

SOUTH BAY OCEAN OUTFALL MONTHLY RECEIVING WATERS MONITORING REPORT

SOUTH BAY WATER RECLAMATION PLANT

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

May 2019

REVISED MARCH 2021

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





April 1, 2021

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 revised May 2019 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 revised report is being submitted to address data integrity issues identified to the Board in the letter dated October 22, 2020, subject: "San Diego NPDES Shoreline Sampling Program Report."

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 by Order Nos. R9-2014-0094, R9-2017-0024, R9-2019-0012, NPDES Permit No. CA0108928).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

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

PV/rk

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 2019 Quality Assurance Report, which will be completed in March 2020.

SUMMARY OF RESULTS

Shoreline Water Quality Sampling

- 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.
- Due to a Mexican holiday on May 1, sampling at the three shore stations south of the USA/Mexico border was conducted on April 30 and included in this report.
- Additional shore station sampling occurred on May 1, 7, 14, 21 and 28. Subsequent to initial reporting, the sample collected at station S5 on May 21 was determined to be problematic. The results from this sample has been removed from this report.
- During May, seven of the eight shore stations located north of the border were out of compliance with various California Ocean Plan (Ocean Plan) water contact standards on one or more days as follows (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 S5 and S12.
- The 30-day geometric mean standard for fecal coliform densities was exceeded at station S5.
- The 30-day geometric mean standard for *Enterococcus* bacteria was exceeded at stations S5 and S10.
- The SSM standard for total coliform densities was exceeded at stations S4, S5, S10, and S12.
- The SSM standard for fecal coliform densities was exceeded at stations S4, S5, S6, S8, S10, and S12.
- The SSM standard for *Enterococcus* bacteria was exceeded at stations S4, S5, S9, S10, and S12.
- 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 S12.
- 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 S3 on one or more days during the month.
- 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 May included a sewage-like odor at station S5 on May 16, 25, 27, 28, 30, 31.

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. May 6, 13, 23, 29).
- During May, one of the seven stations was out of compliance with various Ocean Plan water contact standards on one or more days as follows:
 - The SSM standard that states total coliform densities shall not exceed 1000 CFU/100 mL when the fecal:total ratio exceeds 0.1 was exceeded at station I19.
- Water column temperatures ranged from 11.06 to 18.22°C. The difference between surface and bottom waters ranged from 0.79 to 5.20°C, indicating the water column was stratified at some of these sites during the month.
- Chlorophyll *a* concentrations ranged from 0.57 to 25.31 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 stations.

Offshore Water Quality Sampling

- Quarterly offshore water quality sampling was conducted over three days during the month (i.e., May 14, 15, 16).
- During May, all offshore stations located within State jurisdictional waters (i.e., I12, I14, I16, I18, I22, I23, I33, I36–I38) were in compliance with the relevant Ocean Plan single sample maximum standard for *Enterococcus*.
- Although the Ocean Plan standards do not apply to stations outside State jurisdictional waters, none of the remaining offshore stations had elevated bacterial densities.
- Water column temperatures ranged from 10.94 to 18.50°C at the offshore sites. The difference between surface and bottom waters ranged from 3.65 to 7.28°C, indicating that the water column was stratified at some of the offshore stations during the month.
- Chlorophyll *a* concentrations ranged from 0.27 to 8.33 μ g/L at the offshore sites, suggesting the presence of phytoplankton blooms during the month.
- CDOM data are available upon request.
- Nothing of sewage origin was observed at any of the offshore stations.

This page intentionally left blank



TABLES AND FIGURES



Figure 1.1 Station Map

This page intentionally left blank



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	S 8	S9	S10	S11	S12
01 May 2019	77	328	27	6	16	47	36	28
02 May 2019	42	287	22	8	27	23	42	46
03 May 2019	42	287	74	8	27	23	42	117
04 May 2019	36	287	74	8	27	23	42	117
05 May 2019	36	287	74	8	27	23	42	117
06 May 2019	36	287	74	8	27	23	42	117
07 May 2019	30	210	99	6	25	20	74	147
08 May 2019	30	210	99	6	25	20	74	147
09 May 2019	15	241	137	5	48	8	103	218
10 May 2019	15	241	137	5	48	8	103	218
11 May 2019	15	241	137	5	48	8	103	218
12 May 2019	15	241	137	5	48	8	103	218
13 May 2019	15	241	137	5	48	8	103	218
14 May 2019	16	352	141	21	64	9	137	432
15 May 2019	16	352	141	21	64	9	137	432
16 May 2019	15	365	329	16	51	14	300	1203
17 May 2019	15	365	329	16	51	14	300	1203
18 May 2019	15	365	329	16	51	14	300	1203
19 May 2019	15	365	329	16	51	14	300	1203
20 May 2019	15	365	329	16	51	14	300	1203
21 May 2019	61	365	328	27	67	57	367	670
22 May 2019	61	365	328	27	67	57	367	670
23 May 2019	110	504	909	52	161	259	537	1310
24 May 2019	110	504	909	52	161	259	537	1310
25 May 2019	110	896	909	52	161	318	537	1310
26 May 2019	110	896	909	52	161	318	537	1310
27 May 2019	110	1353	909	52	161	318	537	1310
28 May 2019	154	1843	481	43	168	384	278	721
29 May 2019	154	1843	481	43	168	384	278	721
30 May 2019	154	1997	481	43	168	384	278	721
31 May 2019	175	2067	329	92	112	499	268	473

* 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	S 8	S9	S10	S11	S12
01 May 2019	13	28	9	4	12	17	6	12
02 May 2019	6	20	8	5	18	8	5	19
03 May 2019	6	20	20	5	18	8	5	37
04 May 2019	5	20	20	5	18	9	5	37
05 May 2019	5	20	13	5	18	9	5	25
06 May 2019	5	20	13	5	18	9	5	25
07 May 2019	6	20	17	4	15	9	8	22
08 May 2019	6	20	17	4	15	9	8	22
09 May 2019	3	30	24	5	25	4	11	30
10 May 2019	3	30	24	5	25	4	11	30
11 May 2019	3	30	24	5	25	4	11	30
12 May 2019	3	30	24	5	25	4	11	30
13 May 2019	3	30	24	5	25	4	11	30
14 May 2019	3	43	26	14	23	5	15	47
15 May 2019	3	43	26	14	23	5	15	47
16 May 2019	3	43	40	10	17	6	25	87
17 May 2019	3	43	40	10	17	6	25	87
18 May 2019	3	43	40	10	17	6	25	87
19 May 2019	3	43	40	10	17	6	25	87
20 May 2019	3	43	40	10	17	6	25	87
21 May 2019	16	43	46	8	13	27	30	54
22 May 2019	16	43	46	8	13	27	30	54
23 May 2019	24	109	78	10	20	94	44	71
24 May 2019	24	109	78	10	20	94	44	71
25 May 2019	24	239	78	10	20	96	44	71
26 May 2019	24	239	78	10	20	96	44	71
27 May 2019	24	418	78	10	20	96	44	71
28 May 2019	29	614	51	11	13	99	24	46
29 May 2019	29	614	51	11	13	99	24	46
30 May 2019	29	585	51	11	13	99	24	46
31 May 2019	50	535	35	10	6	170	24	26

* 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 May 2019	8	16	7	3	11	9	6	5
02 May 2019	4	10	5	3	18	5	5	6
03 May 2019	4	10	5	3	15	5	5	7
04 May 2019	4	10	5	3	15	5	5	7
05 May 2019	4	10	5	3	15	5	5	7
06 May 2019	4	10	5	3	15	5	5	7
07 May 2019	5	11	6	3	11	5	6	8
08 May 2019	5	11	6	3	11	5	6	8
09 May 2019	4	14	8	3	15	3	8	10
10 May 2019	4	14	8	3	15	3	8	10
11 May 2019	4	14	8	3	15	3	8	10
12 May 2019	4	14	8	3	15	3	8	10
13 May 2019	4	14	8	3	15	3	8	10
14 May 2019	4	13	6	6	12	4	8	12
15 May 2019	4	13	6	6	12	4	8	12
16 May 2019	4	20	8	4	8	5	11	17
17 May 2019	4	20	8	4	8	5	11	17
18 May 2019	4	20	8	4	8	5	11	17
19 May 2019	4	20	8	4	8	5	11	17
20 May 2019	4	20	8	4	8	5	11	17
21 May 2019	14	20	10	4	6	16	10	12
22 May 2019	14	20	10	4	6	16	10	12
23 May 2019	14	85	15	4	8	36	10	17
24 May 2019	14	85	15	4	8	36	10	17
25 May 2019	14	229	15	4	8	36	10	17
26 May 2019	14	229	15	4	8	36	10	17
27 May 2019	14	407	15	4	8	36	10	17
28 May 2019	12	494	10	4	6	32	7	12
29 May 2019	12	494	10	4	6	32	7	12
30 May 2019	12	345	10	4	6	32	7	12
31 May 2019	13	481	6	4	3	49	6	8

* 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
01 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
03 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	IC	IC	IC	IC	E
16 May 2019	ns	IC	ns	ns	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	IC	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

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

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
01 May 2019	IC	IC	E	IC	IC	IC	IC	E
03 May 2019	ns	ns	E	ns	ns	ns	ns	E
05 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	E	IC	IC	IC	E
16 May 2019	ns	IC	ns	IC	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	Е	IC	IC
23 May 2019	IC	E	ns	ns	ns	Е	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance E = Exceedance ns = not sampled

ND = no data

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
01 May 2019	IC	IC	IC	IC	E	IC	IC	E
03 May 2019	ns	ns	ns	ns	IC	ns	ns	IC
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	IC	ns	ns
25 May 2019	ns	E	ns	ns	ns	ns	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance E = Exceedance ns = not sampled

ND = no data

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	S 8	S9	S10	S11	S12
01 May 2019	IC	IC	E	IC	IC	IC	IC	E
03 May 2019	ns	ns	IC	ns	ns	ns	ns	IC
05 May 2019	ns	ns	ND	ns	ns	ns	ns	ND
07 May 2019	IC	IC	IC	IC	IC	IC	IC	IC
14 May 2019	IC	E	IC	IC	IC	IC	IC	IC
16 May 2019	ns	IC	ns	ND	ns	ns	ns	IC
21 May 2019	E	ns	IC	IC	IC	E	IC	IC
23 May 2019	IC	E	ns	ns	ns	E	ns	ns
25 May 2019	ns	E	ns	ns	ns	IC	ns	ns
27 May 2019	ns	E	ns	ns	ns	ns	ns	ns
28 May 2019	IC	E	IC	IC	IC	IC	IC	IC
30 May 2019	ns	E	ns	ns	ns	ns	ns	ns
31 May 2019	ns	IC	ns	ns	ns	ns	ns	ns

IC = In Compliance E = Exceedance

ns = not sampled

ND = no data

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	07 May 2019	1125	56	10e	36e	0.18
S0	14 May 2019	1055	12000	1600e	1200	0.13
S0	21 May 2019	1025	7800	1000	580	0.13
S0	28 May 2019	1045	7200	880	2000e	0.12
S2	07 May 2019	1235	<2	<2	<2	1.00
S2	14 May 2019	1015	20e	<2	2e	0.10
S2	21 May 2019	1210	800e	110	6e	0.14
S2	28 May 2019	1245	10e	8e	<2	0.80
					-	
S3	07 May 2019	1200	4e	<2	<2	0.50
S3	14 May 2019	945	40e	6e	2e	0.15
S3	21 May 2019	1135	>16000	5600	120	0.35
S3	28 May 2019	1200	2e	4e	<2	2.00
	20 110 20 10	1200	20	10	~-	2.00
S4	01 May 2019	819	80e	2e	8e	0.02
S4	07 May 2019	838	16e	18e	12e	1.12
S4	14 May 2019	1055	20e	<2	<2	0.10
S4	21 May 2019	854	>16000	6800	1600e	0.42
S4	23 May 2019	932	40e	16e	<2	0.40
S4	28 May 2019	741	800e	78	4e	0.40
07	20 May 2013	741	0000	70	70	0.10
S5	01 May 2019	926	880	180e	34e	0.20
S5	07 May 2019	1006	60e	18e	16e	0.30
S5	14 May 2019	851	1600e	200e	8e	0.12
S5	16 May 2019	839	24e	<2	ns	0.02
S5	21 May 2019	000	ns	ns	ns	ns
S5	23 May 2019	1040	>16000	>12000	>12000	0.75
S5	25 May 2019	833	>16000	>12000	>12000	0.75
S5	27 May 2019	752	>16000	>12000	7200	0.75
S5	28 May 2019	842	>16000	9000	1600e	0.75
S5	30 May 2019	822	3800e	400	28e	0.30
S5	31 May 2019	1012	1200e	400 80	ns	0.11
- 35	51 May 2019	1012	12000	00	115	0.07
S6	01 May 2019	941	3200e	520	86	0.16
S6	03 May 2019	805	8600	680	ns	0.08
S6	05 May 2019	708	ns	2e	ns	ns
S6	07 May 2019	1043	440	76	12e	0.17
S6	14 May 2019	920	160e	36e	<2	0.17
S6	21 May 2019	1007	320e	120e	26e	0.22
S6	28 May 2019	858	20e	4e	20e 2e	0.30
00	20 May 2019	000	200	70	20	0.20
S8	01 May 2019	1118	<2	<20	<2	10.00
S8	07 May 2019	1140	<2	<2	<2	1.00
S8	14 May 2019	747	9000	580	40	0.06
S8	16 May 2019	745	ns	<2	ns	ns
S8	21 May 2019	1145	<200	<2	<2	0.01
S8	28 May 2019	1009	<200	<20	2e	1.00
	20 May 2010	1000	~20	~20	20	1.00
S9	01 May 2019	1157	840	320e	240e	0.38
S9	03 May 2019	855	ns	ns	8e	ns
S9	07 May 2019	1231	20e	8e	2e	0.40
S9	14 May 2019	730	200e	16e	4e	0.08
S9	21 May 2019	1225	<200	4e	<2	0.02
	may 2010	1220	~200	.0	~-	0.02

Station	Date	Time	Total	Fecal	Entero	F:T
S9	28 May 2019	1036	<200	<2	<2	0.01
S10	01 May 2019	810	80e	4e	4e	0.05
S10	07 May 2019	900	12e	12e	6e	1.00
S10	14 May 2019	1029	<20	16e	12e	0.80
S10	21 May 2019	858	>16000	10000	2000e	0.62
S10	23 May 2019	958	3800	940	100	0.25
S10	25 May 2019	736	880	110	ns	0.12
S10	28 May 2019	728	1200e	120	20e	0.10
S11	01 May 2019	936	320e	22e	18e	0.07
S11	07 May 2019	1028	720	56	12e	0.08
S11	14 May 2019	909	440	52	8e	0.12
S11	21 May 2019	1003	820	60e	6e	0.07
S11	28 May 2019	852	<20	2e	<2	0.10
S12	01 May 2019	951	9000	2200e	120e	0.24
S12	03 May 2019	819	5000	480	24e	0.10
S12	05 May 2019	725	ns	4e	ns	ns
S12	07 May 2019	1101	460	10e	8e	0.02
S12	14 May 2019	804	13000	800	32e	0.06
S12	16 May 2019	759	940	140e	ns	0.15
S12	21 May 2019	1014	<20	<2	<2	0.10
S12	28 May 2019	909	20e	<2	<2	0.10

ns = not sampled ND = no data

Comments

Station	Date	Depth	Parameter	Comments
S6	03 May 2019			Resample
S9	03 May 2019			Resample
S12	03 May 2019			Resample
S6	05 May 2019			Resample
S12	05 May 2019			Resample
S5	16 May 2019			Resample
S8	16 May 2019			Resample
S12	16 May 2019			Resample
S4	23 May 2019			Resample
S5	23 May 2019			Resample
S10	23 May 2019			Resample
S5	25 May 2019			Resample
S10	25 May 2019			Resample
S5	27 May 2019			Resample
S5	30 May 2019			Resample
S5	31 May 2019			Resample

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

Station	Date	Parameter	Value
S0	07 May 2019	Arrive Time	1125
S0	07 May 2019	Weather	Cloudy
S0	07 May 2019	Wind Speed (kts)	5.2
S0	07 May 2019	Wind Dir	SW
S0	07 May 2019	Animal Life	3 Dogs; 20 Seagulls
S0	07 May 2019	Floatables	None
S0 S0		Water Color	Green
S0 S0	07 May 2019		
	07 May 2019	Current Direction	N 4F
S0	07 May 2019	Water Temp (C)	15
S0	07 May 2019	Wave Height Low (ft)	2
S0	07 May 2019	High Tide (ft)	3.5
S0	07 May 2019	High Tide Time	1201
S0	07 May 2019	Low Tide (ft)	1.9
S0	07 May 2019	Low Tide Time	1651
S0	07 May 2019	Comments	Kelp; Water turbid; 4 L/s water flowing from stormdrain
S0	14 May 2019	Arrive Time	1055
S0	14 May 2019	Weather	Cloudy
S0	14 May 2019	Wind Speed (kts)	0.9
SO	14 May 2019	Wind Dir	SW
SO	14 May 2019	Animal Life	20 Birds
S0	14 May 2019	Floatables	None
S0	14 May 2019	Water Color	Green
S0	14 May 2019	Current Direction	N
S0	14 May 2019	Water Temp (C)	15
S0	14 May 2019	Wave Height Low (ft)	2
S0 S0	14 May 2019	High Tide (ft)	4.4
S0 S0	•		616
1 1	14 May 2019	High Tide Time	
S0	14 May 2019	Low Tide (ft)	-0.1
S0	14 May 2019	Low Tide Time	1245 Water class: 0.5 L/a water flowing from storm drain. Dad alrea
S0	14 May 2019	Comments	Water clear; 0.5 L/s water flowing from storm drain; Red algae
S0	21 May 2019	Arrive Time	1025
S0	21 May 2019	Weather	Cloudy
S0	21 May 2019	Wind Speed (kts)	6.5
S0	21 May 2019	Wind Dir	SW
S0	21 May 2019	Animal Life	5 Shorebirds
SO	21 May 2019	Floatables	None
SO	21 May 2019	Water Color	Green
SO	21 May 2019	Current Direction	N
SO	21 May 2019	Water Temp (C)	15
S0	21 May 2019	Wave Height Low (ft)	3
S0	21 May 2019	High Tide (ft)	3.5
S0	21 May 2019	High Tide Time	1219
S0	21 May 2019	Low Tide (ft)	-0.7
S0	21 May 2019 21 May 2019	Low Tide Time	554
S0 S0	21 May 2019 21 May 2019	Comments	Kelp; Seagrass; Water clear; 0.5 L/s water flowing from stor-
30	21 iviay 2019	Comments	mdrain
S0	28 May 2019	Arrive Time	1045
1 1			
S0	28 May 2019	Weather	Sunny
S0	28 May 2019	Wind Speed (kts)	2.6
S0	28 May 2019	Wind Dir	NE 40 Ob such inde
S0	28 May 2019	Animal Life	10 Shorebirds
S0	28 May 2019	Floatables	None
S0	28 May 2019	Water Color	Green

Station	Date	Parameter	Value
S0	28 May 2019	Current Direction	Ν
S0	28 May 2019	Water Temp (C)	15
S0	28 May 2019	Wave Height Low (ft)	2
S0	28 May 2019	High Tide (ft)	3.5
S0	28 May 2019	High Tide Time	536
SO	28 May 2019	Low Tide (ft)	0.8
SO	28 May 2019	Low Tide Time	1201
S0	28 May 2019	Comments	Kelp; Algae; 2 Persons; Water clear; 0.5 L/s water flowing
00	20 May 2010	Comments	from storm drain
S2	07 May 2019	Arrive Time	1235
S2	07 May 2019	Weather	Cloudy
S2	07 May 2019	Wind Speed (kts)	5.8
S2	07 May 2019	Wind Dir	SW
S2	07 May 2019	Animal Life	3 Dogs; 20 Seagulls
S2	07 May 2019	Floatables	None
S2	07 May 2019	Water Color	Green
S2	07 May 2019	Current Direction	N
S2	07 May 2019	Water Temp (C)	16
S2	07 May 2019	Wave Height Low (ft)	2
S2	07 May 2019	High Tide (ft)	3.5
S2	07 May 2019	High Tide Time	1201
S2	07 May 2019	Low Tide (ft)	1.9
S2	07 May 2019	Low Tide Time	1651
S2	07 May 2019	Comments	Kelp; Water turbid; No flow from storm drain
S2	14 May 2019	Arrive Time	1015
S2	14 May 2019	Weather	Cloudy
S2	14 May 2019	Wind Speed (kts)	0.8
S2	14 May 2019	Wind Dir	SW
S2	14 May 2019	Animal Life	15 Shorebirds; 5 Dogs
S2	14 May 2019	Floatables	None
S2	14 May 2019	Water Color	Green
S2	14 May 2019	Current Direction	N
S2	14 May 2019	Water Temp (C)	15
S2	14 May 2019	Wave Height Low (ft)	2
S2	14 May 2019	High Tide (ft)	4.4
S2	14 May 2019	High Tide Time	616
S2	14 May 2019	Low Tide (ft)	-0.1
S2	14 May 2019	Low Tide Time	1245
S2	14 May 2019	Comments	5 Persons; Water clear; No flow from storm drain
	-		
S2	21 May 2019	Arrive Time	1210
S2	21 May 2019	Weather	Sunny
S2	21 May 2019	Wind Speed (kts)	6.9
S2	21 May 2019	Wind Dir	SW
S2	21 May 2019	Animal Life	5 Shorebirds; 1 Dog
S2	21 May 2019	Floatables	None
S2	21 May 2019	Water Color	Green
S2	21 May 2019	Current Direction	N
S2	21 May 2019	Water Temp (C)	15
S2	21 May 2019	Wave Height Low (ft)	3
S2	21 May 2019	High Tide (ft)	3.5
S2	21 May 2019	High Tide Time	1219
S2	21 May 2019	Low Tide (ft)	2.2
S2	21 May 2019	Low Tide Time	1703
S2	21 May 2019	Comments	Kelp; Algae; 2 Persons; Water clear; No flow from storm drain
S2	28 May 2019	Arrive Time	1245
S2	28 May 2019	Weather	Sunny
S2	28 May 2019	Wind Speed (kts)	2.9
	, _0.0	F (

Station	Date	Parameter	Value
S2	28 May 2019	Wind Dir	NE
S2	28 May 2019	Animal Life	10 Shorebirds; 1 Dog
S2	28 May 2019	Floatables	None
S2	28 May 2019	Water Color	Green
S2	28 May 2019	Current Direction	Ν
S2	28 May 2019	Water Temp (C)	15
S2	28 May 2019	Wave Height Low (ft)	2
S2	28 May 2019	High Tide (ft)	4.5
S2	28 May 2019	High Tide Time	1836
S2	28 May 2019	Low Tide (ft)	0.8
S2	28 May 2019	Low Tide Time	1201
S2	28 May 2019	Comments	Kelp; Algae; 5 Persons; Water clear; No flow from storm drain
S3	07 May 2019	Arrive Time	1200
S3	07 May 2019	Weather	Cloudy
S3	07 May 2019	Wind Speed (kts)	4.3
S3	07 May 2019	Wind Dir	SW
S3	07 May 2019	Animal Life	2 Dogs
S3	07 May 2019 07 May 2019	Floatables	None
S3	07 May 2019 07 May 2019	Water Color	Green
S3	07 May 2019 07 May 2019	Current Direction	N
S3	-		
	07 May 2019	Water Temp (C)	16
S3	07 May 2019	Wave Height Low (ft)	2
S3	07 May 2019	High Tide (ft)	3.5
S3	07 May 2019	High Tide Time	1201
S3	07 May 2019	Low Tide (ft)	1.9
S3	07 May 2019	Low Tide Time	1651
S3	07 May 2019	Comments	Kelp; Water turbid; No flow from storm drain
S3	14 May 2010	Arrive Time	945
	14 May 2019		
S3	14 May 2019	Weather	Cloudy
S3	14 May 2019	Wind Speed (kts)	0.5
S3	14 May 2019	Wind Dir	SW
S3	14 May 2019	Animal Life	5 Shorebirds; 5 Dogs
S3	14 May 2019	Floatables	None
S3	14 May 2019	Water Color	Green
S3	14 May 2019	Current Direction	N 4F
S3	14 May 2019	Water Temp (C)	15
S3	14 May 2019	Wave Height Low (ft)	2
S3	14 May 2019	High Tide (ft)	4.4
S3	14 May 2019	High Tide Time	616
S3	14 May 2019	Low Tide (ft)	-0.1
S3	14 May 2019	Low Tide Time	1245
S3	14 May 2019	Comments	15 Persons; Water clear; No flow from storm drain; Red algae
62	21 May 2010		1125
S3	21 May 2019	Arrive Time	1135 Suppy
S3	21 May 2019	Weather	Sunny
S3	21 May 2019	Wind Speed (kts)	6.6 SW
S3	21 May 2019	Wind Dir	SW
S3	21 May 2019	Animal Life	5 Shorebirds; 1 Dog
S3	21 May 2019	Floatables	None
S3	21 May 2019	Water Color	Green
S3	21 May 2019	Current Direction	N
S3	21 May 2019	Water Temp (C)	15
S3	21 May 2019	Wave Height Low (ft)	3
S3	21 May 2019	High Tide (ft)	3.5
S3	21 May 2019	High Tide Time	1219
S3	21 May 2019	Low Tide (ft)	2.2
S3	21 May 2019	Low Tide Time	1703
S3	21 May 2019	Comments	Kelp; Algae; 2 Persons; Water clear; No flow from storm drain

S3 28 May 2019 Arrive Time 1200 S3 28 May 2019 Weather Sunny S3 28 May 2019 Wind Speed (kts) 2.8 S3 28 May 2019 Wind Dir NE S3 28 May 2019 Animal Life 10 Shorebirds; 2 Dogs S3 28 May 2019 Floatables None S3 28 May 2019 Water Color Green S3 28 May 2019 Current Direction N S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide Time 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4	
S3 28 May 2019 Wind Speed (kts) 2.8 S3 28 May 2019 Wind Dir NE S3 28 May 2019 Animal Life 10 Shorebirds; 2 Dogs S3 28 May 2019 Floatables None S3 28 May 2019 Water Color Green S3 28 May 2019 Water Color If Same S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide Time 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide Time 1201 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S328 May 2019Wind DirNES328 May 2019Animal Life10 Shorebirds; 2 DogsS328 May 2019FloatablesNoneS328 May 2019Water ColorGreenS328 May 2019Current DirectionNS328 May 2019Water Temp (C)15S328 May 2019Water Temp (C)15S328 May 2019Wave Height Low (ft)2S328 May 2019High Tide (ft)3.5S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide (ft)0.8S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019Wind Speed (kts)3.8	
S328 May 2019Animal Life10 Shorebirds; 2 DogsS328 May 2019FloatablesNoneS328 May 2019Water ColorGreenS328 May 2019Current DirectionNS328 May 2019Water Temp (C)15S328 May 2019Water Temp (C)15S328 May 2019Wave Height Low (ft)2S328 May 2019High Tide (ft)3.5S328 May 2019High Tide (ft)0.8S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide Time1201S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019Wind Speed (kts)3.8	
S328 May 2019Animal Life10 Shorebirds; 2 DogsS328 May 2019FloatablesNoneS328 May 2019Water ColorGreenS328 May 2019Current DirectionNS328 May 2019Water Temp (C)15S328 May 2019Wave Height Low (ft)2S328 May 2019High Tide (ft)3.5S328 May 2019High Tide (ft)536S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide (ft)5 Persons; Water clear; No flow from storm drS328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S328 May 2019FloatablesNoneS328 May 2019Water ColorGreenS328 May 2019Current DirectionNS328 May 2019Water Temp (C)15S328 May 2019Wave Height Low (ft)2S328 May 2019High Tide (ft)3.5S328 May 2019High Tide (ft)536S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide (ft)0.8S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S3 28 May 2019 Water Color Green S3 28 May 2019 Current Direction N S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide (ft) 0.8 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide Time 1201 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S3 28 May 2019 Current Direction N S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide (ft) 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide (ft) 5 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Comments 5 S3 28 May 2019 Comments 5 S3 28 May 2019 Comments 5 S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S3 28 May 2019 Water Temp (C) 15 S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide Time 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide Time 1201 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S3 28 May 2019 Wave Height Low (ft) 2 S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide Time 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide Time 1201 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S3 28 May 2019 High Tide (ft) 3.5 S3 28 May 2019 High Tide Time 536 S3 28 May 2019 Low Tide (ft) 0.8 S3 28 May 2019 Low Tide Time 1201 S3 28 May 2019 Comments 5 Persons; Water clear; No flow from storm dr S4 01 May 2019 Arrive Time 819 S4 01 May 2019 Weather Cloudy S4 01 May 2019 Wind Speed (kts) 3.8	
S328 May 2019High Tide Time536S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide Time1201S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S328 May 2019Low Tide (ft)0.8S328 May 2019Low Tide Time1201S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S328 May 2019 28 May 2019Low Tide Time Comments1201 5 Persons; Water clear; No flow from storm drS401 May 2019 S4Arrive Time Weather819 CloudyS401 May 2019 01 May 2019Weather Wind Speed (kts)Cloudy 3.8	
S328 May 2019Comments5 Persons; Water clear; No flow from storm drS401 May 2019Arrive Time819S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S401 May 2019Arrive Time819S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	rain
S401 May 2019WeatherCloudyS401 May 2019Wind Speed (kts)3.8	
S4 01 May 2019 Wind Speed (kts) 3.8	
S4 01 May 2019 Wind Dir W	
S4 01 May 2019 Animal Life None	
S4 01 May 2019 Floatables None	
S4 01 May 2019 Water Color Green	
S4 01 May 2019 Current Direction N	
S4 01 May 2019 Water Temp (C) 16.8	
S4 01 May 2019 Wave Height Low (ft) 4	
S4 01 May 2019 High Tide (ft) 4.2	
S4 01 May 2019 High Tide Time 751	
S4 01 May 2019 Low Tide (ft) 0.4	
S4 01 May 2019 Low Tide Time 1403	
S4 01 May 2019 Comments Kelp; Seagrass; Water clear	
S4 07 May 2019 Arrive Time 838	
S4 07 May 2019 Weather Partly Cloudy	
S4 07 May 2019 Wind Speed (kts) 2.2	
S4 07 May 2019 Wind Dir W	
S4 07 May 2019 Animal Life None	
S4 07 May 2019 Floatables None	
S4 07 May 2019 Water Color Green	
S4 07 May 2019 Current Direction N	
S4 07 May 2019 Water Temp (C) 17.2	
S4 07 May 2019 Wave Height Low (ft) 3	
S4 07 May 2019 High Tide (ft) 3.5	
S4 07 May 2019 High Tide Time 1201	
S4 07 May 2019 Low Tide (ft) -0.6	
S4 07 May 2019 Low Tide Time 542	
S4 07 May 2019 Comments Kelp; Seagrass; Water clear	
S4 14 May 2019 Arrive Time 1055	
S4 14 May 2019 Weather Sunny	
S4 14 May 2019 Wind Speed (kts) 4.8	
S4 14 May 2019 Wind Dir E	
S4 14 May 2019 Animal Life 3 Grebes; 1 Seagull	
S4 14 May 2019 Floatables None	
S4 14 May 2019 Water Color Green	
S4 14 May 2019 Current Direction E	
S4 14 May 2019 Water Temp (C) 21.2	
S4 14 May 2019 Wave Height Low (ft) 6	
S4 14 May 2019 High Tide (ft) 4.4	
S4 14 May 2019 High Tide Time 616	
S4 14 May 2019 Low Tide (ft) -0.1	

Station	Date	Parameter	Value
S4	14 May 2019	Low Tide Time	1245
S4	14 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
S4	21 May 2019	Arrive Time	854
S4	21 May 2019	Weather	Cloudy
S4	21 May 2019	Wind Speed (kts)	10.3
S4	21 May 2019	Wind Dir	W
S4	21 May 2019	Animal Life	None
S4	21 May 2019	Floatables	None
S4	21 May 2019	Water Color	Green
S4	21 May 2019	Current Direction	S
S4	21 May 2019	Water Temp (C)	16.2
S4	21 May 2019	Wave Height Low (ft)	4
S4	21 May 2019	High Tide (ft)	3.5
S4	21 May 2019	High Tide Time	1219
S4	21 May 2019	Low Tide (ft)	-0.7
S4	21 May 2019	Low Tide Time	554
S4	21 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
	,		
S4	23 May 2019	Arrive Time	932
S4	23 May 2019	Weather	Overcast
S4	23 May 2019	Wind Speed (kts)	8.3
S4	23 May 2019	Wind Dir	E
S4	23 May 2019	Animal Life	25 Seagulls
S4	23 May 2019	Floatables	Foam
S4	23 May 2019	Water Color	Green
S4	23 May 2019	Current Direction	E
S4	23 May 2019	Water Temp (C)	18
S4	23 May 2019	Wave Height Low (ft)	5
S4	23 May 2019	High Tide (ft)	3.2
S4	23 May 2019	High Tide Time	1432
S4	23 May 2019	Low Tide (ft)	-0.1
S4	23 May 2019	Low Tide Time	732
S4	23 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Water clear
	- ,		
S4	28 May 2019	Arrive Time	741
S4	28 May 2019	Weather	Sunny
S4	28 May 2019	Wind Speed (kts)	1.5
S4	28 May 2019	Wind Dir	E
S4	28 May 2019	Animal Life	None
S4	28 May 2019	Floatables	Foam
S4	28 May 2019	Water Color	Green
S4	28 May 2019	Current Direction	E
S4	28 May 2019	Water Temp (C)	15
S4	28 May 2019	Wave Height Low (ft)	3
S4	28 May 2019	High Tide (ft)	3.5
S4	28 May 2019	High Tide Time	536
S4	28 May 2019	Low Tide (ft)	0.8
S4	28 May 2019	Low Tide Time	1201
S4	28 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
	,,		
S5	01 May 2019	Arrive Time	926
S5	01 May 2019	Weather	Cloudy
S5	01 May 2019	Wind Speed (kts)	5.4
S5	01 May 2019	Wind Dir	W
S5	01 May 2019	Animal Life	None
S5	01 May 2019	Floatables	None
S5	01 May 2019	Water Color	Green
S5	01 May 2019	Current Direction	N
S5	01 May 2019	Water Temp (C)	16.8
S5	01 May 2019	Wave Height Low (ft)	3
	,	5 (1)	

Station	Date	Parameter	Value
S5	01 May 2019	High Tide (ft)	4.2
S5	01 May 2019	High Tide Time	751
S5	01 May 2019	Low Tide (ft)	0.4
S5	01 May 2019	Low Tide Time	1403
S5	01 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
S5	07 May 2019	Arrive Time	1006
S5	07 May 2019	Weather	Partly Cloudy
S5	07 May 2019	Wind Speed (kts)	1.5
S5	07 May 2019	Wind Dir	W
S5	07 May 2019	Animal Life	2 Dogs
S5	07 May 2019	Floatables	None
S5	07 May 2019	Water Color	Green
S5	07 May 2019	Current Direction	N
S5	07 May 2019	Water Temp (C)	16.9
S5	07 May 2019	Wave Height Low (ft)	3
S5	07 May 2019	High Tide (ft)	3.5
S5	07 May 2019	High Tide Time	1201
S5	07 May 2019	Low Tide (ft)	-0.6
S5	07 May 2019	Low Tide Time	542
S5	07 May 2019	Comments	Kelp; Seagrass; Debris; 2 Persons; Water clear
- 55	07 Way 2019	Comments	Nelp, Seagrass, Debris, 21 ersons, Water clear
S5	14 May 2010	Arrive Time	927
S5	14 May 2019	Weather	-
S5	14 May 2019		Overcast
	14 May 2019	Wind Speed (kts)	4.6
S5	14 May 2019	Wind Dir	S 45 Orahara 0.0 a multa
S5	14 May 2019	Animal Life	15 Grebes; 2 Seagulls
S5	14 May 2019	Floatables	Foam
S5	14 May 2019	Water Color	Green
S5	14 May 2019	Current Direction	S
S5	14 May 2019	Water Temp (C)	20.7
S5	14 May 2019	Wave Height Low (ft)	3
S5	14 May 2019	High Tide (ft)	4.4
S5	14 May 2019	High Tide Time	616
S5	14 May 2019	Low Tide (ft)	-0.1
S5	14 May 2019	Low Tide Time	1245
S5	14 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
0.5	10 May 2010	A muito de Tines e	000
S5	16 May 2019	Arrive Time	839
S5	16 May 2019	Weather	Overcast
S5	16 May 2019	Wind Speed (kts)	13.9
S5	16 May 2019	Wind Dir	N
S5	16 May 2019	Animal Life	
S5	16 May 2019	Floatables	Foam; Film
S5	16 May 2019	Water Color	Green
S5	16 May 2019	Current Direction	N
S5	16 May 2019	Water Temp (C)	19.8
S5	16 May 2019	Wave Height Low (ft)	2
S5	16 May 2019	High Tide (ft)	4.5
S5	16 May 2019	High Tide Time	811
S5	16 May 2019	Low Tide (ft)	0.4
S5	16 May 2019	Low Tide Time	1405
S5	16 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Sewage-like odor; 1 Jog- ger; Water clear
S5	23 May 2019	Arrive Time	1040
S5 S5	-	Weather	-
S5 S5	23 May 2019		Overcast 5.4
S5 S5	23 May 2019	Wind Speed (kts)	5.4 N
S5	23 May 2019 23 May 2019	Wind Dir Animal Life	14 Pelicans; 3 Seagulls
S5	23 May 2019 23 May 2019	Floatables	Foam; Film
- 55	20 May 2019		r ourn, r iim

S5 23 May 2019 Water Color Green S5 23 May 2019 Water Temp (C) 18.3 S5 23 May 2019 Water Height Low (ft) 4 S5 23 May 2019 High Tide (ft) 14.32 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Arrive Time 833 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Mind Dir E S5 25 May 2019 Mater Color Brown S5 25 May 2019 Current Direction Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019	
S5 23 May 2019 Current Direction N S5 23 May 2019 Water Temp (C) 18.3 S5 23 May 2019 High Tide (ft) 3.2 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Arrive Time 833 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Floatables Foam; Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Height Low (ft) 3 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Low Tide Time 136 S5 25 May 2019 Low Tide Time 330 S5 25 May 20	
S5 23 May 2019 Water Temp (C) 18.3 S5 23 May 2019 High Tide (ft) 3.2 S5 23 May 2019 High Tide (ft) 1432 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Arrive Time B33 S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 27 May 2019 Wr	
S5 23 May 2019 Wave Height Low (ft) 4 S5 23 May 2019 High Tide (ft) 3.2 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Height Low (ft) 3 S5 25 May 2019 Low Tide ftme 136 S5 25 May 2019 Low Tide ftme 136 S5 25 May 2019 Low Tide ftme 752 S6 27 May 2019	
S5 23 May 2019 High Tide (ft) 3.2 S5 23 May 2019 Low Tide (ft) 1432 S5 23 May 2019 Low Tide (ft) 732 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Wind Pir 833 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Dir E S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Vind Dir E S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 3.6 S5 27 May 2019 Varive Time 75	
S5 23 May 2019 High Tide Time 1432 S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Viente Time 833 S5 25 May 2019 Weather Sunny S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Floatables Foam; Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Fomp (C) 21.8 S5 25 May 2019 Water Formg (C) 21.8 S5 25 May 2019 Water Formg (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 752 S6 27 May 2019 Kerter Party Cloudy S5 27 May 2019	
S5 23 May 2019 Low Tide (ft) -0.1 S5 23 May 2019 Low Tide Time 732 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Weather Sunny S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Water Color E S5 25 May 2019 Water Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 25.8 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 3.6 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Die Kts) 3.6 S5 27	
S5 23 May 2019 Low Tide Time 732 S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Wrind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Wave Height Low (ft) 3 S5 25 May 2019 High Tide Time 136 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Dir S S S5 27 May 2019 Wind Dir S S S5 27 May 2019 Wind Dir S	
S5 23 May 2019 Comments Resample; Kelp; Seagrass; Debris; Water clear S5 25 May 2019 Arrive Time 833 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Minal Life 20 Seagulls S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 930 S5 25 May 2019 Low Tide (ft) 930 S5 27 May 2019 Weather 930 S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Wind Dir S S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Vind Time	
S5 25 May 2019 Arrive Time 833 S5 25 May 2019 Weather Sunny S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Floatables Foam; Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Dir S S S5 27 May 2019 Marine Time 752 S6 27 May 2019 Mainal Life 5 Seagulls S5	
S5 25 May 2019 Weather Sunny S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Hainal Life 20 Seagulls S5 25 May 2019 Vater Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Weather Partly Cloudy 3.6 S5 27 May 2019 Wind Dir S S S5 27 May 2019 Arrive Time S S	
S5 25 May 2019 Weather Sunny S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Hainal Life 20 Seagulls S5 25 May 2019 Vater Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Weather Partly Cloudy 3.6 S5 27 May 2019 Wind Dir S S S5 27 May 2019 Arrive Time S S	
S5 25 May 2019 Wind Speed (kts) 1.9 S5 25 May 2019 Wind Dir E S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Vater Color Brown S5 25 May 2019 Water Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Wave Height Low (ft) 3 S5 25 May 2019 Low Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Speed (kts) 3.6 3 S5 27 May 2019 Wind Speed (kts) 3.6 3 S5 27 May 2019 Arrive Time S S S5 27 May 2019 Vater Color Green S <	
S5 25 May 2019 Wind Dir E S5 25 May 2019 Floatables Foam; Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Color E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Wave Height Low (ft) 3 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Dir S 3.6 S5 27 May 2019 Wind Dir S S S5 27 May 2019 Wind Dir S S S5 27 May 2019 Wind Dir S S S5 27 May 2019 Water Temp (C) 19.4 S	
S5 25 May 2019 Animal Life 20 Seagulls S5 25 May 2019 Floatables Foam, Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Height Low (ft) 3 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide filme 136 S5 25 May 2019 Low Tide filme 930 S5 25 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Dir S S5 27 May 2019 Wind Dir S S5 27 May 2019 Water Color Green S5 27 May 2019 Vater Temp (C) S S5 27 May 2019 Water Temp (C) S S5 27 May 2019 Water Temp (C) S	
S5 25 May 2019 Floatables Foam; Dead Animals; Film S5 25 May 2019 Water Color Brown S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Weather Partly Cloudy 3.6 S5 27 May 2019 Wind Dir S S Seagulls S5 27 May 2019 Wind Dir S S Seagulls S5 27 May 2019 Water Color Green S Seagulls S5 27 May 2019 Vater Color S Seagulls S Seagulls S5 27 May 2019 Water Temp (C) 19.4 3.5 2	
S5 25 May 2019 Water Color Brown S5 25 May 2019 Current Direction E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Animal Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019<	
S5 25 May 2019 Current Direction E S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Comments 930 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Weather Partiy Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Arimal Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019	
S5 25 May 2019 Water Temp (C) 21.8 S5 25 May 2019 High Tide (ft) 3 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Mind Dir S S5 27 May 2019 Arrive Time 752 S5 27 May 2019 Wind Dir S S5 27 May 2019 Wind Dir S S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Low Tide (ft) <t< td=""><td></td></t<>	
S5 25 May 2019 Wave Height Low (ft) 3 S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Mind Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Color S S5 27 May 2019 Water Height Low (ft) 2 S5 27 May 2019 Water Height Low (ft) 2 S5 27 May 2019 Water Color Green S5 27 May 2019 Water Height Low (ft) 3.5 S5 27	
S5 25 May 2019 High Tide (ft) 4 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 136 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor clear S5 27 May 2019 Arrive Time 752 S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Minal Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wate Temp (C) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019	
S5 25 May 2019 High Tide Time 136 S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments 930 S5 25 May 2019 Arrive Time 930 S5 27 May 2019 Arrive Time 752 S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Airmal Life 5 Seagulls S5 27 May 2019 Airmal Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 3.5 S5 27 May 2019 Wave Height Low (ft) 2.5 S5 27 May 2019 Low Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8<	
S5 25 May 2019 Low Tide (ft) 0.5 S5 25 May 2019 Low Tide Time 930 S5 25 May 2019 Comments 930 S5 27 May 2019 Arrive Time 930 S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Animal Life 5 Seagulls S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 Low Tide Time 425 S5 27 May 2019 Low Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 3.5 S5 27 May 2019 Low Tide Time 425 S5 27 May 2019 Low Tide Time 425 </td <td></td>	
S525 May 2019 25 May 2019Low Tide Time Comments930 Resample; Kelp; Seagrass; Debris; Sewage-like odor clearS527 May 2019 S5Arrive Time Weather752 Partly CloudyS527 May 2019 S5Wind Speed (kts) Wind Dir S53.6S527 May 2019 Wind DirMind Dir SS527 May 2019 Vind 2019Mind Dir FloatablesSS527 May 2019 Vind DirFloatables Water ColorFoam; Film GreenS527 May 2019 Vay 2019Current Direction Water Temp (C)SS527 May 2019 Vay 2019Water Temp (C) Water Temp (C)19.4S527 May 2019 Vay 2019Water Time Low Tide (ft)3.5S527 May 2019 Vay 2019Low Tide (ft) Low Tide (ft)3.5S527 May 2019 Vay 2019Low Tide Time Low Tide Time425S527 May 2019 Vay 2019Low Tide Time Low Tide Time1119S528 May 2019 Vay 2019Arrive Time Weather842S528 May 2019 Vind Speed (kts)3.63.6S528 May 2019 Vind Speed (kts)3.63.6	
S525 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor clearS527 May 2019Arrive Time752S527 May 2019WeatherPartly CloudyS527 May 2019Wind Speed (kts)3.6S527 May 2019Wind DirSS527 May 2019Animal Life5 SeagullsS527 May 2019FloatablesFoam; FilmS527 May 2019Current DirectionSS527 May 2019Water Temp (C)19.4S527 May 2019Wave Height Low (ft)2S527 May 2019High Tide (ft)3.5S527 May 2019Low Tide Time425S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019 S5Arrive Time Weather752 Partly CloudyS527 May 2019Weather Wind Speed (kts)Partly CloudyS527 May 2019Wind Speed (kts)3.6S527 May 2019Animal Life Floatables5 SeagullsS527 May 2019Animal Life5 SeagullsS527 May 2019Vater ColorGreenS527 May 2019Current DirectionSS527 May 2019Water Temp (C)19.4S527 May 2019Wave Height Low (ft)2S527 May 2019High Tide (ft)3.5S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide (ft)0.8S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DireN	: Water
S5 27 May 2019 Arrive Time 752 S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Minal Life 5 Seagulls S5 27 May 2019 Floatables Foam; Film S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide Time 425 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide Time 1119 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 Ma	,
S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Animal Life 5 Seagulls S5 27 May 2019 Floatables Foam; Film S5 27 May 2019 Water Color Green S5 27 May 2019 Water Color S S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide Time 1119 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 May 2019 Arrive Time 842 S5 28 May 2019 Weather Sunny S5 28 May 201	
S5 27 May 2019 Weather Partly Cloudy S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Animal Life 5 Seagulls S5 27 May 2019 Floatables Foam; Film S5 27 May 2019 Water Color Green S5 27 May 2019 Water Color S S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide Time 1119 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 May 2019 Arrive Time 842 S5 28 May 2019 Weather Sunny S5 28 May 201	
S5 27 May 2019 Wind Speed (kts) 3.6 S5 27 May 2019 Wind Dir S S5 27 May 2019 Animal Life 5 Seagulls S5 27 May 2019 Floatables Foam; Film S5 27 May 2019 Water Color Green S5 27 May 2019 Water Color Green S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide Time 1119 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 May 2019 Arrive Time 842 S5 28 May 2019 Weather Sunny S5 28 May 2019 </td <td></td>	
S527 May 2019Wind DirSS527 May 2019Animal Life5 SeagullsS527 May 2019FloatablesFoam; FilmS527 May 2019Water ColorGreenS527 May 2019Current DirectionSS527 May 2019Water Temp (C)19.4S527 May 2019Wave Height Low (ft)2S527 May 2019High Tide (ft)3.5S527 May 2019High Tide (ft)0.8S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019 S5Animal Life Floatables5 Seagulls Foam; FilmS527 May 2019FloatablesFoam; FilmS527 May 2019Water ColorGreenS527 May 2019Water Temp (C)19.4S527 May 2019Water Temp (C)19.4S527 May 2019Wave Height Low (ft)2S527 May 2019High Tide (ft)3.5S527 May 2019High Tide (ft)3.5S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide (ft)0.8S527 May 2019Comments1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time Weather842S528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019 S5Floatables Water ColorFoam; Film GreenS527 May 2019 S5Water ColorGreenS527 May 2019 S5Water Temp (C)19.4S527 May 2019 S5Wave Height Low (ft)2S527 May 2019 S5High Tide (ft)3.5S527 May 2019 High Tide (ft)Uwr Height Low (ft)2S527 May 2019 S5High Tide (ft)0.8S527 May 2019 Low Tide (ft)Low Tide (ft)0.8S527 May 2019 Low Tide Time1119S527 May 2019 CommentsCommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019 S5Arrive Time Weather842 SunnyS528 May 2019 Wind Speed (kts)3.6S528 May 2019 Wind DirN	
S527 May 2019Water ColorGreenS527 May 2019Current DirectionSS527 May 2019Water Temp (C)19.4S527 May 2019Wave Height Low (ft)2S527 May 2019High Tide (ft)3.5S527 May 2019High Tide (ft)0.8S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide (ft)0.8S527 May 2019Comments1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S5 27 May 2019 Current Direction S S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 High Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Comments 1119 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 May 2019 Arrive Time 842 S5 28 May 2019 Weather Sunny S5 28 May 2019 Wind Speed (kts) 3.6 S5 28 May 2019 Wind Dir N	
S5 27 May 2019 Water Temp (C) 19.4 S5 27 May 2019 Wave Height Low (ft) 2 S5 27 May 2019 High Tide (ft) 3.5 S5 27 May 2019 High Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Low Tide (ft) 0.8 S5 27 May 2019 Comments Resample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clear S5 28 May 2019 Arrive Time 842 S5 28 May 2019 Weather Sunny S5 28 May 2019 Wind Speed (kts) 3.6 S5 28 May 2019 Wind Dir N	
S527 May 2019 S5Wave Height Low (ft)2S527 May 2019 High Tide (ft)High Tide (ft)3.5S527 May 2019 S5Low Tide (ft)0.8S527 May 2019 S5Low Tide (ft)1119S527 May 2019 S5CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019 S5Arrive Time Weather842 SunnyS528 May 2019 S5Wind Speed (kts) Wind Dir3.6 N	
S527 May 2019High Tide (ft)3.5S527 May 2019High Tide Time425S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019High Tide Time425S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019Low Tide (ft)0.8S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019Low Tide Time1119S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S527 May 2019CommentsResample; Kelp; Seagrass; Debris; Sewage-like odor; son; Water clearS528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	: 1 Per-
S528 May 2019Arrive Time842S528 May 2019WeatherSunnyS528 May 2019Wind Speed (kts)3.6S528 May 2019Wind DirN	
S5 28 May 2019 Weather Sunny S5 28 May 2019 Wind Speed (kts) 3.6 S5 28 May 2019 Wind Dir N	
S5 28 May 2019 Weather Sunny S5 28 May 2019 Wind Speed (kts) 3.6 S5 28 May 2019 Wind Dir N	
S5 28 May 2019 Wind Speed (kts) 3.6 S5 28 May 2019 Wind Dir N	
S5 28 May 2019 Wind Dir N	
S5 28 May 2019 Animal Life 16 Pelicans	
S5 28 May 2019 Floatables Foam; Film	
S5 28 May 2019 Water Color Brown	
S5 28 May 2019 Current Direction N	
S5 28 May 2019 Water Temp (C) 17.2	
S5 28 May 2019 Wave Height Low (ft) 3	
S5 28 May 2019 High Tide (ft) 3.5	
S5 28 May 2019 High Tide Time 536	
S5 28 May 2019 Low Tide (ft) 0.8	
S5 28 May 2019 Low Tide Time 1201	
S5 28 May 2019 Comments Kelp; Seagrass; Debris; Sewage-like odor; Water clea	r
S5 30 May 2019 Arrive Time 822	

S530 May 2019WeatherOvercastS530 May 2019Wind Speed (kts)4.6S530 May 2019Wind DirSS530 May 2019Animal Life1 PelicanS530 May 2019FloatablesFoam; Fil	t
S5 30 May 2019 Wind Speed (kts) 4.6 S5 30 May 2019 Wind Dir S S5 30 May 2019 Animal Life 1 Pelican	
S530 May 2019Wind DirSS530 May 2019Animal Life1 Pelican	
S5 30 May 2019 Animal Life 1 Pelican	
	n; 85 Seagulls
	-
S5 30 May 2019 Water Color Brown	
S5 30 May 2019 Current Direction S	
S5 30 May 2019 Water Temp (C) 17.8	
S5 30 May 2019 High Tide (ft) 3.7	
S5 30 May 2019 High Tide Time 724	
S5 30 May 2019 Low Tide (ft) 1	
S5 30 May 2019 Low Tide Time 1311	
S5 30 May 2019 Comments Resample	le; Kelp; Seagrass; Debris; Sewage-like odor; Water
clear	
S5 31 May 2019 Arrive Time 1012	
S5 31 May 2019 Weather Overcast	t I
S5 31 May 2019 Wind Speed (kts) 2.7	
S5 31 May 2019 Wind Dir E	
S5 31 May 2019 Animal Life None	
S5 31 May 2019 Floatables Foam; Fil	ilm; Yellow film
S5 31 May 2019 Water Color Brown	
S5 31 May 2019 Current Direction E	
S5 31 May 2019 Water Temp (C) 18.8	
S5 31 May 2019 Wave Height Low (ft) 2	
S5 31 May 2019 High Tide (ft) 3.8	
S5 31 May 2019 Low Tide (ft) 1.2 05 04 May 2019 Low Tide Time 1240	
S5 31 May 2019 Low Tide Time 1343	
	le; Kelp; Seagrass; Debris; Sewage-like odor; Water
clear	
S6 01 May 2019 Arrive Time 941	
S6 01 May 2019 Weather Cloudy	
S6 01 May 2019 Wind Speed (kts) 4.8 Virus 100 Virus 100 Virus 100 Virus 100	
S6 01 May 2019 Wind Dir NW	
S6 01 May 2019 Animal Life None	
S6 01 May 2019 Floatables None	
S6 01 May 2019 Water Color Green	
S6 01 May 2019 Current Direction W	
S6 01 May 2019 Water Temp (C) 18.4	
S6 01 May 2019 Wave Height Low (ft) 3	
S6 01 May 2019 High Tide (ft) 4.2	
S6 01 May 2019 High Tide Time 751	
S6 01 May 2019 Low Tide (ft) 0.4	
S6 01 May 2019 Low Tide Time 1403	
	agrass; 1 Person; Water clear
S6 03 May 2019 Arrive Time 805	
S6 03 May 2019 Weather Overcast	t
S6 03 May 2019 Wind Speed (kts) 3.3	
S6 03 May 2019 Wind Opeed (kts) 5.5 S6 03 May 2019 Wind Dir N	
	20 Velella jellvfish
	20 Velella jellyfish
S6 03 May 2019 Floatables Foam	
S6 03 May 2019 Water Color Green	
S6 03 May 2019 Current Direction N	
S6 03 May 2019 Water Temp (C) 16.7	
S6 03 May 2019 Wave Height Low (ft) 3	
S6 03 May 2019 High Tide (ft) 4.3	
S6 03 May 2019 High Tide Time 905	

Station	Date	Parameter	Value
S6	03 May 2019	Low Tide (ft)	0.1
S6	03 May 2019	Low Tide Time	308
S6	03 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Water clear
			······································
S6	05 May 2019	Arrive Time	708
S6	05 May 2019	Weather	Overcast
S6	05 May 2019	Wind Speed (kts)	1.5
S6	05 May 2019	Wind Dir	E
S6	05 May 2019	Animal Life	– None
S6	05 May 2019	Floatables	None
S6	05 May 2019	Water Color	Green
S6	05 May 2019	Current Direction	N
S6	05 May 2019	Water Temp (C)	17.1
S6	05 May 2019	Wave Height Low (ft)	1
S6			4
	05 May 2019	High Tide (ft)	
S6	05 May 2019	High Tide Time	1024
S6	05 May 2019	Low Tide (ft)	-0.5
S6	05 May 2019	Low Tide Time	419
S6	05 May 2019	Comments	Resample; Kelp; Seagrass; Water clear
S6	07 May 2019	Arrive Time	1043
S6	07 May 2019 07 May 2019	Weather	Partly Cloudy
S6	•		
	07 May 2019	Wind Speed (kts)	1.7 W
S6	07 May 2019	Wind Dir	W
S6	07 May 2019	Animal Life	None
S6	07 May 2019	Floatables	None
S6	07 May 2019	Water Color	Green
S6	07 May 2019	Current Direction	N
S6	07 May 2019	Water Temp (C)	17.9
S6	07 May 2019	Wave Height Low (ft)	2
S6	07 May 2019	High Tide (ft)	3.5
S6	07 May 2019	High Tide Time	1201
S6	07 May 2019	Low Tide (ft)	-0.6
S6	07 May 2019	Low Tide Time	542
S6	07 May 2019	Comments	Kelp; Seagrass; 3 Persons; Water clear
S6	14 May 2019	Arrive Time	920
S6	14 May 2019	Weather	Overcast
S6	14 May 2019	Wind Speed (kts)	5.6
S6	14 May 2019	Wind Dir	S
S6	14 May 2019	Animal Life	1 Dog
S6	14 May 2019	Floatables	Foam
S6	14 May 2019	Water Color	Green
S6	14 May 2019	Current Direction	S
S6	14 May 2019	Water Temp (C)	21.1
S6	•	Wave Height Low (ft)	5
S6	14 May 2019		
	14 May 2019	High Tide (ft)	4.4
S6	14 May 2019	High Tide Time	616
S6	14 May 2019	Low Tide (ft)	-0.1
S6	14 May 2019	Low Tide Time	1245 Kalas Saarraas Dahrias A Darramas 2 Surfama Watan alaan
S6	14 May 2019	Comments	Kelp; Seagrass; Debris; 4 Persons; 2 Surfers; Water clear
S6	21 May 2019	Arrive Time	1007
S6	21 May 2019	Weather	Cloudy
S6	21 May 2019	Wind Speed (kts)	9.3
S6	21 May 2019	Wind Dir	W
S6	21 May 2019	Animal Life	None
S6	21 May 2019	Floatables	None
S6	21 May 2019	Water Color	Green
S6	21 May 2019	Current Direction	SW
S6	21 May 2019	Water Temp (C)	16.2
		······································	-

Station	Date	Parameter	Value
S6	21 May 2019	Wave Height Low (ft)	4
S6	21 May 2019	High Tide (ft)	3.5
S6	21 May 2019	High Tide Time	1219
S6	21 May 2019	Low Tide (ft)	-0.7
S6	21 May 2019	Low Tide Time	554
S6	21 May 2019	Comments	Kelp; Seagrass; 1 Person; Water clear
S6	28 May 2019	Arrive Time	858
S6	28 May 2019	Weather	Sunny
S6	28 May 2019	Wind Speed (kts)	2.3
S6	28 May 2019	Wind Dir	Ν
S6	28 May 2019	Animal Life	25 Grebes
S6	28 May 2019	Floatables	Foam
S6	28 May 2019	Water Color	Green
S6	28 May 2019	Current Direction	N
S6	28 May 2019	Water Temp (C)	15.9
S6	28 May 2019	Wave Height Low (ft)	3
S6	28 May 2019	High Tide (ft)	3.5
S6	28 May 2019	High Tide Time	536
S6	28 May 2019	Low Tide (ft)	0.8
S6	28 May 2019	Low Tide Time	
S6	28 May 2019	Comments	Kelp; Seagrass; Debris; 1 Person; Water clear
S8	01 May 2019	Arrive Time	1118
S8	01 May 2019	Weather	Partly Cloudy
S8	01 May 2019	Wind Speed (kts)	7.1
S8	01 May 2019	Wind Dir	NW
S8	01 May 2019	Animal Life	None
S8	01 May 2019	Floatables	None
S8	01 May 2019	Water Color	Green
S8	01 May 2019	Current Direction	Ν
S8	01 May 2019	Water Temp (C)	17.8
S8	01 May 2019	Wave Height Low (ft)	2
S8	01 May 2019	High Tide (ft)	4.2
S8	01 May 2019	High Tide Time	751
S8	01 May 2019	Low Tide (ft)	0.4
S8	01 May 2019	Low Tide Time	1403
S8	01 May 2019	Comments	Kelp; Seagrass; 2 Persons; Water clear
S8	07 May 2019	Arrive Time	1140
S8	07 May 2019	Weather	Partly Cloudy
S8	07 May 2019	Wind Speed (kts)	2
S8	07 May 2019	Wind Dir	W
S8	07 May 2019	Animal Life	None
S8	07 May 2019	Floatables	None
S8	07 May 2019	Water Color	Green
S8	07 May 2019	Current Direction	Ν
S8	07 May 2019	Water Temp (C)	18.1
S8	07 May 2019	Wave Height Low (ft)	3
S8	07 May 2019	High Tide (ft)	3.5
S8	07 May 2019	High Tide Time	1201
S8	07 May 2019	Low Tide (ft)	1.9
S8	07 May 2019	Low Tide Time	1651
S8	07 May 2019	Comments	Kelp; Seagrass; Water clear
S8	14 May 2019	Arrive Time	747
S8	14 May 2019	Weather	Overcast
S8	14 May 2019	Wind Speed (kts)	3.4
S8	14 May 2019	Wind Dir	E
S8	14 May 2019	Animal Life	None
S8	14 May 2019	Floatables	Foam
Station	Date	Parameter	Value
----------	-------------	----------------------	---
S8	14 May 2019	Water Color	Green
S8	14 May 2019	Current Direction	E
S8	14 May 2019	Water Temp (C)	20.4
S8	14 May 2019	Wave Height Low (ft)	2
S8	14 May 2019	High Tide (ft)	4.4
S8	14 May 2019	High Tide Time	616
S8	14 May 2019	Low Tide (ft)	-0.1
S8	14 May 2019	Low Tide Time	1245
S8	14 May 2019	Comments	Kelp; Seagrass; Water clear
	11 may 2010	Commonito	
S8	16 May 2019	Arrive Time	745
S8	16 May 2019	Weather	Overcast
S8	16 May 2019	Wind Speed (kts)	6.6
S8	16 May 2019	Wind Dir	N
S8	16 May 2019	Animal Life	2 Shorebirds
S8	16 May 2019	Floatables	Foam
S8	16 May 2019	Water Color	Green
S8	16 May 2019	Current Direction	N
S8	16 May 2019		19.1
		Water Temp (C)	
S8 S8	16 May 2019	Wave Height Low (ft)	3 4.5
	16 May 2019	High Tide (ft)	
S8	16 May 2019	High Tide Time	811
S8	16 May 2019	Low Tide (ft)	-0.1
S8	16 May 2019	Low Tide Time	219
S8	16 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Water clear
S8	21 May 2019	Arrive Time	1145
S8	21 May 2019	Weather	Partly Cloudy
S8	21 May 2019	Wind Speed (kts)	9.7
S8	21 May 2019	Wind Dir	W
S8	21 May 2019	Animal Life	None
S8	21 May 2019	Floatables	None
S8	21 May 2019	Water Color	Green
S8	21 May 2019	Current Direction	S
S8	21 May 2019	Water Temp (C)	17.2
S8	21 May 2019	Wave Height Low (ft)	3
S8	21 May 2019	High Tide (ft)	3.5
S8	21 May 2019	High Tide Time	1219
S8	21 May 2019	Low Tide (ft)	2.2
S8	21 May 2019	Low Tide Time	1703
S8	21 May 2019	Comments	Kelp; Seagrass; Water clear
S8	28 May 2019	Arrive Time	1009
S8	28 May 2019	Weather	Sunny
S8	28 May 2019	Wind Speed (kts)	3.6
S8	28 May 2019	Wind Dir	E
S8	28 May 2019	Animal Life	None
S8	28 May 2019	Floatables	None
S8	28 May 2019	Water Color	Green
S8	28 May 2019	Current Direction	E
S8	28 May 2019	Water Temp (C)	17.9
S8	28 May 2019	Wave Height Low (ft)	2
S8	28 May 2019	High Tide (ft)	3.5
S8	28 May 2019	High Tide Time	536
S8	28 May 2019	Low Tide (ft)	0.8
S8	28 May 2019	Low Tide Time	1201
S8	28 May 2019	Comments	Kelp; Seagrass; 15 Persons; Water clear
S9	01 May 2019	Arrive Time	1157
S9 S9	01 May 2019	Weather	Partly Cloudy
S9	01 May 2019	Wind Speed (kts)	6.8
	51 May 2013		

S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 High Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide fime 1651 S9 07 May 2019 Low Tide fime 730 S9 07 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Wind Dir S S9 14 May 2019 Wind Dir S S9 14 May 2019 Animal Life 13 Seagulls	Dat	0	Date		Parameter	Value
S9 01 May 2019 Animal Life 60 Seagulls S9 01 May 2019 Water Color Green S9 01 May 2019 Water Color Green S9 01 May 2019 Water Color N S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 High Tide Time 751 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Arrive Time 855 S9 03 May 2019 Water Color Green S9 03 May 2019 Vater Color Green S9 03 May 2019 Anima Life 22 Seagulls S9 03 May 2019 Vater High Tide (ft) 4.3 S9 03 May 2019 Current Direction E S9 03 May 2019 Low Tide (fth) 0.5	/lay	1 M	lay 2019	9		
S9 01 May 2019 Floatables None S9 01 May 2019 Water Color Green S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 Water High Tide (ft) 4.2 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp: Seagrass; 1 Person; Water clear S9 03 May 2019 Arrive Time 855 S0 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Temp (C) 18.2 S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tid					Animal Life	60 Seagulls
S9 01 May 2019 Water Color Green S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 Wave Height Low (ft) 2 S9 01 May 2019 Wave Height Low (ft) 2 S9 01 May 2019 High Tide Time 751 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp: Seagrass; 1 Person; Water clear S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 2 Seagulls S9 03 May 2019 Water Color Green S9 03 May 2019 Water Color E S9 03 May 2019 Water Time 18.2 S9 03 May 2019 Water Time 1905 S9 03 May 2019 Low Tide (ft) 0.5 S9 03 May 2019 Comments Res	/lay	1 M	1ay 2019	9		
S9 01 May 2019 Current Direction N S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 High Tide (ft) 4.2 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp. Seagrass; 1 Person; Water clear S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Mind Dir E S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1					Water Color	Green
S9 01 May 2019 Water Temp (C) 17.7 S9 01 May 2019 High Tide (th) 1.2 S9 01 May 2019 High Tide (th) 4.2 S9 01 May 2019 Low Tide (th) 0.4 S9 01 May 2019 Low Tide (th) 0.4 S9 01 May 2019 Low Tide Time 1403 S9 01 May 2019 Arrive Time 855 S9 03 May 2019 Wand Speed (kts) 1.7 S9 03 May 2019 Wand Fight Low (th) 1.7 S9 03 May 2019 Maint Life 22 Seaguilis S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Ware Height Low (th) 0.5 S9 03 May 2019 Low Tide (th) 0.1 S9 03 May 2019 Low Tide (th)						
S9 01 May 2019 Wave Height Low (ft) 2 S9 01 May 2019 High Tide (ft) 4.2 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp; Seagrass; 1 Person; Water clear S9 03 May 2019 Arrive Time 855 S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Floatables Foam S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Wate Height Low (ft) 0.5 S9 03 May 2019 Low Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) <	•		•			
S9 01 May 2019 High Tide Time 751 S9 01 May 2019 Low Tide (t) 0.4 S9 01 May 2019 Low Tide (t) 0.4 S9 01 May 2019 Low Tide Time 1403 S9 01 May 2019 Comments Kelp: Seagrass; 1 Person; Water clear S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Height Low (ft) 0.1 S9 03 May 2019 Water Time 308 S9 03 May 2019 Low Tide Time 308 S9 07 May 2019 Arrive Ti						
S9 01 May 2019 High Tide Time 751 S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp; Seagrass; 1 Person; Water clear S9 03 May 2019 Wind Time 855 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Time 905 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Wind Dir					- , ,	
S9 01 May 2019 Low Tide (ft) 0.4 S9 01 May 2019 Comments Kelp; Seagrass; 1 Person; Water clear S9 03 May 2019 Arrive Time 855 S9 03 May 2019 Weather Overcast S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Animal Life 22 Seagults S9 03 May 2019 Animal Life 22 Seagults S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Height Low (ft) 0.5 S9 03 May 2019 Low Tide Time 308 S9 07 May 2019 Wind Dir Vather S9 07 May 2019 Wind Dir Vather S9 07 May 2019 Vind Di	•		•			
S9 01 May 2019 01 May 2019 Low Tide Time Comments 1403 Kelp, Seagrass; 1 Person; Water clear S9 03 May 2019 Arrive Time Weather 855 0vercast S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Animal Life 22 Seaguils S9 03 May 2019 Animal Life 22 Seaguils S9 03 May 2019 Water Color Green S9 03 May 2019 Water Color Green S9 03 May 2019 Water Color Green S9 03 May 2019 Water Tomp (C) 18.2 S9 03 May 2019 Low Tide Time 905 S9 03 May 2019 Low Tide Time 905 S9 03 May 2019 Low Tide Time 1231 S9 03 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Wind Dir W S9 07 May 2019 Water Color Green S9 0					0	
S9 01 May 2019 Comments Kelp; Seagrass; 1 Person; Water clear S9 03 May 2019 Weather Overcast S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Vater Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Mind Speed (kts) 3.8 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Water Co	-		-		. ,	
S9 03 May 2019 Arrive Time 855 S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Wind Dir E S9 03 May 2019 Water Color Green S9 03 May 2019 Water Tomp (C) 18.2 S9 03 May 2019 Water Tomp (C) 18.2 S9 03 May 2019 Water Tomp (C) 18.2 S9 03 May 2019 Water Tome (ft) 0.5 S9 03 May 2019 Low Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wather 23.1 S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Arrive Time 13.8	•		•			
S9 03 May 2019 Weather Overcast S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Low Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Keigt Time 1231 S9 07 May 2019 Wather Parity Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Color Green S9 07 May 2019 Water Color	nay	1 101	lay 201	3	Commenta	Rep, Ocaylass, 11 clool, Water ocal
S9 03 May 2019 Weather Overcast S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Low Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Keigt Time 1231 S9 07 May 2019 Wather Parity Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Color Green S9 07 May 2019 Water Color	lav	зм	121 2010	م		855
S9 03 May 2019 Wind Speed (kts) 1.7 S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Water Color Green S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water temp (C) 18.2 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Wate						-
S9 03 May 2019 Wind Dir E S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Floatables Foam S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Wave Height Low (ft) 0.5 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 905 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Wind Dir W W S9 07 May 2019 Wind Dir W Seagulls S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Color Green S9 07 May 2019 Water Color Green S9<						
S9 03 May 2019 Animal Life 22 Seagulls S9 03 May 2019 Floatables Foam S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 High Tide (ft) 0.5 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Low Tide Time 1231 S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Mainal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Low Tide (ft) </td <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	-		-			
S9 03 May 2019 Floatables Foam S9 03 May 2019 Water Color Green S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Wind Dir W W S9 07 May 2019 Wind Dir W W S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Water Color Green Green S9 07 May 2019 Water Tomp (C) 17.4 S5	•		•			
S9 03 May 2019 Water Color Green S9 03 May 2019 Current Direction E S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Dir W S9 07 May 2019 Wind Dir W S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019						•
S9 03 May 2019 Current Direction E S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 Wave Height Low (ft) 0.5 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Dir W S9 07 May 2019 Wind Dir W S9 07 May 2019 High Tide Time 1 Shorebird; 6 Seagulls S9 07 May 2019 Gurrent Direction N S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019						
S9 03 May 2019 Water Temp (C) 18.2 S9 03 May 2019 High Tide (ft) 0.5 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Dir W S9 07 May 2019 Wind Dir W S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (-
S9 03 May 2019 Wave Height Low (ft) 0.5 S9 03 May 2019 High Tide (ft) 4.3 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07						
S9 03 May 2019 Wight Tide (ft) 4.3 S9 03 May 2019 03 May 2019 Uow Tide (ft) 905 0.1 S9 03 May 2019 03 May 2019 03 May 2019 Uow Tide Time S9 0.1 S9 03 May 2019 03 May 2019 03 May 2019 S9 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 9 Arrive Time Weather 1231 Partly Cloudy S9 07 May 2019 9 Wind Speed (kts) 9 3.8 S9 07 May 2019 9 Mimal Life Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 9 Water Color Green S9 07 May 2019 9 Water Temp (C) 17.4 S9 07 May 2019 9 Water Temp (C) 17.4 S9 07 May 2019 9 High Tide Time 1201 1201 S9 07 May 2019 9 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td></td>	•		•			
S9 03 May 2019 High Tide Time 905 S9 03 May 2019 Low Tide (ft) 0.1 308 S9 03 May 2019 Low Tide Time 308 Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Arrive Time 1231 Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 W S9 07 May 2019 Mind Speed (kts) 3.8 None S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls None S9 07 May 2019 Vater Color Green None S9 07 May 2019 Water Temp (C) 17.4 2 S9 07 May 2019 Water Temp (C) 17.4 2 S9 07 May 2019 Water Temp (C) 17.4 2 S9 07 May 2019 Low Tide Time 1201 2 S9 07 May 2019 Low Tide Time 1201 2 S9 07 May 2019 Low Tide Time 1651 2						
S9 03 May 2019 Low Tide (ft) 0.1 S9 03 May 2019 Low Tide Time 308 S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Minimal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 Low Tide Time 1201 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
S9 03 May 2019 Low Tide Time Comments 308 S9 03 May 2019 Comments 308 S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Eloatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019	-		-			
S9 03 May 2019 Comments Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Wate S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Current Direction N S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 Low Tide Time 1201 S9 07 May 2019 Low Tide Time 1651 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 Wind Speed (kts) 2.1 <td>•</td> <td></td> <td>•</td> <td></td> <td>. ,</td> <td></td>	•		•		. ,	
S9 07 May 2019 Arrive Time 1231 S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Mimal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 High Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 May Colle Comments S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Wind Dir S S9 14 May 2019 Wind Speed (kts) 2.1						308
S907 May 2019WeatherPartly CloudyS907 May 2019Wind Speed (kts)3.8S907 May 2019Wind DirWS907 May 2019Animal Life1 Shorebird; 6 SeagullsS907 May 2019FloatablesNoneS907 May 2019Water ColorGreenS907 May 2019Water ColorGreenS907 May 2019Water Temp (C)17.4S907 May 2019Water Height Low (ft)2S907 May 2019High Tide (ft)3.5S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time730S914 May 2019Wind DirSS914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Water ColorGreenS914 May 2019Water ColorGreenS914 May 2019Water Temp (C)20.3	/lay	3 M	lay 2019	9	Comments	Resample; Kelp; Seagrass; 9 Persons; 8 Surfers; Water clea
S9 07 May 2019 Weather Partly Cloudy S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Water Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide filme 1651 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 Arrive Time 730 S9 14 May 2019 Wind Dir S S9 14 May 2019	4	- • •			A	1001
S9 07 May 2019 Wind Speed (kts) 3.8 S9 07 May 2019 Wind Dir W S9 07 May 2019 Animal Life 1 Shorebird; 6 Seagulls S9 07 May 2019 Floatables None S9 07 May 2019 Water Color Green S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide Time 1651 S9 07 May 2019 Wather Overcast S9 14 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Animal Life						
S907 May 2019Wind DirWS907 May 2019Animal Life1 Shorebird; 6 SeagullsS907 May 2019FloatablesNoneS907 May 2019Water ColorGreenS907 May 2019Water Temp (C)17.4S907 May 2019Water Temp (C)17.4S907 May 2019Water Temp (C)17.4S907 May 2019Wave Height Low (ft)2S907 May 2019High Tide (ft)3.5S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019WeatherOvercastS914 May 2019Wind DirSS914 May 2019Floatables13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Water Temp (C)20.3						
S907 May 2019Animal Life1 Shorebird; 6 SeagullsS907 May 2019FloatablesNoneS907 May 2019Water ColorGreenS907 May 2019Current DirectionNS907 May 2019Water Temp (C)17.4S907 May 2019Wave Height Low (ft)2S907 May 2019High Tide (ft)3.5S907 May 2019High Tide Time1201S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide Time1651S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind Speed (kts)2.1S914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Water Temp (C)20.3						
S907 May 2019FloatablesNoneS907 May 2019Water ColorGreenS907 May 2019Current DirectionNS907 May 2019Water Temp (C)17.4S907 May 2019Wave Height Low (ft)2S907 May 2019High Tide (ft)3.5S907 May 2019High Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide (ft)1.9S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019Koter ColorGreenS914 May 2019Koter ColorGreenS914 May 2019Water Temp (C)20.3						
S9 07 May 2019 Water Color Green S9 07 May 2019 Current Direction N S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide Time 1651 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 Arrive Time 730 S9 14 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Floatables Foam S9 14 May 2019 Water Color Green S9 14 May 2019	-		-			-
S9 07 May 2019 Current Direction N S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 High Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide Time 1651 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 Arrive Time 730 S9 14 May 2019 Weather Overcast S9 14 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Mind Dir S S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Floatables Foam S9 14 May 2019 Water Color Green S9 14 May 2019 Water Color Green S9 14 May 2019 Wate						
S9 07 May 2019 Water Temp (C) 17.4 S9 07 May 2019 Wave Height Low (ft) 2 S9 07 May 2019 High Tide (ft) 3.5 S9 07 May 2019 High Tide (ft) 1.9 S9 07 May 2019 Low Tide (ft) 1.9 S9 07 May 2019 Low Tide Time 1651 S9 07 May 2019 Comments Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear S9 14 May 2019 Arrive Time 730 S9 14 May 2019 Weather Overcast S9 14 May 2019 Wind Speed (kts) 2.1 S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Animal Life 13 Seagulls S9 14 May 2019 Floatables Foam S9 14 May 2019 Vind Dir S S9 14 May 2019 Vind Clor Green S9 14 May 2019 Vater Color Green S9 14 May 2019 Current Direction S S9 14 May 2019 Vater Temp (•		•			
S907 May 2019Wave Height Low (ft)2S907 May 2019High Tide (ft)3.5S907 May 2019High Tide Time1201S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide Time1651S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Kater ColorGreenS914 May 2019Water ColorSS914 May 2019Water Temp (C)20.3						
S907 May 2019High Tide (ft)3.5S907 May 2019High Tide Time1201S907 May 2019Low Tide (ft)1.9S907 May 2019Low Tide Time1651S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Kater ColorGreenS914 May 2019Water ColorSS914 May 2019Water Temp (C)20.3					,	
S907 May 2019 S9High Tide Time Low Tide (ft)1201 1.9S907 May 2019 O7 May 2019Low Tide (ft) Low Tide Time Comments1.9 1651 Kelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019 S9Arrive Time Weather730 OvercastS914 May 2019 Vind Speed (kts)Veather SOvercast SS914 May 2019 Vind Speed (kts)2.1 SS914 May 2019 Vind Dir S9SS914 May 2019 Vind Dir SSS914 May 2019 Vind Dir FloatablesTa Seagulls Foam GreenS914 May 2019 Viater Color S9Floatables SS914 May 2019 Viater Color S9Foam SS914 May 2019 Viater Color SSS914 May 2019 Viater Temp (C)S	•		•			
S907 May 2019 S9Low Tide (ft) Low Tide Time Comments1.9S907 May 2019Low Tide Time Comments1651 Kelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time Weather730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts) Wind Dir2.1S914 May 2019Wind Dir FloatablesSS914 May 2019Wind Dir FloatablesSS914 May 2019Wind Dir FloatablesSS914 May 2019Kater Color GreenGreenS914 May 2019Water Color SSS914 May 2019Water Temp (C)20.3						
S907 May 2019 S9Low Tide Time Comments1651 Kelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019 S9Arrive Time Weather730 OvercastS914 May 2019 Vind Speed (kts)Overcast SS914 May 2019 Wind Speed (kts)2.1 SS914 May 2019 Vind Dir S9Wind Dir SS914 May 2019 Vind Dir Floatables730 SeagullsS914 May 2019 Vind Dir S9SeagullsS914 May 2019 Vind Dir S9Floatables S9S914 May 2019 Viater Color S9Foam Green SS914 May 2019 Viater Color S9SeagullsS914 May 2019 Viater Color S9SeagullsS914 May 2019 Viater Color S9SeagullsS914 May 2019 Viater Color S9SeagullsS914 May 2019 Viater Temp (C)Seagulls						
S907 May 2019CommentsKelp; Seagrass; 2 Joggers; 3 Persons; Water clearS914 May 2019Arrive Time730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Wind ClorGreenS914 May 2019Water ColorGreenS914 May 2019Water Temp (C)20.3						
S914 May 2019Arrive Time730S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Wind ClorGreenS914 May 2019Water ColorGreenS914 May 2019Water Temp (C)20.3	-		-			
S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3	/lay	7 M	lay 2019	9	Comments	Kelp; Seagrass; 2 Joggers; 3 Persons; Water clear
S914 May 2019WeatherOvercastS914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3	1.5				A muis de Time -	720
S914 May 2019Wind Speed (kts)2.1S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3	•		•			
S914 May 2019Wind DirSS914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3						
S914 May 2019Animal Life13 SeagullsS914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3						
S914 May 2019FloatablesFoamS914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3						
S914 May 2019Water ColorGreenS914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3						-
S914 May 2019Current DirectionSS914 May 2019Water Temp (C)20.3						_
S9 14 May 2019 Water Temp (C) 20.3	-		-			
S9 14 May 2019 Wave Height low (ft) 2						
					Wave Height Low (ft)	2
S9 14 May 2019 High Tide (ft) 4.4	-		-		,	
S9 14 May 2019 High Tide Time 616	•		•			
S9 14 May 2019 Low Tide (ft) -0.1						
S9 14 May 2019 Low Tide Time 1245					Low Tide Time	
S9 14 May 2019 Comments Kelp; Seagrass; 13 Surfers; Water clear	/lay	4 M	lay 2019	9	Comments	Kelp; Seagrass; 13 Surfers; Water clear

Station	Date	Parameter	Value
S9	21 May 2019	Arrive Time	1225
S9	21 May 2019	Weather	Partly Cloudy
S9	21 May 2019	Wind Speed (kts)	8.3
S9	21 May 2019	Wind Dir	W
S9	21 May 2019	Animal Life	None
S9	21 May 2019	Floatables	None
S9	21 May 2019	Water Color	Green
S9	21 May 2019	Current Direction	S
S9	21 May 2019	Water Temp (C)	17
S9	21 May 2019	Wave Height Low (ft)	2
S9	21 May 2019	High Tide (ft)	3.5
S9	21 May 2019	High Tide Time	1219
S9 S9	21 May 2019 21 May 2019	-	2.2
	•	Low Tide (ft)	
S9	21 May 2019	Low Tide Time	1703 Kalas Saarraas E Daraanas Wetan alaan
S9	21 May 2019	Comments	Kelp; Seagrass; 5 Persons; Water clear
	00.14	• · - :	1000
S9	28 May 2019	Arrive Time	1036
S9	28 May 2019	Weather	Sunny
S9	28 May 2019	Wind Speed (kts)	7.1
S9	28 May 2019	Wind Dir	E
S9	28 May 2019	Animal Life	35 Seagulls
S9	28 May 2019	Floatables	None
S9	28 May 2019	Water Color	Green
S9	28 May 2019	Current Direction	E
S9	28 May 2019	Water Temp (C)	19.7
S9	28 May 2019	Wave Height Low (ft)	1
S9	28 May 2019	High Tide (ft)	3.5
S9	28 May 2019	High Tide Time	536
S9	28 May 2019	Low Tide (ft)	0.8
S9	28 May 2019	Low Tide Time	1201
S9	28 May 2019	Comments	Kelp; Seagrass; 40 Persons; Water clear
	-		
S10	01 May 2019	Arrive Time	810
S10	01 May 2019	Weather	Cloudy
S10	01 May 2019	Wind Speed (kts)	3.8
S10	01 May 2019	Wind Dir	W
S10	01 May 2019	Animal Life	None
S10	01 May 2019	Floatables	None
S10	01 May 2019	Water Color	Green
S10	01 May 2019	Current Direction	Ν
S10	01 May 2019	Water Temp (C)	17.1
S10	01 May 2019	Wave Height Low (ft)	3
S10	01 May 2019	High Tide (ft)	4.2
S10	01 May 2019	High Tide Time	751
S10	01 May 2019	Low Tide (ft)	0.4
S10	01 May 2019	Low Tide Time	1403
S10	01 May 2019	Comments	Kelp; Seagrass; Water clear
	,		
S10	07 May 2019	Arrive Time	900
S10	07 May 2019	Weather	Partly Cloudy
S10	07 May 2019	Wind Speed (kts)	1.5
S10	07 May 2019	Wind Dir	W
S10	07 May 2019	Animal Life	None
S10	07 May 2019	Floatables	None
S10	07 May 2019	Water Color	Green
S10	07 May 2019	Current Direction	N
S10	07 May 2019	Water Temp (C)	17.5
S10	07 May 2019	Wave Height Low (ft)	3
S10	07 May 2019 07 May 2019	High Tide (ft)	3.5
S10	07 May 2019 07 May 2019	High Tide Time	1201
S10	07 May 2019 07 May 2019	Low Tide (ft)	-0.6
010	51 May 2013		0.0

Station	Date	Parameter	Value
S10	07 May 2019	Low Tide Time	542
S10	07 May 2019	Comments	Kelp; Seagrass; Water clear
S10	14 May 2019	Arrive Time	1029
S10	14 May 2019	Weather	Partly Cloudy
S10	14 May 2019	Wind Speed (kts)	5.2
S10	14 May 2019	Wind Dir	E
S10	14 May 2019	Animal Life	1 Cormorant; 16 Grebes; 3 Horses
S10	14 May 2019	Floatables	None
S10	14 May 2019	Water Color	Green
S10	14 May 2019	Current Direction	E
S10	14 May 2019	Water Temp (C)	21.4
S10	14 May 2019	Wave Height Low (ft)	2
S10	14 May 2019	High Tide (ft)	4.4
S10	14 May 2019	High Tide Time	616
S10	14 May 2019	Low Tide (ft)	-0.1
S10	14 May 2019	Low Tide Time	1245
S10	14 May 2019	Comments	Kelp; Seagrass; Debris; 3 Persons; Water clear
510	14 May 2019	Comments	Nelp, Seagrass, Deblis, 51 ersons, Water clear
S10	21 May 2019	Arrive Time	858
S10	21 May 2019 21 May 2019	Weather	Cloudy
	21 May 2019		11.2
S10	•	Wind Speed (kts)	W
S10	21 May 2019	Wind Dir	
S10	21 May 2019	Animal Life	None
S10	21 May 2019	Floatables	None
S10	21 May 2019	Water Color	Green
S10	21 May 2019	Current Direction	S
S10	21 May 2019	Water Temp (C)	16
S10	21 May 2019	Wave Height Low (ft)	3
S10	21 May 2019	High Tide (ft)	3.5
S10	21 May 2019	High Tide Time	1219
S10	21 May 2019	Low Tide (ft)	-0.7
S10	21 May 2019	Low Tide Time	554
S10	21 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
0.40	00.14 00.40	A ·	0.50
S10	23 May 2019	Arrive Time	958
S10	23 May 2019	Weather	Partly Cloudy
S10	23 May 2019	Wind Speed (kts)	5.6
S10	23 May 2019	Wind Dir	E
S10	23 May 2019	Animal Life	None
S10	23 May 2019	Floatables	Foam
S10	23 May 2019	Water Color	Green
S10	23 May 2019	Current Direction	E
S10	23 May 2019	Water Temp (C)	18.1
S10	23 May 2019	Wave Height Low (ft)	5
S10	23 May 2019	High Tide (ft)	3.2
S10	23 May 2019	High Tide Time	1432
S10	23 May 2019	Low Tide (ft)	-0.1
S10	23 May 2019	Low Tide Time	732
S10	23 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Water clear
	-		
S10	25 May 2019	Arrive Time	736
S10	25 May 2019	Weather	Partly Cloudy
S10	25 May 2019	Wind Speed (kts)	1.7
S10	25 May 2019	Wind Dir	N
S10	25 May 2019	Animal Life	None
S10	25 May 2019	Floatables	None
S10	25 May 2019	Water Color	Green
S10	25 May 2019	Current Direction	N
S10	25 May 2019	Water Temp (C)	16.3
S10	25 May 2019	Wave Height Low (ft)	3
010	20 May 2019		•

Station	Date	Parameter	Value
S10	25 May 2019	High Tide (ft)	4
S10	25 May 2019	High Tide Time	136
S10	25 May 2019	Low Tide (ft)	0.5
S10	25 May 2019	Low Tide Time	930
S10	25 May 2019	Comments	Resample; Kelp; Seagrass; Debris; Water clear
	20 may 2010	Commonito	
S10	28 May 2019	Arrive Time	728
S10	28 May 2019	Weather	Sunny
S10	28 May 2019	Wind Speed (kts)	4.6
S10	28 May 2019	Wind Dir	W
S10	28 May 2019	Animal Life	1 Pelican
S10	28 May 2019	Floatables	Foam
S10	28 May 2019	Water Color	Green
S10	28 May 2019	Current Direction	W
1 1			15.9
S10	28 May 2019	Water Temp (C)	
S10	28 May 2019	Wave Height Low (ft)	3
S10	28 May 2019	High Tide (ft)	3.5
S10	28 May 2019	High Tide Time	536
S10	28 May 2019	Low Tide (ft)	0.8
S10	28 May 2019	Low Tide Time	1201
S10	28 May 2019	Comments	Kelp; Seagrass; Debris; Water clear
S11	01 May 2019	Arrive Time	936
S11	01 May 2019	Weather	Cloudy
S11	01 May 2019	Wind Speed (kts)	4.4
S11	01 May 2019	Wind Dir	NW
S11	01 May 2019	Animal Life	None
S11	01 May 2019	Floatables	None
S11	01 May 2019	Water Color	Green
S11	01 May 2019	Current Direction	Ν
S11	01 May 2019	Water Temp (C)	17.9
S11	01 May 2019	Wave Height Low (ft)	3
S11	01 May 2019	High Tide (ft)	4.2
S11	01 May 2019	High Tide Time	751
S11	01 May 2019	Low Tide (ft)	0.4
S11	01 May 2019	Low Tide Time	1403
S11	01 May 2019	Comments	Water clear
	-		
S11	07 May 2019	Arrive Time	1028
S11	07 May 2019	Weather	Partly Cloudy
S11	07 May 2019	Wind Speed (kts)	2.2
S11	07 May 2019	Wind Dir	W
S11	07 May 2019	Animal Life	None
S11	07 May 2019	Floatables	None
S11	07 May 2019	Water Color	Green
S11	07 May 2019	Current Direction	N
S11	07 May 2019	Water Temp (C)	17.8
S11	07 May 2019	Wave Height Low (ft)	3
S11	07 May 2019	High Tide (ft)	3.5
S11	07 May 2019	High Tide Time	1201
S11	07 May 2019 07 May 2019	Low Tide (ft)	-0.6
S11	07 May 2019 07 May 2019	Low Tide Time	542
S11	07 May 2019 07 May 2019	Comments	Kelp; Seagrass; Water clear
	57 may 2019	Commonta	
S11	14 May 2019	Arrive Time	909
S11	14 May 2019	Weather	Overcast
S11	-		5.2
S11 S11	14 May 2019	Wind Speed (kts) Wind Dir	5.2 E
S11 S11	14 May 2019		
	14 May 2019	Animal Life	None
S11	14 May 2019	Floatables Water Color	Foam
S11	14 May 2019	Water Color	Green

Station	Date	Parameter	Value
S11	14 May 2019	Current Direction	W
S11	14 May 2019	Water Temp (C)	21.7
S11	14 May 2019	Wave Height Low (ft)	3
S11	14 May 2019	High Tide (ft)	4.4
S11	14 May 2019	High Tide Time	616
S11	14 May 2019	Low Tide (ft)	-0.1
S11	14 May 2019	Low Tide Time	1245
S11	14 May 2019	Comments	Kelp; Seagrass; Debris; 1 Person; Water clear
511	14 May 2013	Comments	Neip, Seagrass, Debris, 11 erson, Water Clear
S11	21 May 2019	Arrive Time	1003
S11	21 May 2019	Weather	Cloudy
S11	21 May 2019	Wind Speed (kts)	11.1
S11	21 May 2019	Wind Dir	W
S11	21 May 2019	Animal Life	None
S11	21 May 2019	Floatables	None
S11	21 May 2019	Water Color	Green
S11	21 May 2019	Current Direction	S
	•	-	
S11	21 May 2019	Water Temp (C)	15.6
S11	21 May 2019	Wave Height Low (ft)	3
S11	21 May 2019	High Tide (ft)	3.5
S11	21 May 2019	High Tide Time	1219
S11	21 May 2019	Low Tide (ft)	-0.7
S11	21 May 2019	Low Tide Time	554
S11	21 May 2019	Comments	Kelp; Seagrass; Water clear
011	29 May 2010	Arriva Time	950
S11	28 May 2019	Arrive Time	852
S11	28 May 2019	Weather	Sunny
S11	28 May 2019	Wind Speed (kts)	2.3
S11	28 May 2019	Wind Dir	N
S11	28 May 2019	Animal Life	None
S11	28 May 2019	Floatables	Foam
S11	28 May 2019	Water Color	Green
S11	28 May 2019	Current Direction	Ν
S11	28 May 2019	Water Temp (C)	16.2
S11	28 May 2019	Wave Height Low (ft)	3
S11	28 May 2019	High Tide (ft)	3.5
S11	28 May 2019	High Tide Time	536
S11	28 May 2019	Low Tide (ft)	0.8
S11	-	Low Tide Time	1201
S11	28 May 2019 28 May 2019	Comments	Kelp; Seagrass; Debris; 1 Jogger; 1 Person; Water clear
311	20 May 2019	Comments	Neip, Seagrass, Debris, 1 Jogger, 1 Person, Water clear
S12	01 May 2019	Arrive Time	951
S12	01 May 2019	Weather	Cloudy
S12	01 May 2019	Wind Speed (kts)	4.6
S12	01 May 2019	Wind Dir	NW
S12	01 May 2019	Animal Life	None
S12	01 May 2019	Floatables	None
S12 S12	01 May 2019	Water Color	
S12 S12	01 May 2019 01 May 2019		Green
		Current Direction	N 18-2
S12	01 May 2019	Water Temp (C)	18.2
S12	01 May 2019	Wave Height Low (ft)	3
S12	01 May 2019	High Tide (ft)	4.2
S12	01 May 2019	High Tide Time	751
S12	01 May 2019	Low Tide (ft)	0.4
S12	01 May 2019	Low Tide Time	1403
S12	01 May 2019	Comments	Kelp; Seagrass; Water clear
S12	03 May 2010	Arrive Time	819
	03 May 2019		
S12	03 May 2019	Weather	Overcast
S12	03 May 2019	Wind Speed (kts)	2.3
S12	03 May 2019	Wind Dir	W

S12 S12 S12	Date 03 May 2019 03 May 2019 03 May 2019	Parameter Animal Life Floatables	Value 10 Cormorants; 5 Grebes
S12 S12 S12	03 May 2019		
S12 S12			Foam
S12		Water Color	Green
	03 May 2019	Current Direction	W
610			
	03 May 2019	Water Temp (C)	16.8
S12	03 May 2019	Wave Height Low (ft)	2
	03 May 2019	High Tide (ft)	4.3
	03 May 2019	High Tide Time	905
S12	03 May 2019	Low Tide (ft)	0.1
	03 May 2019	Low Tide Time	308
S12	03 May 2019	Comments	Resample; Kelp; Seagrass; 3 Persons; Water clear
S12	05 May 2019	Arrive Time	725
S12	05 May 2019	Weather	Overcast
1	05 May 2019	Wind Speed (kts)	2.1
1	05 May 2019	Wind Dir	N
1	05 May 2019	Animal Life	None
S12	05 May 2019	Floatables	None
	05 May 2019	Water Color	Green
	05 May 2019	Current Direction	N
S12	05 May 2019	Water Temp (C)	17.3
S12	05 May 2019	Wave Height Low (ft)	1
S12	05 May 2019	High Tide (ft)	4
1	05 May 2019	High Tide Time	1024
	05 May 2019	Low Tide (ft)	-0.5
	05 May 2019	Low Tide Time	419
1	•		
S12	05 May 2019	Comments	Resample; Seagrass; 2 Persons; 5 Fishermen; Water clear
S12	07 May 2019	Arrive Time	1101
S12	07 May 2019	Weather	Partly Cloudy
S12	07 May 2019	Wind Speed (kts)	1.3
	07 May 2019	Wind Dir	W
1	07 May 2019	Animal Life	2 Seagulls
1 1	07 May 2019	Floatables	None
	07 May 2019	Water Color	Green
1			
	07 May 2019	Current Direction	N
	07 May 2019	Water Temp (C)	17.4
	07 May 2019	Wave Height Low (ft)	2
S12	07 May 2019	High Tide (ft)	3.5
S12	07 May 2019	High Tide Time	1201
S12	07 May 2019	Low Tide (ft)	-0.6
	07 May 2019	Low Tide Time	542
1	07 May 2019	Comments	Kelp; Seagrass; 4 Persons; Water clear
S12	14 May 2019	Arrive Time	804
S12	14 May 2019	Weather	Overcast
S12	14 May 2019	Wind Speed (kts)	3.6
S12	14 May 2019	Wind Dir	S
S12	14 May 2019	Animal Life	1 Dog; 15 Grebes
S12	14 May 2019	Floatables	Foam
S12	14 May 2019	Water Color	Green
S12	14 May 2019	Current Direction	S
S12	14 May 2019	Water Temp (C)	20.8
S12	14 May 2019	Wave Height Low (ft)	2
S12	14 May 2019	High Tide (ft)	4.4
S12	14 May 2019	High Tide Time	616
S12	14 May 2019	Low Tide (ft)	-0.1
S12	14 May 2019	Low Tide Time	1245
S12	14 May 2019	Comments	Kelp; Seagrass; 2 Persons; 2 Fishermen; Water clear
S12	16 May 2019	Arrive Time	759

Station	Date	Parameter	Value
S12	16 May 2019	Weather	Overcast
S12	16 May 2019	Wind Speed (kts)	2.9
S12	16 May 2019	Wind Dir	Ν
S12	16 May 2019	Animal Life	1 Dog
S12	16 May 2019	Floatables	Foam
S12	16 May 2019	Water Color	Green
S12	16 May 2019	Current Direction	Ν
S12	16 May 2019	Water Temp (C)	18.7
S12	16 May 2019	Wave Height Low (ft)	3
S12	16 May 2019	High Tide (ft)	4.5
S12	16 May 2019	High Tide Time	811
S12	16 May 2019	Low Tide (ft)	-0.1
S12	16 May 2019	Low Tide Time	219
S12	16 May 2019	Comments	Resample; Kelp; Seagrass; Debris; 4 Persons; 3 Fishermen;
	5		Water clear
S12	21 May 2019	Arrive Time	1014
S12	21 May 2019	Weather	Cloudy
S12	21 May 2019	Wind Speed (kts)	9.6
S12	21 May 2019	Wind Dir	W
S12	21 May 2019	Animal Life	1 Dog
S12	21 May 2019	Floatables	None
S12	21 May 2019	Water Color	Green
S12	21 May 2019	Current Direction	SW
S12	21 May 2019	Water Temp (C)	16.9
S12	21 May 2019	Wave Height Low (ft)	3
S12	21 May 2019	High Tide (ft)	3.5
S12	21 May 2019	High Tide Time	1219
S12	21 May 2019	Low Tide (ft)	-0.7
S12	21 May 2019	Low Tide Time	554
S12	21 May 2019	Comments	Kelp; Seagrass; 1 Person; Water clear
S12	28 May 2019	Arrive Time	909
S12	28 May 2019	Weather	Partly Cloudy
S12	28 May 2019	Wind Speed (kts)	3.7
S12 S12	28 May 2019	Wind Opeed (Kis) Wind Dir	5.7 N
S12 S12	28 May 2019	Animal Life	10 Dogs
S12	28 May 2019	Floatables	None
S12 S12	28 May 2019	Water Color	Green
S12 S12		Current Direction	N
S12 S12	28 May 2019 28 May 2019	Water Temp (C)	17.8
S12 S12	28 May 2019	Wave Height Low (ft)	2
S12 S12	28 May 2019	High Tide (ft)	3.5
S12 S12	28 May 2019	High Tide Time	536
S12 S12	28 May 2019	Low Tide (ft)	0.8
S12 S12	28 May 2019	Low Tide Time	1201
S12 S12	28 May 2019	Comments	Kelp; Seagrass; 6 Persons; Water clear
	20 May 2019	Comments	ונטף, טנמטומסס, ט ו פוסטווס, אימוכו טובמו



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	140
01 May 2019	37	28	9	5	3	2	9
02 May 2019	37	28	9	5	3	2	9
03 May 2019	15*	20*	6*	5*	4*	2*	6*
04 May 2019	15*	20*	6*	5*	4*	2*	6*
05 May 2019	15*	20*	6*	5*	4*	2*	6*
06 May 2019	10	13	5	5	5	2	5
07 May 2019	10	13	5	5	5	2	5
08 May 2019	10*	12*	6*	6*	6*	2*	6*
09 May 2019	10*	12*	6*	6*	6*	2*	6*
10 May 2019	10*	12*	6*	6*	6*	2*	6*
11 May 2019	10*	12*	6*	6*	6*	2*	6*
12 May 2019	10*	12*	6*	6*	6*	2*	6*
13 May 2019	7	9	5	5	13	2	17
14 May 2019	7	9	5	5	13	2	17
15 May 2019	9*	14*	6*	6*	22*	2*	27*
16 May 2019	9*	14*	6*	6*	22*	2*	27*
17 May 2019	9*	14*	6*	6*	22*	2*	27*
18 May 2019	9*	14*	6*	6*	22*	2*	27*
19 May 2019	9*	14*	6*	6*	22*	2*	27*
20 May 2019	9*	14*	6*	6*	22*	2*	27*
21 May 2019	9*	14*	6*	6*	22*	2*	27*
22 May 2019	9*	14*	6*	6*	22*	2*	27*
23 May 2019	25*	6*	6*	10*	22*	3*	70*
24 May 2019	25*	6*	6*	10*	22*	3*	70*
25 May 2019	25*	6*	6*	10*	22*	3*	70*
26 May 2019	25*	6*	6*	10*	22*	3*	70*
27 May 2019	25*	6*	6*	10*	22*	3*	70*
28 May 2019	25*	6*	6*	10*	22*	3*	70*
29 May 2019	51	12	11	12	13	3	80
30 May 2019	37*	7*	6*	7*	12*	3*	87*
31 May 2019	37*	7*	6*	7*	12*	3*	87*

* 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	140
01 May 2019	9	5	4	2	2	2	3
02 May 2019	9	5	4	2	2	2	3
03 May 2019	4*	3*	3*	2*	2*	2*	3*
04 May 2019	4*	3*	3*	2*	2*	2^	3*
05 May 2019	4*	3*	3*	2*	2*	2*	3*
06 May 2019	3	3	3 3	2 2	2 2	2 2	3
07 May 2019	3	3	3	2	2	2	3
08 May 2019	3*	3*	3*	2*	3*	2*	3*
09 May 2019	3*	3*	3*	2*	3*	2*	3*
10 May 2019	3*	3*	3*	2*	3*	2*	3*
11 May 2019	3*	3*	3*	2*	3*	2*	3*
12 May 2019	3*	3*	3*	2*	3*	2*	3*
13 May 2019	3	3	3	2 2	5	2 2	6
14 May 2019	3	3	3	2	5	2	6
15 May 2019	3*	3*	3*	2*	6*	2*	8*
16 May 2019	3*	3*	3*	2*	6*	2*	8*
17 May 2019	3*	3*	3*	2*	6*	2*	8*
18 May 2019	3*	3*	3*	2*	6*	2*	8*
19 May 2019	3*	3*	3*	2* 2* 2*	6*	2*	8*
20 May 2019	3*	3*	3*	2*	6*	2*	8*
21 May 2019	3*	3*	3*	2*	6*	2*	8*
22 May 2019	3*	3*	3*	2*	6*	2*	8*
23 May 2019	10*	3*	3*	3*	6*	2*	18*
24 May 2019	10*	3*	3*	3*	6*	2*	18*
25 May 2019	10*	3*	3*	3*	6*	2*	18*
26 May 2019	10*	3*	3*	3*	6*	2*	18*
27 May 2019	10*	3*	3*	3*	6*	2*	18*
28 May 2019	10*	3*	3*	3*	6*	2*	18*
29 May 2019	17	6	5	3	5	2	18
30 May 2019	16*	6*	4*	3*	6*	2 2*	24*
31 May 2019	16*	6*	4*	3*	6*	2*	24*

* 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 May 2019	6	3	3	2 2	2 2	2 2	3
02 May 2019	6	3	3	2	2	2	3
03 May 2019	3*	3*	3*	3*	2*	2*	3*
04 May 2019	3*	3*	3*	3*	2* 2*	2*	3*
05 May 2019	3*	3*	3*	3*	2*	2* 2* 2 2 2* 2* 2* 2* 2* 2* 2*	3*
06 May 2019	3 3	3	3 3	2 2	2 2 2*	2	3 3
07 May 2019	3	3	3	2	2	2	3
08 May 2019	3*	3*	3*	3*	2*	2*	3*
09 May 2019	3*	3*	3*	3*	2* 2*	2*	3*
10 May 2019	3*	3*	3*	3*	2*	2*	3*
11 May 2019	3*	3*	3*	3*	2*	2*	3*
12 May 2019	3*	3*	3*	3*	2*	2*	3*
13 May 2019	3 3	3	3	2 2	2	2	4
14 May 2019	3	3	3	2	2 2*	2	4
15 May 2019	3*	3*	3*	3*	2*	2*	4*
16 May 2019	3*	3*	3*	3*	2*	2*	4*
17 May 2019	3*	3*	3*	3*	2*	2*	4*
18 May 2019	3*	3*	3*	3*	2*	2*	4*
19 May 2019	3*	3*	3*	3*	2*	2*	4*
20 May 2019	3*	3*	3*	3*	2*	2*	4*
21 May 2019	3*	3*	3*	3*	2*	2*	4*
22 May 2019	3*	3*	3*	3*	2* 2* 2* 2* 2* 2* 2* 2*	2*	4*
23 May 2019	4*	3*	3*	3*	2*	2*	5*
24 May 2019	4*	3*	3*	3*	2* 2* 2*	2*	5*
25 May 2019	4*	3*	3*	3*	2*	2*	5*
26 May 2019	4*	3*	3*	3*	2*	2*	5*
27 May 2019	4*	3*	3*	3*	2* 2*	2*	5*
28 May 2019	4*	3*	3*	3*	2*	2*	5*
29 May 2019	5	2	3	2	2	2	4
30 May 2019	4*	2*	2*	2 2*	2 2*	2 2* 2* 2* 2* 2* 2* 2* 2* 2* 2* 2* 2* 2*	4*
31 May 2019	4*	2*	2*	2*	2*	2*	4*

* 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
06 May 2019	IC						
13 May 2019	IC						
23 May 2019	IC						
29 May 2019	IC						

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
06 May 2019	IC						
13 May 2019	IC						
23 May 2019	IC						
29 May 2019	IC						

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
06 May 2019	IC						
13 May 2019	IC						
23 May 2019	IC						
29 May 2019	IC						

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	119	124	125	126	132	139	140
06 May 2019	IC						
13 May 2019	IC						
23 May 2019	E	IC	IC	IC	IC	IC	IC
29 May 2019	Е	IC	IC	IC	IC	IC	IC

Summary of water quality parameters at the SBOO kelp stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, $^{\circ}$ 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	06 May 2019	1036	2	<2	<2	<2	1.00	16.7	77.25	8.3	33.63	8.2
119	06 May 2019	1036	6	<2	<2	<2	1.00	14.3	69.66	7.4	33.71	8.1
119	06 May 2019	1036	11	<2	<2	<2	1.00	12.8	61.95	5.8	33.63	8.0
119	13 May 2019	1123	2	<2	<2	<2	1.00	18.1	71.75	8.7	33.60	8.2
119	13 May 2019	1123	6	<2	2e	<2	1.00	17.4	71.25	8.2	33.64	8.2
119	13 May 2019	1123	11	2e	<2	<2	1.00	13.3	41.08	6.8	33.62	8.0
110	10 May 2010	1120		20	~~	~~	1.00	10.0	11.00	0.0	00.02	0.0
119	23 May 2019	1128	2	1400	320e	26e	0.23	15.1	47.52	8.4	33.50	8.2
119	23 May 2019	1128	6	130	18e	4e	0.14	11.8	37.14	5.2	33.67	8.0
119	23 May 2019	1128	11	40	16e	<2	0.40	11.6	64.49	5.2	33.63	7.9
110	20 May 2010	1120			100	~~	0.40	11.0	04.40	0.2	00.00	1.5
119	29 May 2019	1045	2	400e	100e	4e	0.25	15.6	42.96	9.5	33.56	8.2
119	29 May 2019	1045	6	1600e	300e	16e	0.19	14.9	52.21	8.4	33.55	8.1
119	29 May 2019	1045	11	800e	60e	8e	0.13	12.8	23.87	6.4	33.60	7.9
113	23 May 2013	10-0	11	0000	000	00	0.07	12.0	20.07	0.7	00.00	1.5
124	06 May 2019	1052	2	<2	<2	<2	1.00	16.9	77.10	8.4	33.63	8.2
124	06 May 2019	1052	6	<2	<2	<2	1.00	14.5	72.69	7.6	33.69	8.1
124	06 May 2019	1052	11	<2	<2	<2	1.00	14.5	77.05	6.1	33.61	8.0
124	00 May 2019	1052	11	<2	< Z	< <u> </u>	1.00	12.5	11.05	0.1	33.01	0.0
124	13 May 2019	1145	2	2e	4e	<2	2.00	17.9	80.82	8.6	33.63	8.2
124		1145	2				0.33	17.9		8.5	33.62	8.2
	13 May 2019		6	6e	<2	<2			80.12	1		
124	13 May 2019	1145	11	2e	<2	<2	1.00	15.7	74.57	8.9	33.62	8.2
104	00 May 2010	1150	2	< 2	< 2	< 2	1 00	454	07 45	0.1	22.02	0.0
124	23 May 2019	1150	2	<2	<2	<2	1.00	15.1	67.15	9.1	33.63	8.3
124	23 May 2019	1150	6	<2	<2	<2	1.00	14.8	62.49	9.3	33.62	8.3
124	23 May 2019	1150	11	<2	<2	<2	1.00	12.1	69.75	5.9	33.65	8.0
10.4	00 14-11 0040	4400	0	00-	000-	<0	0.00	40.5	40.00		00 54	0.0
124	29 May 2019	1108	2	60e	200e	<2	3.33	16.5	49.83	11.1	33.54	8.3
124	29 May 2019	1108	6	540	110	2e	0.20	14.9	63.52	7.2	33.58	8.1
124	29 May 2019	1108	11	40e	4e	<2	0.10	13.0	63.64	5.8	33.60	7.9
105	00 May 2010	1101	2	< 2	< 2	< 2	1 00	10.0	77.00	0.0	22.02	
125	06 May 2019	1101	2	<2	<2	<2	1.00	16.9	77.28	8.3	33.63	8.2
125	06 May 2019	1101	6	2e	<2	<2	1.00	14.0	79.10	7.3	33.62	8.1
125	06 May 2019	1101	9	<2	<2	<2	1.00	13.2	77.65	6.7	33.62	8.0
105	40 Mars 0040	4450	0	<0	<0	<0	1 00	10.0	00.70	0.4	00.04	0.0
125	13 May 2019	1153	2	<2	<2	<2	1.00	18.2	82.70	8.4	33.64	8.2
125	13 May 2019	1153	6	<2	<2	<2	1.00	18.0	82.61	8.4	33.64	8.2
125	13 May 2019	1153	9	<2	<2	<2	1.00	16.5	77.41	8.8	33.71	8.2
105	00 14- 0040	4450			~		4 00	45.0	07.00		00.00	
125	23 May 2019	1158	2	<2	<2	<2	1.00	15.2	67.32	9.1	33.63	8.3
125	23 May 2019	1158	6	<2	<2	<2	1.00	14.6	62.38	8.0	33.64	8.2
125	23 May 2019	1158	9	<2	<2	<2	1.00	12.2	60.05	5.7	33.62	8.0
105	00 14- 0040	4440		~~~~	10		0.50	10.0	F7 00	44.0	00.55	
125	29 May 2019	1116	2	<20	10e	2e	0.50	16.3	57.03	11.0	33.55	8.3
125	29 May 2019	1116	6	420	78	<2	0.19	14.3	64.48	7.0	33.68	8.1
125	29 May 2019	1116	9	<20	4e	<2	0.20	13.0	66.55	6.1	33.64	8.0
			_					4.4.7				
126	06 May 2019	1109	2	<2	<2	<2	1.00	16.7	77.85	8.3	33.64	8.2
126	06 May 2019	1109	6	4e	2e	<2	0.50	13.6	71.90	7.3	33.64	8.1
126	06 May 2019	1109	9	2e	<2	2e	1.00	12.7	80.27	6.5	33.60	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	рН
126	13 May 2019	1203	2	<2	<2	<2	1.00	18.1	81.64	8.4	33.65	8.2
126	13 May 2019	1203	6	<2	<2	<2	1.00	17.7	80.37	8.5	33.63	8.2
126	13 May 2019	1203	9	<2	<2	<2	1.00	14.9	71.85	8.6	33.53	8.1
	,											
126	23 May 2019	1210	2	<2	4e	<2	2.00	15.4	60.22	8.8	33.60	8.2
126	23 May 2019	1210	6	20e	2e	<2	0.10	15.0	53.61	8.2	33.62	8.2
126	23 May 2019	1210	9	40e	18e	<2	0.45	12.6	55.91	5.9	33.69	8.1
120	25 May 2019	1210	9	400	100	<u></u>	0.45	12.0	55.51	5.5	55.05	0.1
126	20 May 2010	1132	2	< 2	<2	<2	1.00	16.6	62.79	10.8	33.57	8.3
	29 May 2019		2	<2	<2							
126	29 May 2019	1132	6	42	4e	<2	0.10	15.4	57.11	10.2	33.61	8.3
126	29 May 2019	1132	9	<20	4e	<2	0.20	12.5	62.97	6.3	33.60	7.9
						-						
132	06 May 2019	1119	2	<2	<2	<2	1.00	16.9	76.21	8.4	33.63	8.2
132	06 May 2019	1119	6	2e	<2	<2	1.00	16.4	72.27	8.1	33.58	8.1
132	06 May 2019	1119	9	46	12e	2e	0.26	12.7	65.79	6.2	33.64	8.0
132	13 May 2019	1218	2	320e	54	2e	0.17	18.0	71.50	8.5	33.59	8.2
132	13 May 2019	1218	6	300e	68	<2	0.23	17.4	74.36	8.1	33.64	8.2
132	13 May 2019	1218	9	380e	32e	4e	0.08	13.1	61.80	7.5	33.67	8.1
	5											
132	23 May 2019	1223	2	<2	<2	<2	1.00	15.6	58.41	8.8	33.53	8.2
132	23 May 2019	1223	6	<2	<2	<2	1.00	15.4	57.36	8.8	33.59	8.2
132	23 May 2019	1223	9	<2	<2	<2	1.00	15.4	58.77	8.5	33.60	8.2
102	20 May 2010	1220		~~	~~	~~	1.00	10.4	00.77	0.0	00.00	0.2
132	29 May 2019	1146	2	<2	<2	<2	1.00	17.0	59.89	11.1	33.60	8.4
		1146					1.00	16.4	49.71			8.4
132	29 May 2019		6	<2	2e	<2				10.7	33.61	
132	29 May 2019	1146	9	<2	<2	<2	1.00	15.8	47.77	9.2	33.62	8.3
139	06 May 2019	1016	2	<2	<2	<2	1.00	16.6	78.18	8.2	33.63	8.2
139	06 May 2019	1016	12	<2	<2	<2	1.00	12.4	80.83	6.4	33.61	8.0
139	06 May 2019	1016	18	<2	<2	<2	1.00	11.9	85.64	5.7	33.65	7.9
139	13 May 2019	1053	2	<2	<2	<2	1.00	18.1	85.03	8.4	33.64	8.2
139	13 May 2019	1053	12	<2	<2	<2	1.00	16.0	82.14	8.8	33.61	8.2
139	13 May 2019	1053	18	<2	<2	<2	1.00	12.8	77.47	7.2	33.61	8.0
139	23 May 2019	1106	2	<2	<2	<2	1.00	15.3	57.22	8.5	33.62	8.2
139	23 May 2019	1106	12	10e	<2	<2	0.20	11.2	71.49	4.8	33.66	7.9
139	23 May 2019	1106	18	10e	4e	<2	0.40	11.1	58.85	4.5	33.68	7.9
	- ,			-						-		
139	29 May 2019	1021	2	<2	<2	<2	1.00	16.5	66.47	10.5	33.58	8.3
139	29 May 2019	1021	12	6e	<2	<2	0.33	12.2	70.64	6.1	33.62	7.9
139	29 May 2019	1021	18	<2	<2	<2	1.00	11.6	75.56	5.0	33.65	7.8
100	20 Way 2019	1021		~~	~~	~~	1.00	11.0	10.00	0.0	00.00	1.0
140	06 May 2019	1047	2	<2	<2	<2	1.00	16.9	77.10	8.3	33.63	8.2
140	06 May 2019	1047	6	<2	<2	<2	1.00	14.8	65.79	7.3	33.71	8.1
140	06 May 2019	1047	9	6e	<2	2e	0.33	12.9	80.56	6.7	33.61	8.0
	10.11 00.15	4400	_	0000	000		0.15	4	07.4-		00.55	
140	13 May 2019	1136	2	3600e	360e	16e	0.10	17.7	67.15	8.4	33.59	8.2
140	13 May 2019	1136	6	800e	160e	16e	0.20	17.0	60.70	7.7	33.62	8.2
140	13 May 2019	1136	9	46	46	<2	1.00	13.6	60.24	7.2	33.72	8.1
140	23 May 2019	1140	2	180e	88	12e	0.49	15.6	62.59	8.8	33.27	8.2
140	23 May 2019	1140	6	76	22e	<2	0.29	14.9	63.59	9.1	33.60	8.2
140	23 May 2019	1140	9	10e	2e	2e	0.20	12.4	49.12	6.0	33.65	8.0
	-											
140	29 May 2019	1059	2	60e	16e	<2	0.27	15.9	57.09	8.3	33.53	8.2
140	29 May 2019	1059	6	80e	26e	2e	0.32	14.7	54.19	7.6	33.62	8.1
140	29 May 2019	1059	9	260e	26e	<2	0.10	13.5	53.88	6.8	33.61	8.0
			- -							0.0		2.2

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

Station	Date	Parameter	Value
119	06 May 2019	Depth (m)	9
119	06 May 2019	Arrive Time	1036
119	06 May 2019	Depart Time	1039
119	06 May 2019	Air Temp (C)	16
119	06 May 2019	Weather	
	-		Rain
119	06 May 2019	Visibility (mi)	5
119	06 May 2019	Wind Speed (kts)	13
119	06 May 2019	Wind Dir	SE
119	06 May 2019	Water Color	Brownish-Green
119	06 May 2019	Wave Ht Low (ft)	3
I19	06 May 2019	Wave Period (sec)	13
I19	06 May 2019	Sea State	Light chop
I19	06 May 2019	High Tide (ft)	6.33
I19	06 May 2019	High Tide Time	2106
I19	06 May 2019	Low Tide (ft)	-0.71
I19	06 May 2019	Low Tide Time	405
I19	06 May 2019	Comments	none
_	, ,	-	
119	13 May 2019	Depth (m)	11
119	13 May 2019	Arrive Time	1123
119	13 May 2019	Depart Time	1128
119	13 May 2019	Air Temp (C)	17
119	13 May 2019	Weather	Overcast
119	13 May 2019		8
119	13 May 2019	Visibility (mi) Wind Speed (kts)	7
		,	W
119	13 May 2019	Wind Dir	
119	13 May 2019	Water Color	Green
119	13 May 2019	Wave Ht Low (ft)	3
119	13 May 2019	Wave Period (sec)	13
119	13 May 2019	Sea State	Calm
119	13 May 2019	High Tide (ft)	4.34
119	13 May 2019	High Tide Time	505
119	13 May 2019	Low Tide (ft)	-0.12
I19	13 May 2019	Low Tide Time	1158
119	13 May 2019	Comments	none
119	23 May 2019	Depth (m)	11
119	23 May 2019	Arrive Time	1128
119	23 May 2019	Depart Time	1132
119	23 May 2019	Air Temp (C)	15
119	23 May 2019	Weather	Overcast
I19	23 May 2019	Visibility (mi)	9
I19	23 May 2019	Wind Speed (kts)	8
119	23 May 2019	Wind Dir	SW
119	23 May 2019	Water Color	Green
119	23 May 2019	Wave Ht Low (ft)	6
119	23 May 2019	Wave Period (sec)	11
119	23 May 2019	Sea State	Confused swell
119	23 May 2019	High Tide (ft)	3.24
119	23 May 2019	High Tide Time	1432
119	23 May 2019	Low Tide (ft)	-0.05
119	23 May 2019	Low Tide Time	732
119	23 May 2019	Comments	none
113	20 May 2019	Johnnonto	
I19	29 May 2019	Depth (m)	11
119	29 May 2019	Arrive Time	1045
113	20 May 2013		

Station	Date	Parameter	Value
I19	29 May 2019	Depart Time	1053
I19	29 May 2019	Air Temp (C)	16
I19	29 May 2019	Weather	Clear
I19	29 May 2019	Visibility (mi)	6
I19	29 May 2019	Wind Speed (kts)	5
119	29 May 2019	Wind Dir	W
119	29 May 2019	Water Color	Brown
110	29 May 2019	Wave Ht Low (ft)	4
119	29 May 2019	Wave Period (sec)	9
119		Sea State	S
	29 May 2019		
119	29 May 2019	High Tide (ft)	3.59
I19	29 May 2019	High Tide Time	635
119	29 May 2019	Low Tide (ft)	0.93
119	29 May 2019	Low Tide Time	1237
I19	29 May 2019	Comments	none
124	06 May 2019	Depth (m)	9
124	06 May 2019	Arrive Time	1052
124	06 May 2019	Depart Time	1100
124	06 May 2019	Air Temp (C)	16
124	06 May 2019	Weather	Rain
124	06 May 2019	Visibility (mi)	5
124	06 May 2019	Wind Speed (kts)	13
124	06 May 2019	Wind Dir	E
124	06 May 2019	Water Color	– Brownish-Green
124	06 May 2019	Wave Ht Low (ft)	3
124	06 May 2019	Wave Period (sec)	13
124	06 May 2019	Sea State	Light chop
124			-
	06 May 2019	High Tide (ft)	6.33
124	06 May 2019	High Tide Time	2106
124	06 May 2019	Low Tide (ft)	-0.71
124	06 May 2019	Low Tide Time	405
124	06 May 2019	Comments	none
124	13 May 2019	Depth (m)	11
124	13 May 2019	Arrive Time	1145
124	13 May 2019	Depart Time	1149
124	13 May 2019		17
1	•	Air Temp (C)	
124	13 May 2019	Weather	Overcast
124	13 May 2019	Visibility (mi)	8
124	13 May 2019	Wind Speed (kts)	5
124	13 May 2019	Wind Dir	SW
124	13 May 2019	Water Color	Green
124	13 May 2019	Wave Ht Low (ft)	3
124	13 May 2019	Wave Period (sec)	13
124	13 May 2019	Sea State	Calm
124	13 May 2019	High Tide (ft)	4.34
124	13 May 2019	High Tide Time	505
124	13 May 2019	Low Tide (ft)	-0.12
124	13 May 2019	Low Tide Time	1158
124	13 May 2019	Comments	none
	-		
124	23 May 2019	Depth (m)	11
124	23 May 2019	Arrive Time	1150
124	23 May 2019	Depart Time	1155
124	23 May 2019	Air Temp (C)	15
124	23 May 2019	Weather	Overcast
124	23 May 2019	Visibility (mi)	9
124	23 May 2019 23 May 2019	Wind Speed (kts)	5
124	23 May 2019 23 May 2019	Wind Dir	SW
124	23 May 2019	Water Color	Green

			Value
	23 May 2019	Wave Ht Low (ft)	6
124	23 May 2019	Wave Period (sec)	11
124	23 May 2019	Sea State	Confused swell
124	23 May 2019	High Tide (ft)	3.24
	23 May 2019	High Tide Time	1432
	23 May 2019	Low Tide (ft)	-0.05
	23 May 2019	Low Tide Time	732
	23 May 2019	Comments	none
124	20 May 2019	Comments	lione
124	29 May 2019	Depth (m)	10
	29 May 2019	Arrive Time	1108
	29 May 2019	Depart Time	1112
	29 May 2019	Air Temp (C)	16
	29 May 2019	Weather	Clear
			6
	29 May 2019	Visibility (mi)	
	29 May 2019	Wind Speed (kts)	8
	29 May 2019	Wind Dir	W
	29 May 2019	Water Color	Brown
	29 May 2019	Wave Ht Low (ft)	4
	29 May 2019	Wave Period (sec)	9
	29 May 2019	Sea State	Calm
	29 May 2019	High Tide (ft)	3.59
	29 May 2019	High Tide Time	635
124	29 May 2019	Low Tide (ft)	0.93
124	29 May 2019	Low Tide Time	1237
124	29 May 2019	Comments	none
	06 May 2019	Depth (m)	9
125	06 May 2019	Arrive Time	1101
125	06 May 2019	Depart Time	1103
125	06 May 2019	Air Temp (C)	16
125	06 May 2019	Weather	Rain
	06 May 2019	Visibility (mi)	5
	06 May 2019	Wind Speed (kts)	9
	06 May 2019	Wind Dir	SE
	06 May 2019	Water Color	Brownish-Green
	06 May 2019	Wave Ht Low (ft)	3
	06 May 2019	Wave Period (sec)	13
	06 May 2019	Sea State	Light chop
	06 May 2019	High Tide (ft)	6.33
	06 May 2019	High Tide Time	2106
	06 May 2019	Low Tide (ft)	-0.71
	06 May 2019 06 May 2019	Low Tide (II)	405
	06 May 2019 06 May 2019		
125	00 way 2019	Comments	none
125	13 May 2019	Depth (m)	9
		Arrive Time	
	13 May 2019		1153
	13 May 2019	Depart Time	1157
	13 May 2019	Air Temp (C)	17 Denthy Claudy
	13 May 2019	Weather	Partly Cloudy
	13 May 2019	Visibility (mi)	8
	13 May 2019	Wind Speed (kts)	4
	13 May 2019	Wind Dir	SW
	13 May 2019	Water Color	Bluish-Green
	13 May 2019	Wave Ht Low (ft)	3
	13 May 2019	Wave Period (sec)	13
	13 May 2019	Sea State	Calm
	13 May 2019	High Tide (ft)	4.34
	13 May 2019	High Tide Time	505
	13 May 2019	Low Tide (ft)	-0.12
	13 May 2019	Low Tide Time	1158

Station	Date	Parameter	Value
125	13 May 2019	Comments	Unable to obtain station depth
_	, ,		
125	23 May 2019	Depth (m)	9
125	23 May 2019	Arrive Time	1158
125	23 May 2019	Depart Time	1205
125	23 May 2019	Air Temp (C)	15
125	23 May 2019	Weather	Overcast
125	23 May 2019	Visibility (mi)	9
125	23 May 2019	Wind Speed (kts)	6
125		Wind Dir	SW
125	23 May 2019	Water Color	
125	23 May 2019		Green
	23 May 2019	Wave Ht Low (ft)	6
125	23 May 2019	Wave Period (sec)	11 Confirmed annull
125	23 May 2019	Sea State	Confused swell
125	23 May 2019	High Tide (ft)	3.24
125	23 May 2019	High Tide Time	1432
125	23 May 2019	Low Tide (ft)	-0.05
125	23 May 2019	Low Tide Time	732
125	23 May 2019	Comments	none
125	29 May 2019	Depth (m)	10
125	29 May 2019	Arrive Time	1116
125	29 May 2019	Depart Time	1126
125	29 May 2019	Air Temp (C)	16
125	29 May 2019	Weather	Clear
125	29 May 2019	Visibility (mi)	6
125	29 May 2019	Wind Speed (kts)	6
125	29 May 2019	Wind Dir	Ŵ
125	29 May 2019	Water Color	Brown
125	29 May 2019	Wave Ht Low (ft)	4
125	29 May 2019	Wave Period (sec)	9
125	29 May 2019	Sea State	Calm
125			
	29 May 2019	High Tide (ft)	3.59
125	29 May 2019	High Tide Time	635
125	29 May 2019	Low Tide (ft)	0.93
125	29 May 2019	Low Tide Time	1237
125	29 May 2019	Comments	none
100			
126	06 May 2019	Depth (m)	9
126	06 May 2019	Arrive Time	1109
126	06 May 2019	Depart Time	1112
126	06 May 2019	Air Temp (C)	16
126	06 May 2019	Weather	Rain
126	06 May 2019	Visibility (mi)	5
126	06 May 2019	Wind Speed (kts)	8
126	06 May 2019	Wind Dir	SE
126	06 May 2019	Water Color	Brownish-Green
126	06 May 2019	Wave Ht Low (ft)	3
126	06 May 2019	Wave Period (sec)	13
126	06 May 2019	Sea State	Light chop
126	06 May 2019	High Tide (ft)	6.33
126	06 May 2019	High Tide Time	2106
126	06 May 2019	Low Tide (ft)	-0.71
126	06 May 2019	Low Tide Time	405
120	06 May 2019	Comments	none
120	50 May 2019	Commenta	
126	13 May 2010	Denth (m)	Q
	13 May 2019	Depth (m)	9
126	13 May 2019	Arrive Time	1203
126	13 May 2019	Depart Time	1208
126	13 May 2019	Air Temp (C)	17 Desthy Claudy
126	13 May 2019	Weather	Partly Cloudy

Station	Date	Parameter	Value
126	13 May 2019	Visibility (mi)	8
126	13 May 2019	Wind Speed (kts)	4
126	13 May 2019	Wind Dir	SW
126	13 May 2019	Water Color	Bluish-Green
126	13 May 2019	Wave Ht Low (ft)	3
126	13 May 2019	Wave Period (sec)	13
126	13 May 2019	Sea State	Wind ripples
126	13 May 2019	High Tide (ft)	4.34
120	13 May 2019	High Tide Time	505
		0	
126	13 May 2019	Low Tide (ft)	-0.12
126	13 May 2019	Low Tide Time	1158
126	13 May 2019	Comments	none
126	23 May 2019	Depth (m)	10
126	23 May 2019	Arrive Time	1210
126	23 May 2019	Depart Time	1216
126	23 May 2019	Air Temp (C)	15
126	23 May 2019	Weather	Overcast
126	23 May 2019	Visibility (mi)	9
120	23 May 2019 23 May 2019	Wind Speed (kts)	6
			o SW
126	23 May 2019	Wind Dir	
126	23 May 2019	Water Color	Green
126	23 May 2019	Wave Ht Low (ft)	6
126	23 May 2019	Wave Period (sec)	11
126	23 May 2019	Sea State	Confused swell
126	23 May 2019	High Tide (ft)	3.24
126	23 May 2019	High Tide Time	1432
126	23 May 2019	Low Tide (ft)	-0.05
126	23 May 2019	Low Tide Time	732
126	23 May 2019	Comments	none
126	29 May 2019	Depth (m)	10
126	29 May 2019	Arrive Time	1132
120			1136
1	29 May 2019	Depart Time	
126	29 May 2019	Air Temp (C)	16
126	29 May 2019	Weather	Clear
126	29 May 2019	Visibility (mi)	6
126	29 May 2019	Wind Speed (kts)	5
126	29 May 2019	Wind Dir	W
126	29 May 2019	Water Color	Green
126	29 May 2019	Wave Ht Low (ft)	4
126	29 May 2019	Wave Period (sec)	9
126	29 May 2019	Sea State	Calm
126	29 May 2019	High Tide (ft)	3.59
126	29 May 2019	High Tide Time	635
126	29 May 2019	Low Tide (ft)	0.93
126	29 May 2019	Low Tide Time	1237
126	29 May 2019	Comments	none
100	00 Mai 00 40		
132	06 May 2019	Depth (m)	9
132	06 May 2019	Arrive Time	1119
132	06 May 2019	Depart Time	1124
132	06 May 2019	Air Temp (C)	16
132	06 May 2019	Weather	Partly Cloudy
132	06 May 2019	Visibility (mi)	5
132	06 May 2019	Wind Speed (kts)	5
132	06 May 2019	Wind Dir	SE
132	06 May 2019	Water Color	Brownish-Green
132	06 May 2019	Wave Ht Low (ft)	3
132	06 May 2019	Wave Period (sec)	13
132	06 May 2019	Sea State	Light chop
102	00 May 2019		Light on op

Station	Date	Parameter	Value
132	06 May 2019	High Tide (ft)	6.33
132	06 May 2019	High Tide Time	2106
132	06 May 2019	Low Tide (ft)	-0.71
132	06 May 2019	Low Tide Time	405
132	06 May 2019	Comments	none
_	,	-	
132	13 May 2019	Depth (m)	10
132	13 May 2019	Arrive Time	1218
132	13 May 2019	Depart Time	1223
132	13 May 2019	Air Temp (C)	17
132	13 May 2019	Weather	Partly Cloudy
132	13 May 2019	Visibility (mi)	8
132	13 May 2019	Wind Speed (kts)	6
132	13 May 2019	Wind Dir	SW
132	13 May 2019	Water Color	Green
132	13 May 2019	Wave Ht Low (ft)	3
132	13 May 2019	Wave Period (sec)	13
132	13 May 2019	Sea State	Wind ripples
132	13 May 2019	High Tide (ft)	4.34
132	13 May 2019	High Tide Time	505
132	13 May 2019	Low Tide (ft)	-0.12
		Low Tide Time	
132	13 May 2019		1158
132	13 May 2019	Comments	none
122	22 May 2010	Donth (m)	11
132	23 May 2019	Depth (m)	11
132	23 May 2019	Arrive Time	1223
132	23 May 2019	Depart Time	1229
132	23 May 2019	Air Temp (C)	16
132	23 May 2019	Weather	Overcast
132	23 May 2019	Visibility (mi)	9
132	23 May 2019	Wind Speed (kts)	5
132	23 May 2019	Wind Dir	W
132	23 May 2019	Water Color	Green
132	23 May 2019	Wave Ht Low (ft)	6
132	23 May 2019	Wave Period (sec)	11
132	23 May 2019	Sea State	Confused swell
132	23 May 2019	High Tide (ft)	3.24
132	23 May 2019	High Tide Time	1432
132	23 May 2019	Low Tide (ft)	-0.05
132	23 May 2019	Low Tide Time	732
132	23 May 2019	Comments	none
100	00.14 00.46		
132	29 May 2019	Depth (m)	11
132	29 May 2019	Arrive Time	1146
132	29 May 2019	Depart Time	1151
132	29 May 2019	Air Temp (C)	16
132	29 May 2019	Weather	Clear
132	29 May 2019	Visibility (mi)	6
132	29 May 2019	Wind Speed (kts)	8
132	29 May 2019	Wind Dir	W
132	29 May 2019	Water Color	Green
132	29 May 2019	Wave Ht Low (ft)	4
132	29 May 2019	Wave Period (sec)	9
132	29 May 2019	Sea State	Calm
132	29 May 2019	High Tide (ft)	3.59
132	29 May 2019	High Tide Time	635
132	29 May 2019	Low Tide (ft)	0.93
132	29 May 2019	Low Tide Time	1237
132	29 May 2019	Comments	none
139	06 May 2019	Depth (m)	18

Station	Date	Parameter	Value
139	06 May 2019	Arrive Time	1016
139	06 May 2019	Depart Time	1021
139	06 May 2019	Air Temp (C)	16
139	06 May 2019	Weather	Partly Cloudy
139	06 May 2019	Visibility (mi)	5
139	06 May 2019	Wind Speed (kts)	7
139	06 May 2019	Wind Dir	E
139	06 May 2019	Water Color	– Brownish-Green
139	06 May 2019	Wave Ht Low (ft)	3
139	06 May 2019	Wave Period (sec)	13
139	06 May 2019	Sea State	Light chop
139	06 May 2019	High Tide (ft)	6.33
139		High Tide Time	2106
	06 May 2019		
139	06 May 2019	Low Tide (ft)	-0.71
139	06 May 2019	Low Tide Time	405
139	06 May 2019	Comments	none
139	13 May 2019	Depth (m)	18
139	13 May 2019	Arrive Time	1053
139	13 May 2019	Depart Time	1105
139	13 May 2019	Air Temp (C)	17
139	13 May 2019	Weather	Overcast
139	13 May 2019	Visibility (mi)	8
139	13 May 2019	Wind Speed (kts)	4
139	13 May 2019	Wind Dir	S
139	13 May 2019	Water Color	Blue
139	13 May 2019	Wave Ht Low (ft)	4
139	13 May 2019	Wave Period (sec)	13
139	13 May 2019	Sea State	Calm
139	13 May 2019	High Tide (ft)	4.34
139	13 May 2019	High Tide Time	505
139	13 May 2019	Low Tide (ft)	-0.12
139	13 May 2019	Low Tide Time	1158
139	13 May 2019	Comments	none
100	10 May 2010	Comments	
139	23 May 2019	Depth (m)	20
139	23 May 2019	Arrive Time	1106
139	23 May 2019	Depart Time	1111
139	23 May 2019	Air Temp (C)	15
	-	,	
139	23 May 2019	Weather	Overcast
139	23 May 2019	Visibility (mi)	9
139	23 May 2019	Wind Speed (kts)	5
139	23 May 2019	Wind Dir	SW
139	23 May 2019	Water Color	Brownish-Green
139	23 May 2019	Wave Ht Low (ft)	8
139	23 May 2019	Wave Period (sec)	11 Confirmed and the
139	23 May 2019	Sea State	Confused swell
139	23 May 2019	High Tide (ft)	3.24
139	23 May 2019	High Tide Time	1432
139	23 May 2019	Low Tide (ft)	-0.05
139	23 May 2019	Low Tide Time	732
139	23 May 2019	Comments	Kelp debris
139	29 May 2019	Depth (m)	20
139	29 May 2019	Arrive Time	1021
139	29 May 2019	Depart Time	1026
139	29 May 2019	Air Temp (C)	16
139	29 May 2019	Weather	Partly Cloudy
139	29 May 2019	Visibility (mi)	6
139	29 May 2019	Wind Speed (kts)	4
139	29 May 2019	Wind Dir	SW

Station	Date	Parameter	Value
139	29 May 2019	Water Color	Green
139	29 May 2019	Wave Ht Low (ft)	4
139	29 May 2019	Wave Period (sec)	9
139	29 May 2019	Sea State	Calm
139	29 May 2019	High Tide (ft)	3.59
139	29 May 2019	High Tide Time	635
139	29 May 2019	Low Tide (ft)	0.93
139	29 May 2019	Low Tide Time	1237
139	29 May 2019	Comments	none
139	29 May 2019	Comments	lione
140	06 May 2019	Donth (m)	9
	•	Depth (m)	
140	06 May 2019	Arrive Time	1047
140	06 May 2019	Depart Time	1051
140	06 May 2019	Air Temp (C)	16
140	06 May 2019	Weather	Rain
140	06 May 2019	Visibility (mi)	5
I40	06 May 2019	Wind Speed (kts)	10
140	06 May 2019	Wind Dir	SE
I40	06 May 2019	Water Color	Brownish-Green
I40	06 May 2019	Wave Ht Low (ft)	3
140	06 May 2019	Wave Period (sec)	13
I40	06 May 2019	Sea State	Light chop
140	06 May 2019	High Tide (ft)	6.33
140	06 May 2019	High Tide Time	2106
140	06 May 2019	Low Tide (ft)	-0.71
140	06 May 2019	Low Tide Time	405
140	06 May 2019	Comments	none
	2		
140	13 May 2019	Depth (m)	10
I40	13 May 2019	Arrive Time	1136
140	13 May 2019	Depart Time	1139
140	13 May 2019	Air Temp (C)	17
140	13 May 2019	Weather	Overcast
140	13 May 2019	Visibility (mi)	8
140	13 May 2019	Wind Speed (kts)	6
140	13 May 2019	Wind Dir	SW
140	13 May 2019	Water Color	Green
140			3
	13 May 2019	Wave Ht Low (ft)	
140	13 May 2019	Wave Period (sec)	13 Colm
140	13 May 2019	Sea State	Calm
140	13 May 2019	High Tide (ft)	4.34
140	13 May 2019	High Tide Time	505
140	13 May 2019	Low Tide (ft)	-0.12
140	13 May 2019	Low Tide Time	1158
I40	13 May 2019	Comments	none
	00.14		
140	23 May 2019	Depth (m)	1
140	23 May 2019	Arrive Time	1140
140	23 May 2019	Depart Time	1146
I40	23 May 2019	Air Temp (C)	15
I40	23 May 2019	Weather	Overcast
I40	23 May 2019	Visibility (mi)	9
I40	23 May 2019	Wind Speed (kts)	6
I40	23 May 2019	Wind Dir	SW
I40	23 May 2019	Water Color	Green
I40	23 May 2019	Wave Ht Low (ft)	6
I40	23 May 2019	Wave Period (sec)	11
140	23 May 2019	Sea State	Confused swell
140	23 May 2019	High Tide (ft)	3.24
140	23 May 2019	High Tide Time	1432
140	23 May 2019	Low Tide (ft)	-0.05
	2010	(ii)	

Station	Date	Parameter	Value
140	23 May 2019	Low Tide Time	732
140	23 May 2019	Comments	High CDOM at surface
140	29 May 2019	Depth (m)	11
140	29 May 2019	Arrive Time	1059
140	29 May 2019	Depart Time	1103
140	29 May 2019	Air Temp (C)	16
140	29 May 2019	Weather	Clear
140	29 May 2019	Visibility (mi)	6
140	29 May 2019	Wind Speed (kts)	6
140	29 May 2019	Wind Dir	SW
140	29 May 2019	Water Color	Brown
140	29 May 2019	Wave Ht Low (ft)	4
140	29 May 2019	Wave Period (sec)	9
140	29 May 2019	Sea State	Calm
140	29 May 2019	High Tide (ft)	3.59
140	29 May 2019	High Tide Time	635
140	29 May 2019	Low Tide (ft)	0.93
140	29 May 2019	Low Tide Time	1237
I40	29 May 2019	Comments	TJ river plume on station

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

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	l19	06 May 2019	1	16.69	76.97	8.3	33.63	8.2	24.5	1.02
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	119		2					8.2	24.5	1.06
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			6							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	119	06 May 2019	10	12.75	61.95	5.8	33.63	8.0	25.4	4.89
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	119	13 May 2019	1	18 13	71.56	8.8	33 59	82	24.2	1.53
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		-								
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	119	13 May 2019	10	13.29	41.08	6.8	33.62	8.0	25.3	7.72
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	119	23 May 2019	1	15.08	52 44	84	33 49	82	24.8	1 78
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$										
119 23 May 2019 5 12.64 47.61 6.1 33.73 8.1 25.5 3.16 119 23 May 2019 6 11.84 37.14 5.2 33.67 8.0 25.6 3.31 119 23 May 2019 7 11.71 43.43 5.0 33.63 7.9 25.6 2.96 119 23 May 2019 8 11.78 63.62 5.1 33.63 7.9 25.6 2.61 119 23 May 2019 9 11.65 70.26 5.2 33.63 7.9 25.6 2.51 119 29 May 2019 1 16.15 44.87 10.5 33.48 8.3 24.5 7.37 119 29 May 2019 2 15.58 42.96 9.5 33.56 8.2 24.7 11.05 119 29 May 2019 3 15.05 43.65 8.9 33.54 8.2 24.8 16.41 119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 13.39 119<										
119 23 May 2019 6 11.84 37.14 5.2 33.67 8.0 25.6 3.31 119 23 May 2019 7 11.71 43.43 5.0 33.63 7.9 25.6 2.96 119 23 May 2019 8 11.78 63.62 5.1 33.62 7.9 25.6 2.61 119 23 May 2019 9 11.65 70.26 5.2 33.63 7.9 25.6 2.48 119 29 May 2019 1 16.15 44.87 10.5 33.48 8.3 24.5 7.37 119 29 May 2019 2 15.58 42.96 9.5 33.56 8.2 24.7 11.05 119 29 May 2019 3 15.05 43.65 8.9 33.54 8.2 24.8 16.41 119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 14.69 119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 14.69 119										
11923 May 2019711.7143.435.033.637.925.62.9611923 May 2019811.7863.625.133.627.925.62.6111923 May 2019911.6570.265.233.637.925.62.5111923 May 20191011.6364.495.233.637.925.62.4811929 May 2019116.1544.8710.533.488.324.57.3711929 May 2019215.5842.969.533.568.224.711.0511929 May 2019315.0543.658.933.558.124.916.8211929 May 2019414.9949.808.633.558.124.914.6911929 May 2019514.8751.368.533.558.124.914.6911929 May 2019614.8652.218.433.558.124.914.6911929 May 2019714.8253.238.533.578.124.911.5211929 May 2019814.8353.398.433.578.124.911.5211929 May 2019913.9348.737.133.698.125.210.2111929 May 2019112.7823.876.433.607.925.47.0712406 May										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		•								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
11923 May 20191011.6364.495.233.637.925.62.4811929 May 2019116.1544.8710.533.488.324.57.3711929 May 2019215.5842.969.533.568.224.711.0511929 May 2019315.0543.658.933.548.224.816.4111929 May 2019414.9949.808.633.558.124.916.8211929 May 2019514.8751.368.533.558.124.913.3911929 May 2019614.8652.218.433.558.124.913.3911929 May 2019714.8253.238.533.578.124.912.3011929 May 2019714.8253.238.433.578.124.911.5211929 May 2019814.8353.398.433.578.124.911.5211929 May 20191012.7823.876.433.607.925.47.0712406 May 2019116.8577.058.433.638.224.50.8312406 May 2019316.8376.988.333.638.224.50.9912406 May 2019515.8374.207.833.698.224.51.1512406 Ma										
11929 May 2019116.1544.8710.533.488.324.57.3711929 May 2019215.58 42.96 9.533.568.224.711.0511929 May 2019315.0543.658.933.548.224.816.4111929 May 2019414.9949.808.633.558.124.916.8211929 May 2019514.8751.368.533.558.124.916.8211929 May 2019614.8652.218.433.558.124.913.3911929 May 2019714.8253.238.533.578.124.912.3011929 May 2019814.8353.398.433.578.124.911.5211929 May 2019814.8353.398.433.607.925.47.0711929 May 20191012.7823.876.433.607.925.47.0712406 May 2019116.8577.058.433.638.224.50.8312406 May 2019116.8576.988.333.638.224.50.9912406 May 2019316.8376.988.333.638.224.51.1512406 May 2019515.8374.207.833.698.125.12.1112406 M										
119 29 May 2019 2 15.58 42.96 9.5 33.56 8.2 24.7 11.05 119 29 May 2019 3 15.05 43.65 8.9 33.54 8.2 24.8 16.41 119 29 May 2019 4 14.99 49.80 8.6 33.55 8.1 24.9 16.82 119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 14.69 119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 13.39 119 29 May 2019 8 14.82 53.23 8.5 33.57 8.1 24.9 11.52 119 29 May 2019 8 14.83 53.39 8.4 33.57 8.1 24.9 11.52 119 29 May 2019 9 13.93 48.73 7.1 33.69 8.1 25.2 10.21 119 29 May 2019 1 16.85 77.05 8.4 33.63 8.2 24.5 0.83	119	23 May 2019	10	11.63	64.49	5.2	33.63	7.9	25.6	2.48
119 29 May 2019 2 15.58 42.96 9.5 33.56 8.2 24.7 11.05 119 29 May 2019 3 15.05 43.65 8.9 33.54 8.2 24.8 16.41 119 29 May 2019 4 14.99 49.80 8.6 33.55 8.1 24.9 16.82 119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 14.69 119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 13.39 119 29 May 2019 8 14.82 53.23 8.5 33.57 8.1 24.9 11.52 119 29 May 2019 8 14.83 53.39 8.4 33.57 8.1 24.9 11.52 119 29 May 2019 9 13.93 48.73 7.1 33.69 8.1 25.2 10.21 119 29 May 2019 1 16.85 77.05 8.4 33.63 8.2 24.5 0.83	119	29 May 2019	1	16.15	44.87	10.5	33.48	8.3	24.5	7.37
119 29 May 2019 3 15.05 43.65 8.9 33.54 8.2 24.8 16.41 119 29 May 2019 4 14.99 49.80 8.6 33.55 8.1 24.9 16.82 119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 14.69 119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 13.39 119 29 May 2019 7 14.82 53.23 8.5 33.57 8.1 24.9 11.52 119 29 May 2019 8 14.83 53.39 8.4 33.57 8.1 24.9 11.52 119 29 May 2019 9 13.93 48.73 7.1 33.69 8.1 25.2 10.21 119 29 May 2019 10 12.78 23.87 6.4 33.63 8.2 24.5 0.83 124 06 May 2019 2 16.85 77.10 8.4 33.63 8.2 24.5 0.86		•								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$										
119 29 May 2019 5 14.87 51.36 8.5 33.55 8.1 24.9 14.69 119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 13.39 119 29 May 2019 7 14.82 53.23 8.5 33.57 8.1 24.9 12.30 119 29 May 2019 8 14.83 53.39 8.4 33.57 8.1 24.9 11.52 119 29 May 2019 9 13.93 48.73 7.1 33.69 8.1 25.2 10.21 119 29 May 2019 10 12.78 23.87 6.4 33.60 7.9 25.4 7.07 124 06 May 2019 2 16.85 77.10 8.4 33.63 8.2 24.5 0.83 124 06 May 2019 2 16.85 77.10 8.4 33.63 8.2 24.5 0.86 124 06 May 2019 3 16.83 76.98 8.3 33.64 8.2 24.5 0.99 12										
119 29 May 2019 6 14.86 52.21 8.4 33.55 8.1 24.9 13.39 119 29 May 2019 7 14.82 53.23 8.5 33.57 8.1 24.9 12.30 119 29 May 2019 8 14.83 53.39 8.4 33.57 8.1 24.9 11.52 119 29 May 2019 9 13.93 48.73 7.1 33.69 8.1 25.2 10.21 119 29 May 2019 10 12.78 23.87 6.4 33.63 8.2 24.5 0.83 124 06 May 2019 1 16.85 77.05 8.4 33.63 8.2 24.5 0.83 124 06 May 2019 2 16.85 77.10 8.4 33.63 8.2 24.5 0.86 124 06 May 2019 3 16.83 76.98 8.3 33.63 8.2 24.5 0.99 124 06 May 2019 4 16.74 76.79 8.1 33.64 8.2 24.5 1.15 124										
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
119 119 11929 May 2019 29 May 2019814.83 953.39 48.73 23.878.4 7.1 6.433.57 33.698.1 8.1 25.224.9 10.21 7.911.52 10.21 7.9124 12406 May 2019 06 May 2019116.85 277.05 7.058.4 8.433.63 3.608.2 7.924.5 25.40.83 0.83124 124 12406 May 2019 06 May 2019216.85 277.10 8.48.4 33.6333.63 8.2 2.4.58.2 0.83124 124 124 166 May 2019316.83 16.8376.98 76.988.3 8.3 33.6333.63 8.2 2.24.524.5 0.86124 124 124 124 124 124 124 124 124 124 12416.74 16.74 16.7476.79 7.9 7.69 15.83 74.20 74.8 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.20 74.8 74.8 74.										
119 11929 May 20199 1013.93 12.7848.73 23.877.1 6.433.69 33.608.1 7.925.2 25.410.21 7.07124 12406 May 2019116.85 16.8577.058.4 8.433.638.2 8.224.50.83 0.83124 12406 May 2019216.85 16.8377.108.4 76.9833.638.2 8.224.50.86 0.86124 12406 May 2019316.83 16.8376.98 76.988.3 8.333.638.2 8.224.50.99 0.99124 124 12406 May 20194 16.7416.74 76.797.8 7.833.69 33.698.2 8.224.51.15 1.15124 124 12406 May 20195 15.8315.83 74.207.8 7.833.69 33.698.1 8.1 25.125.1 2.41124 124 124 124 126 12406 May 2019 107 13.28 12.82 78.967.6 6.7 6.7 33.638.0 8.0 25.425.42.66 1.89124 124 124 124 124 124 124 124 124 124 124 124 124 12412.51 12.51 12.51 12.49 12.51 12.49 17.796.0 6.0 33.61 33.61 3.60 33.618.0 8.0 25.425.41.33										
11929 May 20191012.7823.876.433.607.925.47.0712406 May 2019116.8577.058.433.638.224.50.8312406 May 2019216.8577.108.433.638.224.50.8612406 May 2019316.8376.988.333.638.224.50.9912406 May 2019416.7476.798.133.648.224.51.1512406 May 2019515.8374.207.833.698.224.51.1512406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 2019912.5179.246.233.618.025.41.3312406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33										
124 06 May 2019 1 16.85 77.05 8.4 33.63 8.2 24.5 0.83 124 06 May 2019 2 16.85 77.10 8.4 33.63 8.2 24.5 0.86 124 06 May 2019 3 16.83 76.98 8.3 33.63 8.2 24.5 0.86 124 06 May 2019 4 16.74 76.79 8.1 33.63 8.2 24.5 0.99 124 06 May 2019 5 15.83 74.20 7.8 33.69 8.2 24.8 1.63 124 06 May 2019 6 14.50 72.69 7.6 33.69 8.1 25.1 2.41 124 06 May 2019 7 13.28 76.57 7.2 33.68 8.1 25.3 2.67 124 06 May 2019 7 13.28 76.57 7.2 33.63 8.0 25.4 2.66 124 06 May 2019 8 12.82										
12406 May 2019216.8577.108.433.638.224.50.8612406 May 2019316.8376.988.333.638.224.50.9912406 May 2019416.7476.798.133.648.224.51.1512406 May 2019515.8374.207.833.698.224.81.6312406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33				.2.70	_0.07	0.1	00.00			
12406 May 2019316.8376.988.333.638.224.50.9912406 May 2019416.7476.798.133.648.224.51.1512406 May 2019515.8374.207.833.698.224.81.6312406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33										
12406 May 2019416.7476.798.133.648.224.51.1512406 May 2019515.8374.207.833.698.224.81.6312406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33			2							
12406 May 2019416.7476.798.133.648.224.51.1512406 May 2019515.8374.207.833.698.224.81.6312406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33			3							
12406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33			4							
12406 May 2019614.5072.697.633.698.125.12.4112406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33		06 May 2019		15.83			33.69			
12406 May 2019713.2876.577.233.688.125.32.6712406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33	124	06 May 2019	6	14.50	72.69	7.6	33.69	8.1		2.41
12406 May 2019812.8278.966.733.638.025.42.6612406 May 2019912.5179.246.233.628.025.41.8912406 May 20191012.4977.796.033.618.025.41.33	124		7							
I24 06 May 2019 9 12.51 79.24 6.2 33.62 8.0 25.4 1.89 I24 06 May 2019 10 12.49 77.79 6.0 33.61 8.0 25.4 1.33										
I24 06 May 2019 10 12.49 77.79 6.0 33.61 8.0 25.4 1.33										
		2010								

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
124	13 May 2019	1	18.02	81.12	8.5	33.64	8.2	24.2	0.87
124	13 May 2019	2	17.90	80.82	8.6	33.63	8.2	24.2	0.92
124	13 May 2019	3	17.86	80.36	8.6	33.62	8.2	24.2	1.04
124	13 May 2019	4	17.85	80.01	8.6	33.62	8.2	24.3	1.16
124	13 May 2019		17.83	80.06	8.6	33.62	8.2	24.3	1.27
124	13 May 2019	5 6	17.82	80.12	8.5	33.62	8.2	24.3	1.33
124	13 May 2019	7	17.78	80.15	8.6	33.62	8.2	24.3	1.41
124	13 May 2019	8	17.47	78.78	8.4	33.63	8.2	24.4	1.64
124	13 May 2019	9	16.61	75.35	8.4	33.69	8.2	24.4	2.17
124		9 10	15.66		8.9		8.2 8.2	24.0	2.17
124	13 May 2019	10	15.00	74.57	0.9	33.62	0.2	24.0	2.01
10.4	00 14 0040	4		00.00	0.4	00.00	0.0	04.0	4 50
124	23 May 2019	1	15.15	66.92	9.1	33.62	8.2	24.9	1.58
124	23 May 2019	2	15.08	67.15	9.1	33.63	8.3	24.9	1.68
124	23 May 2019	3	14.97	66.16	9.2	33.62	8.3	24.9	2.00
124	23 May 2019	4	14.88	64.54	9.2	33.63	8.3	24.9	2.64
124	23 May 2019	5 6	14.82	63.70	9.2	33.62	8.3	24.9	3.92
124	23 May 2019		14.78	62.49	9.3	33.62	8.3	25.0	5.76
124	23 May 2019	7	14.76	63.98	8.6	33.61	8.3	25.0	6.95
124	23 May 2019	8	12.94	66.55	6.9	33.84	8.2	25.5	6.43
124	23 May 2019	9	12.34	68.79	6.0	33.60	8.0	25.4	3.74
124	23 May 2019	10	12.10	69.75	5.9	33.65	8.0	25.5	2.85
	20 may 2010	10	12.10	00.10	0.0	00.00	0.0	20.0	2.00
124	29 May 2019	1	16.86	50.21	10.9	33.43	8.3	24.3	4.26
124	29 May 2019	2	16.52	49.83	11.1	33.54	8.3	24.5	5.11
124		3	16.21	49.83 52.64	10.6	33.56	8.3	24.5	9.39
	29 May 2019								
124	29 May 2019	4	15.82	60.53	8.9	33.55	8.2	24.7	8.36
124	29 May 2019	5	15.18	62.67	7.9	33.54	8.2	24.8	5.65
124	29 May 2019	6	14.87	63.52	7.2	33.58	8.1	24.9	4.90
124	29 May 2019	7	13.40	66.49	6.3	33.67	8.0	25.3	3.17
124	29 May 2019	8	13.10	66.36	5.9	33.60	7.9	25.3	2.16
124	29 May 2019	9	13.06	65.63	5.8	33.60	7.9	25.3	1.98
124	29 May 2019	10	13.03	63.64	5.8	33.60	7.9	25.3	1.94
125	06 May 2019	1	16.93	77.28	8.3	33.63	8.2	24.5	0.61
125	06 May 2019	2	16.91	77.28	8.3	33.63	8.2	24.5	0.63
125	06 May 2019	3	16.80	76.93	8.2	33.63	8.2	24.5	0.73
125	06 May 2019	4	16.24	75.56	7.8	33.70	8.2	24.7	0.97
125	06 May 2019	5	14.62	71.29	7.5	33.70	8.1	25.1	1.41
125	06 May 2019	6	13.99	79.10	7.3	33.62	8.1	25.1	1.27
	-								
125	06 May 2019	7	13.50	80.02	6.9	33.65	8.0	25.2	1.09
125	06 May 2019	8	13.34	79.10	6.7	33.61	8.0	25.2	0.92
125	06 May 2019	9	13.20	77.65	6.7	33.62	8.0	25.3	0.87
105	40.14		40.05	00.55	~ -				0.00
125	13 May 2019	1	18.22	82.59	8.5	33.64	8.2	24.2	0.68
125	13 May 2019	2 3 4	18.21	82.70	8.4	33.64	8.2	24.2	0.71
125	13 May 2019	3	18.20	82.78	8.4	33.65	8.2	24.2	0.71
125	13 May 2019	4	18.11	83.08	8.4	33.64	8.2	24.2	0.75
125	13 May 2019	5 6	18.03	82.81	8.4	33.64	8.2	24.2	0.84
125	13 May 2019	6	18.01	82.61	8.4	33.64	8.2	24.2	0.94
125	13 May 2019	7	17.62	80.95	8.6	33.63	8.2	24.3	1.24
125	13 May 2019	8	16.54	77.41	8.8	33.71	8.2	24.6	1.64
		-	•						
125	23 May 2019	1	15.32	67.81	9.1	33.58	8.2	24.8	1.36
125	23 May 2019	2	15.22	67.32	9.1	33.63	8.3	24.9	1.47
125		2	15.03	64.75	9.1	33.62		24.9	1.47
	23 May 2019	3 4					8.3		
125	23 May 2019	4	14.99	63.61	9.1	33.62	8.3	24.9	2.56
125	23 May 2019	5 6	14.92	61.81	8.9	33.62	8.3	24.9	3.98
125	23 May 2019	6	14.58	62.38	8.0	33.64	8.2	25.0	5.29
125	23 May 2019	7	12.66	63.19	7.0	33.70	8.1	25.5	5.23
125	23 May 2019	8	13.41	62.70	6.6	33.59	8.0	25.2	4.72
125	23 May 2019	9	12.24	60.05	5.7	33.62	8.0	25.5	3.35

125 125 125 125 125 125	29 May 2019 29 May 2019 29 May 2019	1	16.65						
125 125 125 125 125 125	29 May 2019		10 00	57.59	10.7	33.51	8.3	24.5	2.87
125 125 125 125		2	16.32	57.03	11.0	33.55	8.3	24.6	3.91
125 125 125		3	16.16	52.84	10.6	33.54	8.3	24.6	7.64
125 125									
125	29 May 2019	4	15.94	58.90	9.6	33.55	8.2	24.6	7.56
	29 May 2019	5	15.58	62.52	8.5	33.54	8.2	24.7	5.84
105	29 May 2019	6	14.32	64.48	7.0	33.68	8.1	25.1	4.42
125	29 May 2019	7	13.56	66.98	6.4	33.58	8.0	25.2	3.38
	29 May 2019	8	13.04	66.55	6.1	33.64	8.0	25.3	3.05
	,								
126	06 May 2019	1	16.81	78.11	8.3	33.63	8.2	24.5	0.57
	06 May 2019	2	16.72	77.85	8.3	33.64	8.2	24.5	0.63
		3	16.54	76.83	8.2	33.63	8.2	24.6	0.03
	06 May 2019								
	06 May 2019	4	16.10	74.46	7.7	33.68	8.2	24.7	1.04
	06 May 2019	5	14.09	70.31	7.6	33.71	8.1	25.2	1.66
	06 May 2019	6	13.58	71.90	7.3	33.64	8.1	25.2	2.20
126	06 May 2019	7	12.91	78.82	6.7	33.65	8.0	25.4	1.93
126	06 May 2019	8	12.69	80.92	6.5	33.61	8.0	25.4	1.28
	06 May 2019	9	12.68	80.27	6.5	33.60	8.0	25.4	0.97
	00 may <u>20</u> 10	C C							
126	13 May 2019	1	18.17	81.69	8.4	33.64	8.2	24.2	0.78
							0.2 8.2		
	13 May 2019	2	18.08	81.64	8.4	33.65		24.2	0.80
	13 May 2019	3	17.96	82.06	8.4	33.64	8.2	24.2	0.83
	13 May 2019	4	17.93	82.15	8.5	33.64	8.2	24.2	0.92
126	13 May 2019	5	17.89	81.64	8.5	33.63	8.2	24.3	1.16
126	13 May 2019	6	17.73	80.37	8.5	33.63	8.2	24.3	1.48
	13 May 2019	7	17.43	78.92	8.5	33.64	8.2	24.4	1.91
	13 May 2019	8	15.52	72.15	8.4	33.73	8.2	24.9	2.86
	13 May 2019	9	14.88	71.85	8.6	33.53	8.1	24.9	2.68
120	10 May 2010	0	14.00	71.00	0.0	00.00	0.1	24.0	2.00
126	23 May 2019	1	15.46	61.41	8.8	33.61	8.2	24.8	1.70
	23 May 2019		15.44	60.22	8.8	33.60	8.2	24.8	1.80
		2 3	15.35	54.66	8.7		8.2	24.8	2.09
	23 May 2019	3				33.59			
	23 May 2019	4	15.26	54.16	8.7	33.61	8.2	24.8	3.88
	23 May 2019	5	15.12	51.27	8.5	33.62	8.2	24.9	6.05
	23 May 2019	6	15.00	53.61	8.2	33.62	8.2	24.9	7.18
126	23 May 2019	7	14.67	57.13	7.9	33.62	8.2	25.0	6.53
126	23 May 2019	8	14.33	59.59	7.3	33.64	8.2	25.1	5.55
126	23 May 2019	9	12.63	55.91	5.9	33.69	8.1	25.4	3.94
	-								
	29 May 2019	1	16.94	61.67	10.7	33.55	8.3	24.4	1.76
	29 May 2019	2	16.58	62.79	10.8	33.57	8.3	24.5	1.90
	29 May 2019	3	16.18	63.21	10.5	33.59	8.3	24.6	2.43
	29 May 2019	4	16.06	59.11	10.4	33.57	8.3	24.6	4.14
	29 May 2019		15.77	55.72	10.6	33.61	8.3	24.7	9.24
	29 May 2019	5 6	15.45	57.11	10.0	33.61	8.3	24.8	12.92
		6 7							
	29 May 2019		14.41	57.20	8.2	33.69	8.2	25.1	11.51
	29 May 2019	8	12.44	62.26	6.4	33.66	8.0	25.5	8.47
126	29 May 2019	9	12.51	62.97	6.3	33.60	7.9	25.4	6.87
100		<i>,</i>	10.51						
	06 May 2019	1	16.94	74.95	8.4	33.63	8.2	24.5	0.83
	06 May 2019	2	16.92	76.21	8.4	33.63	8.2	24.5	0.89
	06 May 2019	3	16.85	76.25	8.4	33.63	8.2	24.5	1.00
132	06 May 2019	4	16.79	75.76	8.3	33.63	8.2	24.5	1.17
	06 May 2019	5	16.58	74.78	8.2	33.63	8.2	24.6	1.43
	06 May 2019	6	16.37	72.27	8.1	33.58	8.1	24.6	1.78
	06 May 2019	7	16.05	70.15	7.5	33.62	8.1	24.7	2.05
	06 May 2019	8	13.68	68.26	6.6	33.78	8.1	25.3	2.29
	06 May 2019	9	12.69	65.79	6.2	33.64	8.0	25.4	2.27
132	06 May 2019	10	12.67	62.49	6.3	33.61	8.0	25.4	2.27

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
132	13 May 2019	1	18.00	71.50	8.5	33.59	8.2	24.2	1.38
132	13 May 2019	2	17.96	71.50	8.5	33.59	8.2	24.2	1.41
132	13 May 2019	3	17.82	71.05	8.5	33.60	8.2	24.2	1.56
132	13 May 2019	4	17.72	70.35	8.5	33.60	8.2	24.3	1.85
132	13 May 2019	5	17.67	74.41	8.5	33.61	8.2	24.3	1.82
132	13 May 2019	6	17.43	74.36	8.1	33.64	8.2	24.4	1.82
132	13 May 2019	7	14.91	59.72	8.0	33.88	8.2	25.1	3.11
132	13 May 2019	8	13.78	66.77	8.1	33.64	8.1	25.2	4.20
132	13 May 2019	9	13.05	61.80	7.5	33.67	8.1	25.2	4.61
152	13 May 2019	5	13.05	01.00	7.5	55.07	0.1	23.4	4.01
132	23 May 2019	1	15.78	58.99	8.7	33.56	8.2	24.7	1.75
132	23 May 2019	2	15.63	58.41	8.8	33.53	8.2	24.7	2.23
132	23 May 2019	3	15.48	58.59	8.8	33.59	8.2	24.8	3.47
132	23 May 2019	4	15.45	57.03	8.9	33.59	8.3	24.8	4.85
132	23 May 2019	5	15.43	56.82	8.8	33.59	8.3	24.8	6.39
132	23 May 2019	6	15.43	57.36	8.8	33.59	8.2	24.8	7.39
132		7	15.40		8.7	33.59	8.2	24.8	7.31
	23 May 2019	8		58.68					
132	23 May 2019		15.38	59.66	8.6	33.59	8.2	24.8	6.57
132	23 May 2019	9	15.36	58.77	8.5	33.60	8.2	24.8	6.35
132	23 May 2019	10	14.99	58.00	8.3	33.64	8.2	24.9	5.58
132	29 May 2019	1	17.14	60.21	11.2	33.58	8.4	24.4	2.45
132	29 May 2019	2	17.00	59.89	11.1	33.60	8.4	24.4	2.65
		2							
132	29 May 2019	3	16.56	51.48	11.8	33.59	8.4	24.5	8.21
132	29 May 2019	4	16.48	37.08	12.1	33.58	8.4	24.5	21.96
132	29 May 2019	5 6	16.47	41.42	11.6	33.59	8.4	24.6	25.31
132	29 May 2019	6	16.37	49.71	10.7	33.61	8.4	24.6	18.67
132	29 May 2019	7	16.31	50.35	10.1	33.61	8.3	24.6	13.64
132	29 May 2019	8	16.08	46.61	9.6	33.62	8.3	24.7	13.19
132	29 May 2019	9	15.78	47.77	9.2	33.62	8.3	24.7	13.92
139	06 May 2019	1	16.57	78.37	8.2	33.63	8.2	24.6	0.91
139	06 May 2019	2	16.57	78.18	8.2	33.63	8.2	24.6	0.95
139	06 May 2019	3	16.57	78.55	8.2	33.63	8.2	24.6	1.00
139	06 May 2019	4	16.49	78.46	7.9	33.64	8.2	24.6	1.09
139	06 May 2019	5	15.11	77.90	7.3	33.83	8.1	25.0	1.27
139	06 May 2019	6	12.96	78.89	7.0	33.70	8.1	25.4	1.87
139	06 May 2019	7	12.79	78.22	7.0	33.62	8.0	25.4	2.72
139		8		78.63			1		
	06 May 2019		12.61		6.8	33.62	8.0	25.4	3.11
139	06 May 2019	9	12.49	80.37	6.6	33.61	8.0	25.4	3.04
139	06 May 2019	10	12.46	80.39	6.5	33.60	8.0	25.4	3.34
139	06 May 2019	11	12.45	80.34	6.5	33.61	8.0	25.4	3.39
139	06 May 2019	12	12.40	80.83	6.4	33.61	8.0	25.4	3.42
139	06 May 2019	13	12.35	81.81	6.3	33.62	8.0	25.4	3.24
139	06 May 2019	14	12.32	82.80	6.2	33.62	8.0	25.5	2.96
139	06 May 2019	15	12.28	83.42	6.2	33.62	8.0	25.5	2.65
139	06 May 2019	16	12.26	83.86	6.1	33.62	8.0	25.5	2.39
139	06 May 2019	17	12.13	84.61	6.0	33.64	8.0	25.5	2.34
139	06 May 2019	18	11.94	85.64	5.7	33.65	7.9	25.5	1.61
139	13 May 2019	1	18.05	84.77	8.4	33.64	8.2	24.2	0.60
139	13 May 2019	2	18.05	85.03	8.4	33.64	8.2	24.2	0.61
139	13 May 2019	3	18.01	85.14	8.4	33.64	8.2	24.2	0.60
139	13 May 2019	4	17.94	85.13	8.4	33.64	8.2	24.2	0.64
139	13 May 2019	5	17.83	84.85	8.4	33.64	8.2	24.3	0.65
139	13 May 2019	6	17.78	84.90	8.5	33.63	8.2	24.3	0.70
139	13 May 2019	7	17.67	84.93	8.4	33.64	8.2	24.3	0.76
139	13 May 2019	8	17.48	84.70	8.6	33.62	8.2	24.3	0.76
139	13 May 2019	9	17.40	84.87	8.4	33.63	8.2	24.3	0.81
139			16.44		8.7			24.4	
	13 May 2019	10		85.31		33.66	8.2		0.90
139	13 May 2019	11	16.14	84.22	8.8	33.60	8.2	24.6	1.28

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
139	13 May 2019	12	15.99	82.14	8.8	33.61	8.2	24.7	1.93
139	13 May 2019	13	15.74	79.27	8.6	33.62	8.2	24.7	3.08
139	13 May 2019	14	14.21	75.49	8.7	33.67	8.2	25.1	4.51
139	13 May 2019	15	14.27	74.80	8.7	33.56	8.1	25.0	5.32
139	13 May 2019	16	13.78	74.22	8.2	33.66	8.2	25.2	5.42
139	13 May 2019	17	13.16	74.83	7.6	33.62	8.1	25.3	5.20
139	13 May 2019	18	12.85	77.47	7.2	33.61	8.0	25.3	4.64
139	23 May 2019	1	15.28	55.05	8.5	33.62	8.2	24.8	3.10
139	23 May 2019	2	15.34	57.22	8.5	33.62	8.2	24.8	2.81
139	23 May 2019	3	15.30	59.07	8.4	33.63	8.2	24.8	3.01
139	23 May 2019	4	14.79	55.24	7.9	33.67	8.2	25.0	5.54
139	23 May 2019	5	13.85	60.84	7.1	33.65	8.1	25.2	6.90
139	23 May 2019	6	13.22	70.01	6.3	33.71	8.1	25.4	6.42
139	23 May 2019	7	11.90	75.98	5.8	33.68	8.0	25.6	4.81
139	23 May 2019	8	11.85	76.07	5.5	33.62	8.0	25.5	3.31
139	23 May 2019	9	11.86	76.58	5.4	33.61	8.0	25.5	2.65
139	23 May 2019	10	11.59	76.12	5.2	33.64	8.0	25.6	2.53
139	23 May 2019	11	11.31	73.83	4.9	33.66	7.9	25.7	2.01
139	23 May 2019	12	11.22	71.49	4.8	33.66	7.9	25.7	1.65
139	23 May 2019	13	11.20	72.95	4.8	33.66	7.9	25.7	1.44
139	23 May 2019	14	11.19	73.66	4.8	33.66	7.9	25.7	1.39
139	23 May 2019	15	11.14	75.88	4.7	33.67	7.9	25.7	1.30
139	23 May 2019	16	11.06	67.96	4.6	33.68	7.9	25.7	1.21
139	23 May 2019	17	11.06	59.81	4.5	33.68	7.9	25.7	1.17
139	23 May 2019	18	11.07	58.85	4.5	33.68	7.9	25.7	1.17
100	20 May 2010	10	11.07	00.00	4.0	00.00	1.5	20.1	1.17
139	29 May 2019	1	16.46	66.20	10.6	33.58	8.3	24.6	2.25
139	29 May 2019	2	16.48	66.47	10.5	33.58	8.3	24.5	2.13
139	29 May 2019	3	16.24	65.49	10.5	33.59	8.3	24.6	2.26
139	29 May 2019	4	16.17	65.73	10.0	33.61	8.3	24.6	2.96
139	29 May 2019	5	15.73	70.45	9.4	33.68	8.3	24.8	3.30
139	29 May 2019	6	14.36	73.41	9.0	33.67	8.2	24.0	3.30
139	29 May 2019	7	13.61	73.89	8.1	33.71	8.1	25.3	4.02
139	29 May 2019 29 May 2019	8	12.29	73.89	7.3	33.60	8.0	25.3	7.02
139	29 May 2019	9	12.29	72.76	6.9	33.59	8.0	25.4	7.95
139	29 May 2019	10	12.30	72.06	6.6	33.59	8.0	25.4	7.80
139		10	12.27	72.00	6.4	33.61	8.0	25.5	7.81
139	29 May 2019 29 May 2019	12	12.24	70.64	6.1	33.62	7.9	25.5	7.66
	-								
139 139	29 May 2019 29 May 2019	13 14	12.10 12.01	70.53 72.42	5.8 5.6	33.63 33.63	7.9 7.9	25.5 25.5	7.35 6.27
139		14	12.01	74.53	5.0	33.65	7.9	25.6	4.96
	29 May 2019	15			5.2				
139	29 May 2019	10	11.68	77.28		33.65	7.9	25.6	3.68
139	29 May 2019		11.60	77.44	5.0	33.65	7.9	25.6	2.74
139	29 May 2019	18	11.59	75.56	5.0	33.65	7.8	25.6	2.26
140	06 May 2019	1	16.91	76.99	8.3	33.63	8.2	24.5	0.94
		1							
140	06 May 2019	2	16.90	77.10	8.3	33.63	8.2	24.5	0.99
140	06 May 2019	3	16.86	76.88	8.3	33.64	8.2	24.5	1.09
140	06 May 2019	4	16.74 16.17	75.13	8.2	33.63	8.2	24.5	1.31
140	06 May 2019	5 6	16.17	70.44	7.7	33.68	8.1	24.7	1.90
140	06 May 2019	6 7	14.81	65.79	7.3	33.71	8.1	25.0	2.66
140	06 May 2019		13.49	74.85	7.4	33.63	8.1	25.2	3.04
140	06 May 2019	8	13.26	78.28	7.1	33.63	8.1	25.3	3.05
140	06 May 2019	9	12.89	80.56	6.7	33.61	8.0	25.3	2.32
140	06 May 2019	10	12.78	62.07	6.4	33.62	8.0	25.4	2.27
140	13 May 2019	1	17.78	67.75	8.3	33.59	8.2	24.2	2.21
140	13 May 2019	2	17.70	67.15	8.4	33.59	8.2 8.2	24.2	2.21
140 140	13 May 2019	3	17.69	66.20	0.4 8.4	33.59	8.2	24.3	3.22
140 140	13 May 2019	4	17.62	65.70	8.3	33.59	8.2	24.3	3.60
140	15 Way 2019	4	17.02	00.70	0.3	33.39	0.2	24.3	3.00

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
140	13 May 2019	5	17.38	65.28	8.1	33.63	8.2	24.4	3.95
140	13 May 2019	6	16.96	60.70	7.7	33.62	8.2	24.5	4.36
140	13 May 2019	7	15.81	58.21	7.9	33.67	8.1	24.8	4.54
140	13 May 2019	8	15.30	59.67	7.9	33.67	8.1	24.9	4.44
140	13 May 2019	9	13.62	60.24	7.2	33.72	8.1	25.3	4.19
140	23 May 2019	1	15.71	62.54	8.8	33.21	8.2	24.4	1.71
140	23 May 2019	2	15.63	62.59	8.8	33.27	8.2	24.5	1.99
140	23 May 2019	3	15.14	61.99	9.1	33.56	8.2	24.8	2.81
140	23 May 2019	4	15.21	63.02	9.1	33.49	8.3	24.8	3.62
140	23 May 2019	5	14.93	63.41	9.1	33.62	8.3	24.9	4.71
140	23 May 2019	6	14.88	63.59	9.1	33.60	8.2	24.9	6.08
140	23 May 2019	7	14.83	64.48	8.4	33.61	8.2	24.9	6.58
140	23 May 2019	8	13.86	63.26	7.1	33.72	8.2	25.2	6.17
140	23 May 2019	9	12.38	49.12	6.0	33.65	8.0	25.5	4.50
140	23 May 2019	10	13.06	50.50	6.0	33.62	8.0	25.3	3.99
140	29 May 2019	1	16.04	57.49	8.3	33.53	8.2	24.6	1.31
140	29 May 2019	2	15.94	57.09	8.3	33.53	8.2	24.6	1.48
140	29 May 2019	3	15.79	55.08	8.4	33.51	8.2	24.6	1.97
140	29 May 2019	4	15.73	54.23	8.3	33.51	8.2	24.7	2.51
140	29 May 2019	5	15.45	52.94	8.0	33.54	8.2	24.7	3.95
140	29 May 2019	6	14.71	54.19	7.6	33.62	8.1	25.0	5.32
140	29 May 2019	7	13.98	59.03	7.8	33.60	8.1	25.1	6.50
140	29 May 2019	8	13.96	59.93	7.6	33.59	8.0	25.1	7.12
140	29 May 2019	9	13.50	53.88	6.8	33.61	8.0	25.2	5.84
140	29 May 2019	10	13.53	48.42	6.6	33.58	7.9	25.2	4.97

NA = not available



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.


Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Figure 3.1: Graphics of CTD profile data from the SBOO kelp stations for each sample date.



Summary of compliance with the Ocean Plan's Single Sample Maximum standard for total coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Total coliform density shall not exceed 10,000 CFU/100 mL.

Date	l12	l14	I16	I18	122	123	133	136	137	138
15 May 2019	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
16 May 2019	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for fecal coliform bacteria at the SBOO offshore stations within three nautical miles of shore. Fecal coliform density shall not exceed 400 CFU/100 mL.

Date	l12	l14	I16	l18	122	123	133	136	137	138
15 May 2019	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
16 May 2019	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

Summary of compliance with the Ocean Plan's Single Sample Maximum standard for *Enterococcus* bacteria at the SBOO offshore stations within three nautical miles of shore. *Enterococcus* density shall not exceed 104 CFU/100 mL.

Date	l12	l14	I16	l18	122	123	133	136	137	138
15 May 2019	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
16 May 2019	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

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

Date	l12	l14	I16	l18	122	123	133	136	137	138
15 May 2019	ns	ns	ns	ns	ns	ns	IC	IC	IC	IC
16 May 2019	IC	IC	IC	IC	IC	IC	ns	ns	ns	ns

Summary of water quality parameters at the SBOO offshore stations for each sample date. Densities of total coliform (Total), fecal coliform (Fecal) and *Enterococcus* (Entero) bacteria are reported as CFU/100 mL; the fecal:total coliform ratio (F:T) is unitless; values for temperature (Temp, $^{\circ}$ 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	рН
I10	14 May 2019	1125	2	<2	<2	<2	1.0	18.3	84.40	8.4	33.65	8.2
I10	14 May 2019	1125	12	<2	<2	<2	1.0	14.3	85.54	8.7	33.57	8.2
I10	14 May 2019	1125	18	<2	<2	<2	1.0	12.7	75.00	7.5	33.59	8.1
	,	_	_									
I11	14 May 2019	1112	2	<2	<2	<2	1.0	18.2	83.89	8.5	33.65	8.2
I11	14 May 2019	1112	6	<2	<2	<2	1.0	15.5	82.93	9.0	33.63	8.2
I11	14 May 2019	1112	11	<2	<2	<2	1.0	13.3	74.56	7.9	33.59	8.1
	14 May 2010	1112		~~	~~	~~	1.0	10.0	74.00	7.5	00.00	0.1
112	16 May 2019	1031	2	<2	<2	<2	1.0	16.8	81.75	8.6	33.62	8.2
112	16 May 2019	1031	18	2e	<2	<2	1.0	13.3	81.73	7.6	33.57	8.1
112	16 May 2019	1031	27	<2	<2	<2	1.0	12.3	82.30	6.3	33.61	8.0
112	10 Way 2019	1031	21	<u></u>	<u></u>	<u></u>	1.0	12.5	02.50	0.5	55.01	0.0
113	16 May 2019	1054	2	<2	<2	<2	1.0	16.6	85.03	8.5	33.60	8.2
113	16 May 2019	1054	18	<2	<2	<2	1.0	13.4	79.81	7.9	33.59	8.1
113	16 May 2019	1054	37	<2	<2	<2	1.0	11.7	84.91	5.5	33.63	7.9
144	40.14 00.40	4445	0	-0				10.0	05 77	0.5	00.00	0.0
114	16 May 2019	1115	2	<2	<2	<2	1.0	16.3	85.77	8.5	33.60	8.2
114	16 May 2019	1115	18	<2	<2	<2	1.0	13.0	81.69	7.3	33.58	8.1
114	16 May 2019	1115	27	<2	<2	<2	1.0	12.2	81.69	6.2	33.63	8.0
						_						
116	16 May 2019	1020	2	<2	<2	<2	1.0	16.3	85.47	8.6	33.60	8.2
l16	16 May 2019	1020	18	<2	<2	<2	1.0	13.6	81.35	8.1	33.57	8.2
116	16 May 2019	1020	27	<2	<2	<2	1.0	12.3	82.64	6.4	33.62	8.0
I18	16 May 2019	959	2	<2	<2	<2	1.0	16.9	77.60	8.6	33.62	8.2
I18	16 May 2019	959	12	<2	<2	<2	1.0	13.8	78.00	8.3	33.58	8.2
I18	16 May 2019	959	18	<2	<2	<2	1.0	12.8	81.93	6.8	33.60	8.1
120	16 May 2019	840	2	<2	<2	<2	1.0	18.0	85.95	8.3	33.66	8.2
120	16 May 2019	840	18	<2	<2	<2	1.0	14.8	87.04	8.4	33.59	8.2
120	16 May 2019	840	55	<2	<2	2e	1.0	11.1	87.26	5.0	33.69	7.9
	-											
I21	16 May 2019	819	2	<2	<2	<2	1.0	17.9	85.39	8.4	33.66	8.2
121	16 May 2019	819	18	<2	<2	<2	1.0	13.3	79.63	7.5	33.58	8.1
121	16 May 2019	819	37	<2	<2	<2	1.0	11.8	86.84	5.9	33.62	8.0
	, , , , , , , , , , , , , , , , , , ,							-				
122	16 May 2019	930	2	<2	<2	<2	1.0	16.9	84.86	8.5	33.63	8.2
122	16 May 2019	930	18	<2	<2	<2	1.0	13.1	81.70	7.4	33.58	8.1
122	16 May 2019	930	27	<2	<2	<2	1.0	12.3	82.52	6.2	33.61	8.0
	10 may 2010	000		~-	~-	~-		12.0	02.02	0.2	00.01	0.0
123	16 May 2019	943	2	<2	<2	<2	1.0	16.6	81.67	8.6	33.62	8.2
123	16 May 2019	943	12	<2	<2	<2	1.0	14.1	75.57	8.3	33.60	8.2
123	16 May 2019	943	12	<2	<2	<2	1.0	13.1	81.92	7.3	33.61	8.1
120	10 May 2019	0-10	10	~~	~~	~~	1.0	10.1	01.02	7.0	00.01	0.1
13	14 May 2019	1012	2	<2	<2	<2	1.0	18.2	85.70	8.4	33.66	8.2
13	14 May 2019	1012	18	<2	<2	<2	1.0	13.5	82.19	8.6	33.57	8.1
13	14 May 2019	1012	27	<2	<2	<2	1.0	11.9	83.42	5.8	33.62	8.0
13	14 May 2019	1012	21	~~	~~	~~	1.0	11.9	00.42	5.0	00.0Z	0.0
130	15 May 2019	903	2	<2	<2	<2	1.0	18.4	83.20	8.6	33.67	8.2
130	15 May 2019	903	∠ 18				1.0	12.9	82.22	7.0	33.59	0.2 8.1
				<2	<2	<2						
130	15 May 2019	903	27	<2	<2	<2	1.0	11.9	81.93	5.6	33.65	8.0

Station	Date	Time	Depth	Total	Fecal	Entero	F:T	Temp	XMS	DO	Sal	рН
133	15 May 2019	805	2	<2	<2	<2	1.0	18.4	82.91	8.7	33.65	8.2
133	15 May 2019	805	18	<2	<2	<2	1.0	12.8	82.52	6.9	33.59	8.0
133	15 May 2019	805	27	<2	<2	<2	1.0	11.6	85.02	5.6	33.64	7.9
136	15 May 2019	940	2	2e	<2	<2	1.0	18.2	67.97	8.7	33.61	8.2
136	15 May 2019	940	6	4e	<2	<2	0.5	15.8	67.53	10.3	33.66	8.3
136	15 May 2019	940	11	<2	<2	<2	1.0	13.2	54.02	7.2	33.60	8.0
107	45.14 0040	700	•					47.0	00.04		00.04	
137	15 May 2019	738	2	<2	<2	<2	1.0	17.8	80.84	8.2	33.64	8.2
137	15 May 2019	738	6	<2	<2	<2	1.0	14.1	73.37	7.3	33.61	8.1
137	15 May 2019	738	11	<2	<2	<2	1.0	12.6	75.87	6.5	33.59	8.0
138	15 May 2019	1012	2	<2	<2	<2	1.0	18.4	65.59	9.0	33.61	8.2
138	15 May 2019	1012	6	2e	<2	<2	1.0	16.1	76.12	9.7	33.64	8.2
138	15 May 2019	1012	11	<2	<2	<2	1.0	13.3	67.16	6.1	33.61	8.0
				~	~-	~-						
15	14 May 2019	1035	2	<2	<2	<2	1.0	18.2	83.19	8.5	33.65	8.2
15	14 May 2019	1035	6	16e	4e	2e	0.2	16.8	65.47	7.8	33.66	8.2
15	14 May 2019	1035	11	4e	<2	<2	0.5	12.9	69.20	7.1	33.63	8.1
17	14 May 2019	851	2	2e	<2	<2	1.0	18.0	84.53	8.6	33.65	8.2
17	14 May 2019	851	18	<2	<2	<2	1.0	13.9	86.15	8.5	33.57	8.1
17	14 May 2019	851	52	2e	<2	<2	1.0	11.2	87.24	5.3	33.66	7.9
10								40.4				
18	14 May 2019	1155	2	<2	<2	<2	1.0	18.1	84.29	8.5	33.64	8.2
18	14 May 2019	1155	18	<2	<2	<2	1.0	13.4	80.11	8.4	33.58	8.2
18	14 May 2019	1155	37	2e	<2	<2	1.0	11.6	82.76	5.3	33.65	7.9
19	14 May 2019	1139	2	<2	<2	<2	1.0	17.9	85.45	8.5	33.65	8.2
19	14 May 2019	1139	18	2e	<2	<2	1.0	13.6	82.43	8.6	33.56	8.2
19	14 May 2019	1139	27	4e	<2	<2	0.5	11.8	81.79	5.5	33.65	7.9
10	Triviay 2013	1100	~ 1		<u>\</u>	~~	0.0	11.0	01.79	0.0	30.00	1.5

ns = not sampled ND = no data

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

Station	Date	Parameter	Value
1	14 May 2019	Depth (m)	61
11	14 May 2019	Arrive Time	918
I1	14 May 2019	Depart Time	929
11	14 May 2019	Air Temp (C)	17
11	14 May 2019	Weather	Continuous layer of clouds
11	14 May 2019	Visibility (mi)	11
I1	14 May 2019	Wind Speed (kts)	2
I1	14 May 2019	Wind Dir	NW
I1	14 May 2019	Water Color	Greenish-Blue
1	14 May 2019	Wave Ht Low (ft)	5
I1	14 May 2019	Wave Period (sec)	13
I1 I1		Sea State	Calm
	14 May 2019		
1	14 May 2019	High Tide (ft)	4.41
1	14 May 2019	High Tide Time	616
1	14 May 2019	Low Tide (ft)	-0.05
1	14 May 2019	Low Tide Time	1245
1	14 May 2019	Comments	none
I10	14 May 2019	Depth (m)	20
I10	14 May 2019	Arrive Time	1125
I10	14 May 2019	Depart Time	1130
I10	14 May 2019	Air Temp (C)	18
I10	14 May 2019	Weather	Continuous layer of clouds
I10	14 May 2019	Visibility (mi)	13
110	14 May 2019	Wind Speed (kts)	10
110	14 May 2019	Wind Dir	W
110	14 May 2019	Water Color	Bluish-Green
110	14 May 2019	Wave Ht Low (ft)	5
110	14 May 2019	Wave Period (sec)	13
110	14 May 2019	Sea State	Calm
110	14 May 2019	High Tide (ft)	4.41
110	14 May 2019	High Tide Time	616
110	14 May 2019	Low Tide (ft)	-0.05
I10	14 May 2019	Low Tide Time	1245
I10 I10	14 May 2019	Comments	none
110	14 May 2019	Comments	none
I11	14 May 2019	Depth (m)	13
I11	14 May 2019	Arrive Time	1112
I11	14 May 2019	Depart Time	1118
I11	14 May 2019	Air Temp (C)	18
I11	14 May 2019	Weather	Continuous layer of clouds
I11	14 May 2019	Visibility (mi)	13
l11	14 May 2019	Wind Speed (kts)	10
l11	14 May 2019	Wind Dir	W
I11	14 May 2019	Water Color	Bluish-Green
I11	14 May 2019	Wave Ht Low (ft)	5
I11	14 May 2019	Wave Period (sec)	13
I11	14 May 2019	Sea State	Calm
I11	14 May 2019	High Tide (ft)	4.41
111	14 May 2019	High Tide Time	616
111	14 May 2019	Low Tide (ft)	-0.05
I11	14 May 2019	Low Tide Time	1245
I11	14 May 2019	Comments	none
I12	16 May 2019	Depth (m)	29
l12	16 May 2019	Arrive Time	1031

Station	Date	Parameter	Value
l12	16 May 2019	Depart Time	1035
l12	16 May 2019	Air Temp (C)	16
l12	16 May 2019	Weather	Rain
l12	16 May 2019	Visibility (mi)	7
112	16 May 2019	Wind Speed (kts)	16
112	16 May 2019	Wind Dir	SE
112	16 May 2019	Water Color	Green
112	16 May 2019	Wave Ht Low (ft)	5
1		()	9
112	16 May 2019	Wave Period (sec)	-
112	16 May 2019	Sea State	Heavy chop
112	16 May 2019	High Tide (ft)	4.47
l12	16 May 2019	High Tide Time	811
l12	16 May 2019	Low Tide (ft)	0.35
l12	16 May 2019	Low Tide Time	1405
l12	16 May 2019	Comments	none
I13	16 May 2019	Depth (m)	39
113	16 May 2019	Arrive Time	1054
113	16 May 2019	Depart Time	1102
113	16 May 2019	Air Temp (C)	15
113	16 May 2019	Weather	Rain
113	16 May 2019	Visibility (mi)	7
	•	,	
113	16 May 2019	Wind Speed (kts)	15
113	16 May 2019	Wind Dir	S
I13	16 May 2019	Water Color	Green
I13	16 May 2019	Wave Ht Low (ft)	5
I13	16 May 2019	Wave Period (sec)	9
I13	16 May 2019	Sea State	Heavy chop
I13	16 May 2019	High Tide (ft)	4.47
I13	16 May 2019	High Tide Time	811
I13	16 May 2019	Low Tide (ft)	0.35
113	16 May 2019	Low Tide Time	1405
113	16 May 2019	Comments	none
	10 may 2010	Commente	
114	16 May 2019	Depth (m)	30
114	16 May 2019	Arrive Time	1115
114	16 May 2019	Depart Time	1122
1			
114	16 May 2019	Air Temp (C)	16 Dain
114	16 May 2019	Weather	Rain
114	16 May 2019	Visibility (mi)	7
114	16 May 2019	Wind Speed (kts)	22
I14	16 May 2019	Wind Dir	S
I14	16 May 2019	Water Color	Green
114	16 May 2019	Wave Ht Low (ft)	7
I14	16 May 2019	Wave Period (sec)	9
114	16 May 2019	Sea State	Heavy chop
I14	16 May 2019	High Tide (ft)	4.47
114	16 May 2019	High Tide Time	811
114	16 May 2019	Low Tide (ft)	0.35
114	16 May 2019	Low Tide Time	1405
114	16 May 2019	Comments	
114	10 Iviay 2019	Comments	none
145	16 May 0040	Donth (m)	22
115	16 May 2019	Depth (m)	32
115	16 May 2019	Arrive Time	1040
115	16 May 2019	Depart Time	1044
I15	16 May 2019	Air Temp (C)	16
I15	16 May 2019	Weather	Rain
I15	16 May 2019	Visibility (mi)	7
I15	16 May 2019	Wind Speed (kts)	16
115	16 May 2019	Wind Dir	S
115	16 May 2019	Water Color	Green
			-

Station	Date	Parameter	Value
I15	16 May 2019	Wave Ht Low (ft)	5
I15	16 May 2019	Wave Period (sec)	9
I15	16 May 2019	Sea State	Heavy chop
I15	16 May 2019	High Tide (ft)	4.47
I15	16 May 2019	High Tide Time	811
I15	16 May 2019	Low Tide (ft)	0.35
I15	16 May 2019	Low Tide Time	1405
I15	16 May 2019	Comments	none
		•••••••	
I16	16 May 2019	Depth (m)	29
116	16 May 2019	Arrive Time	1020
116	16 May 2019	Depart Time	1024
116	16 May 2019	Air Temp (C)	16
116	16 May 2019	Weather	Rain
116	16 May 2019	Visibility (mi)	7
116	16 May 2019	Wind Speed (kts)	18
116	16 May 2019	Wind Dir	SE
116	16 May 2019	Water Color	Green
116		Wave Ht Low (ft)	5
I16 I16	16 May 2019		5 9
I16 I16	16 May 2019 16 May 2019	Wave Period (sec) Sea State	9 Heavy chop
I16	16 May 2019	High Tide (ft)	4.47
116	16 May 2019	High Tide Time	811
I16	16 May 2019	Low Tide (ft)	0.35
I16	16 May 2019	Low Tide Time	1405
I16	16 May 2019	Comments	none
I17	16 May 2019	Depth (m)	28
117	16 May 2019	Arrive Time	1012
117	16 May 2019	Depart Time	1016
117	16 May 2019	Air Temp (C)	16
117	16 May 2019	Weather	Rain
117	16 May 2019	Visibility (mi)	7
117	16 May 2019	Wind Speed (kts)	18
117	16 May 2019	Wind Dir	SE
117	16 May 2019	Water Color	Green
I17	16 May 2019	Wave Ht Low (ft)	5
I17	16 May 2019	Wave Period (sec)	9
I17	16 May 2019	Sea State	e Heavy chop
I17 I17	16 May 2019	High Tide (ft)	4.47
117	16 May 2019	High Tide Time	811
I17 I17	16 May 2019	Low Tide (ft)	0.35
I17 I17	16 May 2019	Low Tide Time	1405
I17 I17	16 May 2019	Comments	none
	10 May 2019	Comments	
I18	16 May 2019	Depth (m)	21
118	16 May 2019	Arrive Time	959
118	16 May 2019	Depart Time	1003
I18	16 May 2019	Air Temp (C)	16
I18	16 May 2019	Weather	Rain
I18	16 May 2019	Visibility (mi)	7
I18	16 May 2019	Wind Speed (kts)	25
I18	16 May 2019	Wind Dir	S
I18	16 May 2019	Water Color	Green
I18	16 May 2019	Wave Ht Low (ft)	5
			9
I18	16 May 2019	Wave Period (sec)	-
I18	16 May 2019	Sea State	Heavy chop
I18	16 May 2019	High Tide (ft)	4.47
I18	16 May 2019	High Tide Time	811
I18	16 May 2019	Low Tide (ft)	0.35
118	16 May 2019	Low Tide Time	1405

Station	Date	Parameter	Value
I18	16 May 2019	Comments	none
12	14 May 2019	Depth (m)	33
12	14 May 2019	Arrive Time	958
2	14 May 2019	Depart Time	1004
12	14 May 2019	Air Temp (C)	17
12	14 May 2019	Weather	Continuous layer of clouds
12	14 May 2019	Visibility (mi)	11
12	14 May 2019	Wind Speed (kts)	5
12	14 May 2019	Wind Dir	NW
12	14 May 2019	Water Color	Greenish-Blue
12	14 May 2019	Wave Ht Low (ft)	5
12	14 May 2019	Wave Period (sec)	13
12	14 May 2019	Sea State	Calm
12	14 May 2019	High Tide (ft)	4.41
12	14 May 2019	High Tide Time	616
12	14 May 2019	Low Tide (ft)	-0.05
12	14 May 2019	Low Tide Time	1245
12	14 May 2019	Comments	none
		_	
120	16 May 2019	Depth (m)	56
120	16 May 2019	Arrive Time	840
120	16 May 2019	Depart Time	846
120	16 May 2019	Air Temp (C)	17
120	16 May 2019	Weather	Continuous layer of clouds
120	16 May 2019	Visibility (mi)	7
120	16 May 2019	Wind Speed (kts)	15
120	16 May 2019	Wind Dir	SE
120	16 May 2019	Water Color	Green
120	16 May 2019	Wave Ht Low (ft)	4
120	16 May 2019	Wave Period (sec)	9
120	16 May 2019	Sea State	Heavy chop
120	16 May 2019	High Tide (ft)	4.47
120	16 May 2019	High Tide Time	811
120	16 May 2019	Low Tide (ft)	0.35
120 120	16 May 2019	Low Tide Time Comments	1405
120	16 May 2019	Comments	none
121	16 May 2019	Depth (m)	42
	-	,	819
I21 I21	16 May 2019 16 May 2019	Arrive Time Depart Time	823
121	16 May 2019	Air Temp (C)	17
121	16 May 2019	Weather	Continuous layer of clouds
121	16 May 2019	Visibility (mi)	7
121	16 May 2019	Wind Speed (kts)	13
121	16 May 2019	Wind Dir	SE
121	16 May 2019	Water Color	Green
121	16 May 2019	Wave Ht Low (ft)	4
121	16 May 2019	Wave Period (sec)	9
121	16 May 2019	Sea State	Heavy chop
121	16 May 2019	High Tide (ft)	4.47
121	16 May 2019	High Tide Time	811
121	16 May 2019	Low Tide (ft)	0.35
121	16 May 2019	Low Tide Time	1405
121	16 May 2019	Comments	none
	. o may 2010	e shimonto	
122	16 May 2019	Depth (m)	30
122	16 May 2019	Arrive Time	930
122	16 May 2019	Depart Time	934
122	16 May 2019	Air Temp (C)	16
122	16 May 2019	Weather	Rain
122	. o may 2010		

Station	Date	Parameter	Value
122	16 May 2019	Visibility (mi)	7
122	16 May 2019	Wind Speed (kts)	26
122	16 May 2019	Wind Dir	S
122	16 May 2019	Water Color	Green
122	16 May 2019	Wave Ht Low (ft)	4
122	16 May 2019	Wave Period (sec)	9
122	16 May 2019	Sea State	Heavy chop
122	16 May 2019	High Tide (ft)	4.47
122	16 May 2019	• • • •	811
122		High Tide Time	
	16 May 2019	Low Tide (ft)	0.35
122	16 May 2019	Low Tide Time	1405
122	16 May 2019	Comments	none
123	16 May 2019	Depth (m)	24
123	16 May 2019	Arrive Time	943
123	16 May 2019	Depart Time	949
123	16 May 2019	Air Temp (C)	16
123	16 May 2019	Weather	Rain
123		Visibility (mi)	7
	16 May 2019	, ()	
123	16 May 2019	Wind Speed (kts)	
123	16 May 2019	Wind Dir	SE
123	16 May 2019	Water Color	Green
123	16 May 2019	Wave Ht Low (ft)	5
123	16 May 2019	Wave Period (sec)	9
123	16 May 2019	Sea State	Heavy chop
123	16 May 2019	High Tide (ft)	4.47
123	16 May 2019	High Tide Time	811
123	16 May 2019	Low Tide (ft)	0.35
123	16 May 2019	Low Tide Time	1405
123	16 May 2019	Comments	none
127	16 May 2019	Depth (m)	30
127	16 May 2019	Arrive Time	914
127	16 May 2019	Depart Time	917
127		Air Temp (C)	16
127	16 May 2019	• • •	
	16 May 2019	Weather	Rain
127	16 May 2019	Visibility (mi)	7
127	16 May 2019	Wind Speed (kts)	18
127	16 May 2019	Wind Dir	S
127	16 May 2019	Water Color	Green
127	16 May 2019	Wave Ht Low (ft)	4
127	16 May 2019	Wave Period (sec)	9
127	16 May 2019	Sea State	Heavy chop
127	16 May 2019	High Tide (ft)	4.47
127	16 May 2019	High Tide Time	811
127	16 May 2019	Low Tide (ft)	0.35
127	16 May 2019	Low Tide Time	1405
127	16 May 2019	Comments	none
100	15 May 2010	Dopth (m)	59
128	15 May 2019	Depth (m)	58
128	15 May 2019	Arrive Time	832
128	15 May 2019	Depart Time	837
128	15 May 2019	Air Temp (C)	17
128	15 May 2019	Weather	Overcast
128	15 May 2019	Visibility (mi)	7
128	15 May 2019	Wind Speed (kts)	3
128	15 May 2019	Wind Dir	W
128	15 May 2019	Water Color	Blue
128	15 May 2019	Wave Ht Low (ft)	5
128	15 May 2019	Wave Period (sec)	16
128	15 May 2019	Sea State	Calm
.20	10 110 2010		

128 15 May 2019 Low Tide (ft) 0.11 128 15 May 2019 Low Tide (ft) 0.11 128 15 May 2019 Low Tide (ft) 1327 128 15 May 2019 Comments none 129 15 May 2019 Depth (m) 39 129 15 May 2019 Depth (m) 39 129 15 May 2019 Ventwe Time 851 129 15 May 2019 Ventwe Time 857 129 15 May 2019 Weather Overcast 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Priod (soc) 16 129 15 May 2019 Wave Priod (soc) 16 129 15 May 2019 Ware Time 1327 13 14 May 2019 Deprt fim 1327 13 14 May 2019 Deprt fime 111 129 15 May 2019 Low Tide (ft) 4.48 129 15 May 2019 Deprt fime 1012	Station	Date	Parameter	Value
128 15 May 2019 Low Tide (t) 0.11 128 15 May 2019 Low Tide (t) 0.11 129 15 May 2019 Comments none 129 15 May 2019 Depth (m) 39 129 15 May 2019 Arive Time 851 129 15 May 2019 Varie Time 851 129 15 May 2019 Varie Time 851 129 15 May 2019 Varie Time 851 129 15 May 2019 Visibility (mi) 7 129 15 May 2019 Vare Color Bluish-Green 129 15 May 2019 Vare Proid (scc) 16 129 15 May 2019 Vare Proid (scc) 16 129 15 May 2019 Low Tide (t) 0.11 129 15 May 2019 Low Tide (t) 0.11 129 15 May 2019 Low Tide (t) 0.11 13 14 May 2019 Peprit Time 1012 13 14 May 2019 Varie Trone 16	128	15 May 2019	High Tide (ft)	4.48
128 15 May 2019 Low Tide Time 1327 128 15 May 2019 Comments none 129 15 May 2019 Depat Time 39 129 15 May 2019 Arrive Time 851 129 15 May 2019 Veather Overcast 129 15 May 2019 Weather Overcast 129 15 May 2019 Wind Dir NW 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Low Tide Time 11 129 15 May 2019 Low Tide Time 1327 129 15 May 2019 Low Tide Time 1327 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 11 13 14 May 2019 Water Color 1327		15 May 2019	High Tide Time	717
128 15 May 2019 Comments none 129 15 May 2019 Depth (m) 39 129 15 May 2019 Arrive Time 851 129 15 May 2019 Arrive Time 855 129 15 May 2019 Visibility (mi) 7 129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Water HLow (ft) 5 129 15 May 2019 Water HLow (ft) 5 129 15 May 2019 Water HLow (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide Time 1012 13 14 May 2019 Arive Time 1018 13 14 May 2019 Depth (m) 27 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11	128	15 May 2019	Low Tide (ft)	0.11
15 May 2019 Depth (m) 39 129 15 May 2019 Depart Time 851 129 15 May 2019 Depart Time 855 129 15 May 2019 Weather Overcast 129 15 May 2019 Wind Dir NW 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Buish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Low Tide (th) 0.11 129 15 May 2019 Low Tide (th) 0.11 129 15 May 2019 Low Tide (th) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wishitf(rmi) 11	128	15 May 2019	Low Tide Time	1327
129 15 May 2019 Arrive Time 851 129 15 May 2019 Air Temp (C) 17 129 15 May 2019 Weather Overcast 129 15 May 2019 Wind Dir NW 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Sea State Calm 129 15 May 2019 Low Tide Time 177 129 15 May 2019 Low Tide Time 127 129 15 May 2019 Low Tide Time 1012 129 15 May 2019 Low Tide Time 1012 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 11 14 May 2019 Air Temp (C) 18 14 May 2019 13 14 May 2019 Wind Dier NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Pretiod (sec) 13	128	15 May 2019	Comments	none
129 15 May 2019 Arrive Time 851 129 15 May 2019 Air Temp (C) 17 129 15 May 2019 Weather Overcast 129 15 May 2019 Wind Dir NW 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Sea State Calm 129 15 May 2019 Low Tide Time 177 129 15 May 2019 Low Tide Time 127 129 15 May 2019 Low Tide Time 1012 129 15 May 2019 Low Tide Time 1012 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 11 14 May 2019 Air Temp (C) 18 14 May 2019 13 14 May 2019 Wind Dier NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Pretiod (sec) 13		-		
129 15 May 2019 Depart Time 855 129 15 May 2019 Weather Overcast 129 15 May 2019 Wisblity (mi) 7 129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Wind Obr NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Low Tide (Time 717 129 15 May 2019 Low Tide (Time 1327 129 15 May 2019 Low Tide (Time 1327 13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1018 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 <td>129</td> <td>15 May 2019</td> <td>Depth (m)</td> <td>39</td>	129	15 May 2019	Depth (m)	39
12 15 May 2019 Air Temp (C) 17 12 15 May 2019 Visibility (mi) 7 12 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Low Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 10.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Vinst Time (C) 18 13 14 May 2019 Vinst Time (C) 18 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wave HL Low (ft) 5 13 14 May 2019 Wave HL Low (ft) 5<	129	15 May 2019	Arrive Time	851
129 15 May 2019 Weather Overcast 129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Depth (m) 27 13 14 May 2019 Ariter Time 1012 13 14 May 2019 Water Time 1012 13 14 May 2019 Wind Dir 11 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec)	129	15 May 2019	Depart Time	855
129 15 May 2019 Visibility (mi) 7 129 15 May 2019 Wind Dir NW 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave HLow (ft) 5 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Sea State Calm 129 15 May 2019 Low Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Arrive Time 1018 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Vave Period (sec) 13 13 14 May 2019 Vave Period (sec) 13 <td>129</td> <td>15 May 2019</td> <td>Air Temp (C)</td> <td>17</td>	129	15 May 2019	Air Temp (C)	17
129 15 May 2019 Wind Speed (kts) 3 129 15 May 2019 Water Color Bluish-Green 129 15 May 2019 Wave Ht Low (ft) 5 129 15 May 2019 Wave Pit Color Bluish-Green 129 15 May 2019 Wave Pit Color Calm 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide Time 717 129 15 May 2019 Low Tide Time 13277 129 15 May 2019 Dept Time 1018 13 14 May 2019 Dept (m) 27 13 14 May 2019 Dept (m) 27 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Waster Continuous layer of clouds 13 14 May 2019 Waster Color 6 13 14 May 2019 Sas State Calm	129	15 May 2019	Weather	Overcast
129 15 May 2019 Wind Dir NW 129 15 May 2019 Wave Floor Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Dir NW 13 14 May 2019 Wind Dir NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 Sea State Calm <td>129</td> <td>15 May 2019</td> <td>Visibility (mi)</td> <td>7</td>	129	15 May 2019	Visibility (mi)	7
129 15 May 2019 Wave Priod (sec) Bluish-Green 129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Sea State Calm 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide Time 717 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide Time 1327 129 15 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 Kave Period (sec) 13 13 14 May 2019 Low Tide (ft) -0.05	129	15 May 2019	Wind Speed (kts)	3
129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 Sea State Calm 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec.) 13 14 May 2019 Wave Period (sec.) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 Low Tide (ft) -0.	129	15 May 2019	Wind Dir	NW
129 15 May 2019 Wave Period (sec) 16 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Ligh Tide (ft) 0.11 129 15 May 2019 Low Tide Time 717 129 15 May 2019 Low Tide Time 1327 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Dept Time 1012 13 14 May 2019 Varive Time 1012 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Sea State Calm 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 </td <td>129</td> <td>15 May 2019</td> <td>Water Color</td> <td>Bluish-Green</td>	129	15 May 2019	Water Color	Bluish-Green
129 15 May 2019 Sea State Calm 129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depart Time 1012 13 14 May 2019 Arrive Time 1018 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Dir NW 13 14 May 2019 Wather Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time <t< td=""><td>129</td><td>15 May 2019</td><td>Wave Ht Low (ft)</td><td>5</td></t<>	129	15 May 2019	Wave Ht Low (ft)	5
129 15 May 2019 High Tide (ft) 4.48 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide (ft) 1327 129 15 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 1012 13 14 May 2019 Deptat Time 1012 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wiat Peed (kts) 6 13 14 May 2019 Wiat Period (sec) 13 14 May 2019 Waet Picol (sec) 13 14 May 2019 13 14 May 2019 Waet Picol (sec) 13 14 May 2019 Waet Picol (sec) 13 14 May 2019 13 14 May 2019 Low Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) 4.41 13 14 May 2019 Low Tide fime 1	129	15 May 2019	Wave Period (sec)	16
129 15 May 2019 High Tide Time 717 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Arrive Time 1018 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wish Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 May 2019 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Depth (m) 30 14 May 2019 Depth (m) 30 15	129	15 May 2019	Sea State	Calm
129 15 May 2019 Ligh Tide Time 717 129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Comments none 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depth (m) 27 13 14 May 2019 Depart Time 1012 13 14 May 2019 Depart Time 1018 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 High Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Depth (m) 30 </td <td></td> <td></td> <td>High Tide (ft)</td> <td>4.48</td>			High Tide (ft)	4.48
129 15 May 2019 Low Tide (ft) 0.11 129 15 May 2019 Low Tide Time 1327 13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Arrive Time 1018 13 14 May 2019 Vertime 1018 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wisibility (mi) 11 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 May 2019 13 14 May 2019 Sea State Calm 13 14 May 2019 Low Tide Time 616 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Low Tide Time 903 13 14 May 2019 Depth (m) 30	129			717
I29 15 May 2019 Comments none I3 14 May 2019 Depth (m) 27 I3 14 May 2019 Arrive Time 1012 I3 14 May 2019 Depart Time 1018 I3 14 May 2019 Air Temp (C) 18 I3 14 May 2019 Weather Continuous layer of clouds I3 14 May 2019 Wind Speed (kts) 6 I3 14 May 2019 Water Color Greenish-Blue I3 14 May 2019 Water Color Greenish-Blue I3 14 May 2019 Wave Period (sec) 13 I4 May 2019 Wave Period (sec) 13 14 May 2019 I3 14 May 2019 Low Tide (ft) 4.41 I3 14 May 2019 Low Tide (ft) -0.05 I3 14 May 2019 Low Tide fTime 1245 I3 14 May 2019 Low Tide Time 144 I3 14 May 2019 Low Tide Time 1245 I3 14 May 2019 Depth (m) </td <td>129</td> <td>15 May 2019</td> <td>Low Tide (ft)</td> <td>0.11</td>	129	15 May 2019	Low Tide (ft)	0.11
13 14 May 2019 Depth (m) 27 13 14 May 2019 Arrive Time 1012 13 14 May 2019 Depart Time 1018 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 May 2019 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 14 May 2019 Depart Time 907 -1.05 </td <td>129</td> <td>15 May 2019</td> <td>Low Tide Time</td> <td>1327</td>	129	15 May 2019	Low Tide Time	1327
13 14 May 2019 Arrive Time 1012 13 14 May 2019 Depart Time 1018 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 May 2019 13 14 May 2019 Wave Period (sec) 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depart Time 903	129	15 May 2019	Comments	none
13 14 May 2019 Arrive Time 1012 13 14 May 2019 Depart Time 1018 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 May 2019 13 14 May 2019 Wave Period (sec) 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depart Time 903				
13 14 May 2019 Depart Time 1018 13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Dir NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Sea State Calm Calm 13 14 May 2019 High Tide (ft) 4.41 14 14 May 2019 Low Tide Time 616 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Depth (m) 30 14 May 2019 Depth (m) 30 15 May 2019 Depatt Time 907 130 15 May 2019 Wind Speed (kts) 1		•	,	
13 14 May 2019 Air Temp (C) 18 13 14 May 2019 Weather Continuous layer of clouds 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Dir NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 14 May 2019 Wave Period (sec) 13 14 13 14 May 2019 Sea State Calm 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide fime 1245 13 14 May 2019 Comments none 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depth (m) 30 13 15 May 2019 Wind Time 907 130 15 May 2019 Mair Temp (C) 17 130 15 May 2019 Wind Dir NW 130 15 May 2019 Wind Dir NW 13			Arrive Time	
I3 14 May 2019 Weather Continuous layer of clouds I3 14 May 2019 Visibility (mi) 11 I3 14 May 2019 Wind Speed (kts) 6 I3 14 May 2019 Water Color Greenish-Blue I3 14 May 2019 Wave Period (sec) 13 I3 14 May 2019 Wave Period (sec) 13 I3 14 May 2019 High Tide (ft) 4.41 I3 14 May 2019 High Tide Time 616 I3 14 May 2019 Low Tide (ft) -0.05 I3 14 May 2019 Low Tide (ft) -0.05 I3 14 May 2019 Low Tide (ft) -0.05 I3 14 May 2019 Low Tide Time 1245 I3 14 May 2019 Depth (m) 30 I3 15 May 2019 Depth (m) 30 I30 15 May 2019 Arive Time 907 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Wind Dir NW <				
13 14 May 2019 Visibility (mi) 11 13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Ware Color Greenish-Blue 13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Low Tide Time 100 13 14 May 2019 Depth (m) 30 13 14 May 2019 Depth (m) 30 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depth (m) 30 130 15 May 2019 Visibility (mi) 9 130 15 May 2019 Visibility (mi) 9 <td< td=""><td></td><td></td><td>• • •</td><td></td></td<>			• • •	
13 14 May 2019 Wind Speed (kts) 6 13 14 May 2019 Wind Dir NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Comments none 13 14 May 2019 Depth (m) 30 13 15 May 2019 Periot (m) 30 130 15 May 2019 Wather Overcast 130 15 May 2019 Wind Dir NW 130				
13 14 May 2019 Wind Dir NW 13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide ftime 1245 13 14 May 2019 Comments none 13 14 May 2019 Comments none 13 15 May 2019 Depth (m) 30 13 15 May 2019 Arrive Time 903 130 15 May 2019 Air Temp (C) 17 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 1				
13 14 May 2019 Water Color Greenish-Blue 13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depth (m) 30 130 15 May 2019 Depth (m) 30 130 15 May 2019 Arrive Time 903 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 <				
13 14 May 2019 Wave Ht Low (ft) 5 13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide Time 616 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Comments none 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depth (m) 30 130 15 May 2019 Depart Time 907 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Dir NW 130 15 May 2019 Wind Dir NW 130 15 May 201				
13 14 May 2019 Wave Period (sec) 13 13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide Time 616 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 13 15 May 2019 Depth (m) 30 130 15 May 2019 Depth (C) 17 130 15 May 2019 Visibility (mi) 9 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Wave Period (sec) 16 130 <td></td> <td></td> <td></td> <td></td>				
13 14 May 2019 Sea State Calm 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 13 15 May 2019 Depth (m) 30 130 15 May 2019 Depth (m) 30 130 15 May 2019 Depth (m) 30 130 15 May 2019 Depart Time 903 130 15 May 2019 Arrive Time 907 130 15 May 2019 Weather Overcast 130 15 May 2019 Wisibility (mi) 9 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Ht Low (ft) 5 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Bea State Calm 130 <td></td> <td>-</td> <td>• •</td> <td></td>		-	• •	
13 14 May 2019 High Tide (ft) 4.41 13 14 May 2019 High Tide Time 616 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 13 14 May 2019 Depth (m) 30 13 15 May 2019 Depth (m) 30 130 15 May 2019 Depart Time 903 130 15 May 2019 Depart Time 907 130 15 May 2019 Air Temp (C) 17 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 High Tide Time 717				
13 14 May 2019 High Tide Time 616 13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 130 15 May 2019 Depth (m) 30 130 15 May 2019 Depth (m) 30 130 15 May 2019 Arrive Time 903 130 15 May 2019 Depart Time 907 130 15 May 2019 Air Temp (C) 17 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 High Tide Time 717 130 15 May 2019 High Tide Time 717				
13 14 May 2019 Low Tide (ft) -0.05 13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 130 15 May 2019 Depth (m) 30 130 15 May 2019 Arrive Time 903 130 15 May 2019 Depart Time 907 130 15 May 2019 Depart Time 907 130 15 May 2019 Veather Overcast 130 15 May 2019 Weather Overcast 130 15 May 2019 Visibility (mi) 9 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Ht Low (ft) 5 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Sea State Calm 130 15 May 2019 High Tide (ft) 4.48 130 15 May 2019 High Tide Time 717			,	
13 14 May 2019 Low Tide Time 1245 13 14 May 2019 Comments none 130 15 May 2019 Depth (m) 30 130 15 May 2019 Arrive Time 903 130 15 May 2019 Depart Time 907 130 15 May 2019 Depart Time 907 130 15 May 2019 Weather Overcast 130 15 May 2019 Weather Overcast 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Sea State Calm 130 15 May 2019 High Tide (ft) 4.48 130 15 May 2019 Low Tide (ft) 0.11 130 15 May 2019 Low Tide (ft) 0.11 130 15 May 2019 Low Tide (ft) 0.11			0	
I3 14 May 2019 Comments none I30 15 May 2019 Depth (m) 30 I30 15 May 2019 Arrive Time 903 I30 15 May 2019 Depart Time 907 I30 15 May 2019 Depart Time 907 I30 15 May 2019 Air Temp (C) 17 I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 <td></td> <td>-</td> <td>. ,</td> <td></td>		-	. ,	
130 15 May 2019 Depth (m) 30 130 15 May 2019 Arrive Time 903 130 15 May 2019 Depart Time 907 130 15 May 2019 Air Temp (C) 17 130 15 May 2019 Weather Overcast 130 15 May 2019 Visibility (mi) 9 130 15 May 2019 Wind Speed (kts) 1 130 15 May 2019 Wind Dir NW 130 15 May 2019 Wind Dir NW 130 15 May 2019 Water Color Bluish-Green 130 15 May 2019 Wave Ht Low (ft) 5 130 15 May 2019 Wave Period (sec) 16 130 15 May 2019 Sea State Calm 130 15 May 2019 High Tide (ft) 4.48 130 15 May 2019 High Tide (ft) 0.11 130 15 May 2019 Low Tide (ft) 0.11 130 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Arrive Time 903 I30 15 May 2019 Depart Time 907 I30 15 May 2019 Air Temp (C) 17 I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327	13	14 May 2019	Comments	none
I30 15 May 2019 Arrive Time 903 I30 15 May 2019 Depart Time 907 I30 15 May 2019 Air Temp (C) 17 I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327	130	15 May 2010	Denth (m)	30
I30 15 May 2019 Depart Time 907 I30 15 May 2019 Air Temp (C) 17 I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Air Temp (C) 17 I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Weather Overcast I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327			•	
I30 15 May 2019 Visibility (mi) 9 I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Wind Speed (kts) 1 I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Wind Dir NW I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Water Color Bluish-Green I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Wave Ht Low (ft) 5 I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide (ft) 0.11 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Wave Period (sec) 16 I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide (ft) 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				-
I30 15 May 2019 Sea State Calm I30 15 May 2019 High Tide (ft) 4.48 I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I3015 May 2019High Tide (ft)4.48I3015 May 2019High Tide Time717I3015 May 2019Low Tide (ft)0.11I3015 May 2019Low Tide Time1327				
I30 15 May 2019 High Tide Time 717 I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
I30 15 May 2019 Low Tide (ft) 0.11 I30 15 May 2019 Low Tide Time 1327				
130 15 May 2019 Low Tide Time 1327				
			. ,	
	130	15 May 2019	Comments	none
I31 15 May 2019 Depth (m) 21	I31	15 May 2019	Depth (m)	21

Station	Date	Parameter	Value
131	15 May 2019	Arrive Time	915
131	15 May 2019	Depart Time	918
131	15 May 2019	Air Temp (C)	17
131	15 May 2019	Weather	Overcast
131	15 May 2019	Visibility (mi)	9
131	15 May 2019	Wind Speed (kts)	1
131	15 May 2019	Wind Dir	NW
131	15 May 2019	Water Color	Bluish-Green
131	15 May 2019	Wave Ht Low (ft)	5
131	15 May 2019	Wave Period (sec)	16
131	15 May 2019	Sea State	Calm
131	15 May 2019	High Tide (ft)	4.48
131	-	High Tide Time	717
	15 May 2019		
131	15 May 2019	Low Tide (ft)	0.11
131	15 May 2019	Low Tide Time	1327
131	15 May 2019	Comments	none
133	15 May 2019	Depth (m)	32
133	15 May 2019	Arrive Time	805
133	15 May 2019	Depart Time	816
133		-	16
1	15 May 2019	Air Temp (C)	
133	15 May 2019	Weather	Overcast
133	15 May 2019	Visibility (mi)	7
133	15 May 2019	Wind Speed (kts)	2
133	15 May 2019	Wind Dir	NW
133	15 May 2019	Water Color	Green
133	15 May 2019	Wave Ht Low (ft)	5
133	15 May 2019	Wave Period (sec)	16
133	15 May 2019	Sea State	Calm
133	15 May 2019	High Tide (ft)	4.48
133	15 May 2019	High Tide Time	717
133	15 May 2019	Low Tide (ft)	0.11
133	15 May 2019	Low Tide Time	1327
133	15 May 2019	Comments	Lobster floats
10.4	15 May 2010	Douth (m)	04
134	15 May 2019	Depth (m)	21
134	15 May 2019	Arrive Time	751
134	15 May 2019	Depart Time	754
134	15 May 2019	Air Temp (C)	16
134	15 May 2019	Weather	Overcast
134	15 May 2019	Visibility (mi)	5
134	15 May 2019	Wind Speed (kts)	2
134	15 May 2019	Wind Dir	NE
134	15 May 2019	Water Color	Green
134	15 May 2019	Wave Ht Low (ft)	5
134	15 May 2019	Wave Period (sec)	16
134	15 May 2019	Sea State	Calm
134	15 May 2019	High Tide (ft)	4.48
134	15 May 2019	High Tide Time	717
134	15 May 2019	Low Tide (ft)	0.11
134	15 May 2019	Low Tide Time	1327
134	15 May 2019	Comments	none
135	15 May 2019	Depth (m)	20
135	15 May 2019	Arrive Time	955
135	15 May 2019	Depart Time	958
135	15 May 2019	Air Temp (C)	17
135	15 May 2019	Weather	Overcast
135	15 May 2019	Visibility (mi)	9
135	15 May 2019	Wind Speed (kts)	0
135	15 May 2019	Wind Dir	
100	10 May 2019		

Station	Date	Parameter	Value
135	15 May 2019	Water Color	Green
135	15 May 2019	Wave Ht Low (ft)	5
135	15 May 2019	Wave Period (sec)	16
135	15 May 2019	Sea State	Calm
135	15 May 2019	High Tide (ft)	4.48
135	15 May 2019	High Tide Time	717
135	15 May 2019	Low Tide (ft)	0.11
135	15 May 2019	Low Tide Time	1327
135	15 May 2019	Comments	Cargo ship on station
155	15 May 2019	Comments	Cargo ship on station
126	15 May 2019	Depth (m)	13
136	•	,	
136	15 May 2019	Arrive Time	940
136	15 May 2019	Depart Time	943
136	15 May 2019	Air Temp (C)	17
136	15 May 2019	Weather	Overcast
136	15 May 2019	Visibility (mi)	9
136	15 May 2019	Wind Speed (kts)	4
136	15 May 2019	Wind Dir	W
136	15 May 2019	Water Color	Green
136	15 May 2019	Wave Ht Low (ft)	5
136	15 May 2019	Wave Period (sec)	16
136	15 May 2019	Sea State	Calm
136	15 May 2019	High Tide (ft)	4.48
136	15 May 2019	High Tide Time	717
136	15 May 2019	Low Tide (ft)	0.11
136	15 May 2019	Low Tide Time	1327
136	15 May 2019	Comments	none
150	15 May 2019	Comments	lione
127	15 May 2010	Donth (m)	14
137	15 May 2019	Depth (m)	
137	15 May 2019	Arrive Time	738
137	15 May 2019	Depart Time	741
137	15 May 2019	Air Temp (C)	16
137	15 May 2019	Weather	Overcast
137	15 May 2019	Visibility (mi)	5
137	15 May 2019	Wind Speed (kts)	2
137	15 May 2019	Wind Dir	SW
137	15 May 2019	Water Color	Green
137	15 May 2019	Wave Ht Low (ft)	5
137	15 May 2019	Wave Period (sec)	16
137	15 May 2019	Sea State	Calm
137	15 May 2019	High Tide (ft)	4.48
137	15 May 2019	High Tide Time	717
137	15 May 2019	Low Tide (ft)	0.11
137	15 May 2019	Low Tide Time	1327
137	15 May 2019	Comments	none
138	15 May 2019	Depth (m)	13
138	15 May 2019	Arrive Time	1012
138	15 May 2019	Depart Time	1012
138	15 May 2019	Air Temp (C)	17
138	15 May 2019	Weather	Overcast
138	15 May 2019	Visibility (mi)	9
138	15 May 2019	Wind Speed (kts)	1
138	15 May 2019	Wind Dir	W
138	15 May 2019	Water Color	Green
138	15 May 2019	Wave Ht Low (ft)	5
138	15 May 2019	Wave Period (sec)	16
138	15 May 2019	Sea State	Calm
138	15 May 2019	High Tide (ft)	4.48
138	15 May 2019	High Tide Time	717
138	15 May 2019	Low Tide (ft)	0.11

Station	Date	Parameter	Value
138	15 May 2019	Low Tide Time	1327
138	15 May 2019	Comments	2 Navy seal inflatables near station
14	14 May 2010	Donth (m)	10
4	14 May 2019	Depth (m)	19
4	14 May 2019	Arrive Time	1027
4	14 May 2019	Depart Time	1031
4	14 May 2019	Air Temp (C)	18 Operations of a local
4	14 May 2019	Weather	Continuous layer of clouds
4	14 May 2019	Visibility (mi)	11
4	14 May 2019	Wind Speed (kts)	5
4	14 May 2019	Wind Dir	NW
4	14 May 2019	Water Color	Greenish-Blue
14	14 May 2019	Wave Ht Low (ft)	5
4	14 May 2019	Wave Period (sec)	13
4	14 May 2019	Sea State	Calm
14	14 May 2019	High Tide (ft)	4.41
14	14 May 2019	High Tide Time	616
14	14 May 2019	Low Tide (ft)	-0.05
14	14 May 2019	Low Tide Time	1245
14	14 May 2019	Comments	none
15	14 May 2019	Depth (m)	14
15	14 May 2019	Arrive Time	1035
15	14 May 2019	Depart Time	1041
15	14 May 2019	Air Temp (C)	18
15	14 May 2019	Weather	Continuous layer of clouds
15	14 May 2019	Visibility (mi)	11
15	14 May 2019	Wind Speed (kts)	6
15	14 May 2019	Wind Dir	Ŵ
15	14 May 2019	Water Color	Green
15	14 May 2019	Wave Ht Low (ft)	5
15	14 May 2019	Wave Period (sec)	13
15	14 May 2019	Sea State	Calm
15	14 May 2019	High Tide (ft)	4.41
15	14 May 2019	High Tide Time	616
15	14 May 2019	Low Tide (ft)	-0.05
15	14 May 2019	Low Tide Time	1245
15	14 May 2019	Comments	none
	, ,		
16	14 May 2019	Depth (m)	26
16	14 May 2019	Arrive Time	1056
16	14 May 2019	Depart Time	1100
16	14 May 2019	Air Temp (C)	18
16	14 May 2019	Weather	Continuous layer of clouds
16	14 May 2019	Visibility (mi)	11
16	14 May 2019	Wind Speed (kts)	7
16	14 May 2019	Wind Dir	NW
16	14 May 2019	Water Color	Greenish-Blue
16	14 May 2019	Wave Ht Low (ft)	5
16	14 May 2019	Wave Period (sec)	13
16	14 May 2019	Sea State	Calm
16	14 May 2019	High Tide (ft)	4.41
16	14 May 2019	High Tide Time	616
16	14 May 2019	Low Tide (ft)	-0.05
16	14 May 2019	Low Tide Time	1245
16	14 May 2019	Comments	none
17	14 May 2019	Depth (m)	52
17 17	14 May 2019	Arrive Time	851
17 17	14 May 2019	Depart Time	858
17 17	14 May 2019	Air Temp (C)	17
1/	14 May 2019		11

Station	Date	Parameter	Value
17	14 May 2019	Weather	Continuous layer of clouds
17	14 May 2019	Visibility (mi)	11
17	14 May 2019	Wind Speed (kts)	2
17	14 May 2019	Wind Dir	Ν
17	14 May 2019	Water Color	Greenish-Blue
17	14 May 2019	Wave Ht Low (ft)	3
17	14 May 2019	Wave Period (sec)	13
17	14 May 2019	Sea State	Calm
17	14 May 2019	High Tide (ft)	4.41
17	14 May 2019	High Tide Time	616
17	14 May 2019	Low Tide (ft)	-0.05
17	14 May 2019	Low Tide Time	1245
17	14 May 2019	Comments	none
		Commonto	
18	14 May 2019	Depth (m)	36
18	14 May 2019	Arrive Time	1155
18	14 May 2019	Depart Time	1214
18	14 May 2019	Air Temp (C)	17
18	14 May 2019	Weather	Continuous layer of clouds
18	14 May 2019	Visibility (mi)	13
18	14 May 2019	Wind Speed (kts)	8
18	14 May 2019	Wind Dir	NW
18	14 May 2019	Water Color	Greenish-Blue
18	14 May 2019	Wave Ht Low (ft)	5
18	14 May 2019	Wave Period (sec)	13
18	14 May 2019	Sea State	Calm
18	14 May 2019	High Tide (ft)	4.41
18	14 May 2019	High Tide Time	616
18	14 May 2019	Low Tide (ft)	-0.05
18	14 May 2019	Low Tide Time	1245
18	14 May 2019	Comments	none
		Commonto	
19	14 May 2019	Depth (m)	29
19	14 May 2019	Arrive Time	1139
19	14 May 2019	Depart Time	1146
19	14 May 2019	Air Temp (C)	18
19	14 May 2019	Weather	Continuous layer of clouds
19	14 May 2019	Visibility (mi)	13
19	14 May 2019	Wind Speed (kts)	8
19	14 May 2019	Wind Dir	NW
19	14 May 2019	Water Color	Greenish-Blue
19	14 May 2019	Wave Ht Low (ft)	5
19	14 May 2019	Wave Period (sec)	13
19	14 May 2019	Sea State	Calm
19	14 May 2019	High Tide (ft)	4.41
19	14 May 2019	High Tide Time	616
19	14 May 2019	Low Tide (ft)	-0.05
19	14 May 2019	Low Tide Time	1245
19	14 May 2019	Comments	none
٦IJ	14 May 2019	Comments	

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

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
I1	14 May 2019	1	18.22	86.78	8.0	33.65	8.2	24.2	0.27
I1	14 May 2019	2	18.21	86.85	8.0	33.65	8.2	24.2	0.27
I1	14 May 2019	3	18.19	87.35	8.0	33.65	8.2	24.2	0.29
1	14 May 2019	4	18.19	87.37	8.0	33.64	8.2	24.2	0.29
I1	14 May 2019	5	18.18	87.37	8.0	33.64	8.2	24.2	0.29
1	14 May 2019	6	18.14	87.28	8.0	33.64	8.2	24.2	0.30
1	14 May 2019	7	18.08	87.27	8.0	33.64	8.2	24.2	0.32
1	14 May 2019	8	18.01	87.31	8.0	33.64	8.2	24.2	0.33
1	14 May 2019	9	17.84	87.37	8.0	33.64	8.2	24.3	0.36
1	14 May 2019	10	16.95	87.30	8.3	33.67	8.2	24.5	0.38
1	14 May 2019	11	15.99	87.37	8.5	33.62	8.2	24.7	0.39
1	14 May 2019	12	15.42	87.55	8.6	33.58	8.2	24.8	0.41
1	14 May 2019	13	15.30	87.45	8.5	33.56	8.2	24.8	0.43
1	14 May 2019	14	15.22	87.35	8.5	33.56	8.2	24.8	0.47
1	14 May 2019	15	15.09	87.23	8.5	33.57	8.2	24.8	0.49
11	14 May 2019	16	14.98	87.19	8.5	33.57	8.2	24.9	0.55
11	14 May 2019	17	14.91	87.01	8.5	33.57	8.2	24.9	0.58
I1	14 May 2019	18	14.81	86.98	8.5	33.58	8.2	24.9	0.59
11	14 May 2019	19	14.72	86.93	8.4	33.58	8.2	24.9	0.62
1	14 May 2019	20	14.58	86.70	8.5	33.58	8.2	25.0	0.67
I1	14 May 2019	21	14.35	86.54	8.6	33.58	8.2	25.0	0.74
1	14 May 2019	22	14.09	86.25	8.6	33.58	8.2	25.1	0.88
1	14 May 2019	23	13.97	86.07	8.6	33.57	8.2	25.1	1.06
11	14 May 2019	24	13.80	85.65	8.6	33.57	8.2	25.1	1.34
11	14 May 2019	25	13.69	85.32	8.5	33.57	8.2	25.1	1.83
11	14 May 2019	26	13.48	84.23	8.3	33.57	8.1	25.2	2.72
1	14 May 2019	27	13.36	82.85	8.1	33.57	8.1	25.2	3.44
11	14 May 2019	28	13.26	82.49	7.8	33.57	8.1	25.2	3.68
11	14 May 2019	29	13.08	82.87	7.4	33.58	8.1	25.3	3.47
11	14 May 2019	30	12.96	83.31	7.1	33.58	8.1	25.3	3.00
1	14 May 2019	31	12.70	84.68	6.7	33.60	8.0	25.4	2.46
1	14 May 2019	32	12.60	85.86	6.5	33.59	8.0	25.4	2.04
11	14 May 2019	33	12.57	86.13	6.4	33.59	8.0	25.4	1.80
1	14 May 2019	34	12.54	86.28	6.3	33.60	8.0	25.4	1.70
1	14 May 2019	35	12.46	86.40	6.3	33.60	8.0	25.4	1.66
1	14 May 2019	36	12.41	86.41	6.2	33.60	8.0	25.4	1.66
1	14 May 2019	37	12.40	86.33	6.2	33.60	8.0	25.4	1.69
11	14 May 2019	38	12.37	86.21	6.2	33.60	8.0	25.4	1.74
11	14 May 2019	39	12.37	86.24	6.2	33.60	8.0	25.4	1.81
I1	14 May 2019	40	12.24	86.25	6.1	33.62	8.0	25.5	1.66
I1	14 May 2019	41	12.01	86.46	6.0	33.61	8.0	25.5	1.60
I1	14 May 2019	42	11.94	86.94	6.0	33.61	8.0	25.5	1.36
I1	14 May 2019	43	11.93	87.48	5.9	33.61	8.0	25.5	1.27
1	14 May 2019	44	11.93	87.71	5.9	33.61	8.0	25.5	1.15
1	14 May 2019	45	11.92	87.66	5.8	33.61	8.0	25.5	1.08
I1	14 May 2019	46	11.91	87.76	5.8	33.62	8.0	25.5	1.08
I1	14 May 2019	47	11.88	87.76	5.8	33.62	7.9	25.5	1.04
I1	14 May 2019	48	11.81	87.91	5.7	33.63	7.9	25.6	0.93
I1	14 May 2019	49	11.75	87.95	5.6	33.64	7.9	25.6	0.89
I1	14 May 2019	50	11.66	88.13	5.5	33.65	7.9	25.6	0.82
I1	14 May 2019	51	11.52	88.17	5.6	33.64	7.9	25.6	0.78
I1	14 May 2019	52	11.50	88.18	5.6	33.63	7.9	25.6	0.78
11	14 May 2019	53	11.49	88.17	5.5	33.63	7.9	25.6	0.78
I1	14 May 2019	54	11.49	88.13	5.6	33.63	7.9	25.6	0.77
I1	14 May 2019	55	11.48	88.13	5.5	33.64	7.9	25.6	0.80
I1	14 May 2019	56	11.42	88.05	5.4	33.65	7.9	25.6	0.83

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
1	14 May 2019	57	11.25	87.89	5.2	33.69	7.9	25.7	0.73
1	14 May 2019	58	10.98	87.60	4.9	33.72	7.9	25.8	0.59
1	14 May 2019	59	10.96	87.54	4.8	33.72	7.8	25.8	0.55
1	14 May 2019	60	10.94	87.47	4.8	33.72	7.8	25.8	0.47
l10	14 May 2019	1	18.34	84.12	8.4	33.65	8.2	24.2	0.40
l10	14 May 2019	2	18.33	84.40	8.4	33.65	8.2	24.2	0.42
I10	14 May 2019	3	18.25	84.32	8.4	33.66	8.2	24.2	0.46
I10	14 May 2019	4	18.17	84.15	8.5	33.65	8.2	24.2	0.49
I10	14 May 2019	5	18.09	84.00	8.5	33.65	8.2	24.2	0.50
I10	14 May 2019	6	18.01	84.04	8.5	33.65	8.2	24.2	0.55
I10	14 May 2019	7	17.75	83.65	8.4	33.66	8.2	24.3	0.59
I10	14 May 2019	8	17.45	83.53	8.6	33.63	8.2	24.4	0.68
I10	14 May 2019	9	17.00	83.64	8.5	33.67	8.2	24.5	0.73
I10	14 May 2019	10	15.62	84.05	8.8	33.63	8.2	24.8	0.78
I10	14 May 2019	11	15.19	85.00	8.7	33.61	8.2	24.9	0.76
I10	14 May 2019	12	14.26	85.54	8.7	33.57	8.2	25.0	0.72
I10	14 May 2019	13	14.20	84.97	8.7	33.55	8.2	25.0	0.72
I10	14 May 2019	14	14.11	84.02	8.7	33.55	8.2	25.0	0.83
l10	14 May 2019	15	14.04	83.29	8.6	33.56	8.2	25.1	1.01
l10	14 May 2019	16	13.44	80.55	8.2	33.62	8.2	25.2	1.69
I10	14 May 2019	17	12.80	74.46	7.8	33.59	8.1	25.3	3.48
110	14 May 2019	18	12.74	75.00	7.5	33.59	8.1	25.4	4.48
l10	14 May 2019	19	12.57	75.64	7.2	33.60	8.1	25.4	4.66
I11	14 May 2019	1	18.21	83.82	8.5	33.64	8.2	24.2	0.45
I11	14 May 2019	2	18.19	83.89	8.5	33.65	8.2	24.2	0.45
I11	14 May 2019	3	18.02	83.80	8.5	33.65	8.2	24.2	0.49
I11	14 May 2019	4	17.69	83.67	8.5	33.65	8.2	24.3	0.56
I11	14 May 2019	5	16.62	82.98	8.6	33.71	8.2	24.6	0.69
I11	14 May 2019	6	15.51	82.93	9.0	33.63	8.2	24.8	0.75
I11	14 May 2019	7	15.32	83.41	9.0	33.58	8.2	24.8	0.73
I11	14 May 2019	8	14.82	83.28	8.9	33.60	8.2	24.9	0.80
I11	14 May 2019	9	14.30	82.16	8.7	33.59	8.2	25.0	1.00
I11	14 May 2019	10	13.67	78.64	8.3	33.62	8.2	25.2	1.73
I11	14 May 2019	11	13.27	74.56	7.9	33.59	8.1	25.2	2.69
I11	14 May 2019	12	13.02	72.90	7.6	33.61	8.1	25.3	3.07
I11	14 May 2019	13	12.99	72.76	7.4	33.59	8.1	25.3	2.97
l12	16 May 2019	1	16.79	83.55	8.6	33.62	8.2	24.5	0.47
l12	16 May 2019	2	16.78	81.75	8.6	33.62	8.2	24.5	0.47
l12	16 May 2019	3	16.74	83.47	8.5	33.60	8.2	24.5	0.47
l12	16 May 2019	4	16.59	85.69	8.5	33.62	8.2	24.6	0.50
l12	16 May 2019	5	16.56	85.73	8.6	33.61	8.2	24.6	0.52
l12	16 May 2019	6	16.53	85.71	8.5	33.61	8.2	24.6	0.53
l12	16 May 2019	7	16.40	85.76	8.5	33.61	8.2	24.6	0.55
112	16 May 2019	8	16.41	85.75	8.5	33.61	8.2	24.6	0.57
l12	16 May 2019	9	16.15	85.84	8.4	33.63	8.2	24.7	0.58
l12	16 May 2019	10	15.79	85.94	8.5	33.60	8.2	24.7	0.61
l12	16 May 2019	11	15.53	86.04	8.4	33.62	8.2	24.8	0.63
112	16 May 2019	12	14.36	85.94	8.4	33.62	8.2	25.0	0.68
112	16 May 2019	13	14.24	85.48	8.5	33.56	8.2	25.0	0.81
112	16 May 2019	14	13.87	84.70	8.5	33.58	8.2	25.1	0.95
112	16 May 2019	15	13.76	83.54	8.4	33.56	8.2	25.1	1.24
112	16 May 2019	16	13.58	81.67	8.1	33.57	8.2	25.2	1.90
112	16 May 2019	17	13.43	81.47	7.8	33.57	8.1	25.2	2.79
112	16 May 2019	18	13.26	81.73	7.6	33.57	8.1	25.2	3.22
112	16 May 2019	19	13.19	82.04	7.5	33.57	8.1	25.2	3.59
112	16 May 2019	20	13.16	82.37	7.4	33.57	8.1	25.3	3.77
112	16 May 2019	21	13.07	82.44	7.3	33.58	8.1	25.3	3.67
112	16 May 2019	22	13.05	82.63	7.3	33.58	8.1	25.3	3.51
	10 10 2013		10.00	02.00	1.0	00.00	0.1	20.0	0.01

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
112	16 May 2019	23	12.98	83.06	7.1	33.59	8.1	25.3	3.36
12	16 May 2019	24	12.80	83.36	6.9	33.60	8.1	25.4	3.25
I12	16 May 2019	25	12.59	82.93	6.7	33.59	8.0	25.4	3.08
12	16 May 2019	26	12.46	82.74	6.5	33.61	8.0	25.4	3.06
I12	16 May 2019	27	12.33	82.30	6.3	33.61	8.0	25.4	2.91
112	16 May 2019	28	12.25	82.22	6.2	33.61	8.0	25.5	2.74
113	16 May 2019	1	16.67	85.00	8.5	33.60	8.2	24.5	0.46
113	16 May 2019	2	16.63	85.03	8.5	33.60	8.2	24.5	0.50
113	16 May 2019	3	16.63	86.24	8.5	33.61	8.2	24.5	0.49
113	16 May 2019	4	16.63	86.26	8.5	33.61	8.2	24.5	0.51
113	16 May 2019	5	16.59	86.28	8.5	33.62	8.2	24.5	0.52
113	16 May 2019	6	16.51	86.30	8.5	33.61	8.2	24.6	0.54
113	16 May 2019	7	16.53	86.30	8.5	33.61	8.2	24.6	0.55
113	16 May 2019	8	16.12	86.34	8.4	33.63	8.2	24.7	0.56
113	16 May 2019	9	16.01	86.38	8.4	33.60	8.2	24.7	0.60
113	16 May 2019	10	15.17	86.40	8.2	33.64	8.2	24.9	0.61
113	16 May 2019	11	14.76	86.44	8.4	33.56	8.2	24.9	0.64
113	16 May 2019	12	14.69	86.47	8.4	33.58	8.2	24.9	0.65
113	16 May 2019	13	14.62	86.36	8.4	33.56	8.2	24.9	0.68
113	16 May 2019	14	14.45	86.09	8.4	33.57	8.2	25.0	0.73
113	16 May 2019	15	14.35	85.80	8.3	33.56	8.2	25.0	0.77
113	16 May 2019	16	14.05	84.31	8.2	33.58	8.2	25.1	0.96
113	16 May 2019	17	13.77	81.29	8.2	33.58	8.2	25.1	1.71
113	16 May 2019	18	13.40	79.81	7.9	33.59	8.1	25.2	3.87
113	16 May 2019	19	13.21	81.39	7.5	33.59	8.1	25.3	5.02
113	16 May 2019	20	12.95	82.22	7.2	33.59	8.1	25.3	4.78
113	16 May 2019	21	12.97	82.63	7.1	33.58	8.1	25.3	4.36
113	16 May 2019	22	12.84	83.15	7.0	33.59	8.1	25.3	4.02
113	16 May 2019	23	12.79	83.78	7.0	33.59	8.1	25.3	3.77
113	16 May 2019	24	12.78	83.81	6.9	33.59	8.1	25.3	3.41
113	16 May 2019	25	12.75	83.93	6.8	33.59	8.1	25.3	3.48
113	16 May 2019	26	12.69	84.37	6.8	33.59	8.1	25.4	3.06
113	16 May 2019	27	12.67	84.40	6.8	33.59	8.1	25.4	3.07
113	16 May 2019	28	12.57	84.71	6.7	33.60	8.0	25.4	3.06
113	16 May 2019	29	12.57	84.90	6.6	33.59	8.0	25.4	2.81
113	16 May 2019	30	12.37	85.32	6.4	33.61	8.0	25.4	2.75
113	16 May 2019	31	12.26	85.85	6.3	33.60	8.0	25.5	2.38
113	16 May 2019	32	12.15	86.03	6.2	33.60	8.0	25.5	2.00
113	16 May 2019	33	12.07	86.20	6.1	33.61	8.0	25.5	2.10
113	16 May 2019	34	12.03	85.95	6.0	33.61	8.0	25.5	2.14
113	16 May 2019	35	11.78	85.10	5.8	33.64	8.0	25.6	1.80
113	16 May 2019	36	11.66	84.81	5.5	33.63	7.9	25.6	1.47
113	16 May 2019	37	11.68	84.91	5.5	33.63	7.9	25.6	1.32
I13	16 May 2019	38	11.66	84.83	5.5	33.63	7.9	25.6	1.27
114	16 May 2019	1	16.27	85.75	8.5	33.60	8.2	24.6	0.53
114	16 May 2019	1 2	16.27	85.75	8.5	33.60	8.2	24.6	0.53
114	16 May 2019 16 May 2019		16.27	85.77	8.5 8.5	33.60	8.2 8.2	24.6	0.53
114	16 May 2019 16 May 2019	3 4	16.25	85.78	8.5 8.5	33.60	8.2 8.2	24.6	0.55
114	16 May 2019 16 May 2019	4 5	16.17	85.77	8.5 8.5	33.62	8.2 8.2	24.6	0.55
		5 6			8.5 8.5		8.2 8.2	24.6	0.58
114 14	16 May 2019	6 7	15.99	85.65 85.51	8.5 8.5	33.62	8.2 8.2	24.7	0.62 0.67
114	16 May 2019		15.83	85.51 85.31	8.5 8.4	33.61	8.2 8.2	24.7	0.67
114	16 May 2019	8 9	15.85		8.4 8.3	33.60		24.7	
	16 May 2019	9 10	15.61	85.44		33.61	8.2		0.72 0.75
114	16 May 2019		15.38	85.21	8.4	33.62	8.2	24.8	
114	16 May 2019	11	14.97	84.86	8.2	33.64	8.2	24.9	0.84
114	16 May 2019	12	14.23	83.71	8.2	33.64	8.2	25.1	1.02
114	16 May 2019	13	13.64	81.60	8.1	33.62	8.1	25.2	1.40
114	16 May 2019	14	13.29	80.39	7.8	33.61	8.1	25.3	2.26
114	16 May 2019	15	13.03	81.16	7.5	33.59	8.1	25.3	3.20

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
114	16 May 2019	16	13.08	81.34	7.4	33.57	8.1	25.3	3.77
114	16 May 2019	17	12.97	81.38	7.4	33.58	8.1	25.3	4.07
14	16 May 2019	18	12.96	81.69	7.3	33.58	8.1	25.3	4.05
114	16 May 2019	19	12.96	82.20	7.3	33.58	8.1	25.3	3.90
114	16 May 2019	20	12.92	82.61	7.2	33.58	8.1	25.3	3.80
114	16 May 2019	21	12.91	82.78	7.1	33.58	8.1	25.3	3.81
14	16 May 2019	22	12.88	83.21	7.1	33.59	8.1	25.3	3.56
14	16 May 2019	23	12.87	83.34	7.0	33.59	8.1	25.3	3.28
14	16 May 2019	24	12.82	83.85	6.9	33.59	8.1	25.3	3.34
114	16 May 2019	25	12.72	83.92	6.8	33.60	8.1	25.4	3.09
114	16 May 2019	26	12.51	83.50	6.5	33.61	8.0	25.4	2.93
114	16 May 2019	27	12.23	81.69	6.2	33.63	8.0	25.5	2.77
114	16 May 2019	28	11.96	78.30	5.8	33.64	8.0	25.5	2.59
115	16 May 2019	1	16.90	79.59	8.5	33.62	8.2	24.5	0.39
115	16 May 2019	2	16.90	85.02	8.5	33.62	8.2	24.5	0.39
115	16 May 2019	3	16.90	85.72	8.5	33.62	8.2	24.5	0.39
115	16 May 2019	4	16.86	85.73	8.4	33.63	8.2	24.5	0.41
115	16 May 2019	5	16.73	85.74	8.5	33.62	8.2	24.5	0.42
I15	16 May 2019	6	16.47	85.75	8.4	33.63	8.2	24.6	0.43
I15	16 May 2019	7	16.29	85.77	8.5	33.62	8.2	24.6	0.47
115	16 May 2019	8	16.16	85.80	8.5	33.61	8.2	24.6	0.48
115	16 May 2019	9	15.81	85.84	8.3	33.62	8.2	24.7	0.50
115	16 May 2019	10	15.34	85.88	8.3	33.61	8.2	24.8	0.54
115	16 May 2019	11	14.97	85.80	8.3	33.61	8.2	24.9	0.56
115	16 May 2019	12	14.22	85.37	8.3	33.59	8.2	25.1	0.62
115	16 May 2019	13	13.75	84.21	8.3	33.58	8.2	25.1	0.83
115	16 May 2019	14	13.73	82.29	8.4	33.55	8.2	25.1	1.20
115	16 May 2019	15	13.59	81.40	8.1	33.58	8.2	25.2	1.73
115	16 May 2019	16	13.41	80.78	7.8	33.57	8.1	25.2	2.55
115	16 May 2019	17	13.25	80.96	7.6	33.59	8.1	25.2	3.06
115	16 May 2019	18	13.03	82.06	7.3	33.58	8.1	25.3	3.33
115	16 May 2019	19	13.02	82.33	7.3	33.58	8.1	25.3	3.48
115	16 May 2019	20	12.95	82.78	7.2	33.58	8.1	25.3	3.40
115	16 May 2019	21	12.94	82.88	7.1	33.58	8.1	25.3	3.42
115	16 May 2019	22	12.90	83.16	7.0	33.59	8.1	25.3	3.34
115	16 May 2019	23	12.83	83.43	6.9	33.59	8.1	25.3	3.34
115	16 May 2019	24	12.80	83.77	6.8	33.59	8.1	25.3	3.25
115	16 May 2019	25	12.63	83.55	6.7	33.60	8.1	25.4	3.11
115	16 May 2019	26	12.49	83.33	6.5	33.60	8.0	25.4	3.07
115	16 May 2019	27	12.25	82.94	6.3	33.62	8.0	25.5	2.90
115	16 May 2019	28	12.08	82.91	5.9	33.63	8.0	25.5	2.50
115	16 May 2019	29	11.87	82.14	5.6	33.63	8.0	25.6	2.18
115	16 May 2019	30	11.79	81.81	5.5	33.64	8.0	25.6	2.10
115	16 May 2019	31	11.74	80.68	5.5	33.64	7.9	25.6	1.98
	40 May 2010		40.00	04.00	0.0	00.04		04.0	0.40
116	16 May 2019	1	16.29	84.08	8.6	33.61	8.2	24.6	0.46
116	16 May 2019	2	16.30	85.47	8.6	33.60	8.2	24.6	0.46
116	16 May 2019	3	16.30	85.81	8.6	33.61	8.2	24.6	0.47
116	16 May 2019	4	16.29	85.80	8.6	33.61	8.2	24.6	0.47
116	16 May 2019	5 6	16.28	85.83	8.5	33.61	8.2	24.6	0.50
116	16 May 2019	6	16.26	85.80	8.6	33.61	8.2	24.6	0.52
116	16 May 2019	7	16.23	85.82	8.5	33.61	8.2	24.6	0.55
116	16 May 2019	8	16.13	85.83	8.5	33.61	8.2	24.6	0.57
116	16 May 2019	9	15.97	85.88	8.5	33.61	8.2	24.7	0.59
116	16 May 2019	10	15.72	85.90	8.4	33.61	8.2	24.7	0.62
116	16 May 2019	11	15.58	85.95	8.4	33.60	8.2	24.8	0.65
116	16 May 2019	12	15.17	86.02	8.2	33.62	8.2	24.9	0.66
I16	16 May 2019	13	14.15	85.94	8.3	33.62	8.2	25.1	0.72
I16	16 May 2019	14	13.83	85.31	8.4	33.56	8.2	25.1	0.88
I16	16 May 2019	15	13.80	84.41	8.4	33.56	8.2	25.1	1.05

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
116	16 May 2019	16	13.70	83.54	8.3	33.56	8.2	25.1	1.34
116	16 May 2019	17	13.66	82.37	8.3	33.56	8.2	25.1	1.84
116	16 May 2019	18	13.55	81.35	8.1	33.57	8.2	25.2	2.34
I16	16 May 2019	19	13.28	81.43	7.7	33.58	8.1	25.2	3.04
I16	16 May 2019	20	13.21	81.78	7.5	33.57	8.1	25.2	3.71
I16	16 May 2019	21	13.09	82.26	7.3	33.58	8.1	25.3	4.04
I16	16 May 2019	22	13.05	82.49	7.3	33.58	8.1	25.3	3.76
I16	16 May 2019	23	13.00	82.92	7.2	33.58	8.1	25.3	3.70
116	16 May 2019	24	12.94	82.99	7.1	33.59	8.1	25.3	3.57
116	16 May 2019	25	12.89	83.73	7.0	33.59	8.1	25.3	3.35
116	16 May 2019	26	12.62	83.61	6.7	33.62	8.1	25.4	3.15
116	16 May 2019	27	12.30	82.64	6.4	33.62	8.0	25.5	3.13
116	16 May 2019	28	12.15	81.41	6.0	33.63	8.0	25.5	2.67
				••••			0.0		
17	16 May 2019	1	16.73	85.31	8.5	33.62	8.2	24.5	0.51
117	16 May 2019	2	16.73	85.36	8.6	33.62	8.2	24.5	0.51
117	16 May 2019	3	16.71	85.37	8.5	33.62	8.2	24.5	0.52
117	16 May 2019	4	16.71	85.39	8.6	33.62	8.2	24.5	0.52
117	16 May 2019	5	16.53	85.35	8.4	33.64	8.2	24.5	0.53
117	16 May 2019	6	16.29	85.36	8.5	33.63	8.2	24.0	0.58
117	16 May 2019	7	16.29	85.28	8.5	33.63	0.2 8.2	24.0	0.58
17	16 May 2019	8 9	15.39	85.12	8.4	33.67	8.2	24.9	0.67
17	16 May 2019		14.54	85.11	8.6	33.64	8.2	25.0	0.71
117	16 May 2019	10	14.43	85.49	8.6	33.60	8.2	25.0	0.81
17	16 May 2019	11	14.07	85.25	8.5	33.57	8.2	25.1	0.87
17	16 May 2019	12	13.94	84.43	8.5	33.58	8.2	25.1	0.96
17	16 May 2019	13	13.71	83.81	8.3	33.57	8.2	25.1	1.18
17	16 May 2019	14	13.70	83.67	8.5	33.56	8.2	25.1	1.47
117	16 May 2019	15	13.68	82.61	8.4	33.56	8.2	25.1	1.69
17	16 May 2019	16	13.55	80.97	8.1	33.58	8.2	25.2	2.05
17	16 May 2019	17	13.32	81.59	7.8	33.59	8.1	25.2	2.73
17	16 May 2019	18	13.24	81.79	7.6	33.59	8.1	25.3	3.38
17	16 May 2019	19	13.11	81.80	7.3	33.59	8.1	25.3	3.53
17	16 May 2019	20	13.07	82.40	7.3	33.59	8.1	25.3	3.84
17	16 May 2019	21	12.99	82.89	7.1	33.59	8.1	25.3	3.76
17	16 May 2019	22	12.86	83.85	7.0	33.59	8.1	25.3	3.63
117	16 May 2019	23	12.78	83.92	6.8	33.60	8.1	25.4	3.21
117	16 May 2019	24	12.56	82.41	6.6	33.61	8.0	25.4	3.05
17	16 May 2019	25	12.34	81.57	6.3	33.62	8.0	25.5	2.86
	, ,								
118	16 May 2019	1	16.87	75.14	8.6	33.62	8.2	24.5	1.17
118	16 May 2019	2	16.86	77.60	8.6	33.62	8.2	24.5	1.20
118	16 May 2019	3	16.78	77.70	8.5	33.63	8.2	24.5	1.29
118	16 May 2019	4	16.67	77.29	8.5	33.63	8.2	24.5	1.65
118	16 May 2019	5	16.61	76.80	8.5	33.63	8.2	24.6	1.89
118	16 May 2019	5 6	16.39	75.53	8.3	33.64	8.2	24.6	2.21
118	16 May 2019	7	15.54	73.78	8.1	33.68	8.2	24.8	2.84
118	16 May 2019	8	14.92	76.41	8.2	33.62	8.2	24.9	3.68
118	16 May 2019	9	14.41	76.62	8.2	33.62	8.2	25.0	3.85
118	16 May 2019	10	14.22	76.88	8.2	33.59	8.2	25.0	4.17
118	16 May 2019	11	13.97	70.88	8.3	33.58	8.2	25.1	4.17
118	16 May 2019	12	13.80	78.00	8.3	33.58	8.2	25.1	4.19
118		12	13.60	78.00	8.2	33.56	0.2 8.1	25.1	4.50
	16 May 2019	13							
118	16 May 2019		13.61	77.94	8.0	33.57	8.1	25.2	4.76
118	16 May 2019	15	13.39	78.55	7.6	33.59	8.1	25.2	4.54
118	16 May 2019	16	13.17	80.73	7.2	33.60	8.1	25.3	4.01
118	16 May 2019	17	12.94	81.67	7.0	33.59	8.1	25.3	3.42
I18	16 May 2019	18	12.76	81.93	6.8	33.60	8.1	25.4	3.18
118	16 May 2019	19	12.72	81.91	6.8	33.59	8.0	25.4	2.74
12	14 May 2019	1	18.14	87.20	8.2	33.65	8.2	24.2	0.29
12	1-1 May 2019	1	10.14	01.20	0.2	55.05	0.2	24.2	0.29

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (μg/L)
12	14 May 2019	2	18.13	87.13	8.2	33.65	8.2	24.2	0.32
12	14 May 2019	3	18.07	87.15	8.2	33.65	8.2	24.2	0.32
12	14 May 2019	4	18.06	87.09	8.2	33.65	8.2	24.2	0.33
12	14 May 2019	5	18.04	87.15	8.2	33.64	8.2	24.2	0.34
12	14 May 2019	6	18.03	87.15	8.2	33.64	8.2	24.2	0.35
12	14 May 2019	7	18.00	87.16	8.2	33.64	8.2	24.2	0.38
12	14 May 2019	8	17.93	87.16	8.2	33.64	8.2	24.2	0.39
12	14 May 2019	9	17.63	87.18	8.2	33.66	8.2	24.3	0.41
12	14 May 2019	10	16.90	87.26	8.3	33.63	8.2	24.5	0.40
12	14 May 2019	11	15.96	87.21	8.5	33.65	8.2	24.7	0.42
12	14 May 2019	12	15.41	87.12	8.8	33.59	8.2	24.8	0.46
12	14 May 2019	13	15.20	86.90	8.6	33.60	8.2	24.8	0.50
12	14 May 2019	14	14.49	86.70	8.6	33.59	8.2	25.0	0.53
12	14 May 2019	15	14.18	86.42	8.7	33.56	8.2	25.0	0.64
12	14 May 2019	16	14.16	86.10	8.7	33.56	8.2	25.0	0.72
12	14 May 2019	17	13.95	85.81	8.6	33.57	8.2	25.1	0.87
12	14 May 2019	18	13.63	84.97	8.5	33.58	8.2	25.2	1.31
12	14 May 2019	19	13.36	81.84	8.3	33.58	8.1	25.2	2.70
12	14 May 2019	20	13.26	79.46	8.2	33.56	8.1	25.2	3.98
12	14 May 2019	20	13.20	79.40	8.1	33.50	8.1	25.2	4.90
12	14 May 2019	21	13.11	79.37	7.8	33.58	8.1	25.2	4.90 5.56
	-								
12	14 May 2019	23	12.95	79.20	7.5	33.58	8.1	25.3	6.15
12	14 May 2019	24	12.81	80.55	7.2	33.58	8.1	25.3	5.46
12	14 May 2019	25	12.66	82.56	6.8	33.60	8.0	25.4	4.61
12	14 May 2019	26	12.56	83.48	6.7	33.60	8.0	25.4	3.73
12	14 May 2019	27	12.51	83.97	6.6	33.60	8.0	25.4	3.47
12	14 May 2019	28	12.37	84.31	6.5	33.61	8.0	25.4	3.51
12	14 May 2019	29	12.28	84.77	6.4	33.61	8.0	25.5	3.23
12	14 May 2019	30	12.18	85.15	6.3	33.61	8.0	25.5	2.81
12	14 May 2019	31	12.04	85.69	6.0	33.63	8.0	25.5	2.40
12	14 May 2019	32	11.92	84.00	5.8	33.63	8.0	25.5	2.21
120	16 May 2019	1	17.99	85.76	8.3	33.66	8.2	24.2	0.43
120	16 May 2019	2	17.99	85.95	8.3	33.66	8.2	24.2	0.46
120	16 May 2019	3	17.99	86.13	8.3	33.66	8.2	24.2	0.46
120	16 May 2019	4	17.99	86.17	8.3	33.66	8.2	24.2	0.48
120	16 May 2019	5	18.00	86.16	8.3	33.66	8.2	24.2	0.49
120	16 May 2019	6	17.99	86.13	8.2	33.66	8.2	24.2	0.53
120	16 May 2019	7	17.98	86.16	8.3	33.66	8.2	24.2	0.52
120		8	17.96	86.16	8.2	33.66	8.2	24.2	0.52
120	16 May 2019 16 May 2019	9	17.85	86.25	8.2	33.65	8.2	24.3	0.52
120	16 May 2019	10	16.86	86.64	8.2	33.74	8.2	24.6	0.52
120	16 May 2019	10	15.57	87.14	8.6	33.60	8.2	24.0	0.50
120	•	12	15.57	87.14 87.10	8.7	33.50	8.2	24.0	0.50
	16 May 2019						8.2 8.2		
120	16 May 2019	13 14	15.49	87.00	8.7	33.58		24.8	0.49
120	16 May 2019	14 15	15.34	86.92	8.7	33.57	8.2	24.8	0.48
120	16 May 2019	15	15.26	87.07	8.7	33.57	8.2	24.8	0.50
120	16 May 2019	16	15.10	87.08	8.6	33.57	8.2	24.8	0.48
120	16 May 2019	17	15.05	86.99	8.5	33.57	8.2	24.9	0.49
120	16 May 2019	18	14.81	87.04	8.4	33.59	8.2	24.9	0.51
120	16 May 2019	19	14.44	86.98	8.4	33.58	8.2	25.0	0.56
120	16 May 2019	20	14.14	86.67	8.4	33.58	8.2	25.1	0.63
120	16 May 2019	21	14.01	86.25	8.3	33.58	8.2	25.1	0.76
120	16 May 2019	22	13.89	85.40	8.3	33.57	8.2	25.1	1.02
120	16 May 2019	23	13.76	84.67	8.2	33.58	8.2	25.1	1.40
120	16 May 2019	24	13.43	81.83	8.0	33.60	8.1	25.2	2.30
120	16 May 2019	25	13.31	80.43	7.8	33.57	8.1	25.2	4.13
120	16 May 2019	26	13.15	80.85	7.5	33.59	8.1	25.3	4.54
120	16 May 2019	27	13.01	82.94	7.2	33.59	8.1	25.3	4.36
120	16 May 2019	28	12.91	84.01	7.0	33.59	8.1	25.3	3.50
120	16 May 2019	29	12.70	84.89	6.8	33.59	8.1	25.4	2.78
Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
---------	-------------	-----------	-----------	--------------	-----------	-----------	-----	------------	--------------
120	16 May 2019	30	12.61	85.13	6.7	33.59	8.0	25.4	2.72
120	16 May 2019	31	12.63	85.34	6.7	33.59	8.0	25.4	2.40
120	16 May 2019	32	12.52	85.52	6.6	33.60	8.0	25.4	2.20
120	16 May 2019	33	12.51	85.56	6.5	33.60	8.0	25.4	2.26
120	16 May 2019	34	12.27	86.14	6.3	33.62	8.0	25.5	2.32
120	16 May 2019	35	12.23	86.64	6.1	33.60	8.0	25.5	1.85
120	16 May 2019	36	12.08	86.95	6.0	33.62	8.0	25.5	1.63
120	16 May 2019	37	12.03	87.03	5.9	33.61	8.0	25.5	1.50
120	16 May 2019	38	12.00	87.02	5.9	33.61	8.0	25.5	1.41
120	16 May 2019	39	11.94	87.20	5.9	33.61	8.0	25.5	1.40
120	16 May 2019	40	11.88	87.27	5.9	33.61	8.0	25.5	1.40
120	16 May 2019	41	11.82	87.55	5.9	33.61	8.0	25.5	1.36
120	16 May 2019	42	11.72	87.82	5.8	33.62	8.0	25.6	1.11
120	16 May 2019	43	11.70	87.78	5.8	33.62	8.0	25.6	1.02
120	16 May 2019	44	11.68	87.88	5.7	33.62	8.0	25.6	0.99
120	16 May 2019	45	11.66	87.96	5.6	33.62	7.9	25.6	0.92
120	16 May 2019	46	11.58	87.96	5.5	33.65	7.9	25.6	0.97
120	16 May 2019	47	11.47	87.96	5.4	33.66	7.9	25.6	0.95
120	16 May 2019	48	11.41	88.09	5.3	33.66	7.9	25.7	0.79
120	16 May 2019	49	11.38	88.20	5.3	33.66	7.9	25.7	0.77
120	16 May 2019	50	11.31	88.29	5.2	33.67	7.9	25.7	0.78
120	16 May 2019	51	11.25	88.10	5.2	33.67	7.9	25.7	0.77
120	16 May 2019	52	11.20	88.00	5.1	33.68	7.9	25.7	0.65
120	16 May 2019	53	11.12	87.64	5.0	33.68	7.9	25.7	0.65
120	16 May 2019	54	11.10	87.23	5.0	33.69	7.9	25.7	0.63
120	16 May 2019	55	11.10	87.26	5.0	33.69	7.9	25.7	0.65
121	16 May 2019	1	17.89	85.42	8.4	33.66	8.2	24.3	0.53
121	16 May 2019	2	17.90	85.39	8.4	33.66	8.2	24.3	0.53
121	16 May 2019	3	17.85	85.39	8.4	33.66	8.2	24.3	0.57
121	16 May 2019	4	17.60	85.42	8.4	33.67	8.2	24.4	0.58
121	16 May 2019	5	16.93	85.48	8.4	33.67	8.2	24.5	0.60
121	16 May 2019	6	15.47	86.39	8.6	33.67	8.2	24.8	0.58
121	16 May 2019	7	14.98	86.95	8.7	33.57	8.2	24.9	0.52
121	16 May 2019	8	14.89	86.93	8.6	33.57	8.1	24.9	0.53
121	16 May 2019	9	14.74	86.90	8.4	33.56	8.1	24.9	0.54
121	16 May 2019	10	14.63	86.74	8.4	33.56	8.1	24.9	0.57
121	16 May 2019	11	14.60	86.65	8.4	33.55	8.1	24.9	0.58
121	16 May 2019	12	14.51	86.56	8.4	33.56	8.1	25.0	0.63
121	16 May 2019	13	14.44	86.37	8.4	33.56	8.1	25.0	0.64
121	16 May 2019	14	14.29	86.16	8.3	33.57	8.1	25.0	0.68
121	16 May 2019	15	14.04	85.41	8.2	33.56	8.1	25.1	0.90
121	16 May 2019	16	13.80	82.70	8.1	33.59	8.1	25.1	1.62
121	16 May 2019	17	13.40	80.16	7.8	33.58	8.1	25.2	3.74
121	16 May 2019	18	13.32	79.63	7.5	33.58	8.1	25.2	5.00
121	16 May 2019	19	13.08	81.87	7.3	33.59	8.1	25.3	4.98
121	16 May 2019	20	13.02	83.12	7.2	33.58	8.1	25.3	4.14
121	16 May 2019	21	12.92	83.51	7.0	33.59	8.1	25.3	3.49
121	16 May 2019	22	12.75	84.38	6.9	33.58	8.0	25.3	3.46
121	16 May 2019	23	12.71	84.78	6.8	33.59	8.0	25.4	3.15
121	16 May 2019	24	12.54	85.37	6.7	33.59	8.0	25.4	2.61
121	16 May 2019	25	12.47	85.62	6.5	33.59	8.0	25.4	2.31
121	16 May 2019	26	12.39	85.86	6.4	33.60	8.0	25.4	2.21
121	16 May 2019	27	12.34	85.99	6.4	33.60	8.0	25.4	2.23
121	16 May 2019	28	12.32	85.99	6.4	33.60	8.0	25.4	1.96
121	16 May 2019	29	12.31	86.18	6.4	33.60	8.0	25.4	1.96
121	16 May 2019	30	12.30	86.25	6.3	33.60	8.0	25.4	1.89
121	16 May 2019	31	12.29	86.24	6.3	33.60	8.0	25.4	1.84
121	16 May 2019	32	12.27	86.27	6.3	33.60	8.0	25.4	1.86
121	16 May 2019	33	12.26	86.27	6.3	33.60	8.0	25.5	1.71
l21	16 May 2019	34	12.22	86.34	6.2	33.61	8.0	25.5	1.59

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
121	16 May 2019	35	12.13	86.37	6.1	33.61	8.0	25.5	1.55
121	16 May 2019	36	11.93	86.67	6.0	33.62	8.0	25.5	1.61
121	16 May 2019	37	11.78	86.84	5.9	33.62	8.0	25.6	1.41
21	16 May 2019	38	11.70	86.98	5.7	33.62	7.9	25.6	1.12
21	16 May 2019	39	11.67	86.93	5.6	33.62	7.9	25.6	1.12
21	16 May 2019	40	11.62	86.90	5.5	33.63	7.9	25.6	0.95
I21	16 May 2019	41	11.60	86.75	5.4	33.63	7.9	25.6	0.90
122	16 May 2019	1	16.95	84.82	8.6	33.62	8.2	24.5	0.56
122	16 May 2019	2	16.92	84.86	8.5	33.63	8.2	24.5	0.58
122	16 May 2019	3	16.79	84.99	8.6	33.62	8.2	24.5	0.62
122	16 May 2019	4	16.54	85.05	8.5	33.64	8.2	24.6	0.63
122	16 May 2019	5	16.32	85.07	8.6	33.60	8.2	24.6	0.66
122	16 May 2019	6	15.98	85.16	8.3	33.66	8.2	24.7	0.66
122	16 May 2019	7	14.76	85.92	8.6	33.60	8.2	24.9	0.66
122	16 May 2019	8	14.56	86.03	8.5	33.58	8.2	25.0	0.69
122	16 May 2019	9	14.08	85.81	8.4	33.57	8.2	25.1	0.77
122	16 May 2019	10	13.98	85.19	8.4	33.56	8.2	25.1	0.92
122	16 May 2019	11	13.73	84.37	8.3	33.56	8.1	25.1	1.18
122	16 May 2019	12	13.60	83.66	8.3	33.56	8.1	25.2	1.47
122	16 May 2019	13	13.52	82.00	8.1	33.56	8.1	25.2	2.06
122	16 May 2019	14	13.52	81.36	8.2	33.56	8.1	25.2	2.66
122	16 May 2019	15	13.48	80.77	8.0	33.56	8.1	25.2	3.23
122	16 May 2019	16	13.33	80.39	7.8	33.57	8.1	25.2	3.60
122	16 May 2019	17	13.23	81.00	7.6	33.58	8.1	25.2	4.09
122	16 May 2019	18	13.08	81.70	7.4	33.58	8.1	25.2	4.03
122	16 May 2019	19	13.00	82.27	7.4	33.58	8.1	25.3	3.77
122	16 May 2019	20	12.95	82.75	7.2	33.58	8.1	25.3	3.50
122	16 May 2019	20	12.95	83.20	7.1	33.58	8.1	25.3	3.57
122					7.1		8.1		
	16 May 2019	22	12.87	83.41		33.59		25.3	3.00
122	16 May 2019	23	12.78	83.85	6.9	33.59	8.1	25.3	2.88
122	16 May 2019	24	12.76	84.02	6.8	33.59	8.0	25.3	2.75
122	16 May 2019	25	12.60	84.43	6.6	33.60	8.0	25.4	2.77
122	16 May 2019	26	12.40	83.68	6.4	33.61	8.0	25.4	2.74
122	16 May 2019	27	12.29	82.52	6.2	33.61	8.0	25.5	2.57
122	16 May 2019	28	12.04	81.36	5.8	33.64	8.0	25.5	2.39
100	16 May 2010	1	16.60	91 56	9.6	22.62	0.0	24 5	0.00
123	16 May 2019	1	16.62	81.56	8.6	33.62	8.2	24.5	0.88
123	16 May 2019	2	16.63	81.67	8.6	33.62	8.2	24.5	0.89
123	16 May 2019	3	16.63	81.61	8.6	33.62	8.2	24.5	0.94
123	16 May 2019	4	16.61	81.64	8.5	33.62	8.2	24.5	1.04
123	16 May 2019	5	16.60	81.66	8.6	33.63	8.2	24.6	1.13
123	16 May 2019	6	16.46	81.82	8.5	33.63	8.2	24.6	1.24
123	16 May 2019	7	16.33	81.70	8.5	33.62	8.2	24.6	1.38
123	16 May 2019	8	16.32	81.65	8.5	33.62	8.2	24.6	1.46
123	16 May 2019	9	15.80	81.26	8.2	33.67	8.2	24.8	1.67
123	16 May 2019	10	14.44	78.57	8.4	33.66	8.2	25.1	2.21
123	16 May 2019	11	14.62	76.09	8.5	33.57	8.2	25.0	3.10
123	16 May 2019	12	14.12	75.57	8.3	33.60	8.2	25.1	3.94
123	16 May 2019	13	14.12	75.38	8.3	33.58	8.2	25.1	4.83
123	16 May 2019	14	14.08	75.28	8.2	33.58	8.2	25.1	5.08
123	16 May 2019	15	14.06	75.44	8.1	33.58	8.2	25.1	5.32
123	16 May 2019	16	14.05	75.80	8.1	33.59	8.1	25.1	5.36
123	16 May 2019	17	13.83	76.96	7.8	33.61	8.1	25.2	5.10
123	16 May 2019	18	13.10	81.92	7.3	33.61	8.1	25.3	4.35
123	16 May 2019	19	13.02	82.21	7.1	33.59	8.1	25.3	3.42
123	16 May 2019	20	13.00	82.28	7.1	33.59	8.1	25.3	3.10
123	16 May 2019	21	12.98	82.53	7.1	33.58	8.1	25.3	2.91
									,
127	16 May 2019	1	16.12	80.55	8.5	33.60	8.2	24.6	1.28
127	16 May 2019	2	16.17	80.87	8.4	33.62	8.2	24.6	1.29

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (μg/L)
127	16 May 2019	3	16.10	80.84	8.4	33.62	8.2	24.7	1.30
I27	16 May 2019	4	15.98	80.87	8.3	33.65	8.2	24.7	1.32
I27	16 May 2019	5	15.54	80.88	8.3	33.62	8.2	24.8	1.43
I27	16 May 2019	6	14.43	82.43	8.3	33.67	8.2	25.1	1.45
I27	16 May 2019	7	13.95	84.07	8.5	33.57	8.1	25.1	1.29
127	16 May 2019	8	13.80	83.93	8.4	33.57	8.1	25.1	1.31
127	16 May 2019	9	13.52	81.62	8.3	33.57	8.1	25.2	1.74
127	16 May 2019	10	13.38	80.86	8.0	33.58	8.1	25.2	2.39
127	16 May 2019	11	13.15	81.21	7.6	33.58	8.1	25.3	3.07
127	16 May 2019	12	13.15	81.36	7.5	33.57	8.1	25.3	3.75
127	16 May 2019	13	13.12	82.04	7.4	33.58	8.1	25.3	3.79
127	16 May 2019	14	12.99	82.22	7.2	33.58	8.1	25.3	3.62
127	16 May 2019	15	12.97	82.36	7.2	33.58	8.1	25.3	3.98
127	16 May 2019	16	12.86	82.24	7.0	33.59	8.1	25.3	4.13
127	16 May 2019	17	12.78	82.58	6.8	33.59	8.1	25.3	4.11
127	16 May 2019	18	12.77	82.86	6.8	33.58	8.0	25.3	3.67
127	16 May 2019	19	12.71	83.22	6.8	33.59	8.0	25.4	3.56
127	16 May 2019	20	12.59	84.20	6.6	33.60	8.0	25.4	3.16
127	16 May 2019	21	12.52	84.56	6.6	33.60	8.0	25.4	2.84
127	16 May 2019	22	12.52	84.67	6.6	33.59	8.0	25.4	2.54
127	16 May 2019	23	12.49	84.70	6.5	33.59	8.0	25.4	2.42
127	16 May 2019	23	12.49	84.94	6.5	33.60	8.0	25.4	2.42
127		24	12.40	85.02	6.4	33.60	8.0	25.4	2.45
	16 May 2019						1		
127	16 May 2019	26	12.30	85.26	6.2	33.61	8.0	25.5	2.09
127	16 May 2019	27	12.01	84.10	6.0	33.62	8.0	25.5	1.81
127	16 May 2019	28	11.97	81.94	5.8	33.62	8.0	25.5	1.92
128	15 May 2019	1	18.44	86.41	8.3	33.66	8.2	24.1	0.61
128	15 May 2019	2	18.35	86.36	8.3	33.66	8.2	24.2	0.62
128	15 May 2019	3	18.26	86.49	8.4	33.65	8.2	24.2	0.62
128	15 May 2019	4	18.11	86.61	8.3	33.65	8.2	24.2	0.61
128	15 May 2019		17.85	86.73	8.3	33.65	8.2	24.3	0.60
128	15 May 2019	5 6	17.22	86.88	8.4	33.66	8.2	24.4	0.60
128	15 May 2019	7	16.25	86.80	8.8	33.63	8.2	24.6	0.64
128	15 May 2019	8	15.92	86.83	8.7	33.60	8.2	24.7	0.61
128	15 May 2019	9	15.64	87.01	8.7	33.58	8.2	24.7	0.62
128	15 May 2019	10	15.44	87.16	8.5	33.58	8.2	24.8	0.61
128	15 May 2019	11	15.18	87.13	8.5	33.58	8.2	24.8	0.59
120	15 May 2019	12	15.07	87.14	8.5	33.57	8.2	24.9	0.59
128 128	15 May 2019	13 14	14.94 14.79	87.19	8.4 8.4	33.57 33.57	8.2 8.2	24.9 24.9	0.59 0.63
120	15 May 2019 15 May 2019	14	14.79	87.19 87.08	0.4 8.4	33.57	0.2 8.2	24.9	0.63
		15	14.67		0.4 8.4		1	24.9	0.65
128	15 May 2019			86.95		33.57	8.2		
128	15 May 2019	17	14.36	86.71	8.4	33.57	8.2	25.0	0.70
128	15 May 2019	18	14.23	86.65	8.4	33.57	8.2	25.0	0.74
128	15 May 2019	19	14.12	86.37	8.3	33.58	8.2	25.1	0.97
128	15 May 2019	20	13.74	85.27	8.0	33.58	8.1	25.1	1.79
128	15 May 2019	21	13.57	83.64	7.9	33.58	8.1	25.2	2.85
128	15 May 2019	22	13.35	82.39	7.6	33.59	8.1	25.2	3.66
128	15 May 2019	23	13.08	82.16	7.3	33.59	8.1	25.3	3.66
128	15 May 2019	24	13.06	83.16	7.2	33.58	8.1	25.3	3.21
128	15 May 2019	25	12.97	83.71	7.1	33.59	8.1	25.3	3.16
128	15 May 2019	26	12.99	83.65	7.0	33.58	8.1	25.3	3.04
128	15 May 2019	27	12.82	84.18	6.9	33.60	8.1	25.3	2.81
I28	15 May 2019	28	12.71	84.61	6.8	33.59	8.0	25.4	2.70
I28	15 May 2019	29	12.67	84.76	6.7	33.59	8.0	25.4	2.44
128	15 May 2019	30	12.51	84.84	6.6	33.60	8.0	25.4	2.50
128	15 May 2019	31	12.38	85.46	6.4	33.60	8.0	25.4	2.29
128	15 May 2019	32	12.28	86.15	6.3	33.60	8.0	25.5	2.02
128	15 May 2019	33	12.16	86.33	6.2	33.60	8.0	25.5	1.83
128	15 May 2019	34	12.15	86.70	6.2	33.60	8.0	25.5	1.74

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
128	15 May 2019	35	12.06	87.11	6.0	33.61	8.0	25.5	1.55
128	15 May 2019	36	11.95	87.28	5.9	33.62	8.0	25.5	1.41
128	15 May 2019	37	11.89	87.53	5.9	33.62	8.0	25.5	1.24
128	15 May 2019	38	11.84	87.74	5.8	33.62	8.0	25.5	1.26
128	15 May 2019	39	11.80	87.83	5.8	33.62	8.0	25.6	1.25
128	15 May 2019	40	11.63	87.88	5.8	33.62	8.0	25.6	1.19
128	15 May 2019	41	11.58	88.01	5.8	33.61	8.0	25.6	1.24
128	15 May 2019	42	11.53	88.09	5.8	33.62	7.9	25.6	1.02
128	15 May 2019	43	11.46	88.09	5.6	33.63	7.9	25.6	0.98
128	15 May 2019	44	11.44	88.06	5.5	33.64	7.9	25.6	0.96
128	15 May 2019	45	11.43	88.03	5.4	33.64	7.9	25.6	0.92
128	15 May 2019	46	11.43	87.81	5.4	33.64	7.9	25.6	0.89
120	15 May 2019	47	11.42	87.81	5.3	33.65	7.9	25.6	0.95
120	15 May 2019	48	11.41	87.76	5.2	33.65	7.9	25.7	0.97
128	15 May 2019	40	11.35	87.52	5.2	33.66	7.9	25.7	0.97
128				87.33	5.1			25.7	
	15 May 2019	50	11.33			33.66	7.9		0.94
128	15 May 2019	51	11.28	87.15	5.1	33.66	7.9	25.7	0.89
128	15 May 2019	52	11.25	86.98	5.0	33.67	7.9	25.7	0.87
128	15 May 2019	53	11.20	86.66	5.0	33.67	7.9	25.7	0.90
128	15 May 2019	54	11.17	86.15	5.0	33.67	7.9	25.7	0.83
128	15 May 2019	55	11.17	85.27	5.0	33.67	7.9	25.7	0.81
100			40.55	0.1.00		00.0-			
129	15 May 2019	1	18.50	84.66	8.5	33.65	8.2	24.1	0.74
129	15 May 2019	2	18.39	84.75	8.5	33.66	8.2	24.2	0.77
129	15 May 2019	3	18.19	85.36	8.5	33.65	8.2	24.2	0.80
129	15 May 2019	4	18.07	85.43	8.5	33.65	8.2	24.2	0.78
129	15 May 2019	5	17.77	85.32	8.5	33.67	8.2	24.3	0.87
129	15 May 2019	6	17.11	85.01	8.6	33.67	8.2	24.5	0.99
129	15 May 2019	7	16.40	84.29	8.9	33.65	8.2	24.6	1.09
129	15 May 2019	8	16.06	83.62	8.9	33.62	8.2	24.7	1.17
129	15 May 2019	9	15.67	83.00	8.8	33.62	8.2	24.8	1.25
129	15 May 2019	10	15.14	82.65	8.7	33.62	8.2	24.9	1.32
129	15 May 2019	11	14.43	82.55	8.6	33.61	8.2	25.0	1.40
129	15 May 2019	12	14.04	82.86	8.4	33.56	8.2	25.1	1.49
129	15 May 2019	13	13.90	83.81	8.3	33.56	8.1	25.1	1.70
129	15 May 2019	14	13.77	84.13	8.2	33.56	8.1	25.1	1.99
129	15 May 2019	15	13.56	83.50	7.8	33.58	8.1	25.2	2.38
129	15 May 2019	16	13.30	82.89	7.6	33.57	8.1	25.2	2.80
129	15 May 2019	17	13.19	82.82	7.3	33.58	8.1	25.3	3.00
129	15 May 2019	18	12.96	82.95	7.1	33.59	8.1	25.3	2.98
129	15 May 2019	19	12.89	83.61	7.0	33.58	8.1	25.3	2.90
129	15 May 2019	20	12.83	84.08	6.8	33.58	8.0	25.3	2.77
129	15 May 2019	20	12.03	84.21	6.8	33.59	8.0	25.3	2.80
129		21	12.74	84.21 84.29	6.8	33.59	8.0 8.0	25.4	2.80
	15 May 2019								
129	15 May 2019	23	12.60	84.10	6.7	33.59	8.0	25.4	2.82
129	15 May 2019	24	12.55	84.52	6.6	33.59	8.0	25.4	2.62
129	15 May 2019	25	12.51	84.92	6.5	33.59	8.0	25.4	2.54
129	15 May 2019	26	12.37	85.26	6.4	33.60	8.0	25.4	2.25
129	15 May 2019	27	12.26	85.60	6.3	33.60	8.0	25.5	2.08
129	15 May 2019	28	12.20	85.91	6.3	33.60	8.0	25.5	1.97
129	15 May 2019	29	12.20	86.31	6.2	33.60	8.0	25.5	1.95
129	15 May 2019	30	12.01	86.35	6.1	33.63	8.0	25.5	1.54
129	15 May 2019	31	11.75	86.89	6.0	33.61	8.0	25.6	1.34
129	15 May 2019	32	11.68	87.46	6.0	33.60	8.0	25.6	1.22
129	15 May 2019	33	11.66	87.65	5.9	33.61	8.0	25.6	1.16
129	15 May 2019	34	11.55	86.69	5.6	33.63	7.9	25.6	1.11
129	15 May 2019	35	11.53	85.25	5.4	33.64	7.9	25.6	1.11
129	15 May 2019	36	11.53	84.03	5.2	33.64	7.9	25.6	1.15
129	15 May 2019	37	11.52	82.92	5.2	33.65	7.9	25.6	1.20
129	15 May 2019	38	11.52	80.92	5.2	33.65	7.9	25.6	1.41
	1	1		1	I		I	1	

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (μg/L)
13	14 May 2019	1	18.25	85.86	8.4	33.65	8.2	24.2	0.41
13	14 May 2019	2	18.22	85.70	8.4	33.66	8.2	24.2	0.42
13	14 May 2019	3	18.15	85.53	8.4	33.65	8.2	24.2	0.46
13	14 May 2019	4	18.06	85.56	8.3	33.66	8.2	24.2	0.50
13	14 May 2019	5 6	17.56	85.59	8.4	33.66	8.2	24.4	0.54
13	14 May 2019	6	17.31	86.24	8.5	33.63	8.2	24.4	0.51
13	14 May 2019	7	17.15	86.71	8.5	33.62	8.2	24.4	0.47
13	14 May 2019	8	16.95	86.91	8.5	33.62	8.2	24.5	0.44
13	14 May 2019	9	16.62	86.93	8.5	33.62	8.2	24.5	0.46
13	14 May 2019	10	16.09	86.94	8.5	33.62	8.2	24.7	0.47
13	14 May 2019	11	15.48	86.94	8.7	33.60	8.2	24.8	0.50
13	14 May 2019	12	15.12	86.93	8.7	33.59	8.2	24.9	0.52
13	14 May 2019	13	14.72	86.84	8.8	33.59	8.2	24.9	0.59
13	14 May 2019	14	14.50	86.75	8.8	33.56	8.2	25.0	0.65
13	14 May 2019	15	14.43	86.72	8.8	33.56	8.2	25.0	0.67
13	14 May 2019	16	14.20	86.71	8.6	33.57	8.2	25.0	0.72
13	14 May 2019	17	13.69	85.70	8.6	33.59	8.2	25.2	1.23
13	14 May 2019	18	13.49	82.19	8.6	33.57	8.1	25.2	2.31
13	14 May 2019	19	13.34	79.53	8.4	33.58	8.1	25.2	3.77
13	14 May 2019	20	13.06	76.55	8.1	33.59	8.1	25.3	5.77
13	14 May 2019	21	12.79	76.05	7.8	33.56	8.1	25.3	7.43
13	14 May 2019	22	12.62	78.50	7.1	33.60	8.1	25.4	6.70
13	14 May 2019	23	12.04	82.35	6.3	33.63	8.0	25.5	4.86
13	14 May 2019	24	11.92	83.61	5.9	33.62	8.0	25.5	3.16
13	14 May 2019	25	11.89	83.69	5.8	33.62	8.0	25.5	2.54
13	14 May 2019	26	11.88	83.34	5.8	33.62	8.0	25.5	2.33
13	14 May 2019	27	11.90	83.42	5.8	33.62	8.0	25.5	2.74
130	15 May 2019	1	18.49	83.22	8.6	33.66	8.2	24.1	0.90
130	15 May 2019	2	18.40	83.20	8.6	33.67	8.2	24.2	0.97
130	15 May 2019	3	18.02	82.90	8.6	33.66	8.2	24.2	1.21
130	15 May 2019	4	17.75	81.39	8.5	33.65	8.2	24.3	1.52
130	15 May 2019	5	17.27	79.54	8.2	33.67	8.2	24.4	1.86
130	15 May 2019	5 6	16.43	77.69	8.0	33.72	8.2	24.7	2.14
130	15 May 2019	7	14.64	77.79	8.1	33.74	8.2	25.1	2.32
130	15 May 2019	8	13.82	79.29	8.3	33.59	8.1	25.1	2.78
130	15 May 2019	9	13.73	79.83	8.2	33.56	8.1	25.1	3.09
130	15 May 2019	10	13.54	80.11	8.0	33.57	8.1	25.2	3.42
130	15 May 2019	11	13.32	80.20	7.8	33.56	8.1	25.2	3.62
130	15 May 2019	12	13.31	80.48	7.7	33.55	8.1	25.2	3.71
130	15 May 2019	13	13.29	80.90	7.6	33.56	8.1	25.2	3.68
130	15 May 2019	14	13.23	81.10	7.5	33.56	8.1	25.2	3.62
130	15 May 2019	15	13.18	81.51	7.5	33.57	8.1	25.2	3.53
130	15 May 2019	16	13.13	81.74	7.4	33.57	8.1	25.3	3.35
130	15 May 2019	17	13.02	82.03	7.2	33.58	8.1	25.3	3.36
130	15 May 2019	18	12.89	82.22	7.0	33.59	8.1	25.3	3.46
130	15 May 2019	19	12.79	82.70	6.9	33.59	8.1	25.3	3.16
130	15 May 2019	20	12.66	83.63	6.7	33.60	8.0	25.4	3.12
130	15 May 2019	21	12.36	83.25	6.6	33.60	8.0	25.4	2.98
130	15 May 2019	22	12.31	84.16	6.5	33.59	8.0	25.4	2.72
130	15 May 2019	23	12.25	84.16	6.4	33.60	8.0	25.5	2.71
130	15 May 2019	24	12.20	84.32	6.3	33.60	8.0	25.5	2.75
130	15 May 2019	24	12.20	83.96	6.2	33.60	8.0	25.5	3.05
130	15 May 2019	26	12.09	82.67	5.9	33.63	8.0	25.5	2.94
130	15 May 2019	20	12.09	81.93	5.6	33.65	8.0	25.5	2.94
130	15 May 2019	28	11.79	77.91	5.3	33.65	7.9	25.6	2.45
131	15 May 2019	1	17.88	78.71	8.6	33.63	8.2	24.3	1.68
I31 I31		2	17.88	78.58	8.5	33.63	0.2 8.2	24.3	1.78
13 I 131	15 May 2019		17.88					24.3	
13 I 131	15 May 2019	3 4		78.24	8.4	33.67	8.2		1.97
131	15 May 2019	4	16.56	78.40	8.6	33.70	8.2	24.6	1.91

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
131	15 May 2019	5	15.28	80.67	8.7	33.64	8.2	24.9	1.69
131	15 May 2019	6	14.69	81.86	8.5	33.63	8.2	25.0	1.73
131	15 May 2019	7	13.93	82.12	8.5	33.59	8.1	25.1	2.22
131	15 May 2019	8	13.70	81.29	8.3	33.56	8.1	25.1	2.74
131	15 May 2019	9	13.55	80.82	8.2	33.56	8.1	25.2	3.22
131	15 May 2019	10	13.44	79.82	8.2	33.55	8.1	25.2	3.88
131	15 May 2019	11	13.41	79.23	8.2	33.55	8.1	25.2	4.79
131	15 May 2019	12	13.41	78.11	8.1	33.56	8.1	25.2	5.10
131	15 May 2019	13	13.40	77.64	8.1	33.56	8.1	25.2	5.24
131	15 May 2019	14	13.39	77.28	8.1	33.56	8.1	25.2	5.36
131	15 May 2019	15	13.37	77.08	7.9	33.57	8.1	25.2	5.15
131	15 May 2019	16	13.17	77.14	7.5	33.59	8.1	25.3	5.07
131	15 May 2019	17	12.87	78.84	7.2	33.60	8.1	25.3	4.63
131	15 May 2019	18	12.59	79.86	6.9	33.61	8.1	25.4	4.53
131	15 May 2019	19	12.33	78.97	6.3	33.64	8.0	25.5	4.31
151	15 May 2019	19	12.20	10.91	0.0	55.04	0.0	20.0	4.51
133	15 May 2019	1	18.38	82.74	8.7	33.65	8.2	24.1	0.94
133	15 May 2019	2	18.38	82.91	8.7	33.65	8.2	24.1	0.95
133	15 May 2019	3	18.38	83.56	8.5	33.66	8.2	24.2	0.96
133	15 May 2019	4	17.06	83.58	8.8	33.72	8.2	24.5	1.14
133	15 May 2019	5	16.09	82.67	9.0	33.65	8.2	24.7	1.49
133	15 May 2019	6	15.79	81.67	8.8	33.62	8.2	24.7	1.49
		7						24.7	
133	15 May 2019		15.08	80.93	8.6	33.64	8.2		2.15
133	15 May 2019	8	14.73	80.42	8.5	33.58	8.2	24.9	2.45
133	15 May 2019	9	14.66	79.92	8.4	33.58	8.2	25.0	2.77
133	15 May 2019	10	14.55	79.71	8.3	33.58	8.1	25.0	2.97
133	15 May 2019	11	14.50	79.44	8.2	33.58	8.1	25.0	3.23
133	15 May 2019	12	14.30	79.18	8.1	33.61	8.1	25.0	3.17
133	15 May 2019	13	13.75	79.95	8.0	33.60	8.1	25.2	3.14
133	15 May 2019	14	13.51	80.79	7.8	33.58	8.1	25.2	3.27
133	15 May 2019	15	13.31	80.88	7.6	33.58	8.1	25.2	3.39
133	15 May 2019	16	13.19	81.22	7.4	33.57	8.1	25.2	3.43
133	15 May 2019	17	13.00	81.73	7.2	33.59	8.1	25.3	3.36
133	15 May 2019	18	12.78	82.52	6.9	33.59	8.0	25.3	3.10
133	15 May 2019	19	12.67	82.96	6.7	33.59	8.0	25.4	2.98
133	15 May 2019	20	12.62	82.87	6.6	33.59	8.0	25.4	2.85
133	15 May 2019	21	12.44	83.68	6.5	33.61	8.0	25.4	2.58
133	15 May 2019	22	12.29	84.70	6.3	33.60	8.0	25.4	2.17
133	15 May 2019	23	12.27	84.93	6.2	33.60	8.0	25.4	1.85
133		23	12.23	84.98	6.2	33.60	8.0	25.5	1.77
133	15 May 2019 15 May 2019	25	12.23	85.36	6.1	33.60	8.0	25.5	1.70
						33.64			
133	15 May 2019	26	11.95	85.75	5.9 5.6		8.0	25.5	1.57
133	15 May 2019	27	11.64	85.02	5.6	33.64	7.9	25.6	1.29
133	15 May 2019	28	11.62	84.43	5.4	33.63	7.9	25.6	1.18
133	15 May 2019	29	11.62	83.64	5.4	33.63	7.9	25.6	1.11
133	15 May 2019	30	11.62	81.07	5.5	33.63	7.9	25.6	1.14
134	15 May 2019	1	17.60	80.32	8.6	33.63	8.2	24.3	1.55
134 134	15 May 2019 15 May 2019		17.60	80.32 79.96	8.6	33.63	8.2 8.2	24.3	1.55
		2 3							
134	15 May 2019	3	17.20	78.09	8.2	33.64	8.2	24.4	2.20
134	15 May 2019	4	16.95	72.96	8.0	33.63	8.1	24.5	2.75
134	15 May 2019	5	16.73	70.58	7.9	33.62	8.1	24.5	3.06
134	15 May 2019	6	16.46	70.50	7.9	33.63	8.1	24.6	3.13
134	15 May 2019	7	16.10	72.18	8.0	33.62	8.1	24.7	2.96
134	15 May 2019	8	15.74	74.35	8.2	33.62	8.1	24.7	2.70
134	15 May 2019	9	15.53	77.08	8.4	33.60	8.2	24.8	2.37
134	15 May 2019	10	15.42	77.80	8.4	33.60	8.2	24.8	2.19
134	15 May 2019	11	15.10	78.65	8.4	33.61	8.2	24.9	2.35
134	15 May 2019	12	15.02	78.71	8.2	33.60	8.1	24.9	2.45
134	15 May 2019	13	14.31	78.52	7.6	33.66	8.1	25.1	2.65
	15 May 2019	14	12.82	81.05	6.9	33.64	8.1	25.4	2.85

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
134	15 May 2019	15	12.65	83.66	6.7	33.58	8.0	25.4	2.46
134	15 May 2019	16	12.48	84.24	6.5	33.60	8.0	25.4	2.25
134	15 May 2019	17	12.29	84.17	6.2	33.60	8.0	25.4	1.99
134	15 May 2019	18	12.13	82.40	6.0	33.61	8.0	25.5	1.85
134	15 May 2019	19	12.08	80.54	5.9	33.61	8.0	25.5	1.90
	-								
135	15 May 2019	1	17.81	78.10	8.6	33.64	8.2	24.3	1.69
135	15 May 2019	2	17.49	78.20	8.6	33.64	8.2	24.4	1.81
135	15 May 2019	3	17.12	78.38	8.5	33.66	8.2	24.5	2.01
135	15 May 2019	4	15.87	78.46	8.6	33.64	8.2	24.7	2.35
135	15 May 2019	5	15.51	77.90	8.4	33.63	8.2	24.8	2.89
135	15 May 2019	6	14.63	76.90	8.3	33.63	8.2	25.0	4.20
135	15 May 2019	7	14.33	75.34	8.2	33.60	8.2	25.0	5.09
135	15 May 2019	8	13.64	74.98	7.9	33.62	8.1	25.2	5.15
135	15 May 2019	9	13.08	75.47	7.5	33.59	8.1	25.3	5.28
135	15 May 2019	10	12.80	76.74	7.0	33.60	8.1	25.3	4.76
135	15 May 2019	10	12.46		6.7	33.60	8.0	25.4	4.76
				78.68				25.4 25.4	
135	15 May 2019	12	12.41	79.21	6.5	33.61	8.0		4.51
135	15 May 2019	13	12.37	77.99	6.4	33.61	8.0	25.4	4.63
135	15 May 2019	14	12.30	77.78	6.4	33.62	8.0	25.5	4.14
135	15 May 2019	15	12.24	78.65	6.1	33.63	8.0	25.5	3.92
135	15 May 2019	16	12.08	77.97	5.6	33.64	8.0	25.5	3.89
135	15 May 2019	17	12.05	71.28	5.3	33.64	7.9	25.5	3.38
135	15 May 2019	18	12.04	66.80	5.3	33.64	7.9	25.5	2.89
135	15 May 2019	19	12.04	62.05	5.2	33.64	7.9	25.5	2.77
136	15 May 2019	1	18.23	67.98	8.8	33.60	8.2	24.1	2.76
136	15 May 2019	2	18.18	67.97	8.7	33.61	8.2	24.2	3.01
136	15 May 2019	3	17.99	68.54	8.4	33.62	8.2	24.2	3.06
136	15 May 2019	4	17.53	69.20	8.6	33.64	8.2	24.3	3.18
136	15 May 2019	5	16.84	69.03	9.6	33.66	8.2	24.5	5.13
136	15 May 2019	6	15.75	67.53	10.3	33.66	8.3	24.8	7.53
136	15 May 2019	7	14.89	63.63	10.2	33.66	8.3	25.0	7.70
136	15 May 2019	8	13.97	65.91	9.6	33.65	8.2	25.2	6.89
136	15 May 2019	9	13.58	66.73	9.2	33.62	8.2	25.2	6.58
136	15 May 2019	10	13.37	64.29	8.1	33.62	8.1	25.2	6.90
136	15 May 2019	11	13.22	54.02	7.2	33.60	8.0	25.3	8.33
				0				_0.0	
137	15 May 2019	1	17.80	81.11	8.5	33.63	8.2	24.3	1.37
137	15 May 2019	2	17.81	80.84	8.2	33.64	8.2	24.3	1.40
137	15 May 2019	3	16.63	77.22	7.9	33.73	8.2	24.6	2.10
137	15 May 2019	4	15.01	77.16	7.8	33.68	8.1	24.9	3.07
137	15 May 2019	5	14.44	75.95	7.5	33.62	8.1	25.0	3.50
137	15 May 2019	6	14.05	73.37	7.3	33.61	8.1	25.1	3.31
137	15 May 2019	7	13.63	75.70	7.1	33.62	8.1	25.2	3.02
137	15 May 2019	8	12.99	77.49	6.9	33.61	8.0	25.2	2.82
137	15 May 2019	9	12.83	78.09	6.7	33.58	8.0	25.3	2.52
137	15 May 2019 15 May 2019	9 10	12.65	76.71	6.6	33.59	8.0	25.3	2.56
137	15 May 2019	11	12.59	75.87	6.5	33.59	8.0	25.4	2.63
137	15 May 2019	12	12.54	72.30	6.4	33.59	8.0	25.4	2.63
100	45 Mar 0040	_	10.40	05.00		00.04	0.0	04.4	4.00
138	15 May 2019	1	18.42	65.60	9.1	33.61	8.2	24.1	4.06
138	15 May 2019	2	18.42	65.59	9.0	33.61	8.2	24.1	4.30
138	15 May 2019	3	18.03	65.59	8.9	33.62	8.2	24.2	4.34
138	15 May 2019	4	17.88	66.78	8.8	33.61	8.2	24.2	3.79
138	15 May 2019	5 6	17.07	70.10	9.2	33.66	8.2	24.5	3.24
138	15 May 2019	6	16.09	76.12	9.7	33.64	8.2	24.7	2.73
138	15 May 2019	7	15.68	77.73	9.6	33.62	8.2	24.8	2.90
138	15 May 2019	8	15.15	76.81	9.8	33.64	8.2	24.9	3.96
138	15 May 2019	9	13.88	75.24	9.0	33.67	8.2	25.2	4.80
138	15 May 2019	10	13.34	71.85	7.1	33.62	8.1	25.3	5.78

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
138	15 May 2019	11	13.29	67.16	6.1	33.61	8.0	25.3	5.48
4	14 May 2019	1	18.27	83.59	8.5	33.65	8.2	24.2	0.48
4	14 May 2019	2	18.20	83.87	8.5	33.65	8.2	24.2	0.50
4	14 May 2019	3	18.12	83.86	8.5	33.65	8.2	24.2	0.53
4	14 May 2019	4	18.09	83.85	8.5	33.65	8.2	24.2	0.58
4	14 May 2019	5	17.81	83.96	8.5	33.66	8.2	24.3	0.63
4	14 May 2019	6 7	17.21	84.24	8.4	33.67	8.2	24.4	0.70
4 4	14 May 2019	8	15.86 15.04	84.57 84.32	8.6 8.9	33.68	8.2 8.2	24.8 24.9	0.74 0.79
14	14 May 2019 14 May 2019	о 9	15.04 14.85	83.97	8.9 8.9	33.60 33.57	0.2 8.2	24.9	0.90
14	14 May 2019	10	14.65	83.78	8.8	33.55	8.2	24.9	1.07
14	14 May 2019	10	14.52	83.47	8.6	33.56	8.2	24.9	1.25
14	14 May 2019	12	13.85	80.85	8.4	33.63	8.2	25.2	2.04
14	14 May 2019	13	13.27	76.83	8.2	33.60	8.1	25.3	3.32
14	14 May 2019	14	13.10	74.58	7.7	33.60	8.1	25.3	4.29
14	14 May 2019	15	12.72	75.91	7.0	33.62	8.1	25.4	4.24
14	14 May 2019	16	12.34	77.18	6.5	33.62	8.0	25.5	3.76
14	14 May 2019	17	12.09	77.86	6.1	33.63	8.0	25.5	3.34
14	14 May 2019	18	11.96	76.27	5.8	33.62	8.0	25.5	2.83
		-							
15	14 May 2019	1	18.22	83.29	8.5	33.64	8.2	24.2	0.48
15	14 May 2019	2	18.17	83.19	8.5	33.65	8.2	24.2	0.50
15	14 May 2019	3	18.03	82.03	8.4	33.65	8.2	24.2	0.60
15	14 May 2019	4	17.52	79.68	8.4	33.66	8.2	24.4	0.89
15	14 May 2019	5 6	17.29	74.44	8.1	33.63	8.2	24.4	1.30
15	14 May 2019	6	16.82	65.47	7.8	33.66	8.2	24.5	1.79
15	14 May 2019	7	15.74	62.31	8.0	33.67	8.2	24.8	2.48
15	14 May 2019	8	15.08	64.51	8.0	33.64	8.1	24.9	3.45
15	14 May 2019	9	14.75	62.77	7.7	33.64	8.1	25.0	4.10
15	14 May 2019	10	13.53	64.74	7.4	33.65	8.1	25.2	4.48
15	14 May 2019	11	12.93	69.20	7.1	33.63	8.1	25.3	4.33
15	14 May 2019	12	12.50	73.88	6.6	33.62	8.0	25.4	4.03
15	14 May 2019	13	12.04	69.05	6.0	33.63	8.0	25.5	3.81
16	14 May 2019	1	18.14	84.33	8.5	33.64	8.2	24.2	0.38
16	14 May 2019	2	18.18	84.45	8.5	33.65	8.2	24.2	0.37
16	14 May 2019	3	18.13	84.59	8.4	33.66	8.2	24.2	0.37
16	14 May 2019	4	17.85	84.56	8.5	33.65	8.2	24.3	0.41
16	14 May 2019	5	17.47	84.65	8.6	33.66	8.2	24.4	0.44
16	14 May 2019	6	17.19	85.46	8.6	33.63	8.2	24.4	0.44
16	14 May 2019	7	16.94	86.05	8.6	33.63	8.2	24.5	0.44
16	14 May 2019	8	16.45	86.16	8.7	33.62	8.2	24.6	0.46
16	14 May 2019	9	16.21	86.05	8.7	33.61	8.2	24.6	0.48
16	14 May 2019	10	15.92	85.99	8.8	33.59	8.2	24.7	0.53
16	14 May 2019	11	15.85	86.03	8.8	33.59	8.2	24.7	0.56
16	14 May 2019	12	15.64	86.14	8.8	33.59	8.2	24.7	0.59
16	14 May 2019	13	15.38	86.22	8.7	33.58	8.2	24.8	0.63
16	14 May 2019	14	14.54	86.26	8.6	33.62	8.2	25.0	0.61
16	14 May 2019	15	13.89	85.30	8.7	33.57	8.2	25.1	0.82
16	14 May 2019	16	13.78	83.73	8.6	33.55	8.2	25.1	1.15
16	14 May 2019	17	13.62	83.08	8.6	33.54	8.1	25.1	1.41
16	14 May 2019	18	13.58	82.51	8.6	33.55	8.2	25.2	1.65
16	14 May 2019	19	13.54	82.36	8.6	33.56	8.2	25.2	1.77
16	14 May 2019	20	13.25	79.66	8.4	33.59	8.2	25.2	2.86
16	14 May 2019	21	13.02	75.26	8.0	33.58	8.1	25.3	5.31
16	14 May 2019	22	12.44	74.53	7.0	33.63	8.1	25.4	5.95
16	14 May 2019	23	12.09	80.41	6.2	33.62	8.0	25.5	4.62
16 16	14 May 2019	24 25	11.97 11.96	80.35 79.72	5.9 5.9	33.62	8.0 8.0	25.5 25.5	3.35
10	14 May 2019	20	11.90	19.12	5.9	33.62	0.0	20.0	3.19

Station	Date	Depth (m)	Temp (°C)	XMS (%)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
17	14 May 2019	1	18.02	84.55	8.5	33.65	8.2	24.2	0.59
17	14 May 2019	2	18.01	84.53	8.6	33.65	8.2	24.2	0.63
17	14 May 2019	3	17.99	84.15	8.5	33.65	8.2	24.2	0.71
17	14 May 2019	4	17.88	84.48	8.5	33.65	8.2	24.3	0.72
17	14 May 2019	5	17.78	84.60	8.5	33.65	8.2	24.3	0.74
17	14 May 2019	6	17.35	84.75	8.6	33.65	8.2	24.4	0.73
17	14 May 2019	7	17.05	85.50	8.4	33.64	8.2	24.5	0.65
17	14 May 2019	8	16.36	86.47	8.5	33.63	8.2	24.6	0.55
17	14 May 2019	9	16.05	86.96	8.4	33.60	8.2	24.7	0.53
17	14 May 2019	10	15.36	87.13	8.6	33.60	8.1	24.8	0.51
17	14 May 2019	11	15.05	87.05	8.8	33.58	8.2	24.9	0.50
17	14 May 2019	12	14.91	86.87	8.8	33.57	8.2	24.9	0.51
17	14 May 2019	13	14.79	86.89	8.7	33.56	8.2	24.9	0.49
17	14 May 2019	14	14.69	86.84	8.7	33.56	8.2	24.9	0.51
17	14 May 2019	15	14.50	86.95	8.6	33.57	8.1	25.0	0.52
17	14 May 2019	16	14.30	86.69	8.5	33.57	8.1	25.0	0.58
17	14 May 2019	17	14.10	86.49	8.5	33.58	8.1	25.1	0.81
17	14 May 2019	18	13.91	86.15	8.5	33.57	8.1	25.1	1.23
17	14 May 2019	19	13.84	84.81	8.5	33.57	8.1	25.1	2.20
17	14 May 2019	20	13.68	83.26	8.5	33.58	8.1	25.2	3.45
17	14 May 2019	21	13.52	81.63	8.4	33.58	8.1	25.2	4.20
17	14 May 2019	22	13.43	80.56	8.3	33.58	8.1	25.2	4.72
17	14 May 2019	23	13.38	79.90	8.2	33.58	8.1	25.2	5.62
17	14 May 2019	24	13.34	78.54	8.0	33.58	8.1	25.2	5.60
17	14 May 2019	25	13.26	78.84	7.8	33.58	8.1	25.2	5.43
17	14 May 2019	26	13.14	79.79	7.5	33.58	8.1	25.3	4.93
17	14 May 2019	27	13.03	82.14	7.2	33.58	8.1	25.3	3.95
17	14 May 2019	28	12.89	83.45	7.1	33.59	8.0	25.3	3.54
17	14 May 2019	29	12.81	83.49	7.0	33.58	8.0	25.3	3.55
17	14 May 2019	30	12.71	83.52	6.9	33.58	8.0	25.4	3.62
17	14 May 2019	31	12.64	84.17	6.8	33.59	8.0	25.4	2.99
17	14 May 2019	32	12.51	84.73	6.6	33.60	8.0	25.4	2.51
17	14 May 2019	33	12.45	85.23	6.5	33.60	8.0	25.4	2.09
17	14 May 2019	34	12.40	85.86	6.4	33.59	8.0	25.4	2.16
17	14 May 2019	35	12.32	86.10	6.4	33.60	8.0	25.4	1.93
17	14 May 2019	36	12.18	86.17	6.4	33.60	8.0	25.5	1.74
17	14 May 2019	37	12.07	86.78	6.3	33.59	8.0	25.5	1.58
17	14 May 2019	38	12.05	87.29	6.2	33.59	8.0	25.5	1.40
17	14 May 2019	39	12.04	87.25	6.2	33.60	8.0	25.5	1.40
17	14 May 2019	40	11.94	87.38	6.0	33.61	8.0	25.5	1.31
17	14 May 2019	41	11.89	87.87	5.9	33.62	8.0	25.5	1.23
17	14 May 2019	42	11.86	88.00	5.8	33.62	7.9	25.5	0.99
17	14 May 2019	43	11.69	87.96	5.7	33.63	7.9	25.6	0.95
17	14 May 2019	44	11.64	87.49	5.5	33.64	7.9	25.6	0.99
17	14 May 2019	45	11.61	87.36	5.4	33.65	7.9	25.6	0.92
17	14 May 2019	46	11.56	87.26	5.2	33.66	7.9	25.6	0.90
17	14 May 2019	47	11.40	87.40	5.2	33.68	7.9	25.7	0.87
17	14 May 2019	48	11.27	87.58	5.2	33.67	7.9	25.7	0.78
17	14 May 2019	49	11.26	87.83	5.3	33.66	7.9	25.7	0.73
17	14 May 2019	50	11.25	87.87	5.3	33.66	7.9	25.7	0.65
17	14 May 2019	51	11.24	87.72	5.3	33.66	7.9	25.7	0.63
17	14 May 2019	52	11.25	87.24	5.3	33.66	7.9	25.7	0.63
									0.00
18	14 May 2019	1	18.09	84.30	8.5	33.64	8.2	24.2	0.45
18	14 May 2019		18.07	84.29	8.5	33.64	8.2	24.2	0.44
18	14 May 2019	2 3	17.92	84.37	8.6	33.65	8.2	24.3	0.45
18	14 May 2019	4	17.80	84.53	8.6	33.64	8.2	24.3	0.46
18	14 May 2019	5	17.73	84.54	8.6	33.64	8.2	24.3	0.48
18	14 May 2019	5 6	17.66	84.49	8.6	33.64	8.2	24.3	0.51
18	14 May 2019	7	17.56	84.48	8.5	33.65	8.2	24.3	0.55
18	14 May 2019	8	16.31	84.49	8.6	33.67	8.2	24.7	0.58
10	14 IVIAY 2019	0	10.31	04.49	0.0	33.07	0.2	24.1	0.00

Station	Date	Depth (m)	Temp (°C)	XMS ($\%$)	DO (mg/L)	Sal (ppt)	рН	Dens (σ-t)	Chlor (µg/L)
18	14 May 2019	9	15.60	85.53	8.7	33.60	8.2	24.8	0.59
18	14 May 2019	10	15.20	86.19	8.7	33.58	8.2	24.8	0.56
18	14 May 2019	11	14.93	86.57	8.6	33.57	8.2	24.9	0.56
18	14 May 2019	12	14.55	86.60	8.7	33.57	8.2	25.0	0.61
18	14 May 2019	13	14.39	86.28	8.6	33.56	8.2	25.0	0.63
18	14 May 2019	14	14.03	85.45	8.6	33.58	8.2	25.1	0.74
18	14 May 2019	15	13.95	84.50	8.6	33.55	8.2	25.1	0.88
18	14 May 2019	16	13.78	83.78	8.5	33.58	8.2	25.1	1.09
18	14 May 2019	17	13.60	81.86	8.5	33.57	8.2	25.2	1.56
18	14 May 2019	18	13.41	80.11	8.4	33.58	8.2	25.2	2.22
18	14 May 2019	19	13.10	77.45	8.1	33.58	8.1	25.3	3.94
18	14 May 2019	20	12.96	78.05	7.8	33.58	8.1	25.3	5.15
18	14 May 2019	21	12.90	78.98	7.7	33.58	8.1	25.3	4.96
18	14 May 2019	22	12.85	79.74	7.5	33.58	8.1	25.3	5.23
18	14 May 2019	23	12.81	80.37	7.4	33.58	8.1	25.3	5.07
18	14 May 2019	24	12.79	80.82	7.3	33.58	8.1	25.3	4.84
18	14 May 2019	25	12.69	81.55	7.0	33.60	8.1	25.4	4.84
18	14 May 2019	26	12.41	83.29	6.7	33.61	8.0	25.4	3.93
18	14 May 2019	27	12.27	84.15	6.6	33.60	8.0	25.4	3.78
18	14 May 2019	28	12.23	84.33	6.5	33.61	8.0	25.5	3.45
18	14 May 2019	29	12.10	84.55	6.4	33.61	8.0	25.5	3.53
18	14 May 2019	30	12.06	85.21	6.3	33.61	8.0	25.5	3.11
18	14 May 2019	31	11.98	86.06	6.1	33.62	8.0	25.5	2.48
18	14 May 2019	32	11.93	86.74	5.9	33.62	8.0	25.5	2.14
18	14 May 2019	33	11.75	86.60	5.6	33.65	8.0	25.6	1.83
18	14 May 2019	34	11.60	84.89	5.3	33.66	7.9	25.6	1.73
18	14 May 2019	35	11.58	83.49	5.3	33.66	7.9	25.6	1.60
18	14 May 2019	36	11.58	82.76	5.3	33.65	7.9	25.6	1.59
	-								
19	14 May 2019	1	17.98	85.60	8.5	33.64	8.2	24.2	0.35
19	14 May 2019	2	17.88	85.45	8.5	33.65	8.2	24.3	0.36
19	14 May 2019	3	17.60	85.30	8.6	33.64	8.2	24.3	0.37
19	14 May 2019	4	17.46	85.38	8.7	33.63	8.2	24.4	0.39
19	14 May 2019	5	17.41	85.34	8.6	33.63	8.2	24.4	0.41
19	14 May 2019	6	17.27	85.48	8.6	33.63	8.2	24.4	0.42
19	14 May 2019	7	17.15	85.52	8.7	33.62	8.2	24.4	0.45
19	14 May 2019	8	17.02	85.63	8.7	33.62	8.2	24.5	0.46
19	14 May 2019	9	16.84	85.71	8.7	33.62	8.2	24.5	0.47
19	14 May 2019	10	16.65	85.82	8.7	33.62	8.2	24.5	0.50
19	14 May 2019	11	15.83	85.80	8.7	33.63	8.2	24.7	0.52
19	14 May 2019	12	15.27	85.03	8.6	33.57	8.2	24.8	0.71
19	14 May 2019	13	14.44	84.23	8.6	33.50	8.2	24.9	0.85
19	14 May 2019	14	14.50	85.71	8.7	33.54	8.2	25.0	0.73
19	14 May 2019	15	14.45	85.94	8.7	33.56	8.2	25.0	0.73
19	14 May 2019	16	14.17	85.40	8.6	33.58	8.2	25.1	0.79
19	14 May 2019	17	13.69	83.78	8.6	33.58	8.2	25.1	1.22
19	14 May 2019	18	13.65	82.43	8.6	33.56	8.2	25.1	1.70
19	14 May 2019	19	13.42	81.62	8.5	33.58	8.2	25.2	2.26
19	14 May 2019	20	13.27	79.38	8.3	33.57	8.1	25.2	3.44
19	14 May 2019	21	13.22	77.31	8.2	33.58	8.1	25.3	4.66
19	14 May 2019	22	12.87	74.08	7.9	33.58	8.1	25.3	7.17
19	14 May 2019	23	12.72	75.71	7.6	33.58	8.1	25.4	8.16
19	14 May 2019	24	12.57	77.07	7.3	33.59	8.1	25.4	7.54
19	14 May 2019	25	12.26	79.79	6.6	33.64	8.0	25.5	5.97
19	14 May 2019	26	11.96	81.95	5.9	33.63	8.0	25.5	3.65
19	14 May 2019	27	11.80	81.79	5.5	33.65	7.9	25.6	2.82
19	14 May 2019	28	11.64	80.40	5.3	33.66	7.9	25.6	2.19
19	14 May 2019	29	11.64	78.28	5.3	33.65	7.9	25.6	1.77



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.



Figure 4.1: Graphics of CTD profile data from the SBOO offshore stations for each sample date.

This page intentionally left blank

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
13	14 May 2019	18	AE	LAB DUPLICATE	<2	<2	<2
18	14 May 2019	37	AR	LAB DUPLICATE	<2	<2	<2
19	14 May 2019	27	AR	LAB DUPLICATE	<2	<2	<2
I12	16 May 2019	18	AE	LAB DUPLICATE	<2	<2	2e
13	16 May 2019	18	JLT	LAB DUPLICATE	<4	<4	<4
14	16 May 2019	2	AR	LAB DUPLICATE	<2	<2	2e
I16	16 May 2019	18	AR	LAB DUPLICATE	<2	<2	<2
l19	06 May 2019	6	JLT	LAB DUPLICATE	<2	<2	<2
19	13 May 2019	6	AE	LAB DUPLICATE	<2	<2	<2
19	23 May 2019	6	AE	LAB DUPLICATE	140e	28e	<2
19	29 May 2019	6	JF	LAB DUPLICATE	1600e	340e	8e
120	16 May 2019	55	JLT	LAB DUPLICATE	<2	<2	<2
130	15 May 2019	27	AE	LAB DUPLICATE	<2	<2	<2
136	15 May 2019	11	AE	FIELD DUPLICATE	<2	<2	<2
136	15 May 2019	11	AE	LAB DUPLICATE	6e	<2	<2
140	06 May 2019	6	JLT	LAB DUPLICATE	<2	<2	<2
140	13 May 2019	6	AR	LAB DUPLICATE	1000e	260e	14e
140	23 May 2019	6	AE	LAB DUPLICATE	70	32e	<2
140	29 May 2019	6	JF	LAB DUPLICATE	220e	14e	<2
S12	01 May 2019		JLT	FIELD DUPLICATE	13000	3400e	260e
S12	01 May 2019		JLT	LAB DUPLICATE	10000	3400e	240e
S12	07 May 2019		AE	FIELD DUPLICATE	360e	14e	6e
S12	07 May 2019		AE	LAB DUPLICATE	240e	22e	2e
S12	14 May 2019		JF	FIELD DUPLICATE	12000	980	48
S12	14 May 2019		JF	LAB DUPLICATE	10000	1000	40
S12	21 May 2019		AE	FIELD DUPLICATE	<20	<2	<2
S12	21 May 2019		AE	LAB DUPLICATE	<20	<2	<2
S12	28 May 2019		AE	FIELD DUPLICATE	<20	<2	<2
S12	28 May 2019		AE	LAB DUPLICATE	<20	2e	<2

ns = not sampled ND = no data This page intentionally left blank