Speed (kts)	8
126	17 Dec 2018	Wind Dir	Ŵ
126	17 Dec 2018	Water Color	Brownish-Green
126	17 Dec 2018	Wave Ht Low (ft)	10
126	17 Dec 2018	Wave Period (sec)	13
120	17 Dec 2018	Sea State	Calm
120	17 Dec 2018	High Tide (ft)	4.76
120	17 Dec 2018 17 Dec 2018	High Tide Time	458
120	17 Dec 2018 17 Dec 2018	Low Tide (ft)	1.31
126	17 Dec 2018 17 Dec 2018	Low Tide (it)	1146
126	17 Dec 2018 17 Dec 2018	Comments	Unable to approach station due to unsafe conditions
120	17 Dec 2010	Comments	onable to approach station due to unsale conditions
126	20 Dec 2018	Depth (m)	11
126	20 Dec 2018	Arrive Time	857
	10 200 2010		

Station	Date	Parameter	Value
126	20 Dec 2018	Depart Time	901
126	20 Dec 2018	Air Temp (C)	14
126	20 Dec 2018	Weather	Partly Cloudy
126	20 Dec 2018	Visibility (mi)	6
126	20 Dec 2018	Wind Speed (kts)	13
126	20 Dec 2018	Wind Dir	NW
126	20 Dec 2018	Water Color	Brownish-Green
126	20 Dec 2018	Wave Ht Low (ft)	8
126	20 Dec 2018	Wave Period (sec)	13
126	20 Dec 2018	Sea State	Calm
126	20 Dec 2018	High Tide (ft)	6.1
126	20 Dec 2018	High Tide Time	640
126	20 Dec 2018	Low Tide (ft)	1.39
126	20 Dec 2018	Low Tide Time	1225
126	20 Dec 2018	Comments	none
126	27 Dec 2018	Depth (m)	10
126	27 Dec 2018	Arrive Time	1223
126	27 Dec 2018	Depart Time	1226
126	27 Dec 2018	Air Temp (C)	15
126	27 Dec 2018	Weather	Partly Cloudy
126	27 Dec 2018	Visibility (mi)	9
126	27 Dec 2018	Wind Speed (kts)	15
120	27 Dec 2010 27 Dec 2018	Wind Dir	S
120	27 Dec 2018	Water Color	Green
120	27 Dec 2018 27 Dec 2018	Wave Ht Low (ft)	5
120	27 Dec 2018 27 Dec 2018	Wave Period (sec)	9
120	27 Dec 2018	Sea State	Confused swell
120	27 Dec 2018 27 Dec 2018	High Tide (ft)	4.12
120	27 Dec 2018 27 Dec 2018		103
120	27 Dec 2018 27 Dec 2018	High Tide Time Low Tide (ft)	2.15
120	27 Dec 2018 27 Dec 2018	Low Tide Time	623
120	27 Dec 2018 27 Dec 2018	Comments	
120	27 Dec 2018	Comments	none
132	03 Dec 2018	Depth (m)	10
132		Arrive Time	1313
132	03 Dec 2018 03 Dec 2018	Depart Time	1318
132	03 Dec 2018 03 Dec 2018	Air Temp (C)	16
132	03 Dec 2018 03 Dec 2018	Weather	Clear
132			15
	03 Dec 2018	Visibility (mi) Wind Speed (kts)	
132	03 Dec 2018 03 Dec 2018	Wind Speed (kts) Wind Dir	17 W
132 132		Wind Dir Water Color	w Brownish-Green
	03 Dec 2018		
132	03 Dec 2018	Wave Ht Low (ft)	4
132	03 Dec 2018	Wave Period (sec)	13 Light shap
132	03 Dec 2018	Sea State	Light chop
132	03 Dec 2018	High Tide (ft)	5.76
132	03 Dec 2018	High Tide Time	607
132	03 Dec 2018	Low Tide (ft)	0.18
132	03 Dec 2018	Low Tide Time	53
132	03 Dec 2018	Comments	none
132	10 Dec 2018	Denth (m)	11
132		Depth (m) Arrive Time	
132	10 Dec 2018	Arrive Time	1219
132	10 Dec 2018	Depart Time	1228

Station	Date	Parameter	Value
132	10 Dec 2018	Air Temp (C)	16
132	10 Dec 2018	Weather	Overcast
132	10 Dec 2018	Visibility (mi)	12
132	10 Dec 2018	Wind Speed (kts)	0
132	10 Dec 2018	Wind Dir	
132	10 Dec 2018	Water Color	Green
132	10 Dec 2018	Wave Ht Low (ft)	3
132	10 Dec 2018	Wave Period (sec)	13
132	10 Dec 2018	Sea State	Calm
132	10 Dec 2018	High Tide (ft)	5.35
132	10 Dec 2018	High Tide Time	951
132	10 Dec 2018	Low Tide (ft)	2.39
132	10 Dec 2018	Low Tide Time	348
132	10 Dec 2018	Comments	none
132	17 Dec 2018	Depth (m)	11
132	17 Dec 2018	Arrive Time	1155
132	17 Dec 2018	Depart Time	1156
132	17 Dec 2018	Air Temp (C)	16
132	17 Dec 2018	Weather	Partly Cloudy
132	17 Dec 2018	Visibility (mi)	10
132	17 Dec 2018	Wind Speed (kts)	4
132	17 Dec 2018	Wind Dir	E
132	17 Dec 2018	Water Color	∟ Brownish-Green
132	17 Dec 2018 17 Dec 2018	Wave Ht Low (ft)	10
132	17 Dec 2018 17 Dec 2018	Wave Period (sec)	13
132	17 Dec 2018 17 Dec 2018	Sea State	Calm
132	17 Dec 2018 17 Dec 2018		4.76
		High Tide (ft)	
132	17 Dec 2018	High Tide Time	458
132	17 Dec 2018	Low Tide (ft) Low Tide Time	1.31
132	17 Dec 2018		1146
132	17 Dec 2018	Comments	none
100	07 D = 0040	Dauth (ma)	40
132	27 Dec 2018	Depth (m)	10
132	27 Dec 2018	Arrive Time	1234
132	27 Dec 2018	Depart Time	1237
132	27 Dec 2018	Air Temp (C)	15 Deaths Claude
132	27 Dec 2018	Weather	Partly Cloudy
132	27 Dec 2018	Visibility (mi)	9
132	27 Dec 2018	Wind Speed (kts)	16
132	27 Dec 2018	Wind Dir	S
132	27 Dec 2018	Water Color	Green
132	27 Dec 2018	Wave Ht Low (ft)	5
132	27 Dec 2018	Wave Period (sec)	9
132	27 Dec 2018	Sea State	Confused swell
132	27 Dec 2018	High Tide (ft)	4.12
132	27 Dec 2018	High Tide Time	103
132	27 Dec 2018	Low Tide (ft)	2.15
132	27 Dec 2018	Low Tide Time	623
132	27 Dec 2018	Comments	none
139	03 Dec 2018	Depth (m)	18
139	03 Dec 2018	Arrive Time	1152
139	03 Dec 2018	Depart Time	1155
139	03 Dec 2018	Air Temp (C)	16

Station	Date	Parameter	Value
139	03 Dec 2018	Weather	Clear
139	03 Dec 2018	Visibility (mi)	15
139	03 Dec 2018	Wind Speed (kts)	7
139	03 Dec 2018	Wind Dir	SW
139	03 Dec 2018	Water Color	Green
139	03 Dec 2018	Wave Ht Low (ft)	4
139	03 Dec 2018	Wave Period (sec)	13
139	03 Dec 2018	Sea State	Light chop
139	03 Dec 2018	High Tide (ft)	5.76
139	03 Dec 2018	High Tide Time	607
139	03 Dec 2018	Low Tide (ft)	0.18
139	03 Dec 2018	Low Tide Time	53
139	03 Dec 2018	Comments	none
139	10 Dec 2018	Depth (m)	20
139	10 Dec 2018	Arrive Time	1055
139	10 Dec 2018	Depart Time	1102
139	10 Dec 2018	Air Temp (C)	16
139	10 Dec 2018	Weather	Overcast
139	10 Dec 2018	Visibility (mi)	12
139	10 Dec 2018	Wind Speed (kts)	3
139	10 Dec 2018	Wind Dir	N
139	10 Dec 2018	Water Color	Blue
139	10 Dec 2018	Wave Ht Low (ft)	3
139	10 Dec 2018	Wave Period (sec)	13
139	10 Dec 2018	Sea State	Calm
139	10 Dec 2018	High Tide (ft)	5.35
139	10 Dec 2018	High Tide Time	951
139	10 Dec 2018	Low Tide (ft)	2.39
139	10 Dec 2018	Low Tide Time	348
139	10 Dec 2018	Comments	none
100	10 Dec 2010	Commenta	
139	17 Dec 2018	Depth (m)	18
139	17 Dec 2018	Arrive Time	1054
139	17 Dec 2018	Depart Time	1057
139	17 Dec 2018	Air Temp (C)	16
139	17 Dec 2018	Weather	Partly Cloudy
139	17 Dec 2018	Visibility (mi)	10
139	17 Dec 2018	Wind Speed (kts)	0
139	17 Dec 2018	Wind Dir	
139	17 Dec 2018	Water Color	Brownish-Green
139	17 Dec 2018	Wave Ht Low (ft)	8
139	17 Dec 2018	Wave Period (sec)	13
139	17 Dec 2018	Sea State	Calm
139	17 Dec 2018	High Tide (ft)	4.76
139	17 Dec 2018	High Tide Time	458
139	17 Dec 2018	Low Tide (ft)	1.31
139	17 Dec 2018	Low Tide Time	1146
139	17 Dec 2018	Comments	none
		e sinnionto	
139	27 Dec 2018	Depth (m)	20
139	27 Dec 2018	Arrive Time	1123
139	27 Dec 2018	Depart Time	1128
139	27 Dec 2018	Air Temp (C)	15
139	27 Dec 2018	Weather	Partly Cloudy
			,,

Station	Date	Parameter	Value
139	27 Dec 2018	Visibility (mi)	9
139	27 Dec 2018	Wind Speed (kts)	15
139	27 Dec 2018	Wind Dir	S
139	27 Dec 2018	Water Color	Greenish-Blue
139	27 Dec 2018	Wave Ht Low (ft)	5
139	27 Dec 2018	Wave Period (sec)	9
139	27 Dec 2018	Sea State	Confused swell
139	27 Dec 2018	High Tide (ft)	4.12
139	27 Dec 2018	High Tide Time	103
139	27 Dec 2018	Low Tide (ft)	2.15
139	27 Dec 2018	Low Tide Time	623
139	27 Dec 2018	Comments	none
100	21 000 2010	Commente	
140	03 Dec 2018	Depth (m)	10
140	03 Dec 2018	Arrive Time	1223
140	03 Dec 2018	Depart Time	1231
140 140	03 Dec 2018 03 Dec 2018	Air Temp (C)	1231
140	03 Dec 2018 03 Dec 2018	Weather	Clear
140 140	03 Dec 2018 03 Dec 2018	Visibility (mi)	15
		• 、 /	
140	03 Dec 2018	Wind Speed (kts)	6
140	03 Dec 2018	Wind Dir	S
140	03 Dec 2018	Water Color	Green
140	03 Dec 2018	Wave Ht Low (ft)	4
140	03 Dec 2018	Wave Period (sec)	13
140	03 Dec 2018	Sea State	Light chop
140	03 Dec 2018	High Tide (ft)	5.76
140	03 Dec 2018	High Tide Time	607
140	03 Dec 2018	Low Tide (ft)	0.18
140	03 Dec 2018	Low Tide Time	53
140	03 Dec 2018	Comments	none
140	10 Dec 2018	Depth (m)	11
140	10 Dec 2018	Arrive Time	1134
140	10 Dec 2018	Depart Time	1139
140	10 Dec 2018	Air Temp (C)	16
140	10 Dec 2018	Weather	Overcast
140	10 Dec 2018	Visibility (mi)	12
140	10 Dec 2018	Wind Speed (kts)	4
140	10 Dec 2018	Wind Dir	Ν
140	10 Dec 2018	Water Color	Green
140	10 Dec 2018	Wave Ht Low (ft)	3
140	10 Dec 2018	Wave Period (sec)	13
140	10 Dec 2018	Sea State	Calm
140	10 Dec 2018	High Tide (ft)	5.35
140	10 Dec 2018	High Tide Time	951
140	10 Dec 2018	Low Tide (ft)	2.39
140	10 Dec 2018	Low Tide Time	348
140	10 Dec 2018	Comments	none
	_		
140	17 Dec 2018	Depth (m)	17
140	17 Dec 2018	Arrive Time	1124
140	17 Dec 2018	Depart Time	1125
140	17 Dec 2018	Air Temp (C)	16
140 140	17 Dec 2018 17 Dec 2018	Weather	Partly Cloudy
140 140	17 Dec 2018 17 Dec 2018	Visibility (mi)	
140	17 Dec 2018		10

Station	Date	Parameter	Value
140	17 Dec 2018	Wind Speed (kts)	1
140	17 Dec 2018	Wind Dir	NW
140	17 Dec 2018	Water Color	Brownish-Green
140	17 Dec 2018	Wave Ht Low (ft)	10
140	17 Dec 2018	Wave Period (sec)	13
140	17 Dec 2018	Sea State	Calm
140	17 Dec 2018	High Tide (ft)	4.76
140	17 Dec 2018	High Tide Time	458
140	17 Dec 2018	Low Tide (ft)	1.31
140	17 Dec 2018	Low Tide Time	1146
140	17 Dec 2018	Comments	Unable to approach station due to unsafe conditions
140	20 Dec 2018	Depth (m)	11
140	20 Dec 2018	Arrive Time	826
140	20 Dec 2018	Depart Time	829
140	20 Dec 2018	Air Temp (C)	14
140	20 Dec 2018	Weather	Partly Cloudy
140	20 Dec 2018	Visibility (mi)	6
140	20 Dec 2018	Wind Speed (kts)	12
140	20 Dec 2018	Wind Dir	NW
140	20 Dec 2018	Water Color	Brownish-Green
140	20 Dec 2018	Wave Ht Low (ft)	8
140	20 Dec 2018	Wave Period (sec)	13
140	20 Dec 2018	Sea State	Calm
140	20 Dec 2018	High Tide (ft)	6.1
140	20 Dec 2018	High Tide Time	640
140	20 Dec 2018	Low Tide (ft)	1.39
140	20 Dec 2018	Low Tide Time	1225
140	20 Dec 2018	Comments	none
140	27 Dec 2018	Depth (m)	11
140	27 Dec 2018	Arrive Time	1200
140	27 Dec 2018	Depart Time	1203
140	27 Dec 2018	Air Temp (C)	15
140	27 Dec 2018	Weather	Partly Cloudy
140	27 Dec 2018	Visibility (mi)	9
140	27 Dec 2018	Wind Speed (kts)	12
140	27 Dec 2018	Wind Dir	SE
140	27 Dec 2018	Water Color	Green
140	27 Dec 2018	Wave Ht Low (ft)	5
140	27 Dec 2018	Wave Period (sec)	9
140	27 Dec 2018	Sea State	Confused swell
140	27 Dec 2018	High Tide (ft)	4.12
140	27 Dec 2018	High Tide Time	103
140	27 Dec 2018	Low Tide (ft)	2.15
140	27 Dec 2018	Low Tide Time	623
140	27 Dec 2018	Comments	none
170	21 200 2010	Commonto	
Table 3.10

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

Station	Date	Depth (m)	Temp ($^{\circ}$ C)	XMS (%)	DO (mg/L)	Sal (ppt)	pН	Dens (ơ-t)	Chlor (µg/L)
119	03 Dec 2018	1	16.90	53.93	7.9	33.68	8.1	24.5	1.24
119	03 Dec 2018	2	16.88	53.39	7.9	33.68	8.1	24.5	1.42
119	03 Dec 2018	3	16.88	52.84	7.8	33.68	8.1	24.5	1.83
119	03 Dec 2018	4	16.82	52.13	7.8	33.68	8.1	24.5	2.24
119	03 Dec 2018	5	16.46	47.82	7.5	33.65	8.1	24.6	1.99
119	03 Dec 2018	6	16.10	44.85	7.3	33.62	8.1	24.7	1.52
119	03 Dec 2018	7	15.96	59.44	7.0	33.61	8.1	24.7	1.29
119	03 Dec 2018	8	15.70	65.77	6.9	33.61	8.1	24.7	1.21
I19	03 Dec 2018	9	15.40	61.15	6.8	33.60	8.0	24.8	1.15
119	03 Dec 2018	10	15.30	48.10	6.8	33.59	8.0	24.8	1.11
119	10 Dec 2018	1	16.75	71.51	8.0	33.53	8.1	24.4	0.94
119	10 Dec 2018	2	16.74	71.43	8.1	33.53	8.1	24.4	1.06
119	10 Dec 2018	3	16.79	71.71	8.1	33.56	8.1	24.5	1.28
119	10 Dec 2018	4	16.77	73.65	8.0	33.56	8.1	24.5	1.54
119	10 Dec 2018	5	16.69	72.81	8.0	33.54	8.1	24.5	1.75
119	10 Dec 2018	6	16.69	71.68	8.0	33.54	8.1	24.5	1.86
119	10 Dec 2018	7	16.71	72.06	8.0	33.55	8.1	24.5	1.93
119	10 Dec 2018	8	16.71	72.82	8.0	33.55	8.1	24.5	1.89
119	10 Dec 2018	9	16.67	73.02	8.0	33.55	8.1	24.5	1.88
119	10 Dec 2018	10	16.67	72.08	8.0	33.55	8.1	24.5	1.85
110	10 200 2010	10	10.07	12.00	0.0	00.00		24.0	1.00
I19	20 Dec 2018	1	16.38	48.67	7.7	33.57	8.1	24.6	1.49
119	20 Dec 2018	2	16.38	49.32	7.8	33.58	8.1	24.6	1.54
I19	20 Dec 2018	3	16.38	49.33	7.8	33.58	8.1	24.6	1.70
119	20 Dec 2018	4	16.38	49.31	7.8	33.58	8.1	24.6	1.97
119	20 Dec 2018	5	16.38	50.08	7.8	33.58	8.1	24.6	2.17
119	20 Dec 2018	6	16.39	49.94	7.7	33.58	8.1	24.6	2.00
I19	20 Dec 2018	7	16.38	50.07	7.7	33.58	8.1	24.6	2.00
119	20 Dec 2018	8	16.38	48.97	7.7	33.58	8.1	24.6	1.92
119	20 Dec 2018	9	16.37	48.88	7.6	33.58	8.1	24.6	1.95
119	20 Dec 2018	10	16.33	50.43	7.5	33.58	8.1	24.6	1.78
119	27 Dec 2018	1	16.16	50.84	8.0	33.54	8.1	24.6	1.49
119	27 Dec 2018	2	16.16	51.59	8.0	33.54	8.1	24.6	1.70
I19	27 Dec 2018	3	16.14	51.10	8.0	33.54	8.1	24.6	2.26
I19	27 Dec 2018	4	16.14	51.53	8.0	33.54	8.1	24.6	2.56
I19	27 Dec 2018	5	16.13	51.16	8.0	33.54	8.1	24.6	2.73
I19	27 Dec 2018	6	16.13	51.82	8.0	33.54	8.1	24.6	2.81
119	27 Dec 2018	7	16.12	50.74	7.9	33.55	8.1	24.6	2.74
119	27 Dec 2018	8	16.11	50.72	7.9	33.55	8.1	24.6	2.62
119	27 Dec 2018	9	16.09	50.87	7.9	33.55	8.1	24.6	2.52
119	27 Dec 2018	10	16.08	51.95	7.9	33.55	8.1	24.6	2.41
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124	03 Dec 2018	1	16.95	58.02	7.7	33.67	8.1	24.5	0.92
124	03 Dec 2018	2	16.94	57.87	7.7	33.67	8.1	24.5	1.04
124	03 Dec 2018	3	16.89	57.70	7.6	33.67	8.1	24.5	1.31
124	03 Dec 2018	4	16.73	57.94	7.5	33.68	8.1	24.6	1.43
124	03 Dec 2018	5	16.68	58.15	7.5	33.68	8.1	24.6	1.50
124	03 Dec 2018	6	16.61	56.55	7.4	33.69	8.1	24.6	1.49
124	03 Dec 2018	7	16.35	54.97	7.3	33.68	8.1	24.7	1.42

	hlor (µg/L)	Dens (σ-t)	рН	Sal (ppt)	DO (mg/L)	XMS ($\%$)	Temp ($^{\circ}$ C)	Depth (m)	Date	Station
$ \begin{bmatrix} 124 \\ 03 \text{ Dec 2018} \\ 10 \\ 10 \\ Dec 2018 \\ 2 \\ 10 \\ Dec 2018 \\ 3 \\ 16.4 \\ 49 \\ 49 \\ 52 \\ 60 \\ 7.9 \\ 33.41 \\ 8.1 \\ 24.4 \\ 10 \\ 24.4 \\ 10 \\ Dec 2018 \\ 4 \\ 10 \\ Dec 2018 \\ 4 \\ 10 \\ Dec 2018 \\ 5 \\ 16.4 \\ 49.6 \\ 9 \\ 7.9 \\ 33.42 \\ 8.1 \\ 24.4 \\ 24.4 \\ 2124 \\ 10 \\ Dec 2018 \\ 5 \\ 16.4 \\ 49.6 \\ 9 \\ 8.0 \\ 33.42 \\ 8.1 \\ 24.4 \\ 24.4 \\ 2124 \\ 10 \\ Dec 2018 \\ 5 \\ 16.4 \\ 49.6 \\ 9 \\ 8.0 \\ 33.42 \\ 8.1 \\ 24.4 \\ 24.4 \\ 2124 \\ 10 \\ Dec 2018 \\ 5 \\ 16.4 \\ 49.6 \\ 7.9 \\ 33.42 \\ 8.1 \\ 24.4 \\ 24.4 \\ 2124 \\ 10 \\ Dec 2018 \\ 5 \\ 16.4 \\ 49.6 \\ 7.9 \\ 33.42 \\ 8.1 \\ 24.4 \\ 24.4 \\ 24.4 \\ 2124 \\ 10 \\ Dec 2018 \\ 10 \\ Dec 2018 \\ 10 \\ 16.5 \\ 57.5 \\ 7.5 \\ 7.6 \\ 33.50 \\ 8.1 \\ 24.5 \\ 11 \\ 10 \\ Dec 2018 \\ 11 \\ 16.5 \\ 57.5 \\ 7.5 \\ 7.6 \\ 33.50 \\ 8.1 \\ 24.5 \\ 11 \\ 124 \\ 10 \\ Dec 2018 \\ 11 \\ 16.5 \\ 57.5 \\ 7.5 \\ 7.5 \\ 7.5 \\ 33.58 \\ 8.1 \\ 24.5 \\ 11 \\ 124 \\ 20 \\ Dec 2018 \\ 11 \\ 16.5 \\ 16.5 \\ 48.7 \\ 7.9 \\ 33.58 \\ 8.1 \\ 24.5 \\ 124 \\ 20 \\ Dec 2018 \\ 11 \\ 16.5 \\ 16.5 \\ 48.7 \\ 7.9 \\ 33.58 \\ 8.1 \\ 24.5 \\ 124 \\ 20 \\ Dec 2018 \\ 11 \\ 16.5 \\ 16.5 \\ 48.7 \\ 7.9 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 4 \\ 16.5 \\ 46.7 \\ 7.8 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 7 \\ 16.5 \\ 46.7 \\ 7.8 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 7 \\ 16.5 \\ 46.7 \\ 7 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 7 \\ 16.5 \\ 46.7 \\ 7 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 7 \\ 16.5 \\ 46.7 \\ 7 \\ 33.58 \\ 8.1 \\ 24.5 \\ 2124 \\ 20 \\ Dec 2018 \\ 11 \\ 16.4 \\ 16.5 \\ 46.7 \\ 7 \\ 33.58 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.4 \\ 16.5 \\ 46.7 \\ 7 \\ 33.58 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.4 \\ 16.4 \\ 16.4 \\ 7.7 \\ 33.58 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.6 \\ 42.4 \\ 7.7 \\ 33.59 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.0 \\ 42.4 \\ 7.7 \\ 33.59 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.0 \\ 42.4 \\ 7.7 \\ 33.59 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.0 \\ 42.4 \\ 7.7 \\ 33.59 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.6 \\ 16.5 \\ 17. \\ 33.59 \\ 8.1 \\ 24.6 \\ 124 \\ 27 \\ Dec 2018 \\ 11 \\ 16.4 \\ 27 \\ Dec 2$	1.43	24.7	8.1	33.67	6.9	53.00	16.12	8	03 Dec 2018	124
12410 Dec 2018116.5550.007.933.418.124.4112410 Dec 2018216.5449.697.933.418.124.4112410 Dec 2018316.4949.528.033.428.124.4212410 Dec 2018516.4449.457.933.428.124.4212410 Dec 2018616.3951.557.833.448.124.5212410 Dec 2018716.3753.847.633.508.124.5112410 Dec 2018816.4456.707.633.498.124.5112410 Dec 2018916.4658.017.633.508.124.5112410 Dec 20181016.5057.527.633.518.124.5112410 Dec 20181116.5057.547.533.588.124.5112420 Dec 2018116.5049.257.933.588.124.5112420 Dec 2018116.5049.257.933.588.124.5212420 Dec 2018116.5149.127.933.588.124.5212420 Dec 2018516.5147.767.833.588.124.5212420 Dec 2018616.5147.77<	1.32	24.8	8.0	33.61	6.6	45.52	15.48	9	03 Dec 2018	124
	1.36	24.8	8.0	33.60	6.5	33.29	15.35	10	03 Dec 2018	124
	1.70		8.1						10 Dec 2018	124
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1.96		8.1			49.69			10 Dec 2018	124
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124 10 Dec 2018 7 16.37 53.84 7.8 33.46 8.1 24.5 1 124 10 Dec 2018 8 16.44 56.70 7.6 33.49 8.1 24.5 1 124 10 Dec 2018 9 16.46 58.01 7.6 33.50 8.1 24.5 1 124 10 Dec 2018 11 16.55 57.54 7.5 33.52 8.1 24.5 1 124 20 Dec 2018 1 16.49 48.83 7.9 33.58 8.1 24.5 1 124 20 Dec 2018 1 16.50 48.77 7.9 33.58 8.1 24.5 1 124 20 Dec 2018 5 16.51 49.25 7.9 33.58 8.1 24.5 2 124 20 Dec 2018 5 16.51 47.78 7.8 33.58 8.1 24.5 2 124 20 Dec 2018 7 16.51 47.93	2.85		8.1						10 Dec 2018	124
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124 20 Dec 2018 10 16.49 36.48 7.5 33.59 8.1 24.5 1 124 20 Dec 2018 11 16.46 13.64 7.2 33.59 8.0 24.6 1 124 27 Dec 2018 1 16.15 56.88 8.0 33.53 8.1 24.6 1 124 27 Dec 2018 2 16.15 59.06 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 2 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 <td>2.06</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2.06									
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I24 27 Dec 2018 1 16.15 56.88 8.0 33.53 8.1 24.6 1 I24 27 Dec 2018 2 16.15 59.06 7.9 33.58 8.1 24.6 1 I24 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 I24 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 I24 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 I24 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 2 I24 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 I24 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 2 I24 27 Dec 2018 8 16.11 53.50	1.82									
124 27 Dec 2018 2 16.15 59.06 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 2 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 2 124 27 Dec 2018 8 16.11 53.50 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 2 124 27 Dec 2018	1.74	24.6	8.0	33.59	7.2	13.64	16.46	11	20 Dec 2018	124
124 27 Dec 2018 2 16.15 59.06 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 2 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 2 124 27 Dec 2018 8 16.11 53.50 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 2 124 27 Dec 2018	1.27	24.6	8 1	33 53	8.0	56 88	16 15	1	27 Dec 2018	124
124 27 Dec 2018 3 16.15 61.24 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 2 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 2 124 27 Dec 2018 8 16.11 53.50 7.8 33.59 8.1 24.6 2 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 2 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 2 124 27 Dec 2018 <td>1.35</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.35									
124 27 Dec 2018 4 16.14 61.32 7.9 33.58 8.1 24.6 1 124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 22 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 8 16.11 53.50 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 22 125 03 Dec	1.57									
124 27 Dec 2018 5 16.12 58.40 7.9 33.58 8.1 24.6 22 124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 8 16.11 53.50 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.65 8.1 24.6 22 125 03 D	1.91									
124 27 Dec 2018 6 16.12 56.95 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 8 16.11 53.50 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.65 8.1 24.6 22 125 03 Dec 2018 1 16.92 58.64 7.7 33.65 8.1 24.5 10 125 03 D	2.30									
124 27 Dec 2018 7 16.10 55.91 7.8 33.59 8.1 24.6 22 124 27 Dec 2018 8 16.11 53.50 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.92 58.64 7.7 33.65 8.1 24.6 22 125 03 Dec 2018 1 16.91 58.51 7.7 33.65 8.1 24.5 00 125 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 1 125 03 D	2.48									
124 27 Dec 2018 8 16.11 53.50 7.8 33.58 8.1 24.6 22 124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 22 125 03 Dec 2018 1 16.92 58.64 7.7 33.65 8.1 24.5 0 125 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 1 125 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1	2.40									
124 27 Dec 2018 9 16.09 46.28 7.7 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 22 125 03 Dec 2018 1 16.92 58.64 7.7 33.65 8.1 24.5 00 125 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 10 125 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1	2.46									
124 27 Dec 2018 10 16.07 41.44 7.6 33.59 8.1 24.6 22 124 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 22 125 03 Dec 2018 1 16.92 58.64 7.7 33.65 8.1 24.5 00 125 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 00 125 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 10 125 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1	2.37									
I24 27 Dec 2018 11 16.08 42.44 7.7 33.59 8.1 24.6 2 I25 03 Dec 2018 1 16.92 58.64 7.7 33.65 8.1 24.5 00 I25 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 10 I25 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 11	2.25									
I25 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 1 I25 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1	2.17									
I25 03 Dec 2018 2 16.91 58.51 7.7 33.65 8.1 24.5 1 I25 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1										
I25 03 Dec 2018 3 16.89 58.43 7.6 33.65 8.1 24.5 1	0.95									
	1.02									
I25 03 Dec 2018 4 16.62 59.56 7.5 33.66 8.1 24.6 1	1.24									
	1.38									
	1.45									
	1.51									
	1.39									
	1.25									
I25 03 Dec 2018 9 15.50 34.88 6.7 33.61 8.0 24.8 1	1.31	24.8	8.0	33.61	6.7	34.88	15.50	9	03 Dec 2018	125
I25 10 Dec 2018 1 16.81 73.56 7.9 33.55 8.1 24.4 1	1.05	24 4	8.1	33.55	7.9	73 56	16 81	1	10 Dec 2018	125
	1.18									
	1.44									
	1.69									
	1.84	24.5	8.1	33.55	7.8	70.88	16.67	5	10 Dec 2018	125

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
125	10 Dec 2018	6	16.66	71.20	7.8	33.55	8.1	24.5	1.84
125	10 Dec 2018	7	16.66	72.44	7.8	33.55	8.1	24.5	1.67
125	10 Dec 2018	8	16.66	72.74	7.8	33.55	8.1	24.5	1.61
125	10 Dec 2018	9	16.66	72.76	7.8	33.55	8.1	24.5	1.46
125	20 Dec 2018	1	16.45	31.92	7.9	33.58	8.0	24.5	2.26
125	20 Dec 2018	2	16.46	32.60	7.9	33.58	8.0	24.5	2.46
125	20 Dec 2018	3	16.46	30.82	7.9	33.57	8.0	24.5	2.44
125	20 Dec 2018	4	16.46	27.89	7.9	33.57	8.0	24.5	2.46
125	20 Dec 2018	5	16.46	27.47	7.9	33.57	8.0	24.5	2.42
125	20 Dec 2018	6	16.46	25.52	7.9	33.57	8.0	24.5	2.35
125	20 Dec 2018	7	16.46	27.42	7.9	33.57	8.0	24.5	2.37
125	20 Dec 2018	8	16.46	24.97	7.8	33.57	8.0	24.5	2.37
125	20 Dec 2018	9	16.47	9.05	7.7	33.57	8.0	24.5	2.42
105	07 5 0040		10.10	50 57	7.0	00.50		04.0	1.00
125	27 Dec 2018	1	16.13	59.57	7.8	33.58	8.1	24.6	1.30
125	27 Dec 2018	2	16.12	59.41	7.8	33.59	8.1	24.6	1.41
125	27 Dec 2018	3	16.12	59.36	7.8	33.59	8.1	24.6	1.68
125	27 Dec 2018	4	16.11	59.37	7.8	33.59	8.1	24.6	2.11
125	27 Dec 2018	5	16.11	60.01	7.8	33.58	8.1	24.6	2.30
125	27 Dec 2018	6	16.10	59.98	7.8	33.59	8.1	24.6	2.31
125	27 Dec 2018	7	16.10	60.28	7.8	33.58	8.1	24.6	2.36
125	27 Dec 2018	8	16.10	59.14	7.8	33.58	8.1	24.6	2.32
125	27 Dec 2018	9	16.10	59.29	7.8	33.58	8.1	24.6	2.34
126	03 Dec 2018	1	16.74	60.62	7.7	33.72	8.1	24.6	1.03
126	03 Dec 2018	2	16.75	60.47	7.7	33.72	8.1	24.6	1.12
126	03 Dec 2018	3	16.69	60.35	7.7	33.72	8.1	24.6	1.42
126	03 Dec 2018	4	16.58	60.04	7.6	33.71	8.1	24.6	1.86
126	03 Dec 2018	5	16.47	60.70	7.6	33.71	8.1	24.6	1.77
126	03 Dec 2018	6	16.40	61.78	7.5	33.70	8.1	24.7	1.57
126	03 Dec 2018	7	16.09	63.99	7.2	33.68	8.1	24.7	1.42
126	03 Dec 2018	8	15.22	52.95	6.7	33.61	8.1	24.9	1.31
126	03 Dec 2018	9	15.13	39.61	6.8	33.59	8.0	24.9	1.31
126	10 Dec 2018	1	16.88	75.91	7.9	33.56	8.1	24.4	0.99
126	10 Dec 2018	2	16.88	74.68	7.9	33.56	8.1	24.4	1.04
126	10 Dec 2018	3	16.78	75.52	7.9	33.56	8.1	24.5	1.21
126	10 Dec 2018	4	16.72	73.73	7.9	33.55	8.1	24.5	1.50
126	10 Dec 2018	5	16.72	73.71	7.9	33.56	8.1	24.5	1.70
126	10 Dec 2018	6	16.72	74.29	7.8	33.56	8.1	24.5	1.65
126	10 Dec 2018	7	16.72	74.11	7.8	33.56	8.1	24.5	1.61
126	10 Dec 2018	8	16.66	66.00	7.6	33.55	8.1	24.5	1.54
126	10 Dec 2018	9	16.64	58.98	7.5	33.54	8.1	24.5	1.43
126	20 Dec 2018	1	16.52	50.52	7.9	33.56	8.1	24.5	1.70
126	20 Dec 2018 20 Dec 2018	1	16.52	49.66	7.9	33.56	8.1	24.5 24.5	1.70
126	20 Dec 2018 20 Dec 2018	3	16.52	49.66 49.25	7.9	33.56	8.1	24.5 24.5	2.27
126	20 Dec 2018 20 Dec 2018	4	16.51	49.25 49.54	7.9	33.56	8.1	24.5 24.5	2.27 2.66
126	20 Dec 2018 20 Dec 2018		16.51	49.54 48.80	7.9	33.56	8.1	24.5 24.5	2.66 2.96
		5							
126	20 Dec 2018	6 7	16.51 16.51	47.70	7.9	33.56	8.1 8.1	24.5 24.5	2.97 2.78
126 126	20 Dec 2018 20 Dec 2018	8	16.51 16.51	45.49 43.97	7.8 7.8	33.56 33.56	8.1 8.1	24.5 24.5	2.78
126	20 Dec 2018 20 Dec 2018	9	16.51	43.97 40.65	7.8	33.56	8.1	24.5 24.5	2.61
120	20 000 2010	3	10.01	-0.00	1.0	33.30	0.1	24.5	2.40

Station	Date	Depth (m)	Temp ($^{\circ}$ C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
126	27 Dec 2018	1	16.04	51.17	7.9	33.60	8.1	24.7	1.61
126	27 Dec 2018	2	16.03	49.77	7.8	33.52	8.1	24.6	1.79
126	27 Dec 2018	3	16.04	53.58	7.8	33.61	8.1	24.7	2.12
126	27 Dec 2018	4	16.04	53.32	7.9	33.60	8.1	24.7	2.41
126	27 Dec 2018	5	16.03	51.67	7.8	33.61	8.1	24.7	2.59
126	27 Dec 2018	6	16.03	51.83	7.9	33.61	8.1	24.7	2.74
126	27 Dec 2018	7	16.02	51.90	7.8	33.61	8.1	24.7	2.74
126	27 Dec 2018	8	16.02	52.31	7.8	33.61	8.1	24.7	2.80
126	27 Dec 2018	9	16.01	51.52	7.8	33.61	8.1	24.7	2.72
132	03 Dec 2018	1	16.76	60.97	7.7	33.71	8.1	24.6	0.75
132	03 Dec 2018	2	16.74	60.49	7.6	33.71	8.1	24.6	0.83
132	03 Dec 2018	3	16.71	59.62	7.6	33.71	8.1	24.6	1.01
132	03 Dec 2018	4	16.47	55.63	7.4	33.71	8.1	24.6	1.17
132	03 Dec 2018	5	16.00	51.62	7.2	33.66	8.1	24.7	1.31
132	03 Dec 2018	6	15.63	63.69	7.1	33.63	8.1	24.8	1.32
132	03 Dec 2018	7	15.51	66.20	7.1	33.62	8.1	24.8	1.31
132	03 Dec 2018	8	15.49	57.87	7.0	33.63	8.1	24.8	1.28
132	03 Dec 2018	9	15.34	55.32	6.9	33.62	8.1	24.8	1.28
132	03 Dec 2018	10	15.04	50.07	6.9	33.61	8.1	24.9	1.26
102	00 200 2010		10.04	00.07	0.0	00.01		24.0	1.20
132	10 Dec 2018	1	16.56	61.44	8.2	33.47	8.1	24.4	1.88
132	10 Dec 2018	2	16.51	61.39	8.2	33.47	8.1	24.5	2.52
132	10 Dec 2018	3	16.35	58.95	8.3	33.46	8.1	24.5	5.03
132	10 Dec 2018	4	16.31	59.31	8.1	33.46	8.1	24.5	4.28
132	10 Dec 2018	5	16.30	60.64	8.0	33.46	8.1	24.5	3.68
132	10 Dec 2018	6	16.29	60.71	8.0	33.40	8.1	24.5	3.58
132		7	16.29		8.0			24.5	3.76
	10 Dec 2018	8		60.34		33.47	8.1		
132	10 Dec 2018		16.27	59.69	8.0	33.47	8.1	24.5	3.42
132	10 Dec 2018	9	16.25	59.27	8.1	33.47	8.1	24.5	2.99
132	10 Dec 2018	10	16.23	59.63	8.1	33.48	8.1	24.5	2.35
132	17 Dec 2018	1	16.80	60.36	8.1	33.55	8.1	24.4	1.13
132	17 Dec 2018	2	16.78	59.44	8.1	33.55	8.1	24.5	1.30
132	17 Dec 2018	3	16.73	57.49	8.2	33.55	8.1	24.5	1.60
132	17 Dec 2018	4	16.73	57.16	8.1	33.55	8.1	24.5	2.01
132	17 Dec 2018	5	16.49	53.28	8.2	33.55	8.1	24.5	3.10
132	17 Dec 2018 17 Dec 2018	6	16.44	47.05	8.1	33.55	8.1	24.5	3.53
		7			8.1				3.42
132 132	17 Dec 2018 17 Dec 2018	8	16.44 16.43	47.78 46.38	8.2	33.55 33.55	8.1 8.1	24.5 24.5	3.42
		9			8.2				3.32 2.48
132	17 Dec 2018		16.41	42.68		33.55	8.1 8.1	24.5	
132	17 Dec 2018	10	16.39	41.63	8.2	33.55	8.1	24.5	1.97
132	27 Dec 2018	1	16.01	58.91	8.0	33.62	8.1	24.7	1.62
132	27 Dec 2018 27 Dec 2018	2	16.01	58.86	8.0	33.62	8.1	24.7	1.62
132	27 Dec 2018 27 Dec 2018	3	16.01	59.19	8.0	33.62	8.1	24.7	1.75
132	27 Dec 2018 27 Dec 2018	4	16.01	59.05	7.9	33.62	8.1	24.7	1.75
132	27 Dec 2018 27 Dec 2018		16.00	59.05 59.41	8.0	33.62	8.1	24.7	2.27
		5							
132	27 Dec 2018	6	16.00	59.35	8.0	33.62	8.1	24.7	2.55
132	27 Dec 2018	7	15.97	59.71	8.0	33.62	8.1	24.7	2.95
132	27 Dec 2018	8	15.97	60.24	8.0	33.62	8.1	24.7	3.23
132	27 Dec 2018	9	15.96	59.65	7.9	33.62	8.1	24.7	3.27
132	27 Dec 2018	10	15.96	59.36	8.0	33.62	8.1	24.7	3.24
139	03 Dec 2018	1	16.62	64.88	7.6	33.70	8.1	24.6	0.72
199	03 Dec 2010		10.02	04.00	1.0	55.70	0.1	24.0	0.72

Station	Date	Depth (m)	Temp ($^{\circ}$ C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
139	03 Dec 2018	2	16.62	64.81	7.6	33.70	8.1	24.6	0.74
139	03 Dec 2018	3	16.35	64.95	7.3	33.68	8.1	24.7	0.83
139	03 Dec 2018	4	15.41	72.66	7.2	33.62	8.1	24.8	0.77
139	03 Dec 2018	5	15.16	80.14	7.1	33.59	8.1	24.9	0.71
139	03 Dec 2018	6	14.92	81.90	7.0	33.58	8.1	24.9	0.68
139	03 Dec 2018	7	14.74	82.46	7.0	33.57	8.0	24.9	0.68
139	03 Dec 2018	8	14.54	82.93	6.9	33.57	8.0	25.0	0.67
139	03 Dec 2018	9	14.44	82.09	6.8	33.56	8.0	25.0	0.68
139	03 Dec 2018	10	14.41	80.73	6.8	33.56	8.0	25.0	0.68
139	03 Dec 2018	11	14.40	80.28	6.7	33.57	8.0	25.0	0.72
139	03 Dec 2018	12	14.39	79.49	6.7	33.57	8.0	25.0	0.77
139	03 Dec 2018	13	14.38	79.01	6.7	33.57	8.0	25.0	0.79
139	03 Dec 2018	14	14.32	78.35	6.6	33.57	8.0	25.0	0.82
139	03 Dec 2018	15	14.30	77.66	6.6	33.57	8.0	25.0	0.82
139	03 Dec 2018	16	14.30	77.62	6.7	33.57	8.0	25.0	0.81
139	03 Dec 2018	17	14.31	77.41	6.6	33.57	8.0	25.0	0.81
139	03 Dec 2018	18	14.32	76.17	6.6	33.57	8.0	25.0	0.82
		_							
139	10 Dec 2018	1	17.13	86.12	7.8	33.64	8.1	24.4	0.57
139	10 Dec 2018	2	17.13	86.21	7.8	33.64	8.1	24.4	0.59
139	10 Dec 2018	3	17.11	86.20	7.8	33.64	8.1	24.4	0.64
139	10 Dec 2018	4	17.10	86.17	7.8	33.64	8.1	24.4	0.73
139	10 Dec 2018	5	17.10	86.12	7.8	33.64	8.1	24.4	0.78
139	10 Dec 2018	6	17.10	86.17	7.8	33.64	8.1	24.4	0.81
139	10 Dec 2018	7	17.10	86.13	7.8	33.64	8.1	24.4	0.86
139	10 Dec 2018	8	17.09	86.12	7.8	33.64	8.1	24.4	0.89
139	10 Dec 2018	9	17.09	86.09	7.8	33.64	8.1	24.4	0.92
139	10 Dec 2018	10	17.09	86.05	7.8	33.64	8.1	24.4	0.96
139	10 Dec 2018	11	17.09	86.10	7.8	33.64	8.1	24.4	0.96
139	10 Dec 2018	12	17.09	86.13	7.8	33.64	8.1	24.4	0.99
139	10 Dec 2018	13	17.08	85.97	7.8	33.64	8.1	24.4	1.07
139	10 Dec 2018	14	17.03	82.66	7.7	33.63	8.1	24.5	1.24
139	10 Dec 2018	15	16.93	76.18	7.6	33.62	8.1	24.5	1.36
139	10 Dec 2018	16	16.93	74.77	7.6	33.62	8.1	24.5	1.37
139	10 Dec 2018	17	16.92	73.88	7.6	33.62	8.1	24.5	1.29
139	10 Dec 2018	18	16.92	72.44	7.6	33.62	8.1	24.5	1.23
100	10 Dec 2010		10.92	12.44	7.0	00.02	0.1	24.5	1.20
139	17 Dec 2018	1	16.76	78.45	7.8	33.58	8.1	24.5	0.62
139	17 Dec 2018	2	16.76	78.23	7.8	33.59	8.1	24.5	0.62
139	17 Dec 2018	3	16.73	77.99	7.8	33.59	8.1	24.5	0.65
139	17 Dec 2018 17 Dec 2018	4	16.65	77.75	7.8	33.59	8.1	24.5	0.69
139	17 Dec 2018 17 Dec 2018	5	16.62	77.15	7.8	33.59	8.1	24.5	0.09
139	17 Dec 2018 17 Dec 2018	6	16.60	76.83	7.8	33.59	8.1	24.5 24.5	1.20
139	17 Dec 2018 17 Dec 2018	7	16.59	76.23	7.8	33.59	8.1	24.5 24.5	1.20
139	17 Dec 2018 17 Dec 2018	8	16.59	76.23	7.8	33.59	8.1	24.5 24.5	1.60
139	17 Dec 2018 17 Dec 2018	9	16.58	76.50	7.8	33.59	8.1	24.5 24.5	1.60
			16.58	76.62	7.8				
139	17 Dec 2018	10				33.59	8.1	24.5	1.81
139	17 Dec 2018	11	16.57	76.51	7.8	33.59	8.1	24.5	1.70
139	17 Dec 2018	12	16.57	76.94	7.8	33.59	8.1	24.5	1.76
139	17 Dec 2018	13	16.57	76.72	7.8	33.59	8.1	24.5	1.70
139	17 Dec 2018	14	16.57	76.60	7.8	33.59	8.1	24.5	1.66
139	17 Dec 2018	15	16.57	76.89	7.8	33.59	8.1	24.5	1.70
139	17 Dec 2018	16	16.57	76.86	7.7	33.59	8.1	24.5	1.56
139	17 Dec 2018	17	16.57	76.70	7.6	33.59	8.1	24.5	1.61
139	17 Dec 2018	18	16.53	68.17	7.4	33.60	8.1	24.6	1.37

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рΗ	Dens (σ-t)	Chlor (µg/L)
120	27 Dec 2040		10 11	70.07	7.0	22.62	0.4	04.7	0.61
139	27 Dec 2018	1	16.11	73.97	7.8	33.63	8.1	24.7	0.61
139	27 Dec 2018		16.11	81.39	7.8	33.63	8.1	24.7	0.69
139	27 Dec 2018	3	16.11	82.31	7.8	33.63	8.1	24.7	0.73
139	27 Dec 2018	4	16.10	82.38	7.8	33.63	8.1	24.7	0.84
139	27 Dec 2018	5	16.10	82.42	7.8	33.63	8.1	24.7	0.92
139	27 Dec 2018	6	16.09	82.30	7.8	33.63	8.1	24.7	0.98
139	27 Dec 2018	7	16.07	81.77	7.8	33.63	8.1	24.7	1.13
139	27 Dec 2018	8	16.06	81.64	7.8	33.63	8.1	24.7	1.27
139	27 Dec 2018	9	16.04	81.55	7.8	33.63	8.1	24.7	1.40
139	27 Dec 2018	10	16.02	80.98	7.8	33.63	8.1	24.7	1.48
139	27 Dec 2018	11	16.00	80.19	7.8	33.63	8.1	24.7	1.58
139	27 Dec 2018	12	15.94	78.26	7.7	33.63	8.1	24.7	1.55
139	27 Dec 2018	13	15.88	76.39	7.6	33.62	8.1	24.7	1.46
139	27 Dec 2018	14	15.87	75.46	7.5	33.62	8.1	24.7	1.43
139	27 Dec 2018	15	15.87	75.13	7.5	33.62	8.1	24.7	1.35
139	27 Dec 2018	16	15.86	74.04	7.5	33.62	8.1	24.7	1.28
139	27 Dec 2018	17	15.85	73.81	7.6	33.62	8.1	24.7	1.26
139	27 Dec 2018	18	15.82	73.73	7.5	33.61	8.1	24.7	1.27
140	03 Dec 2018	1	17.00	52.21	7.8	33.45	8.1	24.3	1.01
140	03 Dec 2018	2	16.98	52.06	7.8	33.52	8.1	24.4	1.26
140	03 Dec 2018	3	16.95	50.85	7.7	33.68	8.1	24.5	1.77
140	03 Dec 2018	4	16.90	51.06	7.6	33.70	8.1	24.5	1.86
140	03 Dec 2018	5	16.69	49.79	7.3	33.68	8.1	24.6	1.73
140	03 Dec 2018	6	16.24	46.36	7.1	33.65	8.1	24.7	1.65
140	03 Dec 2018	7	16.12	51.22	7.0	33.63	8.1	24.7	1.57
140	03 Dec 2018	8	15.64	49.00	6.8	33.61	8.1	24.8	1.43
140	03 Dec 2018	9	15.33	43.12	6.7	33.59	8.1	24.8	1.34
140	03 Dec 2018	10	15.16	39.68	6.7	33.59	8.0	24.8	1.25
140	10 Dec 2018	1	16.62	57.59	8.0	33.50	8.1	24.5	1.19
140	10 Dec 2018	2	16.60	56.88	8.0	33.50	8.1	24.5	1.41
I40	10 Dec 2018	3	16.58	56.92	7.9	33.53	8.1	24.5	1.69
I40	10 Dec 2018	4	16.59	59.18	7.9	33.54	8.1	24.5	1.70
I40	10 Dec 2018	5	16.58	62.45	7.9	33.55	8.1	24.5	1.67
I40	10 Dec 2018	6	16.57	61.44	7.9	33.55	8.1	24.5	1.72
I40	10 Dec 2018	7	16.55	57.87	7.8	33.55	8.1	24.5	1.71
140	10 Dec 2018	8	16.52	48.50	7.7	33.55	8.1	24.5	1.69
140	10 Dec 2018	9	16.52	46.51	7.7	33.55	8.1	24.5	1.70
140	10 Dec 2018	10	16.49	43.77	7.7	33.54	8.1	24.5	1.72
140	20 Dec 2018	1	16.50	44.15	7.9	33.59	8.1	24.6	1.96
140	20 Dec 2010	2	16.50	43.64	7.9	33.59	8.1	24.6	2.16
140	20 Dec 2010 20 Dec 2018	3	16.50	44.72	7.8	33.59	8.1	24.6	2.55
140	20 Dec 2018 20 Dec 2018	4	16.50	44.12	7.9	33.59	8.1	24.6	2.64
140	20 Dec 2018 20 Dec 2018	5	16.50	43.46	7.9	33.59	8.1	24.6	2.66
140	20 Dec 2018 20 Dec 2018	6	16.50	41.43	7.8	33.59	8.1	24.6	2.51
140	20 Dec 2018 20 Dec 2018	7	16.50	41.43	7.8	33.59	8.1	24.6	2.31
I40	20 Dec 2018 20 Dec 2018	8	16.50	39.31	7.8	33.59	8.1	24.6	2.39 2.40
I40	20 Dec 2018 20 Dec 2018	9	16.51	34.93	7.0	33.59	8.1	24.6	2.40
I40	20 Dec 2018 20 Dec 2018	10	16.51	34.93 33.27	7.6	33.60	8.1	24.6	2.29
140	20 000 2010		10.01	55.21	1.0	55.00	0.1	24.0	2.10
140	27 Dec 2018	1	16.09	52.20	8.0	33.53	8.1	24.6	1.55
I40	27 Dec 2018	2	16.09	52.66	8.0	33.53	8.1	24.6	1.66

Station	Date	Depth (m)	Temp ($^{\circ}$ C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рΗ	Dens (σ-t)	Chlor (µg/L)
140	27 Dec 2018	3	16.09	52.49	8.0	33.53	8.1	24.6	1.92
I40	27 Dec 2018	4	16.09	53.10	8.0	33.53	8.1	24.6	2.17
140	27 Dec 2018	5	16.09	52.92	8.0	33.53	8.1	24.6	2.43
140	27 Dec 2018	6	16.08	52.45	8.0	33.53	8.1	24.6	2.62
I40	27 Dec 2018	7	16.07	52.82	8.0	33.53	8.1	24.6	2.69
I40	27 Dec 2018	8	16.04	51.09	8.0	33.54	8.1	24.6	2.75
I40	27 Dec 2018	9	16.00	46.96	8.0	33.55	8.1	24.6	2.65
I40	27 Dec 2018	10	15.92	34.54	8.0	33.57	8.1	24.7	2.43

NA = not available

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APPENDIX A

Quality Assurance

Table A.1

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

Station	Date	Depth	Analyst	Procedure	Total	Fecal	Entero
119	03 Dec 2018	6	AE	LAB DUPLICATE	11000	1000	140e
119	10 Dec 2018	6	AE	LAB DUPLICATE	6000	1000e	80e
119	20 Dec 2018	6	JLT	LAB DUPLICATE	2200e	220e	94
119	27 Dec 2018	6	AE	LAB DUPLICATE	15000	2000e	380e
140	03 Dec 2018	6	LMA	LAB DUPLICATE	2400e	360e	16e
140	10 Dec 2018	6	AE	LAB DUPLICATE	5600	800e	120e
140	20 Dec 2018	6	JLT	LAB DUPLICATE	80e	22e	6e
140	27 Dec 2018	6	AE	LAB DUPLICATE	>16000	1200	ns
S12	04 Dec 2018		AR	FIELD DUPLICATE	<20	<2	2e
S12	04 Dec 2018		AR	LAB DUPLICATE	<20	<2	2e
S12	11 Dec 2018		AE	FIELD DUPLICATE	800e	44	120e
S12	11 Dec 2018		AE	LAB DUPLICATE	140e	18e	80e
S12	18 Dec 2018		JLT	FIELD DUPLICATE	180e	<2	28e
S12	18 Dec 2018		AR	LAB DUPLICATE	80e	6e	30e
S12	26 Dec 2018		AE	FIELD DUPLICATE	<20	<2	4e
S12	26 Dec 2018		AE	LAB DUPLICATE	40e	<2	2e

ns = not sampled

ND = no data

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