

APPENDIX A

FIELD DATA FORMS

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: REF1-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0625

FIB SAMPLE TIME: 0625

Water Depth: 20.4m

Tide (ft): 1.0+

Time of Slack High
Tide: 13:50

Weather conditions: ☐ calm

Wind (mph)/direction: ☐

Water Visibility (ft): 2.9m

Surface Water
Conditions: calm

Bird Enumeration: 1 = ☐

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

on no sheen, calm

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0628</u>	<u>18.7</u>	<u>34.45</u>	<u>8.09</u>	<u>7.95</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: Kate [Signature]

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KK-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0610

FIB SAMPLE TIME: 0610

Water Depth: 2.5m

Tide (ft): _____

Time of Slack High
Tide: 23:53

Weather conditions: calm, overcast, clearing

Wind (mph)/direction: Ø

Water Visibility (ft): 2.5m + (bottom)

Surface Water
Conditions: calm

Bird Enumeration: n=1, no people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0615</u>	<u>18.6</u>	<u>34.36</u>	<u>8.05</u>	<u>7.36</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 10:00 Signature: Kate Gwinn

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: GD-W1

Date: 5/6/22 Time on Station: 0600
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0600 Water Depth: 6 meters

Tide (ft): _____ Time of Slack High Tide: 23:53

Weather conditions: calm overcast

Wind (mph)/direction: Ø Water Visibility (ft): 4.1 meters

Surface Water Conditions: calm

Bird Enumeration: Ø 2 birds, no people, n=20 boats

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

noted large sheen surface oil @ slip, moved collection location 75' west


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0605</u>	<u>18.5</u>	<u>34.15</u>	<u>8.02</u>	<u>7.82</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MCI-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0625

FIB SAMPLE TIME: 0625

Water Depth: 5.3m

Tide (ft): 1.0+

Time of Slack High
Tide: 23:58

Weather conditions: calm, overcast

Wind (mph)/direction: 0

Water Visibility (ft): 2.8 meter

Surface Water
Conditions: calm

Bird Enumeration: 1=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no sheen, surface debris or kelp

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0628	18.6	34.47	8.09	8.12

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: Katzen

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MC2-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0645

FIB SAMPLE TIME: 0645

Water Depth: 5.0m

Tide (ft): 0.9+

Time of Slack High
Tide: 23:58

Weather conditions: calm

Wind (mph)/direction: slight breeze <1kt (east) Water Visibility (ft): 2-7m

Surface Water
Conditions: calm, light ripple,

Bird Enumeration: n=0, no people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris, kelp


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0648</u>	<u>18.8</u>	<u>34.50</u>	<u>8.07</u>	<u>7.91</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: FP-N1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0655

FIB SAMPLE TIME: 0655

Water Depth: 4.5m

Tide (ft): 0.85

Time of Slack High
Tide: 23:53

Weather conditions: calm, overcast

Wind (mph)/direction: light breeze < 1kt

Water Visibility (ft): 2.3m

Surface Water
Conditions: calm

Bird Enumeration: n=0, 1 person on dock, 1 boat fueling

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

*bilge running on boat getting fuel
~6 boats docked @ FP - KB*


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0658	18.7	34.51	8.02	7.15

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF-3-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0700

FIB SAMPLE TIME: 0700

Water Depth: 1.9 m

Tide (ft): 0.80+

Time of Slack High
Tide: 23:58

Weather conditions: calm

Wind (mph)/direction: Ø

Water Visibility (ft): 2.4m

Surface Water
Conditions: calm

Bird Enumeration: 1 = Ø, 1 person on dock

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surf debris, no kelp


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0705</u>	<u>18.7</u>	<u>34.50</u>	<u>8.01</u>	<u>7.20</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: OF2-N1

Date:
(mm/dd/yyyy) 5/6

Time on Station:
(hh:mm) 0720

FIB SAMPLE TIME: 0720

Water Depth: 0.3

Tide (ft): ~0.6 +

Time of Slack High
Tide: 23:58

Weather conditions: calm, overcast

Wind (mph)/direction: light ~ 0-1kt Water Visibility (ft): 0.3

Surface Water
Conditions: calm

Bird Enumeration: 170, 2 walkers

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

flow ~ 7-10 gpm salinity 1.49 @ outfall
18 inches above waterline
no surface debris -


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0725	18.6	34.39	8.04	7.18

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☐ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: BSN1 + BS-DNR-W1

Date: 5/6/22 Time on Station: 0735
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0740 / 0741 (dup) Water Depth: 0.3m

Tide (ft): ~0.55 + Time of Slack High Tide: 23:58

Weather conditions: calm, clearing slightly

Wind (mph)/direction: 0-2/kth south Water Visibility (ft): 0.3

Surface Water Conditions: calm, some small bubbles on surface

Bird Enumeration: N=0, A=1 walker on path

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 strand of feather bag
no visible flow from outfall, no kelp on beach
2 strands of floating kelp 100' off shore


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0744</u>	<u>18.5</u>	<u>34.32</u>	<u>8.05</u>	<u>7.24</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OP1-M1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0750

FIB SAMPLE TIME: 0750

Water Depth: 0.3

Tide (ft): ~0.5+

Time of Slack High
Tide: 13:58

Weather conditions: calm overcast

Wind (mph)/direction: Ø

Water Visibility (ft): >1.8 miles

Surface Water
Conditions: calm

Bird Enumeration: 11=Ø, 2 walkers on path none on beach

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no kelp, no ~~the~~ large algae


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0758</u>	<u>18.6</u>	<u>34.46</u>	<u>8.06</u>	<u>7.73</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-N1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0800

FIB SAMPLE TIME: 0800

Water Depth: 3.6m

Tide (ft): ~0.5+

Time of Slack High
Tide: 23:58

Weather conditions: calm

Wind (mph)/direction: 0-1 kt south

Water Visibility (ft): 2.8m

Surface Water
Conditions: calm, no surf. debris

Bird Enumeration: n = 0, no people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0802</u>	<u>18.6</u>	<u>34.49</u>	<u>8.09</u>	<u>8.10</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: Kate Brun

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0805

FIB SAMPLE TIME: 0805

Water Depth: 4.5 m

Tide (ft): ~0.46+

Time of Slack High
Tide: 23:50

Weather conditions: calm overcast

Wind (mph)/direction: 1-2 kt south

Water Visibility (ft): 2.9 m

Surface Water
Conditions: light ripples

Bird Enumeration: none, no peeps

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

one boat anchored 150' SW during sampling


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0807	18.6	34.50	8.07	8.06

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0810

FIB SAMPLE TIME: 0810

Water Depth: 5.0 m

Tide (ft): -0.48 +

Time of Slack High
Tide: 23:50

Weather conditions: calm

Wind (mph)/direction: 0 - < 1 kt surf Water Visibility (ft): 3.2 m

Surface Water
Conditions: calm, no debris

Bird Enumeration: n = 0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 1 anchored boat 200 ft SW


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0814</u>	<u>18.7</u>	<u>34.52</u>	<u>8.09</u>	<u>8.05</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: NK-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0820

FIB SAMPLE TIME: 0820

Water Depth: 0.6 m

Tide (ft): -0.46+

Time of Slack High
Tide: 12:58

Weather conditions: calm, overcast

Wind (mph)/direction: 0-1 kt (south) Water Visibility (ft): _____

Surface Water
Conditions: calm, light ripple, no debris

Bird Enumeration: 1=0, 1 beach walker

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 small strand kelp on beach, 1 walker

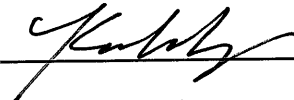
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0825</u>	<u>18.6</u>	<u>34.52</u>	<u>8.10</u>	<u>8.17</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KB-W1

Date:
(mm/dd/yyyy) 5/6/22

Time on Station:
(hh:mm) 0830

FIB SAMPLE TIME: 0830

Water Depth: 0.6

Tide (ft): 0.5

Time of Slack High
Tide: 23:58

Weather conditions: calm, light wind pt. cloudy

Wind (mph)/direction: 1-2 kts south Water Visibility (ft): 0.6 -

Surface Water
Conditions: ripples

Bird Enumeration: n=1, 5 persons / 5 dogs on beach

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

filamentous green algae in nearshore

1


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0832	18.6	34.44	8.09	8.33

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/6/22 Time: 10:00 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: REF1 - WKD

Date: 5/7/22 (mm/dd/yyyy) Time on Station: 0620 (hh:mm)

FIB SAMPLE TIME: 0625 Water Depth: 18.4

Tide (ft): 1.5+ Time of Slack High Tide: 00:48

Weather conditions: wind 78KT (south) overcast

Wind (mph)/direction: 78KT(S) Water Visibility (ft): 2.5m

Surface Water Conditions: light chop, n. debris

Bird Enumeration: 1 = 1

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0628</u>	<u>19.2</u>	<u>34.26</u>	<u>7.97</u>	<u>8.14</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R1-WK01

Date: 5/7/22 Time on Station: 0640
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0640 Water Depth: 3.9m

Tide (ft): 1.5 + Time of Slack High Tide: 00:48

Weather conditions: overcast (cool)

Wind (mph)/direction: SEA (south) Water Visibility (ft): 2.45m

Surface Water Conditions: light surface ripple

Bird Enumeration: 1-0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 17 vessels on anchors no dogs observed

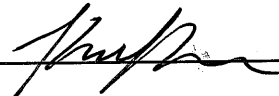
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<i>0645</i>	<i>17.1</i>	<i>34.40</i>	<i>8.05</i>	<i>8.16</i>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R2-WKD1
R-1

Date: 5/7/22 Time on Station: 0645
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0650 Water Depth: 5.0

Tide (ft): 1.5+ Time of Slack High Tide: 00:48

Weather conditions: overcast, cool

Wind (mph)/direction: SE(5) Water Visibility (ft): 2-9

Surface Water Conditions: no debris, light

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none (n=17 boats @ anchor) no dogs observed

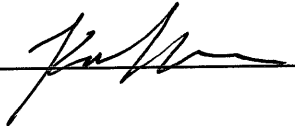
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0650</u>	<u>19.0</u>	<u>34.45</u>	<u>8.05</u>	<u>8.15</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R1-NKD1 + (DUP)

Date: 5/7/22 (mm/dd/yyyy) Time on Station: 0655 (hh:mm)

FIB SAMPLE TIME: 0655/0656 Water Depth: 5.3

Tide (ft): 1.4 + Time of Slack High Tide: 00:48

Weather conditions: overcast, cool

Wind (mph)/direction: 3.5 K(3) Water Visibility (ft): 3.4

Surface Water Conditions: no debris

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=17 boats @ anchor, no dogs observed


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0700</u>	<u>17.2</u>	<u>34.48</u>	<u>8.05</u>	<u>8.02</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R2

Date:
(mm/dd/yyyy) 5/7/22

Time on Station:
(hh:mm) 0740

FIB SAMPLE TIME: 0740

Water Depth: 3.8

Tide (ft): 1.0

Time of Slack High
Tide: 00:48

Weather conditions: calm overcast

Wind (mph)/direction: 3kt (S)

Water Visibility (ft): 3.0

Surface Water
Conditions: light ripples, no debris visible

Bird Enumeration: 11=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none 11=17 boats, no dogs


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0742</u>	<u>19.0</u>	<u>34.44</u>	<u>8.11</u>	<u>8.13</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R2

Date:
(mm/dd/yyyy) 5/7/22

Time on Station:
(hh:mm) 0745

FIB SAMPLE TIME: 0745

Water Depth: 5.0

Tide (ft): 1.0

Time of Slack High
Tide: 00:48

Weather conditions: overcast, calm

Wind (mph)/direction: 1-2 kts (S)

Water Visibility (ft): 2.95

Surface Water
Conditions: calm

Bird Enumeration: 1 = 4

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

11 = 17 boats, 10 dogs

1 Kayaker, 2 persons on deck, one crying baby.


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0749</u>	<u>19.0</u>	<u>34.50</u>	<u>8.08</u>	<u>8.14</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-K2

Date:
(mm/dd/yyyy) 5/7/22

Time on Station:
(hh:mm) 0755

FIB SAMPLE TIME: 0755

Water Depth: 5.1

Tide (ft): 0.8

Time of Slack High
Tide: 00:48

Weather conditions: calm, overcast

Wind (mph)/direction: 0-1 kts (S)

Water Visibility (ft): 33

Surface Water
Conditions: calm, smooth

Bird Enumeration: 120

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

~~1-17~~ boats ~ 6 people topside
20
vessels
*change
all FIB

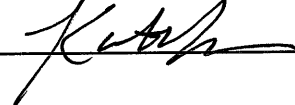
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0757	19.1	34.53	8.08	8.04

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R3-WFD1

Date:
(mm/dd/yyyy) 5/9/22

Time on Station:
(hh:mm) 0740

FIB SAMPLE TIME: 0740

Water Depth: 3.7

Tide (ft): 0.64

Time of Slack High
Tide: 00:48

Weather conditions: overcast, /

Wind (mph)/direction: 7.5 (S)

Water Visibility (ft): 2.4

Surface Water
Conditions: no debris, light wind

Bird Enumeration: 11=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1220 boats, 1-4 people topside,
2 paddle board @ boaters st.


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0745</u>	<u>19.0</u>	<u>34.46</u>	<u>8.14</u>	<u>8.18</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R3-WICD1

Date: 5/7/22 Time on Station: 0850
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0850 Water Depth: 4.5m

Tide (ft): 0.5 + Time of Slack High Tide: 00:48

Weather conditions: overcast, light breeze

Wind (mph)/direction: 7kts (S) Water Visibility (ft): 2.8m

Surface Water Conditions: light ripple no debris -

Bird Enumeration: 1=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no topside activity noted

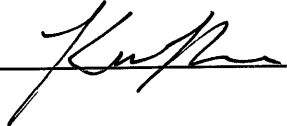
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0852</u>	<u>19.0</u>	<u>34.51</u>	<u>8.12</u>	<u>8.22</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R3-UKD-1

Date: 5/7/22 Time on Station: 0855
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0855 Water Depth: 4.9m

Tide (ft): 0.5+ Time of Slack High Tide: 00:48

Weather conditions: rain, overcast

Wind (mph)/direction: 4kt (S) Water Visibility (ft): 3.3

Surface Water Conditions: no debris visible, light wind

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

3 yellow board, 1 kayak no dogs

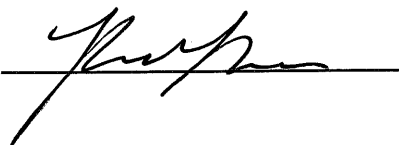
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0858</u>	<u>17.2</u>	<u>34.54</u>	<u>8.11</u>	<u>8.06</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☐ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF2-DW-1

Date:
(mm/dd/yyyy) 5/7/22

Time on Station:
(hh:mm) 0705

FIB SAMPLE TIME: 0720

Water Depth: 0.3

Tide (ft): 1.1 +

Time of Slack High
Tide: 00:48

Weather conditions: overcast, cool

Wind (mph)/direction: 1-2 kt (S)

Water Visibility (ft): > 2 ft

Surface Water
Conditions: calm

Bird Enumeration: 1 = 0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

dry weather flow ~ 2 gal/min


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0715 (direct grab)	17.7	3.28	8.48	9.54
0725 (RW)	19.1	33.80	8.02	7.45

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/7/22 Time: 10:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: REF 1-54

Date:
(mm/dd/yyyy) 5/16/22

Time on Station:
(hh:mm) 0755

FIB SAMPLE TIME: 0755

Water Depth: 21.3

Tide (ft): ~30+

Time of Slack High
Tide: 0510

Weather conditions: calm, sunny ~62°

Wind (mph)/direction: 0

Water Visibility (ft): 2.3

Surface Water
Conditions: calm

Bird Enumeration: 1=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no boats, no surface debris 1-21 boats @ anchor


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0757</u>	<u>18.5</u>	<u>34.20</u>	<u>8.06</u>	<u>7.83</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R1-SH

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0813

FIB SAMPLE TIME: 0815

Water Depth: 4.3m

Tide (ft): +3.0

Time of Slack High
Tide: 05:18

Weather conditions: calm, sunny

Wind (mph)/direction: 0

Water Visibility (ft): 2.3m

Surface Water
Conditions: calm, flat

Bird Enumeration: 1=0, 1 person topside, 0=dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris, a few loose strands of kelp

1221 boats @ anchor


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0816</u>	<u>19.2</u>	<u>34.49</u>	<u>8.11</u>	<u>7.85</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R1-S4

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0820

FIB SAMPLE TIME: 0820

Water Depth: 5.0

Tide (ft): ~2.9+

Time of Slack High
Tide: 0518

Weather conditions: sunny, calm

Wind (mph)/direction: Ø

Water Visibility (ft): 2.6 n

Surface Water
Conditions: calm

Bird Enumeration: n = 0, n = 3 peeps topside, n = Ø dogs
15

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 1 padd/boarder n = 21 boats @ anchor


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0821	19.2	34.54	8.11	7.90

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R1-SH (A1-3-R1-SH-DUP)

Date: 5/10/ Time on Station: 0827
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0830/0831/dup Water Depth: 5.5m

Tide (ft): -2.8' Time of Slack High Tide: 0518

Weather conditions: sunny, calm

Wind (mph)/direction: 0-1 kt (S) Water Visibility (ft): 2.5m

Surface Water Conditions: calm

Bird Enumeration: n=0 no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris n=21 boats @ anchor


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0832</u>	<u>19.4</u>	<u>34.56</u>	<u>8.11</u>	<u>7.8</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☐ Samples collected within 25 feet of target location? If not, please describe below.
- ☐ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R2-SH

Date: (mm/dd/yyyy) 5/10/22

Time on Station: (hh:mm) 0915

FIB SAMPLE TIME: 0915

Water Depth: 4.0 m

Tide (ft): 1.8

Time of Slack High Tide: 0518

Weather conditions: sunny calm

Wind (mph)/direction: 1-3 (NW)

Water Visibility (ft): 2.3 m

Surface Water Conditions: light

Bird Enumeration: 1=0 birds, 2 dogs, 1=5 people on

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris.

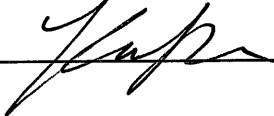
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0722</u>	<u>19.4</u>	<u>34.60</u>	<u>8.18</u>	<u>7.90</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R2-S4

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0925

FIB SAMPLE TIME: 0925

Water Depth: 4.8

Tide (ft): 10.8+

Time of Slack High
Tide: 0518

Weather conditions: sunny, calm

Wind (mph)/direction: 1-2 kts (NW) Water Visibility (ft): 2.5

Surface Water
Conditions: light breeze, some bubbles

Bird Enumeration: 1=0, 1=3 people on deck 1=2 dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

few small bubbles on surface


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0926</u>	<u>17.4</u>	<u>34.59</u>	<u>8.13</u>	<u>7.92</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: 41-3-R2-SH

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0930

FIB SAMPLE TIME: 0930

Water Depth: 2.8m - 5.3m

Tide (ft): +0.8 +1.8

Time of Slack High
Tide: 0518

Weather conditions: sunny, light breeze

Wind (mph)/direction: 2-4 mph (W)

Water Visibility (ft): 2.8

Surface Water
Conditions: light texture, no visible debris.

Bird Enumeration: n=0, 1 gull, 1 booby, n=2 dogs, n=5 people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 diver @ SDYC @ end dock
1 boat cleaning up SDYC north


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0935</u>	<u>17.4</u>	<u>34.61</u>	<u>8.12</u>	<u>7.86</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF2-DW-2

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0945

FIB SAMPLE TIME: 0945

Water Depth: ~~1~~ 0.3 m

Tide (ft): -1.57

Time of Slack High
Tide: 0518

Weather conditions: sunny, calm + light breeze

Wind (mph)/direction: 1-2 Kts W/W Water Visibility (ft): N/A

Surface Water
Conditions: mostly calm

Bird Enumeration: 130 5 people + 3 dogs (on bassener beach)

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

fl. w ~ 2gpm


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0945 (Sp1)</u>	<u>17.3</u>	<u>0.68</u>	<u>8.81</u>	<u>9.47</u>
<u>0950 (Rw)</u>	<u>19.4</u>	<u>34.44</u>	<u>8.05</u>	<u>6.87</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/16/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R3-SH

Date:
(mm/dd/yyyy) 5/10/22

Time on Station:
(hh:mm) 0812

FIB SAMPLE TIME: 1015

Water Depth: 3.6 depth

Tide (ft): 1.2 +

Time of Slack High
Tide: 0518

Weather conditions: sunny, light breeze

Wind (mph)/direction: 2-4 w/nw Water Visibility (ft): 2.7

Surface Water
Conditions: light ripples, no vis. debris

Bird Enumeration: n=0, n=1 dog, no people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1017</u>	<u>19.7</u>	<u>34.62</u>	<u>8.14</u>	<u>7.7</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☐ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R3-SH

Date: 5/10/22 Time on Station: 1020
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 1020 Water Depth: 4.6m

Tide (ft): ~1.1+ Time of Slack High Tide: 0518

Weather conditions: sunny, light breeze

Wind (mph)/direction: 2-3 kt N/W Water Visibility (ft): 2.5m

Surface Water Conditions: light texture

Bird Enumeration: = 0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

a few surface bubbles present

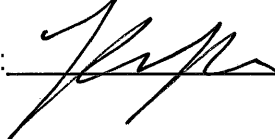
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1024</u>	<u>19.6</u>	<u>34.63</u>	<u>8.12</u>	<u>7.91</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R3-SH

Date: (mm/dd/yyyy) 05/10/2022 Time on Station: (hh:mm) 10:30

FIB SAMPLE TIME: 10:30 Water Depth: 5.0 m

Tide (ft): +1.0 Time of Slack High Tide: 05:18 AM

Weather conditions: Sunny, light breeze

Wind (mph)/direction: 2-4 WNW Water Visibility (^m/_{ft}): 2.9

Surface Water Conditions: light texture

Bird Enumeration: 0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 people topside, 2 dogs on vessels w/in anchorage


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>10:35</u>	<u>19.6</u>	<u>34.64</u>	<u>8.12</u>	<u>7.83</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/10/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: REF-1-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0750

FIB SAMPLE TIME: 0750

Water Depth: 20.9

Tide (ft): 4.6+

Time of Slack High
Tide: ~~0518~~ 0802

Weather conditions: sunny, calm

Wind (mph)/direction: calm <1kt

Water Visibility (ft): 3.7m

Surface Water
Conditions: calm

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no significant surface debris

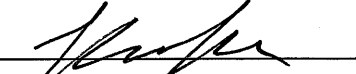
Water Quality Measurements : *rental meter* *✓*

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<i>075</i>	<i>16.2</i>	<i>33.26</i>	<i>7.89</i>	<i>6.22</i>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-W2

Date: 5/13/22
(mm/dd/yyyy)

Time on Station: 0815
(hh:mm)

FIB SAMPLE TIME: 0815

Water Depth: 4.8 m

Tide (ft): +4.6

Time of Slack High
Tide: 0802

Weather conditions: calm, sunny

Wind (mph)/direction: Ø

Water Visibility (ft): 2.7m

Surface Water
Conditions: calm

Bird Enumeration: n=0 [n=1 dog on beach]

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

3 more paddleboards → SWYC

n = 3 anchored boats


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
081	17.7	33.66	7.98	6.50

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0824

FIB SAMPLE TIME: 0825

Water Depth: 5.5m

Tide (ft): 4.5+

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: 2 kt (east)

Water Visibility (ft): 28m

Surface Water
Conditions: calm, v. light breeze

Bird Enumeration: 120, 0 dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 = 3 boats @ anchor, 3 prone paddleboards
1 standup "


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0827</u>	<u>17.7</u>	<u>33.69</u>	<u>8.01</u>	<u>6.58</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-W2

Date: 5/13/22
(mm/dd/yyyy)

Time on Station: 0830
(hh:mm)

FIB SAMPLE TIME: 0830

Water Depth: 5.9

Tide (ft): ~ 4.5 +

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: 27 (e)

Water Visibility (ft): 2.6

Surface Water
Conditions: calm, light surface debris (dust)

Bird Enumeration: 1 = 0, 0 = dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 people on deck

1 paddle board

1 = 3 boats @ anchor


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0834</u>	<u>17.8</u>	<u>33.73</u>	<u>8.02</u>	<u>6.74</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF1-W2

Date: 5/13/22
(mm/dd/yyyy)

Time on Station: 0837
(hh:mm)

FIB SAMPLE TIME: 0840

Water Depth: 0.3

Tide (ft): 4.4

Time of Slack High
Tide: 0802

Weather conditions: calm, sunny

Wind (mph)/direction: none

Water Visibility (ft): 0.3

Surface Water
Conditions: calm, dust moderate on surface

Bird Enumeration: 1 = 1 (crow)

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

11.5 people on path


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0844</u>	<u>18.0</u>	<u>33.83</u>	<u>8.02</u>	<u>6.42</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: BS-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0848

FIB SAMPLE TIME: 0850

Water Depth: 0.6 4.3 (2 ft)

Tide (ft): 4.3+

Time of Slack High
Tide: 0802

Weather conditions: calm, sunny

Wind (mph)/direction: none

Water Visibility (ft): > 0.3 0.6

Surface Water
Conditions: light → moderate surface film/dust

Bird Enumeration: n=0, dogs=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 4 people on path, none on beach


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0853</u>	<u>18.1</u>	<u>33.76</u>	<u>8.03</u>	<u>6.05</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: 0F2-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0900

FIB SAMPLE TIME: 0900

Water Depth: 0.3 1.0

Tide (ft): 4.2

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: Ø

Water Visibility (ft): >1.0

Surface Water
Conditions: calm some surface dust/debris/pollen

Bird Enumeration: n=Ø, n=Ø dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=6 people on path

Water Quality Measurements


*

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0902</u>	<u>17.8</u>	<u>32.76</u>	<u>8.02</u>	<u>6.15</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF3-W2

Date: 5/13/22 (mm/dd/yyyy) Time on Station: 0915 (hh:mm)

FIB SAMPLE TIME: 0915 Water Depth: 3.0

Tide (ft): 4.1+ Time of Slack High Tide: 0802

Weather conditions: calm, sunny

Wind (mph)/direction: 0-21 Water Visibility (ft): 2.1

Surface Water Conditions: calm, moderate surface film

Bird Enumeration: 17=0,

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

parked @ outside dock, 121 person on dock

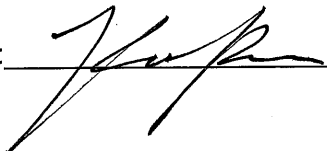
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0917</u>	<u>18.1</u>	<u>33.88</u>	<u>8.01</u>	<u>8.549</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: SP-W2

Date: 5/13/22 Time on Station: 0925
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0925 Water Depth: 5.4

Tide (ft): ~4.07 Time of Slack High Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: 1 kt (east) Water Visibility (ft): 2.5

Surface Water Conditions: calm, light surface sheen

Bird Enumeration: 1=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 people, 1 boat fueling


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0930</u>	<u>18.1</u>	<u>33.86</u>	<u>7.98</u>	<u>5.67</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: MC2-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0935

FIB SAMPLE TIME: 0935

Water Depth: 5.7m

Tide (ft): ~4.0+

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: <1kt

Water Visibility (ft): 2.8m

Surface Water
Conditions: calm,

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris, 1 person on paddleboard


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0938</u>	<u>18.1</u>	<u>33.91</u>	<u>8.06</u>	<u>6.41</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MCI-W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0945

FIB SAMPLE TIME: 0945

Water Depth: 6.1m

Tide (ft): ~4.0+

Time of Slack High
Tide: 0802

Weather conditions: calm, sunny

Wind (mph)/direction: <1kt

Water Visibility (ft): 2.9m

Surface Water
Conditions: calm

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 paddle boarders, 2 vessels underway


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0947</u>	<u>18.1</u>	<u>33.86</u>	<u>8.06</u>	<u>7.25</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ CECs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: NK - W2

Date:
(mm/dd/yyyy) 5/13/22

Time on Station:
(hh:mm) 0955

FIB SAMPLE TIME: 0955

Water Depth: 0.1m

Tide (ft): -3.9 +

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: 1 kt

Water Visibility (ft): > 0.1m

Surface Water
Conditions: calm, some bubbles

Bird Enumeration: 120

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

124⁵ people on beach (1 fisherman @ sample point)
1 dog

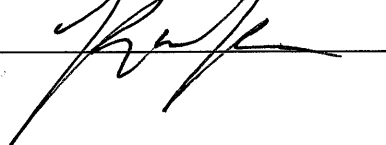
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0958</u>	<u>18.5</u>	<u>33.86</u>	<u>8.04</u>	<u>7.05</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KB-W2

Date: 5/13/22
(mm/dd/yyyy)

Time on Station: 1000
(hh:mm)

FIB SAMPLE TIME: 1000

Water Depth: 0.2

Tide (ft): 3.9+

Time of Slack High
Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: < 1 kt

Water Visibility (ft): < 0.2 m

Surface Water
Conditions: calm minor debris, bubbles

Bird Enumeration: n=0, 1 dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=13 people, 1 dog

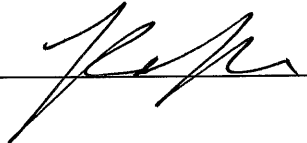
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1004</u>	<u>18.8</u>	<u>33.92</u>	<u>8.06</u>	<u>7.10</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: GD-W2

Date: 5/13/22 Time on Station: 1010
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 1810 Water Depth: 6.8m

Tide (ft): ~3.9 + Time of Slack High Tide: 0802

Weather conditions: sunny, calm

Wind (mph)/direction: 0 Water Visibility (ft): 3.7m

Surface Water Conditions: calm, light surface sheen, dust

Bird Enumeration: 120

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

3 persons on docks

Water Quality Measurements


drifted up entire period
8.4

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1012</u>	<u>17.8</u>	<u>33.88</u>	<u>8.04</u>	<u>6.71</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KK-W2 + KK-W2-DUP

Date: 5/13/22 (mm/dd/yyyy) Time on Station: 1016 (hh:mm)

FIB SAMPLE TIME: 1017/1018 Water Depth: 0.5m

Tide (ft): 3.8+ Time of Slack High Tide: 0802

Weather conditions: swamy, light breeze

Wind (mph)/direction: ~1 Kt (W) Water Visibility (ft): < 0.5m

Surface Water Conditions: calm, no surface debris

Bird Enumeration: 1=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 person on beach

Water Quality Measurements

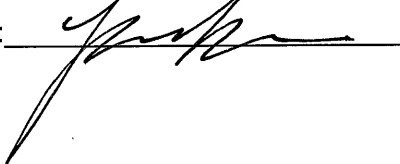
Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1020</u>	<u>18.3</u>	<u>33.86</u>	<u>8.03</u>	<u>error (neg)</u>

7.12

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ EOCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/13/22 Time: 1230 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: REF-1-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0550

FIB SAMPLE TIME: 0555

Water Depth: 20.0

Tide (ft): 0.2+

Time of Slack High
Tide: 00:14

Weather conditions: breezy, overcast, light drizzle

Wind (mph)/direction: south 12-15k Water Visibility (ft): 3.4m

Surface Water
Conditions: light - red chop 1' w

Bird Enumeration: 1-0, 0 people, birds, dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

some ocean bubbles


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0600</u>	<u>18.5</u>	<u>33.51</u>	<u>7.85</u>	<u>7.68</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: GD-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0604

FIB SAMPLE TIME: 0605

Water Depth: 6.0 m

Tide (ft): 0.2

Time of Slack High
Tide: 00:14

Weather conditions: overcast

Wind (mph)/direction: (S) 2-3 kts

Water Visibility (ft): 3.1

Surface Water
Conditions: no debris, light wind

Bird Enumeration: 1=2, no peeps, no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

~20 vessel docked


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0610</u>	<u>18.0</u>	<u>33.64</u>	<u>7.91</u>	<u>7.81</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: KK-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0613

FIB SAMPLE TIME: 0615

Water Depth: 0.3m

Tide (ft): 0.0

Time of Slack High
Tide: 00:14

Weather conditions: Breezy, overcast

Wind (mph)/direction: South 23 kts ^{site} Water Visibility (ft): > 0.3m

Surface Water
Conditions: light surface ripple, no debris

Bird Enumeration: n=0, no people/dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none

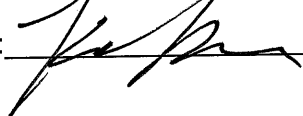
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0620	17.9	33.62	7.74	6.97

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: MC-1-42

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0630

FIB SAMPLE TIME: 0630

Water Depth: 5.1

Tide (ft): 0.0

Time of Slack High
Tide: 00:14

Weather conditions: overcast, breezy, light drizzle

Wind (mph)/direction: 5-8 kts (S)

Water Visibility (ft): 3.4

Surface Water
Conditions: ripples, light chop

Bird Enumeration: 0, no people/dogs/boats

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

no surface debris, no boats

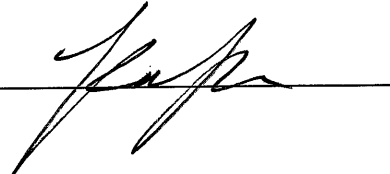
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0632</u>	<u>18.2</u>	<u>33.72</u>	<u>7.97</u>	<u>8.24</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 11:00 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MC-2-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0638

FIB SAMPLE TIME: 0640

Water Depth: 4.7

Tide (ft): -0.3

Time of Slack High
Tide: 00:14

Weather conditions: overcast, Grey

Wind (mph)/direction: 5-7 kt (S)

Water Visibility (ft): 3.4

Surface Water
Conditions: no debris, light chop

Bird Enumeration: no, no-flocks, dogs, boats

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0642</u>	<u>18.3</u>	<u>33.74</u>	<u>7.99</u>	<u>8.30</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: FP-1-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0634 0644

FIB SAMPLE TIME: 0645

Water Depth: 4.2

Tide (ft): -0.4

Time of Slack High
Tide: 0214

Weather conditions: cloudy overcast, breezy

Wind (mph)/direction: 2-5 kt(S) Water Visibility (ft): 2.9

Surface Water
Conditions: light chop - surface

Bird Enumeration: 1=1 mallard, 1=1 person

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

surface debris wind captured from south wind
5 vessels docked @ FP


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0650</u>	<u>18.3</u>	<u>33.73</u>	<u>7.97</u>	<u>8.06</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF3-W3 / OF-3-W3-DUP

Date: 5/20/22
(mm/dd/yyyy)

Time on Station: 0655
(hh:mm)

FIB SAMPLE TIME: 0655 / 0700

Water Depth: 16 m

Tide (ft): -0.5

Time of Slack High
Tide: 00:14

Weather conditions: overcast

Wind (mph)/direction: 1-2 Kt (S)

Water Visibility (ft): 2.4 m > 1.6 m

Surface Water
Conditions: light breeze, no / very little

Bird Enumeration: 1 = 0, no people, dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

0 - minor surface debris

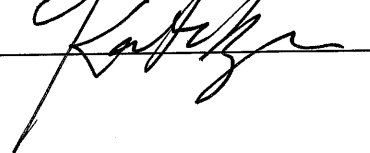
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0700</u>	<u>18.5</u>	<u>32.75</u>	<u>7.97</u>	<u>7.93</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ EOCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF2-W3 + OF2-DW-3(0720)

Date: 5/2 (mm/dd/yyyy) Time on Station: 0715 (hh:mm)

FIB SAMPLE TIME: 0715 / 0720 Water Depth: 0.3

Tide (ft): -0.7 Time of Slack High Tide: 00:14

Weather conditions: cloudy / overcast breezy

Wind (mph)/direction: 2-4 kt (E) Water Visibility (ft): > 0.3

Surface Water Conditions: bubbles

Bird Enumeration: n=1 (heron) 1 person, 1 dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

0-light debris on surface sheen

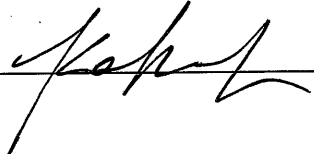
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0730</u>	<u>18.0</u>	<u>31.67</u>	<u>7.93</u>	<u>7.57</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ EOCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: BS-W3

Date: 5/20/22 Time on Station: 0740
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0740 Water Depth: 1.0m

Tide (ft): -0.8 Time of Slack High Tide: 00:14

Weather conditions: cl

Wind (mph)/direction: 78 kt @ Water Visibility (ft): >1.0m

Surface Water Conditions: 1/4 ft chop

Bird Enumeration: 150 2 people, 1 dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

some beach foam


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0745	18.1	33.66	7.98	8.16

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OP1-1-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0750

FIB SAMPLE TIME: 0750

Water Depth: 0.3m

Tide (ft): -0.9

Time of Slack High
Tide: 00:14

Weather conditions: cloudy

Wind (mph)/direction: 5-7 kt (S)

Water Visibility (ft): > 0.3m

Surface Water
Conditions: light chop, bubbles

Bird Enumeration: 121, 170 people/dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

from @ water edge


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0755	18.0	33.7	7.97	7.82

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-W3

Date: 5/20/22 Time on Station: 0800
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0800 Water Depth: 3.3m

Tide (ft): -0.9 Time of Slack High Tide: 00:14

Weather conditions: Unclear, overcast

Wind (mph)/direction: 10-12 (S) Water Visibility (ft): 2.7

Surface Water Conditions: light chop, no debris

Bird Enumeration: n=0, no peep

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 2 boats, arrived @ ~ 0700


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0803</u>	<u>18.2</u>	<u>33.76</u>	<u>8.00</u>	<u>8.18</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1600 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-N3

Date:
(mm/dd/yyyy) 3/20/22

Time on Station:
(hh:mm) 0810

FIB SAMPLE TIME: 0810

Water Depth: 4.5

Tide (ft): -0.9

Time of Slack High
Tide: 00:14

Weather conditions: cloudy / overcast breezy

Wind (mph)/direction: 7-8 kt (S)

Water Visibility (ft): 2.75

Surface Water
Conditions: light chop, no debris, bubbles

Bird Enumeration: 1120, 1 person on boat

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 2 boats,


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0813</u>	<u>18.1</u>	<u>33.77</u>	<u>8.00</u>	<u>8.18</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-W3

Date:
(mm/dd/yyyy) 5/20/22

Time on Station:
(hh:mm) 0815

FIB SAMPLE TIME: 0815

Water Depth: 4.5m

Tide (ft): -0.8

Time of Slack High
Tide: 00:14

Weather conditions: breeze

Wind (mph)/direction: 5-7 kt (S)

Water Visibility (ft): 2-9

Surface Water
Conditions: lt choppy

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 boat @ anchor arrived @ 0700


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0815 0820</u>	<u>18.2</u>	<u>33.77</u>	<u>8.00</u>	<u>8.18</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: NK-W3

Date: 5/20/22 (mm/dd/yyyy) Time on Station: 0825 (hh:mm)

FIB SAMPLE TIME: 0825 Water Depth: 0.6

Tide (ft): -0.8 Time of Slack High Tide: 00:14

Weather conditions: clear cast, breezy

Wind (mph)/direction: 5-6 kt (S) Water Visibility (ft): > 0.6 m

Surface Water Conditions: light chop

Bird Enumeration: 150, 1 person / 10 min

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

moderate debris in water column (kelp strands, eel grass,


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0830</u>	<u>18.0</u>	<u>33.77</u>	<u>7.97</u>	<u>7.95</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KB-W3

Date: 5/10/22 Time on Station: 0835
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0835 Water Depth: 0.3

Tide (ft): -0.8 Time of Slack High Tide: 00:14

Weather conditions: breezy

Wind (mph)/direction: 8-10kts Water Visibility (ft): >0.3

Surface Water Conditions: choppy

Bird Enumeration: n=0 / day, 1 person

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

in water


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0838</u>	<u>17.6</u>	<u>33.6</u>	<u>7.97</u>	<u>7.88</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: ~~072-WS~~ PB-3 (new lab source)

Date: (mm/dd/yyyy) 5/20/22 Time on Station: (hh:mm) 0850

FIB SAMPLE TIME: 0858 Water Depth: _____

Tide (ft): _____ Time of Slack High Tide: _____

Weather conditions: overcast, breezy

Wind (mph)/direction: _____ Water Visibility (ft): _____

Surface Water Conditions: _____

Bird Enumeration: _____

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

FB-fast (0855)

WFO


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/20/22 Time: 1100 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: REF-1-WKD2

Date: 3/21/22 (mm/dd/yyyy) Time on Station: 0612 (hh:mm)

FIB SAMPLE TIME: 0615 Water Depth: 19.6m

Tide (ft): 1.17 Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 3-5 KTS (S) Water Visibility (ft): 2.6m

Surface Water Conditions: light chop, small bubbles

Bird Enumeration: 0, no people

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 2 passing boats

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0620	18.2	33.57	7.99	7.79

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marina Swierczki

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R1-WK02

Date: (mm/dd/yyyy) 5/21/22 Time on Station: (hh:mm) 0634

FIB SAMPLE TIME: 0635 Water Depth: 3.9 m

Tide (ft): 0.8 + Time of Slack High Tide: 01:23

Weather conditions: cloudy, light breeze

Wind (mph)/direction: ~4 kt (S) Water Visibility (ft): 2.4 m

Surface Water Conditions: light

Bird Enumeration: 1=0, no people, no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

15 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0640</u>	<u>18.1</u>	<u>33.67</u>	<u>7.99</u>	<u>8.13</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marina Swierchi

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-~~RT~~-WKDZ
RI

Date: 5/21/22 (mm/dd/yyyy) Time on Station: 0643 (hh:mm)

FIB SAMPLE TIME: 0645 Water Depth: 4.8

Tide (ft): 0.7+ Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 3-4 kt (S) Water Visibility (ft): 2.1m

Surface Water Conditions: light surface wave, no debris

Bird Enumeration: n=0, no people/dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

15 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0646	18.1	33.69	7.99	8.05

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Mario Swiderski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R1-WK02

Date:
(mm/dd/yyyy) 5

Time on Station:
(hh:mm) 0650

FIB SAMPLE TIME: 0650

Water Depth: 5.2m

Tide (ft): 0.6+

Time of Slack High
Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 3-4 KTR (S) Water Visibility (ft): 2.5m

Surface Water
Conditions: light wind chop

Bird Enumeration: n=4, n=8 people/dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=15 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0655</u>	<u>18.2</u>	<u>33.69</u>	<u>7.99</u>	<u>8.05</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marin Swiderski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R2-WKD2

Date: 5/21/22 (mm/dd/yyyy) Time on Station: 0735 (hh:mm)

FIB SAMPLE TIME: 0735 Water Depth: 3.9m

Tide (ft): 0.1+ Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 4.5kts (S) Water Visibility (ft): 2.4m

Surface Water Conditions: light wind

Bird Enumeration: n=0, 1 dog on paddle board

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

15 boats @ anchor
2 paddle boards + 1 dog

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0736	18.1	33.72	8.07	8.05

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marin Swiderski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-R2-NKD2 / A1-2-R2-NKD2

Date: 5/21/22 (mm/dd/yyyy) Time on Station: 0750 (hh:mm)

FIB SAMPLE TIME: 0750/0751 Water Depth: 4.3

Tide (ft): -0.2 Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 4-5kt (S) Water Visibility (ft): 2.9

Surface Water Conditions: light chop, no debris

Bird Enumeration: n=0, 1 person topside

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=15 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0754</u>	<u>18.2</u>	<u>33.72</u>	<u>8.00</u>	<u>8.20</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Mario Swiderski

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-R2-WR2

Date:
(mm/dd/yyyy) 5/21/22

Time on Station:
(hh:mm) 0800

FIB SAMPLE TIME: 0800

Water Depth: 4.9m

Tide (ft): -0.3

Time of Slack High
Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 34 kts (S)

Water Visibility (ft): 2-4m

Surface Water
Conditions: light chop

Bird Enumeration: n=1 gull, 1 topside

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

15 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0805</u>	<u>18.2</u>	<u>33.73</u>	<u>7.99</u>	<u>7.98</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marin Swiderski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-R3-WKD2

Date: (mm/dd/yyyy) 5/21/22 Time on Station: (hh:mm) 0835

FIB SAMPLE TIME: 0835 Water Depth: 3.5 m

Tide (ft): -0.4 Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 3-5 kts (S) Water Visibility (ft): 2.5 m

Surface Water Conditions: light surface waves, no debris

Bird Enumeration: 1-2, no people, no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1215 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0838</u>	<u>18.2</u>	<u>33.74</u>	<u>8.04</u>	<u>8.23</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marisa Swiderski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-K3-LWKD2

Date: 5/21/22 (mm/dd/yyyy) Time on Station: 0845 (hh:mm)

FIB SAMPLE TIME: 0845 Water Depth: 4.6

Tide (ft): -0.5 Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 3-4 kt (S) Water Visibility (ft): 2.7 n

Surface Water Conditions: light chop, no debris

Bird Enumeration: 120 120 people/dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1215 boats @ anchor

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0847</u>	<u>18.2</u>	<u>33.74</u>	<u>8.02</u>	<u>8.24</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marisa Swaleski

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3 R3-WK02

Date: (mm/dd/yyyy) 5/21/22 Time on Station: (hh:mm) 0850

FIB SAMPLE TIME: 0850 Water Depth: 4.7m

Tide (ft): -0.5 Time of Slack High Tide: 01:23

Weather conditions: c/ndy

Wind (mph)/direction: 4-5 kts (S) Water Visibility (ft): 2.7m

Surface Water Conditions: light su-

Bird Enumeration: 1-2, 1-3 person topside

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

12/5 boats

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0853</u>	<u>18.2</u>	<u>33.74</u>	<u>8.01</u>	<u>8.04</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marin Swiderki

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF2-WK2 / OF2-DW-3

Date: 5/21/22 (mm/dd/yyyy) Time on Station: 0700 (hh:mm)

FIB SAMPLE TIME: 0700 / 0710 Water Depth: 1.0+

Tide (ft): 0.4+ Time of Slack High Tide: 01:23

Weather conditions: cloudy

Wind (mph)/direction: 2-3 kts Water Visibility (ft): > 1.0 m

Surface Water Conditions: light breeze, bubbles @ outfall

Bird Enumeration: n=0 bird, no people/no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

flow 2 gals/min

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0700	18.1	33.59	7.96	7.52

(DW3) 0710 17.3 0.84 8.91 9.58

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ✓ Field data sheet completed, notable observations recorded
- ✓ Photos taken
- ✓ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ✓ Samples collected within 25 feet of target location? If not, please describe below.
- ✓ "Clean Hands" sampling techniques followed
- ✓ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ✓ COCs filled out and cross-checked with sample labels
- ✓ Samples delivered within holding time requirements

Date: 05/21/2022 Time: 1100 Signature: Marie Anderson

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: REF-1-N4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0500 (hh:mm)

FIB SAMPLE TIME: 0800 Water Depth: 20.8m

Tide (ft): +2.0 Time of Slack High Tide: 04:16

Weather conditions: overcast, cloudy

Wind (mph)/direction: 3 Kts (S/SW) Water Visibility (ft): 3.1m

Surface Water Conditions: light chop

Bird Enumeration: 1=0, no surface debris

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 passing boats


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0804</u>	<u>18.4</u>	<u>33.46</u>	<u>7.95</u>	<u>7.66</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: GD-W4

Date: (mm/dd/yyyy) 5/23/22 Time on Station: (hh:mm) 0870

FIB SAMPLE TIME: 0810 Water Depth: 6.6

Tide (ft): 2.0+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: <1 kt (S/SW) Water Visibility (ft): 4.0

Surface Water Conditions: calm, no surface debris.

Bird Enumeration: 1 = 0, 1 = 1 people/dog = 0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0815</u>	<u>18.6</u>	<u>33.59</u>	<u>7.91</u>	<u>7.22</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: KK-W4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 08:20m (hh:mm)

FIB SAMPLE TIME: 0820 Water Depth: 0.3m

Tide (ft): 1.7+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1 kt (S/SW) Water Visibility (ft): > 0.3m

Surface Water Conditions: light ripples

Bird Enumeration: n=0, 2 pers.

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

nmc, 1 passing vessel


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0821	18.6	33.62	7.91	7.18

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MC-1-W4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0827 (hh:mm)

FIB SAMPLE TIME: 0830 Water Depth: 5.5m

Tide (ft): 1.8+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1 kt SSW Water Visibility (ft): 1.9m

Surface Water Conditions: v. light ripples

Bird Enumeration: n=0

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1 paddler , 1 strand of floating kelp

Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0831</u>	<u>18.7</u>	<u>33.68</u>	<u>7.97</u>	<u>7.99</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

Field data sheet completed, notable observations recorded

Photos taken

All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)


Samples collected within 25 feet of target location? If not, please describe below.

"Clean Hands" sampling techniques followed

Samples sealed in secondary container (plastic bag) and immediately placed on ice

COCs filled out and cross-checked with sample labels

Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: MC2-W4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0835 (hh:mm)

FIB SAMPLE TIME: 0835 Water Depth: 5.3 m

Tide (ft): 1.6 + Time of Slack High Tide: 04:16

Weather conditions: C/rndy

Wind (mph)/direction: <1-2 kts (S/SW) Water Visibility (ft): 3.1 m

Surface Water Conditions: light ripples, no debris, calm

Bird Enumeration: 1=0, no birds, people or dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

None

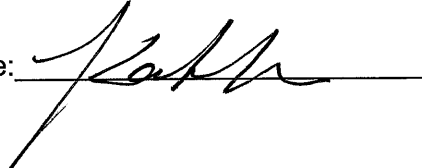
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>0837</u>	<u>18.9</u>	<u>33.70</u>	<u>7.96</u>	<u>7.86</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: FP-N4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0845 (hh:mm)

FIB SAMPLE TIME: 0845 Water Depth: 4.5m

Tide (ft): 1.5e 1.24 Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: < 1KT Water Visibility (ft): 2.3m

Surface Water Conditions: calm surface sheen / fuel

Bird Enumeration: 120, 1 person

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

oil sheen, fish waste floating
6 vessels docked @ FP

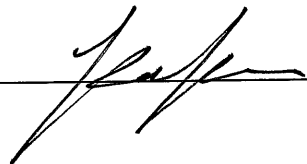
Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0846	18.9	33.70	7.94	7.54

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ GOCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF3-W4

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0850 (hh:mm)

FIB SAMPLE TIME: 0850 Water Depth: 2.0 m

Tide (ft): ~1.0+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: <1 kt Water Visibility (ft): 2.1 m

Surface Water Conditions: calm, no debris

Bird Enumeration: 1=0, no people / no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

1= none


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0851	19.0	33.71	7.93	7.25

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ EOCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OP2-W4 / OP2-DW-5

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0905 (hh:mm)

FIB SAMPLE TIME: 0905 / 0915 Water Depth: 1.0 m

Tide (ft): -0.8 + Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1-2 kts (S/SW) Water Visibility (ft): > 1.0 m

Surface Water Conditions: v. light ripples, some surface dust/debris.

Bird Enumeration: n=0, n=4 people / hr² days

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

*bubbles @ water surface,
flow ~ 4 gal/min*

Water Quality Measurements


Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0909	18.8	32.70	7.93	6.77

OP2-DW-5 0915 17.8 0.61 8.76 9.49

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: BS-WY

Date: 5/29/22 (mm/dd/yyyy) Time on Station: 0920 (hh:mm)

FIB SAMPLE TIME: 0920 Water Depth: 0.3

Tide (ft): ~0.4+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 2-3 kts (SE) Water Visibility (ft): >0.3

Surface Water Conditions: light chop no surface

Bird Enumeration: 11-12 (Heron), 1-10 people, 1-3 dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

2 people on beach, others on yacht
+ 1 dog.


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0925	18.7	33.67	7.93	7.29

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: OF1-N4 / CF1-DW-1

Date: 5/23/ Time on Station: 0930
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 0930 / 0935 Water Depth: 0.3

Tide (ft): ~0.3 + Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1-2 kts (S/W) Water Visibility (ft): > 0.3

Surface Water Conditions: light wind, no debris

Bird Enumeration: =0 n=1 dog, n=1 person

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

oat fall flowing ~ 1 gal/min

Water Quality Measurements


Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0932	18.7	23.65	7.97	7.80

OF1-DW-1 0935 17.9 0.73 8.43 8.87

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: A1-1-W4/A1-1-W4 dup

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 0945 (hh:mm)

FIB SAMPLE TIME: 0945/0946 Water Depth: 3.6m

Tide (ft): ~0.2+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 2-3 S/SW Water Visibility (ft): 2.0 n

Surface Water Conditions: light chop, no debris

Bird Enumeration: n=0, 4 people, 2 dogs on deck

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=6 boats @ sample time, several boats pulling anchor

1 boat in near vicinity during sampling ~40ft.


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
0950	18.8	33.72	7.97	7.65

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-2-W4

Date: (mm/dd/yyyy) 5/23/22 Time on Station: (hh:mm) 0955

FIB SAMPLE TIME: 0955 Water Depth: 4.8m

Tide (ft): ~ 0.2+ Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1-3 Kts SSW Water Visibility (ft): 2.7m

Surface Water Conditions: light ripples, no debris

Bird Enumeration: n=0, 2 people 1 dog

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n = 3 boats @ anchor, none in vicinity of sample


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1050</u>	<u>18.8</u>	<u>33.73</u>	<u>7.99</u>	<u>7.99</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: A1-3-W4

Date: (mm/dd/yyyy) 5/23/22

Time on Station: (hh:mm) 1000

FIB SAMPLE TIME: 1000

Water Depth: 4.9

Tide (ft): ~0.2 +

Time of Slack High Tide: 04:10

Weather conditions: cloudy

Wind (mph)/direction: 2-3kts (S/SW) Water Visibility (ft): 2.5m

Surface Water Conditions: light chop

Bird Enumeration: n=0, n=2 people, 0 dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

n=3 boats @ anchor
no boats in vicinity during sampling


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1003</u>	<u>18.7</u>	<u>33.74</u>	<u>7.75</u>	<u>7.71</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ EOCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:20 Signature: 

FIELD WATER QUALITY DATA FORM

Station Identification: NK-NY

Date: 5/23/22 (mm/dd/yyyy) Time on Station: 1016 (hh:mm)

FIB SAMPLE TIME: 1010 Water Depth: 0.3

Tide (ft): ~0.1 + Time of Slack High Tide: 04:16

Weather conditions: cloudy

Wind (mph)/direction: 1-3 Kts / SW Water Visibility (ft): > 0.3

Surface Water Conditions: calm, no debris.

Bird Enumeration: 7=0, 4 people on beach, no dogs

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

nil Kayak on beach.

*4 boats anchored from la playa
150 yards south of NK Beach*


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1012</u>	<u>18.8</u>	<u>33.76</u>	<u>7.97</u>	<u>7.80</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

PORT OF SAN DIEGO
SHELTER ISLAND YACHT BASIN
2022 Bacteria Special Study

FIELD WATER QUALITY DATA FORM

Station Identification: LB-W4

Date: 1020 5/23/22 Time on Station: 1020
(mm/dd/yyyy) (hh:mm)

FIB SAMPLE TIME: 1020 Water Depth: 0.3

Tide (ft): ~0.1+ Time of Slack High Tide: 04:10

Weather conditions: cloudy

Wind (mph)/direction: 2-3 kt (S/SW) Water Visibility (ft): >0.3

Surface Water Conditions: light chop, no debris

Bird Enumeration: n = 1 gull, n = 4 people, one swimmer on beach
n = 2 dogs.

Other Notes: including any potential confounding factors of concern observed (e.g., sheens, discoloration, odors, slicks, boat maintenance, plankton blooms, recent rain events, presence of animals, eelgrass, kelp wrack, floatable material):

none


Water Quality Measurements

Time of Measurement	Temperature (°C)	Salinity (ppt)	pH	DO (mg/L)
<u>1022</u>	<u>19.2</u>	<u>33.80</u>	<u>7.98</u>	<u>8.15</u>

FIELD WATER QUALITY DATA FORM

QAQC Checklist:

- ☒ Field data sheet completed, notable observations recorded
- ☒ Photos taken
- ☒ All bacteria samples collected (125-mL HDPE: Total Coliform and *Enterococcus*)
- ☒ Samples collected within 25 feet of target location? If not, please describe below.
- ☒ "Clean Hands" sampling techniques followed
- ☒ Samples sealed in secondary container (plastic bag) and immediately placed on ice
- ☒ COCs filled out and cross-checked with sample labels
- ☒ Samples delivered within holding time requirements

Date: 5/23/22 Time: 12:30 Signature: 

APPENDIX B

FIELD DATA SUMMARY TABLES

Station Identification	Further Identification	Survey Date	Time on Station	FIB Sample Time	Water Depth (m)	Tide (ft)	Time of Slack High Tide	Weather Conditions	Wind Direction	Wind Speed Minimum (mph)	Wind Speed Maximum (mph)	Water Visibility (m)	Surface Water Conditions	Number of Birds	Number of People	Number of Vessels	Number of Dogs	Water Quality Time of Measurement	Water Quality Temperature (°C)	Water Quality Salinity (ppt)	Water Quality pH	Water Quality DO (mg/L)	Other Notes
Guest Dock	W1	05/06/22	6:00	6:00	6.0	1.4	23:58	Cloudy, Calm	NA	0	0	4.1	Calm	2	0	~20	0	6:05	18.5	34.15	8.02	7.82	Sample collected in marina/harbor, number of vessels is approximate. Some oily sheen throughout docks. Patchy, avoided during sampling by moving 75ft west
Kona Kai	W1	05/06/22	6:10	6:10	2.5	1.1	23:58	Cloudy, Calm (clearing)	NA	0	0	2.5	Calm	1	0	~20	0	6:15	18.6	34.36	8.05	7.36	Sample collected in marina/harbor, number of vessels is approximate.
REF-1	W1	05/06/22	6:25	6:25	20.4	1.0	23:58	Cloudy, calm	NA	0	0	2.9	Calm, some texture	0	0	0	0	6:28	18.7	34.45	8.09	7.95	
MC-1	W1	05/06/22	6:35	6:35	5.3	1.0	23:58	Cloudy, Calm	NA	0	0	2.8	Calm	0	0	0	0	6:38	18.6	34.47	8.09	8.12	no sheen or surface debris or kelp
MC-2	W1	05/06/22	6:45	6:45	5.0	0.9	23:58	Calm	E	0	1	2.7	Calm, slight texture	0	0	0	0	6:48	18.8	34.50	8.07	7.91	no surface debris or kelp
Fuel Pier	W1	05/06/22	6:55	6:55	4.5	0.9	23:58	Cloudy, calm	E	0	1	2.3	Calm	0	1	6	0	6:58	18.7	34.51	8.02	7.15	Vessel turning barge while fueling within 10 yds of sampling location
OF-3	W1	05/06/22	7:00	7:00	1.9	0.8	23:58	Calm	NA	0	0	2.4	Calm	0	0	~20	0	7:05	18.7	34.50	8.01	7.20	Sample collected in marina/harbor, number of vessels is approximate. Sample collected in marina/harbor, number of vessels is approximate. No surface debris or kelp
OF-2	W1	05/06/22	7:20	7:20	0.3	0.6	23:58	Cloudy, calm	S	0	1	0.3	Calm	0	2	0	0	7:25	18.6	34.39	8.04	7.18	Discharge from OF2 observed, salinity 1.4ppt and 18 inches above waterline. No Surface debris
Bessemer Street	W1	05/06/22	7:35	7:40	0.3	0.6	23:58	Cloudy, Calm	S	0	1	0.3	Calm, some bubbles on surface	0	1	0	0	7:44	18.5	34.32	8.05	7.24	DUP collected at 0741. No discharge from outfall, one strand of feather boa kelp on beach. Some floating kelp offshore
OF-1	W1	05/06/22	7:50	7:50	0.3	0.5	23:58	Cloudy, calm	NA	0	0	1.8	Calm	0	2	0	0	7:58	18.6	34.46	8.06	7.73	No discharge from OF1
A1-1	W1	05/06/22	8:00	8:00	3.6	0.5	23:58	Calm	S	0	1	2.8	Calm	0	0	0	0	8:02	18.6	34.49	8.09	8.10	
A1-2	W1	05/06/22	8:05	8:05	4.5	0.5	23:58	Cloudy, Calm	S	1	2	2.9	Some texture	0	0	1	0	8:07	18.6	34.50	8.09	8.06	One boat anchored 150 ft SW during sampling
A1-3	W1	05/06/22	8:10	8:10	5.0	0.5	23:58	Cloudy, calm	S	0	1	3.2	Calm	0	0	1	0	8:14	18.7	34.52	8.09	8.05	One vessel anchored 200 ft SW
North Kellogg	W1	05/06/22	8:20	8:20	0.6	0.5	23:58	Cloudy, calm	S	0	1	0.6	calm, slight texture	0	1	0	0	8:25	18.6	34.52	8.10	8.17	Sandy bottom, one piece of eelgrass floating, avoided during sampling
Kellogg Beach	W1	05/06/22	8:30	8:30	0.6	0.5	23:58	Cloudy, Breezy	S	1	2	0.6	Some texture	1	5	0	5	8:32	18.6	34.44	8.09	8.33	Filamentous green algae growing on bottom, see photos.
REF-1	WKD	05/07/22	6:20	6:25	18.4	1.5	0:48	Cloudy, Breezy	S	7	8	2.5	Textured	0	0	0	0	6:28	19.2	34.26	7.97	8.14	
A1-1	R1-WKD1	05/07/22	6:40	6:40	3.9	1.5	0:48	Cloudy, Breezy	S	5	5	2.5	Slight texture	0	0	20	0	6:45	19.1	34.40	8.05	8.16	
A1-2	R1-WKD1	05/07/22	6:45	6:50	5.0	1.5	0:48	Cloudy, Breezy	S	5	5	2.9	Slight texture	0	0	20	0	6:50	19.0	34.45	8.05	8.15	
A1-3	R1-WKD1	05/07/22	6:55	6:55	5.3	1.4	0:48	Cloudy, Breezy	S	3.5	3.5	3.4	Slight texture	0	0	20	0	7:00	19.2	34.48	8.05	8.02	DUP Collected at 06:56
OF-2-DW1	WKD1	05/07/22	7:15	7:20	0.3	1.1	0:48	Cloudy, Breezy	S	1	2	2	calm, some bubbling	0	0	0	0	7:15	17.7	3.28	8.48	9.04	Flow from outfall estimated at 2 gpm. WQ from RW: Temp (19.1), Salinity (33.80), pH (8.02), DO (7.45)
A1-1	R2-WKD1	05/07/22	7:40	7:40	3.8	1.0	0:48	Cloudy, Calm	S	3	3	2.5	Light texture	0	0	20	0	7:42	19.0	34.44	8.11	8.13	
A1-2	R2-WKD1	05/07/22	7:45	7:45	5.0	1.0	0:48	Cloudy, Calm	S	1	2	3.0	Calm	0	3	20	0	7:49	19.0	34.50	8.08	8.14	Paddle boarder along Bessemer (1)
A1-3	R2-WKD1	05/07/22	7:55	7:55	5.1	0.8	0:48	Cloudy, Calm	S	0	1	3.3	Calm	0	6	20	0	7:57	19.1	34.53	8.08	8.04	All people topside
A1-1	R3-WKD1	05/07/22	8:40	8:40	3.7	0.6	0:48	Cloudy, Breezy	S	7.5	7.5	2.4	Slight texture	0	6	20	0	7:45	19.0	34.46	8.14	8.18	2 paddle boarders
A1-2	R3-WKD1	05/07/22	8:50	8:50	4.5	0.5	0:48	Cloudy, Breezy	S	7	7	2.8	Light texture	0	0	20	0	8:52	19.0	34.51	8.12	8.22	
A1-3	R3-WKD1	05/07/22	8:55	8:55	4.9	0.5	0:48	Cloudy, Calm	S	4	4	3.3	Slight texture	0	4	21	0	8:58	19.2	34.54	8.11	8.06	3 paddle boarders, 1 kayaker nearby
REF-1	SH	05/10/22	7:55	7:55	21.3	3.0	5:18	Sunny, Calm	NA	0	0	2.3	Calm	0	0	21	0	7:57	18.5	34.20	8.06	7.83	
A1-1	R1-SH	05/10/22	8:13	8:15	4.3	3.0	5:18	Sunny, Calm	NA	0	0	2.3	Calm	0	1	21	0	8:16	19.2	34.49	8.11	7.85	a few strands of kelp on surface
A1-2	R1-SH	05/10/22	8:20	8:20	5.0	2.9	5:18	Sunny, Calm	NA	0	0	2.6	Calm	0	4	21	0	8:21	19.2	34.54	8.11	7.90	One paddle boarder and three people topside
A1-3	R1-SH	05/10/22	8:27	8:30	5.5	2.8	5:18	Sunny, Calm	S	0	1	2.5	Calm	0	0	21	0	8:32	19.4	34.56	8.11	7.80	A1-3 R1-SH-DUP conducted at 0831
A1-1	R2-SH	05/10/22	9:15	9:15	4.0	1.8	5:18	Sunny, mostly calm	NW	1	3	2.3	Mostly calm	0	5	21	2	9:22	19.4	34.60	8.18	7.90	Dogs on two different vessels. One kayaker. Some people out on dinghy's.
A1-2	R2-SH	05/10/22	9:25	9:25	4.8	1.8	5:18	Sunny, mostly calm	NW	1	2	2.5	light breeze, some bubbles	0	3	21	2	9:26	19.4	34.59	8.13	7.92	
A1-3	R2-SH	05/10/22	9:30	9:30	5.3	1.8	5:18	Sunny, light breeze	W	2	4	2.8	Slight texture	0	7	21	2	9:35	19.4	34.61	8.12	7.86	One paddle boarder and one diver, one topside cleaner ~50 yds of sample collection (polishing). See photo.
OF-2-DW2	SH	05/10/22	9:45	9:45	0.3	1.5	5:18	Sunny, light breeze	W, NW	1	2	NA	Mostly calm	0	5	0	3	9:45	17.3	0.68	8.81	9.47	DW-2 Flow ~2 gpm. From RW: temp 19.4, sal: 34.44, pH: 8.05, DO: 6.87. Taken at 1 ft depth 1 ft from outfall
A1-1	R3-SH	05/10/22	10:12	10:15	3.6	1.2	5:18	Sunny, light breeze	W, NW	2	4	2.7	Light texture	0	0	21	1	10:17	19.7	34.62	8.14	7.70	Several dinghy's out, on beach
A1-2	R3-SH	05/10/22	10:20	10:20	4.6	1.1	5:18	Sunny, light breeze	W, NW	2	3	2.5	Light texture	0	3	21	2	10:24	19.6	34.63	8.12	7.91	
A1-3	R3-SH	05/10/22	10:30	10:30	5.0	1.0	5:18	Sunny, light breeze	W, NW	2	4	2.9	Light texture	0	2	21	2	10:35	19.6	34.64	8.12	7.83	
REF-1	W2	05/13/22	7:50	7:50	20.9	4.6	8:02	Sunny, Calm	NA	0	1	3.7	Calm	0	0	0	0	7:58	16.2	33.26	7.89	6.22	Rental meter used for WQ readings.
A1-1	W2	05/13/22	8:15	8:15	4.8	4.6	8:02	Sunny, Calm	NA	0	0	2.7	Calm	0	3	3	1	8:20	17.7	33.66	7.98	6.50	Some dust/debris on water after several days of high winds, Santa Ana's last night. A couple boats remaining in the anchorage.
A1-2	W2	05/13/22	8:24	8:25	5.5	4.5	8:02	Sunny, Calm	E	0	1	2.8	Mostly calm	0	4	3	0	8:27	17.7	33.69	8.01	6.58	3 prone paddleboarders and 1 standup
A1-3	W2	05/13/22	8:30	8:30	5.9	4.5	8:02	Sunny, Calm	E	0	1	2.6	Calm, minor dust/debris, some sheen	0	3	3	0	8:34	17.8	33.73	8.02	6.74	2 people on deck, 1 paddleboard
OF-1	W2	05/13/22	8:37	8:40	0.3	4.4	8:02	Sunny, Calm	NA	0	0	0.3	calm, Some pollen/debris. See photo.	1	5	0	1	8:44	18.0	33.83	8.02	6.42	5 people on walking path
Bessemer Street	W2	05/13/22	8:48	8:50	0.6	4.3	8:02	Sunny, Calm	NA	0	0	0.6	Some surface film/bubble sea photo	0	4	0	0	8:53	18.1	33.76	8.03	6.05	4 people on walking path
OF-2	W2	05/13/22	9:00	9:00	1.0	4.2	8:02	Sunny, Calm	NA	0	0	1	Some pollen/surface debris	0	6	0	0	9:02	17.8	32.76	8.02	6.15	6 people on walking path. Outfall inundated with bay water due to tide.
OF-3	W2	05/13/22	9:15	9:15	3.0	4.1	8:02	Sunny, Calm	NA	0	1	2.1	Some surface film/ dust, see photo	0	1	~20	0	9:17	18.1	33.88	8.01	5.49	Sample collected in marina/harbor, number of vessels is approximate. 1 person on dock
Fuel Pier	W2	05/13/22	9:25	9:25	5.4	4.0	8:02	Sunny, Calm	E	1	1	2.5	Some sheen near sample area avoided during sampling	0	4	1	0	9:30	18.1	33.86	7.98	5.67	
MC-2	W2	05/13/22	9:35	9:35	5.7	4.0	8:02	Sunny, Calm	E	1	1	2.8	Mostly calm	0	1	0	0	9:38	18.1	33.91	8.06	6.41	Topside cleaning within 50 yds
MC-1	W2	05/13/22	9:45	9:45	6.1	4.0	8:02	Sunny, Calm	E	0	1	2.9	Mostly calm	0	2	2	0	9:47	18.1	33.86	8.06	7.25	
North Kellogg	W2	05/13/22	9:55	9:55	0.1	3.9	8:02	Sunny, Calm	E	0	1	0.1	Calm, some bubbles	0	5	0	1	9:58	18.5	33.86	8.04	7.05	
Kellogg Beach	W2	05/13/22	10:00	10:00	0.2	3.9	8:02	Sunny, Calm	E	0	1	0.2	Calm, Some bubble, algae debris	0	13	0	1	10:04	18.8	33.92	8.06	7.10	
Guest Dock	W2	05/13/22	10:10	10:10	6.8	3.9	8:02	Sunny, Calm	NA	0	0	3.7	Calm, Some dust/debris	0	3	~20	0	10:12	17.8	33.88	8.04	6.71	Sample collected in marina/harbor, number of vessels is approximate. 3 people on docks
Kona Kai	W2	05/13/22	10:16	10:17	0.5	3.8	8:02	Sunny, light breeze	W	1	1	0.5	Calm	0	1	~20	0	10:20	18.3	33.86	8.03	7.12	Sample collected in marina/harbor, number of vessels is approximate. KK-W2-DUP collected at 10:18. 1 person on beach.
REF-1	W3	05/20/22	5:50	5:55	20.0	0.2	0:14	Sunny, Calm	S	12	15	3.4	Some sea foam bubbles	0	0	0	0	6:00	18.5	33.59	7.85	7.68	
Guest Dock	W3	05/20/22	6:04	6:05	6.0	0.2	0:14	Overcast, Breezy	S	2	5	3.1	No debris light wind	2	0	~20	0	6:10	18.0	33.64	7.91	7.81	Sample collected in marina/harbor, number of vessels is approximate.
Kona Kai	W3	05/20/22	6:13	6:15	0.3	0.0	0:14	Overcast, Breezy	S	2	3	0.3	Slight texture	0	0	~20	0	6:20	17.9	33.62	7.94	6.97	Sample collected in marina/harbor, number of vessels is approximate.
MC-1	W3	05/20/22	6:30	6:30	5.1	0.0	0:14	Overcast, Breezy	S	5	8	3.4	Slight texture	0	0	0	0	6:32	18.2	33.72	7.97	8.24	
Fuel Pier	W3	05/20/22	6:44	6:45	4.2	-0.4	0:14	Overcast, Breezy	S	2	5	2.9	Slight texture	1	1	5	0	6:50	18.3	33.73	7.97	8.06	
MC-2	W3	05/20/22	6:38	6:40	4.7	-0.3	0:14	Overcast, Breezy	S	5	7	3.4	Moderate texture	0	0	0	0	6:42	18.3	33.74	7.99	8.30	
OF-3	W3	05/20/22	6:55	6:55	1.6	-0.5	0:14	Overcast, Breezy	S	1	2	1.6	Clear. Some surface debris.	0	0								

Station Identification	Further Identification	Survey Date	Time on Station	FIB Sample Time	Water Depth (m)	Tide (ft)	Time of Slack High Tide	Weather Conditions	Wind Direction	Wind Speed Minimum (mph)	Wind Speed Maximum (mph)	Water Visibility (m)	Surface Water Conditions	Number of Birds	Number of People	Number of Vessels	Number of Dogs	Water Quality Time of Measurement	Water Quality Temperature (°C)	Water Quality Salinity (ppt)	Water Quality pH	Water Quality DO (mg/L)	Other Notes
A1-2	R3-WKD2	05/21/22	8:45	8:45	4.6	-0.5	1:23	Cloudy, Breezy	S	3	4	2.7	Light chop, no debris	0	0	15	0	8:47	18.2	33.74	8.02	8.24	
A1-3	R3-WKD2	05/21/22	8:50	8:50	4.7	-0.5	1:23	Cloudy, Breezy	S	4	5	2.7	Light chop, no debris	0	3	15	0	8:53	18.2	33.74	8.00	8.04	3 people topside
REF-1	W4	05/23/22	8:00	8:00	20.8	2.0	4:16	Cloudy, Breezy	S, SW	3	3	3.1	Slight texture	0	0	2	0	8:04	18.4	33.46	7.95	7.66	2 passing boats
Guest Dock	W4	05/23/22	8:10	8:10	6.6	2.0	4:16	Cloudy	S, SW	0	1	4	Calm	0	1	~20	0	8:15	18.6	33.59	7.91	7.22	Sample collected in marina/harbor, number of vessels is approximate.
Kona Kai	W4	05/23/22	8:20	8:20	0.3	1.9	4:16	Cloudy, calm	S, SW	1	1	0.3	light ripples	0	2	~20	0	8:21	18.6	33.62	7.91	7.18	Sample collected in marina/harbor, number of vessels is approximate. 1 passing vessel
MC-1	W4	05/23/22	8:27	8:30	5.5	1.8	4:16	Cloudy, calm	S, SW	1	1	1.9	light ripples	0	1	0	0	8:31	18.7	33.68	7.97	7.99	1 strand of kelp on surface
MC-2	W4	05/23/22	8:35	8:35	5.3	1.6	4:16	Cloudy, Breezy	S, SW	1	2	3.1	Light ripples	0	0	0	0	8:37	18.9	33.70	7.96	7.86	
Fuel Pier	W4	05/23/22	8:45	8:45	4.5	1.2	4:16	Cloudy, calm	S, SW	0	1	2.3	Sheen, some debris including fish waste	0	1	6	0	8:46	18.9	33.70	7.94	7.54	some debris including fish waste
OF-3	W4	05/23/22	8:50	8:50	2.0	1.0	4:16	Cloudy, calm	S, SW	0	1	2.1	Calm	0	1	~20	0	8:51	19.0	33.71	7.93	7.25	Sample collected in marina/harbor, number of vessels is approximate.
OF-2	W4	05/23/22	9:05	9:05	1.0	0.8	4:16	Cloudy, Breezy	S, SW	1	2	1	Bubbles from discharge	0	4	0	2	9:09	18.8	32.70	7.93	6.77	OF 2 flowing at ~4 gpm. OF2- DW -S: temp-17.8, sal- 0.61, ph-8.76, DO- 9.49. Sample collected at 0915
Bessemer Street	W4	05/23/22	9:20	9:20	0.3	0.4	4:16	Cloudy, Calm	S, SW	2	3	0.3	light chop	1	10	0	3	9:25	18.7	33.67	7.93	7.29	
OF-1	W4	05/23/22	9:30	9:30	0.3	0.3	4:16	Cloudy, Breezy	S, SW	1	2	0.3	light wind	0	1	0	1	9:32	18.7	33.65	7.97	7.80	Outfall actively discharging (~1 gpm). From discharge: Temp- 17.9, sal-0.73, ph- 8.43, DO- 8.87. Sample collected at 0935.
A1-1	W4	05/23/22	9:45	9:45	3.6	0.2	4:16	Cloudy, Breezy	S, SW	2	3	2	light chop	0	4	6	2	9:50	18.8	33.72	7.97	7.65	6 vessels remaining in anchorage. One leaving at 0947, 2 others preparing to leave. 1 boat ~40 ft from sampling location. 11 counted at 0930 before sampling. OUP collected at 0946.
A1-2	W4	05/23/22	9:55	9:55	4.8	0.2	4:16	Cloudy	S, SW	1	3	2.7	light ripples	0	2	3	1	10:00	18.8	33.73	7.99	7.99	3 vessels in anchorage. 3 others recently departed.
A1-3	W4	05/23/22	10:00	10:00	4.9	0.2	4:16	Cloudy	S, SW	2	3	2.5	Light chop	0	2	3	0	10:03	18.9	33.74	7.99	7.91	3 vessels in anchorage, none in vicinity during sampling
North Kellogg	W4	05/23/22	10:10	10:10	0.3	0.1	4:16	Cloudy, Breezy	S, SW	1	3	0.3	Clear, calm	0	4	1	0	10:12	18.8	33.76	7.97	7.80	1 kayak and 4 people on beach. 4 vessels anchored at moorings nearby, ~150 yds south. See photo. Appeared to have re-anchored from La playa
Kellogg Beach	W4	05/23/22	10:20	10:20	0.3	0.1	4:16	Cloudy, Breezy	S, SW	2	3	0.3	light chop	1	4	0	2	10:22	19.2	33.80	7.98	8.05	One swimmer, 2 dogs, 4 people and one gull observed on beach

Notes: A1 = A-1 Anchorage; DO = dissolved oxygen; DW = dry weather flow (discharge observed from outfall); gpm = gallons per minute; MC = main channel; mg/L = milligrams per liter; NA = not applicable; NR = not recorded; NW = northwest; OF = Outfall; ppt = parts per thousand; REF = reference; RW = receiving water; S = south; SW = southwest; W = west; W4 = week 4; WKD = weekend; WQ = water quality

SIYB Bacteria Special Study 2022- Field Water Quality Data Summary: Dry Weather Flow and Receiving Water									
Sample Date	Station Identification	FIB Sample Time	Discharge or Receiving Water (RW)?	Water Quality - Temperature (-C)	Water Quality - Salinity (ppt)	Water Quality - pH	Water Quality - DO (mg/L)	Estimated Flow (gpm)	Notes
5/6/2022	OF-2-W1	NA	Discharge	NA	1.49	NA	NA	NR	No discharge FIB sample collected, salinity measurement only.
5/7/2022	OF-2-DW1-WKD1	7:20	Discharge	17.7	3.28	8.48	9.04	2	Discharge FIB sample.
5/7/2022	OF-2-WKD1	NA	RW	19.1	33.8	8.02	7.45	NA	No receiving water FIB sample collected, WQ only.
5/10/2022	OF-2-DW2-SH	9:45	Discharge	17.3	0.68	8.81	9.47	2	Discharge FIB sample.
5/10/2022	OF-2-SH	NA	RW	19.4	34.44	8.05	6.87	NA	No receiving water FIB sample collected, WQ only.
5/13/2022	OF-2-W2	9:00	RW	17.8	32.76	8.02	6.15	NA	No discharge FIB sample collected, outfall inundated with bay water due to high tide.
5/20/2022	OF-2-DW3-W3	7:20	Discharge	17.5	0.75	8.45	9.03	NR	Discharge FIB sample.
5/20/2022	OF-2-W3	7:15	RW	18.0	31.67	7.93	7.57	NA	Receiving water FIB sample.
5/21/2022	OF-2-DW3-WKD2	7:10	Discharge	17.3	0.84	8.71	9.58	2	Discharge FIB sample. Sample incorrectly labelled "DW3", should be "DW4".
5/21/2022	OF-2-WKD2	7:00	RW	18.1	33.59	7.96	7.52	NA	Receiving water FIB sample.
5/23/2022	OF-2-DW5-W4	9:15	Discharge	17.8	0.61	8.76	9.49	4	Discharge FIB sample.
5/23/2022	OF-2-W4	9:05	RW	18.8	32.7	7.93	6.77	NA	Receiving water FIB sample.
5/23/2022	OF-1-DW1-W4	9:35	Discharge	17.9	0.73	8.43	8.87	1	Discharge FIB sample.
5/23/2022	OF-1-W4	9:30	RW	18.7	33.65	7.97	7.8	NA	Receiving water FIB sample.

Notes: DO = dissolved oxygen; DW = dry weather flow (discharge observed from outfall); FIB = fecal indicator bacteria; gpm = gallons per minute; mg/L = milligrams per liter; NA = not applicable; NR = not recorded; OF = Outfall; ppt = parts per thousand; RW = receiving water; WQ = water quality

APPENDIX C

MICROBIOLOGY LABORATORY REPORTS



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

13 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0190

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD - SIYB Bacteria Special Study/Project:2015100116/
Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/06/22 09:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC-1-W1	22E0190-01	Seawater	05/06/22 06:35	05/06/22 09:45
MC-2-W1	22E0190-02	Seawater	05/06/22 06:45	05/06/22 09:45
OF-1-W1	22E0190-03	Seawater	05/06/22 07:50	05/06/22 09:45
OF-2-W1	22E0190-04	Seawater	05/06/22 07:20	05/06/22 09:45
OF-3-W1	22E0190-05	Seawater	05/06/22 07:00	05/06/22 09:45
FP-W1	22E0190-06	Seawater	05/06/22 06:55	05/06/22 09:45
GD-W1	22E0190-07	Seawater	05/06/22 06:00	05/06/22 09:45
BS-W1	22E0190-08	Seawater	05/06/22 07:40	05/06/22 09:45
KK-W1	22E0190-09	Seawater	05/06/22 06:10	05/06/22 09:45
NK-W1	22E0190-10	Seawater	05/06/22 08:20	05/06/22 09:45
KB-W1	22E0190-11	Seawater	05/06/22 08:30	05/06/22 09:45
REF-1-W1	22E0190-12	Seawater	05/06/22 06:25	05/06/22 09:45
A1-1-W1	22E0190-13	Seawater	05/06/22 08:00	05/06/22 09:45
A1-2-W1	22E0190-14	Seawater	05/06/22 08:05	05/06/22 09:45
A1-3-W1	22E0190-15	Seawater	05/06/22 08:10	05/06/22 09:45
FB-1-W1	22E0190-16	DI Water	05/06/22 08:45	05/06/22 09:45
BS-DUP-W1	22E0190-17	Seawater	05/06/22 07:41	05/06/22 09:45

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
MC-1-W1 (22E0190-01) Seawater Sampled: 05/06/22 06:35 Received: 05/06/22 09:45										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
MC-2-W1 (22E0190-02) Seawater Sampled: 05/06/22 06:45 Received: 05/06/22 09:45										
Total Coliforms	52	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
OF-1-W1 (22E0190-03) Seawater Sampled: 05/06/22 07:50 Received: 05/06/22 09:45										
Total Coliforms	426	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
OF-2-W1 (22E0190-04) Seawater Sampled: 05/06/22 07:20 Received: 05/06/22 09:45										
Total Coliforms	11200	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	3280	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	3440	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
OF-3-W1 (22E0190-05) Seawater Sampled: 05/06/22 07:00 Received: 05/06/22 09:45										
Total Coliforms	1080	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
FP-W1 (22E0190-06) Seawater Sampled: 05/06/22 06:55 Received: 05/06/22 09:45										
Total Coliforms	211	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FP-W1 (22E0190-06) Seawater Sampled: 05/06/22 06:55 Received: 05/06/22 09:45										
E. Coli	109	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
GD-W1 (22E0190-07) Seawater Sampled: 05/06/22 06:00 Received: 05/06/22 09:45										
Total Coliforms	97	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
BS-W1 (22E0190-08) Seawater Sampled: 05/06/22 07:40 Received: 05/06/22 09:45										
Total Coliforms	10	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	10	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
KK-W1 (22E0190-09) Seawater Sampled: 05/06/22 06:10 Received: 05/06/22 09:45										
Total Coliforms	85	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
NK-W1 (22E0190-10) Seawater Sampled: 05/06/22 08:20 Received: 05/06/22 09:45										
Total Coliforms	110	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
KB-W1 (22E0190-11) Seawater Sampled: 05/06/22 08:30 Received: 05/06/22 09:45										
Total Coliforms	75	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
KB-W1 (22E0190-11) Seawater Sampled: 05/06/22 08:30 Received: 05/06/22 09:45										
Enterococcus	ND	10	10	MPN/10 0 ml	10	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
REF-1-W1 (22E0190-12) Seawater Sampled: 05/06/22 06:25 Received: 05/06/22 09:45										
Total Coliforms	20	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
A1-1-W1 (22E0190-13) Seawater Sampled: 05/06/22 08:00 Received: 05/06/22 09:45										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
A1-2-W1 (22E0190-14) Seawater Sampled: 05/06/22 08:05 Received: 05/06/22 09:45										
Total Coliforms	63	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
A1-3-W1 (22E0190-15) Seawater Sampled: 05/06/22 08:10 Received: 05/06/22 09:45										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	
FB-1-W1 (22E0190-16) DI Water Sampled: 05/06/22 08:45 Received: 05/06/22 09:45										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	ND	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
BS-DUP-W1 (22E0190-17) Seawater Sampled: 05/06/22 07:41 Received: 05/06/22 09:45										
Total Coliforms	199	10	10	MPN/100 ml	10	CC	2050966	05/06/22 13:00 05/07/22 13:00	SM9223	
E. Coli	31	10	10	"	"	CC	"	05/06/22 13:00 05/07/22 13:00	"	
Enterococcus	10	10	10	"	"	CC	2050754	05/06/22 13:00 05/07/22 13:00	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050754

Blank (2050754-BLK1)

Prepared: 05/06/22 Analyzed: 05/07/22

Enterococcus	ND	1	1	MPN/100 ml	CC
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Batch 2050966

Blank (2050966-BLK1)

Prepared: 05/06/22 Analyzed: 05/07/22

Total Coliforms	ND	1	1	MPN/100 ml	CC
E. Coli	ND	1	1	"	CC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0190

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

- EnviroMatrix Analytical, Inc.



9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

CHAIN-OF-CUSTODY RECORD

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSID - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, X Total (Collet)	Enterococcus, X MTF X Enterolert	RELINQUISHED BY	DATE/TIME	RECEIVED BY
1	MC-1-W1	5/6/22	0635	sea water	2 / Bact	X	X	Signature: Kate Buckley	5/6/22	Signature: [Signature]
2	MC-2-W1		0645	sea water	2 / Bact	X	X	Print: Kate Buckley	9:45	Print: [Signature]
3	OF-1-W1		0750	sea water	2 / Bact	X	X	Company: Wood		Company: [Signature]
4	OF-2-W1		0720	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
5	OF-3-W1		0700	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
6	FP-W1		0655	sea water	2 / Bact	X	X	Company: [Signature]		Company: [Signature]
7	GD-W1		0600	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
8	BS-W1		0740	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
9	KK-W1		0610	sea water	2 / Bact	X	X	Company: [Signature]		Company: [Signature]
10	NK-W1		0820	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☐ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: Yes No N/A Containers Properly Preserved: Yes No N/A

Custody Seals Intact: Yes No N/A Temp @ Receipt: 4°C

COC/Labels Agree: Yes No N/A Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Collet and Enterolert methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 ml).

¹ Additional costs may apply. Please note there is a \$35 minimum charge for all clients.² EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

- EnviroMatrix



Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

CHAIN-OF-CUSTODY RECORD

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSID - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, <input checked="" type="checkbox"/> Total (Collet)	Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolent	RELINQUISHED BY	DATE/TIME	RECEIVED BY
1	KB-W1	5/6/22	0830	sea water	2 / Bact	X	X	Signature: Kate Buckley	5/6/22	Signature: [Signature]
2	REF-1-W1		0625	sea water	2 / Bact	X	X	Print: KATE BUCKLEY	9:45	Print: [Signature]
3	A1-1-W1		0800	sea water	2 / Bact	X	X	Company: WOOD		Company: [Signature]
4	A1-2-W1		0805	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
5	A1-3-W1		0810	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
6	FB-1-W1		0845	sea water	2 / Bact	X	X	Company: [Signature]		Company: [Signature]
7	RS-DUP-W1		0741	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
8								Print: [Signature]		Print: [Signature]
9								Company: [Signature]		Company: [Signature]
10								Signature: [Signature]		Signature: [Signature]

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☐ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: Yes No N/A

Containers Properly Preserved: Yes No N/A

Custody Seals Intact: Yes No N/A

Temp @ Receipt: [Signature]

Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Collet and Enterolent methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 ml).

¹ Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

² EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

11 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0218

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

Project: POSD-Bacteria Shelter Island San Diego Bay

Enclosed are the results of analyses for samples received by the laboratory on 05/07/22 10:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REF-1-WKD1	22E0218-01	Seawater	05/07/22 06:25	05/07/22 10:15
A1-1-R1-WKD1	22E0218-02	Seawater	05/07/22 06:40	05/07/22 10:15
A1-2-R1-WKD1	22E0218-03	Seawater	05/07/22 06:50	05/07/22 10:15
A1-3-R1-WKD1	22E0218-04	Seawater	05/07/22 06:55	05/07/22 10:15
A1-1-R2-WKD1	22E0218-05	Seawater	05/07/22 07:40	05/07/22 10:15
A1-2-R2-WKD1	22E0218-06	Seawater	05/07/22 07:45	05/07/22 10:15
A1-3-R2-WKD1	22E0218-07	Seawater	05/07/22 07:55	05/07/22 10:15
A1-1-R3-WKD1	22E0218-08	Seawater	05/07/22 08:40	05/07/22 10:15
A1-2-R3-WKD1	22E0218-09	Seawater	05/07/22 08:50	05/07/22 10:15
A1-3-R3-WKD1	22E0218-10	Seawater	05/07/22 08:55	05/07/22 10:15
FB-1-WKD1	22E0218-11	DI Water	05/07/22 09:15	05/07/22 10:15
A1-3-R1-DUP-WKD1	22E0218-12	Seawater	05/07/22 06:56	05/07/22 10:15
OF-2-DW1	22E0218-13	FreshWater	05/07/22 07:20	05/07/22 10:15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
REF-1-WKD1 (22E0218-01) Seawater Sampled: 05/07/22 06:25 Received: 05/07/22 10:15										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-1-R1-WKD1 (22E0218-02) Seawater Sampled: 05/07/22 06:40 Received: 05/07/22 10:15										
Total Coliforms	86	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-2-R1-WKD1 (22E0218-03) Seawater Sampled: 05/07/22 06:50 Received: 05/07/22 10:15										
Total Coliforms	86	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-3-R1-WKD1 (22E0218-04) Seawater Sampled: 05/07/22 06:55 Received: 05/07/22 10:15										
Total Coliforms	41	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-1-R2-WKD1 (22E0218-05) Seawater Sampled: 05/07/22 07:40 Received: 05/07/22 10:15										
Total Coliforms	63	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	20	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-2-R2-WKD1 (22E0218-06) Seawater Sampled: 05/07/22 07:45 Received: 05/07/22 10:15										
Total Coliforms	20	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
A1-2-R2-WKD1 (22E0218-06) Seawater Sampled: 05/07/22 07:45 Received: 05/07/22 10:15										
E. Coli	10	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-3-R2-WKD1 (22E0218-07) Seawater Sampled: 05/07/22 07:55 Received: 05/07/22 10:15										
Total Coliforms	41	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-1-R3-WKD1 (22E0218-08) Seawater Sampled: 05/07/22 08:40 Received: 05/07/22 10:15										
Total Coliforms	201	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-2-R3-WKD1 (22E0218-09) Seawater Sampled: 05/07/22 08:50 Received: 05/07/22 10:15										
Total Coliforms	201	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-3-R3-WKD1 (22E0218-10) Seawater Sampled: 05/07/22 08:55 Received: 05/07/22 10:15										
Total Coliforms	74	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	41	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
FB-1-WKD1 (22E0218-11) DI Water Sampled: 05/07/22 09:15 Received: 05/07/22 10:15										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FB-1-WKD1 (22E0218-11) DI Water Sampled: 05/07/22 09:15 Received: 05/07/22 10:15										
Enterococcus	ND	10	10	MPN/10 0 ml	10	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
A1-3-R1-DUP-WKD1 (22E0218-12) Seawater Sampled: 05/07/22 06:56 Received: 05/07/22 10:15										
Total Coliforms	120	10	10	MPN/100 ml	10	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	41	10	10	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	ND	10	10	"	"	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	
OF-2-DW1 (22E0218-13) FreshWater Sampled: 05/07/22 07:20 Received: 05/07/22 10:15										
Total Coliforms	130000	100	100	MPN/100 ml	100	AL	2050960	05/07/22 14:00 05/08/22 14:00	SM9223	
E. Coli	2130	100	100	"	"	AL	"	05/07/22 14:00 05/08/22 14:00	"	
Enterococcus	6870	10	10	"	10	AL	2050961	05/07/22 14:00 05/08/22 14:00	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2050960

Blank (2050960-BLK1)

Prepared: 05/07/22 Analyzed: 05/08/22

Total Coliforms	ND	1	1	MPN/100 ml	AL
E. Coli	ND	1	1	"	AL

Batch 2050961

Blank (2050961-BLK1)

Prepared: 05/07/22 Analyzed: 05/08/22

Enterococcus	ND	1	1	MPN/100 ml	AL
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0218

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:
Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769
Fax:
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSID - SIYB Bacteria Special Study
Please include the following information on invoices: 1) Project #: 2015100116.0002B
(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	REF-1-WKD1	5/7/22	0625	sea water	2 / Bact
2	A1-1-R1-WKD1		0640	sea water	2 / Bact
3	A1-2-R1-WKD1		0650	sea water	2 / Bact
4	A1-3-R1-WKD1		0655	sea water	2 / Bact
5	A1-1-R2-WKD1		0740	sea water	2 / Bact
6	A1-2-R2-WKD1		0745	sea water	2 / Bact
7	A1-3-R2-WKD1		0755	sea water	2 / Bact
8	A1-1-R3-WKD1		0840	sea water	2 / Bact
9	A1-2-R3-WKD1		0850	sea water	2 / Bact
10	A1-3-R3-WKD1		0855	sea water	2 / Bact

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other
Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☒ 5 day ☒ STD (7 day)
Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT
Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity
Correct Containers: Yes No N/A
Containers Properly Preserved: Yes No N/A
Custody Seals Intact: Yes No N/A
Temp @ Receipt: 6.6 MLC
Sampled By: Client EMA Autosampler

COC/Labels Agreed: Yes No N/A
NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Colliert and Enterolert methods, respectively, for each.
For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 ml).

Requested Analysis										RELINQUISHED BY		DATE/TIME		RECEIVED BY	
Coliform, <input checked="" type="checkbox"/> Total (Colliert) <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert										Signature	Signature	5/7/22	5/7/22	Signature	
										Print	Print	1015		Print	
										Company: <i>R. Schott</i>	Company: <i>EMA</i>			Company: <i>EMA</i>	
										Signature	Signature			Signature	
										Print	Print			Print	
										Company:	Company:			Company:	
										Signature	Signature			Signature	
										Print	Print			Print	
										Company:	Company:			Company:	

¹ Additional costs may apply. Please note there is a \$35 minimum charge for all clients.
² EMA reserves the right to return any samples that do not match our waste profile.
NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



EnviroMatrix Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

CHAIN-OF-CUSTODY RECORD

22E0218

EMA LOG #:
Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769 Fax:
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSD - SIYB Bacteria Special Study
Please include the following information on invoices: 1) Project #: 2015100116.0002B
(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	FB-1-WKDI *	5/17/12	0915	sea water	2 / Bact
2	AL-3-R1-DJP-WKDI	5/17/12	0656	sea water	2 / Bact
3					
4					
5					
6					
7					
8					
9					
10					

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☐ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: ☒ Yes ☐ No N/A

Custody Seals Intact: ☒ Yes ☐ No N/A

COC/Labels Agreed: ☒ Yes ☐ No N/A

Temp @ Receipt: ☐ Client ☒ EMA Autosampler

Sampled By: ☐ Client ☒ EMA Autosampler

NOTE: Please provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Colilert and Enterolert methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 ml).

Field blank is deionized water.

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

Requested Analysis										RELINQUISHED BY		DATE/TIME		RECEIVED BY	
Coliform, <input checked="" type="checkbox"/> Total (Colilert) Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert										Signature	Signature	5/17/12		Signature	
										Print	Print	10/15/12		Print	
										Company: Wood EIT	Company: EMA			Company: EMA	
										Signature	Signature			Signature	
										Print	Print			Print	
										Company:	Company:			Company:	
										Signature	Signature			Signature	
										Print	Print			Print	
										Company:	Company:			Company:	

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:
Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSD - SIYB Bacteria Special Study
Please include the following information on invoices: 1) Project #: 2015100116.00028
(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, X Total (Collet)	Enterococcus, X MTF X Enterolent	DATE/TIME	RECEIVED BY
1	FB-1-SH			sea water	2 / Bact	X	X		
2	DEF-SH			sea water	2 / Bact	X	X		
3	DE-2-DW 1 *	5/3/22	0720	fresh	2 / Bact	X	X		
4									
5									
6									
7									
8									
9									
10									

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid
Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other
Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)
Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT
Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive
Sample Integrity
Correct Containers: Yes No N/A
Containers Properly Preserved: Yes No N/A
Custody Seals Intact: Yes No N/A
Temp @ Receipt: 10.0
COC/Labels Agree: Yes No N/A
Sampled By: Client EMA Autosampler
NOTE: Please Provide SWAMP EDT. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Collet and Enterolent methods, respectively, for each.
For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 ml).
Salinity = 3.3 ppt

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.
EMA reserves the right to return any samples that do not match our waste profile.
NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

13 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0316

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD-SIYB Bacteria Special Study/Project:2015100116.0002C/
Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/10/22 11:57. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REF-1-SH	22E0316-01	Seawater	05/10/22 07:55	05/10/22 11:57
A1-1-R1-SH	22E0316-02	Seawater	05/10/22 08:15	05/10/22 11:57
A1-2-R1-SH	22E0316-03	Seawater	05/10/22 08:20	05/10/22 11:57
A1-3-R1-SH	22E0316-04	Seawater	05/10/22 08:30	05/10/22 11:57
A1-1-R2-SH	22E0316-05	Seawater	05/10/22 09:15	05/10/22 11:57
A1-2-R2-SH	22E0316-06	Seawater	05/10/22 09:25	05/10/22 11:57
A1-3-R2-SH	22E0316-07	Seawater	05/10/22 09:30	05/10/22 11:57
A1-1-R3-SH	22E0316-08	Seawater	05/10/22 10:15	05/10/22 11:57
A1-2-R3-SH	22E0316-09	Seawater	05/10/22 10:20	05/10/22 11:57
A1-3-R3-SH	22E0316-10	Seawater	05/10/22 10:30	05/10/22 11:57
FB-1-SH	22E0316-11	DI Water	05/10/22 11:00	05/10/22 11:57
A1-3-R1-DUP-SH	22E0316-12	Seawater	05/10/22 08:31	05/10/22 11:57
OF-2-DW2	22E0316-13	Freshwater	05/10/22 09:45	05/10/22 11:57

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
REF-1-SH (22E0316-01) Seawater Sampled: 05/10/22 07:55 Received: 05/10/22 11:57										
Total Coliforms	31	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-1-R1-SH (22E0316-02) Seawater Sampled: 05/10/22 08:15 Received: 05/10/22 11:57										
Total Coliforms	31	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-2-R1-SH (22E0316-03) Seawater Sampled: 05/10/22 08:20 Received: 05/10/22 11:57										
Total Coliforms	20	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-3-R1-SH (22E0316-04) Seawater Sampled: 05/10/22 08:30 Received: 05/10/22 11:57										
Total Coliforms	5170	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-1-R2-SH (22E0316-05) Seawater Sampled: 05/10/22 09:15 Received: 05/10/22 11:57										
Total Coliforms	41	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-2-R2-SH (22E0316-06) Seawater Sampled: 05/10/22 09:25 Received: 05/10/22 11:57										
Total Coliforms	85	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
A1-2-R2-SH (22E0316-06) Seawater Sampled: 05/10/22 09:25 Received: 05/10/22 11:57										
E. Coli	ND	10	10	MPN/10 0 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-3-R2-SH (22E0316-07) Seawater Sampled: 05/10/22 09:30 Received: 05/10/22 11:57										
Total Coliforms	10	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	1150	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-1-R3-SH (22E0316-08) Seawater Sampled: 05/10/22 10:15 Received: 05/10/22 11:57										
Total Coliforms	63	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	10	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-2-R3-SH (22E0316-09) Seawater Sampled: 05/10/22 10:20 Received: 05/10/22 11:57										
Total Coliforms	1010	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	63	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-3-R3-SH (22E0316-10) Seawater Sampled: 05/10/22 10:30 Received: 05/10/22 11:57										
Total Coliforms	1130	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	20	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
FB-1-SH (22E0316-11) DI Water Sampled: 05/10/22 11:00 Received: 05/10/22 11:57										
Total Coliforms	1540	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FB-1-SH (22E0316-11) DI Water Sampled: 05/10/22 11:00 Received: 05/10/22 11:57										
Enterococcus	ND	10	10	MPN/10 0 ml	10	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
A1-3-R1-DUP-SH (22E0316-12) Seawater Sampled: 05/10/22 08:31 Received: 05/10/22 11:57										
Total Coliforms	6870	10	10	MPN/100 ml	10	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	ND	10	10	"	"	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	
OF-2-DW2 (22E0316-13) Freshwater Sampled: 05/10/22 09:45 Received: 05/10/22 11:57										
Total Coliforms	48800	100	100	MPN/100 ml	100	AZ	2051038	05/10/22 13:25 05/11/22 13:25	SM9223	
E. Coli	310	100	100	"	"	AZ	"	05/10/22 13:25 05/11/22 13:25	"	
Enterococcus	4110	10	10	"	10	AL	2051037	05/10/22 13:25 05/11/22 13:25	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051037

Blank (2051037-BLK1)

Prepared: 05/10/22 Analyzed: 05/11/22

Enterococcus	ND	1	1	MPN/100 ml	AL
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Batch 2051038

Blank (2051038-BLK1)

Prepared: 05/10/22 Analyzed: 05/11/22

Total Coliforms	ND	1	1	MPN/100 ml	AZ
E. Coli	ND	1	1	"	AZ

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0316

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

2250316

Page 1 of 2

- EnviroMatrix



Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002C

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, X Total (Collet)	Enterococcus, X Total (Collet)	DATE/TIME	RECEIVED BY
1	REF-1-SH	5/10/22	0755	sea water	2 / Bact	X	X		
2	A1-1-R1-SH		0815	sea water	2 / Bact	X	X		
3	A1-2-R1-SH		0820	sea water	2 / Bact	X	X		
4	A1-3-R1-SH		0830	sea water	2 / Bact	X	X		
5	A1-1-R2-SH		0915	sea water	2 / Bact	X	X		
6	A1-2-R2-SH		0925	sea water	2 / Bact	X	X		
7	A1-3-R2-SH		0930	sea water	2 / Bact	X	X		
8	A1-1-R3-SH		1015	sea water	2 / Bact	X	X		
9	A1-2-R3-SH		1020	sea water	2 / Bact	X	X		
10	A1-3-R3-SH		1030	sea water	2 / Bact	X	X		

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☐ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: ☒ Yes ☐ No N/A

Containers Properly Preserved: ☒ Yes ☐ No N/A

Custody Seals Intact: ☒ Yes ☐ No N/A

Temp @ Receipt: 4°C

COC/Labels Agree: ☒ Yes ☐ No N/A

Sampled By: Chen EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Collet and Enterolert methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 mil).

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

CHAIN-OF-CUSTODY RECORD

EMA LOG #:
Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769
Fax:
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002C
(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	FB-1-SH	5/10/22	1100	sea water	2 / Bact
2	DUP-SH	5/10/22	0831	sea water	2 / Bact
3					
4					
5					
6					
7					
8					
9					
10					

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid
Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☐ USPS ☒ Client Drop Off ☐ Other
Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)
Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT
Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity
Correct Containers: ☒ Yes ☐ No N/A
Containers Properly Preserved: ☒ Yes ☐ No N/A
Custody Seals Intact: ☒ Yes ☐ No N/A
Temp @ Receipt: ☒ Yes ☐ No N/A
COC/Labels Agree: ☒ Yes ☐ No N/A
Sampled By: ☒ Client ☐ EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Colilert and Enterolert methods, respectively, for each.
For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 mil).

Requested Analysis										RELINQUISHED BY										DATE/TIME										RECEIVED BY									
Coliform, <input checked="" type="checkbox"/> Total (Colilert)										Signature										5/10/22 11:57										Signature									
Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert										Print: Kate Buckley																				Print: Wood									
										Company: Wood																				Company: Wood									
										Signature																				Signature									
										Print																				Print									
										Company:																				Company:									

¹ Additional costs may apply. Please note there is a \$35 minimum charge for all clients.
² EMA reserves the right to return any samples that do not match our waste profile.
NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

225021 22E0316

CHAIN-OF-CUSTODY RECORD

EnviroMatrix Analytical, Inc.

3 of 3

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #: 225021

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002C

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Sample Container # / Type
1	FB-LWKD1			sea water	27 Bact X
2	DUP-WKDT			sea water	27 Bact X
3	DF-2-DW2	5/10/22	0945	FW*	2 Bact X
4					
5					
6					
7					
8					
9					
10					

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: ☒ Yes ☐ No N/A

Containers Properly Preserved: ☒ Yes ☐ No N/A

Custody Seals Intact: ☒ Yes ☐ No N/A

Temp @ Receipt: 9°C

COC/Labels Agree: ☒ Yes ☐ No N/A

Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100ml for Total Coliform and Enterococcus using the Colilert and Enterolert methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 mil).

*** FWSample, salinity: 0.68 ppt**

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

Requested Analysis										RELINQUISHED BY		DATE/TIME		RECEIVED BY	
Coliform, <input checked="" type="checkbox"/> Total (Colilert)										Signature		Signature		Signature	
Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert										Print		Print	5/10/22	Print	
										Company:		Company:	11:54	Company:	
										Signature		Signature		Signature	
										Print		Print		Print	
										Company:		Company:		Company:	



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

18 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0454

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD-SIYB Bacteria Special Study/Project:2015100116.0002A/
Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/13/22 11:33. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC-1-W2	22E0454-01	Seawater	05/13/22 09:45	05/13/22 11:33
MC-2-W2	22E0454-02	Seawater	05/13/22 09:35	05/13/22 11:33
OF-1-W2	22E0454-03	Seawater	05/13/22 08:40	05/13/22 11:33
OF-2-W2	22E0454-04	Seawater	05/13/22 09:00	05/13/22 11:33
OF-3-W2	22E0454-05	Seawater	05/13/22 09:15	05/13/22 11:33
FP-W2	22E0454-06	Seawater	05/13/22 09:25	05/13/22 11:33
GD-W2	22E0454-07	Seawater	05/13/22 10:10	05/13/22 11:33
BS-W2	22E0454-08	Seawater	05/13/22 08:50	05/13/22 11:33
KK-W2	22E0454-09	Seawater	05/13/22 10:17	05/13/22 11:33
NK-W2	22E0454-10	Seawater	05/13/22 09:55	05/13/22 11:33
KB-W2	22E0454-11	Seawater	05/13/22 10:00	05/13/22 11:33
REF-1-W2	22E0454-12	Seawater	05/13/22 07:50	05/13/22 11:33
A1-1-W2	22E0454-13	Seawater	05/13/22 08:15	05/13/22 11:33
A1-2-W2	22E0454-14	Seawater	05/13/22 08:25	05/13/22 11:33
A1-3-W2	22E0454-15	Seawater	05/13/22 08:30	05/13/22 11:33
FB-1-W2	22E0454-16	Seawater	05/13/22 10:30	05/13/22 11:33
KK-DUP-W2	22E0454-17	Seawater	05/13/22 10:18	05/13/22 11:33

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
MC-1-W2 (22E0454-01) Seawater Sampled: 05/13/22 09:45 Received: 05/13/22 11:33										
Total Coliforms	31	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
MC-2-W2 (22E0454-02) Seawater Sampled: 05/13/22 09:35 Received: 05/13/22 11:33										
Total Coliforms	74	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
OF-1-W2 (22E0454-03) Seawater Sampled: 05/13/22 08:40 Received: 05/13/22 11:33										
Total Coliforms	1470	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	279	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
OF-2-W2 (22E0454-04) Seawater Sampled: 05/13/22 09:00 Received: 05/13/22 11:33										
Total Coliforms	2380	100	100	MPN/100 ml	100	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	200	100	100	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	1830	10	10	"	10	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
OF-3-W2 (22E0454-05) Seawater Sampled: 05/13/22 09:15 Received: 05/13/22 11:33										
Total Coliforms	146	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	20	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
FP-W2 (22E0454-06) Seawater Sampled: 05/13/22 09:25 Received: 05/13/22 11:33										
Total Coliforms	272	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FP-W2 (22E0454-06) Seawater Sampled: 05/13/22 09:25 Received: 05/13/22 11:33										
E. Coli	ND	10	10	MPN/10 0 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
GD-W2 (22E0454-07) Seawater Sampled: 05/13/22 10:10 Received: 05/13/22 11:33										
Total Coliforms	135	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	30	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
BS-W2 (22E0454-08) Seawater Sampled: 05/13/22 08:50 Received: 05/13/22 11:33										
Total Coliforms	146	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	20	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	20	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
KK-W2 (22E0454-09) Seawater Sampled: 05/13/22 10:17 Received: 05/13/22 11:33										
Total Coliforms	20	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	10	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
NK-W2 (22E0454-10) Seawater Sampled: 05/13/22 09:55 Received: 05/13/22 11:33										
Total Coliforms	52	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
KB-W2 (22E0454-11) Seawater Sampled: 05/13/22 10:00 Received: 05/13/22 11:33										
Total Coliforms	73	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
KB-W2 (22E0454-11) Seawater Sampled: 05/13/22 10:00 Received: 05/13/22 11:33										
Enterococcus	ND	10	10	MPN/10 0 ml	10	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
REF-1-W2 (22E0454-12) Seawater Sampled: 05/13/22 07:50 Received: 05/13/22 11:33										
Total Coliforms	63	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
A1-1-W2 (22E0454-13) Seawater Sampled: 05/13/22 08:15 Received: 05/13/22 11:33										
Total Coliforms	20	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	20	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
A1-2-W2 (22E0454-14) Seawater Sampled: 05/13/22 08:25 Received: 05/13/22 11:33										
Total Coliforms	10	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
A1-3-W2 (22E0454-15) Seawater Sampled: 05/13/22 08:30 Received: 05/13/22 11:33										
Total Coliforms	10	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	
FB-1-W2 (22E0454-16) Seawater Sampled: 05/13/22 10:30 Received: 05/13/22 11:33										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
KK-DUP-W2 (22E0454-17) Seawater Sampled: 05/13/22 10:18 Received: 05/13/22 11:33										
Total Coliforms	31	10	10	MPN/100 ml	10	AL	2051322	05/13/22 15:30 05/14/22 15:30	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/13/22 15:30 05/14/22 15:30	"	
Enterococcus	ND	10	10	"	"	AL	2051323	05/13/22 15:30 05/14/22 15:30	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2051322

Blank (2051322-BLK1)

Prepared: 05/13/22 Analyzed: 05/14/22

Total Coliforms	ND	1	1	MPN/100 ml	AL
E. Coli	ND	1	1	"	AL

Batch 2051323

Blank (2051323-BLK1)

Prepared: 05/13/22 Analyzed: 05/14/22

Enterococcus	ND	1	1	MPN/100 ml	AL
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0454

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

- EnviroMatrix



Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002A.EMA

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, <input checked="" type="checkbox"/> Total (Collet)	Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert	RELINQUISHED BY	DATE/TIME	RECEIVED BY
1	MC-1-W2	5/13/22	0945	sea water	2 / Bact	X	X	Signature: [Signature]	5/13/22	Signature: [Signature]
2	MC-2-W2		0935	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
3	OF-1-W2		0840	sea water	2 / Bact	X	X	Company: [Signature]	11:33	Company: [Signature]
4	OF-2-W2		0900	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
5	OF-3-W2		0915	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
6	FP-W2		0925	sea water	2 / Bact	X	X	Company: [Signature]		Company: [Signature]
7	GD-W2		1010	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]
8	BS-W2		0850	sea water	2 / Bact	X	X	Print: [Signature]		Print: [Signature]
9	KK-W2		1017	sea water	2 / Bact	X	X	Company: [Signature]		Company: [Signature]
10	NK-W2		0955	sea water	2 / Bact	X	X	Signature: [Signature]		Signature: [Signature]

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: ☒ Yes ☐ No N/A

Custody Seals Intact: ☒ Yes ☐ No N/A

COC/Labels Agree: ☒ Yes ☐ No N/A

Temp @ Receipt: 4 °C

Containers Properly Preserved: ☒ Yes ☐ No N/A

Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Collet and Enterolert methods, respectively, for each.

For each sample, conduct a 3x dilution for reportable MPN (MDL 10 - 2.4 mil).

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

27 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0691

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD-SIYB Bacteria Special Study/
Project:2015100116.0002A.EMA/Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/20/22 10:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC-1-W3	22E0691-01	Seawater	05/20/22 06:30	05/20/22 10:35
MC-2-W3	22E0691-02	Seawater	05/20/22 06:40	05/20/22 10:35
OF-1-W3	22E0691-03	Seawater	05/20/22 07:50	05/20/22 10:35
OF-2-W3	22E0691-04	Seawater	05/20/22 07:15	05/20/22 10:35
OF-3-W3	22E0691-05	Seawater	05/20/22 06:55	05/20/22 10:35
FP-W3	22E0691-06	Seawater	05/20/22 06:45	05/20/22 10:35
GD-W3	22E0691-07	Seawater	05/20/22 06:05	05/20/22 10:35
BS-W3	22E0691-08	Seawater	05/20/22 07:40	05/20/22 10:35
KK-W3	22E0691-09	Seawater	05/20/22 06:15	05/20/22 10:35
NK-W3	22E0691-10	Seawater	05/20/22 08:25	05/20/22 10:35
KB-W3	22E0691-11	Seawater	05/20/22 08:35	05/20/22 10:35
REF-1-W3	22E0691-12	Seawater	05/20/22 05:55	05/20/22 10:35
A1-1-W3	22E0691-13	Seawater	05/20/22 08:00	05/20/22 10:35
A1-2-W3	22E0691-14	Seawater	05/20/22 08:10	05/20/22 10:35
A1-3-W3	22E0691-15	Seawater	05/20/22 08:15	05/20/22 10:35
FB-W3	22E0691-16	Blank Water	05/20/22 08:50	05/20/22 10:35
OF-3-DUP-W3	22E0691-17	Seawater	05/20/22 07:00	05/20/22 10:35
FB-Test	22E0691-18	Blank Water	05/20/22 08:55	05/20/22 10:35
OF-2-DW3	22E0691-19	Fresh Water	05/20/22 07:20	05/20/22 10:35

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
MC-1-W3 (22E0691-01) Seawater Sampled: 05/20/22 06:30 Received: 05/20/22 10:35										
Total Coliforms	197	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	30	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
MC-2-W3 (22E0691-02) Seawater Sampled: 05/20/22 06:40 Received: 05/20/22 10:35										
Total Coliforms	201	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	98	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
OF-1-W3 (22E0691-03) Seawater Sampled: 05/20/22 07:50 Received: 05/20/22 10:35										
Total Coliforms	537	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	41	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	10	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
OF-2-W3 (22E0691-04) Seawater Sampled: 05/20/22 07:15 Received: 05/20/22 10:35										
Total Coliforms	54800	100	100	MPN/100 ml	100	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	11000	100	100	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	6970	100	100	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
OF-3-W3 (22E0691-05) Seawater Sampled: 05/20/22 06:55 Received: 05/20/22 10:35										
Total Coliforms	368	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	20	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	10	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
FP-W3 (22E0691-06) Seawater Sampled: 05/20/22 06:45 Received: 05/20/22 10:35										
Total Coliforms	292	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FP-W3 (22E0691-06) Seawater Sampled: 05/20/22 06:45 Received: 05/20/22 10:35										
E. Coli	20	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
GD-W3 (22E0691-07) Seawater Sampled: 05/20/22 06:05 Received: 05/20/22 10:35										
Total Coliforms	256	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
BS-W3 (22E0691-08) Seawater Sampled: 05/20/22 07:40 Received: 05/20/22 10:35										
Total Coliforms	175	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	20	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
KK-W3 (22E0691-09) Seawater Sampled: 05/20/22 06:15 Received: 05/20/22 10:35										
Total Coliforms	110	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	10	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
NK-W3 (22E0691-10) Seawater Sampled: 05/20/22 08:25 Received: 05/20/22 10:35										
Total Coliforms	328	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	223	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	226	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
KB-W3 (22E0691-11) Seawater Sampled: 05/20/22 08:35 Received: 05/20/22 10:35										
Total Coliforms	836	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	512	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
KB-W3 (22E0691-11) Seawater Sampled: 05/20/22 08:35 Received: 05/20/22 10:35										
Enterococcus	223	10	10	MPN/100 ml	10	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
REF-1-W3 (22E0691-12) Seawater Sampled: 05/20/22 05:55 Received: 05/20/22 10:35										
Total Coliforms	97	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
A1-1-W3 (22E0691-13) Seawater Sampled: 05/20/22 08:00 Received: 05/20/22 10:35										
Total Coliforms	327	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	52	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
A1-2-W3 (22E0691-14) Seawater Sampled: 05/20/22 08:10 Received: 05/20/22 10:35										
Total Coliforms	282	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	41	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
A1-3-W3 (22E0691-15) Seawater Sampled: 05/20/22 08:15 Received: 05/20/22 10:35										
Total Coliforms	189	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	20	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	10	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
FB-W3 (22E0691-16) Blank Water Sampled: 05/20/22 08:50 Received: 05/20/22 10:35										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
OF-3-DUP-W3 (22E0691-17) Seawater Sampled: 05/20/22 07:00 Received: 05/20/22 10:35										
Total Coliforms	98	10	10	MPN/100 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	10	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	20	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
FB-Test (22E0691-18) Blank Water Sampled: 05/20/22 08:55 Received: 05/20/22 10:35										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	ND	10	10	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	ND	10	10	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	
OF-2-DW3 (22E0691-19) Fresh Water Sampled: 05/20/22 07:20 Received: 05/20/22 10:35										
Total Coliforms	365000	1000	1000	MPN/100 ml	1000	AL	2052026	05/20/22 12:00 05/21/22 12:00	SM9223	
E. Coli	122000	1000	1000	"	"	AL	"	05/20/22 12:00 05/21/22 12:00	"	
Enterococcus	33600	1000	1000	"	"	AL	2052025	05/20/22 12:00 05/21/22 12:00	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2052025

Blank (2052025-BLK1)

Prepared: 05/20/22 Analyzed: 05/21/22

Enterococcus	ND	1	1	MPN/100 ml	AL
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Batch 2052026

Blank (2052026-BLK1)

Prepared: 05/20/22 Analyzed: 05/21/22

Total Coliforms	ND	1	1	MPN/100 ml	AL
E. Coli	ND	1	1	"	AL

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0691

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

- EnviroMatrix

Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002A.EMA

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Coliform, <input checked="" type="checkbox"/> Total (ColiForm)	Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert	DATE/TIME	SIGNATURE	RECEIVED BY
1	KB-W3	5/20/2022	0835	sea water	2 / Bact	X	X			
2	REF-1-W3	5/20/2022	0855	sea water	2 / Bact	X	X			
3	A1-1-W3	5/20/2022	0800	sea water	2 / Bact	X	X			
4	A1-2-W3	5/20/2022	0810	sea water	2 / Bact	X	X			
5	A1-3-W3	5/20/2022	0815	sea water	2 / Bact	X	X			
6	FB-W3	5/20/2022	0850	Blank water	2 / Bact	X	X			
7	OF-3-DUP-W3	5/20/2022	0700	sea water	2 / Bact	X	X			
8	FB-Test	5/20/22	0855	Blank	"	X	X			
9										
10										

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: ☒ Yes ☐ No N/A

Custody Seals Intact: ☒ Yes ☐ No N/A

COC/Labels Agree: ☒ Yes ☐ No N/A

Temp @ Receipt: 19.5°C

Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the ColiForm and Enterolert methods, respectively, for each.

For each sample, conduct a 2x dilution for reportable MPN (RL 10 - 2.4 mil).

Signature: [Signature] Print: Kate Buckley Company: Wood PLC

Signature: [Signature] Print: [Signature] Company: [Signature]

Signature: [Signature] Print: [Signature] Company: [Signature]

Signature: [Signature] Print: [Signature] Company: [Signature]

Signature: [Signature] Print: [Signature] Company: [Signature]

¹Additional costs may apply. Please note there is a \$35 minimum charge for all clients.²EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

27 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0720

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD-SIYB Bacteria Special Study/
Project:2015100116.0002B.EMA/Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/21/22 10:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REF-1-WKD2	22E0720-01	Seawater	05/21/22 06:15	05/21/22 10:30
A1-1-R1-WKD2	22E0720-02	Seawater	05/21/22 06:35	05/21/22 10:30
A1-2-R1-WKD2	22E0720-03	Seawater	05/21/22 06:45	05/21/22 10:30
A1-3-R1-WKD2	22E0720-04	Seawater	05/21/22 06:50	05/21/22 10:30
A1-1-R2-WKD2	22E0720-05	Seawater	05/21/22 07:35	05/21/22 10:30
A1-2-R2-WKD2	22E0720-06	Seawater	05/21/22 07:50	05/21/22 10:30
A1-3-R2-WKD2	22E0720-07	Seawater	05/21/22 08:00	05/21/22 10:30
A1-1-R3-WKD2	22E0720-08	Seawater	05/21/22 08:35	05/21/22 10:30
A1-2-R3-WKD2	22E0720-09	Seawater	05/21/22 08:45	05/21/22 10:30
A1-3-R3-WKD2	22E0720-10	Seawater	05/21/22 08:50	05/21/22 10:30
FB-WKD2	22E0720-11	Blank Water	05/21/22 09:00	05/21/22 10:30
A1-2-R2-DUP-WKD2	22E0720-12	Seawater	05/21/22 07:51	05/21/22 10:30
OF2-WKD2	22E0720-13	Seawater	05/21/22 07:00	05/21/22 10:30
OF2-DW-3	22E0720-14	Seawater	05/21/22 07:10	05/21/22 10:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
REF-1-WKD2 (22E0720-01) Seawater Sampled: 05/21/22 06:15 Received: 05/21/22 10:30										
Total Coliforms	31	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	10	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-1-R1-WKD2 (22E0720-02) Seawater Sampled: 05/21/22 06:35 Received: 05/21/22 10:30										
Total Coliforms	63	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	10	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-2-R1-WKD2 (22E0720-03) Seawater Sampled: 05/21/22 06:45 Received: 05/21/22 10:30										
Total Coliforms	63	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	20	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	ND	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-3-R1-WKD2 (22E0720-04) Seawater Sampled: 05/21/22 06:50 Received: 05/21/22 10:30										
Total Coliforms	74	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	ND	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-1-R2-WKD2 (22E0720-05) Seawater Sampled: 05/21/22 07:35 Received: 05/21/22 10:30										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	ND	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-2-R2-WKD2 (22E0720-06) Seawater Sampled: 05/21/22 07:50 Received: 05/21/22 10:30										
Total Coliforms	52	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
A1-2-R2-WKD2 (22E0720-06) Seawater Sampled: 05/21/22 07:50 Received: 05/21/22 10:30										
E. Coli	ND	10	10	MPN/10 0 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
Enterococcus	ND	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-3-R2-WKD2 (22E0720-07) Seawater Sampled: 05/21/22 08:00 Received: 05/21/22 10:30										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	41	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-1-R3-WKD2 (22E0720-08) Seawater Sampled: 05/21/22 08:35 Received: 05/21/22 10:30										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	10	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-2-R3-WKD2 (22E0720-09) Seawater Sampled: 05/21/22 08:45 Received: 05/21/22 10:30										
Total Coliforms	41	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	20	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-3-R3-WKD2 (22E0720-10) Seawater Sampled: 05/21/22 08:50 Received: 05/21/22 10:30										
Total Coliforms	410	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	201	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	40	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
FB-WKD2 (22E0720-11) Blank Water Sampled: 05/21/22 09:00 Received: 05/21/22 10:30										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	ND	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FB-WKD2 (22E0720-11) Blank Water Sampled: 05/21/22 09:00 Received: 05/21/22 10:30										
Enterococcus	ND	10	10	MPN/10 0 ml	10	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
A1-2-R2-DUP-WKD2 (22E0720-12) Seawater Sampled: 05/21/22 07:51 Received: 05/21/22 10:30										
Total Coliforms	52	10	10	MPN/100 ml	10	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	10	10	10	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	10	10	10	"	"	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
OF2-WKD2 (22E0720-13) Seawater Sampled: 05/21/22 07:00 Received: 05/21/22 10:30										
Total Coliforms	58800	1000	1000	MPN/100 ml	1000	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	3100	1000	1000	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	19900	10	10	"	10	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	
OF2-DW-3 (22E0720-14) Seawater Sampled: 05/21/22 07:10 Received: 05/21/22 10:30										
Total Coliforms	411000	1000	1000	MPN/100 ml	1000	CC	2052348	05/21/22 12:30 05/22/22 12:30	SM9223	
E. Coli	2000	1000	1000	"	"	CC	"	05/21/22 12:30 05/22/22 12:30	"	
Enterococcus	41100	100	100	"	100	CC	2052349	05/21/22 12:30 05/22/22 12:30	Idexx	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2052348

Blank (2052348-BLK1)

Prepared: 05/21/22 Analyzed: 05/22/22

Total Coliforms	ND	1	1	MPN/100 ml	CC
E. Coli	ND	1	1	"	CC

Batch 2052349

Blank (2052349-BLK1)

Prepared: 05/21/22 Analyzed: 05/22/22

Enterococcus	ND	1	1	MPN/100 ml	CC
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0720

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

22E0720

CHAIN-OF-CUSTODY RECORD



9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:

Client: Wood PLC

Attn: Kate Buckley, kate.buckley@woodplc.com

Samplers(s): Wood

Address: 9177 Sky Park Ct, San Diego, CA 92123

Phone: 760-420-5769

Fax:

Email: kate.buckley@woodplc.com

Billing Address: 9177 Sky Park Ct, San Diego, CA 92123

Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002B.EMA

(2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	REF-1-WKD2	5/21/2022	0615	sea water	1 / Bact
2	A1-1-R1-WKD2	5/21/2022	0635	sea water	1 / Bact
3	A1-2-R1-WKD2	5/21/2022	0645	sea water	1 / Bact
4	A1-3-R1-WKD2	5/21/2022	0650	sea water	1 / Bact
5	A1-1-R2-WKD2	5/21/2022	0735	sea water	1 / Bact
6	A1-2-R2-WKD2	5/21/2022	0750	sea water	1 / Bact
7	A1-3-R2-WKD2	5/21/2022	0800	sea water	1 / Bact
8	A1-1-R3-WKD2	5/21/2022	0835	sea water	1 / Bact
9	A1-2-R3-WKD2	5/21/2022	0845	sea water	1 / Bact
10	A1-3-R3-WKD2	5/21/2022	0850	sea water	1 / Bact

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☒ FedEx ☐ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: Yes No N/A

Containers Properly Preserved: Yes No N/A

Custody Seals Intact: Yes No N/A

Temp @ Receipt: 4°C

COC/Labels Agree: Yes No N/A

Sampled By: Client, EMA Autosampler

NOTE: Please Provide SWAMP EDD: Please report true numeric results between 10-2,400,000 MPN/100mL for Total Coliform and Enterococcus using the Colliert and Enterolert methods, respectively, for each.

For each sample, conduct a 2x dilution for reportable MPN (RL 10 - 2.4 mil).

¹Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

²EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

CHAIN-OF-CUSTODY RECORD



— **EnviroMatrix** Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:					
Client: Wood PLC					
Attn: Kate Buckley, kate.buckley@woodplc.com					
Samplers(s): Wood					
Address: 9177 Sky Park Ct, San Diego, CA 92123					
Phone: 760-420-5769	Fax:				
Email: kate.buckley@woodplc.com					
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123					
Project ID: POSD - SIYB Bacteria Special Study					
Please include the following information on invoices: 1) Project #: 2015100116.0002B.EMA					
(2) PO #: N/A (3) Org: 3151 (4) GL: 573000					
ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	FB-WKD2	5/21/2022	0900	Blank water	↓ / Bact
2	A1-2-R2-DUP-WKD2	5/21/2022	0751	sea water	↓ / Bact
3	0F2 - WKD2	5/21/2022	0700	"	"
4	0F2 - DW-3	5/21/2022	0710	"	"
5					
6					
7					
8					
9					
10					
Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water					
W/W = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid					
Shipped By: <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client Drop Off <input type="checkbox"/> Other					
Turn-Around-Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> STD (7 day)					
Reporting Requirements: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> Excel <input type="checkbox"/> Geotracker/EDF <input type="checkbox"/> Hard Copy <input type="checkbox"/> EDT					
Sample Disposal: <input checked="" type="checkbox"/> By Laboratory <input type="checkbox"/> Return to Client: P/U or Delivery <input type="checkbox"/> Archive					
Sample Integrity					
Correct Containers: Yes/No N/A					
Containers Properly Preserved: Yes No N/A					
Custody Seals Intact: Yes No N/A					
Temp @ Receipt: 40-42°F					
COC/Labels Agree: Yes No N/A					
Sampled By: Client EMA Autosampler					
NOTE: Please Provide SWAMP EDD. Please report true numeric results for 10-2,400,000 MPN/100mL for					
For each sample, conduct a 2x dilution for reportable MPN (RL 10 - 2.4 mil).					

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

²EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



Environmental Laboratory Network, Inc.
dba EnviroMatrix Analytical

27 May 2022

Wood Environment & Infrastructure Solutions, Inc.

EMA Log #: 22E0758

Attn: Kate Buckley

9177 Sky Park Court

San Diego, CA 92123

**Project: POSD-Bacteria Shelter Island San Diego Bay/POSD-SIYB Bacteria Special Study/
Project:2015100116.0002A.EMA/Org:3151/GL:573000**

Enclosed are the results of analyses for samples received by the laboratory on 05/23/22 11:43. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Environmental Laboratory Network, Inc. certifies that this data is in compliance both technically and for completeness.

Jenny Douglas

President/CEO

Environmental Laboratory Network, Inc.

dba EnviroMatrix Analytical

CA ELAP Certification #: 2564

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MC-1-W4	22E0758-01	Seawater	05/23/22 08:30	05/23/22 11:43
MC-2-W4	22E0758-02	Seawater	05/23/22 08:35	05/23/22 11:43
OF-1-W4	22E0758-03	Seawater	05/23/22 09:30	05/23/22 11:43
OF-2-W4	22E0758-04	Seawater	05/23/22 09:05	05/23/22 11:43
OF-3-W4	22E0758-05	Seawater	05/23/22 08:50	05/23/22 11:43
FP-W4	22E0758-06	Seawater	05/23/22 08:45	05/23/22 11:43
GD-W4	22E0758-07	Seawater	05/23/22 08:10	05/23/22 11:43
BS-W4	22E0758-08	Seawater	05/23/22 09:20	05/23/22 11:43
KK-W4	22E0758-09	Seawater	05/23/22 08:20	05/23/22 11:43
NK-W4	22E0758-10	Seawater	05/23/22 10:10	05/23/22 11:43
KB-W4	22E0758-11	Seawater	05/23/22 10:20	05/23/22 11:43
REF-1-W4	22E0758-12	Seawater	05/23/22 08:00	05/23/22 11:43
A1-1-W4	22E0758-13	Seawater	05/23/22 09:45	05/23/22 11:43
A1-2-W4	22E0758-14	Seawater	05/23/22 09:55	05/23/22 11:43
A1-3-W4	22E0758-15	Seawater	05/23/22 10:00	05/23/22 11:43
FB-W4	22E0758-16	Blank Water	05/23/22 10:25	05/23/22 11:43
A1-1-DUP-W4	22E0758-17	Sea Water	05/23/22 09:46	05/23/22 11:43
OF-2-DW-5	22E0758-18	Fresh Water	05/23/22 09:15	05/23/22 11:43
OF-1-DW-1	22E0758-19	Fresh Water	05/23/22 09:35	05/23/22 11:43

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
MC-1-W4 (22E0758-01) Seawater Sampled: 05/23/22 08:30 Received: 05/23/22 11:43										
Total Coliforms	63	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
MC-2-W4 (22E0758-02) Seawater Sampled: 05/23/22 08:35 Received: 05/23/22 11:43										
Total Coliforms	134	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	41	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
OF-1-W4 (22E0758-03) Seawater Sampled: 05/23/22 09:30 Received: 05/23/22 11:43										
Total Coliforms	193	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	31	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
OF-2-W4 (22E0758-04) Seawater Sampled: 05/23/22 09:05 Received: 05/23/22 11:43										
Total Coliforms	2010	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	259	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	1290	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
OF-3-W4 (22E0758-05) Seawater Sampled: 05/23/22 08:50 Received: 05/23/22 11:43										
Total Coliforms	1370	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	20	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
FP-W4 (22E0758-06) Seawater Sampled: 05/23/22 08:45 Received: 05/23/22 11:43										
Total Coliforms	697	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
FP-W4 (22E0758-06) Seawater Sampled: 05/23/22 08:45 Received: 05/23/22 11:43										
E. Coli	41	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
GD-W4 (22E0758-07) Seawater Sampled: 05/23/22 08:10 Received: 05/23/22 11:43										
Total Coliforms	201	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	20	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
BS-W4 (22E0758-08) Seawater Sampled: 05/23/22 09:20 Received: 05/23/22 11:43										
Total Coliforms	122	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	10	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
KK-W4 (22E0758-09) Seawater Sampled: 05/23/22 08:20 Received: 05/23/22 11:43										
Total Coliforms	20	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
NK-W4 (22E0758-10) Seawater Sampled: 05/23/22 10:10 Received: 05/23/22 11:43										
Total Coliforms	145	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	30	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	10	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
KB-W4 (22E0758-11) Seawater Sampled: 05/23/22 10:20 Received: 05/23/22 11:43										
Total Coliforms	132	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	85	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
KB-W4 (22E0758-11) Seawater Sampled: 05/23/22 10:20 Received: 05/23/22 11:43										
Enterococcus	10	10	10	MPN/100 ml	10	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
REF-1-W4 (22E0758-12) Seawater Sampled: 05/23/22 08:00 Received: 05/23/22 11:43										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
A1-1-W4 (22E0758-13) Seawater Sampled: 05/23/22 09:45 Received: 05/23/22 11:43										
Total Coliforms	145	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	10	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
A1-2-W4 (22E0758-14) Seawater Sampled: 05/23/22 09:55 Received: 05/23/22 11:43										
Total Coliforms	52	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	20	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
A1-3-W4 (22E0758-15) Seawater Sampled: 05/23/22 10:00 Received: 05/23/22 11:43										
Total Coliforms	74	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
FB-W4 (22E0758-16) Blank Water Sampled: 05/23/22 10:25 Received: 05/23/22 11:43										
Total Coliforms	ND	10	10	MPN/10 0 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	ND	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
 Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Microbiological Parameters by Standard Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Analyst	Batch	Sample Prepared Sample Analyzed	Method	Notes
A1-1-DUP-W4 (22E0758-17) Sea Water Sampled: 05/23/22 09:46 Received: 05/23/22 11:43										
Total Coliforms	75	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	10	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	ND	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
OF-2-DW-5 (22E0758-18) Fresh Water Sampled: 05/23/22 09:15 Received: 05/23/22 11:43										
Total Coliforms	24200	10	10	MPN/100 ml	10	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	1010	10	10	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	5790	10	10	"	"	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	
OF-1-DW-1 (22E0758-19) Fresh Water Sampled: 05/23/22 09:35 Received: 05/23/22 11:43										
Total Coliforms	435000	1000	1000	MPN/100 ml	1000	AZ	2052354	05/23/22 13:30 05/24/22 13:30	SM9223	
E. Coli	13400	1000	1000	"	"	AZ	"	05/23/22 13:30 05/24/22 13:30	"	
Enterococcus	3870	10	10	"	10	AL	2052355	05/23/22 13:30 05/24/22 13:30	Idexx	

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Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Microbiological Parameters by Standard Methods - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Analyst	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2052354

Blank (2052354-BLK1)

Prepared: 05/23/22 Analyzed: 05/24/22

Total Coliforms	ND	1	1	MPN/100 ml	AZ
E. Coli	ND	1	1	"	AZ

Batch 2052355

Blank (2052355-BLK1)

Prepared: 05/23/22 Analyzed: 05/24/22

Enterococcus	ND	1	1	MPN/100 ml	AL
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: Wood Environment & Infrastructure Solutions, Inc.
Project Name: POSD-Bacteria Shelter Island San Diego Bay

EMA Log #: 22E0758

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis (if indicated in units column)

RPD Relative Percent Difference

MDL Method detection limit (indicated per client's request)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

— EnviroMatrix



Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	MC-1-W4	5/23/2022	0830	sea water	1 / Bact
2	MC-2-W4	5/23/2022	0835	sea water	1 / Bact
3	OF-1-W4	5/23/2022	0930	sea water	1 / Bact
4	OF-2-W4	5/23/2022	0905	sea water	1 / Bact
5	OF-3-W4	5/23/2022	0850	sea water	1 / Bact
6	FP-W4	5/23/2022	0845	sea water	1 / Bact
7	GD-W4	5/23/2022	0910	sea water	1 / Bact
8	BS-W4	5/23/2022	0920	sea water	1 / Bact
9	KK-W4	5/23/2022	0820	sea water	1 / Bact
10	NK-W4	5/23/2022	1910	sea water	1 / Bact

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid
 Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☒ USPS ☒ Client Drop Off ☐ Other
 Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☒ 5 day ☒ STD (7 day)
 Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT
 Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Sample Integrity

Correct Containers: Yes No/A
 Custody Seals Intact: Yes No *NA*
 COC/Labels Agree: Yes No N/A

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 10-2,400,000 MPN/100mL for 10-2.4 mil.

For each sample, conduct a 2x dilution for reportable MPN (RL 10 - 2.4 mil).

Additional costs may apply. Please note there is a \$35 minimum charge for all clients.

Minimum charge for all clients.

EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.



CHAIN-OF-CUSTODY RECORD 2250788 - EnviroMatrix Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:
Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769
Fax:
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSD - SIYB Bacteria Special Study

Please include the following information on invoices: 1) Project #: 2015100116.0002A.EMA (2) PO #: N/A (3) Org: 3151 (4) GL: 573000

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	KB-W4	5/23/2022	1020	sea water	1 / Bact
2	REF-1-W4	5/23/2022	1030	sea water	1 / Bact
3	A1-1-W4	5/23/2022	1045	sea water	1 / Bact
4	A1-2-W4	5/23/2022	1055	sea water	1 / Bact
5	A1-3-W4	5/23/2022	1000	sea water	1 / Bact
6	FB-W4	5/23/2022	1025	Blank water	1 / Bact
7	QA-3-DUP-W4	5/23/2022	1046	sea water	1 / Bact
8	AD				
9					
10					

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: ☐ Courier ☐ UPS ☐ FedEx ☐ USPS ☒ Client Drop Off ☐ Other

Turn-Around-Time: ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day ☐ 4 day ☐ 5 day ☒ STD (7 day)

Reporting Requirements: ☐ Fax ☒ PDF ☒ Excel ☐ Geotracker/EDF ☐ Hard Copy ☐ EDT

Sample Disposal: ☒ By Laboratory ☐ Return to Client: P/U or Delivery ☐ Archive

Correct Containers: Yes ☒ No ☐ N/A

Custody Seals Intact: Yes ☒ No ☐ N/A

COC/Labels Agreed: Yes ☒ No ☐ N/A

Sampled By: Client EMA Autosampler

NOTE: Please Provide SWAMP EDD. Please report true numeric results between 102,400,000 MPN/100mL for Total Coliform and Enterococcus using the Colilert and Enterocert methods, respectively, for each.

For each sample, conduct a 2x dilution for reportable MPN (RL 10 - 2.4 ml).

Requested Analysis

Coliform, <input checked="" type="checkbox"/> Total (Colilert)	Enterococcus, <input type="checkbox"/> MTF <input checked="" type="checkbox"/> Enterolert	DELINQUISHED DAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



CHAIN-OF-CUSTODY RECORD - EnviroMatrix Analytical, Inc.

9590 Chesapeake Dr, Suite 5, San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #: 22E0758

Client: Wood PLC
Attn: Kate Buckley, kate.buckley@woodplc.com
Samplers(s): Wood
Address: 9177 Sky Park Ct, San Diego, CA 92123
Phone: 760-420-5769
Fax:
Email: kate.buckley@woodplc.com
Billing Address: 9177 Sky Park Ct, San Diego, CA 92123
Project ID: POSD - SIYB Bacteria Special Study

Requested Analysis

Requested Analysis										Requested Analysis									
</																			